

Phase One Environmental Site Assessment

70 Mississauga Road South and 181
Lakeshore Road West,
Port Credit, Ontario



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Project No. 122120255

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PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

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Executive Summary
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1.0 EXECUTIVE SUMMARY

Stantec Consulting Ltd. (Stantec) was retained by Port Credit West Village Partners Inc. to conduct a Phase One Environmental Site Assessment (Phase One ESA) of former Imperial Oil Limited (IOL) Lands located at 70 Mississauga Road South and 181 Lakeshore Road West, Mississauga, Ontario, herein referred to as the "Phase One Property". The Phase One ESA was conducted for Port Credit Village Partners Inc., in support of a Record of Site Condition (RSC) in accordance with Ontario Regulation 153/04 (O.Reg. 153/04). It further supports applications for official plan, zoning by-law amendments and draft plan of subdivision.

The Phase One property is currently vacant, with a vacant car wash and kiosk building on the northern corner of the Site (former gasoline service station property), a vacant fire hall building (also previously used as office space), a sea container, a former American Petroleum Institute (API) separator, Shale Pit, and a portion of the Waterfront Trail. Stantec understands the intended property use for the Site will include residential, parkland, commercial, and community (roadway) uses and therefore a RSC is required in accordance with O.Reg. 153/04 due to the proposed change in land use.

The purpose of the Phase One ESA was to identify Potentially Contaminating Activities (PCAs) within 250 m of the Phase One Property (Phase One Study Area) and assess if these activities have contributed to Areas of Potential Environmental Concern (APECs) on the Phase One Property.

A location map is provided as **Figure 1**, **Figure 2** shows the Phase One Study Area, **Figure 3** shows historical site details, **Figure 4** shows the current monitoring wells on-site, **Figure 5** shows current Site features, and **Figure 6** shows the APECs identified on the Phase One Property. A topographic map of the Phase One Study area is included on **Figure 1** and in **Appendix D-2**.

Phase One Property Information

The Phase One Property is in an area of mixed commercial and residential land use on the southwestern corner of Mississauga Road South and Lakeshore Road West, and is bounded by Lakeshore Road West to the northwest, Mississauga Road South to the northeast, Lake Ontario, and waterfront lands under separate ownership to the southeast, and residential dwellings to the southwest along Pine Avenue South. The Phase One Property has an area of approximately 29.4 hectares (72.8 acres).

At the time of the site reconnaissance, July 17, 2017, the majority of the Phase One Property was not in use, with the exception of the portion of the Waterfront Trail that is located within a portion of the southeastern boundary of the Phase One Property.

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A brick yard was reportedly established on the Phase One Property in 1888 (Port Credit Weekly Focus 65, 1965). The use of the Phase One Property prior to 1888 is unknown; however, a historical title search indicated the property was owned by private individuals between 1850 until transfer to Peel General Manufacturing Co. in 1884. Six buildings of unknown use were identified on the Phase One Property in the 1910 fire insurance plan (FIP), three of these buildings were shown on the southeastern portion of the Phase One Property along Joseph Street and were consistent with the outline of buildings shown on the 1928 FIP. The brick yard was active in the southeastern portion of the Phase One Property on the 1928 FIP.

According to historical records, an oil and petrochemical refinery operated on the Phase One Property between 1933 and 1985. The historical tanks and infrastructure associated with refinery operations were largely decommissioned by 1990, with the exception of the tanks and associated infrastructure located south and southeast of the Shale Pit, which were decommissioned by 1995.

The first developed land use of the Phase One Property was therefore considered to be 1884, when Peel General Manufacturing Co. purchased the Phase One Property from a private owner.

Conclusions and Recommendations

In assessing and developing the conceptual site model (CSM) for the Phase One Property and the surrounding Phase One Study Area, the physical characteristics/pathways identified in **Table 1** were evaluated to assess whether the PCAs contributed to one or more APECs on the Phase One Property.

Table 1 Conceptual Site Model

Physical Characteristics/ Pathways	Description
Subsurface Soils	<p>Based on information obtained from the Ontario Geological Survey (OGS) surficial geology map (OGS Map 2556), native surficial soils on the Phase One Property and in the Phase One Study Area are mapped as glaciolacustrine deposits, which are reported to contain sand, gravel, and gravelly sand, nearshore and beach deposits.</p> <p>Stantec's 2017 due diligence investigation outlined the advancement of 26 boreholes completed as monitoring wells in January and February 2017. Borehole records from this investigation indicated the soil profile generally consisted of topsoil at the ground surface with fill material, sandy silt/silt/clayey silt observed within increasing depth. During this investigation, the depth of fill material (including bricks, wood, concrete, asphalt, and plastic) ranged from 0.2 m to 5.3 m below ground surface (BGS).</p>
Bedrock	<p>Based on information obtained from the OGS bedrock geology map (OGS Map 2544), bedrock in the area of the Phase One Property is reported to consist of shale, limestone, dolostone, and siltstone of the Georgian Bay Formation. During Stantec's due diligence investigation, the depth to shale bedrock was reported to range from 2.3 m to 5.5 m BGS (Stantec, 2017).</p>

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Table 1 Conceptual Site Model

Physical Characteristics/ Pathways	Description
Groundwater Flow Direction	Based on topographic elevations obtained from the Ministry of Natural Resources and Forestry (MNR) website, the MNR digital elevation data, an Ontario Base Map, and the observed topography in the vicinity of the Phase One Property, the regional surface drainage (local groundwater flow direction) is inferred to be southeasterly toward Lake Ontario (Exp, 2015), which is located southeast of the Phase One Property. The southeastern boundary of the Phase One Property is irregular. The eastern portion of the Phase One Property extends into Lake Ontario, while at its furthest point the southeastern property boundary is approximately 90 m from Lake Ontario.
Underground Utilities	Underground utilities associated with various former buildings and operations on-site may still be present. Hydrants were observed along the northwestern and southwestern property boundaries and water lines may be present connecting the hydrants. Stantec understands that with the exception of potential underground utility service connections to the vacant car wash and kiosk building on the northern corner of the Phase One Property, there are no other active underground utilities and no other evidence of underground utilities were observed at the Phase One Property at the time of the site reconnaissance. The exact location of former utilities was not determined during the Phase One ESA.

Table 2 presents a summary of the PCAs identified during the Phase One ESA that based on the CSM were considered to contribute to APECs at the Phase One Property. Numbering of the PCAs, where provided in **Table 2**, is consistent with Table 2 in Schedule D of O.Reg.153/04.

Table 2 Areas of Potential Environmental Concern

Area of Potential Environmental Concern (APEC)	Location of APEC	Potentially Contaminating Activity (PCA)	Location of PCA	Contaminants of Potential Concern	Media Potentially Impacted
1	Northwestern Property Boundary	PCA 10 – Commercial Auto Body Shops	On-Site: 181 Lakeshore Road West and Off-Site: 125 High Street, 72 Wesley Avenue, 200, 212, 266, 280, and 286, Lakeshore Road West	PHCs, VOCs, including BTEX, and metals	Soil and Groundwater
2	Western Corner of the Phase One Property	PCA 10 – Commercial Auto Body Shops	Off-Site: 321 Lakeshore Road West	PHCs, VOCs, including BTEX, and metals	Soil and Groundwater

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Table 2 Areas of Potential Environmental Concern

Area of Potential Environmental Concern (APEC)	Location of APEC	Potentially Contaminating Activity (PCA)	Location of PCA	Contaminants of Potential Concern	Media Potentially Impacted
3	Eastern Portion of the Phase One Property	PCA 12 – Concrete, Cement, and Lime Manufacturing	On-Site	PAHs, metals, and inorganics	Soil and Groundwater
4	Phase One Property	PCA 14 – Crude Oil, Refining, Processing, and Bulk Storage	On-Site	PHCs, VOCs, including BTEX, metals, and phthalates (West Tank Farm)	Soil and Groundwater
5	Northwestern Property Boundary	PCA 14 – Crude Oil, Refining, Processing, and Bulk Storage	Off-Site: 250 Lakeshore Road West	PHCs, VOCs, including BTEX, metals, and PCBs	Soil and Groundwater
6	Northern Corner of the Phase One Property	PCA 28 – Gasoline and Associated Products Stored in Fixed Tanks	On-Site	PHCs, VOCs, including BTEX	Soil and Groundwater
7	Northeastern Portion of the Phase One Property	PCA 28 – Gasoline and Associated Products Stored in Fixed Tanks	Off-Site: 31 Bay Street	PHCs, VOCs, including BTEX	Soil and Groundwater
8	Northwestern Phase One Property Boundary	PCA 28 – Gasoline and Associated Products Stored in Fixed Tanks	Off-Site: 182 and 200 Lakeshore Road West	PHCs, VOCs, including BTEX, and metals	Soil and Groundwater
9	Northern Corner of the Phase One Property	PCA 28 – Gasoline and Associated Products Stored in Fixed Tanks	Off-Site: 150 Lakeshore Road West	PHCs, VOCs, including BTEX	Soil and Groundwater
10	Phase One Property	PCA 30 – Importation of Fill Material of Unknown Quality	On-Site	PHCs, VOCs, PAHs, PCBs, metals, and inorganics	Soil

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Table 2 Areas of Potential Environmental Concern

Area of Potential Environmental Concern (APEC)	Location of APEC	Potentially Contaminating Activity (PCA)	Location of PCA	Contaminants of Potential Concern	Media Potentially Impacted
11	Northwestern, Southeastern, and Central Portions of the Phase One Property	PCA 46 – Rail Yards, Tracks, and Spurs	On-Site	PHCs, PAHs, and metals	Soil and Groundwater
12	Northwestern Property Boundary	PCA 37 – Operation of Dry Cleaning Equipment (where chemicals are used)	Off-Site: 228 Lakeshore Road West	VOCs	Soil and Groundwater
13	Northern Corner of the Phase One Property	PCA 37 – Operation of Dry Cleaning Equipment (where chemicals are used)	Off-Site: 150 Lakeshore Road West	VOCs	Soil and Groundwater
14	Southeastern Corner of the Phase One Property	PCA 58 – Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosoils and soil conditioners	Off-Site: J.C. Saddington Park	PHCs, VOCs, PAHs, PCBs, metals, and inorganics	Soil and Groundwater
15	Northeastern Portion of the Phase One Property	PCA 55 – Transformer Manufacturing, Processing, and Use	On-Site	PHCs and PCBs	Soil

¹ Contaminants of Potential Concern include petroleum hydrocarbons (PHCs), volatile organic compounds (VOCs), including benzene, toluene, ethylbenzene, and xylenes (BTEX), selected metal and inorganic parameters, polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), and phthalates.

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Based on the findings of the Phase One ESA, it is Stantec's opinion that additional Phase Two ESA work is required and a RSC cannot be filed based solely on the findings of this Phase One ESA. Phase One and Two ESA investigations completed on behalf of the previous owner of the Phase One Property have identified impacts to soil and groundwater that will require further Phase Two investigation and remediation. The known soil and groundwater impacts at the Phase One Property as well as the identified APECS will be addressed by the Phase Two ESA and subsequent targeted remediation and risk assessments to be initiated in 2018, which will be reported under a separate cover.

The statements made in this Executive Summary are subject to the project conditions described in the Closure (Section 9.0), and are to be read in conjunction with the remainder of this report.

PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

Introduction
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2.0 INTRODUCTION

2.1 PHASE ONE PROPERTY INFORMATION

Stantec Consulting Ltd. (Stantec) was retained by Port Credit West Village Partners Inc. to conduct a Phase One Environmental Site Assessment (Phase One ESA) of former Imperial Oil Limited (IOL) Lands located at 70 Mississauga Road South and 181 Lakeshore Road West, Mississauga, Ontario, herein referred to as the "Phase One Property". The Phase One Property is legally described as Lot 10, Part of Lots 9 and 11, and Water Lot Location in Front of Part of Lot 9, Broken Front Range Credit Indian Reserve Toronto, in Mississauga with a Property Identification Number (PIN) 13488-1370. Historically the Phase One Property was several parcels of land including a former gasoline service station at 181 Lakeshore Road West, and historically had a former municipal address of 10 Mississauga Road South. Currently the Phase One Property is one parcel with municipal addresses of 70 Mississauga Road South and 181 Lakeshore Road West.

The Phase One property is currently vacant, with a vacant car wash and kiosk building on the northern corner of the Phase One Property (former gasoline service station property), a vacant former fire hall building, a sea container former American Petroleum Institute (API) separator, Shale Pit, and a portion of the Waterfront Trail. At the time of the site reconnaissance, July 17, 2017, the majority of the Phase One Property was not in use, with the exception of the Waterfront Trail, which was used for public recreational purposes. A portion of the Waterfront Trail is located within the southeastern boundary of the Phase One Property. The portion of the Waterfront Trail that crosses the Phase One Property, while part of the Site, is located outside the perimeter of the fence that surrounds the remainder of the Phase One Property. The Phase One Property is in an area of mixed commercial and residential property use.

The Phase One ESA was conducted for Port Credit West Village Partners Inc., in support of a Record of Site Condition (RSC) in accordance with Ontario Regulation 153/04 (O.Reg. 153/04). It further supports applications for official plan, zoning by-law amendments and draft plan of subdivision. The Phase One Property is currently vacant, with former industrial uses, and the intended use of the Phase One Property is residential, commercial, mixed residential/commercial, parkland, and community use (roadways). Given the proposed development of the Site will include a change to a more sensitive property use, a RSC is required in accordance with O.Reg. 153/04.

The purpose of the Phase One ESA was to identify Potentially Contaminating Activities (PCAs) within 250 metres (m) of the Phase One Property (Phase One Study Area) and assess if these activities have contributed to Areas of Potential Environmental Concern (APECs) on the Phase One Property.

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Figures are included in **Appendix A**. A location map is provided as **Figure 1**, **Figure 2** shows the Phase One Study Area, **Figure 3** shows historical site details, **Figure 4** shows the current monitoring wells on-site, **Figure 5** shows current site features, and **Figure 6** shows the APECs identified on the Phase One Property. A topographic map of the Phase One Study area is included on **Figure 1** and **Appendix D-2**.

Contact information for Port Credit West Village Partners Inc. (project client and Phase One Property owner) is as follows:

Owner/Client Contact:

David Harper
Port Credit West Village Partners Inc.
40 King Street West, Suite 2700
Toronto, ON, M5H 3Y2

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Scope of Investigation
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3.0 SCOPE OF INVESTIGATION

The general objectives of the Phase One ESA included the following:

- To develop a preliminary determination of the likelihood that one or more contaminants have affected any land or water on, in or under the Phase One Property
- To assess the need for a Phase Two Environmental Site Assessment (Phase Two ESA)
- To provide a basis for carrying out a Phase Two ESA, if necessary
- To provide adequate preliminary information about environmental conditions in the land or water on, in or under the Phase One Property to conduct a Risk Assessment following completion of a Phase Two ESA, if necessary

The Phase One ESA is intended to reduce, but not necessarily eliminate, uncertainty regarding the potential for contamination at a property. The Phase One ESA carried out by Stantec on this property satisfies the requirements of O.Reg. 153/04, and consisted of the following:

- A review of records that included, but was not limited to, the following where available:
 - Publicly available city directories, aerial photographs, fire insurance plans (FIPs), geological and topographic maps
 - Records on file with the Ministry of the Environment and Climate Change (MOECC) pertaining to the Phase One Property and selected adjacent/neighbouring properties
 - An Environmental Risk Information Service (ERIS) report consisting of a search of databases within an approximate radius of 250 m from the perimeter of the Phase One Property provided by Ecolog ERIS Ltd.
 - A land title search
 - Other available environmental databases and records, as applicable
 - Previous environmental reports
- Interviews with persons having specific knowledge of the Phase One Property, if available
- Site reconnaissance to identify PCAs associated with:
 - Current on-site operations
 - Waste generation
 - Fuel, chemical, and waste storage
 - Exterior conditions including surface features, fill material, and wells
 - Off-site activities and operations
- Evaluation of information from records reviewed, interviews, and site reconnaissance
- Preparation of the Phase One ESA report, and
- The submission of the Phase One ESA report to the owner of the Phase One Property

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A Phase One ESA does not include sampling or testing of air, soil, groundwater, surface water, or building materials. This assessment did not include a review or audit of compliance with any environmental legislation applicable to the Phase One Property, or of any environmental management systems which may exist for the Phase One Property.

A site reconnaissance was conducted by Ms. Breanne Graham, BA. (Hon.) of Stantec on July 17, 2017. The qualifications of the assessor are provided in **Appendix C**. The Phase One Property and readily visible and publicly accessible portions of adjoining and neighbouring properties within the Phase One Study Area were observed for PCAs. Stantec was not accompanied during the site reconnaissance. The interior of the buildings and sea container were not observed during the site reconnaissance due to safety concerns associated with the structural integrity of the buildings.

The findings of the Phase One ESA were used to develop a conceptual site model, which is depicted on **Figure 2** through **Figure 6** in **Appendix A**.

3.1 REGULATORY FRAMEWORK

In Ontario, the roles and powers of the MOECC when dealing with contaminated sites are outlined primarily in the *Environmental Protection Act* (R.S.O. 1990). The MOECC has a mandate to address conditions where there is an adverse effect, or the likelihood of an adverse effect, associated with the presence or discharge of a contaminant. O.Reg. 153/04 provides roles and responsibilities for property owners and consultants to use when assessing the environmental condition of a property when determining whether restoration is required and in determining the kind of restoration needed to allow continued use or reuse of a property. The regulation includes generic numerical standards for soil, groundwater and sediment quality for specific land and groundwater uses. A Phase One ESA is an initial step in the site assessment process, which may lead to the requirement for restoration work if areas of potential environmental contamination are identified. During a Phase One ESA, samples are not collected; however, if there are previous soil or groundwater sample results available, the results are compared with applicable Ontario site condition standards.

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Records Review
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4.0 RECORDS REVIEW

4.1 GENERAL

4.1.1 Phase One Study Area Determination

The Phase One Study Area included the Phase One Property, properties immediately adjoining the Phase One Property, and neighbouring properties located wholly or partially within 250 m of the nearest point on the boundary of the Phase One Property. The presence or absence of landfills and/or coal gasification plants within approximately 1 km of the Phase One Property was also evaluated. Based on the available information, Stantec concluded that a radius of 250 m from the nearest point on the boundary of the Phase One Property was appropriate for the Phase One Study Area.

4.1.2 First Developed Use Determination

The first developed use of a property, as described in O.Reg. 153/04, as amended, means the earlier of:

- The first use of a Phase One Property in or after 1875 that resulted in the development of a building or structure on the property, or
- The first potentially contaminating use or activity on the Phase One Property.

Based on a review of historical records, the Phase One Property was transferred to Peel General Manufacturing Co. in 1884. Aerial photographs were not available for this time period to confirm property use, and the earliest available FIP was from 1910 and only covered the northeastern and southeastern portion of the Phase One Property along Mississauga Road South (formerly Joseph Street).

A brick yard was reportedly established on the Phase One Property in 1888 (Port Credit Weekly Focus 65, 1965). The use of the Phase One Property prior to 1888 is unknown; however, a historical title search indicated the property was owned by private individuals between 1850 until transfer to Peel General Manufacturing Co. in 1884 and, therefore, the land use during this time was assumed to be either residential or agricultural.

Six buildings of unknown use were identified on the Phase One Property in the 1910 FIP; three of these buildings were shown on the southeastern portion of the Phase One Property along Joseph Street and were consistent with the outline of buildings shown on the 1928 FIP. The brick yard was active in the southeastern portion of the Phase One Property on the 1928 FIP.

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According to historical records, an oil and petrochemical refinery operated on the Phase One Property between 1933 and 1985 and historical tanks and infrastructure associated with refinery operations were largely decommissioned by 1990, with the exception of the tanks and associated infrastructure located south and southeast of the Shale Pit, which were decommissioned by 1995.

The first developed land use of the Phase One Property was therefore considered to be 1884, when Peel General Manufacturing Co. purchased the Phase One Property from a private owner.

4.1.3 Fire Insurance Plans

FIPs pertaining to the Phase One Property and Phase One Study Area were requested from Opta Information Intelligence Inc. (Opta). Opta provided FIPs dated 1910, 1928, and 1952, excerpts of which are provided in **Appendix D-2**. PCAs associated with historical off-site activities are shown on **Figure 2** and PCAs and relevant site features associated with historical on-site activities are shown on **Figure 3**.

1910 FIP

The available 1910 FIP covered most of the northern and northeastern portions of the Phase One Property and the Phase One Study Area to the north and northeast. Six buildings of unknown use were observed along Joseph Street (now Mississauga Road South). In addition, a narrow creek was identified on the Phase One Property, south of Bay Street, crossing Joseph Street and J.C. Saddington Park.

Neighbouring and adjacent property use was as follows:

- North and northeast: Joseph Street was observed north and northeast of the Phase One Property, beyond which were commercial and residential developments. In particular, a mill and scattered lumber were identified approximately 50 m north of the Phase One Property at 98 Toronto Road (now 150 Lakeshore Road West).
- South: Not included on the 1910 FIP.
- West: Not included on the 1910 FIP.

1928 FIP

The available 1928 FIP covered the northwestern, northern, northeastern, and southeastern sections of the Phase One Property and Phase One Study Area.

The northwestern portion of the Phase One Property was largely undeveloped, with two buildings of unknown use identified along Toronto Street (now Lakeshore Road West), possibly a residential dwelling and out building. Three buildings, possibly residential dwellings, along with two possible

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underground storage tanks (USTs) were also identified at the northern corner of the Phase One Property (identified as 181 Lakeshore Road West). The southeastern portion of the property was occupied by the Port Credit Brick Co. Operations included an office, pressed brick plant, dryer, machine house, workshop, six brick kilns and other unidentified buildings. The shoreline of Lake Ontario did not extend as far to the southeast as it does at present, indicating the southeastern portion of the Phase One Property was later infilled. The creek observed on the 1910 FIP was present, a rail siding entered the Phase One Property from Lakeshore Road running southeast toward the former shoreline of Lake Ontario, and a slip (harbour inlet) was observed near the eastern corner of the Phase One Property.

Neighbouring and adjacent property use was as follows:

- Northwest: Lakeshore Road was northwest of the Phase One Property, beyond which were commercial and residential developments.
- Southeast: Not included on the 1928 FIP.
- Southwest: Various unidentified buildings (potentially residential homes) were observed southwest of the Phase One Property, beyond which was Pine Avenue. A vehicle repair shop and three USTs were observed at the southwestern corner of Pine Avenue and Lakeshore Road.
- Northeast: Residential dwellings and Waterworks Pumping Station were observed northeast and east of the Phase One Property. In addition, a UST was observed on the roadway of Bay Street in front of an unknown building identified as 31 Bay Street.

1952 FIP

The available 1952 FIP covered the Phase One Study Area. The Phase One Property use was as follows:

An oil refinery owned by Trinidad Leaseholds (Canada) Ltd. was operating on the Phase One Property. The tank farm areas contained 49 numbered bulk storage above ground storage tanks (ASTs). Numerous smaller ASTs containing lube oil, fuel oil, slop oil, and unknown contents were observed in the tank farms and Process Area. Two suspected USTs with unknown contents were present in the Process Area, and other potential USTs or ASTs within below grade structures were observed. In addition, two Canadian National Railway sidings consistent with the 1928 FIP were observed entering the Phase One Property off Lakeshore Road and running southeast towards the shoreline of Lake Ontario.

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Neighbouring and adjacent property use was as follows:

- Northwest: Northwest of Phase One Property was Lakeshore Road West, beyond which were mixed commercial and residential land uses. A gasoline service station (with four USTs) was identified northwest of the Phase One Property at 286 Lakeshore Road West, an 'Industrial Cleaners Manufacturer' was located at 268 Lakeshore Road West, and a gasoline service station with eight USTs was located at 182 Lakeshore Road West. In addition, a rail siding located immediately west of 250 Lakeshore Road West and an oil pipeline southwest of Wesley Avenue were identified to be running southeast across Lakeshore Road West and entering the Phase One Property.
- Southeast: Lake Ontario and waterfront lands under separate ownership was located southeast of the Phase One Property.
- Northeast: Mississauga Road South was observed northeast of the Phase One Property, beyond which a Water Works Pumping Station and Filtration Plant (now J.C. Saddington Park) was identified along Lake Ontario.
- West/southwest: A bus loop and residential dwellings, beyond which was Pine Avenue. A vehicle repair shop and three USTs (operated by Port Credit Motors Limited) were observed at 320 Lakeshore Road West (now referred to as municipal address 321 Lakeshore Road West).

4.1.3.1 FIP Summary

The 1910 FIP identified the presence of numerous buildings of unknown use on the Phase One Property. A mill and scattered lumber were identified approximately 50 m north of the Phase One Property at 98 Toronto Road (now 150 Lakeshore Road South). The FIP provided did not cover the entire Phase One Property, and therefore, more details could not be provided.

The 1928 FIP identified the operation of a brick manufacturing facility within the southeastern portion of the Phase One Property. The presence of the historical brick facility and associated operations represents a PCA with the potential to contribute to an APEC at the Phase One Property.

A UST was observed on the roadway of Bay Street in front of an unknown building on the 1928 FIP. Based on the distance from the Phase One Property (approximately 50 m northeast) the historical presence of a UST is considered to represent a PCA with the potential to contribute to an APEC at the Phase One Property.

Historical vehicle repair shops and associated USTs were identified at 321 Lakeshore Road West (referred to as municipal address 320 Lakeshore Road West in the 1952 FIP) in the 1928 and 1952 FIPs. Based on the distance from the Phase One Property (approximately 65 m west and

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southwest), and the inferred groundwater flow direction to the southeast, it is considered to represent a PCA with the potential to contribute to an APEC at the Phase One Property.

The 1952 FIP identified the presence of numerous bulk storage ASTs and possible USTs associated with the historical operation of an oil refinery on the Phase One Property. In addition, rail sidings and an oil pipeline were observed to be entering the northwestern portion of the Phase One Property off Lakeshore Road West. The historical presence of numerous petroleum products storage tanks, the historical rail lines, oil pipeline, and associated refining operations represent PCAs with the potential to contribute to APECs at the Phase One Property.

The 1952 FIP identified former gasoline service stations at 182 and 286 Lakeshore Road West. Based on the distance from the Phase One Property (approximately 25 m northwest of the Phase One Property), the historical USTs associated with the operation of gasoline service stations at 182 and 286 Lakeshore Road West represent PCAs with the potential to contribute to APECs at the Phase One Property.

4.1.4 Chain of Title

A Service Ontario Parcel register was purchased from ERIS, dated May 5, 2017 and an historical chain of title search back to prior to crown completed by Title Search Services and dated November 10, 2008 that was included in the 2013 Phase I ESA report prepared by exp Energy Services Ltd. (Exp) were reviewed for the Phase One Property. The Phase One Property is legally described as:

- Part of Lots 9, 10, and 11 Broken Front Range Credit Indian Reserve Toronto, Mississauga and
- Part Water Lot Location in Front of Part of Lot 9 Broken Front Range Credit Indian Reserve Toronto, Mississauga

Records were obtained from Crown to the present owner. Ownership for the Phase One Property was as follows:

- Lot 9: Private individuals were listed from 1850 to 1884, when the property along with Lots 10 and 11, were transferred to Peel General Manufacturing Co.
- Lots 10 and 11: Private individuals were listed from 1855 to 1884, when the properties along with Lot 9, were transferred to Peel General Manufacturing Co.

From 1884 to 1904 the land was transferred ten times and Port Credit Brick Co., took ownership on November 12, 1904. Port Credit Brick Co. remained the owner (along with numerous private individuals), until 1933, when Part of Lots 9 and 10 were transferred to Lloyd Refineries Ltd. The land was transferred between various oil refining companies (Good Rich Refining Co. Ltd., Trinidad Leaseholds (Canada) Ltd., Regent Refining (Canada) Limited, and Texaco Canada Inc.,) between 1933 and 1990, when it was transferred to numbered company 172965 Canada

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Limited. The final land transfers to Port Credit West Village Partners Inc. occurred on March 23, 2017.

The owner names and more detail on the dates of ownership are provided in **Table 7** and various chain of title documentation is provided in **Appendix D-1**.

4.1.5 Environmental Reports

The following environmental reports were provided to Stantec for review. Current and historical details of the Phase One Study area are shown on **Figure 2** and historical details of the Phase One Property are shown on **Figure 3**. The location of monitoring wells and soil vapour probes present on the Phase One Property as of June 2017 are shown on **Figure 4** for reference.

“Assessment of Greenway Study Lands, Imperial Oil Limited, South Property, Port Credit, Ontario” prepared by Golder Associates Ltd. for Imperial Oil Limited, dated June 30, 1995.

Golder Associates Ltd. (Golder) was retained by IOL to complete the 1994 and 1995 Assessment of the Greenway Study Lands. The Greenway Study Lands were a 60-m wide strip of land adjacent to the Lake Ontario shoreline that extended along the southeastern boundary of the Phase One Property. The Greenway Study Lands were separated into three main areas based on historical land use: West Tank Farm, Process Area, and Shale Pit. The objectives of the study were to conduct a geophysical survey and characterize soil and groundwater quality conditions. A supplemental investigation was completed to address initial data gaps in the study.

During the field program two monitoring wells were installed (94-101 and 94-102), 57 test pits were advanced to a maximum depth of 3.6 m below ground surface (BGS). Fill material (bricks, wood, concrete, asphalt, and plastic) was identified in most test pits and boreholes to a maximum depth of 3.5 m BGS. Soil and groundwater samples were analyzed for inorganic and organic (polycyclic aromatic hydrocarbons (PAH) and benzene, toluene, ethylbenzene, and xylene (BTEX)) parameters.

Area 1 was identified as the former West Tank Farm. This area was reportedly historically used for agricultural purposes and the overburden material was stripped during the brick plant activities. Area 1 analytical results and observations were as follows:

- In shallow soil, elevated concentrations of mercury, pH, and 2-methylnaphthalene were identified
- In deep soil, elevated concentrations of 2-methylnaphthalene were identified
- Sheen was observed on the surface of groundwater in test pits TP1-45B and TP1-45C

Based on information presented by Golder, Area 4 was identified as the Process Area and included smaller areas referred to as Areas 4A to 4D. Golder reported that the first rail spur line was built into this portion of the property to assist with the brick plant operations. In addition, a

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pipeline connected to an offshore platform was used to load and unload crude oil and product in Area 4B. The buildings associated with the historical brick plant were demolished between 1937 and 1946 and lake infilling in Area 4 was completed by 1989. Analytical results and observations related to Area 4 were as follows:

- In shallow soil, elevated concentrations of mercury, pH, oil and grease, lead, cadmium, copper, zinc, molybdenum, vanadium, and 2-methylnaphthalene were identified
- In deep soil, 2-methylnaphthalene, anthracene, benzo(a)anthracene, chrysene, dibenz(a,h)fluoranthene, benzo(k)fluoranthene, and benzo(a)pyrene were identified
- Sheen was observed on the surface of groundwater in test pits TP4-7D and TP4-9D
- A buried steel drum was discovered at test pit TP4-9D
- Free product was observed in test pits TP4-11A and TP4-11B

Area 5 was identified as the Shale Pit, which Golder reported was used as a settling pond for treated wastewater (including oily waste and refinery slop). The API separator, a phenol separator, and water treatment facilities were also located in this portion of the property. As reported by Golder, process water, oil waste, and refinery slop went through the API to be separated prior to being reprocessed on the property. Analytical results and observations for Area 5 were as follows:

- In shallow soil, elevated concentrations of mercury, pH, 2-methylnaphthalene, oil and grease, lead, and antimony were identified
- In deep soil, elevated concentrations of 2-methylnaphthalene were identified
- Free product and/or sheen was observed at test pits TP5-45A, TP5-48A, and TP5-51A
- A historical UST was discovered in test pit TP5-48D, located southeast of the Shale Pit
- Elevated concentrations of aluminum, arsenic, barium, cadmium, iron, lead, mercury, and manganese were reported in one or both of the groundwater samples submitted from monitoring wells 91-101 and 94-102

“Assessment of Proposed Waterfront Trail Lands, Imperial Oil Limited, South Property, Port Credit, Ontario”, prepared by Golder Associates Ltd. for Imperial Oil Limited, dated March 31, 1997.

This report summarized the investigations conducted on the proposed Waterfront Trail Lands (located along the southeastern boundary of the Phase One Property). The report included the information contained in Golder's 1995 report, and documented an additional investigation of soil vapours at Area 4B and an investigation to delineate the extent of observed sheen (referred to by Golder as the groundwater sheen investigation) to develop a “Duty of Care” remedial scope of work to support the future use of the land as parkland.

As previously mentioned, petroleum hydrocarbon free product and sheen were observed on the surface of water encountered in test pits in Area 4A and Area 5. In the fall of 1995, test pits were excavated to the depth of the water table to gather information on the areal extent of the sheen and product. No soil, bedrock, or groundwater samples were submitted for chemical analysis.

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During the Area 4B vapour monitoring program, ground level vapour samples were collected from a 0.75 m by 0.75 m area within the proposed walkway in Area 4B. Samples were analyzed for BTEX. Golder indicated that the potential for exposure of the public using the walkway in this area was negligible.

Following the two supplemental investigations mentioned above, the "Duty of Care" excavation works involved the removal of impacted soil and groundwater from Area 4A and Area 5 and the installation of a groundwater control trench along the southeastern property boundary and installed into the bedrock to intercept shallow groundwater migration. "The objectives of these works were to restore localized areas impacted with petroleum hydrocarbon free product to an environmental condition that was consistent with the site specific clean-up criteria agreed with the Ontario Ministry of Environment and Energy (MOEE) and to provide groundwater control measures across the south portion of the Waterfront Trail Lands" (Golder, 1997).

"Remedial Measures, proposed Waterfront Trail Lands, Imperial Oil Limited, South Property, Port Credit, Ontario", prepared by Golder Associates Ltd. for the City of Mississauga, dated March 9, 1998.

This report summarized the environmental condition of the proposed Waterfront Trail Lands (southeastern Phase One Property boundary) and recommended soil capping to bring the Waterfront Trail Lands into compliance with Walkway-Specific Clean-up Criteria, dated January 1996. The report associated with the Walkway-Specific Clean-up Criteria was not provided to Stantec for review.

In May 1997, a subsurface investigation of the walkway and pier was completed. No issues of environmental concern were observed; however, soil results confirmed localized organic impacts which triggered the development of site-specific guidelines (SSG).

"Site Specific Guidelines Development for the Greenway Study Lands, South Property, Imperial Oil Lands, Port Credit, Ontario", prepared by Golder Associates Ltd. for the City of Mississauga, dated September 1999.

The SSG were reportedly based on, and consistent with, the 1996 MOEE *Rationale for the Development and Application of Generic Soil, Groundwater, and Sediment Criteria for the Clean-Up of Contaminated Sites*. The City of Mississauga retained Golder to help develop these guidelines by using a risk-based approach that considered both human and environmental health. The soil and groundwater conditions along the waterfront were compared with the SSG, which indicated that the property was not suitable for use as a parkland walkway without implementing mitigation measures. The SSG were applied to Area 4 in the southern portion of the property, and the SSG were developed for 12 parameters (anthracene, benzo(a,h)anthracene, fluoranthene, naphthalene, phenanthrene, 1-methylnaphthalene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, and 2-methylnaphthalene). Golder proposed a soil cap as a mitigation measure to act as a barrier between the potentially impacted soil and the terrestrial ecological receptors and the public.

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“Preliminary Environmental Assessment, 10 Mississauga Road South, Mississauga, Ontario”, prepared by Barenco Inc. for Imperial Oil Limited, dated April 30, 2010.

This report summarized a 2008/2009 investigation by Barenco Inc. (Barenco) on the Phase One Property. During this investigation 50 test holes were advanced (TH100 to TH125, TH126a to TH130c, RW1 to RW3, IP, and TH201 to TH205) and 31 monitoring wells were installed (TH100, TH102, TH103, TH112 to TH121, TH126a to TH130c, RW1 to RW3, and IP) to a maximum depth of 12.2 m BGS. The objective of this investigation was to understand soil and groundwater quality relative to the 2004 O.Reg. 153/04 Table 3 standards for a non-potable groundwater conditions, agricultural/residential/parkland/institutional property use, for medium to fine textured soils (2004 residential/parkland/institutional (RPI) Table 3 SCS) and to conduct sediment sampling at the base of the Shale Pit.

The depth to groundwater was reported to range from approximately 0.5 m to 5.3 m BGS, and the groundwater flow direction was reported to be to the southeast. Free product was detected during this investigation at monitoring wells TH129A, RW2, and RW3 (located northwest of the Shale Pit, and within the former northwestern extent of the Shale Pit).

Soil samples were submitted for laboratory analysis of one or more of the following: BTEX, PHCs, PAHs, metals, sodium absorption ratio (SAR), conductivity, and pH. Concentrations of PHC fractions 1 to 3 (F1 to F3), lead, copper, mercury, benzo(a)pyrene, naphthalene, SAR, benzene, toluene and xylene were identified in soil greater than the 2004 RPI Table 3 SCS at various locations (RW1, RW2, RW3, TH104, TH105, TH109, TH111, TH113, TH114, TH116, TH117, TH118, TH119, TH120, TH124, TH128A, TH130A, TH201, TH202, TH203, TH204, TH205) across the Phase One Property at depths up to 10.5 m BGS.

Groundwater samples were submitted for laboratory analysis of volatile organic compounds (VOCs), PHCs, PAHs, and inorganic parameters. The following samples had concentrations of contaminants of concern (COCs) greater than the 2004 RPI Table 3 SCS:

- TH129A – PHC F1
- TH129C and RW2 – PHC F1 to F4
- IP and RW1 – benzene
- RW3 – PHC F1 to F4, benzo(k)fluoranthene, and chrysene

“Phase I Environmental Site Assessment, 10 Mississauga Road South, Mississauga, Ontario”, prepared by Exp Energy Services Ltd. (Exp), for Imperial Oil Limited, dated May 24, 2013.

This Phase I ESA was completed for the current Phase One Property, with the exception of the former gasoline service station located on the northern corner of the Phase One Property (181 Lake Shore Road West) and the lands located southeast of the southeastern perimeter fence. The investigation included a review of the historical records, including a title search, survey, ERIS report, municipal records, city directory search to crown, aerial photographs, provided a summary of historical reports, site photographs, an interview with a person with historical

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knowledge of the property, as well as a search of records available from the Technical Standards and Safety Authority (TSSA) and MOECC.

Exp summarized several previous environmental reports that were not provided to Stantec as part of the records review to support the current Phase One ESA. Exp summarized 1990 and 1992 reports prepared by Golder. The 1990 Golder report reportedly indicated that leaded tank bottoms had been disposed on the Northwest Tank Farm, stockpiled soils from the former refinery operations at 250 Lakeshore Road West had been stockpiled on the West Tank Farm and Northeast Tank Farm and metals impacts were identified in areas of former settling ponds. The 1992 Golder report reportedly indicated elevated phenol concentrations in groundwater at the property boundaries (location not further specified), with the highest phenol concentration reportedly at monitoring well BH92-317 located in the Northeast Tank Farm.

Exp's site visit findings indicated that several disconnected ASTs were identified in the fire hall building, a vacant sea container on the property was formerly used for site construction activities, an oil water separator was identified adjacent to the fire hall, and settling ponds were historically used for sludge removed from the Shale Pit.

The following PCAs were identified on the Site:

- PCA 14 - Crude oil refining, processing, and bulk storage
- PCA 46 - Rail yards, tracks, and spurs
- PCA 28 - Gasoline and associated products storage in fixed tanks
- PCA 10 - Commercial auto body shops
- PCA 58 - Waste disposal and waste management, including thermal treatment, landfilling, and transfer of waste, other than use of soils and soil conditions
- PCA 30 - Importation of fill material of unknown quality.

PHCs, BTEX, ethylene dibromide (EDB), EDC (not defined in Exp's report, assumed to be ethylene dichloride), methyl tert-butyl ether (MTBE), VOCs, PAHs, PCBs, metals, phthalates, phenolic and chlorofluorocarbon solvents were listed as potential contaminants of concern in soil and groundwater resulting from the potential sources of contamination identified above. The Phase I ESA recommended that a Phase II ESA be conducted to investigate the identified PCAs.

"Phase II Environmental Site Assessment, 10 Mississauga Road South, Mississauga, Ontario", prepared by Exp Energy Services Ltd., for Imperial Oil Limited, dated August 8, 2015.

The scope of work for this Phase II ESA was based on the findings of Exp's 2013 Phase I ESA report. The Phase II ESA field work was completed between May 2013 and February 2014. A total of 580 test pits (TP1A/B to TP580A/B) and 1,234 boreholes (TH300 to TH999 and TH1200 to TH1734) were advanced, 80 of which were completed as monitoring wells. Exp applied the O.Reg.153/04 2011 Table 3 SCS for an industrial, commercial, community land use and medium to fine textured soils in a non-potable groundwater condition (2011 ICC Table 3 SCS).

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The following summary of analytical results is provided:

- Concentrations of PHCs in 2,238 of the 3,278 soil samples were greater than the 2011 ICC Table 3 SCS.
- Concentrations of VOCs in the soil samples were less than the 2011 ICC Table 3 SCS, with the exception of soil samples from six test pit locations.
- Concentrations of PAHs in 684 of the 3,803 soil samples were greater than the 2011 ICC Table 3 SCS for one or more PAH parameters at 319 test pit and 112 borehole locations.
- Soil samples submitted for laboratory analysis were less than the 2011 ICC Table 3 SCS for semi-volatile organic compound (SVOC) acid base neutral extractable compounds (ABN) and phenolic compounds with the exception of bis (2-ethylhexyl) phthalate in a soil sample collected at test pit TP462. This test pit was located in the West Tank Farm, west of the Shale Pit. Therefore, Stantec has considered phthalates to be a localized contaminant of potential concern (COPC) in soil in the West Tank Farm.
- Concentrations of one or more metals and inorganic parameters in 291 of the 3,715 soil samples recovered were greater than the 2011 ICC Table 3 SCS at 87 test pit and 141 borehole locations.
- Concentrations of PCBs in soil samples were less than the 2011 ICC Table 3 SCS, with the exception of soil samples collected from test pit TP233 and boreholes TH813 and TH1402 (located in the backfilled area of the Shale Pit, the Administration Area and the Northeast Tank Farm Area).
- The pH for surface and subsurface soils was the within acceptable range.
- Concentrations of PHCs in submitted groundwater samples collected from monitoring wells were less than the 2011 Table 3 SCS, with the exception of groundwater samples collected at monitoring wells TH546A, TH546B, TH548A, TH548B, TH560A to TH560C, TH562A, TH562B, TH1296, TH1303A, TH1342A, TH1366A, TH1378, TH1381, TH1414, TH1477, TH1483, TH1541, TH1543, TH1561, TH1563, TH1565, TH1600, TH1601, TH1701, and TH1703B.
- Concentrations of VOCs, PAHs, PCBs, SVOCs, ABN, and phenolic compounds in groundwater samples were less than the 2011 Table 3 SCS. The phenol concentrations in groundwater samples collected by Exp at the Phase One Property, including at monitoring well TH1600 in the vicinity of BH92-317, were less than the Table 3 SCS, and therefore Stantec has not considered phenol to be a COPC at the Phase One Property.
- Concentrations of metals and inorganic parameters in groundwater samples were less than the 2011 Table 3, with the exception of sodium at TH1368B (located south of the Shale Pit) and TH1602 (located near the boundary between the Northeast Tank Farm and the Process Area).

The Phase II ESA concluded that the COCs identified to be present on the property were a result of the historical oil refinery and petrochemical storage facility operations on-site.

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“Supplemental Phase II Environmental Site Assessment, 10 Mississauga Road, South, Mississauga, Ontario”, prepared by Exp Energy Services Ltd., for Imperial Oil Limited, dated July 24, 2015.

The supplemental Phase II ESA was completed between February and June 2015. During the investigation, 20 monitoring wells (TH560D, TH562C, TH1342C, TH1563B, TH1602C, TH1702B, TH1800A/B to TH185A/B, TH1806, and TH1807) were advanced to a maximum depth of 16.8 m BGS. Fill material was encountered to a maximum depth of 3.5 m BGS.

Previously installed wells on-site were monitored and free product was observed at monitoring wells BH90-214, BH90-215, RW3, TH114, TH118, and TH129B.

Analytical results were compared with the 2011 ICC Table 3 SCS. Soil samples were submitted for laboratory analysis of VOCs, PHCs, PAHs, PCBs, metals and inorganic parameters, and groundwater samples were submitted for laboratory analysis of VOCs, PHCs, and PCBs. Results from the investigation are as follows:

- Concentrations of PHCs in the soil samples were greater than the 2011 ICC Table 3 SCS, with the exception of soil samples collected at boreholes TH1801A and TH1805A.
- Concentrations of VOCs, PCBs, PAHs, metals and inorganics in the soil samples were less than the 2011 ICC Table 3 SCS, with the exception of PAH concentrations in soil samples collected at boreholes TH1800A and TH1803A and lead in the soil sample collected at borehole TH1803A.
- Concentrations of PHCs, VOCs, and PCBs in the groundwater samples were less than the 2011 Table 3 SCS, with the exception of PHC concentrations in groundwater samples collected at monitoring wells BH90-204B, BH90-207B, BH92-304A, 19B, TH562C, TH1602C, TH1702B, TH1800A to TH1805A, and TH1800B.

Fill material was identified within the Administration Area, Shale Pit, slip, Northwest Tank Farm, Northeast Tank Farm, West Tank Farm, and the area adjacent to J.C. Saddington Park.

“Soil Vapour Probe Sampling Program Report”, 10 Mississauga Road South, Port Credit, Ontario, prepared by Exp Energy Services Ltd., for Imperial Oil Limited, dated January 22, 2016.

IOL retained Exp to sample eight previously installed soil vapour probes (VP1 to VP8) located along the northwestern (VP1 and VP2) and northeastern (VP3 to VP8) property boundaries at the Phase One Property. VP1 to VP8 were installed by Exp in 2015. The sampling event was completed between December 14 and 16, 2015. Soil vapour samples were recovered from the eight vapour probes and submitted for analysis of selected VOC parameters and PHC F1 and F2. The vapour concentrations in the samples submitted during the December 2015 event were less than the site-specific soil vapour screening levels applied by Exp, with the exception of PHC F1 and F2 concentrations at VP3 located in the northern portion of the Phase One Property adjacent to Mississauga Road South. The analytical summary table provided also included the results from previous soil vapour probe sampling events completed in 2015. A summary of results greater than the site-specific soil vapour screening levels is as follows:

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- VP3 – January 2015 – benzene and PHC F2; March and July 2015 – PHC F2; December 2015 – PHC F1 and F2
- VP4 – February 2015 – benzene
- VP5 – January 2015 – benzene and 1,4-dichlorobenzene
- VP6 – February 2015 – benzene
- VP8 – January 2015 – benzene

“Soil Vapour Probe Installation and Sampling Program Report”, Adjacent to 10 Mississauga Road South, Port Credit, Ontario, prepared by Exp Energy Services Ltd., for Imperial Oil Limited, dated January 22, 2016.

IOL retained Exp to install one soil vapour probe (VP9) within the Mississauga Road South roadway, south of Port Street West, along the northeastern Phase One property boundary to delineate the elevated soil vapour identified at soil vapour probe VP3. VP9 was installed on May 19, 2015 and was sampled on May 21, 2015 and December 15, 2015. Soil vapour samples were submitted for analysis of VOCs and PHC F1 and F2. The results were less than the site-specific soil vapour screening levels, with the exception of chloroform in May 2015. The samples collected during the December 2015 event were less than the site-specific soil vapour screening levels for selected VOCs and PHC F1 and F2. Since the concentrations at VP9 were less than the concentrations at VP3, Exp concluded that the reported on-site PHC F2 concentrations at VP3 were not expected to pose an adverse effect to the off-site residential receptors.

“Phase II Environmental Site Assessment and Site Decommissioning Program, 181 Lakeshore Road West, Mississauga, Ontario”, prepared by Exp., for Imperial Oil Limited, dated January 27, 2017.

The gasoline service station located on the northern corner of the Phase One Property was reportedly decommissioned in November and December 2016. IOL retained Exp to delineate soil and assess groundwater conditions at the former gasoline service station property during the decommissioning. The decommissioning program involved the demolition of the canopy, removal of three USTs and associated piping, and the removal of an oil/grit separator. The final depths of the UST excavation were between 3.8 m and 4.1 m BGS, the oil/grit separator excavation was terminated 2 m BGS, and the product piping trench and piers excavation was terminated 1.1 m BGS.

Soil quality was tested at the final extents of the excavations and trenches. In addition, five test pits (TP1 to TP5) and seven boreholes (TH1 to TH7) were advanced, six of which were completed as monitoring wells (TH1 to TH6), to a maximum depth of 5.2 m BGS. Fill material was encountered at depths up to 3.2 m BGS. Monitoring wells TH1, TH2, TH4, and TH5 were advanced outside of the excavations, TH3 was advanced within the extent of the pump island excavation, and TH6 was advanced within the extent of the UST excavation.

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Analytical results were compared with the 2011 ICC Table 3 SCS. Soil was analyzed for BTEX, VOCs, PHCs, PAHs and metals and groundwater was analyzed for VOCs, PHCs, and metals.

Concentrations of analyzed parameters in the soil samples were less than the 2011 ICC Table 3 SCS, with the exception of PHC F1 in soil samples PIER4-1.5 (1.5 m BGS), TP2-2.0 (2.0 m BGS), and TP3-2.0 (2.0 m BGS). These soil samples were located within the extent of the former pump island.

Concentrations of analyzed parameters in the groundwater samples recovered from monitoring wells TH1 to TH6 were less than the 2011 Table 3 SCS.

“Environmental Due Diligence Program”, Port Credit Imperial Oil Lands, 70 Mississauga Road South, Mississauga, Ontario, prepared by Stantec for Port Credit Village Partners Inc., dated March 2, 2017.

Port Credit Village Partners Inc. retained Stantec to characterize soil, groundwater, and soil vapour conditions in areas not previously investigated (northwestern and northeastern property boundaries, Waterfront Trail, and central portions of the Site). The intent was to use the results of the due diligence program to aid in determining the future remediation strategy for the property. The field work was completed between January 3 and February 6, 2017. The majority of the results were compared with the Table 3 SCS for RPI land use in a non-potable groundwater condition, with medium to fine textured soil (2011 RPI Table 3 SCS). The soil and groundwater samples collected within 30 m of Lake Ontario were compared with the Table 9 SCS.

A total of 147 previously installed and newly installed monitoring wells were monitored. Free product was present on the groundwater surface of the following monitoring wells located west of the Shale Pit (approximate vicinity of the infilled portion of the Shale Pit), with the thickness indicated:

- TH114 (screened in overburden) – 5 mm
- RW3 (screened in overburden) – 5 mm
- TH118 (screened in overburden) – 10 mm
- TH129B (screened in bedrock) – 15 mm
- BH90-215 (assumed to be screened in overburden) – 20 mm
- BH90-214 (assumed to be screened in overburden) – 140 mm

Soil vapour samples were collected at seven soil vapour probes (VP1 to VP3 and VP5 to VP9) and submitted for laboratory analysis of VOCs and PHC F1 and F2. Measured soil vapour concentrations were less than the residential soil vapour criteria derived using the MOECC Modified Generic Risk Assessment model (November 1, 2016), with the exception of PHC F2 at VP3. The findings were consistent with Exp's 2015 results.

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A total of 26 boreholes, all completed as monitoring wells, were advanced as part of the due diligence program. Soil samples were submitted for analysis of one or more BTEX and PHC F1 to F4, as well as VOCs for selected samples. A summary of the 2011 RPI Table 3 SCS soil exceedances are below:

- MW17-020D
 - 2.3 m to 2.9 m BGS – benzene
 - 3.0 m to 3.6 m BGS – benzene and PHC F1
- MW17-021D
 - 0.8 m to 1.4 m BGS – BTEX, PHC F1 and F2
 - 2.3 m to 2.9 m BGS – benzene
- MW17-012D
 - 1.5 m to 2.1 m BGS – PHC F1 and F2
- MW17-013
 - 1.5 m to 2.1 m BGS – PHC F1 and F2
- MW17-014
 - 0.8 m to 1.4 m BGS – PHC F1
- MW17-022D
 - 2.3 m to 2.9 m BGS – PHC F1
 - 3.0 to 3.6 m BGS – benzene
- MW17-025D
 - 0.8 to 1.4 m BGS – benzene

A summary of the Table 9 SCS soil exceedances for the locations within 30 m of Lake Ontario are below:

- MW17-001
 - 3.8 m to 4.4 m BGS – benzene and methylene chloride
- MW17-002
 - 3.8 m to 4.4 m BGS – xylene and methylene chloride
- MW17-003
 - 3.8 m to 4.4 m BGS – benzene, xylene, and methylene chloride
- MW17-004
 - 3.0 m to 3.6 m BGS – PHC F2 to F4
 - 3.8 m to 4.4 m - benzene
- MW17-006
 - 2.3 m to 2.9 m BGS – BTEX and PHC F2
 - 5.3 m to 5.9 m BGS – benzene and xylene
- MW17-007
 - 3.8 m to 4.4 m BGS – PHC F4
 - 5.3 m to 5.9 m BGS – benzene and xylene
- MW17-008
 - 3.8 m to 4.4 m BGS – benzene and PHC F2

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- MW17-026
 - 1.5 m to 2.1 m BGS – benzene, ethylbenzene, xylene, and PHC F4
 - 4.6 m to 5.2 m BGS – xylene and PHC F4

Groundwater samples were collected at 54 existing monitoring wells and 26 newly installed monitoring wells and submitted for laboratory analysis of BTEX and PHCs, with VOC analysis at selected locations. Concentrations of BTEX and PHC F1 to F4 were greater than the 2011 Table 3 SCS in both overburden and bedrock monitoring wells across the Phase One Property. Concentrations of VOCs were less than the 2011 Table SCS in the submitted groundwater samples. Concentrations of BTEX, PHC and VOCs were less than the 2011 Table 9 SCS in the groundwater samples submitted from monitoring wells within 30 m of Lake Ontario. A summary of the 2011 Table 3 SCS groundwater exceedances is as follows:

- TH54B (screened in bedrock) – benzene and PHC F2
- TH564 (screened in overburden) – benzene
- TH1563 (screened in bedrock) – benzene, PHC F1 and F2
- TH1802A (screened in overburden) – benzene
- TH1805A (screened in overburden) – PHC F2 to F4
- MW17-015 (screened in overburden) – PHC F2
- TH1600 (screened in overburden) – PHC F2
- TH1800B (screened in bedrock) – benzene
- MW17-013 (Screened in overburden) – PHC F2
- 19B (screened in bedrock) – PHC F3
- TH129C (screened in bedrock) – PHC F1 to F3
- TH562B (screened in bedrock) – benzene
- TH1414 (screened in overburden) – benzene or PHC F2
- TH1602B (screened in bedrock) - benzene

Stantec proposed a Phase One and Two ESA, O. Reg. 153/04 risk assessment(s), targeted soil and groundwater remediation and verification programs, and a soil management program to support the filing of RSC(s) under O.Reg. 153/04.

4.2 CITY DIRECTORIES

ERIS searched city directories for the Phase One Property and the Phase One Study Area for the following years: 1961, 1966, 1972/1973, 1977/1978, 1984, 1989, 1994, and 2000.

Table 3 summarizes the PCAs identified in the Phase One Study Area during the city directory search:

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Table 3 Summary of City Directory Search

Year	Address	Listing
1966	182 Lakeshore Road West 200 Lakeshore Road West 210 Lakeshore Road West 250 Lakeshore Road West 280 Lakeshore Road West 321 Lakeshore Road West 57 Port Street West	Canada Tire Corp. Fowlers B A Service Scott Motors Regent Refining and Texaco Canada Riverside Motors Port Credit Motors Fluney Oil Burners
1972/1973	181 Lakeshore Road West 182 Lakeshore Road West 212 Lakeshore Road West 250 Lakeshore Road West 280 Lakeshore Road West 321 Lakeshore Road West 57 Port Street West	Rocky's Westport Texaco Carter's Boat and Marine Peel Chrysler Plymouth Regent Refining and Texaco Canada Riverside Motors Phillips Chevrolet Fluney Oil Burners
1977/1978	150 Lakeshore Road West 181 Lakeshore Road West 182 Lakeshore Road West 212 Lakeshore Road West 280 Lakeshore Road West 321 Lakeshore Road West 57 Port Street West	Orbit Family Cleaners Co., and Pace Publishing Rocky's Westport Texaco Carter's Boat and Marine Peel Chrysler Plymouth Riverside Motors Phillips Chevrolet Fluney Oil Burners
1984	150 Lakeshore Road West 181 Lakeshore Road West 182 Lakeshore Road West 212 Lakeshore Road West 250 Lakeshore Road West 280 Lakeshore Road West 321 Lakeshore Road West 57 Port Street West 72 Wesley Avenue	Credit Village Clean Crs, and Pace Publishing Lakeshore Auto Services, Westport Texaco Gas Bar and Car Wash Carter's Marine Peel Chrysler Plymouth Texaco Canada Inc., and Texaco Chemicals Canada Riverside Motors Wood Chevrolet Fluney Oil Burners Reck J Auto Body
1989	121 Lakeshore Road West 150 Lakeshore Road West 181 Lakeshore Road West 182 Lakeshore Road West 212 Lakeshore Road West 266 Lakeshore Road West 280 Lakeshore Road West 321 Lakeshore Road West 362 Lakeshore Road West 57 Port Street West	Photoline Labs Creditview Petroleum and Pace Publishing Lakeshore Auto Services, Westport Texaco Gas Bar and Car Wash Carter's Marine Peel Chrysler Plymouth Rust Check Canada Riverside Auto Wood Chevrolet Paul's Cleaners Fluney Oil Burners
1994	11 John Street South 181 Lakeshore Road West 182 Lakeshore Road West 212 Lakeshore Road West	Carl's Maintenance Service Esso Imperial Oil, Lakeshore Auto Services, and Westport Esso Gas Bar and Car Wash Carter's Marine Peel Chrysler Plymouth

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Table 3 Summary of City Directory Search

Year	Address	Listing
	266 Lakeshore Road West	Rush Check Canada, Corvette Masters Stainless Steel Brakes, Metro 25 Tire Centre, and Rad Distributing
	280 Lakeshore Road West	Riverside Auto
	321 Lakeshore Road West	Wood Chevrolet
2000	49 Mississauga Road North	Briarwood Cleaners
	11 John Street South	Carl's Maintenance Service
	121 Lakeshore Road West	Wash-O-Matic Laundromat and Café
	150 Lakeshore Road West	Meena Cleaners
	181 Lakeshore Road West	Port Credit Esso
	182 Lakeshore Road West	Carter's Marine
	212 Lakeshore Road West	Peel Chrysler Plymouth
	224 Lakeshore Road West	One Hour Motophoto
	228 Lakeshore Road West	Cadet Cleaners
	260 Lakeshore Road West	Riverside Automotive
	266 Lakeshore Road West	Auto Safety Centre
	321 Lakeshore Road West	Wood Chevrolet

Based on the distance from the Phase One Property, inferred groundwater flow direction, and/or the nature of the operations, PCAs at 121 Lakeshore Road West, 57 Port Street West, and 11 John Street South were not expected to contribute to an APEC at the Phase One Property. Based on the proximity to the Phase One Property, the historical operation of dry cleaning equipment (where chemicals are used) at 150 and 228 Lakeshore Road West, the historical gasoline service station and/or vehicle repair shops at 181, 182, 200, 210, 212, 250, 266, 280, and 321 Lakeshore Road West and 72 Wesley Avenue, and the historical operation of refining operations at 250 Lakeshore Road West, were considered to represent PCAs contributing to APECs at the Phase One Property.

No other activities or operations that were considered to contribute to an APEC at the Phase One Property were identified in the city directory search for the Phase One Study Area.

4.3 ENVIRONMENTAL SOURCE INFORMATION

Available environmental databases and records were searched to determine if the Phase One Property and adjacent/neighbouring properties within the Phase One Study Area were listed. The pertinent databases and search results are presented in the following subsections.

4.3.1 National Pollutant Release Inventory (NPRI)

ERIS searched the *National Pollutant Release Inventory* and no properties within the Phase One Study Area were listed.

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4.3.2 PCB Storage Sites and Inventory Databases

ERIS searched the *National PCB Inventory* and the *Ontario Inventory of PCB Storage Site*. The Phase One Property (listed as address 10 Mississauga Road South) was listed as a PCB storage site with capacitors with high level PCBs, drums of ballasts, and other material (with high and low level PCBs) between 1992 and 2000. In addition, 250 Lakeshore Road West, located approximately 25 m west of the Phase One Property, was listed as a PCB storage site in 1992.

Historical records provided from the MOECC indicate that PCBs were temporarily stored in a locked steel shipping container located along the northeastern property boundary of the Phase One Property. The location of the historical PCB storage container was illustrated on a figure attached in an October 23, 1991 *PCB Site Inspection* report provided by the MOECC. The PCB container was reportedly located along the northeastern property boundary between Lake Street and Bay Street (refer to **Figure 3**). In a letter addressed to IOL dated June 18, 1998, the Ministry of the Environment (MOE) documented the inspection of a PCB waste storage container. The MOE noted the PCB waste was stored in 45-gallon metal drums (primary container), which were stored inside the shipping container (secondary containment). The shipping container was reported to be in good shape. A letter and waste manifest addressed to the MOE dated August 22, 2000, stated that the PCBs stored at the Phase One Property were disposed of at a licensed facility in Swan Hills, Alberta. Confirmatory testing of potential contaminated surfaces was conducted, prior to changing the status of the Site from an “active” PCB storage facility to a “historical” PCB storage facility. Although the PCB waste was reportedly removed, the historical storage of PCBs from electrical equipment was considered a PCA (transformer processing, use and bulk storage) that contributed to an APEC on the Phase One Property.

4.3.3 Certificates of Approval (CofA)

ERIS searched the *Certificates of Approval* database. Eight Certificates of Approval (CofAs) were listed for the Phase One Property. Nine records were identified for properties within the Phase One Study Area.

Five CofAs for the Phase One Property (between 1989 and 1995) were for industrial air; three were approvals, one was a revision, and one was a duplicate. One CofA was the preliminary approval of municipal sewage in 1991, one was for municipal water in 1995, and one was for industrial sewage works on the Phase One Property in 2009. These records are consistent with Stantec's understanding of historical site operations.

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4.3.4 MOECC Freedom of Information (FOI) Requests

4.3.4.1 Phase One Property

Requests were made to the MOECC for documents related to various environmental concerns pertaining to the Phase One Property (searches were requested for 10 and 70 Mississauga Road South, 181 Lakeshore Road West, and Lots 9, 10, and 11 Broken Front Concession, Toronto). The following is a summary of the responses:

- 181 Lakeshore Road West – Waiting for a response
- 70 Mississauga Road South – No records found
- 10 Mississauga Road South – Records available, summary follows
- Lots 9, 10, and 11 Broken Front Concession, Toronto – Records available and requested but not yet received

10 Mississauga Road South

A response was received for 10 Mississauga Road South, which consisted of 700 pages of information pertaining to the Phase One Property and historical refinery operations northwest of the Phase One Property (e.g., marketing and tank farm area at 250 Lakeshore Road West and historical activities at 70 Wesley Avenue and Park Street, outside the Phase One Study Area). The information included occurrence reports; former groundwater monitoring reports; industrial sewage and air CofA requests and approval notification; meeting minutes between IOL, consultants, and the MOECC; documents detailing the refinery decommissioning; laboratory certificates of analysis; engineering assessments regarding the installation of a bioreactor to treat groundwater and oily sludge from the Shale Pit; documents outlining a remedial clean up at 70 Wesley Avenue and along Park Street; confirmation of the Phase One Property as a generator and storage facility for PCBs, the transfer of PCBs from 250 Lakeshore Road West to the Phase One Property for storage, PCB container inspection reports, and finally the MOE acknowledging the off-site disposal of PCBs and confirmation that the Phase One Property was removed from the waste generator database.

Stantec reviewed the documents and determined that no new data were provided, with the following exceptions:

- Information regarding the extent VOC impacts in groundwater and soil, and pesticide exceedances in soil beneath the former Parson's Tire building at 70 Wesley Avenue located approximately 320 m northwest of the Phase One Property (June 17, 1998 Meeting Minutes, O'Connor Associates Environmental Inc.). 70 Wesley Avenue is located outside the Phase One Study Area, adjacent to former refinery Marketing Area (250 Lakeshore Road West) and therefore activities on this property were not expected to contribute to an APEC at the Phase One Property.

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- Information regarding former contamination along Park Street; results indicated that the bedrock was impacted and a pump and treat system was installed. This area was located outside the Phase One Study Area and therefore activities on this property were not expected to contribute to an APEC at the Phase One Property.
- A 19-acre (7.7 hectare) land farm area was located southeast of Indian Road and northwest of Queen Street West, and therefore outside of the Phase One Study Area. This was considered a licensed waste disposal area. Wastes associated with the petroleum refining process were last disposed of at this property in 1978. Based on the distance activities on this property were not expected to contribute to an APEC at the Phase One Property.
- The former slip at the southeastern corner of the Phase One Property was infilled with concrete rubble and fill from the demolition of the south property buildings (*Port Credit South Property Perimeter and Ship Dock Area 1996 Groundwater Monitoring Program Results and 1997 Monitoring Program Recommendations*, Memorandum, IOL, May 26, 1997)
- A leak of BTX feedstock from former tank TK226 (formerly located west of recovery trench C and within the Northeast Tank Farm), was reportedly the likely source of elevated benzene concentrations at boreholes 92-322 and 92-318. The trench was reportedly used as a barrier to prevent further migration of COC (*Port Credit South Property Perimeter and Ship Dock Area 1996 Groundwater Monitoring Program Results and 1997 Monitoring Program Recommendations*, Memorandum, IOL, May 26, 1997). The location of former tank TK226 is shown on **Figure 3**.
- On June 3, 1996, representatives from the MOEE, IOL, and O'Connor Associates Environmental Inc. (O'Connor) attended a meeting to discuss chlorinated solvent contamination from the former Texaco Marketing Area (located northwest of the Phase One Property at 250 Lakeshore Road West). The following additional topics associated with the Phase One Property were discussed during the meeting and were documented in the meeting minutes provided by O'Connor:
 - During a "Duty of Care" work program, approximately 200 truckloads of impacted soils were removed from an excavation along the south shoreline.
 - IOL confirmed that the excavated soil was stored in a defined area of the Phase One Property. No further details were provided in the June 3, 1996 meeting minutes.
 - The storage of potentially impacted material on the Phase One Property represents a PCA (fill material) that has contributed to an APEC. The location of the impacted stockpiled soil was not provided.
- A suspected PCB spill was reported by Esso Petroleum Canada on January 13, 1992. An inspection of the "butler building", which was used as a storage warehouse, identified a broken bushing and oil suspected to contain PCBs observed on the floor. Samples were recovered and five samples recovered from the bushing insulation were reported to contain PCBs. The concrete floor was wiped clean with solvent soaked rags and was reported to be clean of PCB residues. In addition, PCB-contaminated bushings were placed in drums and transported to an approved storage facility. The location of this release could not be confirmed based on the information provided.

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- Esso Petroleum Canada sent a letter to the MOE documenting the transfer of two barrels containing fluorescent light capacitors from 250 Lakeshore Road West to the PCB storage container located on the Phase One Property on March 26, 1991. This is consistent with Stantec's understanding of the PCB storage facility on the Phase One Property. The letter also documented that a trench was installed along the southeastern and northeastern sides of the Phase One Property to act as a barrier between the possible migration of contaminants, the Waterfront Trail and Lake Ontario. The location of the trench was not confirmed in the 1991 letter; however, a site plan provided as part of the FOI response (*Port Credit South Property Perimeter and Ship Dock Area 1996 Groundwater Monitoring Program Results and 1997 Monitoring Program Recommendations*, Memorandum, IOL, May 26, 1997) depicted the location of several trenches, which are shown on **Figure 3**.

4.3.4.2 Adjoining Properties

Requests were also made to the MOECC for the following adjoining properties to the south and east of the Phase One Property:

- 305 Lakeshore Road West – No records found
- 3 Pine Avenue South – No records found
- 5 Pine Avenue South – No records found
- 7 Pine Avenue South – Waiting for a response
- 9 Pine Avenue South – No records found
- 11 Pine Avenue South – No records found
- 13 Pine Avenue South – No records found
- 15 Pine Avenue South – No records found
- 17 Pine Avenue South – No records found
- 19 Pine Avenue South – No records found
- 21 Pine Avenue South – No records found
- 21A Pine Avenue South – No records found
- 23 Pine Avenue South – No records found
- 25 Pine Avenue South – No records found
- 27 Pine Avenue South – No records found
- 29 Pine Avenue South – No records found
- 31 Pine Avenue South – No records found
- 33 Pine Avenue South – No records found
- 35 Pine Avenue South – No records found
- 37 Pine Avenue South – No records found
- 39 Pine Avenue South – No records found
- 41 Pine Avenue South – No records found
- 43 Pine Avenue South – No records found
- 45 Pine Avenue South – No records found
- 47 Pine Avenue South – No records found
- 49 Pine Avenue South – Records available (see below)

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- 51 Pine Avenue South – No records found
- 53 Pine Avenue South – No records found
- 59 Maple Avenue South – No records found
- 61 Maple Avenue South – No records found
- 63 Maple Avenue South – No records found
- 67 Maple Avenue South – No records found
- 69 Maple Avenue South – No records found
- 73 Maple Avenue South – No records found
- 75 Maple Avenue South – No records found
- 53 Lake Street – Records available (see below)

Adjoining properties to the northwest and northeast are roadways, and therefore a request was not made to the MOECC for records for these properties.

49 Pine Avenue South

A response was received for 49 Pine Avenue South, which consisted of an occurrence report dated July 20, 1998. An unknown green material with a sewage odour was reported to be floating at the beach. The green material was investigated and determined to be algae. The case was closed. The presence of algae was not expected to contribute to an APEC at the Phase One Property.

53 Lake Street

A response was received for 53 Lake Street (municipal address that pertains to J.C. Saddington Park, located immediately northeast of the Phase One Property), which consisted of an incident report dated April 24, 2010. An email tip was provided to the MOE that reported dumping of debris and refuse into Lake Ontario at J.C. Saddington Park. Two photographs displaying the debris were included. On November 1, 2011, a MOE employee visited the park to assess the complaint; however, they reported that what was observed along the shoreline appeared to be natural rather than a result of illegal dumping. A map identifying the location of 53 Lake Street waste disposal site, identified as containing clean fill and garbage was included. In addition, two aerial photographs were provided, one from 1954, when J.C. Saddington Park was not yet developed. The documents did not provide any new data. However, historical records indicate that a former landfill operated at 53 Lake Street, prior to development as J.C. Saddington Park. The former presence of a landfill immediately northeast of the Phase One Property, is a PCA considered to contribute to an APEC at the Phase One Property.

The responses received from the MOECC indicated that an additional search could be performed at an additional cost for Environmental Compliance Approvals (ECAs)/CofAs pertaining to the properties listed above. Stantec elected not to request the additional search since a search of ECAs/CofAs for the Phase One Study Area was completed in the ERIS report (described in Section 4.3.13 and included in **Appendix D-2**). Copies of the MOECC responses are included in **Appendix D-3**.

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4.3.5 Coal Gasification Plant Waste Sites

Stantec reviewed the report entitled *Inventory of Coal Gasification Plant Waste Sites in Ontario, (Volumes I and II)*, dated April 1987, prepared by Intera Technologies Ltd. for the MOE. The documents include an inventory of known coal gasification plants historically operating in Ontario. Based on a review of this report, no properties within the Phase One Study Area were listed as former coal gasification plants.

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

Stantec reviewed the report entitled *Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario, (Volumes I and II)*, dated November 1988, prepared by Intera Technologies Ltd. for the MOE. The documents identify industrial sites that produced and/or continue to produce or use coal tar and other related tars. Based on a review of this report, no properties within the Phase One Study Area were listed as industrial sites producing or using coal tar.

4.3.7 Hazardous Waste Generators and Receivers

ERIS searched the *Ontario Regulation 347 Waste Generators Summary* database for the Phase One Study Area. There were 62 waste generator records identified; 15 of the records were associated with the historical presence of a gasoline service station and oil refinery on the Phase One Property. The Phase One Property was identified to be a generator of at least one of the following waste classes between 1986 and 2015: light fuels, PCBs, petroleum waste oil skimmings and sludges, waste oils and lubricants, and halogenated solvents. The waste generated associated with the historical presence of a gasoline service station located on the Phase One Property along with the historical operation as an oil refinery and petrochemical storage facility represent PCAs considered to contribute to an APEC at the Phase One Property.

Refer to Section 6.4 for a detailed description of waste generators and receivers identified within the Phase One Study Area.

4.3.8 Technical Standards and Safety Authority (TSSA)

A request was made to the TSSA for a search of their files regarding tank installations, fueling facilities, outstanding instructions, incident reports, fuel oil spills and/or contamination records for the Phase One Property. The TSSA response indicated that the TSSA has no record of any outstanding instructions, incident reports, fuel oil spills, or contamination records pertaining to 10 Mississauga Road South and 70 Mississauga Road South. A copy of the response from the TSSA is provided in **Appendix D-3**. A response to the request for information for 181 Lakeshore Road West was still outstanding.

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ERIS searched the *TSSA Expired Facilities*, *TSSA Incidents and Historic Incidents*, *TSSA Pipeline Incidents*, and *TSSA Variances for Abandonment of Underground Storage Tanks* databases for properties within the Phase One Study Area.

The ERIS report identified 12 *TSSA Expired Facility* records, five *TSSA Incidents*, one *TSSA Pipeline Incident*, and one *Private and Retail Fuel Storage Tank* record for properties located within the Phase One Study Area. No records were identified that were considered to contribute to an APEC at the Phase One Property, with the exception of a 10 L furnace oil leak resulting from a pipeline hit at 15 Harrison Avenue in 2014 and a reported expired (1991) facility at 280 Lakeshore Road West. A detailed explanation of the records included within the ERIS report is included on Section 6.4.

The ERIS report identified four *Fuel Storage Tank* records registered to 181 Lakeshore Road West (the Phase One Property). Three double-walled fiberglass USTs were installed in 1996 with the capacity to store 45,460 L of gasoline, and one double-walled fiberglass UST with the capacity to store 25,000 L of gasoline was installed in 2010. The three USTs installed in 1996 were also identified on the *Fuel Storage Tank – Historic* database. The ERIS report also identified one record for the northern corner of the Phase One Property on the *Private and Retail Fuel Storage Tank* database, identifying a retail fuel tank with the expiry date of July 31, 1995.

The historical presence of USTs associated with the former gasoline service station on the northern corner of the Phase One Property represents a PCA with the potential to contribute to an APEC at the Phase One Property.

4.3.9 Records of Site Condition (RSC)

ERIS searched the *Record of Site Condition* database for the Phase One Study Area. Based on the information provided, one RSC was reportedly filed for a property in the Phase One Study Area. In August 2009, a RSC was filed for 321 Lakeshore Road West and 7 Maple Avenue South, Mississauga (located approximately 65 west of the Phase One Property). The historical operation of a vehicle dealership and repair shop with associated waste generation at this property is considered to be a PCA contributing to an APEC at the Phase One Property.

4.3.10 Waste Disposal Sites

Stantec reviewed the information contained in the MOE document entitled *Waste Disposal Site Inventory*, dated June 1991. The report includes a list of known active and closed waste disposal sites in Ontario, as of October 31, 1990. Based on the information reviewed, four closed waste disposal sites were listed within 1 km of the Phase One Property.

Waste disposal sites identified as numbers 220107 and 220108 were closed in 1980 and 1982, respectively. Based on the coordinates provided in the MOE database, these two closed landfills were located approximately 430 m northwest of the Phase One Property, adjacent to the rail lines northwest of the former refinery operations at 250 Lakeshore Road West. In addition, ERIS

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searched the *Waste Disposal Sites – MOE CA Inventory* database (data compiled from the MOE CofA database) for properties within the Phase One Study Area. Based on the additional information provided from the MOE CofA database in the ERIS report, these two waste disposal sites were identified within the portion of the Phase One Study Area associated with 250 Lakeshore Road West. Both records indicate that Texaco Canada Ltd. (250 Lakeshore Road West) was identified as a revoked waste disposal site. The historical refinery operations on this property represent a PCA that has contributed to an APEC on the Phase One Property.

Waste disposal site number 7069 was formerly located approximately 260 m north of the Phase One Property and reportedly closed in 1960. Based on the distance and the inferred groundwater flow direction, this waste disposal site was not expected to contribute to an APEC at the Phase One Property.

The J.C. Saddington Park waste disposal site (number 7070) located immediately adjacent to the northeastern boundary of the Phase One Property was identified as closed in the MOE database; however, the coordinates provided do not place the landfill record at the location of J.C. Saddington Park, but rather on the eastern corner of the Phase One Property.

The ERIS report identified two records in the *Anderson's Waste Disposal Sites* database, which were for the former J.C. Saddington Park Dump. This site which was listed as active between 1964 and 1974. The notes included with these records include a discussion that the coordinates provided in the MOE database appear to be incorrect.

In an electronic mail to Stantec, dated July 18, 2017, a Region of Peel employee stated that the J.C. Saddington Park Dump was likely used for the disposal of construction, demolition, and residential wastes. Records reportedly show that methane gas monitoring was last performed at Saddington Park in the fall of 1993, and the results of the monitoring reportedly indicated that methane gas was not detected. The Region of Peel contact provided a site plan confirming the location of the J.C. Saddington Park Dump at the current location of J.C. Saddington Park; this correspondence is included for reference in **Appendix D-4**.

The presence of a former waste disposal facility immediately northeast of the Phase One Property represents a PCA that has contributed to an APEC at the Phase One Property.

4.3.11 Ontario Spills

ERIS searched the *Ontario Spills* database for the Phase One Study Area. Based on the information provided, 14 spills were identified within the Phase One Study Area. Two spills may have occurred on the Phase One Property, one in 1988 when 25 L of PCB-contaminated oil was released to the ground in the Trans-Northern Pipeline yard located on the "corner of the Old Texaco Refinery". The specific location on the Phase One Property could not be confirmed and Stantec has requested additional records from the MOECC pertaining to this spill to evaluate whether it would contribute to an APEC at the Phase One Property. The second spill occurred in 1998 on the former Esso service station property when 2 L of gasoline was released due to an

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equipment failure. The historical operation of a pipeline and gasoline service station on the Phase One Property represent PCAs that were considered to contribute to APECs. For a discussion of additional spills identified within the Phase One Study Area please refer to Section 6.4.

4.3.12 Scotts Manufacturing Directory

ERIS searched *Scotts Manufacturing Directory* database for the Phase One Study Area. Based on the information provided, no records were identified for the Phase One Property, and 12 records were identified within the Phase One Study Area. Refer to Section 6.4 for a detailed discussion of the manufacturing operations identified within the Phase One Study Area.

4.3.13 EcoLog ERIS

A request was made to EcoLog ERIS for searches of environmental databases pertaining to the Phase One Property and Phase One Study Area. The complete report, including a drawing illustrating the search area, is provided in **Appendix D-2**. Records of environmental significance within the Phase One Study Area are summarized in Section 6.4. The remaining listings in the ERIS report were not expected to contribute to an APEC at the Phase One Property based on the nature of their operations and/or the separation distance of these properties from the Phase One Property.

4.4 PHYSICAL SETTING SOURCES

4.4.1 Aerial Photographs

The following aerial photographs and satellite imagery were reviewed for the Phase One Study Area:

- 1931, 1956, 1960, 1965, 1968, 1980, 1973, 1983, 1986 and 2000 from the 2013 Exp Phase I Report
- 1954, 1966, 1975, 1977, 1985, 1989, 1992, 1995, 2000, 2005, 2010, and 2015 from the City of Mississauga Website
- 1946, 1950, 1964, 1967, and 1978 from Stantec's internal collection

Because the Phase One Property was first developed in the 1800s, aerial photographs from that time period were not available. The 1931 aerial photograph was the earliest available aerial photograph available from the National Air Photo Library. The time period between photographs was deemed adequate to identify PCAs within the Phase One Study Area. Information gleaned from the aerial photography is provided in **Table 4**.

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Table 4 Aerial Photograph Summary

Date	Phase One Property	Phase One Study Area
1931	The Phase One Property was largely undeveloped, with the exception of the Shale Pit and brickyard activities in the southeastern portion of the Phase One Property and the railway entering the Phase One Property off Lakeshore Road West. Various unidentified buildings were present along the northeastern property boundary (along Mississauga Road South) and northern corner of the Phase One Property (former gasoline service station property at 181 Lakeshore Road West).	Development within the Phase One Study Area was apparent northeast of the Phase One Property. The properties immediately north and west of the Phase One Property were mainly undeveloped. 53 Lake Street was undeveloped (J.C. Saddington Park).
1946	The Phase One Property appeared to be operating as a refinery with visible tanks in the northern and central portions of the Phase One Property. The Shale Pit was present.	The majority of the Phase One Study Area appeared to be comprised of residential and commercial land. Development had begun at 53 Lake Street. The property northwest of the Phase One Property across Lakeshore Road West remained largely undeveloped.
1950	The refinery operations present in the 1946 aerial photograph had expanded to include the majority of the Phase One Property.	No significant changes from the 1946 aerial photograph, with the exception that the former undeveloped land northwest of the Phase One Property was comprised of residential dwellings and a commercial building was located at 250 Lakeshore Road West (refinery marketing building).
1954	No significant changes from the 1950 aerial photograph, with the exception of an additional tank west of the Shale Pit.	Three tanks associated with the northern tank farm, located south of Indian Road and north of the railway were present.
1956	No significant changes from the 1954 aerial photograph, with the exception of three additional tanks along the northwestern property boundary and one tank west of the Shale Pit.	No significant changes from the 1954 aerial photograph. The northern tank farm identified in the 1954 aerial photograph was not included on the 1956 aerial photograph, so it is unknown if this area expanded. Additional development had occurred at 53 Lake Street (J.C. Saddington Park).
1960	No significant changes from the 1956 aerial photograph, with the exception that the northwestern portion of the slip had been infilled.	An additional seven tanks (totaling 10) were located within the northern tank farm.
1965	No significant changes from the 1960 aerial photograph, with the exception that the northwestern portion of the Shale Pit had been infilled, the slip had been further infilled to the southeast, and the waterfront property line had been infilled.	An additional three tanks (totaling 13) are located within the northern tank farm.

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Table 4 Aerial Photograph Summary

Date	Phase One Property	Phase One Study Area
1966, 1967, 1968, 1973, 1974, and 1975	No significant changes from the 1965 aerial photograph.	No significant changes from the 1965 aerial photograph, with the exception of the continued development and construction of commercial buildings at 250 Lakeshore Road West and infilling activities along the shoreline at J.C. Saddington Park (53 Lake Street).
1977	No significant changes from the 1975 aerial photograph.	An additional tank (totaling 14) was located within the northern tank farm. J.C. Saddington Park (53 Lake Street) has been infilled to current configuration.
1980	No significant changes from the 1977 aerial photograph.	One of the 14 tanks in the northern tank farm in the 1977 aerial photograph was no longer present. The buildings formerly present at 53 Lake Street have been demolished.
1983	No significant changes from the 1980 aerial photograph.	No significant changes from the 1980 aerial photograph. The northern tank farm identified in the 1977 and 1980 aerial photographs was not included on the available 1983 aerial photograph, so it is unknown if this area changed.
1985	No significant changes from the 1983 aerial photograph.	Two tanks are no longer present at the northern tank farm (a total of 11 remain). Two parking lots located along Mississauga Road South appeared to be present at 53 Lake Street.
1986	The tanks on the western portion of the Phase One property have been decommissioned.	No tanks were visible at the northern tank farm.
1989	The majority of the refinery historically present on the Phase One Property had been removed with the exception of buildings along the northeastern property boundary and various tanks and associated equipment immediately south and southwest of the Shale Pit. The railway lines had been removed from the Phase One Property.	The most northern buildings at 250 Lakeshore Road West have been demolished.
1992	No significant changes from the 1989 aerial photograph.	No buildings present on the 250 Lakeshore Road West property.
1995	All tanks associated with former refinery operations on the Phase One Property had been removed and the slip had been infilled. Additional buildings on-site had been demolished.	The commercial property located at 250 Lakeshore Road West was redeveloped and contained a parking lot and six separate buildings.
2000	No significant changes from the 1995 aerial photograph.	No significant changes from the 1995 aerial photograph.

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Table 4 Aerial Photograph Summary

Date	Phase One Property	Phase One Study Area
2002	No significant changes from the 2000 aerial photograph.	Construction of a residential neighbourhood and storm water management pond was in progress in the former northern tank farm area.
2005	No significant changes from the 2002 aerial photograph.	Residential neighbourhood under construction in the 2002 aerial photograph was completed.
2010 and 2015	No significant changes from the 2005 aerial photograph. The gasoline service station located in the northern corner of the Phase One Property was present.	No significant changes from the 2005 aerial photograph.

4.4.2 Topography, Hydrology, and Geology

4.4.2.1 Topography and Regional Drainage

The topography at the Phase One Property was observed to be relatively flat with slight undulations and/or local grading. Regional topography generally slopes to the southeast toward Lake Ontario and the inferred groundwater flow direction was interpreted to be to the southeast (Exp, 2015).

A site location plan showing the Phase One Property, water bodies and regional topography is provided on **Figure 1, Appendix A** and an Ontario Base Map of the Phase One Study area is included in **Appendix D-2**.

It should also be noted that the elevation of the local groundwater table can generally mimic the local topography and may not reflect the regional trend in drainage. The local shallow groundwater flow pattern also can be influenced by subsurface utility infrastructure.

4.4.2.2 Hydrology and Surface Water Drainage

Grass, low-lying vegetation, trees, and asphalt surfaces generally cover the ground surface of the Phase One Property. Storm water is anticipated to drain either by infiltration or by overland flow. During the site visit, the Shale Pit was observed in the southern portion of the Phase One Property. The Shale Pit was historically used as a storm water management pond and wastewater treatment pond.

4.4.2.3 Surficial Geology

Based on information obtained from the Ontario Geological Survey (OGS) surficial geology map (OGS Map 2556), native surficial soils on the Phase One Property and in the Phase One Study Area are mapped as glaciolacustrine deposits, which are reported to contain sand, gravel, and gravelly sand, nearshore and beach deposits.

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ERIS reported 32 water well records within 250 m of the Phase One Property. The borehole logs provided in Stantec's 2017 due diligence report for the Phase One Property indicated that the soil profile generally consisted of topsoil at the ground surface with fill material, sandy silt/silt/clayey silt observed within increasing depth (refer to Section 4.4.3 for a detailed discussion regarding fill material). During this investigation, the depth of fill material (including bricks, wood, concrete, asphalt, and plastic) ranged from 0.2 m to 5.3 m BGS, underlain by sand (including trace clay) and shale to the maximum depth of the borehole (6.4 m BGS) (Stantec, 2017).

4.4.2.4 Bedrock Geology

Based on information obtained from the OGS bedrock geology map (OGS Map 2544), bedrock in the area of the Phase One Property is reported to consist of shale, limestone, dolostone, and siltstone of the Georgian Bay Formation. Stantec's 2017 due diligence investigation identified shale bedrock, and the rock quality generally transitioned from weathered to competent with increasing depth. The depth to bedrock was reported to range from 2.3 m BGS to 5.5 m BGS (Stantec, 2017).

4.4.3 Fill Materials

Prior to 1933, shale and/or clay was extracted from the Shale Pit and used in brick manufacturing operations (Port Credit Weekly Focus, 1965), which occurred in the southeastern portion of the Phase One Property. The northwestern portion of the Shale Pit was subsequently infilled with fill material of unknown environmental quality. **Figure 3** presents various areas of the Phase One Property that are considered to likely contain fill material of unknown quality, including historical building footprints, and the infilling of the Shale Pit, harbour inlet (slip), shoreline, and former creek on the northeastern portion of the Phase One Property.

Previous historical reports identified fill material (including bricks, wood, concrete, asphalt, and plastic) across the Phase One Property, extending to a maximum depth of 5.3 m BGS (Stantec, 2017).

Fill material including asphalt, brick, concrete, wood, and gravel was observed on the Phase One Property during the reconnaissance visit. In addition, various grass-covered berms were identified across the Phase One Property and are shown on **Figure 5**. The environmental quality of the material that comprises the grass-covered berms could not be determined during the Phase One ESA. The interview contact, Dr. Doug Blue, reported that the former tank farm located north of the rail line and south of Indian Road (250 Lakeshore Road West), was remediated in the 1990s. The soil removed from this area that had concentrations of COC greater than the applicable standards at the time was reportedly transported to the Phase One Property and used to create the berm located along the southeastern property boundary.

The presence fill material of unknown environmental quality on the Phase One Property represents the a PCA that has contributed to an APEC at the Phase One Property.

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4.4.4 Water Bodies and Areas of Natural Significance

No water bodies were observed at the Phase One Property. Lake Ontario is located immediately southeast of the Phase One Property. The Shale Pit on the Phase One Property was initially used for resource extraction and subsequently used for management of storm water and wastewater on the Phase One Property, and therefore was not considered to be a water body under the definition of O.Reg.153/04.

A map was generated from the Ministry of Natural Resources and Forestry (MNR) website. Based on the information presented, the Phase One Study Area contains no Areas of Natural or Scientific Interest (ANSIs) and is not within an area under which the *Oak Ridges Moraine Conservation Act* or the *Niagara Escarpment Planning and Development Act* apply.

ERIS conducted a search for ANSIs within the Phase One Study Area (**Appendix D-1**). No ANSIs were identified within the Phase One Study Area; however, two ANSIs, Lorne Park Prairie, and Credit River Coastal Marsh, were identified greater than 250 m west of the Phase One Property and are not expected to influence the determination of APECs and evaluation of the conceptual site model.

4.4.5 Well Records

ERIS searched the *Water Well Information System* (WWIS) database, which describes locations and characteristics of water wells found within the Phase One Study Area in accordance with Regulation 903.

Two well records were reported in the ERIS search for the Phase One Property. The two wells were reportedly installed in 2013 and 2015; no other information was provided. However, Stantec technicians completed a well inventory in June 2017 and reported that 217 previously installed monitoring wells and eight previously installed soil vapour probes (VP1 to VP8) were present at the Phase One Property. The approximate location of the current monitoring wells on the Phase One Property are included for reference on **Figure 4**. Based on recent groundwater monitoring events completed by Stantec at the Phase One Property, the depth to groundwater ranged from 0.3 m BGS to 6.8 m BGS in the overburden monitoring wells and from 0.08 m BGS to 16.5 m BGS in the bedrock wells (Stantec, 2017).

The ERIS report indicated that there were 30 well records for wells installed between 2004 and 2014 for the Phase One Study Area. Fourteen of these wells were noted to be observation wells, six were test holes, four were monitoring wells and test holes, two were abandoned, and the well status of the four other wells within the Phase One Study Area was reported as unknown. The approximate location of these water wells and general stratigraphy are included in the ERIS report, included in **Appendix D-2**. These wells were not considered to contribute to an APEC at the Phase One Property.

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4.5 SITE OPERATING RECORDS

Given the historical refinery and brick operations on the Phase One Property, the Phase One Property was deemed an Enhanced Investigation Property, as defined in O.Reg.153/04. Additional operating records were requested pertaining to the following:

- Regulatory permits
- Material safety data sheets
- Underground utility drawings
- Inventories of chemicals, chemical usage, and chemical storage areas
- Inventories of USTs and ASTs
- Environmental monitoring data
- Waste management records
- Process, production, and maintenance documents related to the historical waste disposal operations at the Site
- Records of spills and records of discharges of contaminants
- Emergency response and contingency plans
- Environmental audit reports and
- Site plans showing areas of production and manufacturing

Reports detailing previous environmental investigations and environmental monitoring data for the Phase One Property were provided by IOL and their consultants Exp. No additional records pertaining to the Phase One Property were available. However, historical fire insurance plans, historical environmental investigation reports completed by others, historical documents provided by the MOECC, and database searches completed by ERIS have provided information pertaining to chemical usage and storage, USTs and ASTs, waste management records, historical process and production operations, and records of spills and discharges. This information is summarized in relevant sections of the report.

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5.0 INTERVIEWS

The objectives of conducting Phase One ESA interviews are to obtain information to assist in determining if a PCA exists, and to identify details of PCAs or potential contaminant pathways, in, on or under the Phase One Property.

On August 9, 2017 at 10:30 am, a telephone interview was conducted with Dr. Doug Blue, of IOL, who was associated with the Phase One Property between 2000 and 2014. Dr. Blue confirmed that the northwestern end of the Shale Pit was infilled with debris found on-site, and he believed that the material they used for the infilling may have influenced the contamination found in the monitoring wells northwest of the Shale Pit. In addition, Dr. Blue reported that when the off-site northern tank farm, located south of Indian Road (250 Lakeshore Road West), was remediated in the 1990s, the material that exceeded the then-applicable guidelines was transported to the Phase One Property and used as fill material for the berm located along the southeastern property boundary. Dr. Blue also reported a benzene release occurred on the Phase One Property prior to 1978 associated with an aromatics unit. The aromatics unit was located within the Process Area and its primary function was to strip out chemical components for chemical processing and future use in other products. The volume of benzene released from the aromatics unit was unknown; however, the resulting benzene plume was noted to be extensive. In the 1990s, cut-off trenches were installed to treat on-site groundwater, and to attempt to reduce the potential for benzene to migrate off-site. Dr. Blue did not specify the location of the trenches; however, information provided by the MOECC from O'Connor (1997) included a site plan illustrating the location of various former trenches along the southeastern and northeastern property boundaries and a feature referred to as "trench C" located in the Northeast Tank Farm.

Information gathered during the interview and received during the reporting process has been included in the applicable sections of the report.

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6.0 SITE RECONNAISSANCE

6.1 GENERAL REQUIREMENTS

A site reconnaissance was conducted by Ms. Breanne Graham, BA (Hon.), of Stantec on July 17, 2017 between 9:00 am and 2:30 pm. During the site reconnaissance, the weather was clear with an approximate temperature of 25°C. The Phase One Property and readily visible and publicly accessible portions of adjoining and neighbouring properties within the Phase One Study Area were observed for the presence of PCAs and APECs. Assessor qualifications are provided in **Appendix C**.

The Site was vacant, and Stantec was unaccompanied during the site reconnaissance and assessment of the readily visible and publicly accessible Phase One Property and accessible portions of adjoining and neighbouring properties within the Phase One Study Area. Wooded areas in portions of the Phase One Property limited visibility. The former gasoline service station property located in the northern corner of the Phase One Property was fenced and locked, and the API separator had a locked gate surrounding it. As a result, both features were inaccessible. The three vacant buildings (carwash and kiosk buildings located at 181 Lakeshore Road West and the fire hall) were not accessible during the reconnaissance visit due to safety concerns.

A site plan showing neighbouring properties within the Phase One Study Area is provided on **Figure 2**, historical site details are provided on **Figure 3**, the current monitoring wells on-site (as of June 2017) are displayed on **Figure 4**, current site features are shown on **Figure 5**, and APEC locations are shown on **Figure 6**, **Appendix A**. Selected photographs of the Phase One Property and surroundings are included in **Appendix B**.

6.2 SPECIFIC OBSERVATIONS AT PHASE ONE PROPERTY

6.2.1 Property Information

The Phase One Property is located on the southwestern corner of Mississauga Road South and Lakeshore Road West, and is bounded by Lakeshore Road West to the northwest, Mississauga Road South to the northeast, Lake Ontario to the southeast and residential dwellings to the southwest along Pine Avenue South. The Phase One Property has an area of approximately 29.4 hectares (72.8 acres), described as municipal address 70 Mississauga Road South, Mississauga, Ontario.

The Phase One property is currently vacant, with a vacant car wash and kiosk building on the former gasoline service station property at 181 Lakeshore Road West, a vacant former fire hall building and a vacant sea container located along Mississauga Road South, the Shale Pit, former API separator located south of the Shale Pit, and the Waterfront Trail along the southeastern boundary of the Phase One Property. At the time of the site reconnaissance (July 17, 2017), most the Phase One Property was not in use, with the exception of the portion of the

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Waterfront Trail located within the southeastern boundary of the Phase One Property, which was used for public recreational purposes. With the exception of the portion of the Site along the Waterfront Trail, access to the Site is controlled by a perimeter fence. The Phase One Property is located in an area of mixed commercial and residential property use.

6.2.2 Property Buildings & Structures

Three vacant buildings and one vacant sea container were located on the Phase One Property. The interior buildings and sea container were not observed during the site reconnaissance due to safety concerns associated with the structural integrity of the buildings.

The location of each on-site building is illustrated on **Figure 5**. Additional details on the building are included in **Table 5**, Section 6.2.5.

6.2.3 Aboveground and Underground Storage Tanks

No chemical or fuel USTs or ASTs were identified to be present at the Phase One Property at the time of the site reconnaissance.

None of the historical ASTs or USTs associated with the former refinery or gasoline service station operations were observed to be present on the northern, northwestern, western, and southern portions of the Phase One Property.

No vent or fill pipes indicating the potential presence of abandoned or decommissioned ASTs or USTs were observed at the Phase One Property. Based on the historical information reviewed, the presence of former ASTs and USTs is a PCA that has contributed to an APEC at the Phase One Property.

6.2.4 Underground Utilities and Services

The Plan of Survey for the Phase One Property is included in **Appendix D-5**.

It is likely that underground utilities associated with various former buildings and operations on-site are present. However, no evidence of underground utilities was observed at the Phase One Property at the time of the site reconnaissance, with the exception of former waterlines running along the northwestern and southwestern property boundaries. The exact location of these utilities was not determined during the Phase One ESA.

6.2.5 Site Building Features

Three vacant buildings and one sea container were located on the Phase One Property but were not accessed.

Table 5 provides a summary of various features associated with the site buildings based on observations made at the time of the site reconnaissance.

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Table 5 Site Building Features

Building	Former Fire Hall	Former Gasoline Service Station Kiosk Building	Former Car Wash
Location On-Site	Northeastern Property Boundary	Northern Corner of the Phase One Property	Northern Corner of the Phase One Property
Use	Former fire hall and office	Former commercial retail store	Former commercial car wash
Age	Unknown	Unknown	Unknown
Floor Area	Approximately 130 m ²	Approximately 130 m ²	Approximately 120 m ²
Storeys	1	1	1
Slab-On-Grade	Yes	Unknown	Unknown
Basement (depth)	No	Unknown	No
Underground Parking (Depth)	No	No	No
Construction	Unknown	Unknown	Unknown
Entry and Exit Points	Six former entry/exit points	One main entry/exit point	Two entry/exit points
Current/Former Heating Systems	Unknown	Unknown	Unknown
Current/Former Cooling Systems	Unknown	Unknown	Unknown
Drains/Sumps/Pits	Unknown	Unknown	Unknown
Unidentified Substances	Unknown	Unknown	Unknown
Staining or Corrosion	None observed from exterior	None observed from exterior	None observed from exterior
Additions/Renovations	Unknown	Unknown	Unknown
Additional Comments	None	None	None

6.2.6 Wells

A well inventory list was compiled by Stantec technicians in June 2017. A total of 217 groundwater monitoring wells and eight soil vapour probes were reported to be present at the Phase One Property. Refer to Section 4.4.5 and **Figure 4** for additional information regarding monitoring well and soil vapour probe locations.

6.2.7 Sewage Works

No septic tanks or septic tile beds were observed to be present at the Phase One Property.

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An inactive API separator that was used to separate the oil and suspended solids from the wastewater effluent generated during refinery operations was observed to the south of the Shale Pit during the site reconnaissance. The historical separator identified on the 1952 FIP and the separator indicated by Exp to be located adjacent to the fire hall (Exp, 2013) were not observed during the site reconnaissance.

6.2.8 Surface Features

The exterior portions of the Phase One Property, with the exception of the site buildings, generally comprised former asphalt roadways, low-lying vegetation, grass, wooded areas, and the Shale Pit. No other pits, lagoons, or ditches were observed at the Phase One Property.

6.2.9 Current or Former Railway Lines or Spurs

No evidence of the former railway lines was observed during the Phase One Site visit. However, the 1928 and 1952 FIPs confirmed the presence of former rail lines on the Phase One Property (Refer to **Appendix D-2**). Based on the review of aerial photographs the rail lines were likely removed from the Phase One Property as part of the refinery decommissioning activities sometime between 1986 and 1989. **Figure 3** illustrates the approximate locations of former rail lines on the Phase One Property.

6.2.10 Surface Staining and Stressed Vegetation

No stained surficial materials or stressed vegetation were observed at the Phase One Property, with the exception of black staining observed on the concrete immediately south of the former fire hall building. The concrete appeared to be in good condition.

6.2.11 Imported Fill and Debris

Dumped debris, refuse, and fill material was identified at the time of the site reconnaissance, including asphalt, brick, concrete, wood, and gravel. In addition, grass covered berms were identified along the southeastern, northwestern, and southwestern Phase One Property boundaries. The environmental quality of the material used to construct the grass covered berms could not be determined during the Phase One ESA site visit. **Figure 5** identifies various areas of the Phase One Property that were observed to contain dumped debris during the site visit. For further details regarding fill material on the Phase One Property, refer to Section 4.4.3.

The presence of fill material of unknown environmental quality on the Phase One Property, represents the a PCA that has contributed to an APEC at the Phase One Property.

6.2.12 PCAs

Other than the PCAs previously described in this section, no other PCAs were identified during the site reconnaissance.

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6.2.13 Unidentified Substances

No unidentified substances were identified during the site reconnaissance.

6.3 ENHANCED INVESTIGATION PROPERTY

Given the historical brick manufacturing, and oil and petrochemical refining operations on the Phase One Property, the Phase One Property was deemed an Enhanced Investigation Property, as defined in O.Reg.153/04.

6.3.1 Processing and Manufacturing Operations

The Phase One Property was vacant at the time of the site reconnaissance; therefore, no processing or manufacturing operations were observed on the Phase One Property.

6.3.2 Hazardous Materials Used or Stored

No hazardous materials were observed to be used or stored at the Phase One Property.

6.3.3 Products Manufactured

No products were manufactured on the Phase One Property at the time of the site reconnaissance.

6.3.4 By-Products and Wastes

No by-products or wastes were observed to be generated at the Phase One Property.

6.3.5 Raw Materials Handling and Storage

No raw materials handling and storage was observed at the Phase One Property.

6.3.6 Drums, Totes, and Bins

Numerous drums were observed across the Phase One Property. The drums were confirmed to contain soil cuttings and purged groundwater from Stantec's 2017 field work. A locked sea container was observed along the northeastern boundary of the Phase One Property.

6.3.7 Oil/Water Separators

An API oil/water separator was observed on the southeastern portion of the Phase One Property. The API separator was reportedly previously used to separate the oil and suspended solids from the wastewater effluents generated during refinery operations. The area where the separator was located was overgrown and a locked gate surrounded the separator; therefore, it was difficult to determine the presence of staining. A historical separator identified on the 1952 FIP

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(see **Figure 3**) and a separator identified by Exp to be located adjacent to the fire hall building (Exp, 2013) were not observed during the site reconnaissance.

6.3.8 Vehicle and Equipment Maintenance Areas

No vehicle or equipment maintenance areas were observed at the Phase One Property.

6.3.9 Spills

No evidence of spills was observed at the Phase One Property, with the exception of black staining observed on the concrete immediately south of the former fire hall building.

6.3.10 Liquid Discharge Points

Several catch basins were noted on the Phase One Property around the perimeter of the Phase One Property, it is assumed they are connected to the off-site municipal storm sewer system.

6.3.11 Details of Operations

At the time of the site reconnaissance the Phase One Property was vacant. No processing or manufacturing occurred on the Phase One Property.

6.3.12 Hydraulic Lift Equipment

No hydraulic lift equipment, including elevators, in-ground hoists, or loading docks were identified at the Phase One Property.

6.4 PHASE ONE STUDY AREA

The current activities on adjacent and neighbouring properties observed at the time of the site reconnaissance are summarized in **Table 6**.

Table 6 Current Adjacent and Neighbouring Properties

Area	Address	Description
Western Properties	Lakeshore Road West	Roadway
	305 Lakeshore Road West	Used Car Lot
	310 Lakeshore Road West	The Compass – Community Outreach Office
	312 Lakeshore Road West	Vacant
	314 Lakeshore Road West	Residential apartment building
	320 Lakeshore Road West	Residential apartment building
	321 Lakeshore Road West	Shoppers Drug Mart
	322 Lakeshore Road West	Residential apartment building

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Table 6 Current Adjacent and Neighbouring Properties

Area	Address	Description
Northwestern Properties	Lakeshore Road West 182 Lakeshore Road West 188 to 198 Lakeshore Road West 212 Lakeshore Road West 250 Lakeshore Road West 264 Lakeshore Road West 296 Lakeshore Road West 298 Lakeshore Road West 300 Lakeshore Road West 125 High Street	Roadway Parking Lot Mixed commercial and residential Peel Chrysler Dealership Commercial Businesses TD Canada Trust Dog Groomers and AM Accounting Office Lakeshore Wellness Centre Restaurant Vacant
Northern Properties	169 Lakeshore Road West 170 Lakeshore Road West 176 Lakeshore Road West	Commercial property and parking lot Personal health and fitness centre Gears Bike Shop
Southeastern Properties	Mississauga Road South 21 to 47 Mississauga Road South 63 Port Street 53 Lake Street	Roadway Residential dwellings Residential dwelling J.C. Saddington Park
Southwestern Properties	3 to 53 Pine Avenue 59 to 73 Maple Avenue South	Residential dwellings
Southeastern Property	Unknown	Waterfront Trail, Lake Ontario, and waterfront lands under separate ownership

A summary of current and historical activities on neighbouring properties contributing to APECs at the Phase One Property is provided below.

6.4.1 Western Properties

321 Lakeshore Road West: At the time of the site reconnaissance, 321 Lakeshore Road West (located approximately 70 m west of the Phase One Property) was observed to be a Shoppers Drug Mart. However, according to available FIPs and city directories, USTs previously existed on the property, which historically operated as a vehicle repair shop from at least 1966 to 2000. In addition, 321 Lakeshore Road West was listed as a generator of at least one of the following wastes between 2009 and 2016: pathological wastes, light fuels, PCBs, oil skimmings and sludges, and waste oils and lubricants. In 1992, 321 Lakeshore Road West was listed as an industrial machinery, equipment, and supplies wholesaler-distributor. The historical vehicle repair shop and USTs represent PCAs considered to contribute to an APEC at the Phase One Property.

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333 Lakeshore Road West: 333 Lakeshore Road West (approximately 130 m west of the Phase One Property) was listed as a generator of pharmaceuticals and pathological wastes between 2011 and 2016. Due to the nature of the wastes generated, they are not expected to contribute to an APEC at the Phase One Property.

6.4.2 Northern Properties

150 Lakeshore Road West: A mill and scattered lumber were identified on the 1910 FIP, approximately 50 m north of the Phase One Property at 98 Toronto Road (now 150 Lakeshore Road West). In 1966, Pace Publishing Limited, located at 150 Lakeshore Road West (approximately 70 m north of the Phase One Property), was listed as a manufacturer of newspapers, publishing, and printing. In addition, this property was listed as a generator of photo processing wastes between 1992 and 1998 and of pathological wastes in 2015 and 2016. According to the 1989 city directory, a Pioneer Gasoline Service Station formerly operated at 150 Lakeshore Road West, and in 1997 a propane leak from a storage tank was reported. A dry cleaner also occupied this property according to the 2000 city directory. The historical operation of a gasoline service station and dry cleaner represent PCAs that are considered to contribute to APECs at the Phase One Property based on the proximity.

161 Lakeshore Road West: 161 Lakeshore Road West (approximately 45 m north of the Phase One Property) was listed as a generator of petroleum based waste oils, skimmings, and sludges between 2012 and 2016. Due to the southeasterly groundwater flow direction, the waste generation is not expected to contribute to an APEC at the Phase One Property.

176 Lakeshore Road West: 176 Lakeshore Road West (approximately 25 m north of the Phase One Property) was listed as a generator of petroleum based waste oil skimmings and sludges between 2012 and 2016. In addition, Genuine Fakes reportedly operated at 176 Lakeshore Road West and was the manufacturer of household furniture and fixtures in 1992. Because this property is upgradient of the northern corner of the Phase One Property and the due to the proximity, the historical manufacturing operations and associated waste generation is considered to contribute to an APEC at the Phase One Property.

30 John Street South: 30 John Street South (approximately 175 m north of the Phase One Property) was listed as a generator of organic and inorganic laboratory chemicals, petroleum distillates, and waste oils and lubricants between 1986 and 2005. Due to the inferred groundwater flow direction, the historical operations at 30 John Street South are not expected to contribute to an APEC at the Phase One Property.

6.4.3 Northwestern Properties

125 High Street: 125 High Street (located approximately 25 m northwest of the Phase One Property) was formerly referred to as 266/280/286 Lakeshore Road West. According to the 1952 FIP, a former gasoline service station and two USTs were present on this property. The available city directory information confirmed the presence of a vehicle repair shop on this property

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between 1966 and 2000. This property was registered as a manufacturer of machines in 1983, was listed as having expired tanks in 1991, and was listed as a generator of petroleum-based waste oils and sludges in 2016. At the time of the site reconnaissance this property was vacant, with evidence of fill piles along the northwestern property boundary. The historical operation of a gasoline service station and vehicle repair shop represent PCAs considered to contribute to an APEC at the Phase One Property.

182 Lakeshore Road West: At the time of the site reconnaissance 182 Lakeshore Road West (located approximately 25 m northwest of the Phase One Property) was a parking lot. The 1952 FIP identified six USTs located at 182 Lakeshore Road West associated with the operation of a gasoline service station. The historical records review revealed that this property formerly operated as a gasoline service station prior to 1972/1973. In addition, 182 Lakeshore Road West was listed as a generator of petroleum distillates between 1986 and 1998, and boat construction and repair activities occurred at this location. The historical USTs and operation of a gasoline service station at this property represent PCAs considered to contribute to an APEC at the Phase One Property based on the groundwater flow direction and proximity to the Phase One Property.

188 to 198 Lakeshore Road West: 188 to 198 Lakeshore Road West (approximately 25 m northwest of the Phase One Property) was observed to be occupied by mixed residential and commercial land use during the site reconnaissance. This property was formerly referred as 200 and 210 Lakeshore Road West, and reportedly operated as a gasoline service station (in 2002 and 2004 based on the ERIS report) and vehicle repair shop (1966 city directory). 188 to 198 Lakeshore Road West was listed a generator of light fuels from 2002 to 2004. The historical operation of a gasoline service station at this location and associated waste generation represents a PCA that is considered to contribute to an APEC at the Phase One Property based on the groundwater flow direction and proximity to the Phase One Property.

212 Lakeshore Road West: At the time of the site reconnaissance 212 Lakeshore Road West (located approximately 25 m northwest of the Phase One Property) was operating as a car dealership with vehicle repair bays. According to city directory records, this property has operated as a car dealership from at least 1972. The operation of a vehicle repair shop represents a PCA considered to contribute to an APEC at the Phase One Property.

224 Lakeshore Road West: 224 Lakeshore Road West (approximately 70 m northwest of the Phase One Property) was listed as a generator of pharmaceuticals and pathological wastes in 2016. Due to the nature of the wastes generated, the waste generation activities at this property are not expected to contribute to an APEC at the Phase One Property.

228 Lakeshore Road West: 228 Lakeshore Road West (approximately 130 m northwest of the Phase One Property) was listed as a generator of pharmaceuticals and pathological wastes in 2000 and 2001. In addition, this property was listed as an industrial machinery, equipment, and supplies wholesaler/distributor (date unknown), wholesale trade agents and brokers, general freight trucking, and deep sea, coastal and Great Lakes water transportation in 1992 (ERIS,

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2017). Based on the distance from the Phase One Property and the wastes generated, the waste generation and historical manufacturing operations at this location are not expected to contribute to an APEC at the Phase One Property.

250 Lakeshore Road West: At the time of the site reconnaissance 250 Lakeshore Road West (located approximately 25 m northwest of the Phase One Property) was operating as a commercial plaza. The site contact (Dr. Doug Blue, IOL) confirmed that this property historically operated as a distribution terminal and refinery products loading area with various storage tanks. 228 Lakeshore Road West, formerly referred to as 250 Lakeshore Road West previously operated as a dry-cleaning facility. Dr. Blue indicated there were historical solvent impacts in groundwater at this property as a result of a former spill. 250 Lakeshore Road West was listed as a generator of at least one of the following wastes between 2013 and 2016: light fuels; halogenated solvents; residues, pesticides and herbicides; organic non-halogenated pesticide and herbicide waste; petroleum based waste oils, sludges, and lubricants; acid and alkaline solutions containing heavy metals, other metals, and non-metals; wastes from the use of pigments, coatings, and paints; organic and inorganic chemical waste, aliphatic solvents and residues; pharmaceuticals; detergents and soaps; pathological wastes; and compressed gases, including cylinders. The historical operations and the reported spill represent PCAs that were considered to contribute to an APEC at the Phase One Property.

11 John Street South: 11 John Street South (approximately 215 m northeast of the Phase One Property) was listed as a generator of hazardous waste between 1990 and 1994, but a description of the wastes generated was not provided. However, according to city directories this property operated as a vehicle repair shop between 1994 and 2000. Based on the distance from the Phase One Property and inferred direction of groundwater flow, historical operations and waste generation at 11 John Street South are not expected to contribute to an APEC at the Phase One Property.

Summaries of current and historical PCA representing APECs and a list of the APECs on the Phase One Property are provided in Sections 7.2 and 7.3, respectively.

6.5 WRITTEN DESCRIPTION OF INVESTIGATION

Section 6.1 presents the findings of review of records related to the Phase One Property and Phase One Study Area. Sections 6.2 and 6.3 present the findings of the site reconnaissance of the Phase One Property, and Section 6.4 presents the findings of the assessment of properties located in the Phase One Study Area for evidence of PCAs. No investigations, in addition to those described above, were undertaken during the Phase One ESA to assess any PCAs noted or identified during the records review and site reconnaissance. A summary of the findings relevant to the existence of APECs on, in or under the Phase One Property is provided in Section 7.3.

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7.0 REVIEW AND EVALUATION OF INFORMATION

7.1 CURRENT AND PAST USES

The current activities at the Phase One Property at the time of the site reconnaissance, and a summary of historical owners and use of the Phase One Property gathered through the records review, are presented in **Table 7**.

Table 7 Current and Past Uses of Phase One Property

Year	Name of Owner(s)	Description of Property Use	Property Use	Other Observations
70 Mississauga Road South and 181 Lakeshore Road West				
1850 to 1855	James R. Shaw	Unknown	Unknown	Lot 9
1855 to 1865	Frederick C. Capreol	Unknown	Unknown	Lots 9 to 11
1865 to 1870	William N. Alger	Unknown	Unknown	Lots 9 to 11
1870 to 1884	John Crickmore	Unknown	Unknown	Lots 9 to 11
1884 to 1889	Peel General Manufacturing Co.	Unknown	Unknown	Lots 9 to 11
1889 to 1893	Thomas Nightingale	Unknown	Unknown	Lots 9 to 11
1893 to 1894	Francis F. Stuart	Unknown	Unknown	Lots 9 to 10
1894 to 1896	Port Credit P.B. and T.C. Co.	Unknown	Unknown	Lots 9 to 10
1896 to 1900	Peel General Manufacturing Co. and Hestor M. Parker	Unknown	Unknown	Lots 9 to 11
1900 to 1903	William Leasing	Unknown	Unknown	Part of Lot 9
1903 to 1904	George W. Packham John D. Wright Russell J. Walker	Unknown	Unknown	Part of Lots 9 and 10
1904 to 1906	Constructions Ltd. Peter Ryan Port Credit Brick Co.	Brickyard	Industrial and Residential	Part of Lots 9 and 10 Part of Lots 9 to 11
1906 to 1909	Port Credit Brick Co. Ltd. Rutherford Cummings, Alfred Gibson	Brickyard Unknown	Industrial and Residential	Part of Lots 9 and 10 and Waterfront Lots 9 and 10 Part of Lots 9 to 11
1909 to 1911	Alfred Gibson Port Credit Brick Co. Ltd.	Brickyard	Industrial and Residential	Part of Lots 9 to 11 A brick manufacturing facility was identified

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Table 7 Current and Past Uses of Phase One Property

Year	Name of Owner(s)	Description of Property Use	Property Use	Other Observations
				on-site via title search documentation and on the 1910 and 1928 FIP.
1911 to 1916	Francis P. Meegan Port Credit Brick Co.	Unknown Brickyard	Industrial and Residential	Part of Lot 9
1916 to 1920	Margaret Naish	Unknown	Unknown	Part of Lot 9
1920 to 1925	Harry Patchett	Unknown	Unknown	Part of Lot 9
1925 to 1926	Elizabeth B. Bower	Unknown	Unknown	Part of Lot 9
1926 to 1928	Violet A. and Nelson Tilbury Edith Marion and Chester P. Hoyt	Unknown	Unknown	Part of Lots 9 and 10
1928 to 1929	Margaret Naish	Unknown	Unknown	Part of Lot 9
1929 to 1931	Charles G. Greenshields Port Credit Brick Co. Ltd./Port Credit Brick Ltd.	Unknown Brickyard	Industrial and Residential	Part of Lots 9 to 11
1931 to 1932	M.J. Haney Realty Co.	Unknown	Unknown	Part of Lot 10
1932 to 1933	Chester P. and Edith M. Hoyt Harry and Elsie M Patchett	Unknown	Unknown	Part of Lot 10 Part of Lot 9 Identified as a refinery in the city directories, 1952 FIP, aerial photographs, and historical reports.
1933 to 1940	Lloyd Refineries Ltd.	Oil Refinery	Industrial	Part of Lots 9 and 10 Sale from Port Credit Brick Ltd.
1940 to 1942	Corp. Of the Village of Port Credit	Oil Refinery	Industrial	Part of Lot 9
1942 to 1947	Good Rich Refining Co. Ltd. Andrew Blair	Oil Refinery Unknown	Industrial and Residential	Part of Lots 9 to 11 Sale from Port Credit Brick Co. Ltd., Corp. of Village of Port Credit, and Margaret Naish
1947 to 1951	Good Rich Refining Co. Ltd. Trinidad Leaseholds (Canada) Ltd. Winnifred E. Phillips	Oil Refinery Unknown	Industrial and Residential	Part of Lot 9 Part of Lots 9 and 10

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Table 7 Current and Past Uses of Phase One Property

Year	Name of Owner(s)	Description of Property Use	Property Use	Other Observations
1951 to 1956	Elsie E. Bowden	Unknown	Industrial and Residential	Part of Lot 9 Sale from Harry and Elsie M. Patchett
1956 to 1960	Kathleen and Leo Pickard Regent Refining (Canada) Ltd.	Oil Refinery	Industrial and Residential	Part of Lot 9 Sales from Margaret Naish Executors, Kathleen and Leo Pickard, and Elsie E. Bowden
1960 to 1980	Texaco Canada Limited	Oil and Petrochemical Refinery	Industrial	Part of Lot 9 Later amalgamated to McColl-Frontenac Inc. Sale from Regent Refining (Canada) Ltd.
1980 to 1990	Texaco Canada Inc.	Oil and Petrochemical Refinery	Industrial	Part of Lots 9 to 11 Later amalgamated to McColl-Frontenac Inc. Sale from Regent Refining (Canada) Ltd. Refinery Operations ceased on-site in 1985.
1990 to 2017	172965 Canada Limited	Vacant	Vacant	Minimal site activity Sale from McColl-Frontenac Inc.
March 2017 to present	Port Credit West Village Partners Inc.	Vacant	Vacant	Minimal site activity

The historical operation of a brick manufacturing facility and oil refinery operations on the Phase One Property contribute to APECs at the Phase One Property.

7.2 POTENTIALLY CONTAMINATING ACTIVITY

The following PCAs, as defined in O.Reg. 153/04, were identified at the Phase One Property and within the Phase One Study Area that were considered to contribute to an APEC at the Phase One Property. The PCA numbering, where applicable, is consistent with Table 2, Schedule D in O.Reg. 153/04. As discussed throughout the report, PCAs at neighboring properties located downgradient or cross-gradient from the Phase One Property, and/or at a significant distance (i.e., >100 m) from the Phase One Property were not considered to contribute to an APEC at the Phase One Property.

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Table 8 Potentially Contaminating Activities

Potentially Contaminating Activity	Location(s)	Environmental Concern(s)
Phase One Property		
PCA 10 – Commercial Auto Body Shops	<ul style="list-style-type: none"> Northern corner of the Phase One Property (181 Lakeshore Road West) 	<ul style="list-style-type: none"> Vehicle repair shop
PCA 12 – Concrete, Cement, and Lime Manufacturing	<ul style="list-style-type: none"> Southeastern Portion of the Phase One Property 	<ul style="list-style-type: none"> Former Brick Manufacturing
PCA 14 – Crude Oil Refining, Processing, and Bulk Storage	<ul style="list-style-type: none"> Phase One Property including: Former Process Area Shale Pit Former rail spur Northeast and West tank farms Northwest Tank Farm West Tank Farm 	<ul style="list-style-type: none"> Storage, transfer, and refining of petroleum products (ASTs, USTs, pipeline, and rail lines) Shale Pit acted as a settling pond for treated wastewater Process water, waste oil, and refinery slop was processed through the API separator Leak in former tank TK226 Leaded tank bottoms historically transferred to the Northwest Tank Farm The concentration of a phthalate parameter in a soil sample collected from test pit TP462 (located in the West Tank Farm, west of the Shale Pit) was reportedly greater than the 2011 ICC Table 3 SCS at 1.5 m BGS (Exp, 2015). Therefore, phthalates were considered a localized COPC in the West Tank Farm.
PCA 28 – Gasoline and Associated Products Stored in Fixed Tanks	<ul style="list-style-type: none"> Northern corner of the Phase One Property (181 Lakeshore Road West) 	<ul style="list-style-type: none"> Former gasoline service station with associated USTs

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Table 8 Potentially Contaminating Activities

Potentially Contaminating Activity	Location(s)	Environmental Concern(s)
PCA 30 – Importation of Fill Material of Unknown Quality	<ul style="list-style-type: none"> Across Phase One Property including: Northwestern portion of the Shale Pit Former Slip (Harbour Inlet) and shoreline, former rail spur, former creek, former gasoline service station, former building footprints, former tank farms On-site berms and stockpiles 	<ul style="list-style-type: none"> Fill of unknown quality Between 1987 and 1989, the West Tank Farm was used to stockpile soils when the North tank farm and 250 Lakeshore Road West were being remediated (Barenco, 2010)
PCA 46 – Rail Yards, Tracks, and Spurs	<ul style="list-style-type: none"> Former railway loading area and spur lines 	<ul style="list-style-type: none"> Fill of unknown quality Transfer of petroleum based products and the potential for a spill
PCA 55 - Transformer Manufacturing, Processing, and Use	<ul style="list-style-type: none"> Former PCB Storage Area (located along the northeastern property boundary) Former on-site transformer 	<ul style="list-style-type: none"> Former PCB storage site, removal of PCB storage confirmed in 2000 for off-site disposal PCB storage included material transferred from 250 Lakeshore Road West to the Phase One Property for storage
Phase One Study Area		
PCA 10 – Commercial Auto Body Shops	<ul style="list-style-type: none"> 125 High Street 72 Wesley Avenue, 200, 212, and 321 Lakeshore Road West 	<ul style="list-style-type: none"> Historical presence of vehicle repair shops
PCA 14 – Crude Oil Refining, Processing, and Bulk Storage	<ul style="list-style-type: none"> 250 Lakeshore Road West 	<ul style="list-style-type: none"> Historical presence of associated tanks and spills
PCA 28 – Gasoline and Associated Products Stored in Fixed Tanks	<ul style="list-style-type: none"> 182, 210, and 286 Lakeshore Road West 	<ul style="list-style-type: none"> Former gasoline service stations with associated USTs
PCA 30 – Importation of Fill Material of Unknown Quality	<ul style="list-style-type: none"> 125 High Street 200 and 250 Lakeshore Road West J.C. Saddington Park 	<ul style="list-style-type: none"> Fill of unknown quality
PCA 37 – Operation of Dry Cleaning Equipment (where chemicals are used)	<ul style="list-style-type: none"> 150 and 228 Lakeshore Road West 	<ul style="list-style-type: none"> Historical operation of a dry cleaner

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Table 8 Potentially Contaminating Activities

Potentially Contaminating Activity	Location(s)	Environmental Concern(s)
PCA 58 – Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosoils and soil conditioners	<ul style="list-style-type: none"> J.C. Saddington Park 	<ul style="list-style-type: none"> Lake was infilled in this area According to the Region of Peel contact, former landfill likely used for disposal of construction, demolition, and residential wastes

7.3 AREAS OF POTENTIAL ENVIRONMENTAL CONCERN

APECs identified on the Phase One Property based on the presence of PCAs (see **Table 8**) are described in **Table 9** below. **Table 9** also presents the COPCs associated with the PCAs, the media of concern, and a brief description of each APEC.

Table 9 Areas of Potential Environmental Concern

Area of Potential Environmental Concern (APEC)	Location of APEC	Potentially Contaminating Activity (PCA)	Location of PCA	Contaminants of Potential Concern	Media Potentially Impacted
1	Northwestern Property Boundary	PCA 10 – Commercial Auto Body Shops	On-Site: 181 Lakeshore Road West and Off-Site: 125 High Street, 72 Wesley Avenue, 200, 212, 266, 280, and 286, Lakeshore Road West	PHCs, VOCs, including BTEX, and metals	Soil and Groundwater
2	Western Corner of the Phase One Property	PCA 10 – Commercial Auto Body Shops	Off-Site: 321 Lakeshore Road West	PHCs, VOCs, including BTEX, and metals	Soil and Groundwater
3	Eastern Portion of the Phase One Property	PCA 12 – Concrete, Cement, and Lime Manufacturing	On-Site	PAHs, metals, and inorganics	Soil and Groundwater
4	Phase One Property	PCA 14 – Crude Oil, Refining, Processing, and Bulk Storage	On-Site	PHCs, VOCs, including BTEX, metals, and phthalates (West Tank Farm)	Soil and Groundwater

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Table 9 Areas of Potential Environmental Concern

Area of Potential Environmental Concern (APEC)	Location of APEC	Potentially Contaminating Activity (PCA)	Location of PCA	Contaminants of Potential Concern	Media Potentially Impacted
5	Northwestern Property Boundary	PCA 14 – Crude Oil, Refining, Processing, and Bulk Storage	Off-Site: 250 Lakeshore Road West	PHCs, VOCs, including BTEX, metals, and PCBs	Soil and Groundwater
6	Northern Corner of the Phase One Property	PCA 28 – Gasoline and Associated Products Stored in Fixed Tanks	On-Site	PHCs, VOCs, including BTEX	Soil and Groundwater
7	Northeastern Portion of the Phase One Property	PCA 28 – Gasoline and Associated Products Stored in Fixed Tanks	Off-Site: 31 Bay Street	PHCs, VOCs, including BTEX	Soil and Groundwater
8	Northwestern Phase One Property Boundary	PCA 28 – Gasoline and Associated Products Stored in Fixed Tanks	Off-Site: 182 and 200 Lakeshore Road West	PHCs, VOCs, including BTEX, and metals	Soil and Groundwater
9	Northern Corner of the Phase One Property	PCA 28 – Gasoline and Associated Products Stored in Fixed Tanks	Off-Site: 150 Lakeshore Road West	PHCs, VOCs, including BTEX	Soil and Groundwater
10	Phase One Property	PCA 30 – Importation of Fill Material of Unknown Quality	On-Site	PHCs, VOCs, PAHs, PCBs, metals, and inorganics	Soil
11	Northwestern, Southeastern, and Central Portions of the Phase One Property	PCA 46 – Rail Yards, Tracks, and Spurs	On-Site	PHCs, PAHs, and metals	Soil and Groundwater
12	Northwestern Property Boundary	PCA 37 – Operation of Dry Cleaning Equipment (where chemicals are used)	Off-Site: 228 Lakeshore Road West	VOCs	Soil and Groundwater
13	Northern Corner of the Phase One Property	PCA 37 – Operation of Dry Cleaning Equipment (where chemicals are used)	Off-Site: 150 Lakeshore Road West	VOCs	Soil and Groundwater

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Table 9 Areas of Potential Environmental Concern

Area of Potential Environmental Concern (APEC)	Location of APEC	Potentially Contaminating Activity (PCA)	Location of PCA	Contaminants of Potential Concern	Media Potentially Impacted
14	Southeastern Corner of the Phase One Property	PCA 58 – Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosoils and soil conditioners	Off-Site: J.C. Saddington Park	PHCs, VOCs, PAHs, PCBs, metals, and inorganics	Soil and Groundwater
15	Northeastern Portion of the Phase One Property	PCA 55 – Transformer Manufacturing, Processing, and Use	On-Site	PHCs and PCBs	Soil

¹ COPCs include PHCs, VOCs, including BTEX, selected metal and inorganic parameters, PAHs, PCBs, and phthalates.

Further to the APECs described above, previous reports identified the following contaminants of concern in soil and/or groundwater at concentrations greater than the applicable Site Condition Standards: PHC F1 to F4, several VOCs including BTEX parameters, several PAH, PCBs, metals, inorganics, and phthalates.

7.4 PHASE ONE CONCEPTUAL SITE MODEL

In developing the Conceptual Site Model for the Phase One Property and Phase One Study Area, the following physical characteristics/pathways were evaluated to assess whether PCAs have contributed to an APEC at the Phase One Property.

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Table 10 Conceptual Site Model

Physical Characteristics/ Pathways	Description
Subsurface Soils	<p>Based on information obtained from the Ontario Geological Survey (OGS) surficial geology map (OGS Map 2556), native surficial soils on the Phase One Property and in the Phase One Study Area are mapped as glaciolacustrine deposits, which are reported to contain sand, gravel, and gravelly sand, nearshore and beach deposits.</p> <p>Stantec's 2017 due diligence investigation outlined the advancement of 26 boreholes completed as monitoring wells in January and February 2017. Borehole records from this investigation indicated the soil profile generally consisted of topsoil at the ground surface with fill material, sandy silt/silt/clayey silt observed within increasing depth. During this investigation, the depth of fill material (including bricks, wood, concrete, asphalt, and plastic) ranged from 0.2 m to 5.3 m BGS.</p>
Bedrock	<p>Based on information obtained from the OGS bedrock geology map (OGS Map 2544), bedrock in the area of the Phase One Property is reported to consist of shale, limestone, dolostone, and siltstone of the Georgian Bay Formation. During Stantec's due diligence investigation the depth to shale bedrock was reported to range from 2.3 m to 5.5 m BGS (Stantec, 2017).</p>
Groundwater Flow Direction	<p>Based on topographic elevations obtained from the Ministry of Natural Resources and Forestry (MNR) website, the MNR digital elevation data, an Ontario Base Map, and the observed topography in the vicinity of the Phase One Property, the regional surface drainage (local groundwater flow direction) is inferred to be southeasterly toward Lake Ontario (Exp, 2015), which is located southeast of the Phase One Property. The southeastern boundary of the Phase One Property is irregular. The eastern portion of the Phase One Property extends into Lake Ontario, while at its furthest point the southeastern property boundary is approximately 90 m from Lake Ontario.</p>
Underground Utilities	<p>Underground utilities associated with various former buildings and operations on-site may still be present. Hydrants were observed along the northwestern and southwestern property boundaries and water lines may be present connecting the hydrants. Stantec understands that with the exception of potential underground utility service connections to the vacant car wash and kiosk building on the northern corner of the Phase One Property, there are no other active underground utilities and no other evidence of underground utilities were observed at the Phase One Property at the time of the site reconnaissance. The exact location of former utilities was not determined during the Phase One ESA.</p>

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The figures provided in **Appendix A** illustrate features and details in relation to the Phase One Study Area and the Phase One Property. In general, the figures illustrate the following (where applicable):

1. Road names and existing buildings and structures within the Phase One Study Area
2. Location of water bodies at the Phase One Property and within the Phase One Study Area
3. Location of areas of natural significance (if present) within the Phase One Study Area
4. Presence of drinking water wells (if present) at the Phase One Property, if present
5. Property usage types on adjoining properties to the Phase One Property
6. Potentially Contaminating Activities, if present
7. The location and type of known tanks, if present
8. General direction of groundwater flow in the vicinity of the Phase One Property, if known
9. The approximate locations of underground utilities or structures, if known

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8.0 CONCLUSIONS

8.1 WHETHER PHASE TWO ENVIRONMENTAL SITE ASSESSMENT IS REQUIRED BEFORE RECORD OF SITE CONDITION SUBMITTED

The submission of a RSC to the MOECC must be completed in accordance with O.Reg. 153/04, when the land use of a property is intended to change from a less sensitive land use to a more sensitive land use (e.g., industrial or commercial to residential).

Based on the findings of this Phase One ESA, additional Phase Two ESA work is required before an RSC can be submitted. Phase One and Two ESA investigations completed on behalf of the previous owner of the Phase One Property have identified impacts to soil and groundwater that will require further Phase Two investigation and remediation.

Prior to filling an RSC, the maximum soil and groundwater concentrations of contaminants of concern must either meet the MOECC generic standards, or alternatively, risk-derived property specific standards generated for the Phase One Property.

The known soil and groundwater impacts at the Phase One Property as well as the identified APECS will be addressed by the Phase Two ESA and subsequent targeted remediation and risk assessment to be initiated in 2018, which will be reported under a separate cover.

8.2 RECORD OF SITE CONDITION BASED ON PHASE ONE ENVIRONMENTAL SITE ASSESSMENT ALONE

An RSC cannot be filed solely based on the findings of this Phase One ESA.

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8.3 SIGNATURES

The findings and conclusions of this report have been supervised and reviewed by the undersigned Qualified Person.

As a QP_{ESA}, I (Erika Ryter) confirm that I have supervised the carrying out of the Phase One ESA and findings and conclusions of this report. In addition, as Quality Reviewer for this report, I (Erika Ryter) confirm that I have completed a technical review of this Phase One ESA and concur with the findings and conclusions of this report.

The objectives and requirements set out in Ontario Regulation 153/04 for a Phase One Environmental Site Assessment were applied in carrying out the environmental site assessment and in preparing this report.

Regards,

STANTEC CONSULTING LTD.



FOR

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9.0 CLOSURE

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

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

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

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

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

Limitations of this report include:

- Wooded areas and overgrown vegetation limited access around the Phase One Property.
- At the time of the issuance of this report, an interview with one of the persons knowledgeable about the Phase One Property's history had not been conducted.
- Fences prevented access to the former gasoline service station property and the API separator.

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- The three vacant buildings and a vacant sea container located on the Phase One Property were not accessed due to safety concerns. When the buildings undergo demolition, they can be assessed and the report updated with pertinent findings prior to filing an RSC to address the uncertainty.
- FOI responses for 181 Lakeshore Road West, 7 Pine Avenue, and Lots 9, 10, and 11 Broken Front Concession have not been received. Once the available information has been reviewed, the report will be updated with pertinent findings.
- An FOI response for the spill that occurred on the corner of the Old Texaco Refinery property has not been received. Stantec has requested additional records from the MOECC pertaining to this spill to evaluate whether it would contribute to and APEC at the Phase One Property. Once the available information has been reviewed, the report will be updated with pertinent findings.
- A TSSA response for 181 Lakeshore Road West has not been received. Once the available information has been reviewed, the report will be updated with pertinent findings.

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

Due to the nature of the investigation and the limited data available, Stantec does not warrant against undiscovered environmental liabilities. As the purpose of this report is to identify site conditions which may pose an environmental risk; the identification of non-environmental risks to structures or people on the site is beyond the scope of this assessment.

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

This report was prepared by Breanne Graham, BA. (Hon.), and reviewed by Erika Ryter, P.Eng.

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10.0 REFERENCES

Information sources obtained and reviewed as part of the records review are listed below.

Table 11 References

Reference Type/Source	Information/Documents Obtained
Aerial Photographs and/or Satellite Images	Exp 2013 Report: 1931, 1956, 1960, 1965, 1968, 1973, 1980, 1983, 1986 Stantec Collection: 1946, 1950, 1964, 1967, and 1978 City of Mississauga Website: 1954, 1966, 1975, 1977, 1985, 1989, 1992, 2000, 2005, 2010, and 2015
Ecolog ERIS	City Directories: 1961, 1966, 1972/1973, 1977/1978, 1984, 1989, 1994, and 2000
Opta	Fire Insurance Plans: 1910, 1928, and 1952
Previous Environmental Reports	"Assessment of Greenway Study Lands, Imperial Oil Limited, South Property, Port Credit, Ontario" prepared by Golder Associates Ltd. for Imperial Oil Limited, dated June 30, 1995. "Assessment of Proposed Waterfront Trail Lands, Imperial Oil Limited, South Property, Port Credit, Ontario", prepared by Golder Associates Ltd. for Imperial Oil Limited, dated March 31, 1997. "Remedial Measures, proposed Waterfront Trail Lands, Imperial Oil Limited, South Property, Port Credit, Ontario", prepared by Golder Associates Ltd. for the City of Mississauga, dated March 9, 1998. "Site Specific Guidelines Development for the Greenway Study Lands, South Property, Imperial Oil Lands, Port Credit, Ontario", prepared by Golder Associates Ltd. for the City of Mississauga, dated September 1999. "Preliminary Environmental Assessment, 10 Mississauga Road South, Mississauga, Ontario", prepared by Barenco Inc. for Imperial Oil Limited, dated April 30, 2010. "Phase I Environmental Site Assessment, 10 Mississauga Road South, Mississauga, Ontario", prepared by Exp Energy Services Ltd., for Imperial Oil Limited, dated May 24, 2013. "Supplemental Phase II Environmental Site Assessment, 10 Mississauga Road, South, Mississauga, Ontario", prepared by Exp Energy Services Ltd., for Imperial Oil Limited, dated July 24, 2015.

PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

References
August 18, 2017

Table 11 References

Reference Type/Source	Information/Documents Obtained
	<p>"Phase II Environmental Site Assessment, 10 Mississauga Road South, Mississauga, Ontario", prepared by Exp Energy Services Ltd., for Imperial Oil Limited, dated August 8, 2015.</p> <p>"Soil Vapour Probe Sampling Program Report, 10 Mississauga Road South, Port Credit, Ontario", prepared by Exp Energy Services Ltd., for Imperial Oil Limited, dated January 22, 2016.</p> <p>"Soil Vapour Probe Installation and Sampling Program Report, Adjacent to 10 Mississauga Road South, Port Credit, Ontario", prepared by Exp Energy Services Ltd., for Imperial Oil Limited, dated January 22, 2016.</p> <p>"Phase II Environmental Site Assessment and Site Decommissioning Program, 181 Lakeshore Road West, Mississauga, Ontario", prepared by Exp Energy Services Ltd., for Imperial Oil Limited, dated January 27, 2017.</p> <p>"Environmental Due Diligence Program, Port Credit Imperial Oil Lands, 70 Mississauga Road South, Mississauga, Ontario", prepared by Stantec for Port Credit Village Partners Inc., dated March 2, 2017.</p>
Company Records	None provided
Geological and Geotechnical Reports	None provided
EcoLog ERS	ERIS report for a complete environmental database search for records pertaining to a customized search area including the Phase One Property, to an approximate radius of 250 m from the boundary of the Phase One Property.
Regulatory Infractions	<p>Requests were made to the MOECC through the Freedom of Information and Privacy Protection Office for a search of their records regarding charges and/or convictions of the owners or tenants, or violations of applicable environmental regulations, issued against the Phase One Property and select adjacent/neighbouring properties.</p> <p>The ERIS report also included database search results of the MOECC Compliance and Convictions database.</p>
Reportable Spill Occurrences	<p>A request was made to the MOECC's Spills Action Centre through the Freedom of Information and Privacy Protection Office for a search of their records of reportable spills occurring at the Phase One Property and select addresses/properties within the Phase One Study Area.</p> <p>The EcoLog ERS report also included search results for the Ontario Spills database.</p>
Contaminated Sites	<p>"Inventory of Coal Gasification Plant Waste Sites in Ontario", dated April 1987</p> <p>"Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario" (Volumes I and II), dated November 1988</p> <p>MOECC Brownfields Environmental Site Registry</p>

PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

References
August 18, 2017

Table 11 References

Reference Type/Source	Information/Documents Obtained
Hazardous Waste Generators	ERIS – Ontario Regulation 347 Waste Generators
Landfills	"Waste Disposal Site Inventory" (June 1991) ERIS – Anderson's Waste Disposal Sites (1860s to present), Waste Disposal Sites – MOE CA Inventory and Historical Approval Inventory (up to October 1990)
Underground and Aboveground Storage Tanks	A response from the TSSA indicated that they have no files regarding outstanding instruction, incident reports, fuel oil spills and/or contamination records respecting to the Phase One Property. ERIS searched the following TSSA databases: <i>TSSA Expired Facilities</i> , <i>TSSA Incidents and Historic Incidents</i> , <i>TSSA Pipeline Incidents</i> , and <i>TSSA Variances for Abandonment of Underground Storage Tanks</i> .
Water Well Records	Water Well Information System (searched by ERIS).
Geologic Maps	Ontario Geological Survey (OGS), 1991. 1:1,000,000 scale of Bedrock Geology of Ontario; Southern Sheet, Map 2544 Ontario Geological Survey (OGS), 1991.1: 1,000,000 scale of Quaternary Geology of Ontario; southern sheet, Map 2556
Geowarehouse (website)	Sales History Information for the Phase One Property
Title Search	Service Ontario Land Registry Office May 5, 2017 Title Search Services – November 2008 (Exp, 2013)
Survey Plans	"Plan of Survey of All of Lot 10 and Part of Lots 9 and 11 and Water Lot Location in Front of Part of Lot 9, Broken Front Range, Credit Indian Reserve" dated March 15, 2017 prepared by J.D. Barnes Limited
Other Available Information	Government of Ontario (Ontario), 2011. <i>Environmental Protection Act</i> , Ontario Regulation 153/04 Records of Site Condition – Part XV.1 of the Act, October 31, 2011. Ontario Ministry of the Environment (MOE), 2011. Soil, Ground Water, and Sediment Standards for Use Under Part XV.1 of the <i>Environmental Protection Act</i> , April 15, 2011. Ministry of the Environment (MOE), 2004. Soil, Ground Water, and Sediment Standards for Use Under Part XV.1 of the <i>Environmental Protection Act</i> , March 9, 2004. Ontario Ministry of Environment and Energy (MOEE), 1997. Guideline for Use at Contaminated Sites in Ontario, Updated February 1997. MOECC Brownfield Registry: http://www.environet.ene.gov.on.ca/besr-public/generalSearch.do?action=display

PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

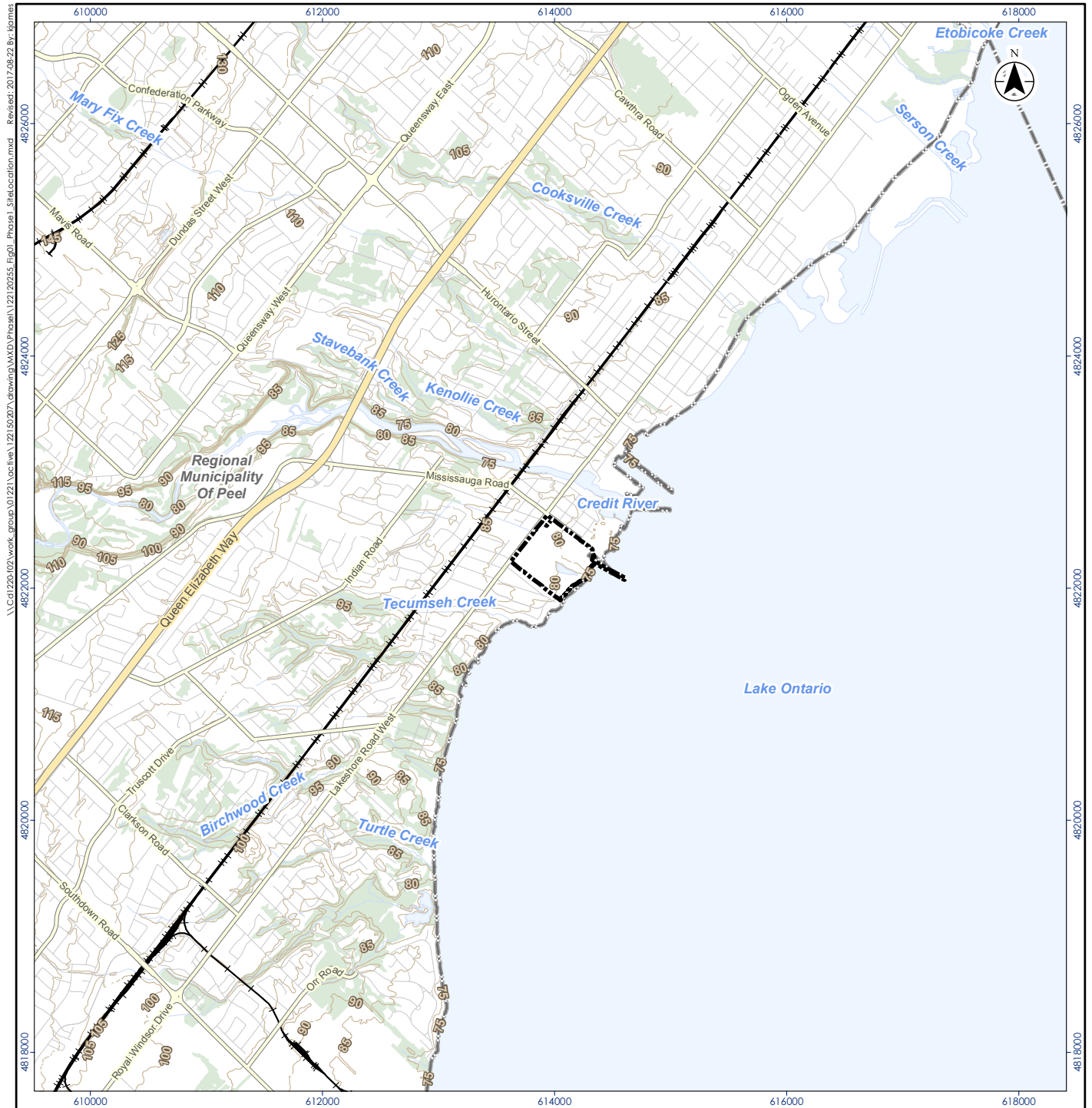
References
August 18, 2017

Table 11 References

Reference Type/Source	Information/Documents Obtained
	<p>Proposed amendments to O. Reg. 153/04: http://www.ebr.gov.on.ca/ERS-WEB-External/searchNotice.do?menuIndex=1_2&searchType=splash</p> <p>City of Mississauga Website: https://www.mississauga.ca/portal/services/maps-classic</p> <p>Ministry of Natural Resources "Make a Map: Natural Heritage Areas" Website: http://www.gisapplication.lrc.gov.on.ca/mamnh/Index.html?site=MNR_NHLUPS_NaturalHeritage&viewer=NaturalHeritage&locale=en-US</p> <p>http://www.mississauga.ca/portal/residents/allhistoricimages?images=139&isSearch=true, collected July 18, 2017</p> <p>"Port Credit Progress, Steady and Certain", Port Credit Weekly Focus 65, May 19, 1965.</p>

APPENDIX A

FIGURES



- Site Boundary
- Expressway / Highway
- Major Road
- Minor Road
- Railway - Operational
- Ground Topographic Contour (mAMSL)
- Watercourse
- Waterbody
- Wooded Area
- Municipal Boundary - Lower Tier
- Municipal Boundary - Upper Tier

0 500 1,000 metres
1:50,000 (at original document size of 8.5x11)



Project Location 1221.20255
70 Mississauga Road South
and 181 Lakeshore Road West
Mississauga, Ontario
Client/Project
Port Credit West Village Partners Inc.
Phase One Environmental Site Assessment

Figure No.

1

Title
Site Location

Notes

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

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

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Legend

- Approximate Location of Existing Off-site Monitoring Well (Others)
- Approximate Location of Former TransNorthern Pipeline (1952 FIP)
- Approximate Location of Former Rail Line
- Approximate Location of Off-Site UST in Phase One Study Area
- Approximate Location of Drums
- Approximate Phase One Property Boundary
- Phase One Study Area

0 200 400 metres
1:3,000 (At original document size of 22x34)

Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry @ Queen's Printer for Ontario, 2017.
3. Orthoimagery @ First Base Solutions, 2017. Imagery Date, 2016.
4. Site features are based on field observations and historical documentation referenced in Stantec's report and should be considered approximate.
5. This figure is to be viewed in the context of the accompanying report and is subject to the limitations specified in that report.
6. UST - Underground storage tank
7. AST - Aboveground storage tank
8. CD - City Directory
9. FIP - Fire insurance plan
10. EIRIS - Environmental Risk Information Service report



Project Location
70 Mississauga Road South
and 181 Lakeshore Road West
Mississauga, Ontario

122120255 REVA
Prepared by KJ on 2017-08-22
Reviewed by BG on 2017-08-22

Client/Project

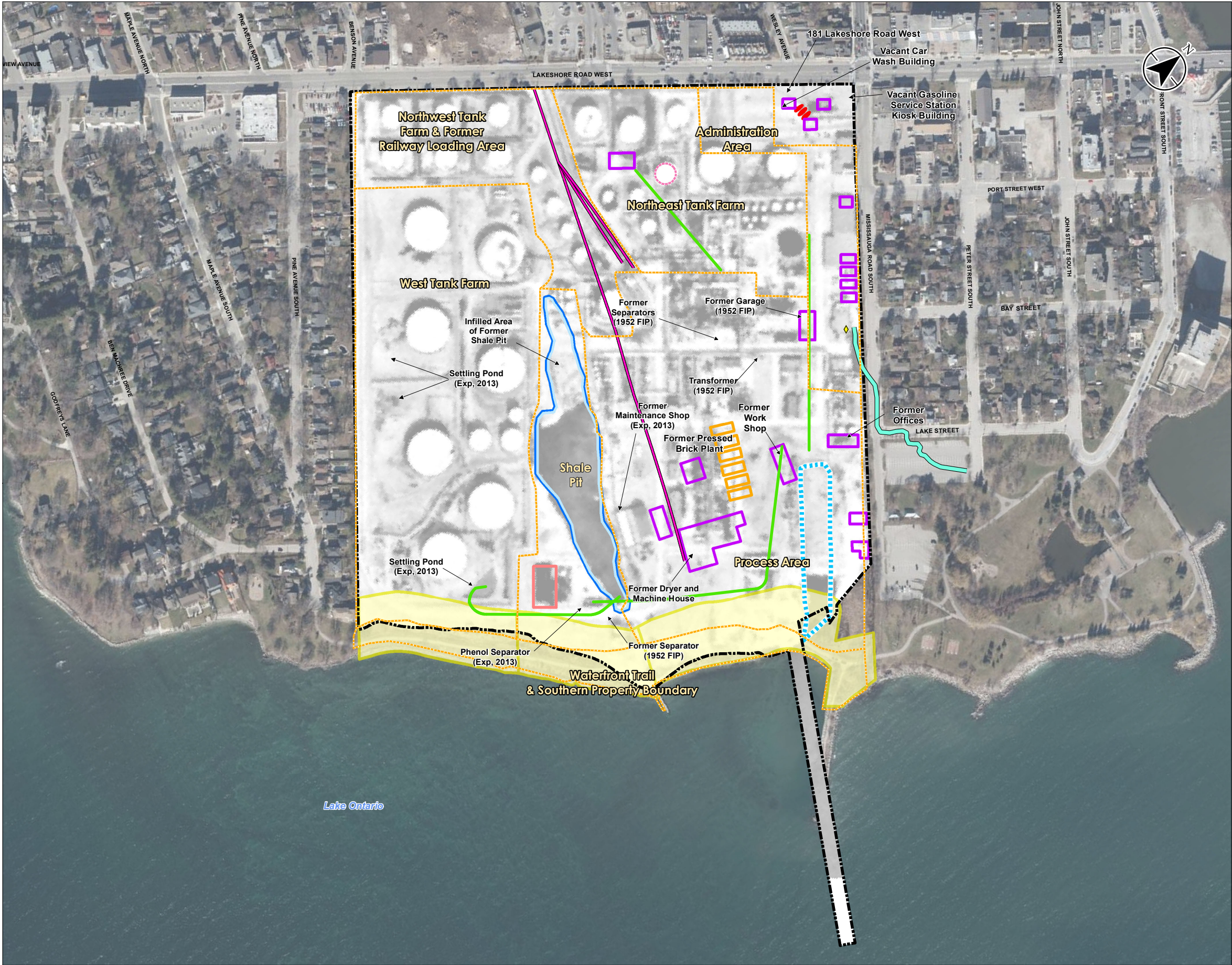
Port Credit West Village Partners Inc.
Phase One Environmental Site Assessment

Figure No.

2

Title

Phase One Study Area - Current and Historical Activities



Legend

- Approximate Location of Former PCB Storage
- Approximate Location of Former Creek, 1928 FIP
- Approximate Location of Former Rail Lines
- Approximate Location of Recovery Trenches (IOL, 1997)
- Approximate Phase One Property Boundary
- API Separator
- Brick Kilns, 1928 FIP
- Building Footprint, 1928 FIP
- Former Slip, 1928 FIP
- Shale Pit Extent, 1910 FIP
- Approximate Area of Former Infill (Golder 1995)
- Area of Previous Investigation (described by Exp, 2013)
- Approximate Location of Tank TK226
- Approximate Location of Former On-Site USTs in Phase One Study Area

0 100 200 metres
1:4,000 (At original document size of 11x17)

- Notes
- Coordinate System: NAD 1983 UTM Zone 17N
 - Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2017.
 - Orthomagey © First Base Solutions, 2017. Imagery Date, 2016.
 - Site features are based on historical documentation referenced in Stantec's report and should be considered approximate.
 - This figure is to be viewed in the context of the accompanying report and is subject to the limitations specified in that report.
 - FIP - Fire Insurance Plan
 - IOL - Imperial Oil Limited



Project Location
70 Mississauga Road South
and 181 Lakeshore Road West
Mississauga, Ontario

122120255
Prepared by KJ on 8/24/2017
Technical Review by BG on 8/24/2017

Client/Project
Port Credit West Village Partners Inc.
Phase One Environmental Site Assessment

Figure No.
3

Title
**Conceptual Site Model -
Historical Site Details**



Legend

- Bedrock Monitoring Well (Stantec, 2017)
- Overburden Monitoring Well (Stantec, 2017)
- Existing Monitoring Well (Bedrock)
- Existing Monitoring Well (Overburden)
- Monitoring Well Damaged or Could Not Be Found (Stantec, 2017)
- Soil Vapour Probe
- Approximate Phase One Property Boundary

0 100 200 metres
1:2,000 (At original document size of 22x34)

Notes

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5. This figure is to be viewed in the context of the accompanying report and is subject to the limitations specified in that report.



Project Location
70 Mississauga Road South
and 181 Lakeshore Road West
Mississauga, Ontario

122120255 REVA
Prepared by KJ on 2017-08-22
Reviewed by BG on 2017-08-22

Client/Project

Port Credit West Village Partners Inc.
Phase One Environmental Site Assessment

Figure No.

4

Title

Conceptual Site Model- Historical Monitoring
Wells and Soil Vapour Probe Locations



Legend

- X- Approximate Location of Fence Line
- - - Approximate Phase One Property Boundary
- API Separator
- Approximate Location of Berms

0 100 200 metres
1:4,000 (At original document size of 11x17)

Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2017.
3. Orthomagery © First Base Solutions, 2017. Imagery Date, 2016.
4. Site features are based on field observations and should be considered approximate.
5. This figure is to be viewed in the context of the accompanying report and is subject to the limitations specified in that report.



Project Location
70 Mississauga Road South
and 181 Lakeshore Road West
Mississauga, Ontario
122120255
Prepared by KJ on 8/24/2017
Technical Review by BG on 8/24/2017

Client/Project
Port Credit West Village Partners Inc.
Phase One Environmental Site Assessment

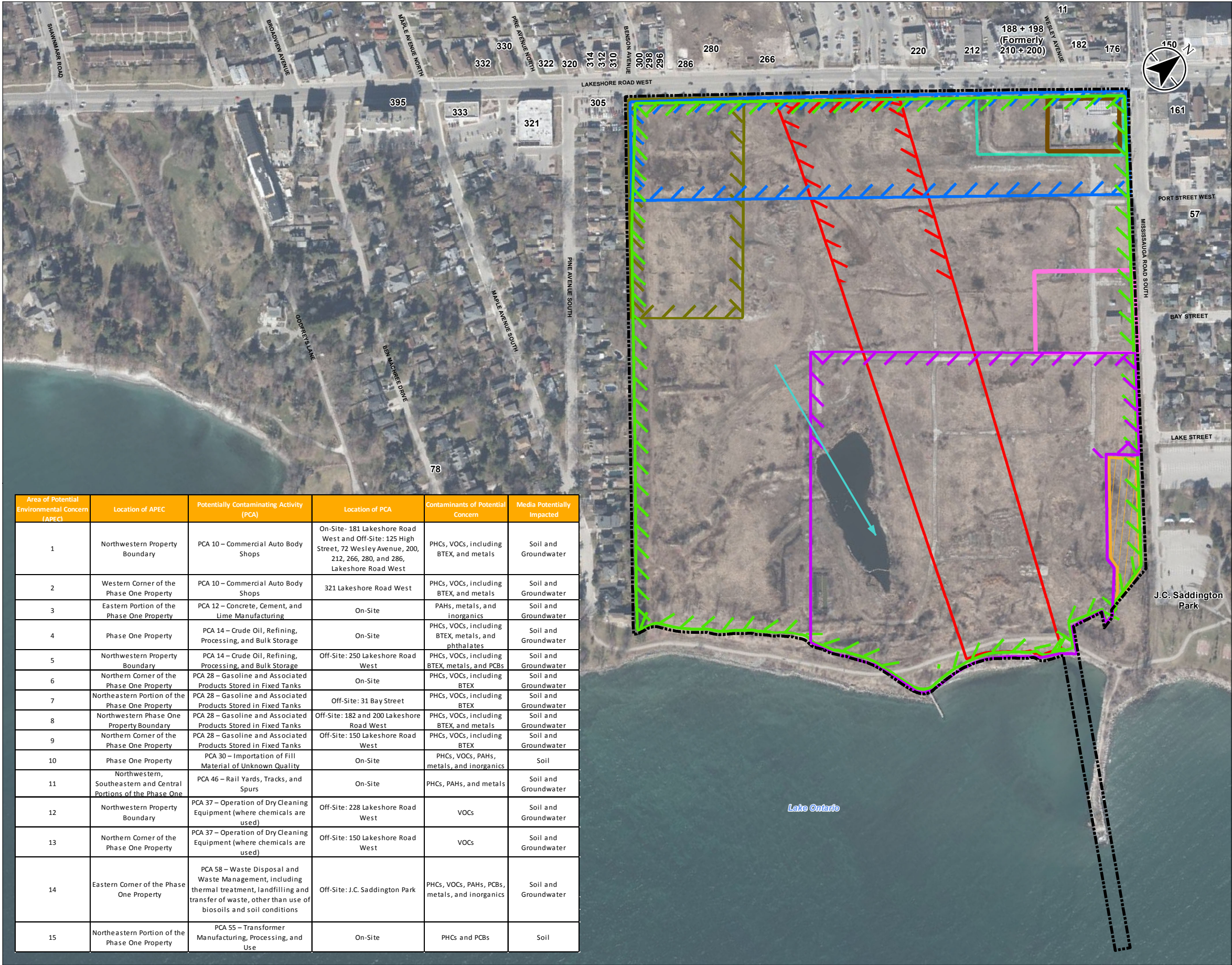
Figure No.

5

Title

Conceptual Site Model- Current Site
Features

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Legend

- Inferred Direction of Groundwater Flow
- Approximate Phase One Property Boundary
- APEC 2
- APEC 3
- APEC 4 and 10
- APEC 1, 5 and 8
- APEC 6, 9 and 13
- APEC 11
- APEC 12
- APEC 14
- APEC 7 and 15

0 100 200 metres
1:4,000 (At original document size of 11x17)

Notes

- Coordinate System: NAD 1983 UTM Zone 17N
- Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2017.
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Project Location
70 Mississauga Road South
and 181 Lakeshore Road West
Mississauga, Ontario

122120255
Prepared by KJ on 8/24/2017
Technical Review by BG on 8/24/2017

Client/Project
Port Credit West Village Partners Inc.
Phase One Environmental Site Assessment

Figure No.

6

Title

Conceptual Site Model- APECs

APPENDIX B

PHOTOGRAPHS



Photo 1: Vacant kiosk building associated with the former gasoline service station in the northern corner of the Phase One Property



Photo 2: Vacant carwash building located in the northern corner of the Phase One Property



Photo 3: Drainage grate located along the northwestern property boundary



Photo 4: Eight drums and an asphalt fill pile located on the northeastern portion of the Phase One Property



Photo 5: Scale and unknown pipe located along the northeastern property boundary



Photo 6: Asphalt and gravel fill piles located along the northeastern portion of the Phase One Property



Photo 7: Vacant Fire Hall Building, facing southeast



Photo 8: Vacant Fire Hall Building, facing north, evidence of black staining



Photo 9: Sea container located northwest of the Fire Hall Building



Photo 10: Gravel overlaying a black tarp, located along the northeastern property boundary



Photo 11: Sewer and former roadway located along the northeastern portion of the Phase One Property



Photo 12: Berm along the southwestern property boundary





Photo 13: Enclosure of the API Separator, facing east



Photo 14: Shale Pit with visible sheen, facing north



Photo 15: Shale Pit, facing north



Photo 16: Stone pile, east of the Shale Pit



Photo 17: Former infrastructure located south of the Shale Pit



Photo 18: Electrical panel, southeast of the Shale Pit



Photo 19: Former drainage pipe, fill pile, and berms, located southwest of the Shale Pit



Photo 21: Brick debris observed along numerous pathways across the Phase One Property



Photo 23: Example of various fill piles observed on the Phase One Property



Photo 20: Pipes associated with former water distribution across the Phase One Property, located along the northwestern and southwestern property boundaries



Photo 22: Example of concrete pieces observed on the Phase One Property



Photo 24: Lake Ontario and the Waterfront Trail, south/southeast of the Phase One Property, facing west



Photo 25: Waterfront Trail, south/southeast of the Phase One Property



Photo 26: J.C. Saddington Park, northeast of the Phase One Property



Photo 27: Drums and monitoring wells, located northeast of the Phase One Property at J.C. Saddington Park



Photo 28: Ben Machree Park located south of the Phase One Property



Photo 29: 321 Lakeshore Road West, located southwest of the Phase One Property



Photo 30: 305 Lakeshore Road West, located southwest of the Phase One Property



Photo 31: Evidence of fill piles at 125 High Street West, located northwest of Lakeshore Road West



Photo 33: 212 Lakeshore Road West, service bays associated with vehicle repair at the car dealership, northwest of the Phase One Property



Photo 35: Mixed commercial and residential building, northwest of the Phase One Property, 188 to 198 Lakeshore Road West



Photo 32: 254 Lakeshore Road West, northwest of the Phase One Property, former Refinery Marketing Area



Photo 34: 176 Lakeshore Road West, located northwest of the Phase One Property



Photo 36: 161 Lakeshore Road West, located northeast of the Phase One Property

APPENDIX C

ASSESSOR QUALIFICATIONS

Breanne Graham, BA. (Hon.) has served as an Environmental Scientist at Stantec since 2012. Breanne's experience includes projects related to the downstream oil and gas sectors and specifically site assessment and remediation, having performed on-site services for some of Stantec's larger oil and gas sector clients. Breanne understands the importance of keeping clear, detailed field notes, and has performed accurate historical reviews, as well as scaled, detailed site/excavation drawings. She is skilled at dealing with contractors, site owners and the public, and understands the importance of confidentiality. Breanne is skilled at performing complex tasks, and has coordinated and supervised environmental investigations including borehole drilling, air monitoring, soil vapour sampling, groundwater monitoring, and soil and groundwater sampling for an extensive list of contaminants including, but not limited to, petroleum hydrocarbons (PHC); volatile organic compounds (VOCs); polycyclic aromatic hydrocarbons (PAHs); heavy metals; polychlorinated biphenyls (PCBs).

EDUCATION

Post Graduate Diploma, Niagara College/Environmental Management and Assessment, Niagara College/Niagara on the Lake Campus, Ontario, 2011

Bachelor of Arts, University of Guelph/ Bachelor of Arts Honours Geography, University of Guelph/ Guelph, Ontario, 2010

CERTIFICATIONS & TRAINING

Certificate, Green Defensive Driving Course, Mississauga, Ontario, 2016

Certificate, Ground Disturbance Training, Markham, Ontario, 2016

Certificate, Transportation of Dangerous Goods, Mississauga, Ontario, 2016

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

Certificate, Workplace Hazardous Material Information System (WHMIS), Stoney Creek, Ontario, 2016

Certificate, Standard Emergency Red Cross First Aid Training, Mississauga, Ontario, 2015

Certificate, Fall Arrest Awareness Training Course / Acute Environmental Services, Markham, Ontario, 2013

Certificate, Traffic Control Technician Course, On Track Safety LTD., Markham, Ontario, 2012

AWARDS

2014 Q1 2014 SGW Canada HSSE Award Winner

PROJECT EXPERIENCE

Groundwater Monitoring

Sheridan Park Groundwater Monitoring and Sampling (Environmental Scientist/Site Assessor)

Responsible for organization and coordination of monthly monitoring programs, semi-annual groundwater monitoring and sampling programs, ordering field equipment, and compiling necessary health and safety documentation. Sampled for an extensive list of contaminants of concern, including PHC, VOCs, PAHs, heavy metals, and PCBs. Responsible for reviewing the analyzed sample data, reviewing tables and figures, and preparing reports. In addition, within the Site Assessor role Breanne completed a Phase I Environmental Site Assessment, which entailed an extensive historical background review, site visit, and preparation of a detailed report in accordance with the CSA Standard Z768-01 (R2012).

Monitoring and Sampling, Toronto, Ontario (Field Supervisor)

Responsible for the organization and coordination of groundwater monitoring programs which includes: ordering field equipment and compiling necessary health and safety documentation. In addition, as field supervisor, Breanne monitored on-site wells, recovered groundwater samples, reviewed the analyzed sample data, and prepared annual reports.

Cristie Breanne Graham BA. (Hon.)

Environmental Scientist

Soil Vapor Intrusion Assessment

Shell Canada Soil Vapor Assessments, Whitby, Ontario (Field Supervisor)

Ensured the installation of traffic control to Book 7 Standards which allowed for soil vapor probe sampling both on and off-site. Sampled for contaminants of concern such as aliphatic and aromatic compounds.

Indoor Air Quality Assessment

Enbridge Gas Distribution Inc. Davis Drive Air Monitoring, Newmarket, Ontario (Field Supervisor)

Responsible for air monitoring, including exposure to contaminants such as VOCs, mercury (Hg), methane (CH₄), oxygen (O₂) and hydrogen sulphide (H₂S) during construction.

Environmental Site Assessments Phase I, II, III

Regent Park Redevelopment Program, Toronto, Ontario (Environmental Scientist/Field Supervisor)

Phase I: Completed an extensive historical records review and multiple site visits.

Phase II: Acted as field supervisor on-site for the drilling of boreholes and installation of monitoring wells. Responsibilities as field supervisor included: ensuring current and accurate utility locates, clear communication with subcontractors, soil sampling, and documenting soil conditions. This job involved both Geotechnical and Environmental drilling components.

Environmental Site Assessments Phase I and II, Mississauga, Windsor, and Kitchener, Ontario (Site Assessor and Field Supervisor)

Phase I: Completed extensive historical background reviews and conducted site visits on numerous sites within Ontario, responsible for conducting site interviews and writing a detailed report.

Phase II: Acted as field supervisor on-site for the drilling of boreholes and installation of monitoring wells. Responsibilities as field supervisor included: ensuring current and accurate utility locates were accurate and up to date, clear communication with subcontractors, soil sampling, accurately documenting soil conditions, and collection of groundwater samples.

Environmental Site Assessments Phase I, Niagara Falls, Ontario (Site Assessor)

Completed an extensive historical background review, site visit, and wrote a detailed report in general accordance with the Regulation 153/04 for a complex Site.

Phase II Environmental Site Assessment, Hamilton, Ontario (Field Supervisor)

Phase II: Acted as field supervisor on-site for the a test pit program across multiple sites. Responsibilities as field supervisor included: ensuring utility locates were accurate and up to date, clear communication with subcontractors, soil sampling, accurately documenting soil conditions, and collection of soil samples.

Phase I Environmental Site Assessment, Hamilton, Ontario (Site Assessor)

Completed an extensive historical background review, site visit, and wrote a detailed report in accordance with the CSA Standard Z768-01 (R2012).

Environmental Site Remediation

Wicksteed, Toronto, Ontario (Environmental Scientist/Field Supervisor)

Responsible for ensuring all contamination was removed off site appropriately. Gathered soil samples, kept detailed field notes, and supervised a large excavation. Responsible for Health and Safety, and liaised with contractors and other consultants on-site.

Oil & Gas Midstream, Terminals

Suncor Energy Products Partnership, Ontario (Environmental Scientist/Field Supervisor)

Responsible for organization and coordination of semi-annual monitoring and sampling programs, ordering equipment, and preparing the necessary health and safety documentation.. The role of field supervisor entails requesting and reviewing public and private utility locates, ensuring all appropriate training is completed, acting as client liaison between the client and office staff while on-site, requesting and following site permits, completing supervising subcontractors and ensuring clear communication, routine monitoring and groundwater sampling of monitoring wells, accurately documenting soil conditions and collecting soil samples during multiple drilling and test pit programs.

* denotes projects completed with other firms

Cristie Breanne Graham BA. (Hon.)

Environmental Scientist

Environmental Site Assessments

Environmental Site Assessments & Geotechnical Work, Toronto, Ontario (Field Supervisor)

Phase II: Acted as field supervisor for the drilling of boreholes, and installation of monitoring wells for geotechnical purposes, and the decommissioning of monitoring wells. Responsibilities as field supervisor included: ensuring utility locates were accurate and up to date, clear communication with subcontractors, soil sampling, accurately documenting soil conditions, and collection of soil samples.

Environmental Site Assessments, Hamilton, Ontario (Field Supervisor)

As field supervisor at this Site, responsibilities include: installing a traffic control plan to Book 7 standards, completing all required health and safety documentation, notifying the client of the work plan, compiling accurate field notes of site conditions, as well as, quarterly groundwater monitoring and sampling visit as well as semi-annual collection of soil vapour probe samples.

Erika Ryter, M.A.Sc., P.Eng., is an environmental engineer and project manager with the Site Management and Remediation group at Stantec. Ms. Ryter completed her master's thesis in the field of contaminant hydrogeology and has over eleven (11) years of consulting experience with Stantec relating to the identification, assessment, and remediation of contaminants in various media. She has conducted and managed over 300 Phase I and II Environmental Site Assessment (ESA) and Remediation projects across Canada and has been involved in all aspects of these projects, from field work to reporting, project management and development of remedial action plans. Ms. Ryter has successfully coordinated the delivery of large-scale portfolio projects within tight timeframes to satisfy client due diligence requirements. Ms. Ryter is a quality reviewer within Stantec for Phase I and II ESAs, is a licensed Professional Engineer in Ontario and is recognized by the MOECC as a Qualified Person for ESAs (QPESA) under O.Reg.153/04.

EDUCATION

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

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

REGISTRATIONS

Professional Engineer #100124633, Professional
Engineers Ontario

PROJECT EXPERIENCE

Environmental Site Assessments Phase I, II, III
Site Assessment of an Industrial Facility,
Scarborough, Ontario (Project Manager, Site
Assessor)

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

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

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

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

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

Erika Ryter M.A.Sc., QP_{ESA}, P.Eng.

Environmental Engineer, Project Manager

Contaminant Overview Studies, Ontario (Quality Reviewer)

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

Environmental Peer Reviews (Site Assessor/Quality Reviewer)

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

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

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

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

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

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

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

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

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

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

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

Environmental Site Remediation

Home Heating Oil Remediation, Coldwater, Ontario (Project Manager)

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

Removal of an Underground Storage Tank and Remediation of Impacted Soil, Bracebridge, Ontario (Project Manager)

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

Subsurface Delineation Program, Remedial Excavation, Vapour and Indoor Air Assessment, Mississauga, Ontario (Project Manager)

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

Soil Assessment, Remediation Programs and Peer Review for Furnace Oil Spills, Ontario (Project Manager, Field Supervisor)

Project management, coordination and field supervision for numerous fuel oil losses for residential properties across Ontario. Managed programs of on- and off-site assessment and delineation, developed remedial action plans, coordinated and managed remedial excavations, restoration and site closure. Provided peer review support for various claims including review of work programs, recommendations for appropriate work plans and review and interpretation of project expenditures.

Soil Remediation Program for a Furnace Oil Spill, Huntsville, Ontario (Assistant Project Manager)

Petroleum hydrocarbon impacts at a residential property were identified following a suspected fuel oil loss from an above-ground storage tank. Project management and field supervision for the excavation and disposal of impacted soil.

Site Documentation and Tender Compliance for a PCB Storage Site, Halifax, Nova Scotia (Field Supervisor)

Responsible for site documentation and supervision of deconstruction and contract compliance at a PCB remediation storage site.

Groundwater Monitoring and Assessment Programs, various sites across Canada (Project Manager, Field Supervisor, Project Coordinator)

Conducted or managed various groundwater monitoring projects including design of sampling programs, regulatory evaluation and comparison, and design and evaluation of remedial strategies.

Erika Ryter M.A.Sc., QP_{ESA}, P.Eng.

Environmental Engineer, Project Manager

Site Management & Remediation

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

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

Mediation Support, Toronto, Ontario (Environmental Engineer)

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

APPENDIX D

SUPPORTING DOCUMENTATION

APPENDIX D-1
PHASE ONE PROPERTY CHAIN OF TITLE
DOCUMENTATION



LAND
REGISTRY
OFFICE #43

PAGE 1 OF 2
PREPARED FOR EEGoolab
ON 2017/05/05 AT 14:18:34

PROPERTY DESCRIPTION:	PT LT 9 BROKEN FRONT RANGE CREDIT INDIAN RESERVE TORONTO; PT LT 10 BROKEN FRONT RANGE CREDIT INDIAN RESERVE TORONTO; PT LT 11 BROKEN FRONT RANGE CREDIT INDIAN RESERVE TORONTO; PT WATER LT LOCATION IN FRONT OF LT 9 BROKEN FRONT RANGE CREDIT INDIAN RESERVE TORONTO PT 1, 2, 4 & 7 43R5868 EXCEPT PT 1, 2, 3, 4 & 5 43R21173, S/T R01104753 ; S/T PC7326 MISSISSAUGA

ESTATE/QUALIFIER:
FEE SIMPLE
LT CONVERSION QUALIFIED

PIN CREATION DATE:
1999/03/25

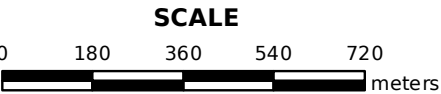
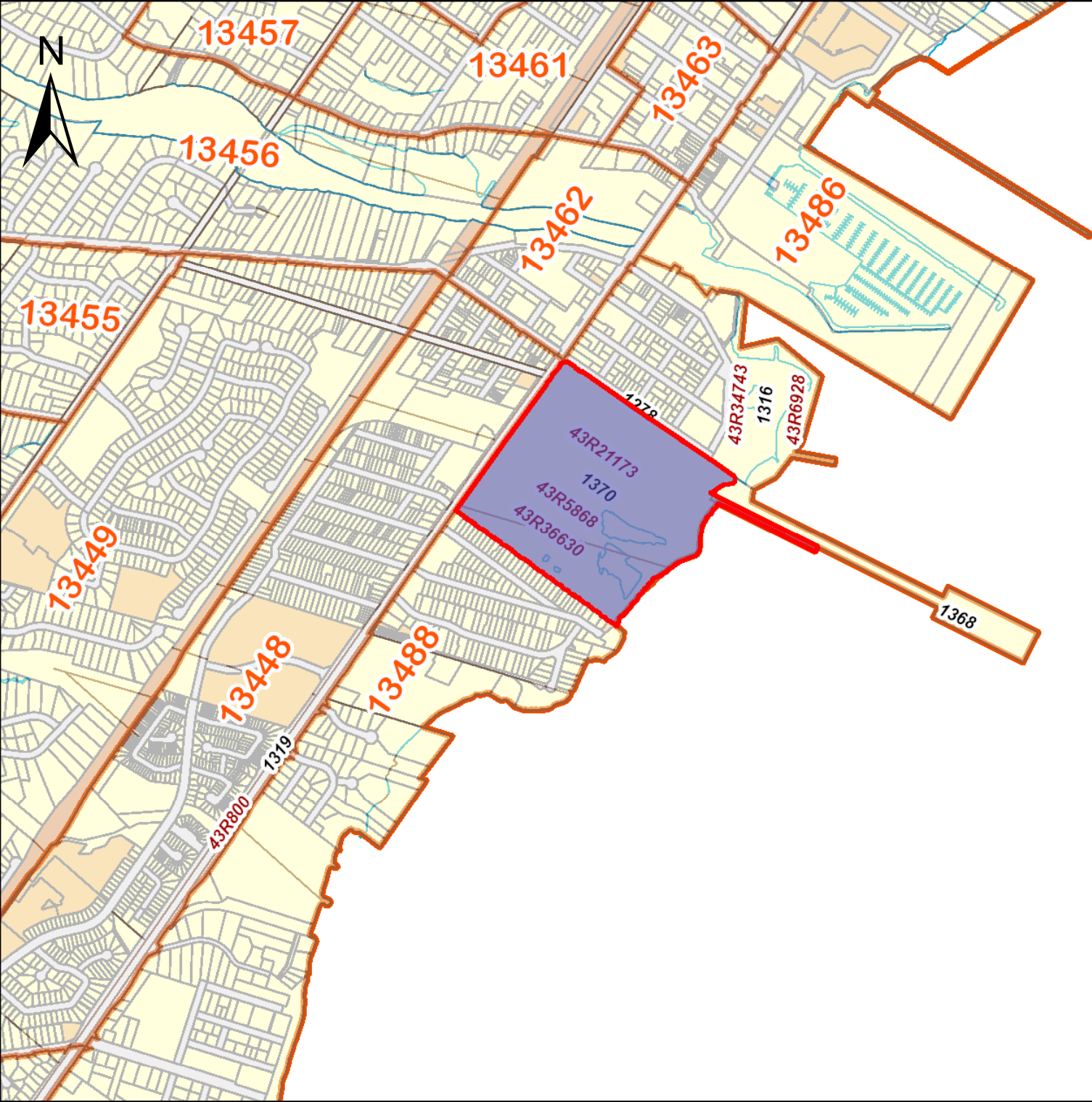
<u>OWNERS' NAMES</u>	<u>CAPACITY</u>	<u>SHARE</u>
PORT CREDIT WEST VILLAGE PARTNERS INC.		

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
EFFECTIVE	2000/07/29	THE NOTATION OF THE	"BLOCK IMPLEMENTATION DATE" OF 1997/09/23 ON THIS PIN			
WAS REPLACED WITH THE	"PIN CREATION DATE"	OF 1999/03/25				
** PRINTOUT	INCLUDES ALL	DOCUMENT TYPES (DELETED INSTRUMENTS NOT INCLUDED) **				
**SUBJECT,	ON FIRST REGISTRATION UNDER THE	LAND TITLES ACT, TO:				
**	SUBSECTION 44 (1) OF THE LAND TITLES ACT, EXCEPT PARAGRAPH 11, PARAGRAPH 14, PROVINCIAL SUCCESSION DUTIES	*				
**	AND ESCHEATS OR FORFEITURE TO THE CROWN.					
**	THE RIGHTS OF ANY PERSON WHO WOULD, BUT FOR THE LAND TITLES ACT, BE ENTITLED TO THE LAND OR ANY PART OF					
**	IT THROUGH LENGTH OF ADVERSE POSSESSION, PRESCRIPTION, MISDESCRIPTION OR BOUNDARIES SETTLED BY					
**	CONVENTION.					
**	ANY LEASE TO WHICH THE SUBSECTION 70(2) OF THE REGISTRY ACT APPLIES.					
**DATE OF CONVERSION TO	LAND TITLES: 1999/03/26 **					
PC7326	1955/02/16	TRANSFER EASEMENT			THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO	C
DP5129	1962/07/11	DEPOSIT				C
DP5208	1962/09/06	DEPOSIT				C
DP5891	1964/01/21	DEPOSIT				C
43R5868	1978/04/11	PLAN REFERENCE				C
43R21173	1995/08/23	PLAN REFERENCE				C
43R36630	2015/07/06	PLAN REFERENCE				C

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

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
PR3098488	2017/03/23	TRANSFER		172965 CANADA LIMITED	PORT CREDIT WEST VILLAGE PARTNERS INC.	C
		REMARKS: PLANNING ACT STATEMENTS.				
PR3098489	2017/03/23	APL ANNEX REST COV		PORT CREDIT WEST VILLAGE PARTNERS INC.		C
PR3098490	2017/03/23	CHARGE		PORT CREDIT WEST VILLAGE PARTNERS INC.	CANADIAN IMPERIAL BANK OF COMMERCE	C

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



PROPERTY INDEX MAP
PEEL(No. 43)

LEGEND

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

THIS IS NOT A PLAN OF SURVEY

NOTES

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

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

FOR DIMENSIONS OF PROPERTIES BOUNDARIES SEE
RECORDED PLANS AND DOCUMENTS

ONLY MAJOR EASEMENTS ARE SHOWN

REFERENCE PLANS UNDERLYING MORE RECENT
REFERENCE PLANS ARE NOT ILLUSTRATED



APPENDIX D-2

ECOLOG ERIS AND OPTA REPORTS



DATABASE REPORT

Project Property: *Port Credit Phase I
10 Mississauga Rd S
Mississauga ON L5H2H1
122120255*

Project No: *122120255*

Report Type: *RSC Report - Quote*

Order No: *20170329097*

Requested by: *Stantec Consulting Ltd.*

Date Completed: *April 5, 2017*

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

www.erisinfo.com

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Executive Summary

Property Information:

Project Property: *Port Credit Phase I
10 Mississauga Rd S Mississauga ON L5H2H1*

Project No: *122120255*

Order Information:

Order No: *20170329097*
Date Requested: *March 29, 2017*
Requested by: *Stantec Consulting Ltd.*
Report Type: *RSC Report - Quote*

Additional Products:

Topographic Map *Ontario Base Map (OBM)*

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Boundary to 0.30km	Total
AAGR	<i>Abandoned Aggregate Inventory</i>	Y	0	0	0
AGR	<i>Aggregate Inventory</i>	Y	0	0	0
AMIS	<i>Abandoned Mine Information System</i>	Y	0	0	0
ANDR	<i>Anderson's Waste Disposal Sites</i>	Y	0	2	2
AUWR	<i>Automobile Wrecking & Supplies</i>	Y	0	0	0
BORE	<i>Borehole</i>	Y	2	141	143
CA	<i>Certificates of Approval</i>	Y	5	16	21
CFOT	<i>Commercial Fuel Oil Tanks</i>	Y	0	0	0
CHEM	<i>Chemical Register</i>	Y	0	0	0
CNG	<i>Compressed Natural Gas Stations</i>	Y	0	0	0
COAL	<i>Inventory of Coal Gasification Plants and Coal Tar Sites</i>	Y	0	0	0
CONV	<i>Compliance and Convictions</i>	Y	0	0	0
CPU	<i>Certificates of Property Use</i>	Y	0	0	0
DRL	<i>Drill Hole Database</i>	Y	0	0	0
EASR	<i>Environmental Activity and Sector Registry</i>	Y	0	0	0
EBR	<i>Environmental Registry</i>	Y	0	0	0
ECA	<i>Environmental Compliance Approval</i>	Y	0	0	0
EEM	<i>Environmental Effects Monitoring</i>	Y	0	0	0
EHS	<i>ERIS Historical Searches</i>	Y	2	17	19
EIIS	<i>Environmental Issues Inventory System</i>	Y	0	0	0
EMHE	<i>Emergency Management Historical Event</i>	Y	0	0	0
EXP	<i>List of TSSA Expired Facilities</i>	Y	0	12	12
FCON	<i>Federal Convictions</i>	Y	0	0	0
FCS	<i>Contaminated Sites on Federal Land</i>	Y	0	0	0
FOFT	<i>Fisheries & Oceans Fuel Tanks</i>	Y	0	0	0
FST	<i>Fuel Storage Tank</i>	Y	0	4	4
FSTH	<i>Fuel Storage Tank - Historic</i>	Y	0	1	1
GEN	<i>Ontario Regulation 347 Waste Generators Summary</i>	Y	14	62	76
GHG	<i>Greenhouse Gas Emissions from Large Facilities</i>	Y	0	0	0
HINC	<i>TSSA Historic Incidents</i>	Y	0	0	0
IAFT	<i>Indian & Northern Affairs Fuel Tanks</i>	Y	0	0	0
INC	<i>TSSA Incidents</i>	Y	0	5	5
LIMO	<i>Landfill Inventory Management Ontario</i>	Y	0	0	0
MINE	<i>Canadian Mine Locations</i>	Y	0	0	0
MNR	<i>Mineral Occurrences</i>	Y	0	0	0
NATE	<i>National Analysis of Trends in Emergencies System (NATES)</i>	Y	0	0	0

Database	Name	Searched	Project Property	Boundary to 0.30km	Total
NCPL	Non-Compliance Reports	Y	0	0	0
NDFT	National Defense & Canadian Forces Fuel Tanks	Y	0	0	0
NDSP	National Defense & Canadian Forces Spills	Y	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Y	0	0	0
NEBW	National Energy Board Wells	Y	0	0	0
NEES	National Environmental Emergencies System (NEES)	Y	0	0	0
NPCB	National PCB Inventory	Y	3	4	7
NPRI	National Pollutant Release Inventory	Y	0	0	0
OGW	Oil and Gas Wells	Y	0	0	0
OOGW	Ontario Oil and Gas Wells	Y	0	0	0
OPCB	Inventory of PCB Storage Sites	Y	3	3	6
ORD	Orders	Y	0	0	0
PAP	Canadian Pulp and Paper	Y	0	0	0
PCFT	Parks Canada Fuel Storage Tanks	Y	0	0	0
PES	Pesticide Register	Y	0	1	1
PINC	TSSA Pipeline Incidents	Y	0	1	1
PIPELINE INCIDENTS PRT	national Energy Board Pipeline Incidents	Y	0	0	0
	Private and Retail Fuel Storage Tanks	Y	0	2	2
PTTW	Permit to Take Water	Y	0	0	0
REC	Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0
RSC	Record of Site Condition	Y	0	1	1
RST	Retail Fuel Storage Tanks	Y	0	0	0
SCT	Scott's Manufacturing Directory	Y	0	12	12
SPL	Ontario Spills	Y	1	13	14
SRDS	Wastewater Discharger Registration Database	Y	0	0	0
TANK	Anderson's Storage Tanks	Y	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Y	0	0	0
VAR	TSSA Variances for Abandonment of Underground Storage Tanks	Y	0	0	0
WDS	Waste Disposal Sites - MOE CA Inventory	Y	0	2	2
WDSH	Waste Disposal Sites - MOE 1991 Historical Approval Inventory	Y	0	1	1
WWIS	Water Well Information System	Y	2	30	32
Total:			32	330	362

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
1	WWIS		ON	-/0.0	2.77	42
2	EHS		250 Lakeshore Rd W & 10 Mississauga Rd S 72 Wesley St & 33 Hanison Ave Mississauga ON	-/0.0	1.16	42
3	BORE		ON	-/0.0	1.01	43
4	WWIS		ON	-/0.0	1.14	43
5	BORE		ON	-/0.0	1.78	44
6	CA	PPM CANADA INC. REFINERY	TEXACO CANADA "PORT CREDIT" MISSISSAUGA CITY ON	-/0.0	1.78	44
6	SPL	TRANS-NORTHERN PIPELINES INC.	COMPANY YARD AT CORNER OF OLD TEXACO REFINERY IN PORT CREDIT. PIPELINE MISSISSAUGA CITY ON	-/0.0	1.78	45
33	CA	SANIVAN GROUP (PORT CREDIT)	10 MISSISSAUGA RD. S. MISSISSAUGA CITY ON L5H 4M6	NNW/38.1	2.31	45
33	CA	SANIVAN GROUP (PORT CREDIT)NOTICE SENT	10 MISSISSAUGA RD. SOUTH MISSISSAUGA CITY ON L5H 4M6	NNW/38.1	2.31	45
33	CA	MAPLE ENG. & CONSTRUCTION CANADA LTD.	10 MISSISSAUGA ROAD SOUTH MISSISSAUGA CITY ON L5H 4M6	NNW/38.1	2.31	4
33	CA	ESSO PETROLEUM CANADA (PORT CREDIT)	10 MISSISSAUGA ROAD SOUTH MISSISSAUGA CITY ON L5H 4M6	NNW/38.1	2.31	46
33	EHS		10 Mississauga Rd S Mississauga ON	NNW/38.1	2.31	46
33	GEN	TEXACO (SEE & USE ON1315723)	REFINERY 10 MISSISSAUGA ROAD SOUTH MISSISSAUGA ON L5H 4M6	NNW/38.1	2.31	46
33	GEN	Imperial Oil	10 Mississauga Road South Mississauga ON	NNW/38.1	2.31	47
33	GEN	Imperial Oil Limited	10 Mississauga Road South Mississauga ON	NNW/38.1	2.31	47
33	GEN	Imperial Oil Limited	10 Mississauga Road South Mississauga ON	NNW/38.1	2.31	47

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
<u>33</u>	GEN	ESSO PETROLUUM CANADA 37-035	10 MISSISSAUGA ROAD S. MISSISSAUGA ON L5H 4M6	NNW/38.1	2.31	<u>48</u>
<u>33</u>	GEN	TEXACO CANADA INC	REFINERY 10 MISSISSAUGA ROAD SOUTH MISSISSAUGA ON L5H 4M6	NNW/38.1	2.31	<u>48</u>
<u>33</u>	GEN	Imperial Oil Limited	10 Mississauga Road South Mississauga ON	NNW/38.1	2.31	<u>48</u>
<u>33</u>	GEN	Imperial Oil	10 Mississauga Road South Mississauga ON L5H 1E3	NNW/38.1	2.31	<u>49</u>
<u>33</u>	GEN	Imperial Oil	10 Mississauga Road South Mississauga ON L5H 2HI	NNW/38.1	2.31	<u>49</u>
<u>33</u>	GEN	TEXACO (SEE & USE ON1315723) 37-035	REFINERY 10 MISSISSAUGA ROAD SOUTH MISSISSAUGA ON L5H 4M6	NNW/38.1	2.31	<u>50</u>
<u>33</u>	GEN	Imperial Oil	10 Mississauga Road South Mississauga ON	NNW/38.1	2.31	<u>50</u>
<u>33</u>	GEN	ESSO PETROLUUM CANADA	10 MISSISSAUGA ROAD SOUTH MISSISSAUGA ON L5G 4M6	NNW/38.1	2.31	<u>50</u>
<u>33</u>	GEN	Imperial Oil Limited	10 Mississauga Road South Mississauga ON L5H 2HI	NNW/38.1	2.31	<u>51</u>
<u>33</u>	GEN	Imperial Oil Limited (c/o Zia Hasan)	10 Mississauga Road South Mississauga ON L5H 2HI	NNW/38.1	2.31	<u>51</u>
<u>33</u>	NPCB	ESSO PETROLEUM CANADA	10 MISSISSAUGA ROAD S. STORAGE SITE; 250 LAKESHORE ROAD MISSISSAUGA ON L5H 4M6	NNW/38.1	2.31	<u>51</u>
<u>33</u>	NPCB	ESSO PETROLEUM CANADA	10 MISSISSAUGA ROAD SOUTH MISSISSAUGA ON L5G 1G9	NNW/38.1	2.31	<u>52</u>
<u>33</u>	NPCB	ESSO PETROLEUM CANADA	10 MISSISSAUGA ROAD SOUTH MISSISSAUGA ON L5G 1G9	NNW/38.1	2.31	<u>52</u>
<u>33</u>	OPCB	ESSO PETROLEUM CANADA	10 Mississauga ROAD SOUTH MISSISSAUGA ON L5H 4M6	NNW/38.1	2.31	<u>52</u>
<u>33</u>	OPCB	ESSO PETROLEUM CANADA	10 Mississauga ROAD SOUTH MISSISSAUGA ON L5H 4M6	NNW/38.1	2.31	<u>52</u>
<u>33</u>	OPCB	ESSO PETROLEUM CANADA	10 Mississauga ROAD SOUTH MISSISSAUGA ON L5H 4M6	NNW/38.1	2.31	<u>53</u>

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
7	BORE		ON	NNE/5.2	1.78	53
8	BORE		ON	NE/5.9	0.86	54
9	BORE		ON	N/7.1	1.78	54
10	BORE		ON	NNE/10.6	1.78	55
11	CA	Imperial Oil Limited	181 Lakeshore Rd W Mississauga ON L5H 1G5	NNW/11.8	1.85	55
11	EHS		181 Lakeshore Rd W Mississauga ON L5H1G5	NNW/11.8	1.85	56
11	FST	765853 ONTARIO LIMITED O/A PORT CREDIT ESSO	181 LAKESHORE RD W MISSISSAUGA ON L5H 1G5	NNW/11.8	1.85	56
11	FST	765853 ONTARIO LIMITED O/A PORT CREDIT ESSO	181 LAKESHORE RD W MISSISSAUGA ON L5H 1G5	NNW/11.8	1.85	56
11	FST	765853 ONTARIO LIMITED O/A PORT CREDIT ESSO	181 LAKESHORE RD W MISSISSAUGA ON L5H 1G5	NNW/11.8	1.85	56
11	FST	765853 ONTARIO LIMITED O/A PORT CREDIT ESSO	181 LAKESHORE RD W MISSISSAUGA ON L5H 1G5	NNW/11.8	1.85	57
11	FSTH	765853 ONTARIO LIMITED O/A PORT CREDIT ESSO	181 LAKESHORE RD W MISSISSAUGA ON L5H 1G5	NNW/11.8	1.85	57
11	GEN	Imperial Oil	181 Lakeshore Road West Mississauga ON L5H 1G5	NNW/11.8	1.85	58
11	PRT	BIGELOW HOLDINGS LTD	181 LAKESHORE RD W MISSISSAUGA ON L5H 1G5	NNW/11.8	1.85	58
11	SPL	ESSO PETROLEUM CANADA	181 LAKESHORE ROAD WEST. SERVICE STATION MISSISSAUGA CITY ON L5H 1G5	NNW/11.8	1.85	58
12	BORE		ON	N/12.9	1.78	58
13	CA	R.M. OF PEEL	BENSON AVE/LAKESHORE RD. MISSISSAUGA CITY ON	W/20.8	5.78	59
13	CA	R.M. OF PEEL	BENSON AVE/LAKESHORE RD. MISSISSAUGA CITY ON	W/20.8	5.78	59
14	BORE		ON	NE/21.7	-0.27	60
15	BORE		ON	NW/21.9	2.43	60
16	BORE		ON	NNW/22.1	2.78	60
17	BORE		ON	WNW/24.5	3.78	61
18	GEN	Petro-Canada	200 Lakeshore Road West Mississauga ON L5H 1G6	NNW/25.4	2.78	61
19	BORE		ON	NW/26.2	2.57	62

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
20	NPCB	ESSO PETROLEUM CANADA	250 LAKESHORE RD.; 10 MISSISSAUGA RD. S. STORAGE SITE; 250 LAKESHORE ROAD MISSISSAUGA ON L5H 2H1	NW/28.2	2.80	62
20	WDS	TEXACO CANADA LTD, PORT CREDIT	ON	NW/28.2	2.80	62
20	WDS	TEXACO CANADA LTD, PORT CREDIT	ON	NW/28.2	2.80	63
21	WWIS		ON	NW/28.8	2.80	64
22	BORE		ON	NNE/29.3	1.78	64
23	GEN	Bentall Kennedy (Canada) LP	220-252 Lakeshore Road West Mississauga ON	WNW/29.5	3.24	65
24	BORE		ON	W/31.0	5.78	65
25	EHS		272 Lakeshore Road West Mississauga ON	WNW/31.0	4.78	66
26	EHS		15 Mississauga Rd S Mississauga On Mississauga ON L5H2H1	N/31.2	1.78	66
27	BORE		ON	WNW/31.3	5.14	66
28	BORE		ON	N/31.9	1.78	67
29	BORE		ON	WNW/31.9	4.78	67
30	BORE		ON	W/32.6	5.78	67
31	EHS		61 Port St. W. Mississauga ON L5H 1E2	N/32.6	1.78	68
32	BORE		ON	W/36.4	5.78	68
34	SPL		Loblaws, Port Credit<UNOFFICIAL> Mississauga ON	WNW/40.0	3.24	68
35	EHS		169 Lakeshore Rd W Mississauga ON L5H1G3	N/40.9	1.78	69
36	BORE		ON	W/44.3	5.78	69
37	WWIS		Mississauga ON	W/44.9	5.78	70
38	BORE		ON	NNW/48.4	2.78	72
39	BORE		ON	S/48.7	1.30	72
40	BORE		ON	ENE/49.0	-2.14	73
41	BORE		ON	S/50.0	-0.05	73
42	GEN	KEITH CARTER BOAT & MARINE LTD. 23-298	182 LAKESHORE RD. W. MISSISSAUGA ON L5H 1G4	NNW/50.1	2.78	74
42	GEN	KEITH CARTER BOAT & MARINE LTD.	182 LAKESHORE RD. W. MISSISSAUGA ON L5H 1G4	NNW/50.1	2.78	74

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42	SCT	CARTER, KEITH BOAT & MARINE	182 LAKESHORE RD W MISSISSAUGA ON L5H 1G4	NNW/50.1	2.78	74
43	WWIS		Mississauga ON	W/50.7	5.78	75
44	EXP	542679 ONTARIO LTD	280 LAKESHORE RD PORT CREDIT MISSISSAUGA ON	W/51.6	5.78	77
44	SCT	RIVERSIDE AUTOMOTIVE	280 LAKESHORE RD W MISSISSAUGA ON L5H 1G6	W/51.6	5.78	77
45	EHS		139 High Street West Mississauga ON L5H 1K4	W/54.0	5.78	77
46	GEN	CITY OF MISSISSAUGA	161 LAKESHORE RD. W. MISSISSAUGA ON	N/54.3	1.78	77
46	GEN	CITY OF MISSISSAUGA	161 LAKESHORE RD. W. MISSISSAUGA ON L5H 1G3	N/54.3	1.78	78
46	GEN	CITY OF MISSISSAUGA	161 LAKESHORE RD. W. MISSISSAUGA ON	N/54.3	1.78	78
46	GEN	CITY OF MISSISSAUGA	161 LAKESHORE RD. W. MISSISSAUGA ON	N/54.3	1.78	78
47	BORE		ON	SSW/54.4	1.78	78
48	BORE		ON	W/55.5	5.78	79
49	GEN	High Benson Holdings Inc.	266 Lakeshore Road W Mississauga ON L5H 1G6	WNW/55.9	4.78	79
50	BORE		ON	NNW/59.1	3.42	80
51	BORE		ON	WSW/59.3	4.78	80
52	BORE		ON	WSW/60.5	4.14	81
53	BORE		ON	WSW/60.6	5.48	81
54	BORE		ON	SW/60.9	3.78	82
55	WWIS		MISSISSAUGA ON	W/61.3	5.78	82
56	BORE		ON	SSW/62.0	1.78	84
57	BORE		ON	SW/67.8	2.78	84
58	CA	R.M. OF PEEL	LAKESHORE RD.W/MISSISSAUGA RD. MISSISSAUGA CITY ON	NNW/68.3	2.78	85
58	CA	MCCOLL-FRONTENAC (ESSO PETROLEUM CANADA)	LAKESHORE DR./MISSISSAUGA RD. MISSISSAUGA CITY ON	NNW/68.3	2.78	85
58	CA	MCCOLL-FRONTENAC (ESSO PETROLEUM CANADA)	LAKESHORE DR./MISSISSAUGA RD. MISSISSAUGA CITY ON	NNW/68.3	2.78	85
58	SPL	The Regional Municipality of Peel	On Lakeshore Rd., just East of Mississauga Rd. Mississauga ON	NNW/68.3	2.78	86
58	SPL	The Regional Municipality of Peel	Lakeshore Rd and Mississauga Rd Mississauga ON	NNW/68.3	2.78	86
58	SPL	MISSISSAUGA PUBLIC WORKS	STADINGTON PARK AT CORNER OF LAKESHORE & MISSISSAUGA ROADS	NNW/68.3	2.78	87

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			MOTOR VEHICLE (OPERATING FLUID) MISSISSAUGA CITY ON			
59	EHS		320 Lakeshore Road West Mississauga ON	W/69.9	5.96	87
60	BORE		ON	W/70.5	5.81	87
61	BORE		ON	SSW/71.2	2.78	88
62	BORE		ON	ENE/72.8	-1.32	88
63	BORE		ON	SW/73.1	3.50	89
64	GEN	Gears Bike Shop	176 Lakeshore Rd West Mississauga ON	NNW/73.3	2.78	89
64	GEN	Gears Bike Shop	176 Lakeshore Rd West Mississauga ON L5H 1G4	NNW/73.3	2.78	89
64	GEN	Gears Bike Shop	176 Lakeshore Rd West Mississauga ON	NNW/73.3	2.78	90
64	GEN	Gears Bike Shop	176 Lakeshore Rd West Mississauga ON	NNW/73.3	2.78	90
64	SCT	GENUINE FAKES	176 LAKESHORE RD W MISSISSAUGA ON L5H 1G4	NNW/73.3	2.78	90
65	BORE		ON	NNE/74.3	0.73	90
66	BORE		ON	NE/74.7	-0.89	91
67	WDSH		Saddlington Park MISSISSAUGA ON	NE/75.4	-0.20	92
68	CA	R.M. OF PEEL	PINE AVE.N./PINE AVE.S. MISSISSAUGA CITY ON	W/76.3	5.78	92
69	WWIS		Mississauga ON	WNW/79.7	5.78	92
70	BORE		ON	NNW/81.5	2.78	94
71	WWIS		Mississauga ON	WSW/82.6	4.78	94
72	INC		11 Wesley Avenue, Mississauga ON L5H 2M4	NNW/85.0	2.78	97
73	BORE		ON	SSW/85.2	1.34	98
74	WWIS		Mississauga ON	WNW/86.6	5.78	98
75	BORE		ON	SSW/87.0	2.07	100
76	BORE		ON	N/88.1	1.90	100
77	BORE		ON	W/88.8	6.78	101
78	RSC	Pelican (Lakeshore) Commercial Inc	321 Lakeshore Road West and 7 Maple Avenue South, Mississauga, Ontario, L5H 1G9 Mississauga ON L5H 1G9	W/89.5	5.78	101

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79	BORE		ON	N/89.9	1.78	102
80	ANDR	Saddington Pk Dump (official)	Mississauga ON L5H	NE/89.9	-0.20	10
81	CA	R.M. OF PEEL	PINE AVE.N./LAKESHORE RD. MISSISSAUGA CITY ON	W/93.1	5.78	10
82	EHS		85 High Street West Mississauga ON L5H 1K3	NW/95.0	2.78	103
83	EHS		170 Lakeshore Drive West Mississauga ON	NNW/95.9	2.39	104
84	BORE		ON	NE/98.2	0.86	104
85	WWIS		MISSISSAUGA ON	WSW/100.1	5.78	104
86	WWIS		Mississauga ON	W/100.8	6.78	106
87	BORE		ON	SSW/101.5	2.43	108
88	BORE		ON	NNE/102.7	1.78	109
89	BORE		ON	NE/105.6	-0.22	109
90	CA	The Regional Municipality of Peel	65 Ben Machree Dr Mississauga ON	S/105.6	-0.07	110
90	CA	The Regional Municipality of Peel	65 Ben Machree Dr Mississauga ON	S/105.6	-0.07	110
91	BORE		ON	NNE/106.4	0.75	110
92	BORE		ON	W/108.0	5.82	111
93	WWIS		MISSISSAUGA ON	WSW/110.3	5.78	111
94	GEN	Salameh Drugs Ltd.	321 LAKESHORE ROAD WEST Mississauga ON	WSW/110.6	5.78	113
94	GEN	Tracy Ferrier	321 Lakeshore Road Wes Mississauga ON L5H 1G9	WSW/110.6	5.78	114
94	GEN	Salameh Drugs Ltd.	321 LAKESHORE ROAD WEST Mississauga ON L5H 1G9	WSW/110.6	5.78	114
94	SCT	Canadian Wiping Cloth Company	321 Lakeshore Rd W Mississauga ON L5H 1G9	WSW/110.6	5.78	114
95	BORE		ON	N/111.0	1.78	115
96	WWIS		Mississauga ON	WNW/111.4	4.78	115
97	BORE		ON	NNW/111.7	3.73	117
98	WWIS		Mississauga ON	WNW/112.8	4.78	118
99	WWIS		Mississauga ON	WNW/113.4	5.78	119
100	GEN	Bell	80 High St Mississauga ON	NW/115.4	3.61	121

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
101	BORE		ON	SW/116.5	2.78	122
102	BORE		ON	N/116.9	1.78	122
103	BORE		ON	NW/120.6	3.22	123
104	GEN	SHOPPERS DRUGMART	228 LAKESHORE ROAD WEST MISSISSAUGA ON L5H 1G6	NW/123.1	2.78	123
104	SCT	Lewis International Shipping	228 Lakeshore Rd W Mississauga ON L5H 4L1	NW/123.1	2.78	123
104	SCT	Advantage Wmq Inc.	228 Lakeshore Rd W Unit 59502 Mississauga ON L5H 1G6	NW/123.1	2.78	124
105	BORE		ON	N/123.2	1.78	124
106	BORE		ON	NW/126.1	3.78	125
107	BORE		ON	NNW/127.1	3.74	125
108	CA	R.M. OF PEEL	HIGH ST./WESLEY CRES. MISSISSAUGA CITY ON	NW/127.8	3.80	12
109	SPL	TRANSPORT TRUCK	LAKESHORE RD & PETER ST. SOUTH MOTOR VEHICLE (OPERATING FLUID) MISSISSAUGA CITY ON	N/128.0	1.78	12
110	BORE		ON	W/128.8	6.78	126
111	BORE		ON	SW/129.3	3.25	127
112	BORE		ON	NE/129.7	-0.29	127
113	WWIS		MISSISSAUGA ON	NW/129.8	3.50	128
114	BORE		ON	NNW/129.8	2.77	130
115	SCT	T V FACTS OAKVILLE	50 BAY ST MISSISSAUGA ON L5H 1C3	NNE/130.4	1.54	131
116	BORE		ON	WSW/132.2	5.78	131
117	WWIS		ON	NNE/136.8	0.75	131
118	BORE		ON	NNE/138.9	1.78	132
119	GEN	Dr. M. Jordan Alley Dentistry PC	150 Lakeshore Road West, Unit 102 Mississauga ON	N/141.4	1.78	132
119	GEN	Dr. M. Jordan Alley Dentistry PC	150 Lakeshore Road West, Unit 102 Mississauga ON L5H 3R2	N/141.4	1.78	133
119	GEN	PHOTOLINE LABS (OUT OF BUSINESS) 30-873	150 LAKESHORE ROAD WEST MISSISSAUGA ON L5H 3R2	N/141.4	1.78	133
119	SCT	PACE PUBLISHING LIMITED	150 LAKESHORE RD W MISSISSAUGA ON L5H 3R2	N/141.4	1.78	133
119	SPL	PIONEER PETROLEUMS LTD.	PIONEER GAS STATION AT 150 LAKESHORE SERVICE STATION MISSISSAUGA CITY ON	N/141.4	1.78	13

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120	BORE		ON	SW/142.1	3.78	134
121	BORE		ON	WNW/143.2	5.78	134
122	BORE		ON	NNE/143.2	0.75	135
123	EHS		224 Lakeshore Road West Mississauga ON L5H 1G6	NW/145.6	2.78	136
123	GEN	2246856 Ontario LTD	224 Lakeshore Rd W unit 8 Mississauga ON L5H1G6	NW/145.6	2.78	136
124	BORE		ON	NNW/146.5	1.78	136
125	GEN	Medical Associates of Port Credit	333 Lakeshore Rd West 2nd Floor Mississauga ON L5H 1G9	WSW/147.3	5.78	137
125	GEN	Medical Associates of Port Credit	333 Lakeshore Rd West 2nd Floor Mississauga ON	WSW/147.3	5.78	137
125	GEN	Medical Associates of Port Credit	333 Lakeshore Rd West 2nd Floor Mississauga ON L5H 1G9	WSW/147.3	5.78	137
125	GEN	MARK LOMAGA MEDICINE PROFESSIONAL CORPORATION	333 Lakeshore Road West Suite 102 Mississauga ON L5H 1G9	WSW/147.3	5.78	138
125	GEN	Medical Associates of Port Credit	333 Lakeshore Rd West 2nd Floor Mississauga ON L5H 1G9	WSW/147.3	5.78	138
125	GEN	MARK LOMAGA MEDICINE PROFESSIONAL CORPORATION	333 Lakeshore Road West Suite 102 Mississauga ON	WSW/147.3	5.78	138
125	GEN	Medical Associates of Port Credit	333 Lakeshore Rd West 2nd Floor Mississauga ON L5H 1G9	WSW/147.3	5.78	138
126	BORE		ON	N/148.4	1.78	139
127	BORE		ON	SSW/152.2	1.21	139
128	INC		9 Maple Avenue South, Mississauga ON	WSW/152.5	4.78	140
128	INC		9 Maple Avenue South, Mississauga ON	WSW/152.5	4.78	140
129	WWIS		Mississauga ON	NW/157.9	3.62	141
130	BORE		ON	WSW/158.8	3.87	144
131	ANDR	Saddington Pk Dump (alt)	Mississauga ON L5G	ENE/159.2	0.78	14
132	BORE		ON	N/160.9	1.78	145
133	BORE		ON	W/161.4	6.78	145
134	BORE		ON	NW/162.7	3.78	146
135	BORE		ON	WSW/163.7	4.78	146
136	BORE		ON	NE/165.7	0.12	146
137	WWIS		Mississauga ON	WNW/166.6	5.56	147

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138	BORE		ON	NW/169.5	3.75	149
139	BORE		ON	W/173.5	7.86	150
140	WWIS		Mississauga ON	WNW/173.9	5.74	150
141	BORE		ON	N/174.3	1.78	153
142	WWIS		MISSISSAUGA (PORT CREDIT) ON	WNW/174.8	5.33	153
143	BORE		ON	WNW/177.1	6.82	155
144	BORE		ON	WSW/177.7	5.78	156
145	WWIS		TORONTO ON	WNW/178.4	6.78	156
146	BORE		ON	NNW/179.3	1.78	158
147	SPL	PRIVATE OWNER	24 JOHN STREET SOUTH SEPTIC SYSTEM	NNE/182.4	1.78	15
148	SCT	Biobrn Div'n	MISSISSAUGA CITY ON L5H 2E4 18 John St S Mississauga ON L5H 2E4	NNE/183.4	1.78	159
149	EHS		29 Mississauga Road North Mississauga ON L5H 2H7	NNW/185.6	1.78	159
150	EHS		220 - 252 Lakeshore Boulevard West Mississauga ON	NW/186.5	3.78	159
151	BORE		ON	WSW/186.6	4.78	160
152	BORE		ON	NW/189.6	4.75	160
153	BORE		ON	SSW/190.0	1.78	161
154	BORE		ON	NNE/190.3	0.87	161
155	WWIS		Mississauga ON	WNW/190.5	5.48	162
156	BORE		ON	SSW/194.7	0.88	164
157	BORE		ON	WSW/201.5	4.78	164
158	BORE		ON	NNE/201.9	1.78	165
159	BORE		ON	NNE/203.9	1.78	165
160	BORE		ON	NNE/204.3	0.83	166
161	WWIS		Mississauga ON	NW/204.6	3.70	166
162	BORE		ON	NE/206.0	-0.22	169
163	BORE		ON	NNW/207.2	1.78	169

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164	BORE		ON	NW/208.4	3.96	170
165	BORE		ON	SSW/208.9	1.58	170
166	BORE		ON	NNE/210.7	1.78	171
167	BORE		ON	W/212.8	7.56	171
168	BORE		ON	WSW/213.1	5.78	172
169	BORE		ON	N/213.3	1.78	172
170	WWIS		MISSISSAUGA ON	NW/214.9	3.71	173
171	BORE		ON	NNW/215.9	1.78	175
172	BORE		ON	N/217.9	1.78	176
173	BORE		ON	WNW/218.8	6.78	176
174	BORE		ON	N/221.0	1.78	176
175	GEN	Imperial Oil	250 Lakeshore Road West Mississauga ON L5H 1G6	WNW/223.1	4.79	177
175	GEN	Imperial Oil	250 Lakeshore Road West Mississauga ON	WNW/223.1	4.79	177
175	GEN	Loblaw Companies Inc	250 Lakeshore Road West Mississauga ON L5H 1G3	WNW/223.1	4.79	178
175	GEN	Loblaw Companies Inc	250 Lakeshore Road West Mississauga ON	WNW/223.1	4.79	179
175	SPL		250 Lakeshore Blvd W Part of Lots 9 to 12 inclusive Range 1 Mississauga Rof Peel Mississauga ON	WNW/223.1	4.79	180
176	WWIS		ON	WNW/224.0	5.86	180
177	BORE		ON	SW/224.8	1.72	182
178	WWIS		Mississauga ON	WNW/226.1	6.82	182
179	PINC		78 BEN MACHREE DR., MISSISSAUGA ON	SSW/226.6	1.78	184
180	GEN	BENTALL KENNEDY (CANADA) LP	220/252 LAKESHORE ROAD WEST MISSISSAUGA ON	WNW/227.3	4.81	185
180	SPL	Region of Peel	220 Lakeshore Rd. W Mississauga ON L5H 1G6	WNW/227.3	4.81	185
181	BORE		ON	W/227.4	7.74	185
182	SPL		28 Pine Street N Mississauga ON	W/227.9	7.81	186
183	BORE		ON	WSW/230.0	5.78	186
184	BORE		ON	NW/230.2	2.81	187

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185	BORE		ON	NNE/230.9	1.68	187
186	BORE		ON	N/231.2	1.78	188
187	BORE		ON	N/232.5	1.78	188
188	BORE		ON	NNW/236.1	1.73	189
189	BORE		ON	NW/236.4	3.79	189
190	EHS		119 - 121 Lakeshore Road West & 7 John Street South Mississauga ON	N/237.2	1.61	189
191	BORE		ON	NNE/240.3	0.27	190
192	BORE		ON	SW/240.6	2.78	190
193	INC		15 HARRISON AVE, MISSISSAUGA ON	WNW/243.4	6.66	191
193	SPL	Unknown<UNOFFICIAL>	15 Harrison Ave Mississauga ON	WNW/243.4	6.66	192
194	BORE		ON	SSW/244.8	1.64	192
195	SCT	DELIGHTS BAKERY	119 LAKESHORE RD W UNIT 6 MISSISSAUGA ON L5H 1E9	N/244.9	1.64	19
196	WWIS		ON	NW/246.8	3.98	193
197	BORE		ON	NNE/246.9	1.48	193
198	GEN	MISSISSAUGA HYDRO PCB	11 JOHN ST. S. C/O 3354 MAVIS RD. MISSISSAUGA ON L5H 2E3	NNE/250.5	1.54	194
198	GEN	MISSISSAUGA HYDRO PCB 00-000	11 JOHN ST. S. C/O 3354 MAVIS RD. MISSISSAUGA ON L5H 2E3	NNE/250.5	1.54	194
199	BORE		ON	W/251.4	7.74	194
200	BORE		ON	WSW/251.9	4.97	195
201	INC		17 HARRISON AVENUE, MISSISSAUGA ON	WNW/254.8	6.78	195
202	BORE		ON	N/256.1	0.93	196
203	BORE		ON	SW/257.3	2.78	196
204	PES	PEERS HARDWARE	113 LAKESHORE ROAD WEST PORT CREDIT ON L5H 1E9	N/257.8	0.82	19
205	BORE		ON	N/258.2	1.78	197
206	BORE		ON	WSW/258.5	6.52	198
207	EHS		92, 94, and 96 Park Street with 250 Lake Shore Road West(Part 3 only) Mississauga(Port Credit) ON	NW/258.5	4.97	198

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208	BORE		ON	NNW/259.9	1.78	198
209	BORE		ON	SW/260.0	2.78	199
210	EHS		87 Park Street West Mississauga ON L5H 1L2	NW/262.7	5.90	199
211	BORE		ON	NW/266.4	5.33	199
212	BORE		ON	WNW/266.7	7.47	200
213	BORE		ON	NW/271.2	4.78	200
214	BORE		ON	NW/271.8	5.49	201
215	BORE		ON	NNW/273.5	0.79	201
216	BORE		ON	SW/276.7	3.11	202
217	BORE		ON	W/276.8	7.88	202
218	WWIS		ON	NW/277.8	3.87	203
219	BORE		ON	W/279.1	8.78	203
220	SCT	N C C PUBLISHING MAGAZINE DIV	106 LAKESHORE RD W MISSISSAUGA ON L5H 1E8	N/279.2	0.12	204
221	SPL	CONTRACTOR	VACANT HOUSE AT 37 BENSON AVE. (N.O.S.) MISSISSAUGA CITY ON L5H 2P3	W/281.1	8.61	20
222	BORE		ON	N/283.3	1.80	204
223	WWIS		MISSISSAUGA ON	NW/283.9	4.92	205
224	CA	R.M. OF PEEL	BEN MACHREE/LAKESHORE RD.W. MISSISSAUGA CITY ON	WSW/286.3	4.78	20
225	BORE		ON	NNW/286.3	2.08	207
226	BORE		ON	NNE/286.9	-0.52	207
227	BORE		ON	NNE/290.3	-1.29	208
228	BORE		ON	WSW/291.8	3.78	208
229	EXP	SUNCOR ENERGY PRODUCTS INC	102 LAKESHORE RD W MISSISSAUGA ON L5H 1E8	N/291.8	0.07	209
229	EXP	SUNCOR ENERGY PRODUCTS INC	102 LAKESHORE RD W MISSISSAUGA ON L5H 1E8	N/291.8	0.07	209
229	EXP	SUNCOR ENERGY PRODUCTS INC	102 LAKESHORE RD W MISSISSAUGA ON	N/291.8	0.07	209
229	EXP	SUNCOR ENERGY PRODUCTS INC	102 LAKESHORE RD W MISSISSAUGA ON	N/291.8	0.07	210
229	EXP	SUNCOR ENERGY PRODUCTS INC	102 LAKESHORE RD W MISSISSAUGA ON	N/291.8	0.07	210

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229	EXP	SUNCOR ENERGY PRODUCTS INC	102 LAKESHORE RD W MISSISSAUGA ON	N/291.8	0.07	210
229	EXP	SUNCOR ENERGY PRODUCTS INC	102 LAKESHORE RD W MISSISSAUGA ON L5H 1E8	N/291.8	0.07	210
229	EXP	SUNCOR ENERGY PRODUCTS INC	102 LAKESHORE RD W MISSISSAUGA ON L5H 1E8	N/291.8	0.07	211
229	EXP	SUNCOR ENERGY PRODUCTS INC	102 LAKESHORE RD W MISSISSAUGA ON L5H 1E8	N/291.8	0.07	211
229	EXP	SUNCOR ENERGY PRODUCTS INC	102 LAKESHORE RD W MISSISSAUGA ON L5H 1E8	N/291.8	0.07	211
229	EXP	SUNCOR ENERGY PRODUCTS INC	102 LAKESHORE RD W MISSISSAUGA ON L5H 1E8	N/291.8	0.07	211
229	PRT	SUNOCO PORTSIDE SERVICE CENTRE INC	102 LAKESHORE RD W MISSISSAUGA ON L5H 1E8	N/291.8	0.07	21
230	EHS		362 Lakeshore Road West Mississauga ON L5H 1H3	WSW/292.3	4.78	212
231	SCT	CLIFFORD K. GOODMAN INC.	10 FRONT ST S MISSISSAUGA ON L5H 2C4	NNE/293.5	-0.72	21
232	BORE		ON	NNW/294.1	1.56	212
233	GEN	PEEL BOARD OF EDUCATION	RIVERSIDE PUBLIC SCHOOL 30 JOHN ST. NORTH MISSISSAUGA ON L5H 2E8	NNW/294.2	2.85	213
233	GEN	PEEL DISTRICT SCHOOL BOARD	30 John Street North Mississauga ON L5H 2E8	NNW/294.2	2.85	213
233	GEN	PEEL DISTRICT SCHOOL BOARD	RIVERSIDE PUBLIC SCHOOL 30 JOHN STREET NORTH MISSISSAUGA ON L5H 2E8	NNW/294.2	2.85	213
233	GEN	PEEL BOARD OF EDUCATION 30-290	RIVERSIDE PUBLIC SCHOOL 30 JOHN ST. NORTH MISSISSAUGA ON L5H 2E8	NNW/294.2	2.85	214
233	GEN	PEEL DISTRICT SCHOOL BOARD	RIVERSIDE PUBLIC SCHOOL 30 JOHN ST. NORTH MISSISSAUGA ON L5H 2E8	NNW/294.2	2.85	214
234	BORE		ON	NNE/294.5	-0.84	215
235	WWIS		Mississauga ON	NW/296.7	5.42	215
236	BORE		ON	N/296.7	2.89	217
237	BORE		ON	W/296.8	8.78	218
238	GEN	Imperial Oil	92 - 96 Park Street West Mississauga ON L5H 1L2	NW/297.2	5.39	218
238	GEN	Imperial Oil	92 - 96 Park Street West Mississauga ON	NW/297.2	5.39	219
239	WWIS		PORT CREDIT ON	NW/297.5	4.66	219
240	GEN	Imperial Oil Limited	92 - 96 Park Street West Mississauga ON L5H 1L2	NW/298.0	4.57	221
240	GEN	Imperial Oil	92 - 96 Park Street West Mississauga ON L5H 1L2	NW/298.0	4.57	221
240	GEN	Imperial Oil Limited	92 - 96 Park Street West Mississauga ON L5H 1L2	NW/298.0	4.57	222

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist (m)</i>	<i>Elev Diff (m)</i>	<i>Page Number</i>
<u>240</u>	GEN	Imperial Oil Limited	92 - 96 Park Street West Mississauga ON L5H 1L2	NW/298.0	4.57	<u>222</u>
<u>241</u>	BORE		ON	N/298.3	1.46	<u>223</u>

Executive Summary: Summary By Data Source

ANDR - Anderson's Waste Disposal Sites

A search of the ANDR database, dated 1860s-Present has found that there are 2 ANDR site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
Saddington Pk Dump (official)	Mississauga ON L5H	89.9	<u>80</u>
Saddington Pk Dump (alt)	Mississauga ON L5G	159.2	<u>131</u>

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2014 has found that there are 143 BORE site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	ON	0.0	<u>3</u>
	ON	0.0	<u>5</u>
	ON	5.2	<u>7</u>
	ON	5.9	<u>8</u>
	ON	7.1	<u>9</u>
	ON	10.6	<u>10</u>
	ON	12.9	<u>12</u>
	ON	21.7	<u>14</u>
	ON	21.9	<u>15</u>
	ON	22.1	<u>16</u>
	ON	24.5	<u>17</u>
	ON	26.2	<u>19</u>
	ON	29.3	<u>22</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	ON	31.0	<u>24</u>
	ON	31.3	<u>27</u>
	ON	31.9	<u>28</u>
	ON	31.9	<u>29</u>
	ON	32.6	<u>30</u>
	ON	36.4	<u>32</u>
	ON	44.3	<u>36</u>
	ON	48.4	<u>38</u>
	ON	48.7	<u>39</u>
	ON	49.0	<u>40</u>
	ON	50.0	<u>41</u>
	ON	54.4	<u>47</u>
	ON	55.5	<u>48</u>
	ON	59.1	<u>50</u>
	ON	59.3	<u>51</u>
	ON	60.5	<u>52</u>
	ON	60.6	<u>53</u>
	ON	60.9	<u>54</u>
	ON	62.0	<u>56</u>
	ON	67.8	<u>57</u>
	ON	70.5	<u>60</u>
	ON	71.2	<u>61</u>
	ON	72.8	<u>62</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	ON	73.1	<u>63</u>
	ON	74.3	<u>65</u>
	ON	74.7	<u>66</u>
	ON	81.5	<u>70</u>
	ON	85.2	<u>73</u>
	ON	87.0	<u>75</u>
	ON	88.1	<u>76</u>
	ON	88.8	<u>77</u>
	ON	89.9	<u>79</u>
	ON	98.2	<u>84</u>
	ON	101.5	<u>87</u>
	ON	102.7	<u>88</u>
	ON	105.6	<u>89</u>
	ON	106.4	<u>91</u>
	ON	108.0	<u>92</u>
	ON	111.0	<u>95</u>
	ON	111.7	<u>97</u>
	ON	116.5	<u>101</u>
	ON	116.9	<u>102</u>
	ON	120.6	<u>103</u>
	ON	123.2	<u>105</u>
	ON	126.1	<u>106</u>
	ON	127.1	<u>107</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	ON	128.8	<u>110</u>
	ON	129.3	<u>111</u>
	ON	129.7	<u>112</u>
	ON	129.8	<u>114</u>
	ON	132.2	<u>116</u>
	ON	138.9	<u>118</u>
	ON	142.1	<u>120</u>
	ON	143.2	<u>121</u>
	ON	143.2	<u>122</u>
	ON	146.5	<u>124</u>
	ON	148.4	<u>126</u>
	ON	152.2	<u>127</u>
	ON	158.8	<u>130</u>
	ON	160.9	<u>132</u>
	ON	161.4	<u>133</u>
	ON	162.7	<u>134</u>
	ON	163.7	<u>135</u>
	ON	165.7	<u>136</u>
	ON	169.5	<u>138</u>
	ON	173.5	<u>139</u>
	ON	174.3	<u>141</u>
	ON	177.1	<u>143</u>
	ON	177.7	<u>144</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	ON	179.3	<u>146</u>
	ON	186.6	<u>151</u>
	ON	189.6	<u>152</u>
	ON	190.0	<u>153</u>
	ON	190.3	<u>154</u>
	ON	194.7	<u>156</u>
	ON	201.5	<u>157</u>
	ON	201.9	<u>158</u>
	ON	203.9	<u>159</u>
	ON	204.3	<u>160</u>
	ON	206.0	<u>162</u>
	ON	207.2	<u>163</u>
	ON	208.4	<u>164</u>
	ON	208.9	<u>165</u>
	ON	210.7	<u>166</u>
	ON	212.8	<u>167</u>
	ON	213.1	<u>168</u>
	ON	213.3	<u>169</u>
	ON	215.9	<u>171</u>
	ON	217.9	<u>172</u>
	ON	218.8	<u>173</u>
	ON	221.0	<u>174</u>
	ON	224.8	<u>177</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	ON	227.4	<u>181</u>
	ON	230.0	<u>183</u>
	ON	230.2	<u>184</u>
	ON	230.9	<u>185</u>
	ON	231.2	<u>186</u>
	ON	232.5	<u>187</u>
	ON	236.1	<u>188</u>
	ON	236.4	<u>189</u>
	ON	240.3	<u>191</u>
	ON	240.6	<u>192</u>
	ON	244.8	<u>194</u>
	ON	246.9	<u>197</u>
	ON	251.4	<u>199</u>
	ON	251.9	<u>200</u>
	ON	256.1	<u>202</u>
	ON	257.3	<u>203</u>
	ON	258.2	<u>205</u>
	ON	258.5	<u>206</u>
	ON	259.9	<u>208</u>
	ON	260.0	<u>209</u>
	ON	266.4	<u>211</u>
	ON	266.7	<u>212</u>
	ON	271.2	<u>213</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	ON	271.8	<u>214</u>
	ON	273.5	<u>215</u>
	ON	276.7	<u>216</u>
	ON	276.8	<u>217</u>
	ON	279.1	<u>219</u>
	ON	283.3	<u>222</u>
	ON	286.3	<u>225</u>
	ON	286.9	<u>226</u>
	ON	290.3	<u>227</u>
	ON	291.8	<u>228</u>
	ON	294.1	<u>232</u>
	ON	294.5	<u>234</u>
	ON	296.7	<u>236</u>
	ON	296.8	<u>237</u>
	ON	298.3	<u>241</u>

CA - Certificates of Approval

A search of the CA database, dated 1985-Oct 30, 2011* has found that there are 17 CA site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
PPM CANADA INC. REFINERY	TEXACO CANADA "PORT CREDIT" MISSISSAUGA CITY ON	0.0	<u>6</u>
Imperial Oil Limited	181 Lakeshore Rd W Mississauga ON L5H 1G5	11.8	<u>11</u>
R.M. OF PEEL	BENSON AVE/LAKESHORE RD. MISSISSAUGA CITY ON	20.8	<u>13</u>
R.M. OF PEEL	BENSON AVE/LAKESHORE RD. MISSISSAUGA CITY ON	20.8	<u>13</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
SANIVAN GROUP (PORT CREDIT)	10 MISSISSAUGA RD. S. MISSISSAUGA CITY ON L5H 4M6	38.1	<u>33</u>
SANIVAN GROUP (PORT CREDIT)NOTICE SENT	10 MISSISSAUGA RD. SOUTH MISSISSAUGA CITY ON L5H 4M6	38.1	<u>33</u>
MAPLE ENG. & CONSTRUCTION CANADA LTD.	10 MISSISSAUGA ROAD SOUTH MISSISSAUGA CITY ON L5H 4M6	38.1	<u>33</u>
ESSO PETROLEUM CANADA (PORT CREDIT)	10 MISSISSAUGA ROAD SOUTH MISSISSAUGA CITY ON L5H 4M6	38.1	<u>33</u>
R.M. OF PEEL	LAKESHORE RD.W/MISSISSAUGA RD. MISSISSAUGA CITY ON	68.3	<u>58</u>
MCCOLL-FRONTENAC (ESSO PETROLEUM CANADA)	LAKESHORE DR./MISSISSAUGA RD. MISSISSAUGA CITY ON	68.3	<u>58</u>
MCCOLL-FRONTENAC (ESSO PETROLEUM CANADA)	LAKESHORE DR./MISSISSAUGA RD. MISSISSAUGA CITY ON	68.3	<u>58</u>
R.M. OF PEEL	PINE AVE.N./PINE AVE.S. MISSISSAUGA CITY ON	76.3	<u>68</u>
R.M. OF PEEL	PINE AVE.N./LAKESHORE RD. MISSISSAUGA CITY ON	93.1	<u>81</u>
The Regional Municipality of Peel	65 Ben Machree Dr Mississauga ON	105.6	<u>90</u>
The Regional Municipality of Peel	65 Ben Machree Dr Mississauga ON	105.6	<u>90</u>
R.M. OF PEEL	HIGH ST./WESLEY CRES. MISSISSAUGA CITY ON	127.8	<u>108</u>
R.M. OF PEEL	BEN MACHREE/LAKESHORE RD.W. MISSISSAUGA CITY ON	286.3	<u>224</u>

EHS - ERIIS Historical Searches

A search of the EHS database, dated 1999-Aug 2016 has found that there are 18 EHS site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	250 Lakeshore Rd W & 10 Mississauga Rd S 72 Wesley St & 33 Hanison Ave Mississauga ON	0.0	<u>2</u>
	181 Lakeshore Rd W Mississauga ON L5H1G5	11.8	<u>11</u>
	272 Lakeshore Road West Mississauga ON	31.0	<u>25</u>
	15 Mississauga Rd S Mississauga On Mississauga ON L5H2H1	31.2	<u>26</u>
	61 Port St. W. Mississauga ON L5H 1E2	32.6	<u>31</u>
	10 Mississauga Rd S Mississauga ON	38.1	<u>33</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	169 Lakeshore Rd W Mississauga ON L5H1G3	40.9	<u>35</u>
	139 High Street West Mississauga ON L5H 1K4	54.0	<u>45</u>
	320 Lakeshore Road West Mississauga ON	69.9	<u>59</u>
	85 High Street West Mississauga ON L5H 1K3	95.0	<u>82</u>
	170 Lakeshore Drive West Mississauga ON	95.9	<u>83</u>
	224 Lakeshore Road West Mississauga ON L5H 1G6	145.6	<u>123</u>
	29 Mississauga Road North Mississauga ON L5H 2H7	185.6	<u>149</u>
	220 - 252 Lakeshore Boulevard West Mississauga ON	186.5	<u>150</u>
	119 - 121 Lakeshore Road West & 7 John Street South Mississauga ON	237.2	<u>190</u>
	92, 94, and 96 Park Street with 250 Lake Shore Road West(Part 3 only) Mississauga(Port Credit) ON	258.5	<u>207</u>
	87 Park Street West Mississauga ON L5H 1L2	262.7	<u>210</u>
	362 Lakeshore Road West Mississauga ON L5H 1H3	292.3	<u>230</u>

EXP - List of TSSA Expired Facilities

A search of the EXP database, dated Feb 28, 2017 has found that there are 12 EXP site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
542679 ONTARIO LTD	280 LAKESHORE RD PORT CREDIT MISSISSAUGA ON	51.6	<u>44</u>
SUNCOR ENERGY PRODUCTS INC	102 LAKESHORE RD W MISSISSAUGA ON L5H 1E8	291.8	<u>229</u>
SUNCOR ENERGY PRODUCTS INC	102 LAKESHORE RD W MISSISSAUGA ON L5H 1E8	291.8	<u>229</u>
SUNCOR ENERGY PRODUCTS INC	102 LAKESHORE RD W MISSISSAUGA ON L5H 1E8	291.8	<u>229</u>
SUNCOR ENERGY PRODUCTS INC	102 LAKESHORE RD W MISSISSAUGA ON L5H 1E8	291.8	<u>229</u>
SUNCOR ENERGY PRODUCTS INC	102 LAKESHORE RD W MISSISSAUGA ON L5H 1E8	291.8	<u>229</u>
SUNCOR ENERGY PRODUCTS INC	102 LAKESHORE RD W MISSISSAUGA ON	291.8	<u>229</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
SUNCOR ENERGY PRODUCTS INC	102 LAKESHORE RD W MISSISSAUGA ON	291.8	229
SUNCOR ENERGY PRODUCTS INC	102 LAKESHORE RD W MISSISSAUGA ON	291.8	229
SUNCOR ENERGY PRODUCTS INC	102 LAKESHORE RD W MISSISSAUGA ON	291.8	229
SUNCOR ENERGY PRODUCTS INC	102 LAKESHORE RD W MISSISSAUGA ON L5H 1E8	291.8	229
SUNCOR ENERGY PRODUCTS INC	102 LAKESHORE RD W MISSISSAUGA ON L5H 1E8	291.8	229

FST - Fuel Storage Tank

A search of the FST database, dated Feb 28, 2017 has found that there are 4 FST site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
765853 ONTARIO LIMITED O/A PORT CREDIT ESSO	181 LAKESHORE RD W MISSISSAUGA ON L5H 1G5	11.8	11
765853 ONTARIO LIMITED O/A PORT CREDIT ESSO	181 LAKESHORE RD W MISSISSAUGA ON L5H 1G5	11.8	11
765853 ONTARIO LIMITED O/A PORT CREDIT ESSO	181 LAKESHORE RD W MISSISSAUGA ON L5H 1G5	11.8	11
765853 ONTARIO LIMITED O/A PORT CREDIT ESSO	181 LAKESHORE RD W MISSISSAUGA ON L5H 1G5	11.8	11

FSTH - Fuel Storage Tank - Historic

A search of the FSTH database, dated Pre-Jan 2010* has found that there are 1 FSTH site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
765853 ONTARIO LIMITED O/A PORT CREDIT ESSO	181 LAKESHORE RD W MISSISSAUGA ON L5H 1G5	11.8	11

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Sep 2016 has found that there are 62 GEN site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
Imperial Oil	181 Lakeshore Road West Mississauga ON L5H 1G5	11.8	11
Petro-Canada	200 Lakeshore Road West Mississauga ON L5H 1G6	25.4	18

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
Bentall Kennedy (Canada) LP	220-252 Lakeshore Road West Mississauga ON	29.5	<u>23</u>
TEXACO (SEE & USE ON1315723)	REFINERY 10 MISSISSAUGA ROAD SOUTH MISSISSAUGA ON L5H 4M6	38.1	<u>33</u>
Imperial Oil	10 Mississauga Road South Mississauga ON	38.1	<u>33</u>
Imperial Oil Limited	10 Mississauga Road South Mississauga ON	38.1	<u>33</u>
Imperial Oil Limited	10 Mississauga Road South Mississauga ON	38.1	<u>33</u>
ESSO PETROLUEM CANADA 37-035	10 MISSISSAUGA ROAD S. MISSISSAUGA ON L5H 4M6	38.1	<u>33</u>
TEXACO CANADA INC	REFINERY 10 MISSISSAUGA ROAD SOUTH MISSISSAUGA ON L5H 4M6	38.1	<u>33</u>
Imperial Oil Limited	10 Mississauga Road South Mississauga ON	38.1	<u>33</u>
Imperial Oil	10 Mississauga Road South Mississauga ON L5H 1E3	38.1	<u>33</u>
Imperial Oil	10 Mississauga Road South Mississauga ON L5H 2H1	38.1	<u>33</u>
TEXACO (SEE & USE ON1315723) 37-035	REFINERY 10 MISSISSAUGA ROAD SOUTH MISSISSAUGA ON L5H 4M6	38.1	<u>33</u>
Imperial Oil	10 Mississauga Road South Mississauga ON	38.1	<u>33</u>
ESSO PETROLUEM CANADA	10 MISSISSAUGA ROAD SOUTH MISSISSAUGA ON L5G 4M6	38.1	<u>33</u>
Imperial Oil Limited	10 Mississauga Road South Mississauga ON L5H 2H1	38.1	<u>33</u>
Imperial Oil Limited (c/o Zia Hasan)	10 Mississauga Road South Mississauga ON L5H 2H1	38.1	<u>33</u>
KEITH CARTER BOAT & MARINE LTD. 23-298	182 LAKESHORE RD. W. MISSISSAUGA ON L5H 1G4	50.1	<u>42</u>
KEITH CARTER BOAT & MARINE LTD.	182 LAKESHORE RD. W. MISSISSAUGA ON L5H 1G4	50.1	<u>42</u>
CITY OF MISSISSAUGA	161 LAKESHORE RD. W. MISSISSAUGA ON	54.3	<u>46</u>
CITY OF MISSISSAUGA	161 LAKESHORE RD. W. MISSISSAUGA ON L5H 1G3	54.3	<u>46</u>
CITY OF MISSISSAUGA	161 LAKESHORE RD. W. MISSISSAUGA ON	54.3	<u>46</u>
CITY OF MISSISSAUGA	161 LAKESHORE RD. W. MISSISSAUGA ON	54.3	<u>46</u>
High Benson Holdings Inc.	266 Lakeshore Road W Mississauga ON L5H 1G6	55.9	<u>49</u>
Gears Bike Shop	176 Lakeshore Rd West Mississauga ON	73.3	<u>64</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
Gears Bike Shop	176 Lakeshore Rd West Mississauga ON L5H 1G4	73.3	<u>64</u>
Gears Bike Shop	176 Lakeshore Rd West Mississauga ON	73.3	<u>64</u>
Gears Bike Shop	176 Lakeshore Rd West Mississauga ON	73.3	<u>64</u>
Salameh Drugs Ltd.	321 LAKESHORE ROAD WEST Mississauga ON	110.6	<u>94</u>
Tracy Ferrier	321 Lakeshore Road Wes Mississauga ON L5H 1G9	110.6	<u>94</u>
Salameh Drugs Ltd.	321 LAKESHORE ROAD WEST Mississauga ON L5H 1G9	110.6	<u>94</u>
Bell	80 High St Mississauga ON	115.4	<u>100</u>
SHOPPERS DRUGMART	228 LAKESHORE ROAD WEST MISSISSAUGA ON L5H 1G6	123.1	<u>104</u>
Dr. M. Jordan Alley Dentistry PC	150 Lakeshore Road West, Unit 102 Mississauga ON	141.4	<u>119</u>
Dr. M. Jordan Alley Dentistry PC	150 Lakeshore Road West, Unit 102 Mississauga ON L5H 3R2	141.4	<u>119</u>
PHOTOLINE LABS (OUT OF BUSINESS) 30-873	150 LAKESHORE ROAD WEST MISSISSAUGA ON L5H 3R2	141.4	<u>119</u>
2246856 Ontario LTD	224 Lakeshore Rd W unit 8 Mississauga ON L5H1G6	145.6	<u>123</u>
Medical Associates of Port Credit	333 Lakeshore Rd West 2nd Floor Mississauga ON L5H 1G9	147.3	<u>125</u>
Medical Associates of Port Credit	333 Lakeshore Rd West 2nd Floor Mississauga ON	147.3	<u>125</u>
Medical Associates of Port Credit	333 Lakeshore Rd West 2nd Floor Mississauga ON L5H 1G9	147.3	<u>125</u>
MARK LOMAGA MEDICINE PROFESSIONAL CORPORATION	333 Lakeshore Road West Suite 102 Mississauga ON L5H 1G9	147.3	<u>125</u>
Medical Associates of Port Credit	333 Lakeshore Rd West 2nd Floor Mississauga ON L5H 1G9	147.3	<u>125</u>
MARK LOMAGA MEDICINE PROFESSIONAL CORPORATION	333 Lakeshore Road West Suite 102 Mississauga ON	147.3	<u>125</u>
Medical Associates of Port Credit	333 Lakeshore Rd West 2nd Floor Mississauga ON L5H 1G9	147.3	<u>125</u>
Imperial Oil	250 Lakeshore Road West Mississauga ON L5H 1G6	223.1	<u>175</u>
Imperial Oil	250 Lakeshore Road West Mississauga ON	223.1	<u>175</u>
Loblaw Companies Inc	250 Lakeshore Road West Mississauga ON L5H 1G3	223.1	<u>175</u>
Loblaw Companies Inc	250 Lakeshore Road West Mississauga ON	223.1	<u>175</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
BENTALL KENNEDY (CANADA) LP	220/252 LAKESHORE ROAD WEST MISSISSAUGA ON	227.3	<u>180</u>
MISSISSAUGA HYDRO PCB	11 JOHN ST. S. C/O 3354 MAVIS RD. MISSISSAUGA ON L5H 2E3	250.5	<u>198</u>
MISSISSAUGA HYDRO PCB 00-000	11 JOHN ST. S. C/O 3354 MAVIS RD. MISSISSAUGA ON L5H 2E3	250.5	<u>198</u>
PEEL BOARD OF EDUCATION	RIVERSIDE PUBLIC SCHOOL 30 JOHN ST. NORTH MISSISSAUGA ON L5H 2E8	294.2	<u>233</u>
PEEL DISTRICT SCHOOL BOARD	30 John Street North Mississauga ON L5H 2E8	294.2	<u>233</u>
PEEL DISTRICT SCHOOL BOARD	RIVERSIDE PUBLIC SCHOOL 30 JOHN STREET NORTH MISSISSAUGA ON L5H 2E8	294.2	<u>233</u>
PEEL BOARD OF EDUCATION 30-290	RIVERSIDE PUBLIC SCHOOL 30 JOHN ST. NORTH MISSISSAUGA ON L5H 2E8	294.2	<u>233</u>
PEEL DISTRICT SCHOOL BOARD	RIVERSIDE PUBLIC SCHOOL 30 JOHN ST. NORTH MISSISSAUGA ON L5H 2E8	294.2	<u>233</u>
Imperial Oil	92 - 96 Park Street West Mississauga ON L5H 1L2	297.2	<u>238</u>
Imperial Oil	92 - 96 Park Street West Mississauga ON	297.2	<u>238</u>
Imperial Oil Limited	92 - 96 Park Street West Mississauga ON L5H 1L2	298.0	<u>240</u>
Imperial Oil	92 - 96 Park Street West Mississauga ON L5H 1L2	298.0	<u>240</u>
Imperial Oil Limited	92 - 96 Park Street West Mississauga ON L5H 1L2	298.0	<u>240</u>
Imperial Oil Limited	92 - 96 Park Street West Mississauga ON L5H 1L2	298.0	<u>240</u>

INC - TSSA Incidents

A search of the INC database, dated Feb 28, 2017 has found that there are 5 INC site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	11 Wesley Avenue, Mississauga ON L5H 2M4	85.0	<u>72</u>
	9 Maple Avenue South, Mississauga ON	152.5	<u>128</u>
	9 Maple Avenue South, Mississauga ON	152.5	<u>128</u>
	15 HARRISON AVE, MISSISSAUGA ON	243.4	<u>193</u>
	17 HARRISON AVENUE, MISSISSAUGA ON	254.8	<u>201</u>

NPCB - National PCB Inventory

A search of the NPCB database, dated 1988-2008* has found that there are 4 NPCB site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
ESSO PETROLEUM CANADA	250 LAKESHORE RD.; 10 MISSISSAUGA RD. S. STORAGE SITE; 250 LAKESHORE ROAD	28.2	<u>20</u>
ESSO PETROLEUM CANADA	MISSISSAUGA ON L5H 2H1 10 MISSISSAUGA ROAD SOUTH MISSISSAUGA ON L5G 1G9	38.1	<u>33</u>
ESSO PETROLEUM CANADA	10 MISSISSAUGA ROAD SOUTH MISSISSAUGA ON L5G 1G9	38.1	<u>33</u>
ESSO PETROLEUM CANADA	10 MISSISSAUGA ROAD S. STORAGE SITE; 250 LAKESHORE ROAD MISSISSAUGA ON L5H 4M6	38.1	<u>33</u>

OPCB - Inventory of PCB Storage Sites

A search of the OPCB database, dated 1987-Oct 2004; 2012-Dec 2013 has found that there are 3 OPCB site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
ESSO PETROLEUM CANADA	10 Mississauga ROAD SOUTH MISSISSAUGA ON L5H 4M6	38.1	<u>33</u>
ESSO PETROLEUM CANADA	10 Mississauga ROAD SOUTH MISSISSAUGA ON L5H 4M6	38.1	<u>33</u>
ESSO PETROLEUM CANADA	10 Mississauga ROAD SOUTH MISSISSAUGA ON L5H 4M6	38.1	<u>33</u>

PES - Pesticide Register

A search of the PES database, dated 1988-Oct 2016 has found that there are 1 PES site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
PEERS HARDWARE	113 LAKESHORE ROAD WEST PORT CREDIT ON L5H 1E9	257.8	<u>204</u>

PINC - TSSA Pipeline Incidents

A search of the PINC database, dated Feb 28, 2017 has found that there are 1 PINC site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	78 BEN MACHREE DR., MISSISSAUGA ON	226.6	<u>179</u>

PRT - Private and Retail Fuel Storage Tanks

A search of the PRT database, dated 1989-1996* has found that there are 2 PRT site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
BIGELOW HOLDINGS LTD	181 LAKESHORE RD W MISSISSAUGA ON L5H 1G5	11.8	<u>11</u>
SUNOCO PORTSIDE SERVICE CENTRE INC	102 LAKESHORE RD W MISSISSAUGA ON L5H 1E8	291.8	<u>229</u>

RSC - Record of Site Condition

A search of the RSC database, dated 1997-Sept 2001, Oct 2004-Dec 2016 has found that there are 1 RSC site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
Pelican (Lakeshore) Commercial Inc	321 Lakeshore Road West and 7 Maple Avenue South, Mississauga, Ontario, L5H 1G9 Mississauga ON L5H 1G9	89.5	<u>78</u>

SCT - Scott's Manufacturing Directory

A search of the SCT database, dated 1992-Mar 2011* has found that there are 12 SCT site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
CARTER, KEITH BOAT & MARINE	182 LAKESHORE RD W MISSISSAUGA ON L5H 1G4	50.1	<u>42</u>
RIVERSIDE AUTOMOTIVE	280 LAKESHORE RD W MISSISSAUGA ON L5H 1G6	51.6	<u>44</u>
GENUINE FAKES	176 LAKESHORE RD W MISSISSAUGA ON L5H 1G4	73.3	<u>64</u>
Canadian Wiping Cloth Company	321 Lakeshore Rd W Mississauga ON L5H 1G9	110.6	<u>94</u>
Advantage Wmq Inc.	228 Lakeshore Rd W Unit 59502 Mississauga ON L5H 1G6	123.1	<u>104</u>
Lewis International Shipping	228 Lakeshore Rd W Mississauga ON L5H 4L1	123.1	<u>104</u>
T V FACTS OAKVILLE	50 BAY ST MISSISSAUGA ON L5H 1C3	130.4	<u>115</u>
PACE PUBLISHING LIMITED	150 LAKESHORE RD W MISSISSAUGA ON L5H 3R2	141.4	<u>119</u>
Biobrn Div'n	18 John St S Mississauga ON L5H 2E4	183.4	<u>148</u>
DELIGHTS BAKERY	119 LAKESHORE RD W UNIT 6 MISSISSAUGA ON L5H 1E9	244.9	<u>195</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
N C C PUBLISHING MAGAZINE DIV	106 LAKESHORE RD W MISSISSAUGA ON L5H 1E8	279.2	<u>220</u>
CLIFFORD K. GOODMAN INC.	10 FRONT ST S MISSISSAUGA ON L5H 2C4	293.5	<u>231</u>

SPL - Ontario Spills

A search of the SPL database, dated 1988-Dec 2016 has found that there are 14 SPL site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
TRANS-NORTHERN PIPELINES INC.	COMPANY YARD AT CORNER OF OLD TEXACO REFINERY IN PORT CREDIT. PIPELINE	0.0	<u>6</u>
ESSO PETROLEUM CANADA	MISSISSAUGA CITY ON 181 LAKESHORE ROAD WEST. SERVICE STATION	11.8	<u>11</u>
	MISSISSAUGA CITY ON L5H 1G5 Loblaws, Port Credit<UNOFFICIAL> Mississauga ON	40.0	<u>34</u>
MISSISSAUGA PUBLIC WORKS	STADINGTON PARK AT CORNER OF LAKESHORE & MISSISSAUGA ROADS MOTOR VEHICLE (OPERATING FLUID)	68.3	<u>58</u>
The Regional Municipality of Peel	MISSISSAUGA CITY ON Lakeshore Rd and Mississauga Rd Mississauga ON	68.3	<u>58</u>
The Regional Municipality of Peel	On Lakeshore Rd., just East of Mississauga Rd. Mississauga ON	68.3	<u>58</u>
TRANSPORT TRUCK	LAKESHORE RD & PETER ST. SOUTH MOTOR VEHICLE (OPERATING FLUID)	128.0	<u>109</u>
PIONEER PETROLEUMS LTD.	MISSISSAUGA CITY ON PIONEER GAS STATION AT 150 LAKESHORE SERVICE STATION	141.4	<u>119</u>
PRIVATE OWNER	MISSISSAUGA CITY ON 24 JOHN STREET SOUTH SEPTIC SYSTEM	182.4	<u>147</u>
	MISSISSAUGA CITY ON L5H 2E4		
	250 Lakeshore Blvd W Part of Lots 9 to 12 inclusive Range 1 Mississauga Rof Peel Mississauga ON	223.1	<u>175</u>
Region of Peel	220 Lakeshore Rd. W Mississauga ON L5H 1G6	227.3	<u>180</u>
	28 Pine Street N Mississauga ON	227.9	<u>182</u>
Unknown<UNOFFICIAL>	15 Harrison Ave Mississauga ON	243.4	<u>193</u>
CONTRACTOR	VACANT HOUSE AT 37 BENSON AVE. (N.O.S.) MISSISSAUGA CITY ON L5H 2P3	281.1	<u>221</u>

WDS - Waste Disposal Sites - MOE CA Inventory

A search of the WDS database, dated 1970-Nov 2016 has found that there are 2 WDS site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
TEXACO CANADA LTD, PORT CREDIT	ON	28.2	<u>20</u>
TEXACO CANADA LTD, PORT CREDIT	ON	28.2	<u>20</u>

WDSH - Waste Disposal Sites - MOE 1991 Historical Approval Inventory

A search of the WDSH database, dated Up to Oct 1990* has found that there are 1 WDSH site(s) within approximately 0.30 kilometers of the project property.

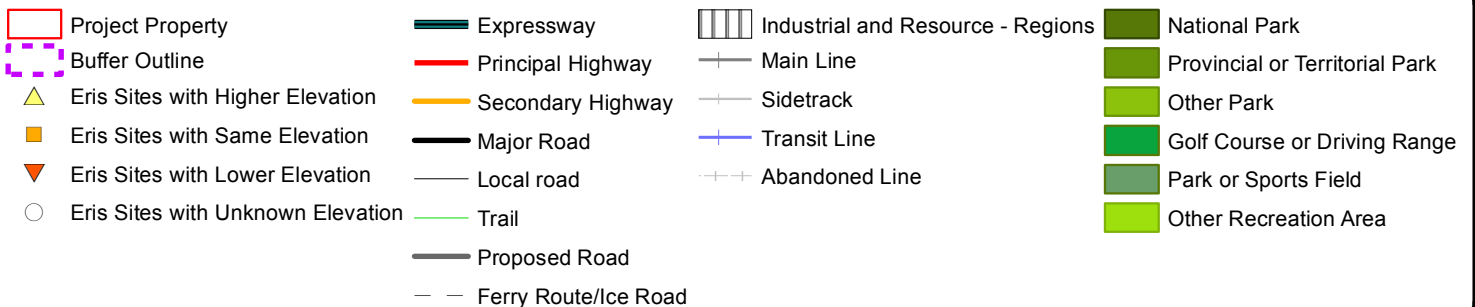
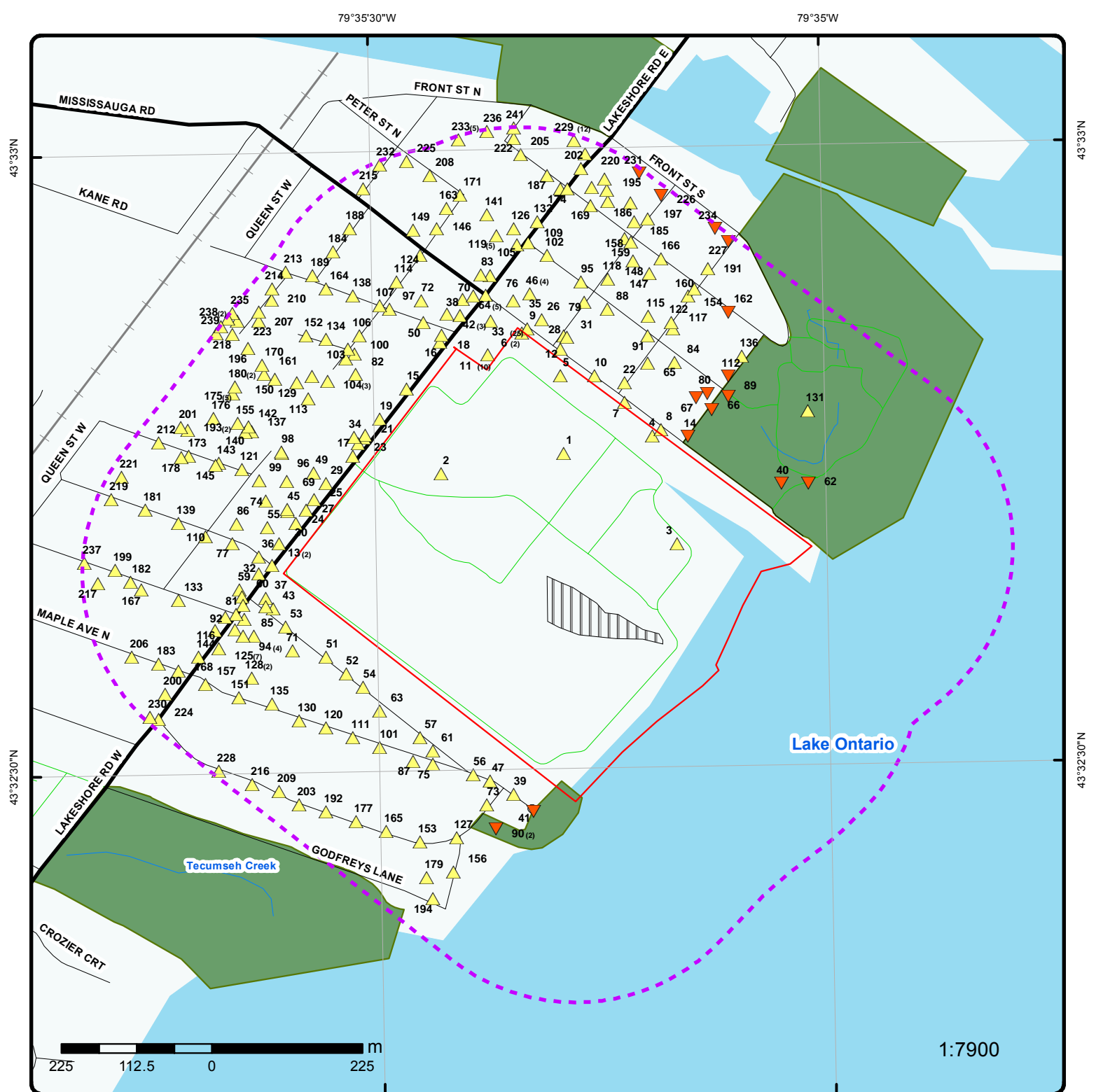
<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	Saddlington Park MISSISSAUGA ON	75.4	<u>67</u>

WWIS - Water Well Information System

A search of the WWIS database, dated Jun 30, 2016 has found that there are 32 WWIS site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	ON	0.0	<u>1</u>
	ON	0.0	<u>4</u>
	ON	28.8	<u>21</u>
	Mississauga ON	44.9	<u>37</u>
	Mississauga ON	50.7	<u>43</u>
	MISSISSAUGA ON	61.3	<u>55</u>
	Mississauga ON	79.7	<u>69</u>
	Mississauga ON	82.6	<u>71</u>
	Mississauga ON	86.6	<u>74</u>
	MISSISSAUGA ON	100.1	<u>85</u>
	Mississauga ON	100.8	<u>86</u>
	MISSISSAUGA ON	110.3	<u>93</u>
	Mississauga ON	111.4	<u>96</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	Mississauga ON	112.8	<u>98</u>
	Mississauga ON	113.4	<u>99</u>
	MISSISSAUGA ON	129.8	<u>113</u>
	ON	136.8	<u>117</u>
	Mississauga ON	157.9	<u>129</u>
	Mississauga ON	166.6	<u>137</u>
	Mississauga ON	173.9	<u>140</u>
	MISSISSAUGA (PORT CREDIT) ON	174.8	<u>142</u>
	TORONTO ON	178.4	<u>145</u>
	Mississauga ON	190.5	<u>155</u>
	Mississauga ON	204.6	<u>161</u>
	MISSISSAUGA ON	214.9	<u>170</u>
	ON	224.0	<u>176</u>
	Mississauga ON	226.1	<u>178</u>
	ON	246.8	<u>196</u>
	ON	277.8	<u>218</u>
	MISSISSAUGA ON	283.9	<u>223</u>
	Mississauga ON	296.7	<u>235</u>
	PORT CREDIT ON	297.5	<u>239</u>



79°36'W

43°33'N

43°33'N



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

1:10000

Aerial

Address: 10 Mississauga Rd S, Mississauga, ON, L5H2H1

Source: ESRI World Imagery

Order No: 20170329097

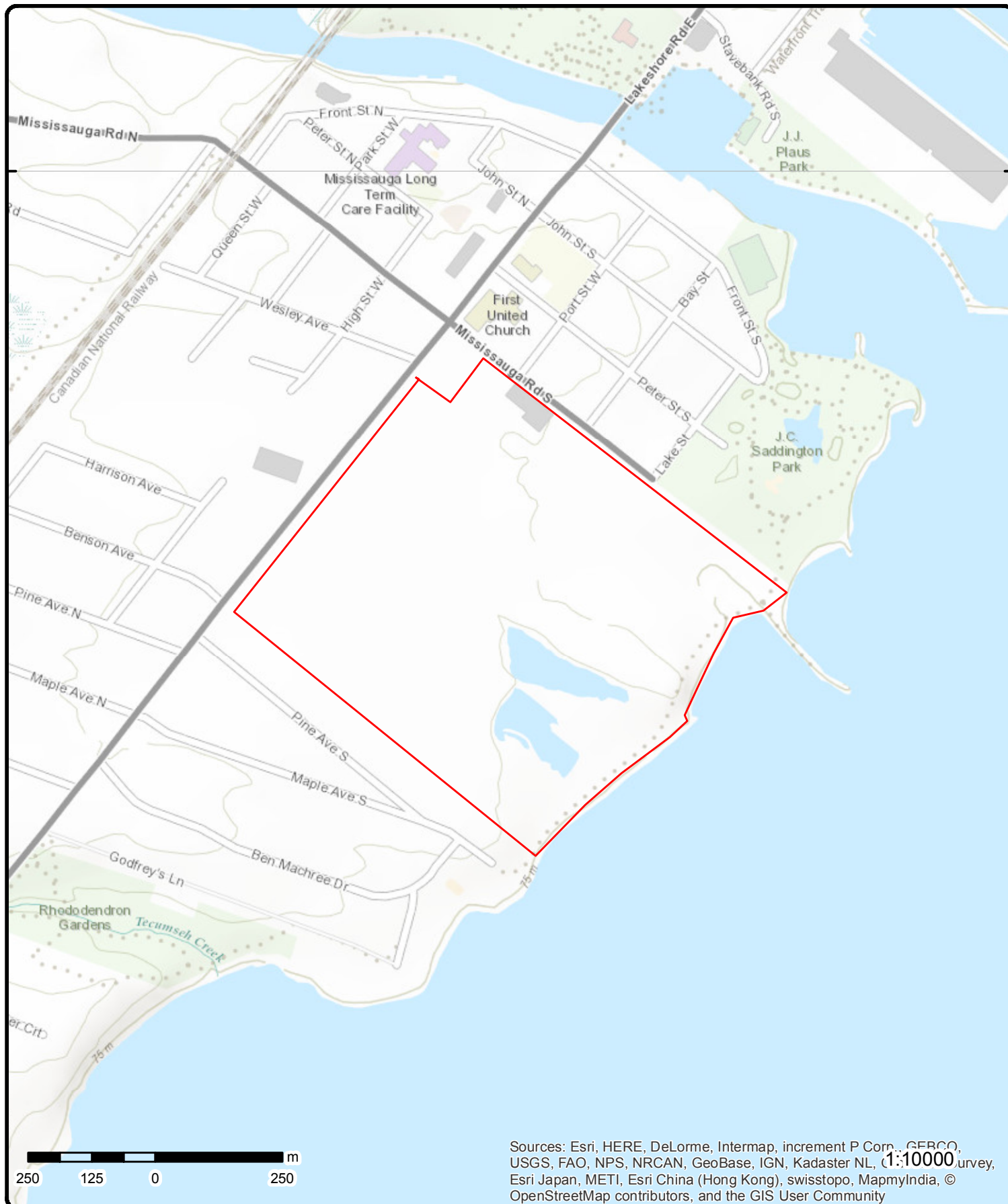
ERIS
ENVIRONMENTAL RISK INFORMATION SERVICES



© ERIS Information Limited Partnership

43°33'N

43°33'N



Topographic Map

Address: 10 Mississauga Rd S, Mississauga, ON, L5H2H1

Source: ESRI World Topographic Map

Order No: 20170329097



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Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
1	1 of 1	-/0.0	80.8	ON	WWIS
<div> <div>Well ID: 7247765</div> <div>Construction Date::</div> <div>Primary Water Use::</div> <div>Sec. Water Use::</div> <div>Final Well Status::</div> <div>Specific Capacity::</div> <div>Municipality: MISSISSAUGA CITY (PORT CREDIT)</div> <div>County: PEEL</div> </div> <div> <div>Lot:</div> <div>Concession:</div> <div>Concession Name:</div> <div>Easting NAD83::</div> <div>Northing NAD83::</div> <div>Zone::</div> <div>UTM Reliability::</div> </div>					
Bore Hole Information					
--					
Bore Hole ID: 1005667305					
DP2BR:					
Code OB:					
Code OB Description:					
Open Hole:					
Date Completed: 26-MAR-15					
Remarks:					
Zone: 17					
East 83: 614049					
North 83: 4822407					
UTMRC: 4					
UTMRC Description: margin of error : 30 m - 100 m					
Location Method: wwr					
Org CS: UTM83					
Elevation:					
Elevrc:					
Elevrc Description:					
Location Source Date:					
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					
--					
--					
2	1 of 1	-/0.0	79.2	250 Lakeshore Rd W & 10 Mississauga Rd S 72 Wesley St & 33 Hanison Ave Mississauga ON	EHS
Postal Code:					
City:					
Address2:					
Address1:					
Provstate:					
Order No.: 20080926015					
Addit. Info Ordered::					
Report Date: 10/7/2008					
Report Type: Custom Report					
Search Radius (km): 0.25					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
3	1 of 1	-/0.0	79.1	ON	BORE
<div> <div> Borehole ID: 646194 Use: Geotechnical/Geological Investigation Drill Method:: Power auger Easting:: 614219 Location Accuracy:: Elev. Reliability Note:: Total Depth m:: 5.8 Township:: Lot:: Completion Date:: FEB-1965 Primary Water Use:: Not Used </div> <div> Type: Borehole Status:: UTM Zone:: 17 Northing:: 4822273 Orig. Ground Elev m:: 25.1 DEM Ground Elev m:: 79.5 Primary Name:: Concession:: Municipality: Static Water Level:: .6 Sec. Water Use:: </div> </div>					
--Details--					
<div> Stratum ID: 218513984 Bottom Depth(m): 1.1 </div> <div> Top Depth(m): 0.0 Stratum Desc: SOIL. </div>					
<div> Stratum ID: 218513985 Bottom Depth(m): 3.1 </div> <div> Top Depth(m): 1.1 Stratum Desc: CLAY,SILT. BROWN,ALLUVIAL,FIRM, AGE POST-GLACIAL, WATER STABLE AT 80.5 FEET. </div>					
<div> Stratum ID: 218513986 Bottom Depth(m): 5.8 </div> <div> Top Depth(m): 3.1 Stratum Desc: TILL,CLAY. GREY,GLACIAL,HARD,AGE GLACIAL.000350100010107200001 </div>					
4	1 of 1	-/0.0	79.2	ON	WWIS
<div> <div> Well ID: 7217001 Construction Date:: Primary Water Use:: Sec. Water Use:: Final Well Status:: Specific Capacity:: Municipality: MISSISSAUGA CITY (PORT CREDIT) County: PEEL </div> <div> Lot: Concession: Concession Name: Easting NAD83:: Northing NAD83:: Zone:: UTM Reliability:: </div> </div>					
Bore Hole Information --					
<div> Bore Hole ID: 1004715986 DP2BR: Code OB: Code OB Description: Open Hole: Date Completed: 08-OCT-13 Remarks: Zone: 17 East 83: 614182 North 83: 4822433 UTMRC: 4 UTMRC Description: margin of error : 30 m - 100 m Location Method: wwr Org CS: UTM83 Elevation: Elevrc: Elevrc Description: Location Source Date: </div>					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<div>Source Revision Comment:</div> <div>Improvement Location Source:</div> <div>Improvement Location Method:</div> <div>Supplier Comment:</div> <div>Spatial Status:</div> <div>--</div> <div>--</div>					
<u>5</u>	1 of 1	-/0.0	79.8	ON	BORE
<div>Borehole ID: 640870</div> <div>Use: Geotechnical/Geological Investigation</div> <div>Drill Method:: Power auger</div> <div>Easting:: 614045</div> <div>Location Accuracy::</div> <div>Elev. Reliability Note::</div> <div>Total Depth m:: 2.7</div> <div>Township::</div> <div>Lot::</div> <div>Completion Date:: JAN-1965</div> <div>Primary Water Use:: Not Used</div>		<div>Type: Borehole</div> <div>Status::</div> <div>UTM Zone:: 17</div> <div>Northing:: 4822523</div> <div>Orig. Ground Elev m:: 83.1</div> <div>DEM Ground Elev m:: 79.9</div> <div>Primary Name::</div> <div>Concession::</div> <div>Municipality:</div> <div>Static Water Level:: -999.9</div> <div>Sec. Water Use::</div>			
<div>--Details--</div> <div><div>Stratum ID: 218493863</div><div>Bottom Depth(m): 0.0</div><div>Stratum ID: 218493864</div><div>Bottom Depth(m): 0.2</div><div>Stratum ID: 218493865</div><div>Bottom Depth(m): 0.3</div><div>Stratum ID: 218493866</div><div>Bottom Depth(m): 2.1</div><div>Stratum ID: 218493867</div><div>Bottom Depth(m): 2.7</div></div> <div><div>Top Depth(m): 0.0</div><div>Stratum Desc: ASPHALT.</div><div>Top Depth(m): 0.0</div><div>Stratum Desc: FILL, GRAVEL.</div><div>Top Depth(m): 0.2</div><div>Stratum Desc: SAND-MEDIUM, SILT, CLAY. BROWN, ALLUVIAL, AGE POST-GLACIAL.</div><div>Top Depth(m): 0.3</div><div>Stratum Desc: SAND-MEDIUM, SILT, CLAY. BROWN, ALLUVIAL, MOIST, AGE POST-GLACIAL.</div><div>Top Depth(m): 2.1</div><div>Stratum Desc: SAND-MEDIUM, CLAY, SILT. GREY, ALLUVIAL, WET, AGE POST-GLACIAL.</div></div>					
<u>6</u>	1 of 2	-/0.0	79.8	PPM CANADA INC. REFINERY TEXACO CANADA "PORT CREDIT" MISSISSAUGA CITY ON	CA
<div>Certificate #: 8-3106-87-87</div> <div>Application Year: 9/25/1987</div> <div>Issue Date: Industrial air</div> <div>Approval Type: Approved</div> <div>Status:</div> <div>Application Type:</div> <div>Client Name::</div> <div>Client Address::</div> <div>Client City::</div> <div>Client Postal Code::</div> <div>Project Description:: MOBILE PCB DESTRUCTION UNIT</div> <div>Contaminants:: Other Organic Compounds, Polychlorinated Biphenyls</div> <div>Emission Control:: Act. Charcoal Filter</div>					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
6	2 of 2	-/0.0	79.8	TRANS-NORTHERN PIPELINES INC. COMPANY YARD AT CORNER OF OLD TEXACO REFINERY IN PORT CREDIT. PIPELINE MISSISSAUGA CITY ON	SPL
Ref No: Contaminant Code: Contaminant Name: Contaminant Quantity: Incident Cause: Incident Dt: Incident Reason: Incident Summary: MOE Reported Dt: Environmental Impact: Nature of Impact: Receiving Medium: SAC Action Class: Sector Source Type: Receiving Environment: Incident Event: Site Municipality:		9102 COOLING SYSTEM LEAK 9/10/1988 EQUIPMENT FAILURE TRANSNORTHERN PIPELINE - 25 L PCB-CONTAMINATED OIL(86 PPM) TO GROUND. 9/10/1988 LAND 21102			
33	1 of 25	NNW/38.1	80.4	SANIVAN GROUP (PORT CREDIT) 10 MISSISSAUGA RD. S. MISSISSAUGA CITY ON L5H 4M6	CA
Certificate #: Application Year: Issue Date: Approval Type: Status: Application Type: Client Name:: Client Address:: Client City:: Client Postal Code:: Project Description:: Contaminants:: Emission Control::		8-3215-89- 89 8/1/1989 Industrial air Cancelled DUPL. OF 8-3177-89			
33	2 of 25	NNW/38.1	80.4	SANIVAN GROUP (PORT CREDIT)NOTICE SENT 10 MISSISSAUGA RD. SOUTH MISSISSAUGA CITY ON L5H 4M6	CA
Certificate #: Application Year: Issue Date: Approval Type: Status: Application Type: Client Name:: Client Address:: Client City:: Client Postal Code:: Project Description:: Contaminants:: Emission Control::		8-3177-89- 89 10/30/1989 Industrial air Approved BIOCHEM. REMOVAL OF HC IN WATER Benzene (Carcinogen Requires Bact), Toluene(Pentyl Methane)(Methyl Benzene), Xylene Act. Charcoal Filter			

46 erisinfo.com | Environmental Risk Information Services Order No: 20170329097

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
SIC Code: 3611 SIC Description: REFINED PETRO. PROD.					
--Details--					
Waste Code: 221 Waste Description: LIGHT FUELS					
Waste Code: 243 Waste Description: PCB'S					
Waste Code: 251 Waste Description: OIL SKIMMINGS & SLUDGES					
33	7 of 25	NNW/38.1	80.4	Imperial Oil 10 Mississauga Road South Mississauga ON	GEN
PO Box Num: Status: Country: Generator #: ON8548931 Approval Yrs.: 03,04 SIC Code: 412110 SIC Description: Petroleum Product Whl.					
33	8 of 25	NNW/38.1	80.4	Imperial Oil Limited 10 Mississauga Road South Mississauga ON	GEN
PO Box Num: Status: Country: Generator #: ON7017570 Approval Yrs.: 2010 SIC Code: 412110 SIC Description: Petroleum Product Wholesaler-Distributors					
--Details--					
Waste Code: 252 Waste Description: WASTE OILS & LUBRICANTS					
Waste Code: 221 Waste Description: LIGHT FUELS					
Waste Code: 251 Waste Description: OIL SKIMMINGS & SLUDGES					
33	9 of 25	NNW/38.1	80.4	Imperial Oil Limited 10 Mississauga Road South Mississauga ON	GEN
PO Box Num: Status: Country: Generator #: ON7017570 Approval Yrs.: 2011 SIC Code: 412110 SIC Description: Petroleum Product Wholesaler-Distributors					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
--Details--					
Waste Code:		221			
Waste Description:		LIGHT FUELS			
Waste Code:		252			
Waste Description:		WASTE OILS & LUBRICANTS			
Waste Code:		251			
Waste Description:		OIL SKIMMINGS & SLUDGES			
33	10 of 25	NNW/38.1	80.4	ESSO PETROLUEM CANADA 10 MISSISSAUGA ROAD S. MISSISSAUGA ON L5H 4M6	37-035 GEN
PO Box Num: Status: Country: Generator #: ON1315723 Approval Yrs:: 92,93,94,95,96,97,98 SIC Code: 3611 SIC Description: REFINED PETRO. PROD.					
--Details--					
Waste Code:		241			
Waste Description:		HALOGENATED SOLVENTS			
Waste Code:		243			
Waste Description:		PCB'S			
Waste Code:		251			
Waste Description:		OIL SKIMMINGS & SLUDGES			
Waste Code:		221			
Waste Description:		LIGHT FUELS			
33	11 of 25	NNW/38.1	80.4	TEXACO CANADA INC REFINERY 10 MISSISSAUGA ROAD SOUTH MISSISSAUGA ON L5H 4M6	GEN
PO Box Num: Status: Country: Generator #: ON0005201 Approval Yrs:: 86,87,88,89 SIC Code: 3611 SIC Description: REFINED PETRO. PROD.					
--Details--					
Waste Code:		221			
Waste Description:		LIGHT FUELS			
Waste Code:		251			
Waste Description:		OIL SKIMMINGS & SLUDGES			
33	12 of 25	NNW/38.1	80.4	Imperial Oil Limited 10 Mississauga Road South	GEN

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<hr/>					
				Mississauga ON	
<hr/>					
PO Box Num: Status: Country: Generator #: ON7017570 Approval Yrs:: 2009 SIC Code: 412110 SIC Description: Petroleum Product Wholesaler-Distributors					
<hr/>					
--Details-- Waste Code: 221 Waste Description: LIGHT FUELS Waste Code: 251 Waste Description: OIL SKIMMINGS & SLUDGES					
<hr/>					
33	13 of 25	NNW/38.1	80.4	Imperial Oil 10 Mississauga Road South Mississauga ON L5H 1E3	GEN
<hr/>					
PO Box Num: Status: Registered Country: Canada Generator #: ON7017570 Approval Yrs:: As of Sep 2016 SIC Code: SIC Description:					
<hr/>					
--Details-- Waste Code: 252 L Waste Description: Waste crankcase oils and lubricants Waste Code: 221 L Waste Description: Light fuels Waste Code: 221 I Waste Description: Light fuels Waste Code: 251 L Waste Description: Waste oils/sludges (petroleum based)					
<hr/>					
33	14 of 25	NNW/38.1	80.4	Imperial Oil 10 Mississauga Road South Mississauga ON L5H 2H1	GEN
<hr/>					
PO Box Num: Status: Country: Generator #: ON7017570 Approval Yrs:: As of May 2015 SIC Code: SIC Description:					
<hr/>					
--Details-- Waste Code: 221 Waste Description: Light fuels Waste Code: 252					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Waste Description:		Waste crankcase oils and lubricants			
Waste Code:		251			
Waste Description:		Waste oils/sludges (petroleum based)			
33	15 of 25	NNW/38.1	80.4	TEXACO (SEE & USE ON1315723) 37-035 REFINERY 10 MISSISSAUGA ROAD SOUTH MISSISSAUGA ON L5H 4M6	GEN
PO Box Num:					
Status:					
Country:					
Generator #:		ON0005201			
Approval Yrs.:		92,93,94,95,96,97			
SIC Code:		3611			
SIC Description:		REFINED PETRO. PROD.			
--Details--					
Waste Code:		243			
Waste Description:		PCB'S			
33	16 of 25	NNW/38.1	80.4	Imperial Oil 10 Mississauga Road South Mississauga ON	GEN
PO Box Num:					
Status:					
Country:					
Generator #:		ON7017570			
Approval Yrs.:		2013			
SIC Code:		412110			
SIC Description:		PETROLEUM PRODUCT WHOLESALER-DISTRIBUTORS			
--Details--					
Waste Code:		252			
Waste Description:		WASTE OILS & LUBRICANTS			
Waste Code:		221			
Waste Description:		LIGHT FUELS			
Waste Code:		251			
Waste Description:		OIL SKIMMINGS & SLUDGES			
33	17 of 25	NNW/38.1	80.4	ESSO PETROLUEM CANADA 10 MISSISSAUGA ROAD SOUTH MISSISSAUGA ON L5G 4M6	GEN
PO Box Num:					
Status:					
Country:					
Generator #:		ON1315723			
Approval Yrs.:		99,00,01			
SIC Code:		3611			
SIC Description:		REFINED PETRO. PROD.			
--Details--					
Waste Code:		221			
Waste Description:		LIGHT FUELS			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Waste Code: 241 Waste Description: HALOGENATED SOLVENTS Waste Code: 243 Waste Description: PCB'S Waste Code: 251 Waste Description: OIL SKIMMINGS & SLUDGES					
33	18 of 25	NNW/38.1	80.4	Imperial Oil Limited 10 Mississauga Road South Mississauga ON L5H 2H1	GEN
PO Box Num: Status: Country: Generator #: ON7017570 Approval Yrs.: 2012 SIC Code: 412110 SIC Description: Petroleum Product Wholesaler-Distributors --Details-- Waste Code: 221 Waste Description: LIGHT FUELS Waste Code: 252 Waste Description: WASTE OILS & LUBRICANTS Waste Code: 251 Waste Description: OIL SKIMMINGS & SLUDGES					
33	19 of 25	NNW/38.1	80.4	Imperial Oil Limited (c/o Zia Hasan) 10 Mississauga Road South Mississauga ON L5H 2H1	GEN
PO Box Num: Status: Country: Generator #: ON7017570 Approval Yrs.: 07,08 SIC Code: 412110 SIC Description: Petroleum Product Wholesaler-Distributors --Details-- Waste Code: 221 Waste Description: LIGHT FUELS Waste Code: 251 Waste Description: OIL SKIMMINGS & SLUDGES					
33	20 of 25	NNW/38.1	80.4	ESSO PETROLEUM CANADA 10 MISSISSAUGA ROAD S. STORAGE SITE; 250 LAKESHORE ROAD MISSISSAUGA ON L5H 4M6	NPCB
Company Code: O0560 Industry: Petroleum					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Site Status: Transaction Date: 8/11/1992 Inspection Date: 9/1/1992					
33	21 of 25	NNW/38.1	80.4	ESSO PETROLEUM CANADA 10 MISSISSAUGA ROAD SOUTH MISSISSAUGA ON L5G 1G9	NPCB
Company Code: F0996 Industry: UNDEFINED Site Status: Transaction Date: Inspection Date:					
33	22 of 25	NNW/38.1	80.4	ESSO PETROLEUM CANADA 10 MISSISSAUGA ROAD SOUTH MISSISSAUGA ON L5G 1G9	NPCB
Company Code: O0560 Industry: PETROLEUM Site Status: NO MORE PCB'S ON THIS SITE Transaction Date: 11/8/1992 Inspection Date: 9/1/1992					
33	23 of 25	NNW/38.1	80.4	ESSO PETROLEUM CANADA 10 Mississauga ROAD SOUTH MISSISSAUGA ON L5H 4M6	OPCB
Year: 1998 Site Number: 30286A006 Name Owner: Additional Site Information:					
--Details--					
Quantity: 3.00					
Address Site:					
Description: Number of Drums of Ballasts with High Level PCBs (>1000 ppm)					
Quantity: 600.00					
Address Site:					
Description: Calculated Weight (Kg) of Drums of Ballasts with High Level PCBs (>1000 ppm)					
Quantity: 49.00					
Address Site:					
Description: Number of Capacitors with High Level PCBs (>1000 ppm)					
Quantity: 3.00					
Address Site:					
Description: Number of Drums of Other Material with Low Level PCBs (< 1000 ppm) kg					
Quantity: 450.00					
Address Site:					
Description: Calculated Weight of Drums of Other Material with Low Level PCBs (< 1000 ppm) kg					
33	24 of 25	NNW/38.1	80.4	ESSO PETROLEUM CANADA 10 Mississauga ROAD SOUTH MISSISSAUGA ON L5H 4M6	OPCB

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<div>Year:2000</div> <div>Site Number:30286A006</div> <div>Name Owner:</div> <div>Additional Site Information:</div>					
<div>--Details--</div> <div>Quantity:3.00</div> <div>Address Site:</div> <div>Description:Number of Drums of Ballasts with High Level PCBs (>1000 ppm)</div> <div>Quantity:600.00</div> <div>Address Site:</div> <div>Description:Calculated Weight (Kg) of Drums of Ballasts with High Level PCBs (>1000 ppm)</div> <div>Quantity:49.00</div> <div>Address Site:</div> <div>Description:Number of Capacitors with High Level PCBs (>1000 ppm)</div> <div>Quantity:3.00</div> <div>Address Site:</div> <div>Description:Number of Drums of Other Material with Low Level PCBs (< 1000 ppm) kg</div> <div>Quantity:450.00</div> <div>Address Site:</div> <div>Description:Calculated Weight of Drums of Other Material with Low Level PCBs (< 1000 ppm) kg</div>					
33	25 of 25	NNW/38.1	80.4	ESSO PETROLEUM CANADA 10 Mississauga ROAD SOUTH MISSISSAUGA ON L5H 4M6	OPCB
<div>Year:1999</div> <div>Site Number:30286A006</div> <div>Name Owner:</div> <div>Additional Site Information:</div>					
<div>--Details--</div> <div>Quantity:3.00</div> <div>Address Site:</div> <div>Description:Number of Drums of Ballasts with High Level PCBs (>1000 ppm)</div> <div>Quantity:600.00</div> <div>Address Site:</div> <div>Description:Calculated Weight (Kg) of Drums of Ballasts with High Level PCBs (>1000 ppm)</div> <div>Quantity:49.00</div> <div>Address Site:</div> <div>Description:Number of Capacitors with High Level PCBs (>1000 ppm)</div> <div>Quantity:3.00</div> <div>Address Site:</div> <div>Description:Number of Drums of Other Material with Low Level PCBs (< 1000 ppm) kg</div> <div>Quantity:450.00</div> <div>Address Site:</div> <div>Description:Calculated Weight of Drums of Other Material with Low Level PCBs (< 1000 ppm) kg</div>					
7	1 of 1	NNE/5.2	79.8	ON	BORE
<div>Borehole ID:640713</div> <div>Type:Borehole</div>					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<hr/>					
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Power auger			UTM Zone::	17
Easting::	614140			Northing::	4822483
Location Accuracy::				Orig. Ground Elev m::	78.5
Elev. Reliability Note::				DEM Ground Elev m::	78.4
Total Depth m::	1.2			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	AUG-1965			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
--Details--					
Stratum ID:	218493276			Top Depth(m):	0.0
Bottom Depth(m):	0.2			Stratum Desc:	ASPHALT.
Stratum ID:	218493277			Top Depth(m):	0.2
Bottom Depth(m):	0.3			Stratum Desc:	FILL, GRAVEL.
Stratum ID:	218493278			Top Depth(m):	0.3
Bottom Depth(m):	0.4			Stratum Desc:	CLAY, SAND, SILT. ALLUVIAL, AGE POST-GLACIAL.
Stratum ID:	218493279			Top Depth(m):	0.4
Bottom Depth(m):	1.2			Stratum Desc:	SAND, CLAY, SILT. ALLUVIAL, AGE POST-GLACIAL.
<hr/>					
8	1 of 1	NE/5.9	78.9	ON	BORE
Borehole ID:	640712			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Power auger			UTM Zone::	17
Easting::	614195			Northing::	4822443
Location Accuracy::				Orig. Ground Elev m::	77.8
Elev. Reliability Note::				DEM Ground Elev m::	77.9
Total Depth m::	1.2			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	AUG-1965			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
--Details--					
Stratum ID:	218493273			Top Depth(m):	0.0
Bottom Depth(m):	0.2			Stratum Desc:	ASPHALT.
Stratum ID:	218493274			Top Depth(m):	0.2
Bottom Depth(m):	0.4			Stratum Desc:	SAND-MEDIUM, SILT, CLAY. ALLUVIAL, AGE POST-GLACIAL.
Stratum ID:	218493275			Top Depth(m):	0.4
Bottom Depth(m):	1.2			Stratum Desc:	SAND, CLAY, SILT. GREY, ALLUVIAL, AGE POST-GLACIAL.
<hr/>					
9	1 of 1	N/7.1	79.8	ON	BORE
Borehole ID:	640771			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Power auger			UTM Zone::	17
Easting::	613995			Northing::	4822593
Location Accuracy::				Orig. Ground Elev m::	81.1

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
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Elev. Reliability Note::				DEM Ground Elev m::	80.7
Total Depth m::	1.2			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	AUG-1965			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
 --Details--					
Stratum ID:	218493491			Top Depth(m):	0.0
Bottom Depth(m):	0.2			Stratum Desc:	ASPHALT.
Stratum ID:	218493492			Top Depth(m):	0.2
Bottom Depth(m):	0.4			Stratum Desc:	SAND-MEDIUM TO COARSE,SILT,CLAY. ALLUVIAL,AGE POST-GLACIAL.
Stratum ID:	218493493			Top Depth(m):	0.4
Bottom Depth(m):	0.6			Stratum Desc:	SAND-MEDIUM TO COARSE,GRAVEL,SILT, CLAY. FLUVIO-GLACIAL,AGE GLACIAL.
Stratum ID:	218493494			Top Depth(m):	0.6
Bottom Depth(m):	1.2			Stratum Desc:	TILL,SAND,CLAY,SILT.GREY,GLACIAL,AGE GLACIAL.
<hr/>					
<u>10</u>	1 of 1	NNE/10.6	79.8	ON	BORE
Borehole ID:	640714			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Power auger			UTM Zone::	17
Easting::	614095			Northing::	4822523
Location Accuracy::				Orig. Ground Elev m::	79.2
Elev. Reliability Note::				DEM Ground Elev m::	79.5
Total Depth m::	1.2			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	AUG-1965			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
 --Details--					
Stratum ID:	218493280			Top Depth(m):	0.0
Bottom Depth(m):	0.2			Stratum Desc:	ASPHALT.
Stratum ID:	218493281			Top Depth(m):	0.2
Bottom Depth(m):	0.4			Stratum Desc:	SAND-MEDIUM,SILT, CLAY. BROWN,ALLUVIAL, AGE POST-GLACIAL.
Stratum ID:	218493282			Top Depth(m):	0.4
Bottom Depth(m):	1.2			Stratum Desc:	SAND-MEDIUM TO COARSE,SILT,CLAY. ALLUVIAL,AGE POST-GLACIAL.
<hr/>					
<u>11</u>	1 of 10	NNW/11.8	79.9	Imperial Oil Limited 181 Lakeshore Rd W Mississauga ON L5H 1G5	CA
Certificate #:	8950-7MSJYW				
Application Year:	2009				
Issue Date:	1/7/2009				
Approval Type:	Industrial Sewage Works				
Status:	Approved				
Application Type:					
Client Name::					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Client Address:: Client City:: Client Postal Code:: Project Description:: Contaminants:: Emission Control::					
11	2 of 10	NNW/11.8	79.9	181 Lakeshore Rd W Mississauga ON L5H1G5	EHS
Postal Code: City: Address2: Address1: Provstate: Order No.: Addit. Info Ordered:: Report Date: Report Type: Search Radius (km):		L5H1G5 Mississauga 181 Lakeshore Rd W ON 20150429114 City Directory 06-MAY-15 Standard Report .25			
11	3 of 10	NNW/11.8	79.9	765853 ONTARIO LIMITED O/A PORT CREDIT ESSO 181 LAKESHORE RD W MISSISSAUGA ON L5H 1G5	FST
Instance No: Cont Name: Instance Type: Fuel Type: Status: Capacity: Tank Material: Corrosion Protection: Tank Type: Install Year: Parent Facility Type: Facility Type:		11484280 FS Liquid Fuel Tank Gasoline Active 45460 Fiberglass (FRP) Fiberglass Double Wall UST 1996 FS Gasoline Station - Self Serve FS Liquid Fuel Tank			
11	4 of 10	NNW/11.8	79.9	765853 ONTARIO LIMITED O/A PORT CREDIT ESSO 181 LAKESHORE RD W MISSISSAUGA ON L5H 1G5	FST
Instance No: Cont Name: Instance Type: Fuel Type: Status: Capacity: Tank Material: Corrosion Protection: Tank Type: Install Year: Parent Facility Type: Facility Type:		64494271 FS Liquid Fuel Tank Diesel Active 25000 Fiberglass (FRP) Fiberglass Double Wall UST 2010 FS Gasoline Station - Self Serve FS Liquid Fuel Tank			
11	5 of 10	NNW/11.8	79.9	765853 ONTARIO LIMITED O/A PORT CREDIT ESSO	FST

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<hr/>					
				181 LAKESHORE RD W MISSISSAUGA ON L5H 1G5	
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Instance No:	11484252				
Cont Name:					
Instance Type:	FS Liquid Fuel Tank				
Fuel Type:	Gasoline				
Status:	Active				
Capacity:	45460				
Tank Material:	Fiberglass (FRP)				
Corrosion Protection:	Fiberglass				
Tank Type:	Double Wall UST				
Install Year:	1996				
Parent Facility Type:	FS Gasoline Station - Self Serve				
Facility Type:	FS Liquid Fuel Tank				
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11	6 of 10	NNW/11.8	79.9	765853 ONTARIO LIMITED O/A PORT CREDIT ESSO 181 LAKESHORE RD W MISSISSAUGA ON L5H 1G5	FST
<hr/>					
Instance No:	11484275				
Cont Name:					
Instance Type:	FS Liquid Fuel Tank				
Fuel Type:	Gasoline				
Status:	Active				
Capacity:	45460				
Tank Material:	Fiberglass (FRP)				
Corrosion Protection:	Fiberglass				
Tank Type:	Double Wall UST				
Install Year:	1996				
Parent Facility Type:	FS Gasoline Station - Self Serve				
Facility Type:	FS Liquid Fuel Tank				
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11	7 of 10	NNW/11.8	79.9	765853 ONTARIO LIMITED O/A PORT CREDIT ESSO 181 LAKESHORE RD W MISSISSAUGA ON L5H 1G5	FSTH
<hr/>					
License Issue Date:	9/20/2002				
Tank Status:	Licensed				
Tank Status As Of:	December 2008				
Operation Type:	Retail Fuel Outlet				
Facility Type:	Gasoline Station - Self Serve				
<hr/>					
--Details--					
Status:	Active				
Year of Installation:	1996				
Corrosion Protection:					
Capacity:	45460				
Tank Fuel Type:	Liquid Fuel Double Wall UST - Gasoline				
<hr/>					
Status:	Active				
Year of Installation:	1996				
Corrosion Protection:					
Capacity:	45460				
Tank Fuel Type:	Liquid Fuel Double Wall UST - Gasoline				
<hr/>					
Status:	Active				
Year of Installation:	1996				
Corrosion Protection:					
Capacity:	45460				

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Tank Fuel Type:		Liquid Fuel Double Wall UST - Gasoline			
11	8 of 10	NNW/11.8	79.9	Imperial Oil 181 Lakeshore Road West Mississauga ON L5H 1G5	GEN
PO Box Num:					
Status:					
Country:					
Generator #:		ON7929300			
Approval Yrs.:		2010			
SIC Code:		447190			
SIC Description:		Other Gasoline Stations			
--Details--					
Waste Code:		251			
Waste Description:		OIL SKIMMINGS & SLUDGES			
11	9 of 10	NNW/11.8	79.9	BIGELOW HOLDINGS LTD 181 LAKESHORE RD W MISSISSAUGA ON L5H 1G5	PRT
Location ID:		9136			
Type:		retail			
Expiry Date:		1995-07-31			
Capacity (L):		19974			
Licence #:		0052683001			
11	10 of 10	NNW/11.8	79.9	ESSO PETROLEUM CANADA 181 LAKESHORE ROAD WEST. SERVICE STATION MISSISSAUGA CITY ON L5H 1G5	SPL
Ref No:		156612			
Contaminant Code:					
Contaminant Name:					
Contaminant Quantity:					
Incident Cause:		VALVE/FITTING LEAK OR FAILURE			
Incident Dt:		6/9/1998			
Incident Reason:		EQUIPMENT FAILURE			
Incident Summary:		ESSO-2 L GASOLINE TO LOT,FAILED SWIVEL,CONTAINED, CLEANED-UP.			
MOE Reported Dt:		6/9/1998			
Environmental Impact:		NOT ANTICIPATED			
Nature of Impact:					
Receiving Medium:		LAND			
SAC Action Class:					
Sector Source Type:					
Receiving Environment:					
Incident Event:					
Site Municipality:		21102			
12	1 of 1	N/12.9	79.8	ON	BORE
Borehole ID:		640715		Type:	Borehole
Use:		Geotechnical/Geological Investigation		Status::	
Drill Method::		Power auger		UTM Zone::	17
Easting::		614045		Northing::	4822563

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Location Accuracy:: Elev. Reliability Note:: Total Depth m:: 1.2 Township:: Lot:: Completion Date:: AUG-1965 Primary Water Use:: Not Used				Orig. Ground Elev m:: 80.2 DEM Ground Elev m:: 80 Primary Name:: Concession:: Municipality: Static Water Level:: -999.9 Sec. Water Use::	
--Details--					
Stratum ID:	218493283			Top Depth(m):	0.0
Bottom Depth(m):	0.2			Stratum Desc:	ASPHALT.
Stratum ID:	218493284			Top Depth(m):	0.2
Bottom Depth(m):	0.4			Stratum Desc:	SAND-MEDIUM TO COARSE,SILT,CLAY. BROWN,ALLUVIAL, AGE POST-GLACIAL.
Stratum ID:	218493285			Top Depth(m):	0.4
Bottom Depth(m):	0.5			Stratum Desc:	SAND-MEDIUM,SILT, CLAY. BROWN,ALLUVIAL, AGE POST-GLACIAL.
Stratum ID:	218493286			Top Depth(m):	0.5
Bottom Depth(m):	1.2			Stratum Desc:	SAND-MEDIUM TO COARSE,SILT,CLAY. BROWN,ALLUVIAL, AGE POST-GLACIAL.
13	1 of 2	W/20.8	83.8	R.M. OF PEEL BENSON AVE/LAKESHORE RD. MISSISSAUGA CITY ON	CA
Certificate #: Application Year: Issue Date: Approval Type: Status: Application Type: Client Name:: Client Address:: Client City:: Client Postal Code:: Project Description:: Contaminants:: Emission Control::		3-0559-97-97 6/2/1997 Municipal sewage Approved			
13	2 of 2	W/20.8	83.8	R.M. OF PEEL BENSON AVE/LAKESHORE RD. MISSISSAUGA CITY ON	CA
Certificate #: Application Year: Issue Date: Approval Type: Status: Application Type: Client Name:: Client Address:: Client City:: Client Postal Code:: Project Description:: Contaminants:: Emission Control::		7-0427-97-97 6/3/1997 Municipal water Approved			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
14	1 of 1	NE/21.7	77.8	ON	BORE
Borehole ID: 640699		Type: Borehole			
Use: Geotechnical/Geological Investigation		Status::			
Drill Method:: Power auger		UTM Zone:: 17			
Easting:: 614235		Northing:: 4822433			
Location Accuracy::		Orig. Ground Elev m:: 77.4			
Elev. Reliability Note::		DEM Ground Elev m:: 77.4			
Total Depth m:: 1.8		Primary Name::			
Township::		Concession::			
Lot::		Municipality:			
Completion Date:: AUG-1965		Static Water Level:: -999.9			
Primary Water Use:: Not Used		Sec. Water Use::			
--Details--					
Stratum ID: 218493215		Top Depth(m): 0.0			
Bottom Depth(m): 0.0		Stratum Desc: ASPHALT.			
Stratum ID: 218493216		Top Depth(m): 0.0			
Bottom Depth(m): 0.2		Stratum Desc: FILL, GRAVEL.			
Stratum ID: 218493217		Top Depth(m): 0.2			
Bottom Depth(m): 1.5		Stratum Desc: FILL, ORGANIC, SAND, SILT. BROWN.			
Stratum ID: 218493218		Top Depth(m): 1.5			
Bottom Depth(m): 1.8		Stratum Desc: CLAY, SAND, SILT. GREY, ALLUVIAL, AGE POST-GLACIAL. AGE POST			
15	1 of 1	NW/21.9	80.5	ON	BORE
Borehole ID: 647790		Type: Borehole			
Use: Geotechnical/Geological Investigation		Status::			
Drill Method:: Hand auger		UTM Zone:: 17			
Easting:: 613815		Northing:: 4822503			
Location Accuracy::		Orig. Ground Elev m:: 81.1			
Elev. Reliability Note::		DEM Ground Elev m:: 80.1			
Total Depth m:: 1.2		Primary Name::			
Township::		Concession::			
Lot::		Municipality:			
Completion Date:: AUG-1965		Static Water Level:: -999.9			
Primary Water Use:: Not Used		Sec. Water Use::			
--Details--					
Stratum ID: 218520377		Top Depth(m): 0.0			
Bottom Depth(m): 0.2		Stratum Desc: ASPHALT.			
Stratum ID: 218520378		Top Depth(m): 0.2			
Bottom Depth(m): 1.2		Stratum Desc: SAND-MEDIUM, SILT, CLAY. BROWN, GLACIAL, AGE GLACIAL.			
16	1 of 1	NNW/22.1	80.8	ON	BORE
Borehole ID: 647789		Type: Borehole			
Use: Geotechnical/Geological Investigation		Status::			
Drill Method:: Hand auger		UTM Zone:: 17			
Easting:: 613865		Northing:: 4822573			
Location Accuracy::		Orig. Ground Elev m:: 81.2			
Elev. Reliability Note::		DEM Ground Elev m:: 81.5			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<hr/>					
Total Depth m::	.9			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	AUG-1965			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
 --Details--					
Stratum ID:	218520375			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	ASPHALT.
Stratum ID:	218520376			Top Depth(m):	0.1
Bottom Depth(m):	0.9			Stratum Desc:	FILL.
<hr/>					
17	1 of 1	WNW/24.5	81.8	ON	BORE
Borehole ID:	637833			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Hand auger			UTM Zone::	17
Easting::	613735			Northing::	4822403
Location Accuracy::				Orig. Ground Elev m::	82.4
Elev. Reliability Note::				DEM Ground Elev m::	83
Total Depth m::	1.7			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	AUG-1965			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
 --Details--					
Stratum ID:	218481900			Top Depth(m):	0.0
Bottom Depth(m):	0.3			Stratum Desc:	ASPHALT.
Stratum ID:	218481901			Top Depth(m):	0.3
Bottom Depth(m):	0.5			Stratum Desc:	SAND-MEDIUM,SILT, CLAY. BROWN,GLACIAL,AGE GLACIAL.
Stratum ID:	218481902			Top Depth(m):	0.5
Bottom Depth(m):	1.7			Stratum Desc:	SAND(67)-MEDIUM TO COARSE,SILT(21),CLAY(7),GRAVEL. BROWN,GLACIAL,AGE GLACIAL. LT,S
<hr/>					
18	1 of 1	NNW/25.4	80.8	Petro-Canada 200 Lakeshore Road West Mississauga ON L5H 1G6	GEN
PO Box Num:					
Status:					
Country:					
Generator #:	ON1631901				
Approval Yrs::	02,03,04				
SIC Code:					
SIC Description:					
 --Details--					
Waste Code:	221				
Waste Description:	LIGHT FUELS				

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
19	1 of 1	NW/26.2	80.6	ON	BORE
Borehole ID: 647791					
Use: Geotechnical/Geological Investigation					
Drill Method:: Hand auger					
Easting:: 613775					
Location Accuracy::					
Elev. Reliability Note::					
Total Depth m:: 1.5					
Township::					
Lot::					
Completion Date:: AUG-1965					
Primary Water Use:: Not Used					
Type: Borehole					
Status::					
UTM Zone:: 17					
Northing:: 4822458					
Orig. Ground Elev m:: 81.8					
DEM Ground Elev m:: 81.2					
Primary Name::					
Concession::					
Municipality:					
Static Water Level:: -999.9					
Sec. Water Use::					
--Details--					
Stratum ID: 218520379					
Bottom Depth(m): 0.3					
Top Depth(m): 0.0					
Stratum Desc: ASPHALT.					
Stratum ID: 218520380					
Bottom Depth(m): 0.5					
Top Depth(m): 0.3					
Stratum Desc: SAND-MEDIUM TO COARSE,SILT,CLAY. BROWN,GLACIAL,AGE GLACIAL.					
Stratum ID: 218520381					
Bottom Depth(m): 1.2					
Top Depth(m): 0.5					
Stratum Desc: SAND-MEDIUM,CLAY. BROWN,GLACIAL,MOIST, AGE GLACIAL.					
Stratum ID: 218520382					
Bottom Depth(m): 1.5					
Top Depth(m): 1.2					
Stratum Desc: CLAY. LACUSTRINE,AGE GLACIAL.					
20	1 of 3	NW/28.2	80.9	ESSO PETROLEUM CANADA 250 LAKESHORE RD.; 10 MISSISSAUGA RD. S. STORAGE SITE; 250 LAKESHORE ROAD MISSISSAUGA ON L5H 2H1	NPCB
Company Code: O0560A					
Industry: Petroleum					
Site Status:					
Transaction Date: 9/3/1992					
Inspection Date: 9/1/1992					
20	2 of 3	NW/28.2	80.9	TEXACO CANADA LTD, PORT CREDIT ON	WDS
Certificate No.: A220108					
Issue Date: 04/22/1980					
Status: Revoked and sent to Cooksville					
Application Status:					
Concession:					
Lot: 9 TO 12 PT. INCLUSIVE RANGE 1, CREDIT INDIAN RESERVE					
Region/County:					
Proponent: TEXACO CANADA LTD, PORT CREDIT					
Address: 250 LAKESHORE ROAD W.					
City: MISSISSAUGA, ONTARIO					
Facility Type:					
District Office:					
Municipalities Served:					
Total Area (ha): 0					
Landfill Capacity (m³): 0					
Landfill Monitoring:					
Landfill Control Type:					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Est. Closure Date:					
Transfer Area (ha):		0			
Transfer Capacity (m³):		0			
Transfer Sites Certificate No.:					
Incinerator Area (ha):		0			
Incinerator Capacity (t):		0			
Processing Area (m³):		0			
Processing Capacity (m³/d):		0			
Processing Volume (m³):		0			
Processing Feed (m³):		0			
Mobile Units:					
Mobile Description:					
Mobile Capacity:		0			
Mobile Unit Certificate No.:					
Waste Type:					
Waste Type Other:		No			
Waste Class:					
Other Approvals/Permits:					
Approval Description:					
Waste Description:					
Site Closing Description:					
PDF URL:					
Record Type:					
Project Type:					

20	3 of 3	NW/28.2	80.9	TEXACO CANADA LTD, PORT CREDIT	WDS
ON					
Certificate No.:		A220107			
Issue Date:		04/17/1980			
Status:		Revoked and sent to Cooksville			
Application Status:					
Concession:					
Lot:		9, 10, 11			
Region/County:					
Proponent:		TEXACO CANADA LTD, PORT CREDIT			
Address:		250 LAKESHORE RD. W.			
City:		MISSISSAUGA			
Facility Type:					
District Office:					
Municipalities Served:					
Total Area (ha):		0			
Landfill Capacity (m³):		0			
Landfill Monitoring:					
Landfill Control Type:					
Est. Closure Date:					
Transfer Area (ha):		0			
Transfer Capacity (m³):		0			
Transfer Sites Certificate No.:					
Incinerator Area (ha):		0			
Incinerator Capacity (t):		0			
Processing Area (m³):		0			
Processing Capacity (m³/d):		0			
Processing Volume (m³):		0			
Processing Feed (m³):		0			
Mobile Units:					
Mobile Description:					
Mobile Capacity:		0			
Mobile Unit Certificate No.:					
Waste Type:					
Waste Type Other:		No			
Waste Class:					
Other Approvals/Permits:					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Approval Description: Waste Description: Site Closing Description: PDF URL: Record Type: Project Type:					
21	1 of 1	NW/28.8	80.9	ON	WWIS
Well ID: 7164351 Construction Date:: Primary Water Use:: Sec. Water Use:: Final Well Status:: Specific Capacity:: Municipality: MISSISSAUGA CITY (PORT CREDIT) County: PEEL Lot: Concession: Concession Name: Easting NAD83:: Northing NAD83:: Zone:: UTM Reliability::					
Bore Hole Information					
--					
Bore Hole ID: 1003521278					
DP2BR:					
Code OB:					
Code OB Description:					
Open Hole:					
Date Completed: 27-MAY-11					
Remarks:					
Zone: 17					
East 83: 613753					
North 83: 4822434					
UTMRC: 3					
UTMRC Description: margin of error : 10 - 30 m					
Location Method: wwr					
Org CS: UTM83					
Elevation:					
Elevrc:					
Elevrc Description:					
Location Source Date:					
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					
--					
--					
22	1 of 1	NNE/29.3	79.8	ON	BORE
Borehole ID: 640705 Use: Geotechnical/Geological Investigation Drill Method:: Power auger Easting:: 614140 Location Accuracy:: Elev. Reliability Note:: Total Depth m:: 1.2 Township:: Lot:: Completion Date:: AUG-1965 Primary Water Use:: Not Used Type: Borehole Status:: UTM Zone:: 17 Northing:: 4822513 Orig. Ground Elev m:: 78.7 DEM Ground Elev m:: 78.9 Primary Name:: Concession:: Municipality: Static Water Level:: -999.9 Sec. Water Use::					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
--Details--					
Stratum ID:	218493246			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	ASPHALT.
Stratum ID:	218493247			Top Depth(m):	0.1
Bottom Depth(m):	0.2			Stratum Desc:	FILL, GRAVEL.
Stratum ID:	218493248			Top Depth(m):	0.2
Bottom Depth(m):	0.4			Stratum Desc:	SAND-MEDIUM TO COARSE, SILT, CLAY. BROWN, ALLUVIAL, AGE POST-GLACIAL.
Stratum ID:	218493249			Top Depth(m):	0.4
Bottom Depth(m):	0.9			Stratum Desc:	SAND-MEDIUM TO COARSE, CLAY, SILT. BROWN, ALLUVIAL, AGE POST-GLACIAL.
Stratum ID:	218493250			Top Depth(m):	0.9
Bottom Depth(m):	1.2			Stratum Desc:	SAND-MEDIUM TO COARSE, SILT, CLAY. ALLUVIAL, AGE POST-GLACIAL. CO
<hr/>					
23	1 of 1	WNW/29.5	81.3	Bentall Kennedy (Canada) LP 220-252 Lakeshore Road West Mississauga ON	GEN
PO Box Num: Status: Country: Generator #: ON7209355 Approval Yrs:: 2011 SIC Code: 531320 SIC Description:					
<hr/>					
24	1 of 1	W/31.0	83.8	ON	BORE
Borehole ID:	647794			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Hand auger			UTM Zone::	17
Easting::	613650			Northing::	4822303
Location Accuracy::				Orig. Ground Elev m::	84.1
Elev. Reliability Note::				DEM Ground Elev m::	84
Total Depth m::	1.5			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	AUG-1965			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
--Details--					
Stratum ID:	218520389			Top Depth(m):	0.0
Bottom Depth(m):	0.3			Stratum Desc:	ASPHALT.
Stratum ID:	218520390			Top Depth(m):	0.3
Bottom Depth(m):	0.4			Stratum Desc:	CLAY. GREY, LACUSTRINE, AGE GLACIAL.
Stratum ID:	218520391			Top Depth(m):	0.4
Bottom Depth(m):	0.7			Stratum Desc:	SAND-MEDIUM, SILT, CLAY. BROWN, GLACIAL, AGE GLACIAL.
Stratum ID:	218520392			Top Depth(m):	0.7
Bottom Depth(m):	1.5			Stratum Desc:	CLAY. LACUSTRINE, MOIST, AGE GLACIAL.

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
25	1 of 1	WNW/31.0	82.8	272 Lakeshore Road West Mississauga ON	EHS
Postal Code: City: Address2: Address1: Provstate: Order No.: 20101215007 Addit. Info Ordered:: Fire Insur. Maps and/or Site Plans; City Directory Report Date: 12/23/2010 Report Type: Standard Report Search Radius (km): 0.25					
26	1 of 1	N/31.2	79.8	15 Mississauga Rd S Mississauga On Mississauga ON L5H2H1	EHS
Postal Code: City: Address2: Address1: Provstate: Order No.: 20131212007 Addit. Info Ordered:: Report Date: 18-DEC-13 Report Type: Custom Report Search Radius (km): .25					
27	1 of 1	WNW/31.3	83.2	ON	BORE
Borehole ID: 647793 Use: Geotechnical/Geological Investigation Drill Method:: Hand auger Easting:: 613665 Location Accuracy:: Elev. Reliability Note:: Total Depth m:: 1.8 Township:: Lot:: Completion Date:: AUG-1965 Primary Water Use:: Not Used Type: Borehole Status:: UTM Zone:: 17 Northing:: 4822323 Orig. Ground Elev m:: 84 DEM Ground Elev m:: 83.9 Primary Name:: Concession:: Municipality: Static Water Level:: -999.9 Sec. Water Use::					
--Details--					
Stratum ID:		218520385	Top Depth(m): 0.0		
Bottom Depth(m):		0.3	Stratum Desc: ASPHALT.		
Stratum ID:		218520386	Top Depth(m): 0.3		
Bottom Depth(m):		0.5	Stratum Desc: SAND-MEDIUM,SILT, CLAY. BROWN,GLACIAL,AGE GLACIAL.		
Stratum ID:		218520387	Top Depth(m): 0.5		
Bottom Depth(m):		1.5	Stratum Desc: SAND-MEDIUM. BROWN,FLUVIO- GLACIAL,MOIST, AGE GLACIAL.		
Stratum ID:		218520388	Top Depth(m): 1.5		
Bottom Depth(m):		1.8	Stratum Desc: CLAY. BROWN,LACUSTRINE,DRY, AGE GLACIAL.		

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
28	1 of 1	N/31.9	79.8	ON	BORE
Borehole ID: 640711		Type: Borehole			
Use: Geotechnical/Geological Investigation		Status::			
Drill Method:: Power auger		UTM Zone:: 17			
Easting:: 614050		Northing:: 4822583			
Location Accuracy::		Orig. Ground Elev m:: 80.5			
Elev. Reliability Note::		DEM Ground Elev m:: 80.2			
Total Depth m:: .9		Primary Name::			
Township::		Concession::			
Lot::		Municipality:			
Completion Date:: AUG-1965		Static Water Level:: -999.9			
Primary Water Use:: Not Used		Sec. Water Use::			
--Details--					
Stratum ID: 218493270		Top Depth(m): 0.0			
Bottom Depth(m): 0.0		Stratum Desc: ASPHALT.			
Stratum ID: 218493271		Top Depth(m): 0.0			
Bottom Depth(m): 0.3		Stratum Desc: FILL,GRAVEL.			
Stratum ID: 218493272		Top Depth(m): 0.3			
Bottom Depth(m): 0.9		Stratum Desc: SAND-MEDIUM TO COARSE,SILT,CLAY. GREY,ALLUVIAL, AGE POST-GLACIAL. O COA			
29	1 of 1	WNW/31.9	82.8	ON	BORE
Borehole ID: 647792		Type: Borehole			
Use: Geotechnical/Geological Investigation		Status::			
Drill Method:: Hand auger		UTM Zone:: 17			
Easting:: 613695		Northing:: 4822363			
Location Accuracy::		Orig. Ground Elev m:: 83.5			
Elev. Reliability Note::		DEM Ground Elev m:: 83.5			
Total Depth m:: 1.2		Primary Name::			
Township::		Concession::			
Lot::		Municipality:			
Completion Date:: AUG-1965		Static Water Level:: -999.9			
Primary Water Use:: Not Used		Sec. Water Use::			
--Details--					
Stratum ID: 218520383		Top Depth(m): 0.0			
Bottom Depth(m): 0.5		Stratum Desc: ASPHALT.			
Stratum ID: 218520384		Top Depth(m): 0.5			
Bottom Depth(m): 1.2		Stratum Desc: CLAY. BROWN,LACUSTRINE,MOIST, AGE GLACIAL. AGE			
30	1 of 1	W/32.6	83.8	ON	BORE
Borehole ID: 647795		Type: Borehole			
Use: Geotechnical/Geological Investigation		Status::			
Drill Method:: Hand auger		UTM Zone:: 17			
Easting:: 613625		Northing:: 4822273			
Location Accuracy::		Orig. Ground Elev m:: 84.1			
Elev. Reliability Note::		DEM Ground Elev m:: 84			
Total Depth m:: 1.2		Primary Name::			
Township::		Concession::			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Lot:: Completion Date:: AUG-1965 Primary Water Use:: Not Used Municipality: Static Water Level:: -999.9 Sec. Water Use::					
--Details-- Stratum ID: 218520393 Bottom Depth(m): 0.3 Top Depth(m): 0.0 Stratum Desc: ASPHALT. Stratum ID: 218520394 Bottom Depth(m): 0.8 Top Depth(m): 0.3 Stratum Desc: SAND-MEDIUM,SILT, CLAY. BROWN,GLACIAL,AGE GLACIAL. Stratum ID: 218520395 Bottom Depth(m): 1.2 Top Depth(m): 0.8 Stratum Desc: CLAY. RED,LACUSTRINE,MOIST, AGE GLACIAL. LACUSTRINE					
31	1 of 1	N/32.6	79.8	61 Port St. W. Mississauga ON L5H 1E2	EHS
Postal Code: City: Address2: Address1: Provstate: Order No.: 20120411020 Addit. Info Ordered:: Report Date: 4/20/2012 3:41:04 PM Report Type: Standard Report Search Radius (km): 0.25					
32	1 of 1	W/36.4	83.8	ON	BORE
Borehole ID: 647796 Use: Geotechnical/Geological Investigation Drill Method:: Hand auger Easting:: 613595 Location Accuracy:: Elev. Reliability Note:: Total Depth m:: .8 Township:: Lot:: Completion Date:: AUG-1965 Primary Water Use:: Not Used Type: Borehole Status:: UTM Zone:: 17 Northing:: 4822228 Orig. Ground Elev m:: 84 DEM Ground Elev m:: 83.9 Primary Name:: Concession:: Municipality: Static Water Level:: -999.9 Sec. Water Use::					
--Details-- Stratum ID: 218520396 Bottom Depth(m): 0.5 Top Depth(m): 0.0 Stratum Desc: ASPHALT. Stratum ID: 218520397 Bottom Depth(m): 0.8 Top Depth(m): 0.5 Stratum Desc: SAND-MEDIUM,SILT, CLAY. BROWN,GLACIAL,AGE GLACIAL. Y. R					
34	1 of 1	WNW/40.0	81.3	Loblaws, Port Credit<UNOFFICIAL> Mississauga ON	SPL
Ref No: 3466-75Q4VJ Contaminant Code: 38 Contaminant Name: FREON R-22 (CFC)					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Contaminant Quantity: Incident Cause: Incident Dt: Incident Reason: Incident Summary: MOE Reported Dt: Environmental Impact: Nature of Impact: Receiving Medium: SAC Action Class: Sector Source Type: Receiving Environment: Incident Event: Site Municipality:		142 kg Discharge or Emission to Air Equipment Failure - Malfunction of system components Faxed Report-Loblaws-142 Kg R-22 to ATM. 8/2/2007 Confirmed Air Pollution Air Other Mississauga			
35	1 of 1	N/40.9	79.8	169 Lakeshore Rd W Mississauga ON L5H1G3	EHS
Postal Code: City: Address2: Address1: Provstate: Order No.: Addit. Info Ordered:: Report Date: Report Type: Search Radius (km):		L5H1G3 Mississauga 169 Lakeshore Rd W ON 20160328146 04-APR-16 Standard Report .25			
36	1 of 1	W/44.3	83.8	ON	BORE
Borehole ID: Use: Drill Method:: Easting:: Location Accuracy:: Elev. Reliability Note:: Total Depth m:: Township:: Lot:: Completion Date:: Primary Water Use::		640762 Geotechnical/Geological Investigation Power auger 613595 2.5 NOV-1966 Not Used	Type: Status:: UTM Zone:: Northing:: Orig. Ground Elev m:: DEM Ground Elev m:: Primary Name:: Concession:: Municipality: Static Water Level:: Sec. Water Use::		Borehole 17 4822253 84.2 83.9 -999.9
--Details--					
Stratum ID: Bottom Depth(m):		218493461 0.3		Top Depth(m): Stratum Desc:	0.0 FILL,SAND,SILT, GRAVEL. BROWN.
Stratum ID: Bottom Depth(m):		218493462 0.9		Top Depth(m): Stratum Desc:	0.3 CLAY,SILT,SAND. BROWN,LACUSTRINE,MOIST, AGE GLACIAL.
Stratum ID: Bottom Depth(m):		218493463 1.8		Top Depth(m): Stratum Desc:	0.9 SILT,CLAY,SAND. GREY,BROWN,LACUSTRINE,MOIST, AGE GLACIAL.
Stratum ID: Bottom Depth(m):		218493464 2.5		Top Depth(m): Stratum Desc:	1.8 SILT,CLAY,SAND. GREY,BROWN,LACUSTRINE,DENSE, AGE GLACIAL.

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
37	1 of 1	W/44.9	83.8	Mississauga ON	WWIS
<div> <div> Well ID: 7142032 Construction Date:: Primary Water Use:: Monitoring and Test Hole Sec. Water Use:: Final Well Status:: Recharge Well Specific Capacity:: Municipality: MISSISSAUGA CITY County: PEEL </div> <div> Lot: Concession: Concession Name: Easting NAD83:: Northing NAD83:: Zone:: UTM Reliability:: </div> </div>					
Bore Hole Information					
--					
Bore Hole ID: 1002952612					
DP2BR:					
Code OB:					
Code OB Description:					
Open Hole:					
Date Completed: 12-FEB-10					
Remarks:					
Zone: 17					
East 83: 613605					
North 83: 4822191					
UTMRC: 4					
UTMRC Description: margin of error : 30 m - 100 m					
Location Method: wwr					
Org CS: UTM83					
Elevation: 83.6					
Elevrc:					
Elevrc Description:					
Location Source Date:					
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					
--					
Overburden and Bedrock					
Materials Interval					
--					
Formation ID: 1003154564					
Layer: 1					
General Color: BROWN					
Most Common Material: SILT					
Other Materials: FINE SAND					
Other Materials: HARD					
Formation Top Depth: 0					
Formation End Depth: 1.5					
Formation End Depth UOM: m					
--					
Formation ID: 1003154565					
Layer: 2					
General Color: BROWN					
Most Common Material: SHALE					
Other Materials:					
Other Materials: WEATHERED					
Formation Top Depth: 1.5					
Formation End Depth: 1.74					
Formation End Depth UOM: m					
--					
Formation ID: 1003154566					
Layer: 3					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
General Color:		GREY			
Most Common Material:		SHALE			
Other Materials:					
Other Materials:		WEATHERED			
Formation Top Depth:		1.74			
Formation End Depth:		3.96			
Formation End Depth UOM:		m			
--		--			
Annular Space/Abandonment Sealing Record					
--		--			
Plug ID:		1003154568			
Layer:		1			
Plug From:		0			
Plug To:		.31			
Plug Depth UOM:		m			
--		--			
Plug ID:		1003154569			
Layer:		2			
Plug From:		.31			
Plug To:		.91			
Plug Depth UOM:		m			
--		--			
Plug ID:		1003154570			
Layer:		3			
Plug From:		.91			
Plug To:		3.96			
Plug Depth UOM:		m			
--		--			
Method of Construction & Well Use					
--		--			
Method Construction ID:		1003154576			
Method Construction Code:		D			
Method Construction:		Direct Push			
Other Method Construction:					
--		--			
Pipe Information					
--		--			
Pipe ID:		1003154563			
Casing Number:		0			
Comment:					
Alt Name:					
--		--			
Construction Record - Casing					
--		--			
Casing ID:		1003154572			
Layer:		1			
Open Hole or Material:		PLASTIC			
Depth From:		0			
Depth To:		.91			
Casing Diameter:		5.2			
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
--		--			
--		--			
Construction Record - Screen					
--		--			
Screen ID:		1003154573			
Layer:		1			
Slot:		10			
Screen Top Depth:		.93			
Screen End Depth:		3.96			
Screen Material:		5			
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Screen Diameter:		6.03			
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Hole Diameter					
--		--			
Hole ID:		1003154567			
Diameter:		10.92			
Depth From:		0			
Depth To:		3.96			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
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38	1 of 1	NNW/48.4	80.8	ON	BORE
Borehole ID:	647788			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Hand auger			UTM Zone::	17
Easting::	613895			Northing::	4822613
Location Accuracy::				Orig. Ground Elev m::	81.5
Elev. Reliability Note::				DEM Ground Elev m::	81.5
Total Depth m::	1.2			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	AUG-1965			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
<u>--Details--</u>					
Stratum ID:	218520371			Top Depth(m):	0.0
Bottom Depth(m):	0.2			Stratum Desc:	ASPHALT.
Stratum ID:	218520372			Top Depth(m):	0.2
Bottom Depth(m):	0.5			Stratum Desc:	SAND-MEDIUM,SILT, CLAY. BROWN.
Stratum ID:	218520373			Top Depth(m):	0.5
Bottom Depth(m):	0.9			Stratum Desc:	STONES.
Stratum ID:	218520374			Top Depth(m):	0.9
Bottom Depth(m):	1.2			Stratum Desc:	SAND-MEDIUM,SILT, CLAY. GLACIAL,AGE GLACIAL. Y, GLACIAL

39	1 of 1	S/48.7	79.4	ON	BORE
Borehole ID:	640739			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Power auger			UTM Zone::	17
Easting::	613975			Northing::	4821898
Location Accuracy::				Orig. Ground Elev m::	79.1
Elev. Reliability Note::				DEM Ground Elev m::	79
Total Depth m::	2.4			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	APR-1966			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
<u>--Details--</u>					
Stratum ID:	218493381			Top Depth(m):	0.0
Bottom Depth(m):	0.4			Stratum Desc:	SOIL,SAND,SILT,CLAY.BROWN.
Stratum ID:	218493382			Top Depth(m):	0.4

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Bottom Depth(m):	0.6			Stratum Desc:	SAND,SILT,CLAY. BROWN,ALLUVIAL, AGE POST-GLACIAL.
Stratum ID:	218493383			Top Depth(m):	0.6
Bottom Depth(m):	1.2			Stratum Desc:	SAND-MEDIUM,SILT, CLAY. BROWN,ALLUVIAL,WET, AGE POST-GLACIAL.
Stratum ID:	218493384			Top Depth(m):	1.2
Bottom Depth(m):	2.4			Stratum Desc:	CLAY,SAND,SILT. GREY,BROWN,ALLUVIAL,STIFF, AGE POST-GLACIAL. ,

40	1 of 1	ENE/49.0	75.9	ON	BORE
Borehole ID:	646193			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Power auger			UTM Zone::	17
Easting::	614375			Northing::	4822363
Location Accuracy::				Orig. Ground Elev m::	29.5
Elev. Reliability Note::				DEM Ground Elev m::	78
Total Depth m::	4.9			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	FEB-1965			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
--Details--					
Stratum ID:	218513981			Top Depth(m):	0.0
Bottom Depth(m):	1.5			Stratum Desc:	FILL.
Stratum ID:	218513982			Top Depth(m):	1.5
Bottom Depth(m):	3.8			Stratum Desc:	SILT,ORGANIC. GREY,ALLUVIAL,LOOSE, AGE POST-GLACIAL.
Stratum ID:	218513983			Top Depth(m):	3.8
Bottom Depth(m):	4.9			Stratum Desc:	TILL,SILT,CLAY. GLACIAL,AGE GLACIAL. 0005000700125050

41	1 of 1	S/50.0	78.0	ON	BORE
Borehole ID:	640738			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Power auger			UTM Zone::	17
Easting::	614005			Northing::	4821873
Location Accuracy::				Orig. Ground Elev m::	78.8
Elev. Reliability Note::				DEM Ground Elev m::	78.7
Total Depth m::	2.3			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	APR-1966			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
--Details--					
Stratum ID:	218493377			Top Depth(m):	0.0
Bottom Depth(m):	0.3			Stratum Desc:	FILL,GRAVEL,SAND, SILT. BROWN.
Stratum ID:	218493378			Top Depth(m):	0.3
Bottom Depth(m):	1.5			Stratum Desc:	SILT,SAND,CLAY. BROWN,FLUVIO-

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<p>GLACIAL,MOIST, AGE GLACIAL.</p> <p>Stratum ID: 218493379 Bottom Depth(m): 2.1</p> <p>Top Depth(m): 1.5 Stratum Desc: TILL,SAND,SILT MEDIUM TO COARSE, CLAY. BROWN,GLACIAL,MOIST, AGE GLACIAL.</p> <p>Stratum ID: 218493380 Bottom Depth(m): 2.3</p> <p>Top Depth(m): 2.1 Stratum Desc: TILL,SILT,SAND,CLAY.GREY,GLACIAL,VERY DENSE, AGE GLACIAL.</p>					
42	1 of 3	NNW/50.1	80.8	KEITH CARTER BOAT & MARINE LTD. 23-298 182 LAKESHORE RD. W. MISSISSAUGA ON L5H 1G4	GEN
<p>PO Box Num: Status: Country: Generator #: ON0960100 Approval Yrs:: 92,93,94,95,96,97,98 SIC Code: 3281 SIC Description: BOATBUILDING/REPAIR</p> <p>--Details-- Waste Code: 213 Waste Description: PETROLEUM DISTILLATES</p>					
42	2 of 3	NNW/50.1	80.8	KEITH CARTER BOAT & MARINE LTD. 182 LAKESHORE RD. W. MISSISSAUGA ON L5H 1G4	GEN
<p>PO Box Num: Status: Country: Generator #: ON0960100 Approval Yrs:: 86,87,88,89,90 SIC Code: 0000 SIC Description: *** NOT DEFINED ***</p> <p>--Details-- Waste Code: 213 Waste Description: PETROLEUM DISTILLATES</p>					
42	3 of 3	NNW/50.1	80.8	CARTER, KEITH BOAT & MARINE 182 LAKESHORE RD W MISSISSAUGA ON L5H 1G4	SCT
<p>Established: 0000 Plant Size (ft²): 0 Employment: 3</p> <p>--Details-- Description: BOAT BUILDING AND REPAIRING SIC/NAICS Code: 3732</p>					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
43	1 of 1	W/50.7	83.8	Mississauga ON	WWIS
<div> <div> Well ID: 7142031 Construction Date:: Primary Water Use:: Monitoring and Test Hole Sec. Water Use:: Final Well Status:: Monitoring and Test Hole Specific Capacity:: Municipality: MISSISSAUGA CITY County: PEEL </div> <div> Lot: Concession: Concession Name: Easting NAD83:: Northing NAD83:: Zone:: UTM Reliability:: </div> </div>					
Bore Hole Information					
--					
Bore Hole ID: 1002952610					
DP2BR:					
Code OB:					
Code OB Description:					
Open Hole:					
Date Completed: 12-FEB-10					
Remarks:					
Zone: 17					
East 83: 613616					
North 83: 4822175					
UTMRC: 4					
UTMRC Description: margin of error : 30 m - 100 m					
Location Method: wwr					
Org CS: UTM83					
Elevation: 83.5					
Elevrc:					
Elevrc Description:					
Location Source Date:					
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					
--					
Overburden and Bedrock					
Materials Interval					
--					
Formation ID: 1003154498					
Layer: 1					
General Color: BROWN					
Most Common Material: SILT					
Other Materials: FINE SAND					
Other Materials: HARD					
Formation Top Depth: 0					
Formation End Depth: 1.5					
Formation End Depth UOM: m					
--					
Formation ID: 1003154499					
Layer: 2					
General Color: BROWN					
Most Common Material: SHALE					
Other Materials:					
Other Materials: WEATHERED					
Formation Top Depth: 1.5					
Formation End Depth: 1.74					
Formation End Depth UOM: m					
--					
Formation ID: 1003154500					
Layer: 3					
General Color: GREY					
Most Common Material: SHALE					
Other Materials:					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Other Materials:		WEATHERED			
Formation Top Depth:		1.74			
Formation End Depth:		3.96			
Formation End Depth UOM:		m			
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Annular Space/Abandonment Sealing Record					
--		--			
Plug ID:		1003154502			
Layer:		1			
Plug From:		0			
Plug To:		.31			
Plug Depth UOM:		m			
--		--			
Plug ID:		1003154503			
Layer:		2			
Plug From:		.31			
Plug To:		.91			
Plug Depth UOM:		m			
--		--			
Plug ID:		1003154504			
Layer:		3			
Plug From:		.91			
Plug To:		3.96			
Plug Depth UOM:		m			
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Method of Construction & Well Use					
--		--			
Method Construction ID:		1003154510			
Method Construction Code:		D			
Method Construction:		Direct Push			
Other Method Construction:					
--		--			
Pipe Information					
--		--			
Pipe ID:		1003154497			
Casing Number:		0			
Comment:					
Alt Name:					
--		--			
Construction Record - Casing					
--		--			
Casing ID:		1003154506			
Layer:		1			
Open Hole or Material:		PLASTIC			
Depth From:		0			
Depth To:		.91			
Casing Diameter:		5.2			
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
--		--			
--		--			
Construction Record - Screen					
--		--			
Screen ID:		1003154507			
Layer:		1			
Slot:		10			
Screen Top Depth:		.91			
Screen End Depth:		3.96			
Screen Material:		5			
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:		6.03			
--		--			
Hole Diameter					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
-- Hole ID: Diameter: Depth From: Depth To: Hole Depth UOM: Hole Diameter UOM: -- --		-- 1003154501 10.92 0 3.96 m cm -- --			
44	1 of 2	W/51.6	83.8	542679 ONTARIO LTD 280 LAKESHORE RD PORT CREDIT MISSISSAUGA ON	EXP
Instance No: Instance ID: Instance Type: Description: Status: TSSA Program Area: Maximum Hazard Rank: Facility Type: Expired Date:		9591204 FS Facility EXPIRED 11/1/1991			
44	2 of 2	W/51.6	83.8	RIVERSIDE AUTOMOTIVE 280 LAKESHORE RD W MISSISSAUGA ON L5H 1G6	SCT
Established: Plant Size (ft²): Employment:		1983 3500 7			
--Details-- Description: SIC/NAICS Code:		Machine Shops 332710			
45	1 of 1	W/54.0	83.8	139 High Street West Mississauga ON L5H 1K4	EHS
Postal Code: City: Address2: Address1: Provstate: Order No.: Addit. Info Ordered:: Report Date: Report Type: Search Radius (km):		 20120803008 Fire Insur. Maps and/or Site Plans; Aerial Photos 14-AUG-12 Custom Report .28			
46	1 of 4	N/54.3	79.8	CITY OF MISSISSAUGA 161 LAKESHORE RD. W. MISSISSAUGA ON	GEN
PO Box Num: Status: Country: Generator #: Approval Yrs::		 ON9043857 2013			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
SIC Code: SIC Description:		913910			
<u>--Details--</u> Waste Code: Waste Description:		251 OIL SKIMMINGS & SLUDGES			
46	2 of 4	N/54.3	79.8	CITY OF MISSISSAUGA 161 LAKESHORE RD. W. MISSISSAUGA ON L5H 1G3	GEN
PO Box Num: Status: Country: Generator #: Approval Yrs:: SIC Code: SIC Description:		Registered Canada ON9043857 As of Sep 2016			
<u>--Details--</u> Waste Code: Waste Description:		251 L Waste oils/sludges (petroleum based)			
46	3 of 4	N/54.3	79.8	CITY OF MISSISSAUGA 161 LAKESHORE RD. W. MISSISSAUGA ON	GEN
PO Box Num: Status: Country: Generator #: Approval Yrs:: SIC Code: SIC Description:		ON9043857 As of May 2015			
<u>--Details--</u> Waste Code: Waste Description:		251 Waste oils/sludges (petroleum based)			
46	4 of 4	N/54.3	79.8	CITY OF MISSISSAUGA 161 LAKESHORE RD. W. MISSISSAUGA ON	GEN
PO Box Num: Status: Country: Generator #: Approval Yrs:: SIC Code: SIC Description:		ON9043857 2012 913910 Other Local Municipal and Regional Public Administration			
47	1 of 1	SSW/54.4	79.8	ON	BORE
Borehole ID: Use:	640740 Geotechnical/Geological Investigation	Type: Status::	Borehole		

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Drill Method:: Easting:: Location Accuracy:: Elev. Reliability Note:: Total Depth m:: Township:: Lot:: Completion Date:: Primary Water Use::	Power auger 613940 1.2 APR-1966 Not Used			UTM Zone:: Northing:: Orig. Ground Elev m:: DEM Ground Elev m:: Primary Name:: Concession:: Municipality: Static Water Level:: Sec. Water Use::	17 4821918 80.2 80 -999.9
--Details--					
Stratum ID: Bottom Depth(m):	218493385 0.1			Top Depth(m): Stratum Desc:	0.0 FILL, GRAVEL, SAND, SILT. BROWN.
Stratum ID: Bottom Depth(m):	218493386 0.8			Top Depth(m): Stratum Desc:	0.1 SILT, SAND, CLAY. BROWN, FLUVIO-GLACIAL, WET, AGE GLACIAL.
Stratum ID: Bottom Depth(m):	218493387 1.2			Top Depth(m): Stratum Desc:	0.8 TILL, CLAY, SAND, SILT. BROWN, GLACIAL, VERY DENSE, AGE GLACIAL. , SILT.
48	1 of 1	W/55.5	83.8	ON	BORE
Borehole ID: Use: Drill Method:: Easting:: Location Accuracy:: Elev. Reliability Note:: Total Depth m:: Township:: Lot:: Completion Date:: Primary Water Use::	640500 Geotechnical/Geological Investigation Power auger 613605 1.7 APR-1966 Not Used			Type: Status:: UTM Zone:: Northing:: Orig. Ground Elev m:: DEM Ground Elev m:: Primary Name:: Concession:: Municipality: Static Water Level:: Sec. Water Use::	Borehole 17 4822178 83.8 83.5 -999.9
--Details--					
Stratum ID: Bottom Depth(m):	218492424 0.2			Top Depth(m): Stratum Desc:	0.0 FILL, GRAVEL, SAND, SILT. BROWN.
Stratum ID: Bottom Depth(m):	218492425 1.7			Top Depth(m): Stratum Desc:	0.2 SAND-MEDIUM, SILT, CLAY. RED, BROWN, ALLUVIAL, WET, AGE POST-GLACIAL. CIAL.
49	1 of 1	WNW/55.9	82.8	High Benson Holdings Inc. 266 Lakeshore Road W Mississauga ON L5H 1G6	GEN
PO Box Num: Status: Country: Generator #: Approval Yrs:: SIC Code: SIC Description:	 Registered Canada ON8135868 As of Sep 2016 				
--Details--					
Waste Code:	251 L				

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Waste Description:		Waste oils/sludges (petroleum based)			
50	1 of 1	NNW/59.1	81.5	ON	BORE
Borehole ID:	640577			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Power auger			UTM Zone::	17
Easting::	613840			Northing::	4822603
Location Accuracy::				Orig. Ground Elev m::	82.1
Elev. Reliability Note::				DEM Ground Elev m::	82
Total Depth m::	4.1			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	AUG-1965			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
--Details--					
Stratum ID:	218492731			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	ASPHALT.
Stratum ID:	218492732			Top Depth(m):	0.1
Bottom Depth(m):	0.2			Stratum Desc:	FILL,STONES.
Stratum ID:	218492733			Top Depth(m):	0.2
Bottom Depth(m):	0.3			Stratum Desc:	FILL,SAND-MEDIUM TO COARSE,SILT,GRAVEL. BROWN.
Stratum ID:	218492734			Top Depth(m):	0.3
Bottom Depth(m):	1.2			Stratum Desc:	SAND-MEDIUM TO COARSE,SILT,CLAY. ALLUVIAL,AGE POST-GLACIAL.
Stratum ID:	218492735			Top Depth(m):	1.2
Bottom Depth(m):	1.8			Stratum Desc:	SAND-MEDIUM TO COARSE,SILT,CLAY. ALLUVIAL,AGE POST-GLACIAL.
Stratum ID:	218492736			Top Depth(m):	1.8
Bottom Depth(m):	2.1			Stratum Desc:	SAND-MEDIUM TO COARSE,SILT,CLAY. GREY,FLUVIO-GLACIAL, AGE GLACIAL.
Stratum ID:	218492737			Top Depth(m):	2.1
Bottom Depth(m):	4.1			Stratum Desc:	TILL,CLAY,SAND,SILT.GREY,GLACIAL,AGE GLACIAL. BROWN
51	1 of 1	WSW/59.3	82.8	ON	BORE
Borehole ID:	640498			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Power auger			UTM Zone::	17
Easting::	613695			Northing::	4822103
Location Accuracy::				Orig. Ground Elev m::	82.9
Elev. Reliability Note::				DEM Ground Elev m::	82.5
Total Depth m::	1.8			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	APR-1966			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
--Details--					
Stratum ID:	218492416			Top Depth(m):	0.0

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Bottom Depth(m):	0.1			Stratum Desc:	ASPHALT.
Stratum ID:	218492417			Top Depth(m):	0.1
Bottom Depth(m):	0.4			Stratum Desc:	FILL, GRAVEL, SAND, SILT. BROWN.
Stratum ID:	218492418			Top Depth(m):	0.4
Bottom Depth(m):	0.9			Stratum Desc:	SAND-MEDIUM, SILT, CLAY. BROWN, FLUVIO-GLACIAL, AGE GLACIAL.
Stratum ID:	218492419			Top Depth(m):	0.9
Bottom Depth(m):	1.8			Stratum Desc:	TILL, CLAY, SAND, SILT. BROWN, GLACIAL, MOIST, AGE GLACIAL.

52	1 of 1	WSW/60.5	82.2	ON	BORE
Borehole ID:	640497			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Power auger			UTM Zone::	17
Easting::	613725			Northing::	4822078
Location Accuracy::				Orig. Ground Elev m::	82.1
Elev. Reliability Note::				DEM Ground Elev m::	82
Total Depth m::	1.2			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	APR-1966			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
--Details--					
Stratum ID:	218492414			Top Depth(m):	0.1
Bottom Depth(m):	0.5			Stratum Desc:	FILL, GRAVEL, SAND, SOIL. BROWN.
Stratum ID:	218492415			Top Depth(m):	0.5
Bottom Depth(m):	1.2			Stratum Desc:	CLAY, SAND, SILT. BROWN, ALLUVIAL, MOIST, AGE POST-GLACIAL. T-GLACIAL
Stratum ID:	218492413			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	ASPHALT.

53	1 of 1	WSW/60.6	83.5	ON	BORE
Borehole ID:	640499			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Power auger			UTM Zone::	17
Easting::	613635			Northing::	4822148
Location Accuracy::				Orig. Ground Elev m::	83.3
Elev. Reliability Note::				DEM Ground Elev m::	83.3
Total Depth m::	1.5			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	APR-1966			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
--Details--					
Stratum ID:	218492420			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	ASPHALT.
Stratum ID:	218492421			Top Depth(m):	0.1
Bottom Depth(m):	0.2			Stratum Desc:	FILL, LIMESTONE.

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Stratum ID:	218492422			Top Depth(m):	0.2
Bottom Depth(m):	0.4			Stratum Desc:	FILL, GRAVEL, SAND, SILT.
Stratum ID:	218492423			Top Depth(m):	0.4
Bottom Depth(m):	1.5			Stratum Desc:	SILT, CLAY, SAND. BROWN, ALLUVIAL, WET, AGE POST-GLACIAL. , SAND, SI
54	1 of 1	SW/60.9	81.8	ON	BORE
Borehole ID:	640496			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Power auger			UTM Zone::	17
Easting::	613750			Northing::	4822058
Location Accuracy::				Orig. Ground Elev m::	81.8
Elev. Reliability Note::				DEM Ground Elev m::	81.9
Total Depth m::	1.5			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	APR-1966			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
--Details--					
Stratum ID:	218492409			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	ASPHALT.
Stratum ID:	218492410			Top Depth(m):	0.1
Bottom Depth(m):	0.2			Stratum Desc:	FILL, GRAVEL, SAND, SILT. BROWN.
Stratum ID:	218492411			Top Depth(m):	0.2
Bottom Depth(m):	0.9			Stratum Desc:	SAND-MEDIUM TO COARSE, SILT, CLAY. BROWN, ALLUVIAL, WET, AGE POST-GLACIAL.
Stratum ID:	218492412			Top Depth(m):	0.9
Bottom Depth(m):	1.5			Stratum Desc:	SILT, SAND, CLAY. BROWN, ALLUVIAL, MOIST, AGE POST-GLACIAL.
55	1 of 1	W/61.3	83.8	MISSISSAUGA ON	WWIS
Well ID:	7203864			Lot:	
Construction Date::				Concession:	
Primary Water Use::	Monitoring			Concession Name:	
Sec. Water Use::				Easting NAD83::	
Final Well Status::	Observation Wells			Northing NAD83::	
Specific Capacity::				Zone::	
Municipality:	MISSISSAUGA CITY (PORT CREDIT)			UTM Reliability::	
County:	PEEL				
Bore Hole Information					
--	--				
Bore Hole ID:	1004377419				
DP2BR:					
Code OB:					
Code OB Description:					
Open Hole:					
Date Completed:	03-MAY-13				
Remarks:					
Zone:	17				
East 83:	613607				
North 83:	4822297				

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
UTMRC:		4			
UTMRC Description:		margin of error : 30 m - 100 m			
Location Method:		wwr			
Org CS:		UTM83			
Elevation:					
Elevrc:					
Elevrc Description:					
Location Source Date:					
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					
--		--			
Overburden and Bedrock Materials Interval					
--		--			
Formation ID:		1004968642			
Layer:		1			
General Color:		BROWN			
Most Common Material:		SILT			
Other Materials:		HARD			
Other Materials:					
Formation Top Depth:		0			
Formation End Depth:		7			
Formation End Depth UOM:		ft			
--		--			
Formation ID:		1004968643			
Layer:		2			
General Color:		GREY			
Most Common Material:		SHALE			
Other Materials:		HARD			
Other Materials:					
Formation Top Depth:		7			
Formation End Depth:		20			
Formation End Depth UOM:		ft			
--		--			
Annular Space/Abandonment Sealing Record					
--		--			
Plug ID:		1004968650			
Layer:		1			
Plug From:		0			
Plug To:		8			
Plug Depth UOM:		ft			
--		--			
Method of Construction & Well Use					
--		--			
Method Construction ID:		1004968649			
Method Construction Code:		2			
Method Construction:		Rotary (Convent.)			
Other Method Construction:					
--		--			
Pipe Information					
--		--			
Pipe ID:		1004968641			
Casing Number:		0			
Comment:					
Alt Name:					
--		--			
Construction Record - Casing					
--		--			
Casing ID:		1004968646			
Layer:		1			
Open Hole or Material:		PLASTIC			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Depth From:		0			
Depth To:		10			
Casing Diameter:		2			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
--		--			
--		--			
Construction Record - Screen					
--		--			
Screen ID:		1004968647			
Layer:		1			
Slot:		10			
Screen Top Depth:		10			
Screen End Depth:		20			
Screen Material:		5			
Screen Depth UOM:		ft			
Screen Diameter UOM:		inch			
Screen Diameter:		2			
--		--			
Hole Diameter					
--		--			
Hole ID:		1004968644			
Diameter:		8			
Depth From:		0			
Depth To:		20			
Hole Depth UOM:		ft			
Hole Diameter UOM:		inch			
--		--			
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56	1 of 1	SSW/62.0	79.8	ON	BORE
Borehole ID:	640741			Type:	Borehole
Use:				Status::	
Drill Method::				UTM Zone::	17
Easting::	613915			Northing::	4821928
Location Accuracy::				Orig. Ground Elev m::	80.8
Elev. Reliability Note::				DEM Ground Elev m::	81.4
Total Depth m::	1.7			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	APR-1966			Static Water Level::	-999.9
Primary Water Use::				Sec. Water Use::	
--Details--					
Stratum ID:	218493388			Top Depth(m):	0.0
Bottom Depth(m):	0.2			Stratum Desc:	SOIL,SAND,SILT,CLAY.BROWN.
Stratum ID:	218493389			Top Depth(m):	0.2
Bottom Depth(m):	0.6			Stratum Desc:	SAND-MEDIUM TO COARSE,SILT,CLAY. BROWN,ALLUVIAL, AGE POST-GLACIAL.
Stratum ID:	218493390			Top Depth(m):	0.6
Bottom Depth(m):	1.7			Stratum Desc:	SAND,SILT,CLAY. BROWN,ALLUVIAL, AGE POST-GLACIAL. ,SILT.

57	1 of 1	SW/67.8	80.8	ON	BORE
Borehole ID:	640494			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Drill Method:: Easting:: Location Accuracy:: Elev. Reliability Note:: Total Depth m:: Township:: Lot:: Completion Date:: Primary Water Use::	Power auger 613835 1.2 APR-1966 Not Used			UTM Zone:: 17 Northing:: 4821983 Orig. Ground Elev m:: 81.4 DEM Ground Elev m:: 81.1 Primary Name:: Concession:: Municipality: Static Water Level:: -999.9 Sec. Water Use::	
--Details--					
Stratum ID: Bottom Depth(m):	218492403 0.1			Top Depth(m): 0.0 Stratum Desc: ASPHALT.	
Stratum ID: Bottom Depth(m):	218492404 0.2			Top Depth(m): 0.1 Stratum Desc: FILL, GRAVEL. BROWN.	
Stratum ID: Bottom Depth(m):	218492405 1.2			Top Depth(m): 0.2 Stratum Desc: SILT, SAND, CLAY. BROWN, ALLUVIAL, MOIST, AGE POST-GLACIAL. SAND. B	
58	1 of 6	NNW/68.3	80.8	R.M. OF PEEL LAKESHORE RD.W/MISSISSAUGA RD. MISSISSAUGA CITY ON	CA
Certificate #: Application Year: Issue Date: Approval Type: Status: Application Type: Client Name:: Client Address:: Client City:: Client Postal Code:: Project Description:: Contaminants:: Emission Control::	7-0302-95- 95 5/3/1995 Municipal water Approved 				
58	2 of 6	NNW/68.3	80.8	MCCOLL-FRONTENAC (ESSO PETROLEUM CANADA) LAKESHORE DR./MISSISSAUGA RD. MISSISSAUGA CITY ON	CA
Certificate #: Application Year: Issue Date: Approval Type: Status: Application Type: Client Name:: Client Address:: Client City:: Client Postal Code:: Project Description:: Contaminants:: Emission Control::	3-0192-91- 91 3/1/1991 Municipal sewage Preliminary approval 				
58	3 of 6	NNW/68.3	80.8	MCCOLL-FRONTENAC (ESSO PETROLEUM	CA

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
CANADA) LAKESHORE DR./MISSISSAUGA RD. MISSISSAUGA CITY ON					
Certificate #: Application Year: Issue Date: Approval Type: Status: Application Type: Client Name:: Client Address:: Client City:: Client Postal Code:: Project Description:: Contaminants:: Emission Control::		3-0192-91-000 91 11/29/91 Municipal sewage Application Cancelled			
58	4 of 6	NNW/68.3	80.8	The Regional Municipality of Peel On Lakeshore Rd., just East of Mississauga Rd. Mississauga ON	SPL
Ref No: Contaminant Code: Contaminant Name: Contaminant Quantity: Incident Cause: Incident Dt: Incident Reason: Incident Summary: MOE Reported Dt: Environmental Impact: Nature of Impact: Receiving Medium: SAC Action Class: Sector Source Type: Receiving Environment: Incident Event: Site Municipality:		7554-6K2QUG BIOSLUDGE 70 L Valve / Fitting Leak Or Failure 12/13/2005 Equipment Failure - Malfunction of system components Spill of Bio-sludge - near Port Credit - Unk. Volume 12/13/2005 Confirmed Surface Water Pollution Water Land Spills Other Plant - Sewage Municipal Mississauga			
58	5 of 6	NNW/68.3	80.8	The Regional Municipality of Peel Lakeshore Rd and Mississauga Rd Mississauga ON	SPL
Ref No: Contaminant Code: Contaminant Name: Contaminant Quantity: Incident Cause: Incident Dt: Incident Reason: Incident Summary: MOE Reported Dt: Environmental Impact: Nature of Impact: Receiving Medium: SAC Action Class: Sector Source Type: Receiving Environment: Incident Event: Site Municipality:		1880-9SZS29 44 SEWAGE,RAW UNCHLORINATED 0 other - see incident description Leak/Break 1/22/2015 Blockage Region of Peel, sanitary surcharge to grass, clnd 1/22/2015 Land Land Spills Mississauga			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
58	6 of 6	NNW/68.3	80.8	MISSISSAUGA PUBLIC WORKS STADINGTON PARK AT CORNER OF LAKESHORE & MISSISSAUGA ROADS MOTOR VEHICLE (OPERATING FLUID) MISSISSAUGA CITY ON	SPL
Ref No: Contaminant Code: Contaminant Name: Contaminant Quantity: Incident Cause: Incident Dt: Incident Reason: Incident Summary: MOE Reported Dt: Environmental Impact: Nature of Impact: Receiving Medium: SAC Action Class: Sector Source Type: Receiving Environment: Incident Event: Site Municipality:		113008	UNDERGROUND TANK LEAK 5/11/1995 CORROSION MISSISSAUGA PARKS & REC: 100M3 DIESEL/WATER NOTED WHEN REMOVING UST: WORKS 5/11/1995 CONFIRMED Multi Media Pollution LAND		
59	1 of 1	W/69.9	84.0	320 Lakeshore Road West Mississauga ON	EHS
Postal Code: City: Address2: Address1: Provstate: Order No.: Addit. Info Ordered:: Report Date: Report Type: Search Radius (km):		Mississauga 320 Lakeshore Road West ON 20150811042 14-AUG-15 Custom Report .25			
60	1 of 1	W/70.5	83.9	ON	BORE
Borehole ID: Use: Drill Method:: Easting:: Location Accuracy:: Elev. Reliability Note:: Total Depth m:: Township:: Lot:: Completion Date:: Primary Water Use::		637834 Geotechnical/Geological Investigation Hand auger 613570 1.2 AUG-1965 Not Used	Type: Status:: UTM Zone:: Northing:: Orig. Ground Elev m:: DEM Ground Elev m:: Primary Name:: Concession:: Municipality: Static Water Level:: Sec. Water Use::	Borehole 17 4822193 83.6 83.8 -999.9	
--Details--					
Stratum ID: Bottom Depth(m):		218481904 0.5	Top Depth(m): Stratum Desc:	0.3 STONES,SAND-MEDIUM. GREY.	
Stratum ID: Bottom Depth(m):		218481905 0.8	Top Depth(m): Stratum Desc:	0.5 SAND-MEDIUM TO COARSE,SILT,CLAY. BROWN,GLACIAL,AGE GLACIAL.	

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Stratum ID:	218481906			Top Depth(m):	0.8
Bottom Depth(m):	1.2			Stratum Desc:	CLAY. GREY,LACUSTRINE,AGE GLACIAL. L
Stratum ID:	218481903			Top Depth(m):	0.0
Bottom Depth(m):	0.3			Stratum Desc:	ASPHALT.

61	1 of 1	SSW/71.2	80.8	ON	BORE
Borehole ID:	640493			Type:	Borehole
Use:				Status::	
Drill Method::				UTM Zone::	17
Easting::	613855			Northing::	4821963
Location Accuracy::				Orig. Ground Elev m::	81.4
Elev. Reliability Note::				DEM Ground Elev m::	81.2
Total Depth m::	2.9			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	APR-1966			Static Water Level::	-999.9
Primary Water Use::				Sec. Water Use::	
--Details--					
Stratum ID:	218492398			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	ASPHALT.
Stratum ID:	218492399			Top Depth(m):	0.1
Bottom Depth(m):	0.2			Stratum Desc:	FILL,GRAVEL.
Stratum ID:	218492400			Top Depth(m):	0.2
Bottom Depth(m):	2.1			Stratum Desc:	SILT,SAND,CLAY. BROWN,ALLUVIAL,MOIST, AGE POST-GLACIAL.
Stratum ID:	218492401			Top Depth(m):	2.1
Bottom Depth(m):	2.7			Stratum Desc:	SILT,CLAY,SAND. BROWN,ALLUVIAL,MOIST, AGE POST-GLACIAL.
Stratum ID:	218492402			Top Depth(m):	2.7
Bottom Depth(m):	2.9			Stratum Desc:	SILT,CLAY,SAND. GREY,ALLUVIAL,MOIST, AGE POST-GLACIAL.

62	1 of 1	ENE/72.8	76.7	ON	BORE
Borehole ID:	646195			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Power auger			UTM Zone::	17
Easting::	614415			Northing::	4822363
Location Accuracy::				Orig. Ground Elev m::	29.8
Elev. Reliability Note::				DEM Ground Elev m::	78.2
Total Depth m::	4.7			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	FEB-1965			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
--Details--					
Stratum ID:	218513987			Top Depth(m):	0.0
Bottom Depth(m):	2.0			Stratum Desc:	FILL.
Stratum ID:	218513988			Top Depth(m):	2.0

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Bottom Depth(m):	3.4			Stratum Desc:	SILT,ORGANIC. GREY,ALLUVIAL,LOOSE, AGE POST-GLACIAL.
Stratum ID:	218513989			Top Depth(m):	3.4
Bottom Depth(m):	4.7			Stratum Desc:	TILL,SILT,CLAY. GREY,GLACIAL,DENSE, AGE GLACIAL. 0006500800110060350100010

63	1 of 1	SW/73.1	81.6	ON	BORE
Borehole ID:	640495			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Power auger			UTM Zone::	17
Easting::	613775			Northing::	4822023
Location Accuracy::				Orig. Ground Elev m::	81.6
Elev. Reliability Note::				DEM Ground Elev m::	81.9
Total Depth m::	1.2			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	APR-1966			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
--Details--					
Stratum ID:	218492406			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	ASPHALT.
Stratum ID:	218492407			Top Depth(m):	0.1
Bottom Depth(m):	0.3			Stratum Desc:	FILL,GRAVEL. BROWN.
Stratum ID:	218492408			Top Depth(m):	0.3
Bottom Depth(m):	1.2			Stratum Desc:	CLAY,SAND,SILT. BROWN,ALLUVIAL,MOIST, AGE POST-GLACIAL. SAND. B

64	1 of 5	NNW/73.3	80.8	Gears Bike Shop 176 Lakeshore Rd West Mississauga ON	GEN
PO Box Num:					
Status:					
Country:					
Generator #:	ON2847464				
Approval Yrs::	2013				
SIC Code:	451110				
SIC Description:	SPORTING GOODS STORES				
--Details--					
Waste Code:	251				
Waste Description:	OIL SKIMMINGS & SLUDGES				

64	2 of 5	NNW/73.3	80.8	Gears Bike Shop 176 Lakeshore Rd West Mississauga ON L5H 1G4	GEN
PO Box Num:					
Status:	Registered				
Country:	Canada				
Generator #:	ON2847464				
Approval Yrs::	As of Sep 2016				
SIC Code:					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
SIC Description:					
--Details--					
Waste Code:		251 L			
Waste Description:		Waste oils/sludges (petroleum based)			
64	3 of 5	NNW/73.3	80.8	Gears Bike Shop 176 Lakeshore Rd West Mississauga ON	GEN
PO Box Num:					
Status:					
Country:					
Generator #:		ON2847464			
Approval Yrs.:		2012			
SIC Code:		451110			
SIC Description:		Sporting Goods Stores			
64	4 of 5	NNW/73.3	80.8	Gears Bike Shop 176 Lakeshore Rd West Mississauga ON	GEN
PO Box Num:					
Status:					
Country:					
Generator #:		ON2847464			
Approval Yrs.:		As of May 2015			
SIC Code:					
SIC Description:					
--Details--					
Waste Code:		251			
Waste Description:		Waste oils/sludges (petroleum based)			
64	5 of 5	NNW/73.3	80.8	GENUINE FAKES 176 LAKESHORE RD W MISSISSAUGA ON L5H 1G4	SCT
Established:		1992			
Plant Size (ft²):		0			
Employment:		3			
--Details--					
Description:		HOUSEHOLD FURNITURE, N.E.C.			
SIC/NAICS Code:		2519			
Description:		FURNITURE & FIXTURES, N.E.C.			
SIC/NAICS Code:		2599			
65	1 of 1	NNE/74.3	78.8	ON	BORE
Borehole ID:		640704		Type:	Borehole
Use:		Geotechnical/Geological Investigation		Status::	
Drill Method::		Power auger		UTM Zone::	17
Easting::		614175		Northing::	4822543

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Location Accuracy::				Orig. Ground Elev m::	79.2
Elev. Reliability Note::				DEM Ground Elev m::	79
Total Depth m::			1.2	Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::			AUG-1965	Static Water Level::	-999.9
Primary Water Use::			Not Used	Sec. Water Use::	
--Details--					
Stratum ID:			218493240	Top Depth(m):	0.0
Bottom Depth(m):			0.0	Stratum Desc:	ASPHALT.
Stratum ID:			218493241	Top Depth(m):	0.0
Bottom Depth(m):			0.2	Stratum Desc:	FILL, GRAVEL.
Stratum ID:			218493242	Top Depth(m):	0.2
Bottom Depth(m):			0.5	Stratum Desc:	CLAY, SAND, SILT. GREY, ALLUVIAL, AGE POST-GLACIAL.
Stratum ID:			218493243	Top Depth(m):	0.5
Bottom Depth(m):			0.9	Stratum Desc:	SAND-MEDIUM TO COARSE, SILT, CLAY. BROWN, ALLUVIAL, AGE POST-GLACIAL.
Stratum ID:			218493244	Top Depth(m):	0.9
Bottom Depth(m):			1.1	Stratum Desc:	SAND-MEDIUM TO COARSE, CLAY, SILT. BROWN, ALLUVIAL, AGE POST-GLACIAL.
Stratum ID:			218493245	Top Depth(m):	1.1
Bottom Depth(m):			1.2	Stratum Desc:	SAND-MEDIUM TO COARSE, SILT, CLAY. ALLUVIAL, AGE POST-GLACIAL. VI

66	1 of 1	NE/74.7	77.2	ON	BORE
Borehole ID:			640698	Type:	Borehole
Use:			Geotechnical/Geological Investigation	Status::	
Drill Method::			Power auger	UTM Zone::	17
Easting::			614270	Northing::	4822473
Location Accuracy::				Orig. Ground Elev m::	77.7
Elev. Reliability Note::				DEM Ground Elev m::	77.9
Total Depth m::			2.7	Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::			AUG-1965	Static Water Level::	-999.9
Primary Water Use::			Not Used	Sec. Water Use::	
--Details--					
Stratum ID:			218493211	Top Depth(m):	0.0
Bottom Depth(m):			0.0	Stratum Desc:	ASPHALT.
Stratum ID:			218493212	Top Depth(m):	0.0
Bottom Depth(m):			0.2	Stratum Desc:	FILL, STONES.
Stratum ID:			218493213	Top Depth(m):	0.2
Bottom Depth(m):			1.4	Stratum Desc:	SAND-MEDIUM TO COARSE, CLAY, SILT. ALLUVIAL, AGE POST-GLACIAL.
Stratum ID:			218493214	Top Depth(m):	1.4
Bottom Depth(m):			2.7	Stratum Desc:	CLAY, SAND, SILT. ALLUVIAL, AGE POST-GLACIAL. LLUVIA

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
67	1 of 1	NE/75.4	77.9	Saddlington Park MISSISSAUGA ON	WDSH
Site No.:		X7070			
Region:		CENTRAL			
County:		PEEL			
Concession:					
Lot:		Saddlington Park			
Easting::		614250			
Northing::		4822275			
Zone::		17			
Date Closed:					
Status::		CLOSED			
Classification::		A3 - POTENTIAL HUMAN IMPACT-URBAN MUNICIPAL/DOMESTIC WASTE - CLOSED <10 YRS			
%CommercialWste::		n/a			
%DomesticWste Rec::		n/a			
%LiquidWste Rec::		n/a			
%HazardousWste Rec::		n/a			
%Non-haz.Wste Rec::		n/a			
%Sewage/Sludge Rec::		n/a			
%Other Wste Rec::		n/a			
68	1 of 1	W/76.3	83.8	R.M. OF PEEL PINE AVE.N./PINE AVE.S. MISSISSAUGA CITY ON	CA
Certificate #:		7-0658-96-			
Application Year:		96			
Issue Date:		7/23/1996			
Approval Type:		Municipal water			
Status:		Approved			
Application Type:					
Client Name::					
Client Address::					
Client City::					
Client Postal Code::					
Project Description::					
Contaminants::					
Emission Control::					
69	1 of 1	WNW/79.7	83.8	Mississauga ON	WWIS
Well ID:		7203866		Lot:	
Construction Date::				Concession:	
Primary Water Use::		Monitoring		Concession Name:	
Sec. Water Use::				Easting NAD83::	
Final Well Status::		Observation Wells		Northing NAD83::	
Specific Capacity::				Zone::	
Municipality:		MISSISSAUGA CITY (PORT CREDIT)		UTM Reliability::	
County:		PEEL			
Bore Hole Information					
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Bore Hole ID:		1004377425			
DP2BR:					
Code OB:					
Code OB Description:					
Open Hole:					
Date Completed:		06-MAY-13			
Remarks:					
Zone:		17			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
East 83:		613636			
North 83:		4822365			
UTMRC:		4			
UTMRC Description:		margin of error : 30 m - 100 m			
Location Method:		wwr			
Org CS:		UTM83			
Elevation:					
Elevrc:					
Elevrc Description:					
Location Source Date:					
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					
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Overburden and Bedrock Materials Interval					
--	--	--			
Formation ID:		1004968705			
Layer:		1			
General Color:		BROWN			
Most Common Material:		SAND			
Other Materials:		SILT			
Other Materials:		GRAVEL			
Formation Top Depth:		0			
Formation End Depth:		7			
Formation End Depth UOM:		ft			
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Formation ID:		1004968706			
Layer:		2			
General Color:		GREY			
Most Common Material:		SHALE			
Other Materials:		HARD			
Other Materials:					
Formation Top Depth:		7			
Formation End Depth:		20			
Formation End Depth UOM:		ft			
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Annular Space/Abandonment Sealing Record					
--	--	--			
Plug ID:		1004968713			
Layer:		1			
Plug From:		0			
Plug To:		8			
Plug Depth UOM:		ft			
--	--	--			
Method of Construction & Well Use					
--	--	--			
Method Construction ID:		1004968712			
Method Construction Code:		2			
Method Construction:		Rotary (Convent.)			
Other Method Construction:					
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Pipe Information					
--	--	--			
Pipe ID:		1004968704			
Casing Number:		0			
Comment:					
Alt Name:					
--	--	--			
Construction Record - Casing					
--	--	--			
Casing ID:		1004968709			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Layer:	1				
Open Hole or Material:	PLASTIC				
Depth From:	0				
Depth To:	10				
Casing Diameter:	2				
Casing Diameter UOM:	inch				
Casing Depth UOM:	ft				
--	--				
--	--				
Construction Record - Screen					
--	--				
Screen ID:	1004968710				
Layer:	1				
Slot:	10				
Screen Top Depth:	10				
Screen End Depth:	20				
Screen Material:	5				
Screen Depth UOM:	ft				
Screen Diameter UOM:	inch				
Screen Diameter:	2				
--	--				
Hole Diameter					
--	--				
Hole ID:	1004968707				
Diameter:	6				
Depth From:	0				
Depth To:	20				
Hole Depth UOM:	ft				
Hole Diameter UOM:	inch				
--	--				
--	--				

[70](#) 1 of 1 NNW/81.5 80.8 ON [BORE](#)

Borehole ID: 647787
Use: Geotechnical/Geological Investigation
Drill Method:: Hand auger
Easting:: 613915
Location Accuracy::
Elev. Reliability Note::
Total Depth m:: 3.7
Township::
Lot::
Completion Date:: AUG-1965
Primary Water Use:: Not Used

Type: Borehole
Status::
UTM Zone:: 17
Northing:: 4822643
Orig. Ground Elev m:: 81.6
DEM Ground Elev m:: 81.4
Primary Name::
Concession::
Municipality:
Static Water Level:: -999.9
Sec. Water Use::

--Details--

Stratum ID: 218520368
Bottom Depth(m): 0.3

Top Depth(m): 0.0
Stratum Desc: ASPHALT.

Stratum ID: 218520369
Bottom Depth(m): 2.1

Top Depth(m): 0.3
Stratum Desc: SAND,SILT-MEDIUM TO COARSE.
 GREY,GLACIAL,AGE GLACIAL.

Stratum ID: 218520370
Bottom Depth(m): 3.7

Top Depth(m): 2.1
Stratum Desc: SAND-MEDIUM TO COARSE,SILT,CLAY.
 GREY,GLACIAL,AGE GLACIAL.

[71](#) 1 of 1 WSW/82.6 82.8 Mississauga ON [WWIS](#)

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Well ID:	7142033			Lot:	
Construction Date::				Concession:	
Primary Water Use::	Monitoring and Test Hole			Concession Name:	
Sec. Water Use::				Easting NAD83::	
Final Well Status::	Monitoring and Test Hole			Northing NAD83::	
Specific Capacity::				Zone::	
Municipality:	MISSISSAUGA CITY			UTM Reliability::	
County:	PEEL				
Bore Hole Information					
--	--				
Bore Hole ID:	1002952614				
DP2BR:					
Code OB:					
Code OB Description:					
Open Hole:					
Date Completed:	12-FEB-10				
Remarks:					
Zone:	17				
East 83:	613645				
North 83:	4822112				
UTMRC:	4				
UTMRC Description:	margin of error : 30 m - 100 m				
Location Method:	wwr				
Org CS:	UTM83				
Elevation:	82.8				
Elevrc:					
Elevrc Description:					
Location Source Date:					
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					
--	--				
Overburden and Bedrock					
Materials Interval					
--	--				
Formation ID:	1003154579				
Layer:	1				
General Color:	BROWN				
Most Common Material:	SILT				
Other Materials:	FINE SAND				
Other Materials:	HARD				
Formation Top Depth:	0				
Formation End Depth:	1.5				
Formation End Depth UOM:	m				
--	--				
Formation ID:	1003154580				
Layer:	2				
General Color:	BROWN				
Most Common Material:	SHALE				
Other Materials:					
Other Materials:	WEATHERED				
Formation Top Depth:	1.5				
Formation End Depth:	1.74				
Formation End Depth UOM:	m				
--	--				
Formation ID:	1003154581				
Layer:	3				
General Color:	GREY				
Most Common Material:	SHALE				
Other Materials:					
Other Materials:	WEATHERED				
Formation Top Depth:	1.74				
Formation End Depth:	3.96				

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Formation End Depth UOM:		m			
--		--			
Annular Space/Abandonment Sealing Record					
--		--			
Plug ID:		1003154583			
Layer:		1			
Plug From:		0			
Plug To:		.31			
Plug Depth UOM:		m			
--		--			
Plug ID:		1003154584			
Layer:		2			
Plug From:		.31			
Plug To:		.91			
Plug Depth UOM:		m			
--		--			
Plug ID:		1003154585			
Layer:		3			
Plug From:		.91			
Plug To:		3.96			
Plug Depth UOM:		m			
--		--			
Method of Construction & Well Use					
--		--			
Method Construction ID:		1003154591			
Method Construction Code:		D			
Method Construction:		Direct Push			
Other Method Construction:					
--		--			
Pipe Information					
--		--			
Pipe ID:		1003154578			
Casing Number:		0			
Comment:					
Alt Name:					
--		--			
Construction Record - Casing					
--		--			
Casing ID:		1003154587			
Layer:		1			
Open Hole or Material:		PLASTIC			
Depth From:		0			
Depth To:		.91			
Casing Diameter:		5.2			
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
--		--			
--		--			
Construction Record - Screen					
--		--			
Screen ID:		1003154588			
Layer:		1			
Slot:		10			
Screen Top Depth:		.93			
Screen End Depth:		3.96			
Screen Material:		5			
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:		6.03			
--		--			
Hole Diameter					
--		--			
Hole ID:		1003154582			
Diameter:		10.92			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Depth From:		0			
Depth To:		3.96			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
--		--			
--		--			
72	1 of 1	NNW/85.0	80.8	11 Wesley Avenue, Mississauga ON L5H 2M4	INC
Incident No:		444682			
Incident ID:		2596508			
Attribute Category:		FS-Incident			
Status Code:		Causal Analysis Complete			
Incident Location:		11 Wesley Avenue, Mississauga - 1/2" Pipeline Hit			
Drainage System:					
Sub Surface Contam.:					
Aff. Prop. Use Water:					
Contam. Migrated:					
Contact Natural Env.:					
Near Body of Water:					
Approx. Quant. Rel.:					
Equipment Model:					
Serial No:					
Residential App. Type:					
Commercial App. Type:					
Industrial App. Type:					
Institutional App. Type:					
Venting Type:					
Vent Connector Mater:					
Vent Chimney Mater:					
Pipeline Type:		Service / Riser Distribution Pipeline			
Pipeline Involved:					
Pipe Material:		Plastic			
Depth Ground Cover:					
Regulator Location:		Outside			
Regulator Type:		Service Regulator (up to 60 psi intake)			
Operation Pressure:		IP			
Liquid Prop Make:					
Liquid Prop Model:					
Liquid Prop Serial No:					
Equipment Type:					
Cylinder Capacity:					
Cylinder Capac. Units:					
Cylinder Material Type:					
Tank Capacity:					
Fuels Occurrence Type:					
Fuel Type Involved:					
Date of Occurrence:					
Time of Occurrence:					
Occur Insp Start Date:					
Any Health Impact:					
Any Environmental Impact:					
Was Service Interrupted:					
Was Property Damaged:					
Operation Type Involved:					
Enforcement Policy:					
Prc Escalation Required:					
Task No:					
Notes:					
Occurrence Narrative:					
Tank Material Type:					
Tank Storage Type:					
Tank Location Type:					
Pump Flow Rate Capac:					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Liquid Prop Notes:					
73	1 of 1	SSW/85.2	79.4	ON	BORE
Borehole ID: 640526				Type: Borehole	
Use: Geotechnical/Geological Investigation				Status::	
Drill Method:: Power auger				UTM Zone:: 17	
Easting:: 613935				Northing:: 4821883	
Location Accuracy::				Orig. Ground Elev m:: 78.6	
Elev. Reliability Note::				DEM Ground Elev m:: 78.3	
Total Depth m:: 1.9				Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date:: APR-1966				Static Water Level:: -999.9	
Primary Water Use:: Not Used				Sec. Water Use::	
--Details--					
Stratum ID: 218492520				Top Depth(m): 0.0	
Bottom Depth(m): 0.3				Stratum Desc: SOIL.	
Stratum ID: 218492521				Top Depth(m): 0.3	
Bottom Depth(m): 0.6				Stratum Desc: SILT,CLAY,SAND. BROWN,ALLUVIAL,WET, AGE POST-GLACIAL.	
Stratum ID: 218492522				Top Depth(m): 0.6	
Bottom Depth(m): 1.9				Stratum Desc: CLAY,SAND,SILT, STONES. GREY,BROWN,FLUVIO-GLACIAL, MOIST,AGE GLACIAL.	
74	1 of 1	WNW/86.6	83.8	Mississauga ON	WWIS
Well ID: 7203870				Lot:	
Construction Date::				Concession:	
Primary Water Use:: Monitoring				Concession Name:	
Sec. Water Use::				Easting NAD83::	
Final Well Status:: Observation Wells				Northing NAD83::	
Specific Capacity::				Zone::	
Municipality: MISSISSAUGA CITY (PORT CREDIT)				UTM Reliability::	
County: PEEL					
Bore Hole Information					
--		--			
Bore Hole ID: 1004377476					
DP2BR:					
Code OB:					
Code OB Description:					
Open Hole:					
Date Completed: 07-MAY-13					
Remarks:					
Zone: 17					
East 83: 613605					
North 83: 4822336					
UTMRC: 3					
UTMRC Description: margin of error : 10 - 30 m					
Location Method: wwr					
Org CS: UTM83					
Elevation:					
Elevrc:					
Elevrc Description:					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Location Source Date:					
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					
--	--	--	--	--	--
Overburden and Bedrock Materials Interval					
--	--	--	--	--	--
Formation ID:		1004968954			
Layer:		1			
General Color:		BROWN			
Most Common Material:		SAND			
Other Materials:		GRAVEL			
Other Materials:		HARD			
Formation Top Depth:		0			
Formation End Depth:		8			
Formation End Depth UOM:		ft			
--	--	--	--	--	--
Formation ID:		1004968955			
Layer:		2			
General Color:		GREY			
Most Common Material:		SHALE			
Other Materials:		HARD			
Other Materials:					
Formation Top Depth:		8			
Formation End Depth:		20			
Formation End Depth UOM:		ft			
--	--	--	--	--	--
Annular Space/Abandonment Sealing Record					
--	--	--	--	--	--
Plug ID:		1004968962			
Layer:		1			
Plug From:		0			
Plug To:		8			
Plug Depth UOM:		ft			
--	--	--	--	--	--
Method of Construction & Well Use					
--	--	--	--	--	--
Method Construction ID:		1004968961			
Method Construction Code:		2			
Method Construction:		Rotary (Convent.)			
Other Method Construction:					
--	--	--	--	--	--
Pipe Information					
--	--	--	--	--	--
Pipe ID:		1004968953			
Casing Number:		0			
Comment:					
Alt Name:					
--	--	--	--	--	--
Construction Record - Casing					
--	--	--	--	--	--
Casing ID:		1004968958			
Layer:		1			
Open Hole or Material:		PLASTIC			
Depth From:		0			
Depth To:		10			
Casing Diameter:		2			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
--	--	--	--	--	--
--	--	--	--	--	--

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Construction Record - Screen					
--	--	--	--	--	--
Screen ID:		1004968959			
Layer:		1			
Slot:		10			
Screen Top Depth:		10			
Screen End Depth:		20			
Screen Material:		5			
Screen Depth UOM:		ft			
Screen Diameter UOM:		inch			
Screen Diameter:		2			
--	--	--	--	--	--
Hole Diameter		--			
--	--	--	--	--	--
Hole ID:		1004968956			
Diameter:		6			
Depth From:		0			
Depth To:		20			
Hole Depth UOM:		ft			
Hole Diameter UOM:		inch			
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--	--	--	--	--	--

75	1 of 1	SSW/87.0	80.1	ON	BORE
Borehole ID:	640742			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Power auger			UTM Zone::	17
Easting::	613855			Northing::	4821943
Location Accuracy::				Orig. Ground Elev m::	81.4
Elev. Reliability Note::				DEM Ground Elev m::	81
Total Depth m::	2.6			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	APR-1966			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
--Details--					
Stratum ID:	218493391			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	ASPHALT.
Stratum ID:	218493392			Top Depth(m):	0.1
Bottom Depth(m):	0.2			Stratum Desc:	FILL,GRAVEL,SAND, SILT.
Stratum ID:	218493393			Top Depth(m):	0.2
Bottom Depth(m):	2.0			Stratum Desc:	SAND-MEDIUM TO COARSE,SILT,CLAY. BROWN,ALLUVIAL,MOIST, AGE POST-GLACIAL.
Stratum ID:	218493394			Top Depth(m):	2.0
Bottom Depth(m):	2.6			Stratum Desc:	CLAY,SILT,SAND. BROWN,ALLUVIAL,MOIST, AGE POST-GLACIAL.

76	1 of 1	N/88.1	80.0	ON	BORE
Borehole ID:	647786			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Hand auger			UTM Zone::	17
Easting::	613940			Northing::	4822673
Location Accuracy::				Orig. Ground Elev m::	81.9

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Elev. Reliability Note::				DEM Ground Elev m::	81.6
Total Depth m::	1.8			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	AUG-1965			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
--Details--					
Stratum ID:	218520365			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	ASPHALT.
Stratum ID:	218520366			Top Depth(m):	0.1
Bottom Depth(m):	0.2			Stratum Desc:	STONES. GREY.
Stratum ID:	218520367			Top Depth(m):	0.2
Bottom Depth(m):	1.8			Stratum Desc:	SAND-MEDIUM,SILT, CLAY. YELLOW,GLACIAL,MOIST, AGE GLACIAL. R

<u>77</u>	1 of 1	W/88.8	84.8	ON	BORE
Borehole ID:		640763		Type:	Borehole
Use:		Geotechnical/Geological Investigation		Status::	
Drill Method::		Power auger		UTM Zone::	17
Easting::		613555		Northing::	4822273
Location Accuracy::				Orig. Ground Elev m::	84.3
Elev. Reliability Note::				DEM Ground Elev m::	84.4
Total Depth m::	2.4			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	NOV-1966			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
--Details--					
Stratum ID:	218493465			Top Depth(m):	0.0
Bottom Depth(m):	0.3			Stratum Desc:	FILL,SILT,SAND, GRAVEL. BROWN.
Stratum ID:	218493466			Top Depth(m):	0.3
Bottom Depth(m):	0.9			Stratum Desc:	SILT,CLAY,SAND. BROWN,LACUSTRINE,MOIST, LAMINATED,AGE GLACIAL.
Stratum ID:	218493467			Top Depth(m):	0.9
Bottom Depth(m):	2.3			Stratum Desc:	CLAY,SILT,SAND. BROWN,LACUSTRINE,AGE GLACIAL.
Stratum ID:	218493468			Top Depth(m):	2.3
Bottom Depth(m):	2.4			Stratum Desc:	CLAY,SILT,SAND. GREY,LACUSTRINE,AGE GLACIAL. AGE GLACIAL

<u>78</u>	1 of 1	W/89.5	83.8	Pelican (Lakeshore) Commercial Inc 321 Lakeshore Road West and 7 Maple Avenue South, Mississauga, Ontario, L5H 1G9 Mississauga ON L5H 1G9	RSC
Registration No:	64712				
RSC Type:					
Restoration Type:					
Date Submitted:	12-Nov-09				
Date Acknowledg.:					
Certification Date:	14-Aug-09				

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<div>Date Returned:</div> <div>Soil Type:</div> <div>Criteria:</div> <div>Current Property Use: Commercial</div> <div>Certificate Prop Use No: No CPU</div> <div>Intended Prop Use: Commercial</div> <div>Applicable Standards: Full Depth Site Conditions Standard, with Potable Ground Water, Medium/Fine Textured Soil, for Industrial/Commercial/Community property use</div> <div>Stratified (Y/N):</div> <div>Consultant:</div> <div>District Office: MISSISSAUGA</div> <div>Property Municipal Address: 321 Lakeshore Road West and 7 Maple Avenue South, Mississauga, Ontario, L5H 1G9</div> <div>Legal Description: PIN 13488-1137:LT 66 PL H22 PORT CREDIT; LT 67 PL H22 PORT CREDIT; LT 68 PL H22 PORT CREDIT; LT 69 PL H22 PORT CREDIT; LT 70 PL H22 PORT CREDIT; LT 71 PL H22 PORT CREDIT; BLK A PL H22 PORT CREDIT;PT LT 72 PL H22 PORT CREDIT; PT LT 73 PL H22 PORT CREDIT; PT LT 74 PL H22 PORT CREDIT; PT MAPLE AV PL H22 PORT CREDIT CLOSED BY BYLAW VS79035, PTS 1,3,5,7&8 43R6908; MISSISSAUGA and PIN 13488-1136: PT LT 72 PL H22 PORT CREDIT PT 2 43R6908; MISSISSAUGA</div> <div>Prop. Identification No: 13488-1137and 13488-1136</div> <div>Entire legal prop. (y/n): Yes</div> <div>UTM Coordinates: NAD83 17-613587-4822135</div> <div>Latitude & Longitude: 43.54352120N 79.59398820W (converted from UTM)</div> <div>Accuracy Estimate: 21 to 100 meters</div> <div>Measurement Method: Digitized from a satellite image</div> <div>CPU Issued Sect 1686: No</div>					
79	1 of 1	N/89.9	79.8	ON	BORE
<div>Borehole ID: 640710</div> <div>Use: Geotechnical/Geological Investigation</div> <div>Drill Method:: Power auger</div> <div>Easting:: 614080</div> <div>Location Accuracy::</div> <div>Elev. Reliability Note::</div> <div>Total Depth m:: 1.2</div> <div>Township::</div> <div>Lot::</div> <div>Completion Date:: AUG-1965</div> <div>Primary Water Use:: Not Used</div>		<div>Type: Borehole</div> <div>Status::</div> <div>UTM Zone:: 17</div> <div>Northing:: 4822633</div> <div>Orig. Ground Elev m:: 81.1</div> <div>DEM Ground Elev m:: 80.4</div> <div>Primary Name::</div> <div>Concession::</div> <div>Municipality:</div> <div>Static Water Level:: -999.9</div> <div>Sec. Water Use::</div>			
<div>--Details--</div> <div><div>Stratum ID: 218493265</div><div>Bottom Depth(m): 0.1</div><div>Top Depth(m): 0.0</div><div>Stratum Desc: ASPHALT.</div></div> <div><div>Stratum ID: 218493266</div><div>Bottom Depth(m): 0.2</div><div>Top Depth(m): 0.1</div><div>Stratum Desc: FILL,GRAVEL.</div></div> <div><div>Stratum ID: 218493267</div><div>Bottom Depth(m): 0.8</div><div>Top Depth(m): 0.2</div><div>Stratum Desc: TILL,SAND-MEDIUM, SILT,CLAY. BROWN,GLACIAL,AGE GLACIAL.</div></div> <div><div>Stratum ID: 218493268</div><div>Bottom Depth(m): 0.9</div><div>Top Depth(m): 0.8</div><div>Stratum Desc: SAND-MEDIUM TO COARSE,CLAY,SILT. LACUSTRINE,AGE GLACIAL.</div></div> <div><div>Stratum ID: 218493269</div><div>Bottom Depth(m): 1.2</div><div>Top Depth(m): 0.9</div><div>Stratum Desc: SAND-MEDIUM TO COARSE,SILT,CLAY. GREY,LACUSTRINE,AGE GLACIAL.</div></div>					
80	1 of 1	NE/89.9	77.9	Saddington Pk Dump (official) Mississauga ON L5H	ANDR

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Legal Description: Toronto Tp BF Location Description: Bay & Lake Municipality: Toronto Township Current Municipality: Mississauga City RM: Peel Region Facility: Dump Date Active: pre 1970 Date Begun: Date Complete: Area (Ha): Landfill Type: Group Name: Credit River Operated By: Serial: MOEE 7070 NTS: 30M12 Diameter (m):					
Historical Summary: <p>Saddington Park Landfill (official position) The MOEE lists a dump here with serial 7070 @UTM NAD27 614250--4822275 (Ontario Ministry of the Environment [1994] Waste disposal site inventory, [Toronto]: Ontario Environment, 1994., i, 196 pp., maps, ISBN 0772984093: 115). However, this datapoint does not appear to be located in Saddington Park. In fact it plots at the junction of Bay and John Sts, Port Credit, at least 100m from the nearest portion of Saddington Park. NTS topographic map evidence from 1951-85, based on air photos taken 1940-80 indicates that the MOEE datapoint location was built-up property 1940-80, making it unlikely to be a major landfill site during this period. 1951 NTS Map 30M12E Saddington Park is not marked, the MOEE datapoint position is built-up property. 1964 NTS Map 30M12E Saddington Park is not marked, the MOEE datapoint position is built-up property. 1974 Air Photomaps Sheet 7 The MOEE datapoint plots out within an established residential area, with no signs of any recent soil disturbance on site ([1974] Northway Air Survey Corporation Ltd., Toronto Region Air Photomaps YUML: G3524 T6 A4 4 1974). 1979 NTS Map 30M12 MOEE datapoint position is at the junction of Bay & John Sts. Saddington Park is shown elsewhere. 1985 NTS Map 30M12 J C Saddington Park is shown to extend via lakefilling completed since 1964 250m south of Lake St, Port Credit, some distance away from MOEE 7070 datapoint. Take a centroid on the centre of the lake filling @UTM NAD27 614400--4822250. Working conclusion The MOEE records dump site 7070 at this location, but it has so far eluded verification. There has to be a strong possibility that the MOEE datapoint for site 7070 is misplaced. A file has been created for the alternate position as ON MOEE 7070 (alt)</p>					
Waste Type: UTM X Nad 27: UTM Y Nad 27: UTM Zone:					
81	1 of 1	W/93.1	83.8	R.M. OF PEEL PINE AVE.N./LAKESHORE RD. MISSISSAUGA CITY ON	CA
Certificate #: 3-0778-96- Application Year: 96 Issue Date: 7/23/1996 Approval Type: Municipal sewage Status: Approved Application Type: Client Name:: Client Address:: Client City:: Client Postal Code:: Project Description:: Contaminants:: Emission Control::					
82	1 of 1	NW/95.0	80.8	85 High Street West Mississauga ON L5H 1K3	EHS
Postal Code: City: Address2:					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Address1: Provstate: Order No.: 20120718026 Addit. Info Ordered:: Report Date: 27-JUL-12 Report Type: Standard Report Search Radius (km): .25					
83	1 of 1	NNW/95.9	80.5	170 Lakeshore Drive West Mississauga ON	EHS
Postal Code: City: Address2: Address1: Provstate: Order No.: 20070503013 Addit. Info Ordered:: Fire Insur. Maps And /or Site Plans Report Date: 5/11/2007 Report Type: CAN - Complete Report Search Radius (km): 0.25					
84	1 of 1	NE/98.2	78.9	ON	BORE
Borehole ID: 640875 Use: Geotechnical/Geological Investigation Drill Method:: Power auger Easting:: 614215 Location Accuracy:: Elev. Reliability Note:: Total Depth m:: .9 Township:: Lot:: Completion Date:: AUG-1965 Primary Water Use:: Not Used Type: Borehole Status:: UTM Zone:: 17 Northing:: 4822543 Orig. Ground Elev m:: 79.6 DEM Ground Elev m:: 78.7 Primary Name:: Concession:: Municipality: Static Water Level:: -999.9 Sec. Water Use::					
--Details-- Stratum ID: 218493882 Bottom Depth(m): 0.0 Top Depth(m): 0.0 Stratum Desc: ASPHALT. Stratum ID: 218493883 Bottom Depth(m): 0.3 Top Depth(m): 0.0 Stratum Desc: FILL,GRAVEL. Stratum ID: 218493884 Bottom Depth(m): 0.5 Top Depth(m): 0.3 Stratum Desc: SAND-MEDIUM,SILT, CLAY. GREY,ALLUVIAL, AGE POST-GLACIAL. Stratum ID: 218493885 Bottom Depth(m): 0.9 Top Depth(m): 0.5 Stratum Desc: SAND-MEDIUM TO COARSE,SILT,CLAY. BROWN,ALLUVIAL, AGE POST-GLACIAL.					
85	1 of 1	WSW/100.1	83.8	MISSISSAUGA ON	WWIS
Well ID: 7132151 Construction Date:: Primary Water Use:: Sec. Water Use:: Final Well Status:: Abandoned-Other Lot: Concession: Concession Name: Easting NAD83:: Northing NAD83::					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Specific Capacity::				Zone::	
Municipality:	MISSISSAUGA CITY			UTM Reliability::	
County:	PEEL				
Bore Hole Information					
--	--				
Bore Hole ID:	1002749907				
DP2BR:					
Code OB:					
Code OB Description:					
Open Hole:					
Date Completed:	10-JUL-09				
Remarks:					
Zone:	17				
East 83:	613587				
North 83:	4822135				
UTMRC:	4				
UTMRC Description:	margin of error : 30 m - 100 m				
Location Method:	wwr				
Org CS:	UTM83				
Elevation:	83.23				
Elevrc:					
Elevrc Description:					
Location Source Date:					
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					
--	--				
Overburden and Bedrock Materials Interval					
--	--				
Formation ID:	1002935907				
Layer:	1				
General Color:					
Most Common Material:					
Other Materials:					
Other Materials:					
Formation Top Depth:	0				
Formation End Depth:	6				
Formation End Depth UOM:	m				
--	--				
Formation ID:	1002935908				
Layer:	2				
General Color:					
Most Common Material:					
Other Materials:					
Other Materials:					
Formation Top Depth:	6				
Formation End Depth:	6				
Formation End Depth UOM:	m				
--	--				
Formation ID:	1002935909				
Layer:	3				
General Color:					
Most Common Material:					
Other Materials:					
Other Materials:					
Formation Top Depth:	6				
Formation End Depth:	6				
Formation End Depth UOM:	m				
--	--				
Annular Space/Abandonment Sealing Record					
--	--				

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Plug ID:		1002935911			
Layer:		1			
Plug From:		0			
Plug To:		6			
Plug Depth UOM:		m			
--		--			
Method of Construction & Well Use					
--		--			
Method Construction ID:		1002935915			
Method Construction Code:					
Method Construction:					
Other Method Construction:					
--		--			
Pipe Information					
--		--			
Pipe ID:		1002935906			
Casing Number:		0			
Comment:					
Alt Name:					
--		--			
Construction Record - Casing					
--		--			
Casing ID:		1002935913			
Layer:					
Open Hole or Material:					
Depth From:					
Depth To:					
Casing Diameter:					
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
--		--			
--		--			
Construction Record - Screen					
--		--			
Screen ID:		1002935914			
Layer:					
Slot:					
Screen Top Depth:					
Screen End Depth:					
Screen Material:					
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:					
--		--			
Hole Diameter					
--		--			
Hole ID:		1002935910			
Diameter:					
Depth From:					
Depth To:					
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
--		--			
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86

1 of 1

W/100.8

84.8

Mississauga ON

WWIS

Well ID: 7225601
Construction Date::
Primary Water Use:: Monitoring and Test Hole
Sec. Water Use::
Final Well Status:: Monitoring and Test Hole
Specific Capacity::

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

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Municipality: County:	MISSISSAUGA CITY (PORT CREDIT) PEEL			UTM Reliability::	
Bore Hole Information					
--	--				
Bore Hole ID:	1005078896				
DP2BR:					
Code OB:					
Code OB Description:					
Open Hole:					
Date Completed:	03-JUL-14				
Remarks:					
Zone:	17				
East 83:	613561				
North 83:	4822302				
UTMRC:	4				
UTMRC Description:	margin of error : 30 m - 100 m				
Location Method:	wwr				
Org CS:	UTM83				
Elevation:					
Elevrc:					
Elevrc Description:					
Location Source Date:					
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					
--	--				
Overburden and Bedrock Materials Interval					
--	--				
Formation ID:	1005283219				
Layer:	1				
General Color:	BROWN				
Most Common Material:	SAND				
Other Materials:	SILT				
Other Materials:	DENSE				
Formation Top Depth:	0				
Formation End Depth:	15				
Formation End Depth UOM:	ft				
--	--				
Annular Space/Abandonment Sealing Record					
--	--				
Plug ID:	1005283227				
Layer:	1				
Plug From:	0				
Plug To:	9				
Plug Depth UOM:	ft				
--	--				
Method of Construction & Well Use					
--	--				
Method Construction ID:	1005283226				
Method Construction Code:	2				
Method Construction:	Rotary (Convent.)				
Other Method Construction:					
--	--				
Pipe Information					
--	--				
Pipe ID:	1005283218				
Casing Number:	0				
Comment:					
Alt Name:					
--	--				

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Construction Record - Casing					
--		--			
Casing ID:		1005283222			
Layer:		1			
Open Hole or Material:		PLASTIC			
Depth From:		0			
Depth To:		10			
Casing Diameter:		2			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
--		--			
--		--			
Construction Record - Screen					
--		--			
Screen ID:		1005283223			
Layer:		1			
Slot:		10			
Screen Top Depth:		10			
Screen End Depth:		15			
Screen Material:		5			
Screen Depth UOM:		ft			
Screen Diameter UOM:		inch			
Screen Diameter:		2.125			
--		--			
Water Details					
--		--			
Water ID:		1005283221			
Layer:		1			
Kind Code:		8			
Kind:		Untested			
Water Found Depth:					
Water Found Depth UOM:		ft			
--		--			
Hole Diameter					
--		--			
Hole ID:		1005283220			
Diameter:		8			
Depth From:		0			
Depth To:		15			
Hole Depth UOM:		ft			
Hole Diameter UOM:		inch			
--		--			
--		--			
87	1 of 1	SSW/101.5	80.5	ON	BORE
Borehole ID: 640743					
Use: Geotechnical/Geological Investigation					
Drill Method:: Power auger					
Easting:: 613825					
Location Accuracy::					
Elev. Reliability Note::					
Total Depth m:: 1.4					
Township::					
Lot::					
Completion Date:: APR-1966					
Primary Water Use:: Not Used					
Type: Borehole					
Status::					
UTM Zone:: 17					
Northing:: 4821948					
Orig. Ground Elev m:: 81.7					
DEM Ground Elev m:: 80.7					
Primary Name::					
Concession::					
Municipality:					
Static Water Level:: -999.9					
Sec. Water Use::					
--Details--					
Stratum ID: 218493395					
Bottom Depth(m): 0.1					
Top Depth(m): 0.0					
Stratum Desc: ASPHALT.					
Stratum ID: 218493396					
Top Depth(m): 0.1					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Bottom Depth(m):	0.1			Stratum Desc:	FILL, GRAVEL, SAND, SILT.
Stratum ID:	218493397			Top Depth(m):	0.1
Bottom Depth(m):	1.4			Stratum Desc:	SILT, SAND, CLAY. BROWN, MOIST, AGE POST-GLACIAL. IST,
88	1 of 1	NNE/102.7	79.8	ON	BORE
Borehole ID:	640726			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Power auger			UTM Zone::	17
Easting::	614115			Northing::	4822623
Location Accuracy::				Orig. Ground Elev m::	80.6
Elev. Reliability Note::				DEM Ground Elev m::	80.1
Total Depth m::	1.1			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	AUG-1965			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
--Details--					
Stratum ID:	218493331			Top Depth(m):	0.0
Bottom Depth(m):	0.0			Stratum Desc:	ASPHALT.
Stratum ID:	218493332			Top Depth(m):	0.0
Bottom Depth(m):	0.2			Stratum Desc:	FILL, GRAVEL.
Stratum ID:	218493333			Top Depth(m):	0.2
Bottom Depth(m):	0.5			Stratum Desc:	SAND-MEDIUM TO COARSE, SILT, CLAY. BROWN, ALLUVIAL, AGE POST-GLACIAL.
Stratum ID:	218493334			Top Depth(m):	0.5
Bottom Depth(m):	1.1			Stratum Desc:	SAND-MEDIUM, SILT, CLAY. ALLUVIAL, WET, AGE POST-GLACIAL. AY, SILT,
89	1 of 1	NE/105.6	77.8	ON	BORE
Borehole ID:	640874			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Power auger			UTM Zone::	17
Easting::	614295			Northing::	4822493
Location Accuracy::				Orig. Ground Elev m::	78.3
Elev. Reliability Note::				DEM Ground Elev m::	78
Total Depth m::	.6			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	AUG-1965			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
--Details--					
Stratum ID:	218493879			Top Depth(m):	0.0
Bottom Depth(m):	0.0			Stratum Desc:	ASPHALT.
Stratum ID:	218493880			Top Depth(m):	0.0
Bottom Depth(m):	0.3			Stratum Desc:	FILL, GRAVEL.
Stratum ID:	218493881			Top Depth(m):	0.3
Bottom Depth(m):	0.6			Stratum Desc:	SAND-MEDIUM, CLAY, SILT. ALLUVIAL, AGE

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
POST-GLACIAL.					
90	1 of 2	S/105.6	78.0	The Regional Municipality of Peel 65 Ben Machree Dr Mississauga ON	CA
Certificate #: Application Year: Issue Date: Approval Type: Status: Application Type: Client Name:: Client Address:: Client City:: Client Postal Code:: Project Description:: Contaminants:: Emission Control::		1162-7GEKJ2 2008 9/24/2008 Air Approved 			
90	2 of 2	S/105.6	78.0	The Regional Municipality of Peel 65 Ben Machree Dr Mississauga ON	CA
Certificate #: Application Year: Issue Date: Approval Type: Status: Application Type: Client Name:: Client Address:: Client City:: Client Postal Code:: Project Description:: Contaminants:: Emission Control::		1425-7GCQJS 2008 7/11/2008 Municipal and Private Sewage Works Approved 			
91	1 of 1	NNE/106.4	78.8	ON	BORE
Borehole ID: Use: Drill Method:: Easting:: Location Accuracy:: Elev. Reliability Note:: Total Depth m:: Township:: Lot:: Completion Date:: Primary Water Use::		640876 Geotechnical/Geological Investigation Power auger 614175 .9 AUG-1965 Not Used		Type: Status:: UTM Zone:: Northing:: Orig. Ground Elev m:: DEM Ground Elev m:: Primary Name:: Concession:: Municipality: Static Water Level:: Sec. Water Use::	
--Details-- Stratum ID: Bottom Depth(m):		218493886 0.0		Top Depth(m): Stratum Desc:	
Stratum ID: Bottom Depth(m):		218493887 0.2		Top Depth(m): Stratum Desc:	
				0.0 ASPHALT. 0.0 FILL, GRAVEL, SAND, SILT.	

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Stratum ID: Bottom Depth(m):	218493888 0.9			Top Depth(m): Stratum Desc:	0.2 SAND-MEDIUM,SILT, CLAY. BROWN,ALLUVIAL, AGE POST-GLACIAL. CO
92	1 of 1	W/108.0	83.9	ON	BORE
Borehole ID: Use: Drill Method:: Easting:: Location Accuracy:: Elev. Reliability Note:: Total Depth m:: Township:: Lot:: Completion Date:: Primary Water Use::	640516 Geotechnical/Geological Investigation Power auger 613545 -999 NOV-1966 Not Used			Type: Status:: UTM Zone:: Northing:: Orig. Ground Elev m:: DEM Ground Elev m:: Primary Name:: Concession:: Municipality: Static Water Level:: Sec. Water Use::	Borehole 17 4822163 84 83.7 -999.9
--Details-- Stratum ID: Bottom Depth(m):	218492487			Top Depth(m): Stratum Desc:	0.0 FILL,CLAY,STONES, SILT. SAND
93	1 of 1	WSW/110.3	83.8	MISSISSAUGA ON	WWIS
Well ID: Construction Date:: Primary Water Use:: Sec. Water Use:: Final Well Status:: Specific Capacity:: Municipality: County:	7102021 Test Hole MISSISSAUGA CITY PEEL			Lot: Concession: Concession Name: Easting NAD83:: Northing NAD83:: Zone:: UTM Reliability::	
Bore Hole Information --	--				
Bore Hole ID: DP2BR: Code OB: Code OB Description: Open Hole: Date Completed: Remarks: Zone: East 83: North 83: UTMRC: UTMRC Description: Location Method: Org CS: Elevation: Elevrc: Elevrc Description: Location Source Date: Source Revision Comment: Improvement Location Source: Improvement Location Method: Supplier Comment: Spatial Status:	1001505470 27-JAN-08 17 613559 4822144 3 margin of error : 10 - 30 m wwr UTM83 83.46 --				

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Overburden and Bedrock Materials Interval					
--	--	--	--	--	--
Formation ID:		1001558748			
Layer:		1			
General Color:		BLACK			
Most Common Material:		GRAVEL			
Other Materials:		SAND			
Other Materials:		LOOSE			
Formation Top Depth:		0			
Formation End Depth:		.61			
Formation End Depth UOM:		m			
--	--	--	--	--	--
Formation ID:		1001558749			
Layer:		2			
General Color:		BROWN			
Most Common Material:		SAND			
Other Materials:		TILL			
Other Materials:		DENSE			
Formation Top Depth:		.61			
Formation End Depth:		1.83			
Formation End Depth UOM:		m			
--	--	--	--	--	--
Formation ID:		1001558750			
Layer:		3			
General Color:		GREY			
Most Common Material:		SHALE			
Other Materials:					
Other Materials:		HARD			
Formation Top Depth:		1.83			
Formation End Depth:		3.35			
Formation End Depth UOM:		m			
--	--	--	--	--	--
Annular Space/Abandonment Sealing Record					
--	--	--	--	--	--
Plug ID:		1001558752			
Layer:		1			
Plug From:		0			
Plug To:		.31			
Plug Depth UOM:		m			
--	--	--	--	--	--
Plug ID:		1001558753			
Layer:		2			
Plug From:		.31			
Plug To:		1.5			
Plug Depth UOM:		m			
--	--	--	--	--	--
Plug ID:		1001558754			
Layer:		3			
Plug From:		1.5			
Plug To:		3.35			
Plug Depth UOM:		m			
--	--	--	--	--	--
Method of Construction & Well Use					
--	--	--	--	--	--
Method Construction ID:		1001558758			
Method Construction Code:		9			
Method Construction:		Driving			
Other Method Construction:					
--	--	--	--	--	--
Pipe Information					
--	--	--	--	--	--
Pipe ID:		1001558746			
Casing Number:		0			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Comment:					
Alt Name:					
--		--			
Construction Record - Casing					
--		--			
Casing ID:		1001558756			
Layer:					
Open Hole or Material:		PLASTIC			
Depth From:					
Depth To:		1.83			
Casing Diameter:		.04			
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
--		--			
--		--			
Construction Record - Screen					
--		--			
Screen ID:		1001558757			
Layer:					
Slot:					
Screen Top Depth:					
Screen End Depth:					
Screen Material:		5			
Screen Depth UOM:					
Screen Diameter UOM:					
Screen Diameter:		--			
--		--			
Well Yield Testing					
--		--			
Pump Test ID:		1001558747			
Pump Set At:					
Static Level:					
Final Level After Pumping:					
Recommended Pump Depth:					
Pumping Rate:					
Flowing Rate:					
Recommended Pump Rate:					
Levels UOM:		m			
Rate UOM:		LPM			
Water State After Test Code:		0			
Water State After Test:					
Pumping Test Method:		0			
Pumping Duration HR:					
Pumping Duration MIN:					
Flowing:		N			
--		--			
Hole Diameter					
--		--			
Hole ID:		1001558751			
Diameter:		10.92			
Depth From:					
Depth To:		3.35			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
--		--			
--		--			
94	1 of 4	WSW/110.6	83.8	Salameh Drugs Ltd. 321 LAKESHORE ROAD WEST Mississauga ON	GEN
PO Box Num:					
Status:					
Country:					
Generator #:		ON4945923			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Approval Yrs:: SIC Code: SIC Description:		As of May 2015			
<u>--Details--</u> Waste Code: Waste Description:		312 Pathological wastes			
94	2 of 4	WSW/110.6	83.8	Tracy Ferrier 321 Lakeshore Road Wes Mississauga ON L5H 1G9	GEN
PO Box Num: Status: Country: Generator #: Approval Yrs:: SIC Code: SIC Description:		ON9768479 2009 531111 Lessors of Residential Buildings and Dwellings (except Social Housing Projects)			
<u>--Details--</u> Waste Code: Waste Description:		221 LIGHT FUELS			
Waste Code: Waste Description:		243 PCBS			
Waste Code: Waste Description:		251 OIL SKIMMINGS & SLUDGES			
Waste Code: Waste Description:		252 WASTE OILS & LUBRICANTS			
94	3 of 4	WSW/110.6	83.8	Salameh Drugs Ltd. 321 LAKESHORE ROAD WEST Mississauga ON L5H 1G9	GEN
PO Box Num: Status: Country: Generator #: Approval Yrs:: SIC Code: SIC Description:		Registered Canada ON4945923 As of Sep 2016			
<u>--Details--</u> Waste Code: Waste Description:		261 A Pharmaceuticals			
Waste Code: Waste Description:		312 P Pathological wastes			
94	4 of 4	WSW/110.6	83.8	Canadian Wiping Cloth Company 321 Lakeshore Rd W Mississauga ON L5H 1G9	SCT
Established: Plant Size (ft²):		01-JAN-92 5000			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Employment:					
--Details--					
Description:		Industrial Machinery, Equipment and Supplies Wholesaler-Distributors			
SIC/NAICS Code:		417230			
Description:		Piece Goods, Notions and Other Dry Goods Wholesaler-Distributors			
SIC/NAICS Code:		414130			
Description:		Industrial Machinery, Equipment and Supplies Wholesaler-Distributors			
SIC/NAICS Code:		417230			
95	1 of 1	N/111.0	79.8	ON	BORE
Borehole ID:	640727			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Power auger			UTM Zone::	17
Easting::	614075			Northing::	4822663
Location Accuracy::				Orig. Ground Elev m::	81.2
Elev. Reliability Note::				DEM Ground Elev m::	80.5
Total Depth m::	.9			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	AUG-1965			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
--Details--					
Stratum ID:	218493338			Top Depth(m):	0.6
Bottom Depth(m):	0.9			Stratum Desc:	SAND-MEDIUM TO COARSE,SILT,CLAY. BROWN,ALLUVIAL, AGE POST-GLACIAL. CIAL.
Stratum ID:	218493335			Top Depth(m):	0.0
Bottom Depth(m):	0.0			Stratum Desc:	ASPHALT.
Stratum ID:	218493336			Top Depth(m):	0.0
Bottom Depth(m):	0.2			Stratum Desc:	FILL,GRAVEL.
Stratum ID:	218493337			Top Depth(m):	0.2
Bottom Depth(m):	0.6			Stratum Desc:	SOIL,SAND-MEDIUM TO COARSE,SILT,CLAY. BLACK.
96	1 of 1	WNW/111.4	82.8	Mississauga ON	WWIS
Well ID:	7203871			Lot:	
Construction Date::				Concession:	
Primary Water Use::	Monitoring			Concession Name:	
Sec. Water Use::				Easting NAD83::	
Final Well Status::	Observation Wells			Northing NAD83::	
Specific Capacity::				Zone::	
Municipality:	MISSISSAUGA CITY (PORT CREDIT)			UTM Reliability::	
County:	PEEL				
Bore Hole Information					
--	--				
Bore Hole ID:	1004377479				
DP2BR:					
Code OB:					
Code OB Description:					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Open Hole:					
Date Completed:		07-MAY-13			
Remarks:					
Zone:		17			
East 83:		613629			
North 83:		4822408			
UTMRC:		3			
UTMRC Description:		margin of error : 10 - 30 m			
Location Method:		wwr			
Org CS:		UTM83			
Elevation:					
Elevrc:					
Elevrc Description:					
Location Source Date:					
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					
--		--			
Overburden and Bedrock Materials Interval					
--		--			
Formation ID:		1004968999			
Layer:		1			
General Color:		BROWN			
Most Common Material:		SAND			
Other Materials:		GRAVEL			
Other Materials:		HARD			
Formation Top Depth:		0			
Formation End Depth:		7.5			
Formation End Depth UOM:		ft			
--		--			
Formation ID:		1004969000			
Layer:		2			
General Color:		GREY			
Most Common Material:		SHALE			
Other Materials:		HARD			
Other Materials:					
Formation Top Depth:		7.5			
Formation End Depth:		40			
Formation End Depth UOM:		ft			
--		--			
Annular Space/Abandonment Sealing Record					
--		--			
Plug ID:		1004969007			
Layer:		1			
Plug From:		0			
Plug To:		28			
Plug Depth UOM:		ft			
--		--			
Method of Construction & Well Use					
--		--			
Method Construction ID:		1004969006			
Method Construction Code:		2			
Method Construction:		Rotary (Convent.)			
Other Method Construction:					
--		--			
Pipe Information					
--		--			
Pipe ID:		1004968998			
Casing Number:		0			
Comment:					
Alt Name:					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
--		--			
Construction Record - Casing					
--		--			
Casing ID:		1004969003			
Layer:		1			
Open Hole or Material:		PLASTIC			
Depth From:		0			
Depth To:		20			
Casing Diameter:		2			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
--		--			
--		--			
Construction Record - Screen					
--		--			
Screen ID:		1004969004			
Layer:		1			
Slot:		10			
Screen Top Depth:		0			
Screen End Depth:		40			
Screen Material:		5			
Screen Depth UOM:		ft			
Screen Diameter UOM:		inch			
Screen Diameter:		2			
--		--			
Hole Diameter					
--		--			
Hole ID:		1004969001			
Diameter:		6			
Depth From:		0			
Depth To:		40			
Hole Depth UOM:		ft			
Hole Diameter UOM:		inch			
--		--			
--		--			

97	1 of 1	NNW/111.7	81.8	ON	BORE
Borehole ID: 640578					
Use: Geotechnical/Geological Investigation					
Drill Method:: Power auger					
Easting:: 613790					
Location Accuracy::					
Elev. Reliability Note::					
Total Depth m:: 2.9					
Township::					
Lot::					
Completion Date:: AUG-1965					
Primary Water Use:: Not Used					
Type: Borehole					
Status::					
UTM Zone:: 17					
Northing:: 4822623					
Orig. Ground Elev m:: 83					
DEM Ground Elev m:: 83.1					
Primary Name::					
Concession::					
Municipality:					
Static Water Level:: -999.9					
Sec. Water Use::					
--Details--					
Stratum ID: 218492738					
Bottom Depth(m): 0.1					
Top Depth(m): 0.0					
Stratum Desc: ASPHALT.					
Stratum ID: 218492739					
Bottom Depth(m): 0.2					
Top Depth(m): 0.1					
Stratum Desc: FILL,STONES.					
Stratum ID: 218492740					
Bottom Depth(m): 0.9					
Top Depth(m): 0.2					
Stratum Desc: SAND-MEDIUM TO COARSE,SILT,CLAY. ALLUVIAL,AGE POST-GLACIAL.					
Stratum ID: 218492741					
Bottom Depth(m): 2.1					
Top Depth(m): 0.9					
Stratum Desc: SAND-MEDIUM TO COARSE,SILT,CLAY.					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
					GREY,ALLUVIAL, AGE POST-GLACIAL.
Stratum ID:	218492742			Top Depth(m):	2.1
Bottom Depth(m):	2.9			Stratum Desc:	SILT,SAND,CLAY. GREY,FLUVIO-GLACIAL, AGE GLACIAL. T
98	1 of 1	WNW/112.8	82.8	Mississauga ON	WWIS
Well ID:	7203865			Lot:	
Construction Date::				Concession:	
Primary Water Use::	Monitoring			Concession Name:	
Sec. Water Use::				Easting NAD83::	
Final Well Status::	Observation Wells			Northing NAD83::	
Specific Capacity::				Zone::	
Municipality:	MISSISSAUGA CITY (PORT CREDIT)			UTM Reliability::	
County:	PEEL				
Bore Hole Information					
--	--				
Bore Hole ID:	1004377422				
DP2BR:					
Code OB:					
Code OB Description:					
Open Hole:					
Date Completed:	06-MAY-13				
Remarks:					
Zone:	17				
East 83:	613628				
North 83:	4822409				
UTMRC:	3				
UTMRC Description:	margin of error : 10 - 30 m				
Location Method:	wwr				
Org CS:	UTM83				
Elevation:					
Elevrc:					
Elevrc Description:					
Location Source Date:					
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					
--	--				
Overburden and Bedrock Materials Interval					
--	--				
Formation ID:	1004968695				
Layer:	1				
General Color:	BROWN				
Most Common Material:	SAND				
Other Materials:	GRANITE				
Other Materials:	HARD				
Formation Top Depth:	0				
Formation End Depth:	7				
Formation End Depth UOM:	ft				
--	--				
Formation ID:	1004968696				
Layer:	2				
General Color:	GREY				
Most Common Material:	SHALE				
Other Materials:	HARD				
Other Materials:					
Formation Top Depth:	7				

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Formation End Depth:	20				
Formation End Depth UOM:	ft				
--	--				
Annular Space/Abandonment Sealing Record					
--	--				
Plug ID:	1004968703				
Layer:	1				
Plug From:	0				
Plug To:	8				
Plug Depth UOM:	ft				
--	--				
Method of Construction & Well Use					
--	--				
Method Construction ID:	1004968702				
Method Construction Code:	2				
Method Construction:	Rotary (Convent.)				
Other Method Construction:					
--	--				
Pipe Information					
--	--				
Pipe ID:	1004968694				
Casing Number:	0				
Comment:					
Alt Name:					
--	--				
Construction Record - Casing					
--	--				
Casing ID:	1004968699				
Layer:	1				
Open Hole or Material:	PLASTIC				
Depth From:	0				
Depth To:	10				
Casing Diameter:	2				
Casing Diameter UOM:	inch				
Casing Depth UOM:	ft				
--	--				
--	--				
Construction Record - Screen					
--	--				
Screen ID:	1004968700				
Layer:	1				
Slot:	10				
Screen Top Depth:	10				
Screen End Depth:	20				
Screen Material:	5				
Screen Depth UOM:	ft				
Screen Diameter UOM:	inch				
Screen Diameter:	2				
--	--				
Hole Diameter					
--	--				
Hole ID:	1004968697				
Diameter:	6				
Depth From:	0				
Depth To:	20				
Hole Depth UOM:	ft				
Hole Diameter UOM:	inch				
--	--				
--	--				

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Well ID:	7203867			Lot:	
Construction Date::				Concession:	
Primary Water Use::	Monitoring			Concession Name:	
Sec. Water Use::				Easting NAD83::	
Final Well Status::	Observation Wells			Northing NAD83::	
Specific Capacity::				Zone::	
Municipality:	MISSISSAUGA CITY (PORT CREDIT)			UTM Reliability::	
County:	PEEL				
Bore Hole Information					
--	--				
Bore Hole ID:	1004377428				
DP2BR:					
Code OB:					
Code OB Description:					
Open Hole:					
Date Completed:	06-MAY-13				
Remarks:					
Zone:	17				
East 83:	613595				
North 83:	4822367				
UTMRC:	4				
UTMRC Description:	margin of error : 30 m - 100 m				
Location Method:	wwr				
Org CS:	UTM83				
Elevation:					
Elevrc:					
Elevrc Description:					
Location Source Date:					
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					
--	--				
Overburden and Bedrock					
Materials Interval					
--	--				
Formation ID:	1004968818				
Layer:	1				
General Color:	BROWN				
Most Common Material:	SAND				
Other Materials:	SILT				
Other Materials:	GRAVEL				
Formation Top Depth:	0				
Formation End Depth:	7				
Formation End Depth UOM:	ft				
--	--				
Formation ID:	1004968819				
Layer:	2				
General Color:	GREY				
Most Common Material:	SHALE				
Other Materials:					
Other Materials:	HARD				
Formation Top Depth:	7				
Formation End Depth:	20				
Formation End Depth UOM:	ft				
--	--				
Annular Space/Abandonment					
Sealing Record					
--	--				
Plug ID:	1004968837				
Layer:	1				
Plug From:	0				
Plug To:	8				
Plug Depth UOM:	ft				

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
--		--			
Method of Construction & Well Use					
--		--			
Method Construction ID:		1004968827			
Method Construction Code:		2			
Method Construction:		Rotary (Convent.)			
Other Method Construction:					
--		--			
Pipe Information					
--		--			
Pipe ID:		1004968817			
Casing Number:		0			
Comment:					
Alt Name:					
--		--			
Construction Record - Casing					
--		--			
Casing ID:		1004968822			
Layer:		1			
Open Hole or Material:		PLASTIC			
Depth From:		0			
Depth To:		10			
Casing Diameter:		2			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
--		--			
--		--			
Construction Record - Screen					
--		--			
Screen ID:		1004968823			
Layer:		1			
Slot:		10			
Screen Top Depth:		10			
Screen End Depth:		20			
Screen Material:		5			
Screen Depth UOM:		ft			
Screen Diameter UOM:		inch			
Screen Diameter:		2			
--		--			
Hole Diameter					
--		--			
Hole ID:		1004968820			
Diameter:		6			
Depth From:		0			
Depth To:		20			
Hole Depth UOM:		ft			
Hole Diameter UOM:		inch			
--		--			
--		--			

[100](#)

1 of 1

NW/115.4

81.7

Bell
80 High St
Mississauga ON

GEN

PO Box Num:

Status:

Country:

Generator #: ON8534293

Approval Yrs:: As of April 2014

SIC Code:

SIC Description:

--Details--

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<hr/>					
Waste Code:		251			
Waste Description:		Waste oils/sludges (petroleum based)			
Waste Code:		221			
Waste Description:		Light fuels			
<hr/>					
101	1 of 1	SW/116.5	80.8	ON	BORE
Borehole ID:	640744			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Power auger			UTM Zone::	17
Easting::	613775			Northing::	4821968
Location Accuracy::				Orig. Ground Elev m::	82
Elev. Reliability Note::				DEM Ground Elev m::	81.7
Total Depth m::	1.8			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	APR-1966			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
<hr/>					
--Details--					
Stratum ID:	218493398			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	ASPHALT.
Stratum ID:	218493399			Top Depth(m):	0.1
Bottom Depth(m):	0.1			Stratum Desc:	FILL,GRAVEL,SAND, SILT.
Stratum ID:	218493400			Top Depth(m):	0.1
Bottom Depth(m):	1.2			Stratum Desc:	SAND-MEDIUM TO COARSE,SILT,CLAY. BROWN,ALLUVIAL,MOIST, AGE POST-GLACIAL.
Stratum ID:	218493401			Top Depth(m):	1.2
Bottom Depth(m):	1.8			Stratum Desc:	SILT,SAND,CLAY. BROWN,ALLUVIAL,MOIST, AGE POST-GLACIAL.
<hr/>					
102	1 of 1	N/116.9	79.8	ON	BORE
Borehole ID:	640728			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Power auger			UTM Zone::	17
Easting::	614025			Northing::	4822703
Location Accuracy::				Orig. Ground Elev m::	81.2
Elev. Reliability Note::				DEM Ground Elev m::	80.6
Total Depth m::	1.2			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	AUG-1965			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
<hr/>					
--Details--					
Stratum ID:	218493339			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	ASPHALT,GRAVEL.
Stratum ID:	218493340			Top Depth(m):	0.1
Bottom Depth(m):	0.2			Stratum Desc:	FILL,GRAVEL,SAND, SILT.
Stratum ID:	218493341			Top Depth(m):	0.2
Bottom Depth(m):	0.6			Stratum Desc:	SOIL,SAND-MEDIUM TO

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
					COARSE,SILT,CLAY. BLACK.
Stratum ID:	218493342			Top Depth(m):	0.6
Bottom Depth(m):	1.2			Stratum Desc:	SAND-MEDIUM TO COARSE,SILT,CLAY. BROWN,AGE POST-GLACIAL.
103	1 of 1	NW/120.6	81.3	ON	BORE
Borehole ID:	640610			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Power auger			UTM Zone::	17
Easting::	613725			Northing::	4822548
Location Accuracy::				Orig. Ground Elev m::	81.3
Elev. Reliability Note::				DEM Ground Elev m::	81.1
Total Depth m::	2			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	AUG-1965			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
--Details--					
Stratum ID:	218492868			Top Depth(m):	0.0
Bottom Depth(m):	0.0			Stratum Desc:	ASPHALT.
Stratum ID:	218492869			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	FILL,STONES.
Stratum ID:	218492870			Top Depth(m):	0.1
Bottom Depth(m):	2.0			Stratum Desc:	SAND,SILT,CLAY. ALLUVIAL,AGE POST-GLACIAL.
Stratum ID:	218492871			Top Depth(m):	2.0
Bottom Depth(m):	2.0			Stratum Desc:	SAND-MEDIUM TO COARSE,SILT,CLAY. GREY,ALLUVIAL, AGE POST-GLACIAL.
104	1 of 3	NW/123.1	80.8	SHOPPERS DRUGMART 228 LAKESHORE ROAD WEST MISSISSAUGA ON L5H 1G6	GEN
PO Box Num:					
Status:					
Country:					
Generator #:	ON2530750				
Approval Yrs::	00,01				
SIC Code:	6031				
SIC Description:	PHARMACIES				
--Details--					
Waste Code:	261				
Waste Description:	PHARMACEUTICALS				
Waste Code:	312				
Waste Description:	PATHOLOGICAL WASTES				
104	2 of 3	NW/123.1	80.8	Lewis International Shipping 228 Lakeshore Rd W Mississauga ON L5H 4L1	SCT

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Established: Plant Size (ft²): Employment:		01-SEP-92 1000			
--Details--					
Description:		Wholesale Trade Agents and Brokers			
SIC/NAICS Code:		419120			
Description:		General Freight Trucking, Long Distance, Truck-Load			
SIC/NAICS Code:		484121			
Description:		General Freight Trucking, Local			
SIC/NAICS Code:		484110			
Description:		Deep Sea, Coastal and Great Lakes Water Transportation (except by Ferries)			
SIC/NAICS Code:		483115			
104	3 of 3	NW/123.1	80.8	Advantage Wmq Inc. 228 Lakeshore Rd W Unit 59502 Mississauga ON L5H 1G6	SCT
Established: Plant Size (ft²): Employment:					
--Details--					
Description:		Industrial Machinery, Equipment and Supplies Wholesaler-Distributors			
SIC/NAICS Code:		417230			
Description:		Industrial Machinery, Equipment and Supplies Wholesaler-Distributors			
SIC/NAICS Code:		417230			
105	1 of 1	N/123.2	79.8	ON	BORE
Borehole ID:		647785		Type:	Borehole
Use:		Geotechnical/Geological Investigation		Status::	
Drill Method::		Hand auger		UTM Zone::	17
Easting::		613980		Northing::	4822718
Location Accuracy::				Orig. Ground Elev m::	81.7
Elev. Reliability Note::				DEM Ground Elev m::	80.7
Total Depth m::		1.2		Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::		AUG-1965		Static Water Level::	-999.9
Primary Water Use::		Not Used		Sec. Water Use::	
--Details--					
Stratum ID:		218520360		Top Depth(m):	0.0
Bottom Depth(m):		0.1		Stratum Desc:	ASPHALT.
Stratum ID:		218520361		Top Depth(m):	0.1
Bottom Depth(m):		0.3		Stratum Desc:	SAND-MEDIUM,SILT, CLAY,STONES. BROWN,GLACIAL,AGE GLACIAL.
Stratum ID:		218520362		Top Depth(m):	0.3
Bottom Depth(m):		0.6		Stratum Desc:	SAND-MEDIUM,CLAY. BROWN,GLACIAL,AGE GLACIAL.
Stratum ID:		218520363		Top Depth(m):	0.6

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Bottom Depth(m):	0.7			Stratum Desc:	SAND,SILT,CLAY, ORGANIC. BLACK,GLACIAL,AGE GLACIAL.
Stratum ID:	218520364			Top Depth(m):	0.7
Bottom Depth(m):	1.2			Stratum Desc:	SAND-MEDIUM TO COARSE. GLACIAL,AGE GLACIAL.
106	1 of 1	NW/126.1	81.8	ON	BORE
Borehole ID:	640609			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Power auger			UTM Zone::	17
Easting::	613745			Northing::	4822583
Location Accuracy::				Orig. Ground Elev m::	82.8
Elev. Reliability Note::				DEM Ground Elev m::	82.7
Total Depth m::	1.2			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	AUG-1965			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
--Details--					
Stratum ID:	218492865			Top Depth(m):	0.0
Bottom Depth(m):	0.0			Stratum Desc:	ASPHALT.
Stratum ID:	218492866			Top Depth(m):	0.0
Bottom Depth(m):	0.2			Stratum Desc:	FILL,GRAVEL,SAND, SILT.
Stratum ID:	218492867			Top Depth(m):	0.2
Bottom Depth(m):	1.2			Stratum Desc:	SAND-MEDIUM TO COARSE,SILT,CLAY. BROWN,ALLUVIAL, AGE POST-GLACIAL. GR
107	1 of 1	NNW/127.1	81.8	ON	BORE
Borehole ID:	640608			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Power auger			UTM Zone::	17
Easting::	613775			Northing::	4822628
Location Accuracy::				Orig. Ground Elev m::	82.9
Elev. Reliability Note::				DEM Ground Elev m::	83.5
Total Depth m::	1.2			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	AUG-1965			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
--Details--					
Stratum ID:	218492860			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	ASPHALT.
Stratum ID:	218492861			Top Depth(m):	0.1
Bottom Depth(m):	0.2			Stratum Desc:	FILL,GRAVEL.
Stratum ID:	218492862			Top Depth(m):	0.2
Bottom Depth(m):	0.7			Stratum Desc:	SAND-MEDIUM TO COARSE,SILT,CLAY. FLUVIO-GLACIAL,AGE GLACIAL.
Stratum ID:	218492863			Top Depth(m):	0.7
Bottom Depth(m):	0.8			Stratum Desc:	TILL,SAND,CLAY,SILT.GREY,GLACIAL,AGE

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
GLACIAL.					
Stratum ID:	218492864			Top Depth(m):	0.8
Bottom Depth(m):	1.2			Stratum Desc:	SAND-MEDIUM TO COARSE,SILT,CLAY. FLUVIO-GLACIAL,AGE GLACIAL. GLACIAL.
108	1 of 1	NW/127.8	81.9	R.M. OF PEEL HIGH ST./WESLEY CRES. MISSISSAUGA CITY ON	CA
Certificate #: 3-0163-94- Application Year: 94 Issue Date: 3/8/1994 Approval Type: Municipal sewage Status: Approved Application Type: Client Name:: Client Address:: Client City:: Client Postal Code:: Project Description:: Contaminants:: Emission Control::					
109	1 of 1	N/128.0	79.8	TRANSPORT TRUCK LAKESHORE RD & PETER ST. SOUTH MOTOR VEHICLE (OPERATING FLUID) MISSISSAUGA CITY ON	SPL
Ref No: 129338 Contaminant Code: Contaminant Name: Contaminant Quantity: Incident Cause: OTHER CONTAINER LEAK Incident Dt: 7/17/1996 Incident Reason: EQUIPMENT FAILURE Incident Summary: H & H CARTAGE -10L DIESELFROM SADDLE TANKS ONTO ROAD & C.BASIN. CLEANED MOE Reported Dt: 7/17/1996 Environmental Impact: NOT ANTICIPATED Nature of Impact: Receiving Medium: LAND SAC Action Class: Sector Source Type: Receiving Environment: Incident Event: Site Municipality: 21102					
110	1 of 1	W/128.8	84.8	ON	BORE
Borehole ID: 640764 Use: Geotechnical/Geological Investigation Drill Method:: Power auger Easting:: 613515 Location Accuracy:: Elev. Reliability Note:: Total Depth m:: 1.5 Township:: Lot:: Completion Date:: NOV-1966 Primary Water Use:: Not Used Type: Borehole Status:: UTM Zone:: 17 Northing:: 4822283 Orig. Ground Elev m:: 85.3 DEM Ground Elev m:: 85 Primary Name:: Concession:: Municipality: Static Water Level:: -999.9 Sec. Water Use::					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
--Details--					
Stratum ID:	218493469			Top Depth(m):	0.0
Bottom Depth(m):	0.2			Stratum Desc:	FILL,SOIL,GRAVEL. BROWN.
Stratum ID:	218493470			Top Depth(m):	0.2
Bottom Depth(m):	0.9			Stratum Desc:	SILT,CLAY,SAND. BROWN,ALLUVIAL,MOIST, AGE POST-GLACIAL.
Stratum ID:	218493471			Top Depth(m):	0.9
Bottom Depth(m):	1.5			Stratum Desc:	CLAY,SILT,SAND. BROWN,LACUSTRINE,MOIST, AGE GLACIAL. . CLAY,S
111	1 of 1	SW/129.3	81.3	ON	BORE
Borehole ID:	640745			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Power auger			UTM Zone::	17
Easting::	613735			Northing::	4821983
Location Accuracy::				Orig. Ground Elev m::	82.4
Elev. Reliability Note::				DEM Ground Elev m::	82
Total Depth m::	1.2			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	APR-1966			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
--Details--					
Stratum ID:	218493402			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	ASPHALT.
Stratum ID:	218493403			Top Depth(m):	0.1
Bottom Depth(m):	0.2			Stratum Desc:	FILL,GRAVEL,SAND, SILT.
Stratum ID:	218493404			Top Depth(m):	0.2
Bottom Depth(m):	1.2			Stratum Desc:	SAND-MEDIUM TO COARSE,SILT,CLAY. BROWN,ALLUVIAL,MOIST, AGE POST-GLACIAL. T,SAND,
112	1 of 1	NE/129.7	77.8	ON	BORE
Borehole ID:	640697			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Power auger			UTM Zone::	17
Easting::	614295			Northing::	4822523
Location Accuracy::				Orig. Ground Elev m::	78.6
Elev. Reliability Note::				DEM Ground Elev m::	78.3
Total Depth m::	2.7			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	AUG-1965			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
--Details--					
Stratum ID:	218493205			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	ASPHALT.

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Stratum ID: Bottom Depth(m):	218493206 0.2			Top Depth(m): Stratum Desc:	0.1 FILL,STONES.
Stratum ID: Bottom Depth(m):	218493207 0.4			Top Depth(m): Stratum Desc:	0.2 SAND-MEDIUM TO COARSE,SILT,CLAY. BROWN,ALLUVIAL, AGE POST-GLACIAL.
Stratum ID: Bottom Depth(m):	218493208 0.9			Top Depth(m): Stratum Desc:	0.4 SAND-MEDIUM TO COARSE,SILT,CLAY. BROWN,ALLUVIAL, AGE POST-GLACIAL.
Stratum ID: Bottom Depth(m):	218493209 1.4			Top Depth(m): Stratum Desc:	0.9 SAND-MEDIUM TO COARSE,CLAY,SILT. FLUVIO-GLACIAL,AGE GLACIAL.
Stratum ID: Bottom Depth(m):	218493210 2.7			Top Depth(m): Stratum Desc:	1.4 TILL,CLAY,SAND,SILT.GLACIAL,AGE GLACIAL.

113	1 of 1	NW/129.8	81.6	MISSISSAUGA ON	WWIS
Well ID: Construction Date:: Primary Water Use:: Sec. Water Use:: Final Well Status:: Specific Capacity:: Municipality: County:	4909648 Observation Wells MISSISSAUGA CITY (PORT CREDIT) PEEL			Lot: Concession: Concession Name: Easting NAD83:: Northing NAD83:: Zone:: UTM Reliability::	
Bore Hole Information					
--	--				
Bore Hole ID: DP2BR: Code OB: Code OB Description: Open Hole: Date Completed: Remarks: Zone: East 83: North 83: UTMRC: UTMRC Description: Location Method: Org CS: Elevation: Elevrc: Elevrc Description: Location Source Date: Source Revision Comment: Improvement Location Source: Improvement Location Method: Supplier Comment: Spatial Status:	11323381 11 r Bedrock 30-NOV-04 17 613668 4822489 wwr UTM83 82.36 --				
Overburden and Bedrock Materials Interval					
--	--				
Formation ID: Layer: General Color: Most Common Material:	933021047 1 BROWN SAND				

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Other Materials:		SILT			
Other Materials:					
Formation Top Depth:		0			
Formation End Depth:		3.5			
Formation End Depth UOM:		m			
--		--			
Formation ID:		933021048			
Layer:		2			
General Color:		GREY			
Most Common Material:		SHALE			
Other Materials:					
Other Materials:					
Formation Top Depth:		3.5			
Formation End Depth:		6			
Formation End Depth UOM:		m			
--		--			
Annular Space/Abandonment Sealing Record					
--		--			
Plug ID:		933265488			
Layer:		1			
Plug From:		0			
Plug To:		.3			
Plug Depth UOM:		m			
--		--			
Plug ID:		933265487			
Layer:		2			
Plug From:		.3			
Plug To:		4			
Plug Depth UOM:		m			
--		--			
Plug ID:		933265489			
Layer:		3			
Plug From:		4			
Plug To:		6			
Plug Depth UOM:		m			
--		--			
Method of Construction & Well Use					
--		--			
Method Construction ID:		964909648			
Method Construction Code:		6			
Method Construction:		Boring			
Other Method Construction:					
--		--			
Pipe Information					
--		--			
Pipe ID:		11338236			
Casing Number:		1			
Comment:					
Alt Name:					
--		--			
Construction Record - Casing					
--		--			
Casing ID:		930866450			
Layer:		1			
Open Hole or Material:		PLASTIC			
Depth From:		0			
Depth To:		4.5			
Casing Diameter:		5			
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
--		--			
--		--			
Construction Record - Screen					
--		--			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Screen ID:		933411788			
Layer:		1			
Slot:		10			
Screen Top Depth:		4.5			
Screen End Depth:		6			
Screen Material:		5			
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:		6.4			
--		--			
Water Details					
--		--			
Water ID:		934058204			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		5			
Water Found Depth UOM:		m			
--		--			
Hole Diameter					
--		--			
Hole ID:		11543272			
Diameter:		2			
Depth From:		0			
Depth To:		6			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
--		--			
--		--			

114

1 of 1

NNW/129.8

80.8

ON

BORE

Borehole ID: 640607
Use: Geotechnical/Geological Investigation
Drill Method:: Power auger
Easting:: 613800
Location Accuracy::
Elev. Reliability Note::
Total Depth m:: 1.5
Township::
Lot::
Completion Date:: AUG-1965
Primary Water Use:: Not Used

Type: Borehole
Status::
UTM Zone:: 17
Northing:: 4822663
Orig. Ground Elev m:: 83.2
DEM Ground Elev m:: 82.6
Primary Name::
Concession::
Municipality:
Static Water Level:: -999.9
Sec. Water Use::

--Details--

Stratum ID: 218492857
Bottom Depth(m): 1.1

Top Depth(m): 0.2
Stratum Desc: SAND-MEDIUM TO COARSE,SILT,CLAY.
ALLUVIAL,AGE POST-GLACIAL.

Stratum ID: 218492858
Bottom Depth(m): 1.4

Top Depth(m): 1.1
Stratum Desc: SAND-MEDIUM TO COARSE,CLAY,SILT.
ALLUVIAL,AGE POST-GLACIAL.

Stratum ID: 218492859
Bottom Depth(m): 1.5

Top Depth(m): 1.4
Stratum Desc: SAND-MEDIUM TO COARSE,SILT,CLAY.
ALLUVIAL,AGE POST-GLACIAL.

Stratum ID: 218492856
Bottom Depth(m): 0.2

Top Depth(m): 0.0
Stratum Desc: FILL,GRAVEL.

Stratum ID: 218492855
Bottom Depth(m): 0.0

Top Depth(m): 0.0
Stratum Desc: ASPHALT.

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
115	1 of 1	NNE/130.4	79.6	T V FACTS OAKVILLE 50 BAY ST MISSISSAUGA ON L5H 1C3	SCT
Established:		1982			
Plant Size (ft²):					
Employment:		1			
--Details--					
Description:		PERIODICALS: PUBLISHING, OR PUBLISHING & PRINTING			
SIC/NAICS Code:		2721			
116	1 of 1	WSW/132.2	83.8	ON	BORE
Borehole ID:		637835	Type:		Borehole
Use:		Geotechnical/Geological Investigation	Status::		
Drill Method::		Hand auger	UTM Zone::		17
Easting::		613530	Northing::		4822143
Location Accuracy::			Orig. Ground Elev m::		83.5
Elev. Reliability Note::			DEM Ground Elev m::		83.7
Total Depth m::		1.2	Primary Name::		
Township::			Concession::		
Lot::			Municipality:		
Completion Date::		AUG-1965	Static Water Level::		-999.9
Primary Water Use::		Not Used	Sec. Water Use::		
--Details--					
Stratum ID:		218481907	Top Depth(m):		0.0
Bottom Depth(m):		0.3	Stratum Desc:		ASPHALT.
Stratum ID:		218481908	Top Depth(m):		0.3
Bottom Depth(m):		0.6	Stratum Desc:		FILL,SAND,CLAY,SILT.
Stratum ID:		218481909	Top Depth(m):		0.6
Bottom Depth(m):		1.2	Stratum Desc:		CLAY. GREY,LACUSTRINE,AGE GLACIAL. BROWN,GLA
117	1 of 1	NNE/136.8	78.8	ON	WWIS
Well ID:		7203664	Lot:		
Construction Date::			Concession:		
Primary Water Use::			Concession Name:		
Sec. Water Use::			Easting NAD83::		
Final Well Status::			Northing NAD83::		
Specific Capacity::			Zone::		
Municipality:		MISSISSAUGA CITY (PORT CREDIT)	UTM Reliability::		
County:		PEEL			
Bore Hole Information					
--		--			
Bore Hole ID:		1004370371			
DP2BR:					
Code OB:					
Code OB Description:					
Open Hole:					
Date Completed:		05-APR-13			
Remarks:					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Zone: 17 East 83: 614212 North 83: 4822593 UTMRC: 4 UTMRC Description: margin of error : 30 m - 100 m Location Method: wwr Org CS: UTM83 Elevation: Elevrc: Elevrc Description: Location Source Date: Source Revision Comment: Improvement Location Source: Improvement Location Method: Supplier Comment: Spatial Status: -- -- -- --					
118	1 of 1	NNE/138.9	79.8	ON	BORE
Borehole ID: 640709 Use: Geotechnical/Geological Investigation Drill Method:: Power auger Easting:: 614115 Location Accuracy:: Elev. Reliability Note:: Total Depth m:: 1.2 Township:: Lot:: Completion Date:: AUG-1965 Primary Water Use:: Not Used Type: Borehole Status:: UTM Zone:: 17 Northing:: 4822668 Orig. Ground Elev m:: 80.6 DEM Ground Elev m:: 80.3 Primary Name:: Concession:: Municipality: Static Water Level:: -999.9 Sec. Water Use::					
--Details-- Stratum ID: 218493261 Bottom Depth(m): 0.0 Stratum ID: 218493262 Bottom Depth(m): 0.2 Stratum ID: 218493263 Bottom Depth(m): 0.2 Stratum ID: 218493264 Bottom Depth(m): 1.2 Top Depth(m): 0.0 Stratum Desc: ASPHALT. Top Depth(m): 0.0 Stratum Desc: FILL,GRAVEL. Top Depth(m): 0.2 Stratum Desc: SAND-MEDIUM TO COARSE,SILT,CLAY. DARK,ALLUVIAL, AGE POST-GLACIAL. Top Depth(m): 0.2 Stratum Desc: SAND-MEDIUM TO COARSE,SILT,CLAY. GREY,ALLUVIAL,WET, AGE POST-GLACIAL.					
119	1 of 5	N/141.4	79.8	Dr. M. Jordan Alley Dentistry PC 150 Lakeshore Road West, Unit 102 Mississauga ON	GEN
PO Box Num: Status: Country: Generator #: ON4441469 Approval Yrs:: As of May 2015 SIC Code: SIC Description: --Details--					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Waste Code: Waste Description:		312 Pathological wastes			
119	2 of 5	N/141.4	79.8	Dr. M. Jordan Alley Dentistry PC 150 Lakeshore Road West, Unit 102 Mississauga ON L5H 3R2	GEN
PO Box Num: Status: Country: Generator #: Approval Yrs:: SIC Code: SIC Description:		Registered Canada ON4441469 As of Sep 2016			
<u>--Details--</u> Waste Code: Waste Description:		312 P Pathological wastes			
119	3 of 5	N/141.4	79.8	PHOTOLINE LABS (OUT OF BUSINESS) 30-873 150 LAKESHORE ROAD WEST MISSISSAUGA ON L5H 3R2	GEN
PO Box Num: Status: Country: Generator #: Approval Yrs:: SIC Code: SIC Description:		ON1532000 92,93,94,95,96,97,98 6571 CAMERA/PHOTO. SUPPLY			
<u>--Details--</u> Waste Code: Waste Description:		264 PHOTOPROCESSING WASTES			
119	4 of 5	N/141.4	79.8	PACE PUBLISHING LIMITED 150 LAKESHORE RD W MISSISSAUGA ON L5H 3R2	SCT
Established: Plant Size (ft²): Employment:		1966 0 7			
<u>--Details--</u> Description: SIC/NAICS Code:		Periodical Publishers 511120			
Description: SIC/NAICS Code:		NEWSPAPERS: PUBLISHING, OR PUBLISHING & PRINTING 2711			
Description: SIC/NAICS Code:		PERIODICALS: PUBLISHING, OR PUBLISHING & PRINTING 2721			
119	5 of 5	N/141.4	79.8	PIONEER PETROLEUMS LTD. PIONEER GAS STATION AT 150 LAKESHORE SERVICE STATION	SPL

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
MISSISSAUGA CITY ON					
Ref No:	144489				
Contaminant Code:					
Contaminant Name:					
Contaminant Quantity:					
Incident Cause:	UNKNOWN				
Incident Dt:	8/1/1997				
Incident Reason:	UNKNOWN				
Incident Summary:	PIONEER PETROLEUMS: LEAK OF PROPANE FROM STORAGE TANK, ISOLATED.				
MOE Reported Dt:	8/1/1997				
Environmental Impact:	POSSIBLE				
Nature of Impact:	Air Pollution				
Receiving Medium:	AIR				
SAC Action Class:					
Sector Source Type:					
Receiving Environment:					
Incident Event:					
Site Municipality:	21102				

120	1 of 1	SW/142.1	81.8	ON	BORE
Borehole ID:	640746			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Power auger			UTM Zone::	17
Easting::	613695			Northing::	4821998
Location Accuracy::				Orig. Ground Elev m::	82.9
Elev. Reliability Note::				DEM Ground Elev m::	82.8
Total Depth m::	1.2			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	APR-1966			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
--Details--					
Stratum ID:	218493405			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	ASPHALT.
Stratum ID:	218493406			Top Depth(m):	0.1
Bottom Depth(m):	0.3			Stratum Desc:	FILL,GRAVEL,SAND, SILT. BROWN.
Stratum ID:	218493407			Top Depth(m):	0.3
Bottom Depth(m):	0.5			Stratum Desc:	SILT,SAND-MEDIUM TO COARSE,CLAY. BROWN,ALLUVIAL, AGE POST-GLACIAL.
Stratum ID:	218493408			Top Depth(m):	0.5
Bottom Depth(m):	1.2			Stratum Desc:	SAND-MEDIUM TO COARSE,SILT,CLAY. BROWN,ALLUVIAL,MOIST, AGE POST-GLACIAL.

121	1 of 1	WNW/143.2	83.8	ON	BORE
Borehole ID:	640756			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Power auger			UTM Zone::	17
Easting::	613570			Northing::	4822383
Location Accuracy::				Orig. Ground Elev m::	85
Elev. Reliability Note::				DEM Ground Elev m::	84.4
Total Depth m::	2.2			Primary Name::	

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	NOV-1966			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
--Details--					
Stratum ID:	218493438			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	FILL,SAND,SILT, GRAVEL. BROWN.
Stratum ID:	218493439			Top Depth(m):	0.1
Bottom Depth(m):	0.3			Stratum Desc:	SAND,CLAY,SILT. BROWN,ALLUVIAL, AGE POST-GLACIAL.
Stratum ID:	218493440			Top Depth(m):	0.3
Bottom Depth(m):	0.9			Stratum Desc:	SAND(58),SILT(27), CLAY(15). BROWN,ALLUVIAL,MOIST, AGE POST-GLACIAL.
Stratum ID:	218493441			Top Depth(m):	0.9
Bottom Depth(m):	1.8			Stratum Desc:	CLAY,SILT,SAND. BROWN,LACUSTRINE,AGE GLACIAL.
Stratum ID:	218493442			Top Depth(m):	1.8
Bottom Depth(m):	2.2			Stratum Desc:	CLAY,SILT,SAND, STONES. GREY,LACUSTRINE,AGE GLACIAL.

021

122	1 of 1	NNE/143.2	78.8	ON	BORE
Borehole ID:		640703		Type:	Borehole
Use:		Geotechnical/Geological Investigation		Status::	
Drill Method::		Power auger		UTM Zone::	17
Easting::		614210		Northing::	4822603
Location Accuracy::				Orig. Ground Elev m::	80
Elev. Reliability Note::				DEM Ground Elev m::	79.3
Total Depth m::		1.2		Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::		AUG-1965		Static Water Level::	-999.9
Primary Water Use::		Not Used		Sec. Water Use::	
--Details--					
Stratum ID:	218493234			Top Depth(m):	0.0
Bottom Depth(m):	0.0			Stratum Desc:	ASPHALT.
Stratum ID:	218493235			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	FILL,GRAVEL,SAND, SILT.
Stratum ID:	218493236			Top Depth(m):	0.1
Bottom Depth(m):	0.2			Stratum Desc:	SAND-MEDIUM TO COARSE,SILT,CLAY. ALLUVIAL,AGE POST-GLACIAL.
Stratum ID:	218493237			Top Depth(m):	0.2
Bottom Depth(m):	0.3			Stratum Desc:	SAND-MEDIUM TO COARSE,SILT,CLAY. ALLUVIAL,AGE POST-GLACIAL.
Stratum ID:	218493238			Top Depth(m):	0.3
Bottom Depth(m):	0.6			Stratum Desc:	SAND-MEDIUM TO COARSE,SILT,CLAY. BROWN,ALLUVIAL, AGE POST-GLACIAL.
Stratum ID:	218493239			Top Depth(m):	0.6
Bottom Depth(m):	1.2			Stratum Desc:	SILT(50),SAND(39)MEDIUM TO COARSE, CLAY(15). ALLUVIAL,AGE POST-GLACIAL.

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
019 022					
123	1 of 2	NW/145.6	80.8	224 Lakeshore Road West Mississauga ON L5H 1G6	EHS
Postal Code: City: Address2: Address1: Provstate: Order No.: 20040901005 Addit. Info Ordered:: Report Date: 9/3/04 Report Type: Site Report Search Radius (km): 0.25					
123	2 of 2	NW/145.6	80.8	2246856 Ontario LTD 224 Lakeshore Rd W unit 8 Mississauga ON L5H1G6	GEN
PO Box Num: Status: Registered Country: Canada Generator #: ON4684077 Approval Yrs:: As of Sep 2016 SIC Code: SIC Description: --Details-- Waste Code: 261 A Waste Description: Pharmaceuticals Waste Code: 312 P Waste Description: Pathological wastes					
124	1 of 1	NNW/146.5	79.8	ON	BORE
Borehole ID: 640606 Use: Geotechnical/Geological Investigation Drill Method:: Power auger Easting:: 613835 Location Accuracy:: Elev. Reliability Note:: Total Depth m:: .6 Township:: Lot:: Completion Date:: AUG-1965 Primary Water Use:: Not Used Type: Borehole Status:: UTM Zone:: 17 Northing:: 4822703 Orig. Ground Elev m:: 82.5 DEM Ground Elev m:: 82 Primary Name:: Concession:: Municipality: Static Water Level:: -999.9 Sec. Water Use::					
--Details-- Stratum ID: 218492852 Bottom Depth(m): 0.1 Stratum ID: 218492853 Bottom Depth(m): 0.2 Stratum ID: 218492854 Bottom Depth(m): 0.6 Top Depth(m): 0.0 Stratum Desc: ASPHALT. Top Depth(m): 0.1 Stratum Desc: FILL, GRAVEL. Top Depth(m): 0.2 Stratum Desc: SAND-MEDIUM TO COARSE, SILT, CLAY.					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
ALLUVIAL, AGE POST-GLACIAL.					
125	1 of 7	WSW/147.3	83.8	Medical Associates of Port Credit 333 Lakeshore Rd West 2nd Floor Mississauga ON L5H 1G9	GEN
PO Box Num: Status: Country: Generator #: ON3228846 Approval Yrs:: As of May 2015 SIC Code: SIC Description:					
--Details-- Waste Code: 261 Waste Description: Pharmaceuticals Waste Code: 312 Waste Description: Pathological wastes					
125	2 of 7	WSW/147.3	83.8	Medical Associates of Port Credit 333 Lakeshore Rd West 2nd Floor Mississauga ON	GEN
PO Box Num: Status: Country: Generator #: ON3228846 Approval Yrs:: 2013 SIC Code: 621499 SIC Description: ALL OTHER OUT-PATIENT CARE CENTRES					
--Details-- Waste Code: 261 Waste Description: PHARMACEUTICALS Waste Code: 312 Waste Description: PATHOLOGICAL WASTES					
125	3 of 7	WSW/147.3	83.8	Medical Associates of Port Credit 333 Lakeshore Rd West 2nd Floor Mississauga ON L5H 1G9	GEN
PO Box Num: Status: Registered Country: Canada Generator #: ON3228846 Approval Yrs:: As of Sep 2016 SIC Code: SIC Description:					
--Details-- Waste Code: 261 A Waste Description: Pharmaceuticals Waste Code: 312 P Waste Description: Pathological wastes					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
125	4 of 7	WSW/147.3	83.8	MARK LOMAGA MEDICINE PROFESSIONAL CORPORATION 333 Lakeshore Road West Suite 102 Mississauga ON L5H 1G9	GEN
PO Box Num: Status: Registered Country: Canada Generator #: ON3172369 Approval Yrs:: As of Sep 2016 SIC Code: SIC Description:					
--Details-- Waste Code: 312 P Waste Description: Pathological wastes					
125	5 of 7	WSW/147.3	83.8	Medical Associates of Port Credit 333 Lakeshore Rd West 2nd Floor Mississauga ON L5H 1G9	GEN
PO Box Num: Status: Country: Generator #: ON3228846 Approval Yrs:: 2011 SIC Code: 621499 SIC Description:					
125	6 of 7	WSW/147.3	83.8	MARK LOMAGA MEDICINE PROFESSIONAL CORPORATION 333 Lakeshore Road West Suite 102 Mississauga ON	GEN
PO Box Num: Status: Country: Generator #: ON3172369 Approval Yrs:: As of May 2015 SIC Code: SIC Description:					
--Details-- Waste Code: 312 Waste Description: Pathological wastes					
125	7 of 7	WSW/147.3	83.8	Medical Associates of Port Credit 333 Lakeshore Rd West 2nd Floor Mississauga ON L5H 1G9	GEN
PO Box Num: Status: Country: Generator #: ON3228846 Approval Yrs:: 2012 SIC Code: 621499					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
SIC Description:		All Other Out-Patient Care Centres			
126	1 of 1	N/148.4	79.8	ON	BORE
Borehole ID:	640584			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Power auger			UTM Zone::	17
Easting::	613975			Northing::	4822743
Location Accuracy::				Orig. Ground Elev m::	81.2
Elev. Reliability Note::				DEM Ground Elev m::	80.2
Total Depth m::	1.2			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	AUG-1965			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
--Details--					
Stratum ID:	218492763			Top Depth(m):	0.0
Bottom Depth(m):	0.0			Stratum Desc:	ASPHALT.
Stratum ID:	218492764			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	FILL,GRAVEL.
Stratum ID:	218492765			Top Depth(m):	0.1
Bottom Depth(m):	1.2			Stratum Desc:	SAND-MEDIUM TO COARSE,SILT,CLAY. BROWN,ALLUVIAL, AGE POST-GLACIAL. D-MEDIUM
127	1 of 1	SSW/152.2	79.3	ON	BORE
Borehole ID:	640527			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Power auger			UTM Zone::	17
Easting::	613890			Northing::	4821833
Location Accuracy::				Orig. Ground Elev m::	76.3
Elev. Reliability Note::				DEM Ground Elev m::	77
Total Depth m::	1.5			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	APR-1966			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
--Details--					
Stratum ID:	218492523			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	ASPHALT.
Stratum ID:	218492524			Top Depth(m):	0.1
Bottom Depth(m):	0.2			Stratum Desc:	FILL,GRAVEL,SAND, SILT. BROWN.
Stratum ID:	218492525			Top Depth(m):	0.2
Bottom Depth(m):	1.2			Stratum Desc:	CLAY,SAND,SILT,SOIL.GREY,FLUVIO-GLACIAL,MOIST, AGE GLACIAL.
Stratum ID:	218492526			Top Depth(m):	1.2
Bottom Depth(m):	1.5			Stratum Desc:	TILL,CLAY,SAND,SILT.GREY,GLACIAL,STIFF, AGE GLACIAL.

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
128	1 of 2	WSW/152.5	82.8	9 Maple Avenue South, Mississauga ON	INC
Incident No: 406772 Incident ID: 2558448 Attribute Category: FS-Incident Status Code: Causal Analysis Complete Incident Location: 9 Maple Avenue South, Mississauga - 1/2" Pipeline Hit Drainage System: Sub Surface Contam.: Aff. Prop. Use Water: Contam. Migrated: Contact Natural Env.: Near Body of Water: Approx. Quant. Rel.: Equipment Model: Serial No: Residential App. Type: Commercial App. Type: Industrial App. Type: Institutional App. Type: Venting Type: Vent Connector Mater: Vent Chimney Mater: Pipeline Type: Service / Riser Distribution Pipeline Pipeline Involved: Pipe Material: Plastic Depth Ground Cover: Regulator Location: Outside Regulator Type: Service Regulator (up to 60 psi intake) Operation Pressure: IP Liquid Prop Make: Liquid Prop Model: Liquid Prop Serial No: Equipment Type: Cylinder Capacity: Cylinder Capac. Units: Cylinder Material Type: Tank Capacity: Fuels Occurrence Type: Fuel Type Involved: Date of Occurrence: Time of Occurrence: Occur Insp Start Date: Any Health Impact: Any Environmental Impact: Was Service Interrupted: Was Property Damaged: Operation Type Involved: Enforcement Policy: Prc Escalation Required: Task No: Notes: Occurrence Narrative: Tank Material Type: Tank Storage Type: Tank Location Type: Pump Flow Rate Capac: Liquid Prop Notes:					
128	2 of 2	WSW/152.5	82.8	9 Maple Avenue South, Mississauga ON	INC
Incident No: 374084					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Incident ID: 2525660 Attribute Category: FS-Incident Status Code: Causal Analysis Complete Incident Location: 9 Maple Avenue South, Mississauga - 1/2" Pipeline Hit Drainage System: Sub Surface Contam.: Aff. Prop. Use Water: Contam. Migrated: Contact Natural Env.: Near Body of Water: Approx. Quant. Rel.: Equipment Model: Serial No: Residential App. Type: Commercial App. Type: Industrial App. Type: Institutional App. Type: Venting Type: Vent Connector Mater: Vent Chimney Mater: Pipeline Type: Service / Riser Distribution Pipeline Pipeline Involved: Pipe Material: Plastic Depth Ground Cover: Regulator Location: Outside Regulator Type: Service Regulator (up to 60 psi intake) Operation Pressure: IP Liquid Prop Make: Liquid Prop Model: Liquid Prop Serial No: Equipment Type: Cylinder Capacity: Cylinder Capac. Units: Cylinder Material Type: Tank Capacity: Fuels Occurrence Type: Fuel Type Involved: Date of Occurrence: Time of Occurrence: Occur Insp Start Date: Any Health Impact: Any Environmental Impact: Was Service Interrupted: Was Property Damaged: Operation Type Involved: Enforcement Policy: Prc Escalation Required: Task No: Notes: Occurrence Narrative: Tank Material Type: Tank Storage Type: Tank Location Type: Pump Flow Rate Capac: Liquid Prop Notes:					

[129](#)

1 of 1

NW/157.9

81.7

Mississauga ON

WWIS

Well ID:	7181265	Lot:
Construction Date::		Concession:
Primary Water Use::	Monitoring and Test Hole	Concession Name:
Sec. Water Use::		Easting NAD83::
Final Well Status::	Test Hole	Northing NAD83::

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Specific Capacity::				Zone::	
Municipality:	MISSISSAUGA CITY (PORT CREDIT)			UTM Reliability::	
County:	PEEL				
Bore Hole Information					
--		--			
Bore Hole ID:		1003791211			
DP2BR:					
Code OB:					
Code OB Description:					
Open Hole:					
Date Completed:		04-APR-12			
Remarks:					
Zone:		17			
East 83:		613651			
North 83:		4822513			
UTMRC:		4			
UTMRC Description:		margin of error : 30 m - 100 m			
Location Method:		wwr			
Org CS:		UTM83			
Elevation:					
Elevrc:					
Elevrc Description:					
Location Source Date:					
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					
--		--			
Overburden and Bedrock					
Materials Interval					
--		--			
Formation ID:		1004316002			
Layer:		1			
General Color:		BROWN			
Most Common Material:		FILL			
Other Materials:		GRAVEL			
Other Materials:					
Formation Top Depth:		0			
Formation End Depth:		1.44			
Formation End Depth UOM:		m			
--		--			
Formation ID:		1004316003			
Layer:		2			
General Color:		GREY			
Most Common Material:		CLAY			
Other Materials:		SANDY			
Other Materials:					
Formation Top Depth:		1.44			
Formation End Depth:		3.71			
Formation End Depth UOM:		m			
--		--			
Formation ID:		1004316004			
Layer:		3			
General Color:		WHITE			
Most Common Material:		SHALE			
Other Materials:					
Other Materials:					
Formation Top Depth:		3.71			
Formation End Depth:		6.1			
Formation End Depth UOM:		m			
--		--			
Annular Space/Abandonment					
Sealing Record					
--		--			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Plug ID:		1004316013			
Layer:		1			
Plug From:		0			
Plug To:		.31			
Plug Depth UOM:		m			
--		--			
Plug ID:		1004316014			
Layer:		2			
Plug From:		.31			
Plug To:		1.98			
Plug Depth UOM:		m			
--		--			
Plug ID:		1004316015			
Layer:		3			
Plug From:		1.98			
Plug To:		6.1			
Plug Depth UOM:		m			
--		--			
Method of Construction & Well Use					
--		--			
Method Construction ID:		1004316012			
Method Construction Code:		5			
Method Construction:		Air Percussion			
Other Method Construction:					
--		--			
Pipe Information					
--		--			
Pipe ID:		1004316001			
Casing Number:		0			
Comment:					
Alt Name:					
--		--			
Construction Record - Casing					
--		--			
Casing ID:		1004316008			
Layer:		1			
Open Hole or Material:		PLASTIC			
Depth From:		0			
Depth To:		2.28			
Casing Diameter:		5.2			
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
--		--			
--		--			
Construction Record - Screen					
--		--			
Screen ID:		1004316009			
Layer:		1			
Slot:		10			
Screen Top Depth:		2.28			
Screen End Depth:		6.1			
Screen Material:		5			
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:		6.03			
--		--			
Hole Diameter					
--		--			
Hole ID:		1004316005			
Diameter:		11.43			
Depth From:		.36			
Depth To:					
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
--		--			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Hole ID:		1004316006			
Diameter:		7.62			
Depth From:		3.66			
Depth To:		6.1			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
--		--			
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130	1 of 1	WSW/158.8	81.9	ON	BORE
Borehole ID:	640747	Type:	Borehole		
Use:	Geotechnical/Geological Investigation	Status::			
Drill Method::	Power auger	UTM Zone::	17		
Easting::	613655	Northing::	4822008		
Location Accuracy::		Orig. Ground Elev m::	83.1		
Elev. Reliability Note::		DEM Ground Elev m::	83.5		
Total Depth m::	1.2	Primary Name::			
Township::		Concession::			
Lot::		Municipality:			
Completion Date::	APR-1966	Static Water Level::	-999.9		
Primary Water Use::	Not Used	Sec. Water Use::			
--Details--					
Stratum ID:	218493409	Top Depth(m):	0.0		
Bottom Depth(m):	0.1	Stratum Desc:	ASPHALT.		
Stratum ID:	218493410	Top Depth(m):	0.1		
Bottom Depth(m):	0.3	Stratum Desc:	FILL, GRAVEL, SAND, SILT. BROWN.		
Stratum ID:	218493411	Top Depth(m):	0.3		
Bottom Depth(m):	1.2	Stratum Desc:	SILT, SAND, CLAY. BROWN, ALLUVIAL, MOIST, AGE POST-GLACIAL. GLACIAL.		

131	1 of 1	ENE/159.2	78.8	Saddington Pk Dump (alt)	ANDR
				Mississauga ON L5G	
Legal Description:	Toronto Tp BF				
Location Description:					
Municipality:	Toronto Township				
Current Municipality:	Mississauga City				
RM:	Peel Region				
Facility:	Dump				
Date Active:	1964-74				
Date Begun:					
Date Complete:					
Area (Ha):					
Landfill Type:	sanitary landfill				
Group Name:	Lake Ontario				
Operated By:					
Serial:	MOEE 7070 (alt)				
NTS:	30M12				
Diameter (m):					

Historical Summary:

Saddington Park Landfill (alt) The MOEE lists dump 7070 @UTM NAD27 614250--4822275 (Ontario Ministry of the Environment [1994] Waste disposal site inventory, [Toronto]: Ontario Environment, 1994., i, 196 pp., maps, ISBN 0772984093: 115). However, there is a strong possibility (details in file ON MOEE 7070) that this datapoint is incorrectly positioned by the MOEE. 1951 NTS Map 30M12E Saddington Park is not marked, the MOEE 7070 datapoint position is built-up property. 1964 NTS Map 30M12E Saddington Park is not marked, the MOEE 7070 datapoint position is built-up property. 1974 Air Photomaps Sheet 7 Saddington Park is in the process of being lakefilled (YUML: [1974] Northway Air Survey Corporation Ltd., Toronto Region

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Air Photomaps G3524 T6 A4 4 1974). 1979 NTS Map 30M12 MOEE datapoint 7070 position is at the junction of Bay & John Sts. Saddington Park is shown elsewhere. 1985 NTS Map 30M12 J C Saddington Park is shown to extend via lakefilling completed since 1964 250m south of Lake St, Port Credit, some distance away from MOEE 7070 datapoint. Take a centroid on the centre of the lake filling @UTM NAD27 614400--4822250. Working conclusion This appears to be an area of lakefilling 1964-85. It has been selected as a suspected actual position for MOEE dump site 7070.					
Waste Type: UTM X Nad 27: UTM Y Nad 27: UTM Zone:					
132	1 of 1	N/160.9	79.8	ON	BORE
Borehole ID: 647784 Use: Geotechnical/Geological Investigation Drill Method:: Hand auger Easting:: 614010 Location Accuracy:: Elev. Reliability Note:: Total Depth m:: 1.2 Township:: Lot:: Completion Date:: AUG-1965 Primary Water Use:: Not Used		Type: Borehole Status:: UTM Zone:: 17 Northing:: 4822753 Orig. Ground Elev m:: 80.5 DEM Ground Elev m:: 80.1 Primary Name:: Concession:: Municipality: Static Water Level:: -999.9 Sec. Water Use::			
--Details--					
Stratum ID: 218520358 Bottom Depth(m): 0.1		Top Depth(m): 0.0 Stratum Desc: ASPHALT.			
Stratum ID: 218520359 Bottom Depth(m): 1.2		Top Depth(m): 0.1 Stratum Desc: SAND(22),SILT(51), CLAY(19),GRAVEL. GREY,BROWN,GLACIAL, AGE GLACIAL.			
133	1 of 1	W/161.4	84.8	ON	BORE
Borehole ID: 640517 Use: Geotechnical/Geological Investigation Drill Method:: Power auger Easting:: 613475 Location Accuracy:: Elev. Reliability Note:: Total Depth m:: 2.4 Township:: Lot:: Completion Date:: NOV-1966 Primary Water Use:: Not Used		Type: Borehole Status:: UTM Zone:: 17 Northing:: 4822188 Orig. Ground Elev m:: 84.8 DEM Ground Elev m:: 84.6 Primary Name:: Concession:: Municipality: Static Water Level:: -999.9 Sec. Water Use::			
--Details--					
Stratum ID: 218492488 Bottom Depth(m): 0.3		Top Depth(m): 0.0 Stratum Desc: FILL,GRAVEL,CLAY. BROWN.			
Stratum ID: 218492489 Bottom Depth(m): 1.1		Top Depth(m): 0.3 Stratum Desc: SILT,CLAY,SAND. BROWN,ALLUVIAL,MOIST, AGE POST-GLACIAL.			
Stratum ID: 218492490 Bottom Depth(m): 1.8		Top Depth(m): 1.1 Stratum Desc: CLAY,SILT,SAND. BROWN,LACUSTRINE,MOIST, AGE GLACIAL.			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Stratum ID: Bottom Depth(m):	218492491 2.4			Top Depth(m): Stratum Desc:	1.8 TILL,CLAY,SILT. GREY,BROWN,GLACIAL, AGE GLACIAL.
134	1 of 1	NW/162.7	81.8	ON	BORE
Borehole ID: Use: Drill Method:: Easting:: Location Accuracy:: Elev. Reliability Note:: Total Depth m:: Township:: Lot:: Completion Date:: Primary Water Use::	640611 Geotechnical/Geological Investigation Power auger 613695 1.2 AUG-1965 Not Used			Type: Status:: UTM Zone:: Northing:: Orig. Ground Elev m:: DEM Ground Elev m:: Primary Name:: Concession:: Municipality: Static Water Level:: Sec. Water Use::	Borehole 17 4822578 82.9 82.6 -999.9
--Details-- Stratum ID: Bottom Depth(m):	218492872 0.0			Top Depth(m): Stratum Desc:	0.0 ASPHALT.
Stratum ID: Bottom Depth(m):	218492873 0.2			Top Depth(m): Stratum Desc:	0.0 FILL,GRAVEL,SAND, SILT.
Stratum ID: Bottom Depth(m):	218492874 1.2			Top Depth(m): Stratum Desc:	0.2 SAND-MEDIUM TO COARSE,SILT,CLAY. BROWN,ALLUVIAL, AGE POST-GLACIAL. ,AL
135	1 of 1	WSW/163.7	82.8	ON	BORE
Borehole ID: Use: Drill Method:: Easting:: Location Accuracy:: Elev. Reliability Note:: Total Depth m:: Township:: Lot:: Completion Date:: Primary Water Use::	640748 Geotechnical/Geological Investigation Power auger 613615 1.2 APR-1966 Not Used			Type: Status:: UTM Zone:: Northing:: Orig. Ground Elev m:: DEM Ground Elev m:: Primary Name:: Concession:: Municipality: Static Water Level:: Sec. Water Use::	Borehole 17 4822033 83.4 83.6 -999.9
--Details-- Stratum ID: Bottom Depth(m):	218493412 0.1			Top Depth(m): Stratum Desc:	0.0 ASPHALT.
Stratum ID: Bottom Depth(m):	218493413 0.2			Top Depth(m): Stratum Desc:	0.1 FILL,GRAVEL. BROWN.
Stratum ID: Bottom Depth(m):	218493414 1.2			Top Depth(m): Stratum Desc:	0.2 SILT,SAND,CLAY. BROWN,ALLUVIAL,MOIST, AGE POST-GLACIAL. GLACIAL.
136	1 of 1	NE/165.7	78.2	ON	BORE

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Borehole ID:	640696			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Power auger			UTM Zone::	17
Easting::	614315			Northing::	4822553
Location Accuracy::				Orig. Ground Elev m::	78.3
Elev. Reliability Note::				DEM Ground Elev m::	78.5
Total Depth m::	2			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	AUG-1965			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
--Details--					
Stratum ID:	218493200			Top Depth(m):	0.0
Bottom Depth(m):	0.0			Stratum Desc:	ASPHALT.
Stratum ID:	218493201			Top Depth(m):	0.0
Bottom Depth(m):	0.2			Stratum Desc:	FILL,GRAVEL.
Stratum ID:	218493202			Top Depth(m):	0.2
Bottom Depth(m):	0.8			Stratum Desc:	SAND-MEDIUM TO COARSE,SILT,CLAY. BROWN,ALLUVIAL, AGE POST-GLACIAL.
Stratum ID:	218493203			Top Depth(m):	0.8
Bottom Depth(m):	1.5			Stratum Desc:	SAND-MEDIUM TO COARSE,CLAY,SILT. ALLUVIAL,WET,AGE POST-GLACIAL.
Stratum ID:	218493204			Top Depth(m):	1.5
Bottom Depth(m):	2.0			Stratum Desc:	SAND,CLAY,SILT. ALLUVIAL,AGE POST-GLACIAL.

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1 of 1

WNW/166.6

83.6

Mississauga ON

WWIS

Well ID: 7181257
Construction Date::
Primary Water Use:: Monitoring and Test Hole
Sec. Water Use::
Final Well Status:: Test Hole
Specific Capacity::
Municipality: MISSISSAUGA CITY (PORT CREDIT)
County: PEEL

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

Bore Hole Information

--
Bore Hole ID: 1003791069
DP2BR:
Code OB:
Code OB Description:
Open Hole:
Date Completed: 05-APR-12
Remarks:
Zone: 17
East 83: 613584
North 83: 4822440
UTMRC: 4
UTMRC Description: margin of error : 30 m - 100 m
Location Method: wwr
Org CS: UTM83
Elevation:
Elevrc:
Elevrc Description:
Location Source Date:

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					
--		--			
Overburden and Bedrock Materials Interval					
--		--			
Formation ID:		1004315883			
Layer:		1			
General Color:		BROWN			
Most Common Material:		FILL			
Other Materials:		GRAVEL			
Other Materials:					
Formation Top Depth:		0			
Formation End Depth:		.91			
Formation End Depth UOM:		m			
--		--			
Formation ID:		1004315884			
Layer:		2			
General Color:		GREY			
Most Common Material:		CLAY			
Other Materials:		SAND			
Other Materials:					
Formation Top Depth:		.91			
Formation End Depth:		1.5			
Formation End Depth UOM:		m			
--		--			
Formation ID:		1004315885			
Layer:		3			
General Color:		WHITE			
Most Common Material:		SHALE			
Other Materials:					
Other Materials:					
Formation Top Depth:		1.5			
Formation End Depth:		4.57			
Formation End Depth UOM:		m			
--		--			
Annular Space/Abandonment Sealing Record					
--		--			
Plug ID:		1004315894			
Layer:		1			
Plug From:		0			
Plug To:		.31			
Plug Depth UOM:		m			
--		--			
Plug ID:		1004315895			
Layer:		2			
Plug From:		.31			
Plug To:		4.27			
Plug Depth UOM:		m			
--		--			
Plug ID:		1004315896			
Layer:		3			
Plug From:		4.27			
Plug To:		4.57			
Plug Depth UOM:		m			
--		--			
Method of Construction & Well Use					
--		--			
Method Construction ID:		1004315893			
Method Construction Code:		5			
Method Construction:		Air Percussion			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Other Method Construction:					
--	--	--	--	--	--
Pipe Information					
--	--	--	--	--	--
Pipe ID:		1004315882			
Casing Number:		0			
Comment:					
Alt Name:					
--	--	--	--	--	--
Construction Record - Casing					
--	--	--	--	--	--
Casing ID:		1004315889			
Layer:		1			
Open Hole or Material:		PLASTIC			
Depth From:		0			
Depth To:		3.1			
Casing Diameter:		5.2			
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
--	--	--	--	--	--
--	--	--	--	--	--
Construction Record - Screen					
--	--	--	--	--	--
Screen ID:		1004315890			
Layer:		1			
Slot:		10			
Screen Top Depth:		3.1			
Screen End Depth:		4.57			
Screen Material:		5			
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:		6.03			
--	--	--	--	--	--
Hole Diameter					
--	--	--	--	--	--
Hole ID:		1004315886			
Diameter:		11.43			
Depth From:		0			
Depth To:		2.44			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
--	--	--	--	--	--
Hole ID:		1004315887			
Diameter:		7.62			
Depth From:		2.44			
Depth To:		4.57			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
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--	--	--	--	--	--

138	1 of 1	NW/169.5	81.8	ON	BORE
Borehole ID: 640579					
Use: Geotechnical/Geological Investigation					
Drill Method:: Power auger					
Easting:: 613735					
Location Accuracy::					
Elev. Reliability Note::					
Total Depth m:: 1.4					
Township::					
Lot::					
Completion Date:: AUG-1965					
Primary Water Use:: Not Used					
Type: Borehole					
Status::					
UTM Zone:: 17					
Northing:: 4822643					
Orig. Ground Elev m:: 83.7					
DEM Ground Elev m:: 83.5					
Primary Name::					
Concession::					
Municipality:					
Static Water Level:: -999.9					
Sec. Water Use::					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
--Details--					
Stratum ID:	218492743			Top Depth(m):	0.0
Bottom Depth(m):	0.2			Stratum Desc:	ASPHALT.
Stratum ID:	218492744			Top Depth(m):	0.2
Bottom Depth(m):	0.3			Stratum Desc:	FILL, GRAVEL.
Stratum ID:	218492745			Top Depth(m):	0.3
Bottom Depth(m):	0.6			Stratum Desc:	SAND-MEDIUM TO COARSE, SILT, CLAY. ALLUVIAL, AGE POST-GLACIAL.
Stratum ID:	218492746			Top Depth(m):	0.6
Bottom Depth(m):	0.7			Stratum Desc:	SAND-MEDIUM TO COARSE, SILT, CLAY. BROWN, ALLUVIAL, AGE POST-GLACIAL.
Stratum ID:	218492747			Top Depth(m):	0.7
Bottom Depth(m):	1.4			Stratum Desc:	SAND-MEDIUM TO COARSE, SILT, CLAY. ALLUVIAL, AGE POST-GLACIAL.

139	1 of 1	W/173.5	85.9	ON	BORE
Borehole ID:	640765			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Power auger			UTM Zone::	17
Easting::	613475			Northing::	4822303
Location Accuracy::				Orig. Ground Elev m::	85.9
Elev. Reliability Note::				DEM Ground Elev m::	85.8
Total Depth m::	1.8			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	NOV-1966			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
--Details--					
Stratum ID:	218493472			Top Depth(m):	0.0
Bottom Depth(m):	0.3			Stratum Desc:	FILL, SOIL, GRAVEL. BROWN.
Stratum ID:	218493473			Top Depth(m):	0.3
Bottom Depth(m):	0.9			Stratum Desc:	SAND-MEDIUM TO COARSE, SILT, CLAY. BROWN, ALLUVIAL, MOIST, AGE POST-GLACIAL.
Stratum ID:	218493474			Top Depth(m):	0.9
Bottom Depth(m):	1.8			Stratum Desc:	CLAY, SILT, SAND, STONES-MEDIUM TO COARSE. BROWN, LACUSTRINE, AGE GLACIAL.

140	1 of 1	WNW/173.9	83.8	Mississauga ON	WWIS
Well ID:	7181262			Lot:	
Construction Date::				Concession:	
Primary Water Use::	Monitoring and Test Hole			Concession Name:	
Sec. Water Use::				Easting NAD83::	
Final Well Status::	Test Hole			Northing NAD83::	
Specific Capacity::				Zone::	
Municipality:	MISSISSAUGA CITY (PORT CREDIT)			UTM Reliability::	
County:	PEEL				

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Bore Hole Information					
--		--			
Bore Hole ID:		1003791162			
DP2BR:					
Code OB:					
Code OB Description:					
Open Hole:					
Date Completed:		05-APR-12			
Remarks:					
Zone:		17			
East 83:		613574			
North 83:		4822439			
UTMRC:		4			
UTMRC Description:		margin of error : 30 m - 100 m			
Location Method:		wwr			
Org CS:		UTM83			
Elevation:					
Elevrc:					
Elevrc Description:					
Location Source Date:					
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					
--		--			
Overburden and Bedrock Materials Interval					
--		--			
Formation ID:		1004315958			
Layer:		1			
General Color:		BLACK			
Most Common Material:					
Other Materials:		CEMENTED			
Other Materials:					
Formation Top Depth:		0			
Formation End Depth:		.31			
Formation End Depth UOM:		m			
--		--			
Formation ID:		1004315959			
Layer:		2			
General Color:		BROWN			
Most Common Material:		FILL			
Other Materials:		CLAY			
Other Materials:		LOOSE			
Formation Top Depth:		.31			
Formation End Depth:		2.44			
Formation End Depth UOM:		m			
--		--			
Formation ID:		1004315960			
Layer:		3			
General Color:		GREY			
Most Common Material:		SHALE			
Other Materials:					
Other Materials:					
Formation Top Depth:		2.44			
Formation End Depth:		6.1			
Formation End Depth UOM:		m			
--		--			
Annular Space/Abandonment Sealing Record					
--		--			
Plug ID:		1004315969			
Layer:		1			
Plug From:		0			
Plug To:		.31			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Plug Depth UOM:		m			
--		--			
Plug ID:		1004315970			
Layer:		2			
Plug From:		.31			
Plug To:		4.27			
Plug Depth UOM:		m			
--		--			
Plug ID:		1004315971			
Layer:		3			
Plug From:		4.27			
Plug To:		6.1			
Plug Depth UOM:		m			
--		--			
Method of Construction & Well Use					
--		--			
Method Construction ID:		1004315968			
Method Construction Code:		5			
Method Construction:		Air Percussion			
Other Method Construction:					
--		--			
Pipe Information					
--		--			
Pipe ID:		1004315957			
Casing Number:		0			
Comment:					
Alt Name:					
--		--			
Construction Record - Casing					
--		--			
Casing ID:		1004315964			
Layer:		1			
Open Hole or Material:		PLASTIC			
Depth From:		0			
Depth To:		4.57			
Casing Diameter:		5.2			
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
--		--			
--		--			
Construction Record - Screen					
--		--			
Screen ID:		1004315965			
Layer:		1			
Slot:		10			
Screen Top Depth:		4.57			
Screen End Depth:		6.1			
Screen Material:		5			
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:		6.03			
--		--			
Hole Diameter					
--		--			
Hole ID:		1004315961			
Diameter:		11.43			
Depth From:		0			
Depth To:		3.1			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
--		--			
Hole ID:		1004315962			
Diameter:		7.62			
Depth From:		3.1			
Depth To:		6.1			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
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141	1 of 1	N/174.3	79.8	ON	BORE
Borehole ID:	640585			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Power auger			UTM Zone::	17
Easting::	613935			Northing::	4822763
Location Accuracy::				Orig. Ground Elev m::	79.9
Elev. Reliability Note::				DEM Ground Elev m::	80.2
Total Depth m::	2.4			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	AUG-1965			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
--Details--					
Stratum ID:	218492766			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	ASPHALT.
Stratum ID:	218492767			Top Depth(m):	0.1
Bottom Depth(m):	0.2			Stratum Desc:	FILL, GRAVEL.
Stratum ID:	218492768			Top Depth(m):	0.2
Bottom Depth(m):	0.2			Stratum Desc:	FILL, SAND-MEDIUM TO COARSE, SILT, CLAY. BROWN.
Stratum ID:	218492769			Top Depth(m):	0.2
Bottom Depth(m):	0.4			Stratum Desc:	FILL, SAND-MEDIUM TO COARSE, SILT, CLAY. BROWN.
Stratum ID:	218492770			Top Depth(m):	0.4
Bottom Depth(m):	2.4			Stratum Desc:	SAND-MEDIUM TO COARSE, SILT, CLAY. BROWN, ALLUVIAL, AGE POST-GLACIAL.
142	1 of 1	WNW/174.8	83.4	MISSISSAUGA (PORT CREDIT) ON	WWIS
Well ID:	4910058			Lot:	
Construction Date::				Concession:	
Primary Water Use::				Concession Name:	
Sec. Water Use::				Easting NAD83::	
Final Well Status::	Observation Wells			Northing NAD83::	
Specific Capacity::				Zone::	
Municipality:	MISSISSAUGA CITY (PORT CREDIT)			UTM Reliability::	
County:	PEEL				
Bore Hole Information					
--	--				
Bore Hole ID:	11555292				
DP2BR:	11				
Code OB:	r				
Code OB Description:	Bedrock				
Open Hole:					
Date Completed:	18-JAN-06				
Remarks:					
Zone:	17				
East 83:	613579				
North 83:	4822447				

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<hr/>					
UTMRC:		3			
UTMRC Description:		margin of error : 10 - 30 m			
Location Method:		wwr			
Org CS:		UTM83			
Elevation:		83.99			
Elevrc:					
Elevrc Description:					
Location Source Date:					
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					
--		--			
Overburden and Bedrock Materials Interval					
--		--			
Formation ID:		933042897			
Layer:		1			
General Color:		BROWN			
Most Common Material:		SAND			
Other Materials:		SILT			
Other Materials:					
Formation Top Depth:		0			
Formation End Depth:		3.5			
Formation End Depth UOM:		m			
--		--			
Formation ID:		933042898			
Layer:		2			
General Color:		GREY			
Most Common Material:		SHALE			
Other Materials:		WEATHERED			
Other Materials:					
Formation Top Depth:		3.5			
Formation End Depth:		6.1			
Formation End Depth UOM:		m			
--		--			
Annular Space/Abandonment Sealing Record					
--		--			
Plug ID:		933286788			
Layer:		1			
Plug From:		0			
Plug To:		3.9			
Plug Depth UOM:		m			
--		--			
Method of Construction & Well Use					
--		--			
Method Construction ID:		964910058			
Method Construction Code:		6			
Method Construction:		Boring			
Other Method Construction:					
--		--			
Pipe Information					
--		--			
Pipe ID:		11564899			
Casing Number:		1			
Comment:					
Alt Name:					
--		--			
Construction Record - Casing					
--		--			
Casing ID:		930874541			
Layer:		1			
Open Hole or Material:		PLASTIC			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Depth From:		0			
Depth To:		4.5			
Casing Diameter:		5.1			
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
--		--			
--		--			
Construction Record - Screen					
--		--			
Screen ID:		933416883			
Layer:		1			
Slot:		20			
Screen Top Depth:		4.5			
Screen End Depth:		6.1			
Screen Material:		5			
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:		6.4			
--		--			
Hole Diameter					
--		--			
Hole ID:		11686940			
Diameter:		21			
Depth From:		0			
Depth To:		6.1			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
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[143](#)

1 of 1

WNW/177.1

84.9

ON

BORE

Borehole ID: 640757
Use: Geotechnical/Geological Investigation
Drill Method:: Power auger
Easting:: 613535
Location Accuracy::
Elev. Reliability Note::
Total Depth m:: 2.1
Township::
Lot::
Completion Date:: NOV-1966
Primary Water Use:: Not Used

Type: Borehole
Status::
UTM Zone:: 17
Northing:: 4822393
Orig. Ground Elev m:: 85.2
DEM Ground Elev m:: 84.8
Primary Name::
Concession::
Municipality:
Static Water Level:: -999.9
Sec. Water Use::

--Details--

Stratum ID: 218493443
Bottom Depth(m): 0.3

Top Depth(m): 0.0
Stratum Desc: FILL,SAND,SILT, GRAVEL. BROWN.

Stratum ID: 218493444
Bottom Depth(m): 1.2

Top Depth(m): 0.3
Stratum Desc: SAND,SILT,CLAY. BROWN,ALLUVIAL,MOIST, AGE POST-GLACIAL.

Stratum ID: 218493445
Bottom Depth(m): 1.8

Top Depth(m): 1.2
Stratum Desc: CLAY,SILT,SAND. GREY,BROWN,LACUSTRINE,MOIST, AGE GLACIAL.

Stratum ID: 218493446
Bottom Depth(m): 2.1

Top Depth(m): 1.8
Stratum Desc: TILL,CLAY,SILT,SAND.GREY, GLACIAL,MOIS T, AGE GLACIAL. SIL

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
144	1 of 1	WSW/177.7	83.8	ON	BORE
Borehole ID: 637836					
Use: Geotechnical/Geological Investigation					
Drill Method:: Hand auger					
Easting:: 613505					
Location Accuracy::					
Elev. Reliability Note::					
Total Depth m:: 1.5					
Township::					
Lot::					
Completion Date:: AUG-1965					
Primary Water Use:: Not Used					
Type: Borehole					
Status::					
UTM Zone:: 17					
Northing:: 4822103					
Orig. Ground Elev m:: 83.5					
DEM Ground Elev m:: 83.7					
Primary Name::					
Concession::					
Municipality:					
Static Water Level:: -999.9					
Sec. Water Use::					
--Details--					
Stratum ID: 218481910					
Bottom Depth(m): 0.3					
Top Depth(m): 0.0					
Stratum Desc: ASPHALT.					
Stratum ID: 218481911					
Bottom Depth(m): 0.5					
Top Depth(m): 0.3					
Stratum Desc: FILL,SAND,SILT,CLAY.BROWN.					
Stratum ID: 218481912					
Bottom Depth(m): 0.6					
Top Depth(m): 0.5					
Stratum Desc: SAND-MEDIUM. BROWN,FLUVIO-GLACIAL,MOIST, AGE GLACIAL.					
Stratum ID: 218481913					
Bottom Depth(m): 1.5					
Top Depth(m): 0.6					
Stratum Desc: SILT(40),SAND(26)MEDIUM TO COARSE,CLAY(25),GRAVEL. GREY,GLACIAL,AGE GLACIAL.					
145	1 of 1	WNW/178.4	84.8	TORONTO ON	WWIS
Well ID: 7116435					
Construction Date::					
Primary Water Use:: Monitoring					
Sec. Water Use::					
Final Well Status:: Observation Wells					
Specific Capacity::					
Municipality: MISSISSAUGA CITY					
County: PEEL					
Lot:					
Concession:					
Concession Name:					
Easting NAD83::					
Northing NAD83::					
Zone::					
UTM Reliability::					
Bore Hole Information					
--					
Bore Hole ID: 1001909508					
DP2BR:					
Code OB:					
Code OB Description:					
Open Hole:					
Date Completed: 14-OCT-08					
Remarks:					
Zone: 17					
East 83: 613530					
North 83: 4822389					
UTMRC: 3					
UTMRC Description: margin of error : 10 - 30 m					
Location Method: wwr					
Org CS: UTM83					
Elevation: 84.88					
Elevrc:					
Elevrc Description:					
Location Source Date:					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					
--	--	--	--	--	--
Overburden and Bedrock Materials Interval					
--	--	--	--	--	--
Formation ID:	1002020943				
Layer:	1				
General Color:	BROWN				
Most Common Material:	SILT				
Other Materials:	SAND				
Other Materials:	DENSE				
Formation Top Depth:	0				
Formation End Depth:	2.74				
Formation End Depth UOM:	m				
--	--	--	--	--	--
Formation ID:	1002020944				
Layer:	2				
General Color:	GREY				
Most Common Material:	SHALE				
Other Materials:	CLAY				
Other Materials:	STONES				
Formation Top Depth:	2.74				
Formation End Depth:	6.1				
Formation End Depth UOM:	m				
--	--	--	--	--	--
Annular Space/Abandonment Sealing Record					
--	--	--	--	--	--
Plug ID:	1002020947				
Layer:	1				
Plug From:	.3				
Plug To:	0				
Plug Depth UOM:	m				
--	--	--	--	--	--
Plug ID:	1002020948				
Layer:	2				
Plug From:	2.44				
Plug To:	.3				
Plug Depth UOM:	m				
--	--	--	--	--	--
Method of Construction & Well Use					
--	--	--	--	--	--
Method Construction ID:	1002020953				
Method Construction Code:	6				
Method Construction:	Boring				
Other Method Construction:	TRI CONE				
--	--	--	--	--	--
Pipe Information					
--	--	--	--	--	--
Pipe ID:	1002020942				
Casing Number:	0				
Comment:					
Alt Name:					
--	--	--	--	--	--
Construction Record - Casing					
--	--	--	--	--	--
Casing ID:	1002020950				
Layer:	1				
Open Hole or Material:					
Depth From:	4.57				
Depth To:	3				

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<hr/>					
Casing Diameter:		.5			
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
--		--			
--		--			
Construction Record - Screen					
--		--			
Screen ID:		1002020951			
Layer:		1			
Slot:		10			
Screen Top Depth:		4.57			
Screen End Depth:		6.1			
Screen Material:					
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:		.6			
--		--			
Hole Diameter					
--		--			
Hole ID:		1002020945			
Diameter:		20			
Depth From:		0			
Depth To:		2.74			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
--		--			
Hole ID:		1002020946			
Diameter:		10			
Depth From:		2.74			
Depth To:		6.1			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
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<hr/>					
146	1 of 1	NNW/179.3	79.8	ON	BORE
Borehole ID:	640605			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Power auger			UTM Zone::	17
Easting::	613860			Northing::	4822743
Location Accuracy::				Orig. Ground Elev m::	81.1
Elev. Reliability Note::				DEM Ground Elev m::	81.4
Total Depth m::	1.2			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	AUG-1965			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
--Details--					
Stratum ID:	218492847			Top Depth(m):	0.0
Bottom Depth(m):	0.0			Stratum Desc:	ASPHALT.
Stratum ID:	218492848			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	FILL, GRAVEL.
Stratum ID:	218492849			Top Depth(m):	0.1
Bottom Depth(m):	0.3			Stratum Desc:	FILL, SAND-MEDIUM TO COARSE, SILT, CLAY. GREY.
Stratum ID:	218492850			Top Depth(m):	0.3
Bottom Depth(m):	0.4			Stratum Desc:	SOIL, SAND-MEDIUM TO COARSE, SILT, CLAY. BLACK.

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<div> <div>Stratum ID: 218492851</div> <div>Bottom Depth(m): 1.2</div> <div>Top Depth(m): 0.4</div> <div>Stratum Desc: SAND-MEDIUM TO COARSE,SILT,CLAY. BROWN,ALLUVIAL, AGE POST-GLACIAL. L</div> </div>					
147	1 of 1	NNE/182.4	79.8	PRIVATE OWNER 24 JOHN STREET SOUTH SEPTIC SYSTEM MISSISSAUGA CITY ON L5H 2E4	SPL
<div> <div>Ref No: 113220</div> <div>Contaminant Code:</div> <div>Contaminant Name:</div> <div>Contaminant Quantity:</div> <div>Incident Cause: WASTEWATER DISCHARGE TO WATERCOURSE</div> <div>Incident Dt: 5/15/1995</div> <div>Incident Reason: EQUIPMENT FAILURE</div> <div>Incident Summary: PRIVATE SEPTIC TANK LEAK-ING SANITARY SEWAGE TO STORMSEWER: MOH, WORKS</div> <div>MOE Reported Dt: 5/16/1995</div> <div>Environmental Impact: POSSIBLE</div> <div>Nature of Impact: Water course or lake</div> <div>Receiving Medium: WATER</div> <div>SAC Action Class:</div> <div>Sector Source Type:</div> <div>Receiving Environment:</div> <div>Incident Event:</div> <div>Site Municipality: 21102</div> </div>					
148	1 of 1	NNE/183.4	79.8	Biobrn Div'n 18 John St S Mississauga ON L5H 2E4	SCT
<div> <div>Established: 1982</div> <div>Plant Size (ft²): 6000</div> <div>Employment: 5</div> <div>--Details--</div> <div>Description: All Other General-Purpose Machinery Manufacturing</div> <div>SIC/NAICS Code: 333990</div> <div>Description: Engineering Services</div> <div>SIC/NAICS Code: 541330</div> </div>					
149	1 of 1	NNW/185.6	79.8	29 Mississauga Road North Mississauga ON L5H 2H7	EHS
<div> <div>Postal Code:</div> <div>City:</div> <div>Address2:</div> <div>Address1:</div> <div>Provstate:</div> <div>Order No.: 20050818011</div> <div>Addit. Info Ordered::</div> <div>Report Date: 8/23/2005</div> <div>Report Type: Complete Report</div> <div>Search Radius (km): 0.25</div> </div>					
150	1 of 1	NW/186.5	81.8	220 - 252 Lakeshore Boulevard West Mississauga ON	EHS

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Postal Code: City: Address2: Address1: Provstate: Order No.: 20101222015 Addit. Info Ordered:: Title Searches Report Date: 1/3/2011 Report Type: Custom Report Search Radius (km): 0.25					

151	1 of 1	WSW/186.6	82.8	ON	BORE
Borehole ID: 640749 Use: Geotechnical/Geological Investigation Drill Method:: Power auger Easting:: 613565 Location Accuracy:: Elev. Reliability Note:: Total Depth m:: 1.2 Township:: Lot:: Completion Date:: APR-1966 Primary Water Use:: Not Used					
Type: Borehole Status:: UTM Zone:: 17 Northing:: 4822043 Orig. Ground Elev m:: 83.5 DEM Ground Elev m:: 83.7 Primary Name:: Concession:: Municipality: Static Water Level:: -999.9 Sec. Water Use::					
--Details--					
Stratum ID: 218493416 Bottom Depth(m): 0.2					
Top Depth(m): 0.1 Stratum Desc: FILL, GRAVEL. BROWN.					
Stratum ID: 218493417 Bottom Depth(m): 1.2					
Top Depth(m): 0.2 Stratum Desc: SAND-MEDIUM TO COARSE, SILT, CLAY. BROWN, ALLUVIAL, WET, AGE POST-GLACIAL.					
Stratum ID: 218493415 Bottom Depth(m): 0.1					
Top Depth(m): 0.0 Stratum Desc: ASPHALT.					

152	1 of 1	NW/189.6	82.8	ON	BORE
Borehole ID: 640613 Use: Geotechnical/Geological Investigation Drill Method:: Power auger Easting:: 613665 Location Accuracy:: Elev. Reliability Note:: Total Depth m:: .9 Township:: Lot:: Completion Date:: AUG-1965 Primary Water Use:: Not Used					
Type: Borehole Status:: UTM Zone:: 17 Northing:: 4822583 Orig. Ground Elev m:: 83.5 DEM Ground Elev m:: 82.6 Primary Name:: Concession:: Municipality: Static Water Level:: -999.9 Sec. Water Use::					
--Details--					
Stratum ID: 218492880 Bottom Depth(m): 0.9					
Top Depth(m): 0.1 Stratum Desc: SAND-MEDIUM TO COARSE, SILT, CLAY. ALLUVIAL, AGE POST-GLACIAL. L					
Stratum ID: 218492878 Bottom Depth(m): 0.0					
Top Depth(m): 0.0 Stratum Desc: ASPHALT.					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<hr/>					
Stratum ID:	218492879			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	FILL, GRAVEL.
<hr/>					
153	1 of 1	SSW/190.0	79.8	ON	BORE
Borehole ID:	640528			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Power auger			UTM Zone::	17
Easting::	613835			Northing::	4821828
Location Accuracy::				Orig. Ground Elev m::	77.7
Elev. Reliability Note::				DEM Ground Elev m::	77.8
Total Depth m::	1.2			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	APR-1966			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
<hr/>					
--Details--					
Stratum ID:	218492527			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	ASPHALT.
Stratum ID:	218492528			Top Depth(m):	0.1
Bottom Depth(m):	0.2			Stratum Desc:	FILL, GRAVEL. BROWN.
Stratum ID:	218492529			Top Depth(m):	0.2
Bottom Depth(m):	0.8			Stratum Desc:	SILT, CLAY, SAND, STONES. GREY, BROWN, FLUVIO-GLACIAL, MOIST, AGE GLACIAL.
Stratum ID:	218492530			Top Depth(m):	0.8
Bottom Depth(m):	1.2			Stratum Desc:	CLAY, SILT, SAND. BROWN, FLUVIO- GLACIAL, STIFF, AGE GLACIAL.
<hr/>					
154	1 of 1	NNE/190.3	78.9	ON	BORE
Borehole ID:	640702			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Power auger			UTM Zone::	17
Easting::	614235			Northing::	4822643
Location Accuracy::				Orig. Ground Elev m::	79.9
Elev. Reliability Note::				DEM Ground Elev m::	79.2
Total Depth m::	1.2			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	AUG-1965			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
<hr/>					
--Details--					
Stratum ID:	218493229			Top Depth(m):	0.0
Bottom Depth(m):	0.0			Stratum Desc:	ASPHALT.
Stratum ID:	218493230			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	FILL, GRAVEL.
Stratum ID:	218493231			Top Depth(m):	0.1
Bottom Depth(m):	0.5			Stratum Desc:	SAND-MEDIUM TO COARSE, SILT, CLAY. BROWN, ALLUVIAL, AGE POST-GLACIAL.

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Stratum ID: Bottom Depth(m):	218493232 1.1			Top Depth(m): Stratum Desc:	0.5 SAND-MEDIUM TO COARSE,CLAY,SILT. BROWN,ALLUVIAL, AGE POST-GLACIAL.
Stratum ID: Bottom Depth(m):	218493233 1.2			Top Depth(m): Stratum Desc:	1.1 CLAY,SAND,SILT. ALLUVIAL,AGE POST- GLACIAL.

155	1 of 1	WNW/190.5	83.5	Mississauga ON	WWIS
Well ID:	7181261			Lot:	
Construction Date::				Concession:	
Primary Water Use::	Monitoring and Test Hole			Concession Name:	
Sec. Water Use::				Easting NAD83::	
Final Well Status::	Test Hole			Northing NAD83::	
Specific Capacity::				Zone::	
Municipality:	MISSISSAUGA CITY (PORT CREDIT)			UTM Reliability::	
County:	PEEL				
Bore Hole Information					
--	--				
Bore Hole ID:	1003791159				
DP2BR:					
Code OB:					
Code OB Description:					
Open Hole:					
Date Completed:	04-APR-12				
Remarks:					
Zone:	17				
East 83:	613563				
North 83:	4822452				
UTMRC:	4				
UTMRC Description:	margin of error : 30 m - 100 m				
Location Method:	wwr				
Org CS:	UTM83				
Elevation:					
Elevrc:					
Elevrc Description:					
Location Source Date:					
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					
--	--				
Overburden and Bedrock					
Materials Interval					
--	--				
Formation ID:	1004315943				
Layer:	1				
General Color:	BLACK				
Most Common Material:					
Other Materials:	CEMENTED				
Other Materials:	HARD				
Formation Top Depth:	0				
Formation End Depth:	.31				
Formation End Depth UOM:	m				
--	--				
Formation ID:	1004315944				
Layer:	2				
General Color:	BROWN				
Most Common Material:	FILL				
Other Materials:	SHALE				

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<hr/>					
Other Materials:		LOOSE			
Formation Top Depth:		.31			
Formation End Depth:		1.5			
Formation End Depth UOM:		m			
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Formation ID:		1004315945			
Layer:		3			
General Color:		GREY			
Most Common Material:		SHALE			
Other Materials:					
Other Materials:					
Formation Top Depth:		1.5			
Formation End Depth:		10.06			
Formation End Depth UOM:		m			
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Annular Space/Abandonment Sealing Record					
--		--			
Plug ID:		1004315954			
Layer:		1			
Plug From:		0			
Plug To:		.31			
Plug Depth UOM:		m			
--		--			
Plug ID:		1004315955			
Layer:		2			
Plug From:		.31			
Plug To:		6.71			
Plug Depth UOM:		m			
--		--			
Plug ID:		1004315956			
Layer:		3			
Plug From:		6.71			
Plug To:		10.06			
Plug Depth UOM:		m			
--		--			
Method of Construction & Well Use					
--		--			
Method Construction ID:		1004315953			
Method Construction Code:		5			
Method Construction:		Air Percussion			
Other Method Construction:					
--		--			
Pipe Information					
--		--			
Pipe ID:		1004315942			
Casing Number:		0			
Comment:					
Alt Name:					
--		--			
Construction Record - Casing					
--		--			
Casing ID:		1004315949			
Layer:		1			
Open Hole or Material:		PLASTIC			
Depth From:		0			
Depth To:		7.01			
Casing Diameter:		5.2			
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
--		--			
--		--			
Construction Record - Screen					
--		--			
Screen ID:		1004315950			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Layer:	1				
Slot:	10				
Screen Top Depth:	7.01				
Screen End Depth:	10.06				
Screen Material:	5				
Screen Depth UOM:	m				
Screen Diameter UOM:	cm				
Screen Diameter:	6.03				
--	--				
Hole Diameter					
--	--				
Hole ID:	1004315946				
Diameter:	11.43				
Depth From:	0				
Depth To:	2.13				
Hole Depth UOM:	m				
Hole Diameter UOM:	cm				
--	--				
Hole ID:	1004315947				
Diameter:	7.62				
Depth From:	2.13				
Depth To:	10.06				
Hole Depth UOM:	m				
Hole Diameter UOM:	cm				
--	--				
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156	1 of 1	SSW/194.7	78.9	ON	BORE
Borehole ID:	640524			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Power auger			UTM Zone::	17
Easting::	613885			Northing::	4821783
Location Accuracy::				Orig. Ground Elev m::	77.4
Elev. Reliability Note::				DEM Ground Elev m::	78
Total Depth m::	1.2			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	APR-1966			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
--Details--					
Stratum ID:	218492514			Top Depth(m):	0.0
Bottom Depth(m):	0.2			Stratum Desc:	FILL,GRAVEL,SAND, SILT.
Stratum ID:	218492515			Top Depth(m):	0.2
Bottom Depth(m):	0.9			Stratum Desc:	SILT,CLAY,SAND. BROWN,ALLUVIAL,MOIST, AGE POST-GLACIAL.
Stratum ID:	218492516			Top Depth(m):	0.9
Bottom Depth(m):	1.2			Stratum Desc:	CLAY,SILT,SAND. BROWN,ALLUVIAL,MOIST, AGE POST-GLACIAL. ,SILT,C
157	1 of 1	WSW/201.5	82.8	ON	BORE
Borehole ID:	640492			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Power auger			UTM Zone::	17
Easting::	613515			Northing::	4822063
Location Accuracy::				Orig. Ground Elev m::	83.5

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Elev. Reliability Note::				DEM Ground Elev m::	83.9
Total Depth m::	1.2			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	APR-1966			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
--Details--					
Stratum ID:	218492395			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	ASPHALT.
Stratum ID:	218492396			Top Depth(m):	0.1
Bottom Depth(m):	0.3			Stratum Desc:	FILL,GRAVEL,STONES. GREY.
Stratum ID:	218492397			Top Depth(m):	0.3
Bottom Depth(m):	1.2			Stratum Desc:	SAND-MEDIUM TO COARSE,SILT,CLAY. BROWN,ALLUVIAL,WET, AGE POST- GLACIAL. . TILL

158	1 of 1	NNE/201.9	79.8	ON	BORE
Borehole ID:		640732		Type:	Borehole
Use:		Geotechnical/Geological Investigation		Status::	
Drill Method::		Power auger		UTM Zone::	17
Easting::		614140		Northing::	4822728
Location Accuracy::				Orig. Ground Elev m::	80.4
Elev. Reliability Note::				DEM Ground Elev m::	80
Total Depth m::	1.2			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	AUG-1965			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
--Details--					
Stratum ID:	218493355			Top Depth(m):	0.0
Bottom Depth(m):	0.0			Stratum Desc:	ASPHALT.
Stratum ID:	218493356			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	FILL,GRAVEL,SAND, SILT.
Stratum ID:	218493357			Top Depth(m):	0.1
Bottom Depth(m):	0.6			Stratum Desc:	SAND-MEDIUM TO COARSE,SILT,CLAY. BROWN,ALLUVIAL, AGE POST-GLACIAL.
Stratum ID:	218493358			Top Depth(m):	0.6
Bottom Depth(m):	1.2			Stratum Desc:	SAND-MEDIUM TO COARSE,CLAY,SILT. BROWN,ALLUVIAL, AGE POST-GLACIAL.

159	1 of 1	NNE/203.9	79.8	ON	BORE
Borehole ID:		640708		Type:	Borehole
Use:		Geotechnical/Geological Investigation		Status::	
Drill Method::		Power auger		UTM Zone::	17
Easting::		614150		Northing::	4822723
Location Accuracy::				Orig. Ground Elev m::	80.5
Elev. Reliability Note::				DEM Ground Elev m::	80
Total Depth m::	1.2			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Completion Date::	AUG-1965			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
--Details--					
Stratum ID:	218493258			Top Depth(m):	0.0
Bottom Depth(m):	0.0			Stratum Desc:	ASPHALT.
Stratum ID:	218493259			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	FILL, GRAVEL.
Stratum ID:	218493260			Top Depth(m):	0.1
Bottom Depth(m):	1.2			Stratum Desc:	SAND-MEDIUM TO COARSE, CLAY, SILT. ALLUVIAL, AGE POST-GLACIAL. C

160	1 of 1	NNE/204.3	78.9	ON	BORE
Borehole ID:	640730			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Power auger			UTM Zone::	17
Easting::	614245			Northing::	4822653
Location Accuracy::				Orig. Ground Elev m::	79.6
Elev. Reliability Note::				DEM Ground Elev m::	79
Total Depth m::	.9			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	AUG-1965			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
--Details--					
Stratum ID:	218493347			Top Depth(m):	0.0
Bottom Depth(m):	0.0			Stratum Desc:	ASPHALT.
Stratum ID:	218493348			Top Depth(m):	0.0
Bottom Depth(m):	0.2			Stratum Desc:	FILL, GRAVEL.
Stratum ID:	218493349			Top Depth(m):	0.2
Bottom Depth(m):	0.3			Stratum Desc:	SOIL, SAND-MEDIUM TO COARSE, SILT, CLAY. BLACK.
Stratum ID:	218493350			Top Depth(m):	0.3
Bottom Depth(m):	0.9			Stratum Desc:	SAND-MEDIUM TO COARSE, CLAY, SILT. BROWN, ALLUVIAL, AGE POST-GLACIAL.

161	1 of 1	NW/204.6	81.8	Mississauga ON	WWIS
Well ID:	7181260			Lot:	
Construction Date::				Concession:	
Primary Water Use::	Monitoring and Test Hole			Concession Name:	
Sec. Water Use::				Easting NAD83::	
Final Well Status::	Test Hole			Northing NAD83::	
Specific Capacity::				Zone::	
Municipality:	MISSISSAUGA CITY (PORT CREDIT)			UTM Reliability::	
County:	PEEL				
Bore Hole Information					
--					
Bore Hole ID:	1003791114				
DP2BR:					
Code OB:					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Code OB Description:					
Open Hole:					
Date Completed:		04-APR-12			
Remarks:					
Zone:		17			
East 83:		613602			
North 83:		4822526			
UTMRC:		4			
UTMRC Description:		margin of error : 30 m - 100 m			
Location Method:		wwr			
Org CS:		UTM83			
Elevation:					
Elevrc:					
Elevrc Description:					
Location Source Date:					
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					
--		--			
Overburden and Bedrock Materials Interval					
--		--			
Formation ID:		1004315927			
Layer:		1			
General Color:		BLACK			
Most Common Material:					
Other Materials:		CEMENTED			
Other Materials:		HARD			
Formation Top Depth:		0			
Formation End Depth:		.31			
Formation End Depth UOM:		m			
--		--			
Formation ID:		1004315928			
Layer:		2			
General Color:		BROWN			
Most Common Material:					
Other Materials:		FILL			
Other Materials:		LOOSE			
Formation Top Depth:		.31			
Formation End Depth:		1.22			
Formation End Depth UOM:		m			
--		--			
Formation ID:		1004315929			
Layer:		3			
General Color:		GREY			
Most Common Material:					
Other Materials:		CLAY			
Other Materials:		SAND			
Formation Top Depth:		1.22			
Formation End Depth:		3.66			
Formation End Depth UOM:		m			
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Formation ID:		1004315930			
Layer:		4			
General Color:		GREY			
Most Common Material:					
Other Materials:		SHALE			
Other Materials:					
Formation Top Depth:		3.66			
Formation End Depth:		10.06			
Formation End Depth UOM:		m			
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Annular Space/Abandonment Sealing Record					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
--		--			
Plug ID:		1004315939			
Layer:		1			
Plug From:		0			
Plug To:		.31			
Plug Depth UOM:		m			
--		--			
Plug ID:		1004315940			
Layer:		2			
Plug From:		.31			
Plug To:		6.71			
Plug Depth UOM:		m			
--		--			
Plug ID:		1004315941			
Layer:		3			
Plug From:		6.71			
Plug To:		10.06			
Plug Depth UOM:		m			
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Method of Construction & Well Use					
--		--			
Method Construction ID:		1004315938			
Method Construction Code:		5			
Method Construction:		Air Percussion			
Other Method Construction:					
--		--			
Pipe Information					
--		--			
Pipe ID:		1004315926			
Casing Number:		0			
Comment:					
Alt Name:					
--		--			
Construction Record - Casing					
--		--			
Casing ID:		1004315934			
Layer:		1			
Open Hole or Material:		PLASTIC			
Depth From:		0			
Depth To:		7.01			
Casing Diameter:		5.2			
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
--		--			
--		--			
Construction Record - Screen					
--		--			
Screen ID:		1004315935			
Layer:		1			
Slot:		10			
Screen Top Depth:		7.01			
Screen End Depth:		10.06			
Screen Material:		5			
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:		6.03			
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Hole Diameter					
--		--			
Hole ID:		1004315931			
Diameter:		11.43			
Depth From:		0			
Depth To:		4.57			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
--		--			
Hole ID:		1004315932			
Diameter:		7.62			
Depth From:		4.57			
Depth To:		10.06			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
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162	1 of 1	NE/206.0	77.8	ON	BORE
Borehole ID:	640729			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Power auger			UTM Zone::	17
Easting::	614295			Northing::	4822618
Location Accuracy::				Orig. Ground Elev m::	78.6
Elev. Reliability Note::				DEM Ground Elev m::	78.6
Total Depth m::	.9			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	AUG-1965			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
--Details--					
Stratum ID:	218493343			Top Depth(m):	0.0
Bottom Depth(m):	0.0			Stratum Desc:	ASPHALT.
Stratum ID:	218493344			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	FILL, GRAVEL.
Stratum ID:	218493345			Top Depth(m):	0.1
Bottom Depth(m):	0.4			Stratum Desc:	SOIL, SAND-MEDIUM TO COARSE, SILT, CLAY. BLACK.
Stratum ID:	218493346			Top Depth(m):	0.4
Bottom Depth(m):	0.9			Stratum Desc:	SAND-MEDIUM, SILT, CLAY. BROWN, ALLUVIAL, AGE POST-GLACIAL. POST-GLACIAL
163	1 of 1	NNW/207.2	79.8	ON	BORE
Borehole ID:	640604			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Power auger			UTM Zone::	17
Easting::	613875			Northing::	4822773
Location Accuracy::				Orig. Ground Elev m::	80.3
Elev. Reliability Note::				DEM Ground Elev m::	80.4
Total Depth m::	1.2			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	AUG-1965			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
--Details--					
Stratum ID:	218492843			Top Depth(m):	0.0
Bottom Depth(m):	0.0			Stratum Desc:	ASPHALT.
Stratum ID:	218492844			Top Depth(m):	0.0
Bottom Depth(m):	0.2			Stratum Desc:	SAND-MEDIUM TO COARSE, SILT, CLAY.

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
					BROWN,ALLUVIAL, AGE POST-GLACIAL.
Stratum ID: Bottom Depth(m):	218492845 0.2			Top Depth(m): Stratum Desc:	0.2 SAND-MEDIUM TO COARSE,SILT,CLAY. BROWN,ALLUVIAL, AGE POST-GLACIAL.
Stratum ID: Bottom Depth(m):	218492846 1.2			Top Depth(m): Stratum Desc:	0.2 SAND-MEDIUM TO COARSE,SILT,CLAY. BROWN,ALLUVIAL, AGE POST-GLACIAL. A
164	1 of 1	NW/208.4	82.0	ON	BORE
Borehole ID: Use: Drill Method:: Easting:: Location Accuracy:: Elev. Reliability Note:: Total Depth m:: Township:: Lot:: Completion Date:: Primary Water Use::	640580 Geotechnical/Geological Investigation Power auger 613695 1.8 AUG-1965 Not Used			Type: Status:: UTM Zone:: Northing:: Orig. Ground Elev m:: DEM Ground Elev m:: Primary Name:: Concession:: Municipality: Static Water Level:: Sec. Water Use::	Borehole 17 4822653 84.1 83.7 -999.9
--Details--					
Stratum ID: Bottom Depth(m):	218492748 0.2			Top Depth(m): Stratum Desc:	0.0 ASPHALT.
Stratum ID: Bottom Depth(m):	218492749 0.2			Top Depth(m): Stratum Desc:	0.2 FILL,STONES.
Stratum ID: Bottom Depth(m):	218492750 0.3			Top Depth(m): Stratum Desc:	0.2 SAND,SILT,CLAY. BROWN,ALLUVIAL, AGE POST-GLACIAL.
Stratum ID: Bottom Depth(m):	218492751 0.5			Top Depth(m): Stratum Desc:	0.3 SAND-MEDIUM TO COARSE,SILT,CLAY, ORGANIC. BROWN,ALLUVIAL, AGE POST- GLACIAL.
Stratum ID: Bottom Depth(m):	218492752 1.8			Top Depth(m): Stratum Desc:	0.5 SAND-MEDIUM TO COARSE,SILT,CLAY. ALLUVIAL,WET,AGE POST-GLACIAL.
165	1 of 1	SSW/208.9	79.6	ON	BORE
Borehole ID: Use: Drill Method:: Easting:: Location Accuracy:: Elev. Reliability Note:: Total Depth m:: Township:: Lot:: Completion Date:: Primary Water Use::	640529 Geotechnical/Geological Investigation Power auger 613785 2.3 APR-1966 Not Used			Type: Status:: UTM Zone:: Northing:: Orig. Ground Elev m:: DEM Ground Elev m:: Primary Name:: Concession:: Municipality: Static Water Level:: Sec. Water Use::	Borehole 17 4821843 80.2 79.9 -999.9
--Details--					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Stratum ID: Bottom Depth(m):	218492531 0.1			Top Depth(m): Stratum Desc:	0.0 ASPHALT.
Stratum ID: Bottom Depth(m):	218492532 0.1			Top Depth(m): Stratum Desc:	0.1 FILL, GRAVEL, SAND, SILT. BROWN.
Stratum ID: Bottom Depth(m):	218492533 1.7			Top Depth(m): Stratum Desc:	0.1 SILT, SAND, CLAY. BROWN, ALLUVIAL, MOIST, AGE POST-GLACIAL.
Stratum ID: Bottom Depth(m):	218492534 2.3			Top Depth(m): Stratum Desc:	1.7 SILT, SAND, CLAY. GREY, ALLUVIAL, MOIST, AGE POST-GLACIAL.

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NNE/210.7

79.8

ON

BORE

Borehole ID: 640731
Use: Geotechnical/Geological Investigation
Drill Method:: Power auger
Easting:: 614195
Location Accuracy::
Elev. Reliability Note::
Total Depth m:: 1.2
Township::
Lot::
Completion Date:: AUG-1965
Primary Water Use:: Not Used

Type: Borehole
Status::
UTM Zone:: 17
Northing:: 4822698
Orig. Ground Elev m:: 79.2
DEM Ground Elev m:: 80
Primary Name::
Concession::
Municipality:
Static Water Level:: -999.9
Sec. Water Use::

--Details--

Stratum ID: 218493351
Bottom Depth(m): 0.0

Top Depth(m): 0.0
Stratum Desc: ASPHALT.

Stratum ID: 218493352
Bottom Depth(m): 0.2

Top Depth(m): 0.0
Stratum Desc: FILL, GRAVEL, SAND, SILT.

Stratum ID: 218493353
Bottom Depth(m): 0.6

Top Depth(m): 0.2
Stratum Desc: SOIL, SAND, SILT, CLAY. BLACK.

Stratum ID: 218493354
Bottom Depth(m): 1.2

Top Depth(m): 0.6
Stratum Desc: SAND-MEDIUM TO COARSE, SILT, CLAY.
GREY, ALLUVIAL, WET, AGE POST-GLACIAL.

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1 of 1

W/212.8

85.6

ON

BORE

Borehole ID: 640518
Use: Geotechnical/Geological Investigation
Drill Method:: Power auger
Easting:: 613420
Location Accuracy::
Elev. Reliability Note::
Total Depth m:: 2.4
Township::
Lot::
Completion Date:: NOV-1966
Primary Water Use:: Not Used

Type: Borehole
Status::
UTM Zone:: 17
Northing:: 4822203
Orig. Ground Elev m:: 85.7
DEM Ground Elev m:: 85.3
Primary Name::
Concession::
Municipality:
Static Water Level:: -999.9
Sec. Water Use::

--Details--

Stratum ID: 218492492
Bottom Depth(m): 0.2

Top Depth(m): 0.0
Stratum Desc: FILL, SAND, SILT, GRAVEL. BROWN.

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Stratum ID: Bottom Depth(m):	218492493 1.2			Top Depth(m): Stratum Desc:	0.2 SILT,CLAY,SAND. BROWN,ALLUVIAL,MOIST, AGE POST-GLACIAL.
Stratum ID: Bottom Depth(m):	218492494 1.9			Top Depth(m): Stratum Desc:	1.2 CLAY,SILT,SAND. BROWN,LACUSTRINE,AGE GLACIAL.
Stratum ID: Bottom Depth(m):	218492495 2.4			Top Depth(m): Stratum Desc:	1.9 TILL,CLAY,SILT,SAND.GREY,GLACIAL,VERY DENSE, AGE GLACIAL.

[168](#) 1 of 1 WSW/213.1 83.8 ON [BORE](#)

Borehole ID:	640502	Type:	Borehole
Use:	Geotechnical/Geological Investigation	Status::	
Drill Method::	Power auger	UTM Zone::	17
Easting::	613475	Northing::	4822083
Location Accuracy::		Orig. Ground Elev m::	83.8
Elev. Reliability Note::		DEM Ground Elev m::	83.9
Total Depth m::	2.7	Primary Name::	
Township::		Concession::	
Lot::		Municipality:	
Completion Date::	NOV-1966	Static Water Level::	-999.9
Primary Water Use::	Not Used	Sec. Water Use::	
--Details--			
Stratum ID:	218492429	Top Depth(m):	0.0
Bottom Depth(m):	0.2	Stratum Desc:	FILL,GRAVEL,CLAY. BROWN.
Stratum ID:	218492430	Top Depth(m):	0.2
Bottom Depth(m):	1.2	Stratum Desc:	SAND-MEDIUM TO COARSE,SILT,CLAY. BROWN,ALLUVIAL,MOIST, AGE POST- GLACIAL.
Stratum ID:	218492431	Top Depth(m):	1.2
Bottom Depth(m):	1.8	Stratum Desc:	SAND,SILT,CLAY. BROWN,ALLUVIAL, AGE POST-GLACIAL.
Stratum ID:	218492432	Top Depth(m):	1.8
Bottom Depth(m):	2.4	Stratum Desc:	CLAY,SILT,SAND. BROWN,GREY,LACUSTRINE,WET, AGE GLACIAL.
Stratum ID:	218492433	Top Depth(m):	2.4
Bottom Depth(m):	2.7	Stratum Desc:	CLAY,SILT,SAND, STONES. BLUE,LACUSTRINE,STIFF, AGE GLACIAL.

[169](#) 1 of 1 N/213.3 79.8 ON [BORE](#)

Borehole ID:	640733	Type:	Borehole
Use:	Geotechnical/Geological Investigation	Status::	
Drill Method::	Power auger	UTM Zone::	17
Easting::	614090	Northing::	4822778
Location Accuracy::		Orig. Ground Elev m::	80.6
Elev. Reliability Note::		DEM Ground Elev m::	80
Total Depth m::	1.2	Primary Name::	
Township::		Concession::	
Lot::		Municipality:	

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Completion Date::	AUG-1965			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
--Details--					
Stratum ID:	218493359			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	ASPHALT.
Stratum ID:	218493360			Top Depth(m):	0.1
Bottom Depth(m):	0.2			Stratum Desc:	FILL, GRAVEL.
Stratum ID:	218493361			Top Depth(m):	0.2
Bottom Depth(m):	1.2			Stratum Desc:	SAND-MEDIUM TO COARSE, SILT, CLAY. AGE POST-GLACIAL.

170	1 of 1	NW/214.9	81.8	MISSISSAUGA ON	WWIS
Well ID:	4909558			Lot:	
Construction Date::				Concession:	
Primary Water Use::	Not Used			Concession Name:	
Sec. Water Use::				Easting NAD83::	
Final Well Status::	Observation Wells			Northing NAD83::	
Specific Capacity::				Zone::	
Municipality:	MISSISSAUGA CITY			UTM Reliability::	
County:	PEEL				
Bore Hole Information					
--	--				
Bore Hole ID:	11177186				
DP2BR:	10				
Code OB:	r				
Code OB Description:	Bedrock				
Open Hole:					
Date Completed:	24-AUG-04				
Remarks:					
Zone:	17				
East 83:	613599				
North 83:	4822539				
UTMRC:	3				
UTMRC Description:	margin of error : 10 - 30 m				
Location Method:	wwr				
Org CS:	UTM83				
Elevation:	81.59				
Elevrc:					
Elevrc Description:					
Location Source Date:					
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					
--	--				
Overburden and Bedrock					
Materials Interval					
--	--				
Formation ID:	932981999				
Layer:	1				
General Color:	BLACK				
Most Common Material:					
Other Materials:					
Other Materials:					
Formation Top Depth:	0				
Formation End Depth:	.1				

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Formation End Depth UOM:		m			
--		--			
Formation ID:		932982000			
Layer:		2			
General Color:		BROWN			
Most Common Material:		CLAY			
Other Materials:		TILL			
Other Materials:					
Formation Top Depth:		.1			
Formation End Depth:		3			
Formation End Depth UOM:		m			
--		--			
Formation ID:		932982001			
Layer:		3			
General Color:		GREY			
Most Common Material:		SHALE			
Other Materials:					
Other Materials:					
Formation Top Depth:		3			
Formation End Depth:		11			
Formation End Depth UOM:		m			
--		--			
Annular Space/Abandonment Sealing Record					
--		--			
Plug ID:		933259256			
Layer:		1			
Plug From:		6			
Plug To:		3			
Plug Depth UOM:		m			
--		--			
Plug ID:		933259257			
Layer:		2			
Plug From:		3			
Plug To:		.4			
Plug Depth UOM:		m			
--		--			
Plug ID:		933259258			
Layer:		3			
Plug From:		.4			
Plug To:		0			
Plug Depth UOM:		m			
--		--			
Method of Construction & Well Use					
--		--			
Method Construction ID:		964909558			
Method Construction Code:		6			
Method Construction:		Boring			
Other Method Construction:					
--		--			
Pipe Information					
--		--			
Pipe ID:		11185705			
Casing Number:		1			
Comment:					
Alt Name:					
--		--			
Construction Record - Casing					
--		--			
Casing ID:		930849489			
Layer:		1			
Open Hole or Material:		PLASTIC			
Depth From:		0			
Depth To:		8			
Casing Diameter:		5			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
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--		--			
Construction Record - Screen					
--		--			
Screen ID:		933410203			
Layer:		1			
Slot:					
Screen Top Depth:		8			
Screen End Depth:		11			
Screen Material:		5			
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:		5			
--		--			
Hole Diameter					
--		--			
Hole ID:		11311221			
Diameter:		25			
Depth From:		0			
Depth To:		3			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
--		--			
Hole ID:		11311220			
Diameter:		10			
Depth From:		3			
Depth To:		11			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
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[171](#)

1 of 1

NNW/215.9

79.8

ON

BORE

Borehole ID: 640586
Use: Geotechnical/Geological Investigation
Drill Method:: Power auger
Easting:: 613895
Location Accuracy::
Elev. Reliability Note::
Total Depth m:: 1.7
Township::
Lot::
Completion Date:: AUG-1965
Primary Water Use:: Not Used

Type: Borehole
Status::
UTM Zone:: 17
Northing:: 4822793
Orig. Ground Elev m:: 79.5
DEM Ground Elev m:: 79.6
Primary Name::
Concession::
Municipality:
Static Water Level:: -999.9
Sec. Water Use::

--Details--

Stratum ID: 218492771
Bottom Depth(m): 0.0

Top Depth(m): 0.0
Stratum Desc: ASPHALT.

Stratum ID: 218492772
Bottom Depth(m): 0.1

Top Depth(m): 0.0
Stratum Desc: FILL, GRAVEL.

Stratum ID: 218492773
Bottom Depth(m): 0.3

Top Depth(m): 0.1
Stratum Desc: SAND-MEDIUM TO COARSE, SILT, CLAY. GREY, ALLUVIAL, AGE POST-GLACIAL.

Stratum ID: 218492774
Bottom Depth(m): 1.7

Top Depth(m): 0.3
Stratum Desc: SAND-MEDIUM TO COARSE, SILT, CLAY. BROWN, ALLUVIAL, AGE POST-GLACIAL. AL, AG

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
172	1 of 1	N/217.9	79.8	ON	BORE
Borehole ID: 647837 Use: Geotechnical/Geological Investigation Drill Method:: Hand auger Easting:: 614045 Location Accuracy:: Elev. Reliability Note:: Total Depth m:: .9 Township:: Lot:: Completion Date:: AUG-1965 Primary Water Use:: Not Used		Type: Borehole Status:: UTM Zone:: 17 Northing:: 4822803 Orig. Ground Elev m:: 79.1 DEM Ground Elev m:: 79.5 Primary Name:: Concession:: Municipality: Static Water Level:: -999.9 Sec. Water Use::			
--Details--					
Stratum ID: 218520503 Bottom Depth(m): 0.2		Top Depth(m): 0.0 Stratum Desc: ASPHALT.			
Stratum ID: 218520504 Bottom Depth(m): 0.9		Top Depth(m): 0.2 Stratum Desc: SAND-MEDIUM TO COARSE,SILT,CLAY. BROWN,GLACIAL,AGE GLACIAL. AL.			
173	1 of 1	WNW/218.8	84.8	ON	BORE
Borehole ID: 640758 Use: Geotechnical/Geological Investigation Drill Method:: Power auger Easting:: 613490 Location Accuracy:: Elev. Reliability Note:: Total Depth m:: 2.1 Township:: Lot:: Completion Date:: NOV-1966 Primary Water Use:: Not Used		Type: Borehole Status:: UTM Zone:: 17 Northing:: 4822403 Orig. Ground Elev m:: 85.3 DEM Ground Elev m:: 85.2 Primary Name:: Concession:: Municipality: Static Water Level:: -999.9 Sec. Water Use::			
--Details--					
Stratum ID: 218493447 Bottom Depth(m): 0.3		Top Depth(m): 0.0 Stratum Desc: FILL,SAND,CLAY, GRAVEL. BROWN.			
Stratum ID: 218493448 Bottom Depth(m): 0.9		Top Depth(m): 0.3 Stratum Desc: CLAY,SILT,SAND. BROWN,ALLUVIAL,MOIST, AGE POST-GLACIAL.			
Stratum ID: 218493449 Bottom Depth(m): 1.8		Top Depth(m): 0.9 Stratum Desc: CLAY,SILT,SAND. GREY,BROWN,LACUSTRINE,DENSE, AGE GLACIAL.			
Stratum ID: 218493450 Bottom Depth(m): 2.1		Top Depth(m): 1.8 Stratum Desc: CLAY,SILT,SAND, STONES. GREY,LACUSTRINE,MOIST, AGE GLACIAL.			
174	1 of 1	N/221.0	79.8	ON	BORE

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Borehole ID:	640841			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Power auger			UTM Zone::	17
Easting::	614055			Northing::	4822803
Location Accuracy::				Orig. Ground Elev m::	79.2
Elev. Reliability Note::				DEM Ground Elev m::	79.5
Total Depth m::	1.5			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	AUG-1965			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
--Details--					
Stratum ID:	218493727			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	ASPHALT.
Stratum ID:	218493728			Top Depth(m):	0.1
Bottom Depth(m):	0.2			Stratum Desc:	FILL, GRAVEL.
Stratum ID:	218493729			Top Depth(m):	0.2
Bottom Depth(m):	1.5			Stratum Desc:	SAND-MEDIUM TO COARSE, SILT, CLAY. BROWN, ALLUVIAL, AGE POST-GLACIAL. AGE GLACIAL

175	1 of 5	WNW/223.1	82.9	Imperial Oil 250 Lakeshore Road West Mississauga ON L5H 1G6	GEN
PO Box Num:					
Status:		Registered			
Country:		Canada			
Generator #:		ON6248447			
Approval Yrs.:		As of Sep 2016			
SIC Code:					
SIC Description:					
--Details--					
Waste Code:		221 L			
Waste Description:		Light fuels			
Waste Code:		221 I			
Waste Description:		Light fuels			
Waste Code:		241 L			
Waste Description:		Halogenated solvents and residues			
Waste Code:		252 L			
Waste Description:		Waste crankcase oils and lubricants			
Waste Code:		251 L			
Waste Description:		Waste oils/sludges (petroleum based)			

175	2 of 5	WNW/223.1	82.9	Imperial Oil 250 Lakeshore Road West Mississauga ON	GEN
PO Box Num:					
Status:					
Country:					
Generator #:		ON6248447			
Approval Yrs::		2013			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
SIC Code:		412110			
SIC Description:		PETROLEUM PRODUCT WHOLESALER-DISTRIBUTORS			
--Details--					
Waste Code:		252			
Waste Description:		WASTE OILS & LUBRICANTS			
Waste Code:		221			
Waste Description:		LIGHT FUELS			
Waste Code:		241			
Waste Description:		HALOGENATED SOLVENTS			
Waste Code:		251			
Waste Description:		OIL SKIMMINGS & SLUDGES			
175	3 of 5	WNW/223.1	82.9	Loblaw Companies Inc 250 Lakeshore Road West Mississauga ON L5H 1G3	GEN
PO Box Num:					
Status:		Registered			
Country:		Canada			
Generator #:		ON5357062			
Approval Yrs::		As of Sep 2016			
SIC Code:					
SIC Description:					
--Details--					
Waste Code:		112 C			
Waste Description:		Acid solutions - containing heavy metals			
Waste Code:		122 C			
Waste Description:		Alkaline slutions - containing other metals and non-metals (not cyanide)			
Waste Code:		146 T			
Waste Description:		Other specified inorganic sludges, slurries or solids			
Waste Code:		145 L			
Waste Description:		Wastes from the use of pigments, coatings and paints			
Waste Code:		145 I			
Waste Description:		Wastes from the use of pigments, coatings and paints			
Waste Code:		148 I			
Waste Description:		Misc. wastes and inorganic chemicals			
Waste Code:		148 A			
Waste Description:		Misc. wastes and inorganic chemicals			
Waste Code:		263 L			
Waste Description:		Misc. waste organic chemicals			
Waste Code:		263 C			
Waste Description:		Misc. waste organic chemicals			
Waste Code:		263 A			
Waste Description:		Misc. waste organic chemicals			
Waste Code:		212 L			
Waste Description:		Aliphatic solvents and residues			

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elevation (m)</i>	<i>Site</i>	<i>DB</i>
Waste Code: Waste Description:		212 I Aliphatic solvents and residues			
Waste Code: Waste Description:		252 L Waste crankcase oils and lubricants			
Waste Code: Waste Description:		242 T Halogenated pesticides and herbicides			
Waste Code: Waste Description:		242 L Halogenated pesticides and herbicides			
Waste Code: Waste Description:		261 L Pharmaceuticals			
Waste Code: Waste Description:		261 I Pharmaceuticals			
Waste Code: Waste Description:		261 B Pharmaceuticals			
Waste Code: Waste Description:		261 A Pharmaceuticals			
Waste Code: Waste Description:		262 L Detergents and soaps			
Waste Code: Waste Description:		262 C Detergents and soaps			
Waste Code: Waste Description:		312 P Pathological wastes			
Waste Code: Waste Description:		331 L Waste compressed gases including cylinders			
Waste Code: Waste Description:		331 I Waste compressed gases including cylinders			
Waste Code: Waste Description:		269 T Organic non-halogenated pesticide and herbicide wastes			
Waste Code: Waste Description:		269 L Organic non-halogenated pesticide and herbicide wastes			
<u>175</u>	4 of 5	WNW/223.1	82.9	Loblaw Companies Inc 250 Lakeshore Road West Mississauga ON	GEN
PO Box Num: Status: Country: Generator #: Approval Yrs:: SIC Code: SIC Description:		ON5357062 As of May 2015			
--Details-- Waste Code: Waste Description:		312 Pathological wastes			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
175	5 of 5	WNW/223.1	82.9	250 Lakeshore Blvd W Part of Lots 9 to 12 inclusive Range 1 Mississauga Rof Peel Mississauga ON	SPL
Ref No: 7268-9EE3G7 Contaminant Code: 38 Contaminant Name: REFRIGERANT GAS, N.O.S. Contaminant Quantity: 150 kg Incident Cause: Leak/Break Incident Dt: 2013/12/14 Incident Reason: Equipment Failure Incident Summary: Loblaws Store: loss 150 kg refrigerant MOE Reported Dt: 2013/12/14 Environmental Impact: Confirmed Nature of Impact: Air Pollution Receiving Medium: SAC Action Class: Air Spills - Gases and Vapours Sector Source Type: Valve/Fitting/Piping Receiving Environment: Incident Event: Site Municipality: Mississauga					
176	1 of 1	WNW/224.0	83.9	ON	WWIS
Well ID: 7181263 Construction Date:: Primary Water Use:: Monitoring and Test Hole Sec. Water Use:: Final Well Status:: Observation Wells Specific Capacity:: Municipality: MISSISSAUGA CITY (PORT CREDIT) County: PEEL Lot: Concession: Concession Name: Easting NAD83:: Northing NAD83:: Zone:: UTM Reliability::					
Bore Hole Information -- Bore Hole ID: 1003791205 DP2BR: Code OB: Code OB Description: Open Hole: Date Completed: 04-APR-12 Remarks: Zone: 17 East 83: 613527 North 83: 4822460 UTMRC: 4 UTMRC Description: margin of error : 30 m - 100 m Location Method: wwr Org CS: UTM83 Elevation: Elevrc: Elevrc Description: Location Source Date: Source Revision Comment: Improvement Location Source: Improvement Location Method: Supplier Comment: Spatial Status: -- Overburden and Bedrock Materials Interval -- Formation ID: 1004315973					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Layer:		1			
General Color:		BROWN			
Most Common Material:		FILL			
Other Materials:		GRAVEL			
Formation Top Depth:		0			
Formation End Depth:		1.22			
Formation End Depth UOM:		m			
--		--			
Formation ID:		1004315974			
Layer:		2			
General Color:		GREY			
Most Common Material:		CLAY			
Other Materials:		SAND			
Formation Top Depth:		1.22			
Formation End Depth:		3.66			
Formation End Depth UOM:		m			
--		--			
Annular Space/Abandonment Sealing Record					
--		--			
Plug ID:		1004315983			
Layer:		1			
Plug From:		0			
Plug To:		.31			
Plug Depth UOM:		m			
--		--			
Plug ID:		1004315984			
Layer:		2			
Plug From:		.31			
Plug To:		1.83			
Plug Depth UOM:		m			
--		--			
Plug ID:		1004315985			
Layer:		3			
Plug From:		1.83			
Plug To:		3.66			
Plug Depth UOM:		m			
--		--			
Method of Construction & Well Use					
--		--			
Method Construction ID:		1004315982			
Method Construction Code:		5			
Method Construction:		Air Percussion			
Other Method Construction:					
--		--			
Pipe Information					
--		--			
Pipe ID:		1004315972			
Casing Number:		0			
Comment:					
Alt Name:					
--		--			
Construction Record - Casing					
--		--			
Casing ID:		1004315977			
Layer:		1			
Open Hole or Material:		PLASTIC			
Depth From:		0			
Depth To:		2.13			
Casing Diameter:		5.2			
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
--		--			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
--	--	--	--	--	--
Construction Record - Screen					
--	--	--	--	--	--
Screen ID:		1004315978			
Layer:		1			
Slot:		10			
Screen Top Depth:		2.13			
Screen End Depth:		3.66			
Screen Material:		5			
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:		6.03			
--	--	--	--	--	--
Screen ID:		1004315979			
Layer:		2			
Slot:					
Screen Top Depth:					
Screen End Depth:					
Screen Material:					
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:					
--	--	--	--	--	--
Hole Diameter					
--	--	--	--	--	--
Hole ID:		1004315975			
Diameter:		16.43			
Depth From:		0			
Depth To:		3.66			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
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177	1 of 1	SW/224.8	79.8	ON	BORE
Borehole ID: 640530					
Use: Geotechnical/Geological Investigation					
Drill Method:: Power auger					
Easting:: 613740					
Location Accuracy::					
Elev. Reliability Note::					
Total Depth m:: 1.4					
Township::					
Lot::					
Completion Date:: APR-1966					
Primary Water Use:: Not Used					
Type: Borehole					
Status::					
UTM Zone:: 17					
Northing:: 4821858					
Orig. Ground Elev m:: 80.7					
DEM Ground Elev m:: 80.9					
Primary Name::					
Concession::					
Municipality:					
Static Water Level:: -999.9					
Sec. Water Use::					
--Details--					
Stratum ID: 218492535					
Bottom Depth(m): 0.1					
Top Depth(m): 0.0					
Stratum Desc: ASPHALT.					
Stratum ID: 218492536					
Bottom Depth(m): 0.3					
Top Depth(m): 0.1					
Stratum Desc: FILL, GRAVEL, SAND, SILT. BROWN.					
Stratum ID: 218492537					
Bottom Depth(m): 1.4					
Top Depth(m): 0.3					
Stratum Desc: SILT, CLAY, SAND. BROWN, ALLUVIAL, AGE POST-GLACIAL. .					
178	1 of 1	WNW/226.1	84.9	Mississauga ON	WWIS

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<hr/>					
Well ID:	7203863			Lot:	
Construction Date::				Concession:	
Primary Water Use::				Concession Name:	
Sec. Water Use::	Monitoring			Easting NAD83::	
Final Well Status::	Observation Wells			Northing NAD83::	
Specific Capacity::				Zone::	
Municipality:	MISSISSAUGA CITY (PORT CREDIT)			UTM Reliability::	
County:	PEEL				
Bore Hole Information					
--	--				
Bore Hole ID:	1004377416				
DP2BR:					
Code OB:					
Code OB Description:					
Open Hole:					
Date Completed:	07-MAY-13				
Remarks:					
Zone:	17				
East 83:	613479				
North 83:	4822401				
UTMRC:	5				
UTMRC Description:	margin of error : 100 m - 300 m				
Location Method:	wwr				
Org CS:	UTM83				
Elevation:					
Elevrc:					
Elevrc Description:					
Location Source Date:					
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					
--	--				
Overburden and Bedrock					
Materials Interval					
--	--				
Formation ID:	1004968632				
Layer:	1				
General Color:	BROWN				
Most Common Material:	SILT				
Other Materials:	SAND				
Other Materials:	HARD				
Formation Top Depth:	0				
Formation End Depth:	6				
Formation End Depth UOM:	ft				
--	--				
Formation ID:	1004968633				
Layer:	2				
General Color:	GREY				
Most Common Material:	SHALE				
Other Materials:	HARD				
Other Materials:					
Formation Top Depth:	6				
Formation End Depth:	20				
Formation End Depth UOM:	ft				
--	--				
Annular Space/Abandonment					
Sealing Record					
--	--				
Plug ID:	1004968640				
Layer:	1				
Plug From:	0				
Plug To:	8				

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Plug Depth UOM:		ft			
--		--			
Method of Construction & Well Use					
--		--			
Method Construction ID:		1004968639			
Method Construction Code:		2			
Method Construction:		Rotary (Convent.)			
Other Method Construction:					
--		--			
Pipe Information					
--		--			
Pipe ID:		1004968631			
Casing Number:		0			
Comment:					
Alt Name:					
--		--			
Construction Record - Casing					
--		--			
Casing ID:		1004968636			
Layer:		1			
Open Hole or Material:		PLASTIC			
Depth From:		0			
Depth To:		10			
Casing Diameter:		2			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
--		--			
--		--			
Construction Record - Screen					
--		--			
Screen ID:		1004968637			
Layer:		1			
Slot:		10			
Screen Top Depth:		10			
Screen End Depth:		20			
Screen Material:		5			
Screen Depth UOM:		ft			
Screen Diameter UOM:		inch			
Screen Diameter:		2			
--		--			
Hole Diameter					
--		--			
Hole ID:		1004968634			
Diameter:		6			
Depth From:		0			
Depth To:		20			
Hole Depth UOM:		ft			
Hole Diameter UOM:		inch			
--		--			
--		--			

[179](#)

1 of 1

SSW/226.6

79.8

78 BEN MACHREE DR., MISSISSAUGA
ON

PINC

Incident ID:
Incident No: 1258356
Type: FS-Pipeline Incident
Status Code: Pipeline Damage Reason Est
Fuel Occurrence Tp:
Fuel Type:
Tank Status: RC Established
Task No: 4672231
Spills Action Centre:
Method Details: E-mail

Health Impact:
Environment Impact:
Property Damage: No
Service Interrupt:
Enforce Policy: Yes
Public Relation:
Pipeline System:
Depth:
Pipe Material:
PSIG:

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Fuel Category: Natural Gas Date of Occurrence: Occurrence Start Date: 2014/03/19 Operation Type: Pipeline Type: Regulator Type: Summary: 78 BEN MACHREE DR., MISSISSAUGA - PIPELINE HIT 1/2" Reported By: Blake Frost <Blake.Frost@enbridge.com> Affiliation: Occurrence Desc: Damage Reason: No notification made to the one call center Notes:					
Attribute Category: FS-Perform P-line Inc Invest Regualtor Location:					
180	1 of 2	WNW/227.3	82.9	BENTALL KENNEDY (CANADA) LP 220/252 LAKESHORE ROAD WEST MISSISSAUGA ON	GEN
PO Box Num: Status: Country: Generator #: ON9310722 Approval Yrs.: 2012 SIC Code: 561990 SIC Description: All Other Support Services					
180	2 of 2	WNW/227.3	82.9	Region of Peel 220 Lakeshore Rd. W Mississauga ON L5H 1G6	SPL
Ref No: 0580-7P9PWK Contaminant Code: Contaminant Name: SEWAGE,RAW UNCHLORINATED Contaminant Quantity: 0 other - see incident description Incident Cause: Discharge Or Bypass To A Watercourse Incident Dt: Incident Reason: Unknown - Reason not determined Incident Summary: Region of Peel: sewage back-up to Lake Ontario. MOE Reported Dt: 2/14/2009 Environmental Impact: Confirmed Nature of Impact: Surface Water Pollution Receiving Medium: SAC Action Class: Watercourse Spills Sector Source Type: Sewage Municipal Receiving Environment: Incident Event: Site Municipality: Mississauga					
181	1 of 1	W/227.4	85.8	ON	BORE
Borehole ID: 640766 Use: Geotechnical/Geological Investigation Drill Method: Power auger Easting: 613425 Location Accuracy: Elev. Reliability Note: Total Depth m: 2 Township: Lot:					
Type: Borehole Status: UTM Zone: 17 Northing: 4822323 Orig. Ground Elev m: 86.5 DEM Ground Elev m: 86 Primary Name: Concession: Municipality:					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Completion Date::		NOV-1966		Static Water Level::	-999.9
Primary Water Use::		Not Used		Sec. Water Use::	
--Details--					
Stratum ID:	218493476			Top Depth(m):	0.3
Bottom Depth(m):	0.8			Stratum Desc:	SAND-MEDIUM TO COARSE,SILT,CLAY. BROWN,ALLUVIAL,MOIST, AGE POST- GLACIAL.
Stratum ID:	218493477			Top Depth(m):	0.8
Bottom Depth(m):	2.0			Stratum Desc:	CLAY,SILT,SAND. BROWN,LACUSTRINE,MOIST, AGE GLACIAL. CIAL
Stratum ID:	218493475			Top Depth(m):	0.0
Bottom Depth(m):	0.3			Stratum Desc:	FILL,SAND,SILT,SOIL.BROWN,MOIST.
182	1 of 1	W/227.9	85.9	28 Pine Street N Mississauga ON	SPL
Ref No:		7014-9DSQ6T			
Contaminant Code:		43			
Contaminant Name:		SEDIMENT(SUSPENDED SOLIDS/ SAND/ SILT)			
Contaminant Quantity:		0 other - see incident description			
Incident Cause:		Leak/Break			
Incident Dt:		2013/11/25			
Incident Reason:		Operator/Human Error			
Incident Summary:		Peel: water line break, sediment into Lake Ontario			
MOE Reported Dt:		2013/11/25			
Environmental Impact:		Not Anticipated			
Nature of Impact:		Surface Water Pollution			
Receiving Medium:					
SAC Action Class:		Watercourse Spills			
Sector Source Type:		Sewer (Private or Municipal)			
Receiving Environment:					
Incident Event:					
Site Municipality:		Mississauga			
183	1 of 1	WSW/230.0	83.8	ON	BORE
Borehole ID:		640503		Type:	Borehole
Use:		Geotechnical/Geological Investigation		Status::	
Drill Method::		Power auger		UTM Zone::	17
Easting::		613445		Northing::	4822093
Location Accuracy::				Orig. Ground Elev m::	84.3
Elev. Reliability Note::				DEM Ground Elev m::	84
Total Depth m::		1.5		Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::		NOV-1966		Static Water Level::	-999.9
Primary Water Use::		Not Used		Sec. Water Use::	
--Details--					
Stratum ID:	218492435			Top Depth(m):	0.2
Bottom Depth(m):	0.5			Stratum Desc:	SAND-MEDIUM TO COARSE,SILT,CLAY. BROWN,ALLUVIAL, AGE POST-GLACIAL.
Stratum ID:	218492436			Top Depth(m):	0.5
Bottom Depth(m):	1.5			Stratum Desc:	CLAY,SILT,SAND MEDIUM TO COARSE. BROWN,LACUSTRINE,MOIST, AGE

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
					GLACIAL. GREY,
Stratum ID:	218492434			Top Depth(m):	0.0
Bottom Depth(m):	0.2			Stratum Desc:	FILL,SAND,SILT, GRAVEL. BROWN.
184	1 of 1	NW/230.2	80.9	ON	BORE
Borehole ID:	640618			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Power auger			UTM Zone::	17
Easting::	613705			Northing::	4822708
Location Accuracy::				Orig. Ground Elev m::	83.6
Elev. Reliability Note::				DEM Ground Elev m::	83.5
Total Depth m::	1.2			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	AUG-1965			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
--Details--					
Stratum ID:	218492896			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	ASPHALT.
Stratum ID:	218492897			Top Depth(m):	0.1
Bottom Depth(m):	0.3			Stratum Desc:	FILL,GRAVEL.
Stratum ID:	218492898			Top Depth(m):	0.3
Bottom Depth(m):	1.2			Stratum Desc:	SAND-MEDIUM TO COARSE,SILT,CLAY. BROWN,ALLUVIAL,WET, AGE POST- GLACIAL.
185	1 of 1	NNE/230.9	79.7	ON	BORE
Borehole ID:	643947			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Diamond Drill			UTM Zone::	17
Easting::	614155			Northing::	4822753
Location Accuracy::				Orig. Ground Elev m::	29.7
Elev. Reliability Note::				DEM Ground Elev m::	80.2
Total Depth m::	6.7			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	APR-1964			Static Water Level::	.7
Primary Water Use::	Not Used			Sec. Water Use::	
--Details--					
Stratum ID:	218505718			Top Depth(m):	0.0
Bottom Depth(m):	2.1			Stratum Desc:	SILT-MEDIUM,SAND. BROWN,LOOSE.
Stratum ID:	218505719			Top Depth(m):	2.1
Bottom Depth(m):	4.0			Stratum Desc:	SILT,SAND. GREY,BROWN,FLUVIO- GLACIAL, DENSE, WATER STABLE AT 95.3 FEET.
Stratum ID:	218505720			Top Depth(m):	4.0
Bottom Depth(m):	6.7			Stratum Desc:	SILT,CLAY,GRAVEL. GREY,GLACIAL,COMPACT,LAYERED, AGE GLACIAL. 0000008000700300013002600005

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
186	1 of 1	N/231.2	79.8	ON	BORE
Borehole ID:		643946	Type:		Borehole
Use:		Geotechnical/Geological Investigation	Status::		
Drill Method::		Diamond Drill	UTM Zone::		17
Easting::		614115	Northing::		4822783
Location Accuracy::			Orig. Ground Elev m::		29.1
Elev. Reliability Note::			DEM Ground Elev m::		80.2
Total Depth m::		5.2	Primary Name::		
Township::			Concession::		
Lot::			Municipality:		
Completion Date::		APR-1964	Static Water Level::		.5
Primary Water Use::		Not Used	Sec. Water Use::		
--Details--					
Stratum ID:		218505717	Top Depth(m):		2.9
Bottom Depth(m):		5.2	Stratum Desc:		SILT,CLAY. GREY,LACUSTRINE,DENSE. 00000066000700780009505500004
Stratum ID:		218505715	Top Depth(m):		0.0
Bottom Depth(m):		2.1	Stratum Desc:		SAND-MEDIUM,SILT. VERY DENSE.
Stratum ID:		218505716	Top Depth(m):		2.1
Bottom Depth(m):		2.9	Stratum Desc:		SILT,SAND. GREY,FLUVIO-GLACIAL, VERY DENSE, WATER STABLE AT 93.8 FEET.
187	1 of 1	N/232.5	79.8	ON	BORE
Borehole ID:		640842	Type:		Borehole
Use:		Geotechnical/Geological Investigation	Status::		
Drill Method::		Power auger	UTM Zone::		17
Easting::		614025	Northing::		4822823
Location Accuracy::			Orig. Ground Elev m::		78.6
Elev. Reliability Note::			DEM Ground Elev m::		78.9
Total Depth m::		2.9	Primary Name::		
Township::			Concession::		
Lot::			Municipality:		
Completion Date::		AUG-1965	Static Water Level::		-999.9
Primary Water Use::		Not Used	Sec. Water Use::		
--Details--					
Stratum ID:		218493730	Top Depth(m):		0.0
Bottom Depth(m):		0.0	Stratum Desc:		ASPHALT.
Stratum ID:		218493731	Top Depth(m):		0.0
Bottom Depth(m):		0.1	Stratum Desc:		FILL,GRAVEL.
Stratum ID:		218493732	Top Depth(m):		0.1
Bottom Depth(m):		2.1	Stratum Desc:		FILL,SAND-MEDIUM TO COARSE,SILT,CLAY. WET.
Stratum ID:		218493733	Top Depth(m):		2.1
Bottom Depth(m):		2.3	Stratum Desc:		ORGANIC,SAND-MEDIUM TO COARSE,SILT,CLAY.BLACK.
Stratum ID:		218493734	Top Depth(m):		2.3
Bottom Depth(m):		2.9	Stratum Desc:		SAND-MEDIUM TO COARSE,SILT,CLAY. BROWN,ALLUVIAL,WET, AGE POST- GLACIAL.

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
188	1 of 1	NNW/236.1	79.8	ON	BORE
Borehole ID: 640617 Use: Geotechnical/Geological Investigation Drill Method:: Power auger Easting:: 613730 Location Accuracy:: Elev. Reliability Note:: Total Depth m:: 1.5 Township:: Lot:: Completion Date:: AUG-1965 Primary Water Use:: Not Used		Type: Borehole Status:: UTM Zone:: 17 Northing:: 4822743 Orig. Ground Elev m:: 83.6 DEM Ground Elev m:: 83.7 Primary Name:: Concession:: Municipality: Static Water Level:: -999.9 Sec. Water Use::			
--Details--					
Stratum ID: 218492893 Bottom Depth(m): 0.0		Top Depth(m): 0.0 Stratum Desc: ASPHALT.			
Stratum ID: 218492894 Bottom Depth(m): 0.2		Top Depth(m): 0.0 Stratum Desc: FILL,GRAVEL.			
Stratum ID: 218492895 Bottom Depth(m): 1.5		Top Depth(m): 0.2 Stratum Desc: SAND-MEDIUM TO COARSE,SILT,CLAY. BROWN,ALLUVIAL, AGE POST-GLACIAL. . S			
189	1 of 1	NW/236.4	81.9	ON	BORE
Borehole ID: 640619 Use: Geotechnical/Geological Investigation Drill Method:: Power auger Easting:: 613675 Location Accuracy:: Elev. Reliability Note:: Total Depth m:: 1.5 Township:: Lot:: Completion Date:: AUG-1965 Primary Water Use:: Not Used		Type: Borehole Status:: UTM Zone:: 17 Northing:: 4822673 Orig. Ground Elev m:: 83.5 DEM Ground Elev m:: 83.7 Primary Name:: Concession:: Municipality: Static Water Level:: -999.9 Sec. Water Use::			
--Details--					
Stratum ID: 218492899 Bottom Depth(m): 0.0		Top Depth(m): 0.0 Stratum Desc: ASPHALT.			
Stratum ID: 218492900 Bottom Depth(m): 0.2		Top Depth(m): 0.0 Stratum Desc: FILL,GRAVEL.			
Stratum ID: 218492901 Bottom Depth(m): 0.9		Top Depth(m): 0.2 Stratum Desc: SAND-MEDIUM TO COARSE,SILT,CLAY. ALLUVIAL,AGE POST-GLACIAL.			
Stratum ID: 218492902 Bottom Depth(m): 1.5		Top Depth(m): 0.9 Stratum Desc: SAND-MEDIUM TO COARSE,SILT,CLAY. GREY,ALLUVIAL,WET, AGE POST-GLACIAL.			
190	1 of 1	N/237.2	79.7	119 - 121 Lakeshore Road West & 7 John Street South	EHS

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Mississauga ON					
Postal Code: City: Mississauga Address2: Address1: 119 - 121 Lakeshore Road West & 7 John Street South Provstate: ON Order No.: 20160512029 Addit. Info Ordered:: Report Date: 17-MAY-16 Report Type: Custom Report Search Radius (km): .25					
191	1 of 1	NNE/240.3	78.3	ON	BORE
Borehole ID: 640701 Use: Geotechnical/Geological Investigation Drill Method:: Power auger Easting:: 614265 Location Accuracy:: Elev. Reliability Note:: Total Depth m:: 1.2 Township:: Lot:: Completion Date:: AUG-1965 Primary Water Use:: Not Used					
Type: Borehole Status:: UTM Zone:: 17 Northing:: 4822683 Orig. Ground Elev m:: 78.9 DEM Ground Elev m:: 78.6 Primary Name:: Concession:: Municipality: Static Water Level:: -999.9 Sec. Water Use::					
--Details--					
Stratum ID: 218493224 Bottom Depth(m): 0.1					
Top Depth(m): 0.0 Stratum Desc: ASPHALT.					
Stratum ID: 218493225 Bottom Depth(m): 0.1					
Top Depth(m): 0.1 Stratum Desc: FILL,STONES.					
Stratum ID: 218493226 Bottom Depth(m): 0.6					
Top Depth(m): 0.1 Stratum Desc: SAND-MEDIUM TO COARSE,SILT,CLAY. BROWN,ALLUVIAL, AGE POST-GLACIAL.					
Stratum ID: 218493227 Bottom Depth(m): 0.9					
Top Depth(m): 0.6 Stratum Desc: SAND-MEDIUM TO COARSE,CLAY,SILT. ALLUVIAL,AGE POST-GLACIAL.					
Stratum ID: 218493228 Bottom Depth(m): 1.2					
Top Depth(m): 0.9 Stratum Desc: SAND-MEDIUM TO COARSE,SILT,CLAY. GREY,BROWN,ALLUVIAL, AGE POST-GLACIAL.					
192	1 of 1	SW/240.6	80.8	ON	BORE
Borehole ID: 640531 Use: Geotechnical/Geological Investigation Drill Method:: Power auger Easting:: 613695 Location Accuracy:: Elev. Reliability Note:: Total Depth m:: 1.4 Township:: Lot:: Completion Date:: APR-1966					
Type: Borehole Status:: UTM Zone:: 17 Northing:: 4821873 Orig. Ground Elev m:: 81.4 DEM Ground Elev m:: 81.9 Primary Name:: Concession:: Municipality: Static Water Level:: -999.9					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Primary Water Use::	Not Used			Sec. Water Use::	
--Details--					
Stratum ID:	218492541			Top Depth(m):	0.6
Bottom Depth(m):	1.4			Stratum Desc:	SAND-MEDIUM TO COARSE,SILT,CLAY. BROWN,ALLUVIAL, AGE POST-GLACIAL.
Stratum ID:	218492538			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	ASPHALT.
Stratum ID:	218492539			Top Depth(m):	0.1
Bottom Depth(m):	0.2			Stratum Desc:	FILL,GRAVEL,SAND, SILT. BROWN.
Stratum ID:	218492540			Top Depth(m):	0.2
Bottom Depth(m):	0.6			Stratum Desc:	SILT,SAND,CLAY. BROWN,ALLUVIAL, AGE POST-GLACIAL.

193	1 of 2	WNW/243.4	84.7	15 HARRISON AVE, MISSISSAUGA ON	INC
Incident No:	1530538				
Incident ID:					
Attribute Category:	FS-Perform L1 Incident Insp				
Status Code:					
Incident Location:	15 HARRISON AVE, MISSISSAUGA - SPILL				
Drainage System:					
Sub Surface Contam.:					
Aff. Prop. Use Water:					
Contam. Migrated:					
Contact Natural Env.:					
Near Body of Water:					
Approx. Quant. Rel.:					
Equipment Model:					
Serial No:					
Residential App. Type:					
Commercial App. Type:					
Industrial App. Type:					
Institutional App. Type:					
Venting Type:					
Vent Connector Mater:					
Vent Chimney Mater:					
Pipeline Type:					
Pipeline Involved:					
Pipe Material:					
Depth Ground Cover:					
Regulator Location:					
Regulator Type:					
Operation Pressure:					
Liquid Prop Make:					
Liquid Prop Model:					
Liquid Prop Serial No:					
Equipment Type:					
Cylinder Capacity:					
Cylinder Capac. Units:					
Cylinder Material Type:					
Tank Capacity:					
Fuels Occurrence Type:	Liquid Petroleum Spill				
Fuel Type Involved:	Fuel Oil				
Date of Occurrence:	2014/11/26 00:00:00				
Time of Occurrence:	NULL				
Occur Insp Start Date:	2014/11/26 00:00:00				
Any Health Impact:	No				
Any Environmental Impact:	Yes				

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Was Service Interrupted: Was Property Damaged: Operation Type Involved: Enforcement Policy: Prc Escalation Required: Task No: Notes: Occurrence Narrative: Tank Material Type: Tank Storage Type: Tank Location Type: Pump Flow Rate Capac: Liquid Prop Notes:		No Yes Construction Site (including excavation) NULL NULL 5272603 NULL NULL NULL NULL NULL NULL			
193	2 of 2	WNW/243.4	84.7	Unknown<UNOFFICIAL> 15 Harrison Ave Mississauga ON	SPL
Ref No: Contaminant Code: Contaminant Name: Contaminant Quantity: Incident Cause: Incident Dt: Incident Reason: Incident Summary: MOE Reported Dt: Environmental Impact: Nature of Impact: Receiving Medium: SAC Action Class: Sector Source Type: Receiving Environment: Incident Event: Site Municipality:		5628-9R8MFZ 13 FURNACE OIL 10 L Leak/Break 2014/11/26 Deliberate Act Crushed oil tank leaking residual on property 2014/11/26 Land TSSA - Fuel Safety Branch - Hydrocarbon Fuel Release/Spill Tank - Above Ground Mississauga			
194	1 of 1	SSW/244.8	79.7	ON	BORE
Borehole ID: Use: Drill Method:: Easting:: Location Accuracy:: Elev. Reliability Note:: Total Depth m:: Township:: Lot:: Completion Date:: Primary Water Use::		640525 Geotechnical/Geological Investigation Power auger 613855 613855 1.5 APR-1966 Not Used		Type: Status:: UTM Zone:: Northing:: Orig. Ground Elev m:: DEM Ground Elev m:: Primary Name:: Concession:: Municipality: Static Water Level:: Sec. Water Use::	Borehole 17 4821743 79.2 80 -999.9
--Details--					
Stratum ID: Bottom Depth(m):		218492517 0.1		Top Depth(m): Stratum Desc:	0.0 ASPHALT.
Stratum ID: Bottom Depth(m):		218492518 0.2		Top Depth(m): Stratum Desc:	0.1 FILL,GRAVEL,SAND, SILT. BROWN.
Stratum ID: Bottom Depth(m):		218492519 1.5		Top Depth(m): Stratum Desc:	0.2 SILT,SAND,CLAY. BROWN,ALLUVIAL,MOIST, AGE POST-GLACIAL. N,ALLUVI

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
195	1 of 1	N/244.9	79.7	DELIGHTS BAKERY 119 LAKESHORE RD W UNIT 6 MISSISSAUGA ON L5H 1E9	SCT
Established: 1999 Plant Size (ft²): 1600 Employment: 4					
--Details-- Description: Commercial Bakeries and Frozen Bakery Product Manufacturing SIC/NAICS Code: 311814					
196	1 of 1	NW/246.8	82.0	ON	WWIS
Well ID: 7231231 Construction Date:: Primary Water Use:: Sec. Water Use:: Final Well Status:: Specific Capacity:: Municipality: MISSISSAUGA CITY (PORT CREDIT) County: PEEL Lot: Concession: Concession Name: Easting NAD83:: Northing NAD83:: Zone:: UTM Reliability::					
Bore Hole Information -- Bore Hole ID: 1005281267 DP2BR: Code OB: Code OB Description: Open Hole: Date Completed: 29-OCT-10 Remarks: Zone: 17 East 83: 613578 North 83: 4822564 UTMRC: 4 UTMRC Description: margin of error : 30 m - 100 m Location Method: wwr Org CS: UTM83 Elevation: Elevrc: Elevrc Description: Location Source Date: Source Revision Comment: Improvement Location Source: Improvement Location Method: Supplier Comment: Spatial Status: -- --					
197	1 of 1	NNE/246.9	79.5	ON	BORE
Borehole ID: 640707 Use: Geotechnical/Geological Investigation Drill Method:: Power auger Easting:: 614175 Location Accuracy:: Type: Borehole Status:: UTM Zone:: 17 Northing:: 4822758 Orig. Ground Elev m:: 79.6					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Elev. Reliability Note:: Total Depth m:: 1.2 Township:: Lot:: Completion Date:: AUG-1965 Primary Water Use:: Not Used					
DEM Ground Elev m:: 79.6 Primary Name:: Concession:: Municipality: Static Water Level:: -999.9 Sec. Water Use::					
--Details--					
Stratum ID: 218493254 Bottom Depth(m): 0.0					
Top Depth(m): 0.0 Stratum Desc: ASPHALT.					
Stratum ID: 218493255 Bottom Depth(m): 0.1					
Top Depth(m): 0.0 Stratum Desc: FILL,STONES.					
Stratum ID: 218493256 Bottom Depth(m): 0.6					
Top Depth(m): 0.1 Stratum Desc: SOIL,SAND-MEDIUM, SILT,CLAY. BLACK.					
Stratum ID: 218493257 Bottom Depth(m): 1.2					
Top Depth(m): 0.6 Stratum Desc: SAND-MEDIUM TO COARSE,SILT,CLAY. BROWN,ALLUVIAL,WET, AGE POST-GLACIAL.					
198	1 of 2	NNE/250.5	79.6	MISSISSAUGA HYDRO PCB 11 JOHN ST. S. C/O 3354 MAVIS RD. MISSISSAUGA ON L5H 2E3	GEN
PO Box Num: Status: Country: Generator #: ON0124333 Approval Yrs:: 90 SIC Code: 0000 SIC Description: *** NOT DEFINED ***					
198	2 of 2	NNE/250.5	79.6	MISSISSAUGA HYDRO PCB 00-000 11 JOHN ST. S. C/O 3354 MAVIS RD. MISSISSAUGA ON L5H 2E3	GEN
PO Box Num: Status: Country: Generator #: ON0124333 Approval Yrs:: 92,93,94 SIC Code: 0000 SIC Description: *** NOT DEFINED ***					
199	1 of 1	W/251.4	85.8	ON	BORE
Borehole ID: 640752 Use: Geotechnical/Geological Investigation Drill Method:: Power auger Easting:: 613380 Location Accuracy:: Elev. Reliability Note:: Total Depth m:: 1.5 Township:: Lot:: Completion Date:: NOV-1966 Primary Water Use:: Not Used					
Type: Borehole Status:: UTM Zone:: 17 Northing:: 4822233 Orig. Ground Elev m:: 86.2 DEM Ground Elev m:: 86 Primary Name:: Concession:: Municipality: Static Water Level:: -999.9 Sec. Water Use::					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
--Details--					
Stratum ID:	218493425			Top Depth(m):	0.0
Bottom Depth(m):	0.2			Stratum Desc:	FILL,SAND,SILT, GRAVEL. BROWN.
Stratum ID:	218493426			Top Depth(m):	0.2
Bottom Depth(m):	1.5			Stratum Desc:	SAND-MEDIUM TO COARSE,SILT,CLAY. BROWN,ALLUVIAL,MOIST, AGE POST-GLACIAL. ,
200	1 of 1	WSW/251.9	83.0	ON	BORE
Borehole ID:	637837			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Hand auger			UTM Zone::	17
Easting::	613455			Northing::	4822048
Location Accuracy::				Orig. Ground Elev m::	84
Elev. Reliability Note::				DEM Ground Elev m::	84
Total Depth m::	1.5			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	AUG-1965			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
--Details--					
Stratum ID:	218481914			Top Depth(m):	0.0
Bottom Depth(m):	0.5			Stratum Desc:	ASPHALT.
Stratum ID:	218481915			Top Depth(m):	0.5
Bottom Depth(m):	0.9			Stratum Desc:	FILL,SAND,SILT,CLAY.BROWN.
Stratum ID:	218481916			Top Depth(m):	0.9
Bottom Depth(m):	1.5			Stratum Desc:	SAND-MEDIUM TO COARSE,SILT,CLAY. GREY,GLACIAL,WET,AGE GLACIAL. D(26
201	1 of 1	WNW/254.8	84.8	17 HARRISON AVENUE, MISSISSAUGA ON	INC
Incident No:	1530984				
Incident ID:					
Attribute Category:	FS-Perform L1 Near Miss Insp				
Status Code:					
Incident Location:	17 HARRISON AVENUE, MISSISSAUGA - NEAR MISS				
Drainage System:					
Sub Surface Contam.:					
Aff. Prop. Use Water:					
Contam. Migrated:					
Contact Natural Env.:					
Near Body of Water:					
Approx. Quant. Rel.:					
Equipment Model:					
Serial No:					
Residential App. Type:					
Commercial App. Type:					
Industrial App. Type:					
Institutional App. Type:					
Venting Type:					
Vent Connector Mater:					
Vent Chimney Mater:					
Pipeline Type:					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Pipeline Involved: Pipe Material: Depth Ground Cover: Regulator Location: Regulator Type: Operation Pressure: Liquid Prop Make: Liquid Prop Model: Liquid Prop Serial No: Equipment Type: Cylinder Capacity: Cylinder Capac. Units: Cylinder Material Type: Tank Capacity: Fuels Occurrence Type: Other Fuel Type Involved: Natural Gas Date of Occurrence: 2014/11/26 00:00:00 Time of Occurrence: NULL Occur Insp Start Date: 2014/11/26 00:00:00 Any Health Impact: No Any Environmental Impact: No Was Service Interrupted: No Was Property Damaged: No Operation Type Involved: Construction Site (excluding pipeline strike) Enforcement Policy: NULL Prc Escalation Required: NULL Task No: 5273080 Notes: Occurrence Narrative: NULL Tank Material Type: Tank Storage Type: Tank Location Type: Pump Flow Rate Capac: Liquid Prop Notes:					
202	1 of 1	N/256.1	79.0	ON	BORE
Borehole ID: 647836 Use: Geotechnical/Geological Investigation Drill Method:: Hand auger Easting:: 614075 Location Accuracy:: Elev. Reliability Note:: Total Depth m:: .9 Township:: Lot:: Completion Date:: AUG-1965 Primary Water Use:: Not Used Type: Borehole Status:: UTM Zone:: 17 Northing:: 4822833 Orig. Ground Elev m:: 78.5 DEM Ground Elev m:: 78.7 Primary Name:: Concession:: Municipality: Static Water Level:: -999.9 Sec. Water Use::					
--Details--					
Stratum ID: 218520501 Bottom Depth(m): 0.2 Stratum ID: 218520502 Bottom Depth(m): 0.9 Top Depth(m): 0.0 Stratum Desc: ASPHALT. Top Depth(m): 0.2 Stratum Desc: SAND-MEDIUM TO COARSE,SILT,CLAY. BROWN,FLUVIO-GLACIAL, AGE GLACIAL. CIAL,STI					
203	1 of 1	SW/257.3	80.8	ON	BORE

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<hr/>					
Borehole ID:	640532			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Power auger			UTM Zone::	17
Easting::	613655			Northing::	4821883
Location Accuracy::				Orig. Ground Elev m::	83.2
Elev. Reliability Note::				DEM Ground Elev m::	82.5
Total Depth m::	1.5			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	APR-1966			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
--Details--					
Stratum ID:	218492543			Top Depth(m):	0.1
Bottom Depth(m):	0.2			Stratum Desc:	FILL,GRAVEL,SAND, SILT. BROWN.
Stratum ID:	218492544			Top Depth(m):	0.2
Bottom Depth(m):	1.5			Stratum Desc:	SAND-MEDIUM TO COARSE,SILT,CLAY. BROWN,ALLUVIAL, AGE POST-GLACIAL. E,SILT
Stratum ID:	218492542			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	ASPHALT.
<hr/>					
204	1 of 1	N/257.8	78.9	PEERS HARDWARE 113 LAKESHORE ROAD WEST PORT CREDIT ON L5H 1E9	PES
Detail Licence No.:					
Licence Type:	Vendor				
<hr/>					
205	1 of 1	N/258.2	79.8	ON	BORE
Borehole ID:	640591			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Power auger			UTM Zone::	17
Easting::	613985			Northing::	4822853
Location Accuracy::				Orig. Ground Elev m::	79.1
Elev. Reliability Note::				DEM Ground Elev m::	79.9
Total Depth m::	1.2			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	AUG-1965			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
--Details--					
Stratum ID:	218492791			Top Depth(m):	0.0
Bottom Depth(m):	0.0			Stratum Desc:	ASPHALT.
Stratum ID:	218492792			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	FILL,GRAVEL.
Stratum ID:	218492793			Top Depth(m):	0.1
Bottom Depth(m):	0.3			Stratum Desc:	SOIL,SAND,SILT,CLAY.BLACK.
Stratum ID:	218492794			Top Depth(m):	0.3
Bottom Depth(m):	1.2			Stratum Desc:	SAND,SILT,CLAY. BROWN,ALLUVIAL,WET, AGE GLACIAL. CO

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
206	1 of 1	WSW/258.5	84.6	ON	BORE
Borehole ID: 640504		Type: Borehole			
Use: Geotechnical/Geological Investigation		Status::			
Drill Method:: Power auger		UTM Zone:: 17			
Easting:: 613405		Northing:: 4822103			
Location Accuracy::		Orig. Ground Elev m:: 84.7			
Elev. Reliability Note::		DEM Ground Elev m:: 84.4			
Total Depth m:: 1.5		Primary Name::			
Township::		Concession::			
Lot::		Municipality:			
Completion Date:: NOV-1966		Static Water Level:: -999.9			
Primary Water Use:: Not Used		Sec. Water Use::			
--Details--					
Stratum ID: 218492437		Top Depth(m): 0.0			
Bottom Depth(m): 0.2		Stratum Desc: FILL, GRAVEL, STONES. BROWN.			
Stratum ID: 218492438		Top Depth(m): 0.2			
Bottom Depth(m): 0.7		Stratum Desc: SILT, SAND, CLAY. BROWN, ALLUVIAL, AGE POST-GLACIAL.			
Stratum ID: 218492439		Top Depth(m): 0.7			
Bottom Depth(m): 1.5		Stratum Desc: SAND-MEDIUM TO COARSE, SILT, CLAY. BLUE, ALLUVIAL, AGE POST-GLACIAL.			
207	1 of 1	NW/258.5	83.0	92, 94, and 96 Park Street with 250 Lake Shore Road West(Part 3 only) Mississauga(Port Credit) ON	EHS
Postal Code:					
City:					
Address2:					
Address1:					
Provstate:					
Order No.: 20100813017					
Addit. Info Ordered:: Fire Insur. Maps and/or Site Plans					
Report Date: 8/24/2010					
Report Type: Standard Report					
Search Radius (km): 0.25					
208	1 of 1	NNW/259.9	79.8	ON	BORE
Borehole ID: 640587		Type: Borehole			
Use: Geotechnical/Geological Investigation		Status::			
Drill Method:: Power auger		UTM Zone:: 17			
Easting:: 613850		Northing:: 4822823			
Location Accuracy::		Orig. Ground Elev m:: 79.7			
Elev. Reliability Note::		DEM Ground Elev m:: 80			
Total Depth m:: 1.5		Primary Name::			
Township::		Concession::			
Lot::		Municipality:			
Completion Date:: AUG-1965		Static Water Level:: -999.9			
Primary Water Use:: Not Used		Sec. Water Use::			
--Details--					
Stratum ID: 218492775		Top Depth(m): 0.0			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Bottom Depth(m):	0.0			Stratum Desc:	ASPHALT.
Stratum ID:	218492776			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	FILL, GRAVEL.
Stratum ID:	218492777			Top Depth(m):	0.1
Bottom Depth(m):	0.2			Stratum Desc:	FILL, SAND-MEDIUM TO COARSE, SILT, CLAY.
Stratum ID:	218492778			Top Depth(m):	0.2
Bottom Depth(m):	0.4			Stratum Desc:	SOIL, SAND-MEDIUM TO COARSE, SILT, CLAY. BLACK.
Stratum ID:	218492779			Top Depth(m):	0.4
Bottom Depth(m):	1.5			Stratum Desc:	SAND-MEDIUM TO COARSE, SILT, CLAY. GREY, ALLUVIAL, WET, AGE POST-GLACIAL.

209	1 of 1	SW/260.0	80.8	ON	BORE
Borehole ID:	640533			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Power auger			UTM Zone::	17
Easting::	613625			Northing::	4821903
Location Accuracy::				Orig. Ground Elev m::	83.9
Elev. Reliability Note::				DEM Ground Elev m::	83.7
Total Depth m::	1.8			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	APR-1966			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
--Details--					
Stratum ID:	218492545			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	ASPHALT.
Stratum ID:	218492546			Top Depth(m):	0.1
Bottom Depth(m):	0.2			Stratum Desc:	FILL, GRAVEL, SAND, SILT. BROWN.
Stratum ID:	218492547			Top Depth(m):	0.2
Bottom Depth(m):	1.8			Stratum Desc:	SAND-MEDIUM TO COARSE, SILT, CLAY. BROWN, ALLUVIAL, AGE POST-GLACIAL. E, SILT

210	1 of 1	NW/262.7	84.0	87 Park Street West Mississauga ON L5H 1L2	EHS
Postal Code:					
City:					
Address2:					
Address1:					
Provstate:					
Order No.:	20080225034				
Addit. Info Ordered::					
Report Date:	3/5/2008				
Report Type:	Basic Report				
Search Radius (km):	0.25				

211	1 of 1	NW/266.4	83.4	ON	BORE
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Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
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Borehole ID:	640621			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Power auger			UTM Zone::	17
Easting::	613595			Northing::	4822618
Location Accuracy::				Orig. Ground Elev m::	83.8
Elev. Reliability Note::				DEM Ground Elev m::	83.4
Total Depth m::	.9			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	AUG-1965			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
--Details--					
Stratum ID:	218492905			Top Depth(m):	0.0
Bottom Depth(m):	0.0			Stratum Desc:	ASPHALT.
Stratum ID:	218492906			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	FILL,STONES.
Stratum ID:	218492907			Top Depth(m):	0.1
Bottom Depth(m):	0.9			Stratum Desc:	SAND-MEDIUM TO COARSE,SILT,CLAY. BROWN,ALLUVIAL, AGE POST-GLACIAL.
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212	1 of 1	WNW/266.7	85.5	ON	BORE
Borehole ID:	640759			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Power auger			UTM Zone::	17
Easting::	613445			Northing::	4822423
Location Accuracy::				Orig. Ground Elev m::	85.6
Elev. Reliability Note::				DEM Ground Elev m::	85.3
Total Depth m::	2.4			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	NOV-1966			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
--Details--					
Stratum ID:	218493451			Top Depth(m):	0.0
Bottom Depth(m):	0.5			Stratum Desc:	FILL,SAND,SILT, GRAVEL. BROWN.
Stratum ID:	218493452			Top Depth(m):	0.5
Bottom Depth(m):	0.6			Stratum Desc:	CLAY,SILT,SAND. BROWN,LACUSTRINE,MOIST, AGE GLACIAL.
Stratum ID:	218493453			Top Depth(m):	0.6
Bottom Depth(m):	2.1			Stratum Desc:	TILL,CLAY(62), SILT(29),SAND. GREY,BROWN,GLACIAL, AGE GLACIAL.
Stratum ID:	218493454			Top Depth(m):	2.1
Bottom Depth(m):	2.4			Stratum Desc:	TILL,CLAY,SILT,SAND.GREY,GLACIAL,AGE GLACIAL. 022
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213	1 of 1	NW/271.2	82.8	ON	BORE
Borehole ID:	640581			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Drill Method:: Easting:: Location Accuracy:: Elev. Reliability Note:: Total Depth m:: Township:: Lot:: Completion Date:: Primary Water Use::	Power auger 613635 -999 AUG-1965 Not Used			UTM Zone:: Northing:: Orig. Ground Elev m:: DEM Ground Elev m:: Primary Name:: Concession:: Municipality: Static Water Level:: Sec. Water Use::	17 4822678 84.9 84.3 -999.9
--Details-- Stratum ID: Bottom Depth(m):	 218492753 			Top Depth(m): Stratum Desc:	0.0 ASPHALT. L,STONES
214	1 of 1	NW/271.8	83.6	ON	BORE
Borehole ID: Use: Drill Method:: Easting:: Location Accuracy:: Elev. Reliability Note:: Total Depth m:: Township:: Lot:: Completion Date:: Primary Water Use::	640620 Geotechnical/Geological Investigation Power auger 613615 1.2 AUG-1965 Not Used			Type: Status:: UTM Zone:: Northing:: Orig. Ground Elev m:: DEM Ground Elev m:: Primary Name:: Concession:: Municipality: Static Water Level:: Sec. Water Use::	Borehole 17 4822653 84.4 84.4 -999.9
--Details-- Stratum ID: Bottom Depth(m):	 218492903 0.1 			Top Depth(m): Stratum Desc:	0.0 ASPHALT.
Stratum ID: Bottom Depth(m):	218492904 1.2			Top Depth(m): Stratum Desc:	0.1 SAND-MEDIUM TO COARSE,SILT,CLAY. BROWN,ALLUVIAL, AGE POST-GLACIAL. AL. SAND
215	1 of 1	NNW/273.5	78.9	ON	BORE
Borehole ID: Use: Drill Method:: Easting:: Location Accuracy:: Elev. Reliability Note:: Total Depth m:: Township:: Lot:: Completion Date:: Primary Water Use::	640616 Geotechnical/Geological Investigation Power auger 613750 .9 AUG-1965 Not Used			Type: Status:: UTM Zone:: Northing:: Orig. Ground Elev m:: DEM Ground Elev m:: Primary Name:: Concession:: Municipality: Static Water Level:: Sec. Water Use::	Borehole 17 4822803 81.8 82.3 -999.9
--Details-- Stratum ID: Bottom Depth(m):	 218492890 0.0 			Top Depth(m): Stratum Desc:	0.0 ASPHALT.
Stratum ID: Bottom Depth(m):	218492891 0.1			Top Depth(m): Stratum Desc:	0.0 FILL,GRAVEL.

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Stratum ID: Bottom Depth(m):	218492892 0.9			Top Depth(m): Stratum Desc:	0.1 SAND-MEDIUM TO COARSE,SILT,CLAY. BROWN,ALLUVIAL, AGE POST-GLACIAL. . S

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1 of 1

SW/276.7

81.2

ON

BORE

Borehole ID: 640734
Use: Geotechnical/Geological Investigation
Drill Method:: Power auger
Easting:: 613585
Location Accuracy::
Elev. Reliability Note::
Total Depth m:: 1.8
Township::
Lot::
Completion Date:: APR-1966
Primary Water Use:: Not Used

Type: Borehole
Status::
UTM Zone:: 17
Northing:: 4821913
Orig. Ground Elev m:: 84.6
DEM Ground Elev m:: 84.4
Primary Name::
Concession::
Municipality:
Static Water Level:: -999.9
Sec. Water Use::

--Details--

Stratum ID: 218493362
Bottom Depth(m): 0.1

Top Depth(m): 0.0
Stratum Desc: ASPHALT.

Stratum ID: 218493363
Bottom Depth(m): 0.2

Top Depth(m): 0.1
Stratum Desc: FILL,GRAVEL,SAND, SILT. BROWN.

Stratum ID: 218493364
Bottom Depth(m): 0.6

Top Depth(m): 0.2
Stratum Desc: SAND-MEDIUM,SILT, CLAY.
GREY,ALLUVIAL, AGE POST-GLACIAL.

Stratum ID: 218493365
Bottom Depth(m): 1.8

Top Depth(m): 0.6
Stratum Desc: SAND-MEDIUM,SILT, CLAY.
BROWN,ALLUVIAL, AGE POST-GLACIAL.

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1 of 1

W/276.8

85.9

ON

BORE

Borehole ID: 640505
Use: Geotechnical/Geological Investigation
Drill Method:: Power auger
Easting:: 613355
Location Accuracy::
Elev. Reliability Note::
Total Depth m:: 3
Township::
Lot::
Completion Date:: NOV-1966
Primary Water Use:: Not Used

Type: Borehole
Status::
UTM Zone:: 17
Northing:: 4822213
Orig. Ground Elev m:: 85.2
DEM Ground Elev m:: 86.1
Primary Name::
Concession::
Municipality:
Static Water Level:: -999.9
Sec. Water Use::

--Details--

Stratum ID: 218492440
Bottom Depth(m): 0.2

Top Depth(m): 0.0
Stratum Desc: ASPHALT.

Stratum ID: 218492441
Bottom Depth(m): 0.6

Top Depth(m): 0.2
Stratum Desc: FILL,SAND-MEDIUM TO
COARSE,SILT,CLAY. BROWN.

Stratum ID: 218492442
Bottom Depth(m): 1.2

Top Depth(m): 0.6
Stratum Desc: ORGANIC,SAND-MEDIUM TO
COARSE,SILT,CLAY.BROWN,LACUSTRINE,
MOIST, AGE GLACIAL.

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
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Stratum ID:	218492443			Top Depth(m):	1.2
Bottom Depth(m):	3.0			Stratum Desc:	TILL,CLAY,SILT,SAND.GREY,BROWN,GLACIAL,STIFF, AGE GLACIAL.
<hr/>					
218	1 of 1	NW/277.8	81.9	ON	WWIS
Well ID:	7236052			Lot:	
Construction Date::				Concession:	
Primary Water Use::				Concession Name:	
Sec. Water Use::				Easting NAD83::	
Final Well Status::				Northing NAD83::	
Specific Capacity::				Zone::	
Municipality:	MISSISSAUGA CITY (PORT CREDIT)			UTM Reliability::	
County:	PEEL				
Bore Hole Information					
--	--				
Bore Hole ID:	1005290748				
DP2BR:					
Code OB:					
Code OB Description:					
Open Hole:					
Date Completed:	21-NOV-14				
Remarks:					
Zone:	17				
East 83:	613555				
North 83:	4822585				
UTMRC:	4				
UTMRC Description:	margin of error : 30 m - 100 m				
Location Method:	wwr				
Org CS:	UTM83				
Elevation:					
Elevrc:					
Elevrc Description:					
Location Source Date:					
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					
--	--				
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219	1 of 1	W/279.1	86.8	ON	BORE
Borehole ID:	640767			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Power auger			UTM Zone::	17
Easting::	613375			Northing::	4822338
Location Accuracy::				Orig. Ground Elev m::	86.9
Elev. Reliability Note::				DEM Ground Elev m::	86.7
Total Depth m::	1.8			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	NOV-1966			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
--Details--					
Stratum ID:	218493478			Top Depth(m):	0.0

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Bottom Depth(m):	0.5			Stratum Desc:	FILL,SAND,GRAVEL, SOIL. BROWN.
Stratum ID:	218493479			Top Depth(m):	0.5
Bottom Depth(m):	1.5			Stratum Desc:	SAND-MEDIUM TO COARSE,SILT,CLAY. BROWN,LACUSTRINE,MOIST, AGE GLACIAL.
Stratum ID:	218493480			Top Depth(m):	1.5
Bottom Depth(m):	1.8			Stratum Desc:	TILL,CLAY,SILT,SAND.GREY,BROWN,GLACI AL,VERY DENSE,AGE GLACIAL.
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220	1 of 1	N/279.2	78.2	N C C PUBLISHING MAGAZINE DIV 106 LAKESHORE RD W MISSISSAUGA ON L5H 1E8	SCT
Established:	1938				
Plant Size (ft²):	0				
Employment:	2				
<hr/>					
--Details--					
Description:	PERIODICALS: PUBLISHING, OR PUBLISHING & PRINTING				
SIC/NAICS Code:	2721				
<hr/>					
221	1 of 1	W/281.1	86.7	CONTRACTOR VACANT HOUSE AT 37 BENSON AVE. (N.O.S.) MISSISSAUGA CITY ON L5H 2P3	SPL
Ref No:	67680				
Contaminant Code:					
Contaminant Name:					
Contaminant Quantity:					
Incident Cause:	PIPE/HOSE LEAK				
Incident Dt:	2/28/1992				
Incident Reason:	ERROR				
Incident Summary:	CONTRACTOR- 9-12L FURNACE OIL TO GRASS, NOZZLE FELLOFF TRUCK DELIVERY HOSE.				
MOE Reported Dt:	3/5/1992				
Environmental Impact:	NOT ANTICIPATED				
Nature of Impact:	Soil Contamination				
Receiving Medium:	LAND				
SAC Action Class:					
Sector Source Type:					
Receiving Environment:					
Incident Event:					
Site Municipality:	21102				
<hr/>					
222	1 of 1	N/283.3	79.9	ON	BORE
Borehole ID:	640592			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Power auger			UTM Zone::	17
Easting::	613975			Northing::	4822878
Location Accuracy::				Orig. Ground Elev m::	80.2
Elev. Reliability Note::				DEM Ground Elev m::	80.1
Total Depth m::	1.2			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	AUG-1965			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
--Details--					
Stratum ID:	218492795			Top Depth(m):	0.0
Bottom Depth(m):	0.0			Stratum Desc:	ASPHALT.
Stratum ID:	218492796			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	FILL, GRAVEL.
Stratum ID:	218492797			Top Depth(m):	0.1
Bottom Depth(m):	1.2			Stratum Desc:	SAND-MEDIUM TO COARSE, SILT, CLAY. BROWN, ALLUVIAL, MOIST, AGE POST- GLACIAL. CO

223	1 of 1	NW/283.9	83.0	MISSISSAUGA ON	WWIS
Well ID:	4909832			Lot:	
Construction Date::				Concession:	
Primary Water Use::	Not Used			Concession Name:	
Sec. Water Use::				Easting NAD83::	
Final Well Status::	Observation Wells			Northing NAD83::	
Specific Capacity::				Zone::	
Municipality:	MISSISSAUGA CITY (PORT CREDIT)			UTM Reliability::	
County:	PEEL				
Bore Hole Information					
--	--				
Bore Hole ID:	11323565				
DP2BR:	10				
Code OB:	r				
Code OB Description:	Bedrock				
Open Hole:					
Date Completed:	15-MAR-05				
Remarks:					
Zone:	17				
East 83:	613562				
North 83:	4822604				
UTMRC:					
UTMRC Description:					
Location Method:	wwr				
Org CS:	UTM83				
Elevation:	82.38				
Elevrc:					
Elevrc Description:					
Location Source Date:					
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					
--	--				
Overburden and Bedrock Materials Interval					
--	--				
Formation ID:	933021560				
Layer:	1				
General Color:	BROWN				
Most Common Material:	CLAY				
Other Materials:					
Other Materials:	FILL				
Formation Top Depth:	0				
Formation End Depth:	3				
Formation End Depth UOM:	m				
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Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Formation ID:		933021561			
Layer:		2			
General Color:		GREY			
Most Common Material:		ROCK			
Other Materials:					
Other Materials:					
Formation Top Depth:		3			
Formation End Depth:		5			
Formation End Depth UOM:		m			
--		--			
Annular Space/Abandonment Sealing Record					
--		--			
Plug ID:		933272697			
Layer:		1			
Plug From:		0			
Plug To:		2.7			
Plug Depth UOM:		m			
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Method of Construction & Well Use					
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Method Construction ID:		964909832			
Method Construction Code:		6			
Method Construction:		Boring			
Other Method Construction:					
--		--			
Pipe Information					
--		--			
Pipe ID:		11338420			
Casing Number:		1			
Comment:					
Alt Name:					
--		--			
Construction Record - Casing					
--		--			
Casing ID:		930866621			
Layer:		1			
Open Hole or Material:		PLASTIC			
Depth From:		0			
Depth To:		3			
Casing Diameter:		5			
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
--		--			
--		--			
Construction Record - Screen					
--		--			
Screen ID:		933413610			
Layer:		1			
Slot:		10			
Screen Top Depth:		3			
Screen End Depth:		5			
Screen Material:		5			
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:		5			
--		--			
Hole Diameter					
--		--			
Hole ID:		11543446			
Diameter:		12			
Depth From:		0			
Depth To:		5			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
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224	1 of 1	WSW/286.3	82.8	R.M. OF PEEL BEN MACHREE/LAKESHORE RD.W. MISSISSAUGA CITY ON	CA
Certificate #: Application Year: Issue Date: Approval Type: Status: Application Type: Client Name:: Client Address:: Client City:: Client Postal Code:: Project Description:: Contaminants:: Emission Control::					
		3-0409-95- 95 5/3/1995 Municipal sewage Approved			
225	1 of 1	NNW/286.3	80.1	ON	BORE
Borehole ID: Use: Drill Method:: Easting:: Location Accuracy:: Elev. Reliability Note:: Total Depth m:: Township:: Lot:: Completion Date:: Primary Water Use::					
		640588 Geotechnical/Geological Investigation Power auger 613815 1.5 AUG-1965 Not Used			
Type: Status:: UTM Zone:: Northing:: Orig. Ground Elev m:: DEM Ground Elev m:: Primary Name:: Concession:: Municipality: Static Water Level:: Sec. Water Use::					
		Borehole 17 4822843 81.1 80.6 -999.9			
--Details-- Stratum ID: Bottom Depth(m): Stratum ID: Bottom Depth(m): Stratum ID: Bottom Depth(m): Stratum ID: Bottom Depth(m):					
		218492780 0.0 218492781 0.1 218492782 0.1 218492783 1.5			
		0.0 ASPHALT. 0.0 FILL,STONES. 0.1 SAND-MEDIUM TO COARSE,SILT,CLAY. BROWN,ALLUVIAL, AGE POST-GLACIAL. 0.1 SAND-MEDIUM TO COARSE,SILT,CLAY. GREY,ALLUVIAL, AGE POST-GLACIAL. AGE POST			
226	1 of 1	NNE/286.9	77.5	ON	BORE
Borehole ID: Use: Drill Method:: Easting:: Location Accuracy:: Elev. Reliability Note::					
		640706 Geotechnical/Geological Investigation Power auger 614195			
Type: Status:: UTM Zone:: Northing:: Orig. Ground Elev m:: DEM Ground Elev m::					
		Borehole 17 4822793 78.1 78.1			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Total Depth m:: Township:: Lot:: Completion Date:: Primary Water Use::	1.2 AUG-1965 Not Used			Primary Name:: Concession:: Municipality: Static Water Level:: Sec. Water Use::	 -999.9
--Details--					
Stratum ID: Bottom Depth(m):	218493251 0.0			Top Depth(m): Stratum Desc:	0.0 ASPHALT.
Stratum ID: Bottom Depth(m):	218493252 0.2			Top Depth(m): Stratum Desc:	0.0 FILL, GRAVEL.
Stratum ID: Bottom Depth(m):	218493253 1.2			Top Depth(m): Stratum Desc:	0.2 SAND-MEDIUM TO COARSE, SILT, CLAY. BROWN, ALLUVIAL, AGE POST-GLACIAL. D-MEDIUM
227	1 of 1	NNE/290.3	76.8	ON	BORE
Borehole ID: Use: Drill Method:: Easting:: Location Accuracy:: Elev. Reliability Note:: Total Depth m:: Township:: Lot:: Completion Date:: Primary Water Use::	640700 Geotechnical/Geological Investigation Power auger 614295 1.2 AUG-1965 Not Used			Type: Status:: UTM Zone:: Northing:: Orig. Ground Elev m:: DEM Ground Elev m:: Primary Name:: Concession:: Municipality: Static Water Level:: Sec. Water Use::	Borehole 17 4822723 78.2 77.6 -999.9
--Details--					
Stratum ID: Bottom Depth(m):	218493219 0.1			Top Depth(m): Stratum Desc:	0.0 ASPHALT.
Stratum ID: Bottom Depth(m):	218493220 0.4			Top Depth(m): Stratum Desc:	0.1 SAND-MEDIUM TO COARSE, SILT, CLAY. ALLUVIAL, AGE POST-GLACIAL.
Stratum ID: Bottom Depth(m):	218493221 0.9			Top Depth(m): Stratum Desc:	0.4 SAND-MEDIUM TO COARSE, SILT, CLAY. ALLUVIAL, AGE POST-GLACIAL.
Stratum ID: Bottom Depth(m):	218493222 1.0			Top Depth(m): Stratum Desc:	0.9 ORGANIC.
Stratum ID: Bottom Depth(m):	218493223 1.2			Top Depth(m): Stratum Desc:	1.0 SAND-MEDIUM TO COARSE, CLAY, SILT. ALLUVIAL, AGE POST-GLACIAL.
228	1 of 1	WSW/291.8	81.8	ON	BORE
Borehole ID: Use: Drill Method:: Easting:: Location Accuracy:: Elev. Reliability Note::	640735 Geotechnical/Geological Investigation Power auger 613535 			Type: Status:: UTM Zone:: Northing:: Orig. Ground Elev m:: DEM Ground Elev m::	Borehole 17 4821933 85.6 85.3

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Total Depth m:: Township:: Lot:: Completion Date:: Primary Water Use::	1.5 APR-1966 Not Used			Primary Name:: Concession:: Municipality: Static Water Level:: Sec. Water Use::	 -999.9
--Details--					
Stratum ID: Bottom Depth(m):	218493366 0.1			Top Depth(m): Stratum Desc:	0.0 ASPHALT.
Stratum ID: Bottom Depth(m):	218493367 0.2			Top Depth(m): Stratum Desc:	0.1 FILL, GRAVEL, SAND, SILT. BROWN.
Stratum ID: Bottom Depth(m):	218493368 0.8			Top Depth(m): Stratum Desc:	0.2 SILT, SAND, CLAY. BROWN, ALLUVIAL, WET, AGE POST-GLACIAL.
Stratum ID: Bottom Depth(m):	218493369 1.5			Top Depth(m): Stratum Desc:	0.8 SAND, SILT, CLAY. BROWN, ALLUVIAL, WET, AGE POST-GLACIAL. L.
229	1 of 12	N/291.8	78.1	SUNCOR ENERGY PRODUCTS INC 102 LAKESHORE RD W MISSISSAUGA ON L5H 1E8	EXP
Instance No: Instance ID: Instance Type: Description: Status: TSSA Program Area: Maximum Hazard Rank: Facility Type: Expired Date:	9792818 FS Facility EXPIRED 6/17/1993				
229	2 of 12	N/291.8	78.1	SUNCOR ENERGY PRODUCTS INC 102 LAKESHORE RD W MISSISSAUGA ON L5H 1E8	EXP
Instance No: Instance ID: Instance Type: Description: Status: TSSA Program Area: Maximum Hazard Rank: Facility Type: Expired Date:	10857440 FS Liquid Fuel Tank EXPIRED 6/17/1993				
229	3 of 12	N/291.8	78.1	SUNCOR ENERGY PRODUCTS INC 102 LAKESHORE RD W MISSISSAUGA ON	EXP
Instance No: Instance ID: Instance Type: Description: Status: TSSA Program Area: Maximum Hazard Rank:	10857455 46697 FS Liquid Fuel Tank FS Liquid Fuel Tank EXPIRED 				

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Facility Type: Expired Date:					
229	4 of 12	N/291.8	78.1	SUNCOR ENERGY PRODUCTS INC 102 LAKESHORE RD W MISSISSAUGA ON	EXP
Instance No: Instance ID: Instance Type: Description: Status: TSSA Program Area: Maximum Hazard Rank: Facility Type: Expired Date:		10857449 46654 FS Liquid Fuel Tank FS Liquid Fuel Tank EXPIRED			
229	5 of 12	N/291.8	78.1	SUNCOR ENERGY PRODUCTS INC 102 LAKESHORE RD W MISSISSAUGA ON	EXP
Instance No: Instance ID: Instance Type: Description: Status: TSSA Program Area: Maximum Hazard Rank: Facility Type: Expired Date:		10857473 46690 FS Liquid Fuel Tank FS Liquid Fuel Tank EXPIRED			
229	6 of 12	N/291.8	78.1	SUNCOR ENERGY PRODUCTS INC 102 LAKESHORE RD W MISSISSAUGA ON	EXP
Instance No: Instance ID: Instance Type: Description: Status: TSSA Program Area: Maximum Hazard Rank: Facility Type: Expired Date:		10857464 46729 FS Liquid Fuel Tank FS Liquid Fuel Tank EXPIRED			
229	7 of 12	N/291.8	78.1	SUNCOR ENERGY PRODUCTS INC 102 LAKESHORE RD W MISSISSAUGA ON L5H 1E8	EXP
Instance No: Instance ID: Instance Type: Description: Status: TSSA Program Area: Maximum Hazard Rank: Facility Type: Expired Date:		10857440 FS Liquid Fuel Tank FS Gasoline Station - Full Serve EXPIRED FS Liquid Fuel Tank 6/17/1993			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
229	8 of 12	N/291.8	78.1	SUNCOR ENERGY PRODUCTS INC 102 LAKESHORE RD W MISSISSAUGA ON L5H 1E8	EXP
Instance No: Instance ID: Instance Type: Description: Status: TSSA Program Area: Maximum Hazard Rank: Facility Type: Expired Date:		10857455 FS Liquid Fuel Tank FS Gasoline Station - Full Serve EXPIRED FS Liquid Fuel Tank 6/17/1993			
229	9 of 12	N/291.8	78.1	SUNCOR ENERGY PRODUCTS INC 102 LAKESHORE RD W MISSISSAUGA ON L5H 1E8	EXP
Instance No: Instance ID: Instance Type: Description: Status: TSSA Program Area: Maximum Hazard Rank: Facility Type: Expired Date:		10857449 FS Liquid Fuel Tank FS Gasoline Station - Full Serve EXPIRED FS Liquid Fuel Tank 6/17/1993			
229	10 of 12	N/291.8	78.1	SUNCOR ENERGY PRODUCTS INC 102 LAKESHORE RD W MISSISSAUGA ON L5H 1E8	EXP
Instance No: Instance ID: Instance Type: Description: Status: TSSA Program Area: Maximum Hazard Rank: Facility Type: Expired Date:		10857464 FS Liquid Fuel Tank FS Gasoline Station - Full Serve EXPIRED FS Liquid Fuel Tank 6/17/1993			
229	11 of 12	N/291.8	78.1	SUNCOR ENERGY PRODUCTS INC 102 LAKESHORE RD W MISSISSAUGA ON L5H 1E8	EXP
Instance No: Instance ID: Instance Type: Description: Status: TSSA Program Area: Maximum Hazard Rank: Facility Type: Expired Date:		10857473 FS Liquid Fuel Tank FS Gasoline Station - Full Serve EXPIRED FS Liquid Fuel Tank 6/17/1993			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
229	12 of 12	N/291.8	78.1	SUNOCO PORTSIDE SERVICE CENTRE INC 102 LAKESHORE RD W MISSISSAUGA ON L5H 1E8	PRT
Location ID:		9133			
Type:		retail			
Expiry Date:		1994-06-30			
Capacity (L):		177294			
Licence #:		0054402001			
230	1 of 1	WSW/292.3	82.8	362 Lakeshore Road West Mississauga ON L5H 1H3	EHS
Postal Code:					
City:					
Address2:					
Address1:					
Provstate:					
Order No.:		20050429024			
Addit. Info Ordered::		Fire Insur. Maps and/or Site Plans; Aerials Photos and/or Topographical Maps			
Report Date:		5/10/2005			
Report Type:					
Search Radius (km):		0.25			
231	1 of 1	NNE/293.5	77.3	CLIFFORD K. GOODMAN INC. 10 FRONT ST S MISSISSAUGA ON L5H 2C4	SCt
Established:		1979			
Plant Size (ft²):		2800			
Employment:		8			
<u>--Details--</u>					
Description:		Periodical Publishers			
SIC/NAICS Code:		511120			
Description:		Advertising Agencies			
SIC/NAICS Code:		541810			
232	1 of 1	NNW/294.1	79.6	ON	BORE
Borehole ID:		640615		Type:	Borehole
Use:		Geotechnical/Geological Investigation		Status::	
Drill Method::		Power auger		UTM Zone::	17
Easting::		613775		Northing::	4822838
Location Accuracy::				Orig. Ground Elev m::	80.5
Elev. Reliability Note::				DEM Ground Elev m::	80.3
Total Depth m::		1.4		Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::		AUG-1965		Static Water Level::	-999.9
Primary Water Use::		Not Used		Sec. Water Use::	
<u>--Details--</u>					
Stratum ID:		218492885		Top Depth(m):	0.0
Bottom Depth(m):		0.0		Stratum Desc:	ASPHALT.
Stratum ID:		218492886		Top Depth(m):	0.0

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Bottom Depth(m):	0.2			Stratum Desc:	FILL, GRAVEL.
Stratum ID:	218492887			Top Depth(m):	0.2
Bottom Depth(m):	0.3			Stratum Desc:	FILL, STONES.
Stratum ID:	218492888			Top Depth(m):	0.3
Bottom Depth(m):	0.3			Stratum Desc:	SAND-MEDIUM, SILT, CLAY. BROWN, ALLUVIAL, AGE POST-GLACIAL.
Stratum ID:	218492889			Top Depth(m):	0.3
Bottom Depth(m):	1.4			Stratum Desc:	SAND-MEDIUM TO COARSE, SILT, CLAY. BROWN, ALLUVIAL, WET, AGE POST-GLACIAL.

233	1 of 5	NNW/294.2	80.9	PEEL BOARD OF EDUCATION RIVERSIDE PUBLIC SCHOOL 30 JOHN ST. NORTH MISSISSAUGA ON L5H 2E8	GEN
PO Box Num: Status: Country: Generator #: ON0359867 Approval Yrs:: 86,87,88,89,90 SIC Code: 8511 SIC Description: ELEM.T./SECON. EDUC.					
--Details--					
Waste Code:		148			
Waste Description:		INORGANIC LABORATORY CHEMICALS			
Waste Code:		213			
Waste Description:		PETROLEUM DISTILLATES			
Waste Code:		263			
Waste Description:		ORGANIC LABORATORY CHEMICALS			

233	2 of 5	NNW/294.2	80.9	PEEL DISTRICT SCHOOL BOARD 30 John Street North Mississauga ON L5H 2E8	GEN
PO Box Num: Status: Country: Generator #: ON6864920 Approval Yrs:: 05 SIC Code: 611710 SIC Description: Educational Support Services					
--Details--					
Waste Code:		252			
Waste Description:		WASTE OILS & LUBRICANTS			

233	3 of 5	NNW/294.2	80.9	PEEL DISTRICT SCHOOL BOARD RIVERSIDE PUBLIC SCHOOL 30 JOHN STREET NORTH MISSISSAUGA ON L5H 2E8	GEN
PO Box Num:					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Status: Country: Generator #: ON0359867 Approval Yrs.: 98,99,00,01 SIC Code: 8511 SIC Description: ELEM.T./SECON. EDUC.					
--Details-- Waste Code: 148 Waste Description: INORGANIC LABORATORY CHEMICALS Waste Code: 213 Waste Description: PETROLEUM DISTILLATES Waste Code: 263 Waste Description: ORGANIC LABORATORY CHEMICALS					
233	4 of 5	NNW/294.2	80.9	PEEL BOARD OF EDUCATION 30-290 RIVERSIDE PUBLIC SCHOOL 30 JOHN ST. NORTH MISSISSAUGA ON L5H 2E8	GEN
PO Box Num: Status: Country: Generator #: ON0359867 Approval Yrs.: 92,93,94,95,96 SIC Code: 8511 SIC Description: ELEM.T./SECON. EDUC.					
--Details-- Waste Code: 148 Waste Description: INORGANIC LABORATORY CHEMICALS Waste Code: 213 Waste Description: PETROLEUM DISTILLATES Waste Code: 263 Waste Description: ORGANIC LABORATORY CHEMICALS					
233	5 of 5	NNW/294.2	80.9	PEEL DISTRICT SCHOOL BOARD RIVERSIDE PUBLIC SCHOOL 30 JOHN ST. NORTH MISSISSAUGA ON L5H 2E8	GEN
PO Box Num: Status: Country: Generator #: ON0359867 Approval Yrs.: 97 SIC Code: 8511 SIC Description: ELEM.T./SECON. EDUC.					
--Details-- Waste Code: 148 Waste Description: INORGANIC LABORATORY CHEMICALS Waste Code: 213 Waste Description: PETROLEUM DISTILLATES					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Waste Code:		263			
Waste Description:		ORGANIC LABORATORY CHEMICALS			
234	1 of 1	NNE/294.5	77.2	ON	BORE
Borehole ID:		640843		Type:	Borehole
Use:		Geotechnical/Geological Investigation		Status::	
Drill Method::		Power auger		UTM Zone::	17
Easting::		614275		Northing::	4822743
Location Accuracy::				Orig. Ground Elev m::	78
Elev. Reliability Note::				DEM Ground Elev m::	77.7
Total Depth m::		1.2		Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::		AUG-1965		Static Water Level::	-999.9
Primary Water Use::		Not Used		Sec. Water Use::	
--Details--					
Stratum ID:		218493735		Top Depth(m):	0.0
Bottom Depth(m):		0.1		Stratum Desc:	ASPHALT.
Stratum ID:		218493736		Top Depth(m):	0.1
Bottom Depth(m):		0.3		Stratum Desc:	SAND-MEDIUM TO COARSE,SILT,CLAY. ALLUVIAL,AGE POST-GLACIAL.
Stratum ID:		218493737		Top Depth(m):	0.3
Bottom Depth(m):		1.1		Stratum Desc:	SAND-MEDIUM TO COARSE,SILT,CLAY. BROWN,ALLUVIAL, AGE POST-GLACIAL.
Stratum ID:		218493738		Top Depth(m):	1.1
Bottom Depth(m):		1.2		Stratum Desc:	SAND-MEDIUM TO COARSE,CLAY,SILT. GREY,ALLUVIAL, AGE POST-GLACIAL.
235	1 of 1	NW/296.7	83.5	Mississauga ON	WWIS
Well ID:		7155367		Lot:	
Construction Date::				Concession:	
Primary Water Use::		Monitoring		Concession Name:	
Sec. Water Use::				Easting NAD83::	
Final Well Status::		Observation Wells		Northing NAD83::	
Specific Capacity::				Zone::	
Municipality:		MISSISSAUGA CITY (PORT CREDIT)		UTM Reliability::	
County:		PEEL			
Bore Hole Information					
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Bore Hole ID:		1003424521			
DP2BR:					
Code OB:					
Code OB Description:					
Open Hole:					
Date Completed:		24-SEP-10			
Remarks:					
Zone:		17			
East 83:		613555			
North 83:		4822616			
UTMRC:		3			
UTMRC Description:		margin of error : 10 - 30 m			
Location Method:		wwr			
Org CS:		UTM83			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Elevation:					
Elevrc:					
Elevrc Description:					
Location Source Date:					
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					
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Overburden and Bedrock Materials Interval					
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Formation ID:		1003526442			
Layer:		1			
General Color:		BROWN			
Most Common Material:		FILL			
Other Materials:					
Other Materials:		LOOSE			
Formation Top Depth:		0			
Formation End Depth:		8			
Formation End Depth UOM:		ft			
--		--			
Formation ID:		1003526443			
Layer:		2			
General Color:		BROWN			
Most Common Material:		CLAY			
Other Materials:		SILT			
Other Materials:		HARD			
Formation Top Depth:		8			
Formation End Depth:		12			
Formation End Depth UOM:		ft			
--		--			
Formation ID:		1003526444			
Layer:		3			
General Color:		GREY			
Most Common Material:		SHALE			
Other Materials:					
Other Materials:		DENSE			
Formation Top Depth:		12			
Formation End Depth:		51			
Formation End Depth UOM:		ft			
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Annular Space/Abandonment Sealing Record					
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Plug ID:		1003526447			
Layer:		1			
Plug From:		0			
Plug To:		1			
Plug Depth UOM:		ft			
--		--			
Plug ID:		1003526448			
Layer:		2			
Plug From:		1			
Plug To:		12			
Plug Depth UOM:		ft			
--		--			
Plug ID:		1003526449			
Layer:		3			
Plug From:		12			
Plug To:		44			
Plug Depth UOM:		ft			
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Method of Construction & Well Use					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
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Method Construction ID:		1003526454			
Method Construction Code:		7			
Method Construction:		Diamond			
Other Method Construction:		BORING			
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Pipe Information					
--	--	--	--	--	--
Pipe ID:		1003526441			
Casing Number:		0			
Comment:					
Alt Name:					
--	--	--	--	--	--
Construction Record - Casing					
--	--	--	--	--	--
Casing ID:		1003526451			
Layer:		1			
Open Hole or Material:		PLASTIC			
Depth From:		0			
Depth To:		46			
Casing Diameter:		1.8			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
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--	--	--	--	--	--
Construction Record - Screen					
--	--	--	--	--	--
Screen ID:		1003526452			
Layer:		1			
Slot:		.01			
Screen Top Depth:		46			
Screen End Depth:		51			
Screen Material:		5			
Screen Depth UOM:		ft			
Screen Diameter UOM:		inch			
Screen Diameter:		2			
--	--	--	--	--	--
Hole Diameter					
--	--	--	--	--	--
Hole ID:		1003526445			
Diameter:		10			
Depth From:		0			
Depth To:		12			
Hole Depth UOM:		ft			
Hole Diameter UOM:		inch			
--	--	--	--	--	--
Hole ID:		1003526446			
Diameter:		4			
Depth From:		12			
Depth To:		51			
Hole Depth UOM:		ft			
Hole Diameter UOM:		inch			
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--	--	--	--	--	--

236

1 of 1

N/296.7

81.0

ON

BORE

Borehole ID: 640593
Use: Geotechnical/Geological Investigation
Drill Method:: Power auger
Easting:: 613935
Location Accuracy::
Elev. Reliability Note::
Total Depth m:: 1.6

Type: Borehole
Status::
UTM Zone:: 17
Northing:: 4822888
Orig. Ground Elev m:: 80.8
DEM Ground Elev m:: 81
Primary Name::

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<hr/>					
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	AUG-1965			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
 --Details--					
Stratum ID:	218492798			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	ASPHALT.
Stratum ID:	218492799			Top Depth(m):	0.1
Bottom Depth(m):	0.1			Stratum Desc:	FILL,STONES.
Stratum ID:	218492800			Top Depth(m):	0.1
Bottom Depth(m):	0.9			Stratum Desc:	SAND-MEDIUM TO COARSE,SILT,CLAY. BROWN,ALLUVIAL, AGE POST-GLACIAL.
Stratum ID:	218492801			Top Depth(m):	0.9
Bottom Depth(m):	1.6			Stratum Desc:	SAND-MEDIUM TO COARSE,SILT,CLAY. BROWN,ALLUVIAL,WET, AGE POST-GLACIAL.
<hr/>					
<u>237</u>	1 of 1	W/296.8	86.8	ON	BORE
Borehole ID:	640753			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Power auger			UTM Zone::	17
Easting::	613335			Northing::	4822243
Location Accuracy::				Orig. Ground Elev m::	86.7
Elev. Reliability Note::				DEM Ground Elev m::	86.5
Total Depth m::	2.4			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	NOV-1966			Static Water Level::	-999.9
Primary Water Use::	Not Used			Sec. Water Use::	
 --Details--					
Stratum ID:	218493427			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	ASPHALT.
Stratum ID:	218493428			Top Depth(m):	0.1
Bottom Depth(m):	0.4			Stratum Desc:	FILL,SAND,SILT,CLAY.BROWN.
Stratum ID:	218493429			Top Depth(m):	0.4
Bottom Depth(m):	2.1			Stratum Desc:	SAND,SILT,CLAY. BROWN,ALLUVIAL,STIFF, AGE POST-GLACIAL.
Stratum ID:	218493430			Top Depth(m):	2.1
Bottom Depth(m):	2.4			Stratum Desc:	CLAY,SILT,SAND, STONES. GREY,ALLUVIAL,DENSE, AGE POST-GLACIAL.
<hr/>					
<u>238</u>	1 of 2	NW/297.2	83.5	Imperial Oil 92 - 96 Park Street West Mississauga ON L5H 1L2	GEN
PO Box Num:					
Status:	Registered				
Country:	Canada				
Generator #:	ON5201608				
Approval Yrs::	As of Sep 2016				

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
SIC Code: SIC Description:					
--Details--					
Waste Code:		252 L			
Waste Description:		Waste crankcase oils and lubricants			
Waste Code:		221 L			
Waste Description:		Light fuels			
Waste Code:		221 I			
Waste Description:		Light fuels			
Waste Code:		241 L			
Waste Description:		Halogenated solvents and residues			
Waste Code:		251 L			
Waste Description:		Waste oils/sludges (petroleum based)			
238	2 of 2	NW/297.2	83.5	Imperial Oil 92 - 96 Park Street West Mississauga ON	GEN
PO Box Num: Status: Country: Generator #: ON5201608 Approval Yrs:: 2013 SIC Code: 412110 SIC Description: PETROLEUM PRODUCT WHOLESALER-DISTRIBUTORS					
--Details--					
Waste Code:		251			
Waste Description:		OIL SKIMMINGS & SLUDGES			
Waste Code:		252			
Waste Description:		WASTE OILS & LUBRICANTS			
Waste Code:		241			
Waste Description:		HALOGENATED SOLVENTS			
Waste Code:		221			
Waste Description:		LIGHT FUELS			
239	1 of 1	NW/297.5	82.7	PORT CREDIT ON	WWIS
Well ID:	7148349			Lot:	
Construction Date::				Concession:	
Primary Water Use::	Monitoring			Concession Name:	
Sec. Water Use::				Easting NAD83::	
Final Well Status::	Abandoned-Other			Northing NAD83::	
Specific Capacity::				Zone::	
Municipality:	MISSISSAUGA CITY			UTM Reliability::	
County:	PEEL				
Bore Hole Information					
--	--				
Bore Hole ID:	1003163073				
DP2BR:					
Code OB:					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Code OB Description:					
Open Hole:					
Date Completed:		16-MAR-10			
Remarks:					
Zone:		17			
East 83:		613531			
North 83:		4822586			
UTMRC:		4			
UTMRC Description:		margin of error : 30 m - 100 m			
Location Method:		wwr			
Org CS:		UTM83			
Elevation:		81.78			
Elevrc:					
Elevrc Description:					
Location Source Date:					
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					
--		--			
Overburden and Bedrock Materials Interval					
--		--			
Formation ID:		1003223333			
Layer:					
General Color:					
Most Common Material:					
Other Materials:					
Other Materials:					
Formation Top Depth:					
Formation End Depth:					
Formation End Depth UOM:		m			
--		--			
Annular Space/Abandonment Sealing Record					
--		--			
Plug ID:		1003223335			
Layer:					
Plug From:		.3			
Plug To:		2			
Plug Depth UOM:		m			
--		--			
Plug ID:		1003223336			
Layer:					
Plug From:		2			
Plug To:		6.1			
Plug Depth UOM:		m			
--		--			
Method of Construction & Well Use					
--		--			
Method Construction ID:		1003223341			
Method Construction Code:		6			
Method Construction:		Boring			
Other Method Construction:					
--		--			
Pipe Information					
--		--			
Pipe ID:		1003223332			
Casing Number:		0			
Comment:					
Alt Name:					
--		--			
Construction Record - Casing					
--		--			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<hr/>					
Casing ID:		1003223338			
Layer:		1			
Open Hole or Material:					
Depth From:		0			
Depth To:		2			
Casing Diameter:					
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
--		--			
--		--			
Construction Record - Screen					
--		--			
Screen ID:		1003223339			
Layer:					
Slot:					
Screen Top Depth:					
Screen End Depth:					
Screen Material:					
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:					
--		--			
Hole Diameter					
--		--			
Hole ID:		1003223334			
Diameter:					
Depth From:					
Depth To:					
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
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<hr/>					
240	1 of 4	NW/298.0	82.6	Imperial Oil Limited 92 - 96 Park Street West Mississauga ON L5H 1L2	GEN
 PO Box Num:					
Status:					
Country:					
Generator #:					
Approval Yrs::					
SIC Code:					
SIC Description:					
 --Details--					
Waste Code:					
Waste Description:					
 Waste Code:					
Waste Description:					
 Waste Code:					
Waste Description:					
 Waste Code:					
Waste Description:					
<hr/>					
240	2 of 4	NW/298.0	82.6	Imperial Oil 92 - 96 Park Street West Mississauga ON L5H 1L2	GEN

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
PO Box Num: Status: Country: Generator #: Approval Yrs:: SIC Code: SIC Description:					
--Details-- Waste Code: Waste Description:					
Waste Code: Waste Description:					
Waste Code: Waste Description:					
Waste Code: Waste Description:					
Waste Code: Waste Description:					
240	3 of 4	NW/298.0	82.6	Imperial Oil Limited 92 - 96 Park Street West Mississauga ON L5H 1L2	GEN
PO Box Num: Status: Country: Generator #: Approval Yrs:: SIC Code: SIC Description:					
--Details-- Waste Code: Waste Description:					
Waste Code: Waste Description:					
Waste Code: Waste Description:					
Waste Code: Waste Description:					
Waste Code: Waste Description:					
240	4 of 4	NW/298.0	82.6	Imperial Oil Limited 92 - 96 Park Street West Mississauga ON L5H 1L2	GEN
PO Box Num: Status: Country: Generator #: Approval Yrs:: SIC Code: SIC Description:					
--Details-- Waste Code:					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Waste Description:		WASTE OILS & LUBRICANTS			
Waste Code:		221			
Waste Description:		LIGHT FUELS			
Waste Code:		241			
Waste Description:		HALOGENATED SOLVENTS			
Waste Code:		251			
Waste Description:		OIL SKIMMINGS & SLUDGES			
241	1 of 1	N/298.3	79.5	ON	BORE
Borehole ID:		640603		Type:	Borehole
Use:		Geotechnical/Geological Investigation		Status::	
Drill Method::		Power auger		UTM Zone::	17
Easting::		613975		Northing::	4822893
Location Accuracy::				Orig. Ground Elev m::	80.2
Elev. Reliability Note::				DEM Ground Elev m::	79.9
Total Depth m::		1.5		Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::		AUG-1965		Static Water Level::	-999.9
Primary Water Use::		Not Used		Sec. Water Use::	
--Details--					
Stratum ID:		218492837		Top Depth(m):	0.0
Bottom Depth(m):		0.0		Stratum Desc:	ASPHALT.
Stratum ID:		218492838		Top Depth(m):	0.0
Bottom Depth(m):		0.1		Stratum Desc:	FILL,STONES.
Stratum ID:		218492839		Top Depth(m):	0.1
Bottom Depth(m):		0.2		Stratum Desc:	FILL,SAND-MEDIUM, SILT,CLAY. GREY.
Stratum ID:		218492840		Top Depth(m):	0.2
Bottom Depth(m):		0.3		Stratum Desc:	ASPHALT.
Stratum ID:		218492841		Top Depth(m):	0.3
Bottom Depth(m):		0.5		Stratum Desc:	SAND-MEDIUM TO COARSE,SILT,CLAY. BROWN,ALLUVIAL, AGE POST-GLACIAL.
Stratum ID:		218492842		Top Depth(m):	0.5
Bottom Depth(m):		1.5		Stratum Desc:	SAND-MEDIUM TO COARSE,SILT,CLAY. BROWN,ALLUVIAL,WET, AGE POST-GLACIAL. CIA

Unplottable Summary

Total: **87** Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA	WILSONDALE INVESTMENTS INC./E. FERRARI	QUEEN ST. W./LORNE PARK PLAZA	MISSISSAUGA CITY ON	
CA	Ontario Power Generation Inc.	South of Lakeshore Boulevard	Mississauga ON	
CA	R.M. OF PEEL	FRONT ST. P.S.	MISSISSAUGA CITY ON	
CA	SETCHELL & MCKINNON LTD.	JOHN ST.	MISSISSAUGA CITY ON	
CA	740472 ONTARIO LIMITED	JOHN STREET OUTFALL	MISSISSAUGA CITY ON	
CA	R.M. OF PEEL	JOHN ST/LAKESHORE RD/HIGH ST.	MISSISSAUGA CITY ON	
CA	R.M. OF PEEL	JOHN ST/LAKESHORE RD/HIGH ST.	MISSISSAUGA CITY ON	
CA	LAKEWOOD BY THE PARK	LAKESHORE BLVD.	MISSISSAUGA CITY ON	
CA	CITY OF MISSISSAUGA	CLEARVIEW CREEK LAKESHORE RD.	MISSISSAUGA CITY ON	
CA	G.L. BALL CLEARVIEW CREEK CANNELIZATION	LAKESHORE RD.	MISSISSAUGA CITY ON	
CA	MISSISSAUGA CITY	LAKESHORE RD. TURTLE CREEK	MISSISSAUGA CITY ON	
CA	Lorne Park Water Treatment Plant	Lakeshore Rd. West	Mississauga ON	
CA	DANIELS DEVELOPMENT CORPORATION	MEADOWPINE BOULEVARD	MISSISSAUGA CITY ON	
CA	DANIELS DEVELOPMENT CORPORATION	MEADOWPINE BOULEVARD	MISSISSAUGA CITY ON	
CA	WINSTON-DUNDAS HOLDINGS LIMITED	MISSISSAUGA RD.	MISSISSAUGA CITY ON	
CA	GLAXO CANADA INC.	MISSISSAUGA RD.	MISSISSAUGA CITY ON	
CA	MISSISSAUGA CITY	HIGH STREET, PORT CREDIT	MISSISSAUGA CITY ON	

CA	WINSTON-DUNDAS HOLDINGS LIMITED	MISSISSAUGA RD.	MISSISSAUGA CITY ON	
CA	R.M. OF PEEL	MISSISSAUGA RD.	MISSISSAUGA CITY ON	
CA	J.D.MCKICHAN	MISSISSAUGA RD.	MISSISSAUGA ON	
CA	GLAXO CANADA INC.	MISSISSAUGA RD.	MISSISSAUGA CITY ON	
CA	CITY	MISSISSAUGA RD.	MISSISSAUGA ON	
CA	THE ERIN MILLS DEVELOPMENT CORP.	MISSISSAUGA RD. 202A & 202B	MISSISSAUGA CITY ON	
CA	The Regional Municipality of Peel	Mississauga Road	Mississauga ON	
CA		Mississauga Road	Mississauga ON	
CA	LAPAD DEVELOPMENTS LAPAD SUBD.	STREET A MISSISSAUGA RD.	MISSISSAUGA CITY ON	
CA	LAPAD DEVELOPMENTS LTD. LAPAD SUBD.	STREET A MISSISSAUGA RD.	MISSISSAUGA CITY ON	
CA	MISSISSAUGA CITY MISSISSAUGA VALLEY BLVD	TRISHA DOWNS MISSISSAUGA RD.	MISSISSAUGA CITY ON	
CA	R.M. OF PEEL - LOT 8, RANGE 1 CIR	MISSISSAUGA RD./QUEEN ST.	MISSISSAUGA CITY ON	
CA	WHITNEY HOMES	QUEEN ST. STREET A	MISSISSAUGA CITY ON	
CA	WILSONDALE INVESTMENTS INC./E. FERRARI	QUEEN ST. W./LORN PARK PLAZA	MISSISSAUGA CITY ON	
CA	PPM CANADA INC.	MOBILE PCB UNIT 8-3048-88	MISSISSAUGA CITY ON	
CONV	LOBLAWS SUPERMARKETS LIMITED		ON	
EBR	Petro-Canada Products		City of Mississauga ON	
GEN	The City of Mississauga	1 Port Street	Mississauga ON	L5G 4N1
NATE	TEXACO		MISSISSAUGA ON	
NATE	TEXACO		MISSISSAUGA ON	
NATE	TEXACO		MISSISSAUGA ON	
NATE	TEXACO		MISSISSAUGA ON	
NATE	TEXACO		PPORTCREDIT ON	

NATE	TEXACO	PORTCREDIT ON
NATE	TEXACOINC	PORTCREDIT ON
NATE	TEXACOINC	PORTCREDIT ON
NATE	TEXACOCANADA	MISSISSAUGA ON
NEES	TEXACO	MISSISSAUGA ON
NEES	TRANS-NORTHERN PIPELINES INC.	MISSISSAUGA CITY ON
NEES	PETRO-CANADA	MISSISSAUGA CITY ON
NEES	PETRO-CANADA	MISSISSAUGA CITY ON
NEES	TEXACO	MISSISSAUGA ON
NEES	PETRO-CANADA	MISSISSAUGA CITY ON
NEES	TEXACO	PPORTCREDIT ON
NEES	TEXACO	MISSISSAUGA ON
NEES	PETRO-CANADA	MISSISSAUGA CITY ON
NEES	PETRO-CANADA	MISSISSAUGA CITY ON
NEES	TEXACOCANADA	MISSISSAUGA ON
NEES	TEXACO	PORTCREDIT ON
NEES	PETRO-CANADA	MISSISSAUGA CITY ON
NEES	TEXACO	MISSISSAUGA CITY ON
NEES	TEXACO	MISSISSAUGA ON
NEES	TEXACOINC	PORTCREDIT ON
NEES	TEXACO	MISSISSAUGA CITY ON
NEES	TEXACOINC	PORTCREDIT ON
NEES	PETRO-CANADA	MISSISSAUGA CITY ON

NEES	PETRO-CANADA		MISSISSAUGA CITY ON
SPL		under Lakeshore Road	Mississauga ON
SPL	York Disposal Services Limited	Lakeshore Road West CORNER OF LAKESHORE RD. AND LORNE PARK DR., MISSISSAUGA, ON<UNOFFICIAL>	Mississauga ON
SPL		Lakeshore Road West	Mississauga ON
SPL	The Corporation of the City of Mississauga	RICHARDS MEMORIAL PARK, NEAR LAKESHORE RD.<UNOFFICIAL>	Mississauga ON
SPL	GREEN SPACE SERVICES(SEARS LAW	JACK DARLING PARK,LAKESHORE ROAD. TANK TRUCK (CARGO)	MISSISSAUGA CITY ON
SPL		Credit River and Lakeshore Rd. CREDIT RIVER<UNOFFICIAL>	Mississauga ON
SPL		GARDINER & EDGELIEGH AND ENDING AT OGDEN & LAKESHORE AVE<UNOFFICIAL>	Mississauga ON
SPL		PETRO-CANADA SERVICE STATION \	MISSISSAUGA CITY ON
SPL	ZINTARI (CARGO SHIP)	LAKE ONTARIO, CLARKSON PETRO-CANADA REFINERY DOCK, SOUTH MISSISSAUGA LARGE OCEAN/ST. LAWRENCE TANKER (CARGO)	MISSISSAUGA CITY ON
SPL	MARINE VESSEL	LAKE ONTARIO AT THE PETRO-CANADA REFINERY DOCK AT CLARKSON	MISSISSAUGA CITY ON
SPL	PETRO-CANADA	TANK TRUCK (CARGO)	MISSISSAUGA CITY ON
SPL	PETRO-CANADA	SERVICE STATION	MISSISSAUGA CITY ON
SPL	IMPERIAL OIL	ESSO SERVICE STATION	MISSISSAUGA CITY ON
SPL	IMPERIAL OIL	ESSO SERVICE STATION	MISSISSAUGA CITY ON
SPL	IMPERIAL OIL LTD.	BULK STATION/STORAGE DEPOT	MISSISSAUGA CITY ON
SPL	Imperial Oil Limited		Mississauga ON
SRDS	PETRO-CANADA LUBRICANTS INC.		MISSISSAUGA ON
SRDS	PETRO-CANADA LUBRICANTS INC.		MISSISSAUGA ON
SRDS	PETRO-CANADA LUBRICANTS INC.		MISSISSAUGA ON
SRDS	PETRO-CANADA PRODUCTS - MISSISSAUGA LUBRICANTS CENTER		MISSISSAUGA ON

SRDS	PETRO-CANADA LUBRICANTS INC.	MISSISSAUGA ON
WDS	Petro-Canada	Mississauga ON
WDS	Petro-Canada	Mississauga ON

Unplottable Report

Site: WILSONDALE INVESTMENTS INC./E. FERRARI
QUEEN ST. W./LORNE PARK PLAZA MISSISSAUGA CITY ON

Database:
CA

Certificate #: 3-0595-89-
Application Year: 89
Issue Date: 4/17/1989
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: Ontario Power Generation Inc.
South of Lakeshore Boulevard Mississauga ON

Database:
CA

Certificate #: 2854-863S4L
Application Year: 2010
Issue Date: 6/18/2010
Approval Type: Industrial Sewage Works
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: R.M. OF PEEL
FRONT ST. P.S. MISSISSAUGA CITY ON

Database:
CA

Certificate #: 3-1638-89-
Application Year: 89
Issue Date: 11/21/1989
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: SETCHELL & MCKINNON LTD.
JOHN ST. MISSISSAUGA CITY ON

Database:
CA

Certificate #: 3-0605-88-

Application Year: 88
Issue Date: 4/19/1988
Approval Type: Municipal sewage
Status: Cancelled
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: 740472 ONTARIO LIMITED
JOHN STREET OUTFALL MISSISSAUGA CITY ON

Database:
CA

Certificate #: 3-0486-88-
Application Year: 88
Issue Date: 4/6/1988
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: R.M. OF PEEL
JOHN ST/LAKESHORE RD/HIGH ST. MISSISSAUGA CITY ON

Database:
CA

Certificate #: 3-1331-95-
Application Year: 95
Issue Date: 9/29/1995
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: R.M. OF PEEL
JOHN ST/LAKESHORE RD/HIGH ST. MISSISSAUGA CITY ON

Database:
CA

Certificate #: 7-0946-95-
Application Year: 95
Issue Date: 9/29/1995
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: LAKEWOOD BY THE PARK
LAKESHORE BLVD. MISSISSAUGA CITY ON

Database:
CA

Certificate #: 3-0130-88-
Application Year: 88
Issue Date: 2/11/1988
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: CITY OF MISSISSAUGA
CLEARVIEW CREEK LAKESHORE RD. MISSISSAUGA CITY ON

Database:
CA

Certificate #: 3-1542-88-
Application Year: 88
Issue Date: 10/21/1988
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: G.L. BALL CLEARVIEW CREEK CANNELIZATION
LAKESHORE RD. MISSISSAUGA CITY ON

Database:
CA

Certificate #: 3-1828-88-
Application Year: 88
Issue Date: 9/28/1988
Approval Type: Municipal sewage
Status: Cancelled
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: MISSISSAUGA CITY
LAKESHORE RD. TURTLE CREEK MISSISSAUGA CITY ON

Database:
CA

Certificate #: 3-1566-87-
Application Year: 87
Issue Date: 9/4/1987
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name::
Client Address::

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

Site: Lorne Park Water Treatment Plant
Lakeshore Rd. West Mississauga ON

Database:
CA

Certificate #: 0370-4GEQMA
Application Year: 00
Issue Date: 2/17/00
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name:: Corporation of the Regional Municipality of Peel
Client Address:: 10 Peel Centre Drive
Client City:: Brampton
Client Postal Code:: L6T 4B9
Project Description:: Removal of existing anthracite and a portion of the sand media from the existing filters 1-8 at the Lorne Park water Treatment Plant and replacement with new sand Granular Activated Carbon (GAC) filter media.
Contaminants::
Emission Control::

Site: DANIELS DEVELOPMENT CORPORATION
MEADOWPINE BOULEVARD MISSISSAUGA CITY ON

Database:
CA

Certificate #: 3-0986-89-
Application Year: 89
Issue Date: 6/7/1989
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: DANIELS DEVELOPMENT CORPORATION
MEADOWPINE BOULEVARD MISSISSAUGA CITY ON

Database:
CA

Certificate #: 7-0837-89-
Application Year: 89
Issue Date: 6/7/1989
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: WINSTON-DUNDAS HOLDINGS LIMITED
MISSISSAUGA RD. MISSISSAUGA CITY ON

Database:
CA

Certificate #: 3-0183-89-

Application Year: 89
Issue Date: 2/17/1989
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: GLAXO CANADA INC.
MISSISSAUGA RD. MISSISSAUGA CITY ON

Database:
CA

Certificate #: 7-1542-89-
Application Year: 89
Issue Date: 9/15/1989
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: MISSISSAUGA CITY
HIGH STREET, PORT CREDIT MISSISSAUGA CITY ON

Database:
CA

Certificate #: 3-1102-93-
Application Year: 93
Issue Date: 9/27/1993
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: WINSTON-DUNDAS HOLDINGS LIMITED
MISSISSAUGA RD. MISSISSAUGA CITY ON

Database:
CA

Certificate #: 7-0171-89-
Application Year: 89
Issue Date: 2/17/1989
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: R.M. OF PEEL
MISSISSAUGA RD. MISSISSAUGA CITY ON

Database:
CA

Certificate #: 3-1519-86-
Application Year: 86
Issue Date: 9/30/1986
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: J.D.MCKICHAN
MISSISSAUGA RD. MISSISSAUGA ON

Database:
CA

Certificate #: 3-0901-85-006
Application Year: 85
Issue Date: 8/8/85
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: GLAXO CANADA INC.
MISSISSAUGA RD. MISSISSAUGA CITY ON

Database:
CA

Certificate #: 3-1852-89-
Application Year: 89
Issue Date: 9/15/1989
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: CITY
MISSISSAUGA RD. MISSISSAUGA ON

Database:
CA

Certificate #: 3-0817-85-006
Application Year: 85
Issue Date: 8/20/85
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name::
Client Address::

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

Site: THE ERIN MILLS DEVELOPMENT CORP.
MISSISSAUGA RD. 202A & 202B MISSISSAUGA CITY ON

Database:
CA

Certificate #: 7-0485-87-
Application Year: 87
Issue Date: 4/27/1987
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: The Regional Municipality of Peel
Mississauga Road Mississauga ON

Database:
CA

Certificate #: 8748-5SLRBG
Application Year: 2003
Issue Date: 10/24/2003
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: Mississauga Road Mississauga ON

Database:
CA

Certificate #: 5457-4WZRKN
Application Year: 01
Issue Date: 5/31/01
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name:: Corporation of the Regional Municipality of Peel
Client Address:: 10 Peel Centre Drive
Client City:: Brampton
Client Postal Code:: L6T 4B9
Project Description:: This application is for construction of watermains and appurtenances in conjunction with Project No. 00-1310 on Mississauga Road.
Contaminants::
Emission Control::

Site: LAPAD DEVELOPMENTS LAPAD SUBD.
STREET A MISSISSAUGA RD. MISSISSAUGA CITY ON

Database:
CA

Certificate #: 3-2053-87-

Application Year: 87
Issue Date: 3/8/1988
Approval Type: Municipal sewage
Status: Approved in 1988
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: LAPAD DEVELOPMENTS LTD. LAPAD SUDB.
STREET A MISSISSAUGA RD. MISSISSAUGA CITY ON

Database:
CA

Certificate #: 7-1734-87-
Application Year: 87
Issue Date: 3/8/1988
Approval Type: Municipal water
Status: Approved in 1988
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: MISSISSAUGA CITY MISSISSAUGA VALLEY BLVD
TRISHA DOWNS MISSISSAUGA RD. MISSISSAUGA CITY ON

Database:
CA

Certificate #: 3-1938-89-
Application Year: 89
Issue Date: 10/2/1989
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: R.M. OF PEEL - LOT 8, RANGE 1 CIR
MISSISSAUGA RD./QUEEN ST. MISSISSAUGA CITY ON

Database:
CA

Certificate #: 7-0080-92-
Application Year: 92
Issue Date: 2/12/1992
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: WHITNEY HOMES
QUEEN ST. STREET A MISSISSAUGA CITY ON

Database:
CA

Certificate #: 3-1810-88-
Application Year: 88
Issue Date: 10/3/1988
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: WILSONDALE INVESTMENTS INC./E. FERRARI
QUEEN ST. W./LORN PARK PLAZA MISSISSAUGA CITY ON

Database:
CA

Certificate #: 7-0523-89-
Application Year: 89
Issue Date: 4/17/1989
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: PPM CANADA INC.
MOBILE PCB UNIT 8-3048-88 MISSISSAUGA CITY ON

Database:
CA

Certificate #: 8-3081-88-
Application Year: 88
Issue Date: 7/5/1988
Approval Type: Industrial air
Status: Cancelled
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description:: PCB?
Contaminants::
Emission Control::

Site: LOBLAWS SUPERMARKETS LIMITED
ON

Database:
CONV

File No.:
Publication Title:
Publication City:
Url:
Crown Brief No.: 02-0108-0749
Ministry District: YORK-DURHAM
Region: CENTRAL REGION
Description: STORE AND DISPLAY PESTICIDE IN MANNER LIKELY TO BRING IT INTO CONTACT WITH FOOD.

--Details--

Publication Date:
Count: 1
Act: PA
Act/Regulation/Section: PA 914 125(C)
Date Charged: 3/24/2003
Charge Disposition: FINED
Fine: \$7000

Site: **Petro-Canada Products**
City of Mississauga ON

Database:
EBR

EBR Registry No.: IA7E1336
Year: 1997
Notice Type: Instrument
Instrument Type: EPA s. 27 - Approval for a waste disposal site.
Ministry Ref. No.:
Proposal Date: 9/4/97
Location: City of Mississauga
Proponent Address: Petro-Canada Products, Oakville Refinery, 3275 Rebecca St., Oakville, Ontario, L5N 6G7
Notice Date:

Site: **The City of Mississauga**
1 Port Street Mississauga ON L5G 4N1

Database:
GEN

PO Box Num:
Status: Registered
Country: Canada
Generator #: ON4964153
Approval Yrs.: As of Sep 2016
SIC Code:
SIC Description:

--Details--

Waste Code: 251 L
Waste Description: Waste oils/sludges (petroleum based)

Site: **TEXACO**
MISSISSAUGA ON

Database:
NATE

File No.: MOE80364
Reported By: Province
Material Reaction::
Spill Date: 800916
Lead Agency:
Basin:: St. Lawrence River Drainage
Air::
DOE on Scene:
Land:: Y
Fresh Water::
Ground Water::
Salt Water::
Other Environment::
Waterbody::
Cause:: Other
Reason:: Error
Source:: Storage Depot
Sector:: Petroleum
Ship No.:
Ship Name:
Clean Up By:: other

Disposal Method:: unknown
Recovery %:: 80.00
Act Invoked:: Unknown
Enforcement Resp::
Fish Kill:: N
Oiled Birds:: N
Other Kill:: N
Vegetation Damage:: N
Property Damage:: N
Drinking Water:: N
Income Loss:: N
Other Consequences:: N
No. of Injuries::
No. of Evacuations::
Fine::
No. of Dead::
Cleanup Cost::
Material:: fuel oil no. 2
Amount (ton):: 0.18
Volume (L)::
Concentration::
Phase::
Additional Info::

Site: TEXACO
 MISSISSAUGA ON

Database:
 NATE

File No.: MOE82126
Reported By: Province
Material Reaction::
Spill Date: 820406
Lead Agency:
Basin:: St. Lawrence River Drainage
Air::
DOE on Scene:
Land:: Y
Fresh Water::
Ground Water::
Salt Water::
Other Environment::
Waterbody::
Cause:: Overflow
Reason:: Other
Source:: Other Industrial Plant
Sector:: Petroleum
Ship No.:
Ship Name::
Clean Up By:: unknown
Disposal Method:: unknown
Recovery %:: 100.00
Act Invoked:: Unknown
Enforcement Resp::
Fish Kill:: N
Oiled Birds:: N
Other Kill:: N
Vegetation Damage:: N
Property Damage:: N
Drinking Water:: N
Income Loss:: N
Other Consequences:: N
No. of Injuries::
No. of Evacuations::
Fine::
No. of Dead::
Cleanup Cost::
Material:: gasoline
Amount (ton)::

Volume (L)::
Concentration::
Phase::
Additional Info::

Site: TEXACO
MISSISSAUGA ON

Database:
NATE

File No.: MOE82126
Reported By: Province
Material Reaction::
Spill Date: 820406
Lead Agency:
Basin:: St. Lawrence River Drainage
Air::
DOE on Scene:
Land:: Y
Fresh Water::
Ground Water::
Salt Water::
Other Environment::
Waterbody::
Cause:: Overflow
Reason:: Other
Source:: Other Industrial Plant
Sector:: Petroleum
Ship No.:
Ship Name:
Clean Up By:: unknown
Disposal Method:: unknown
Recovery %:: 100.00
Act Invoked:: Unknown
Enforcement Resp::
Fish Kill:: N
Oiled Birds:: N
Other Kill:: N
Vegetation Damage:: N
Property Damage:: N
Drinking Water:: N
Income Loss:: N
Other Consequences:: N
No. of Injuries::
No. of Evacuations::
Fine::
No. of Dead::
Cleanup Cost::
Material:: tetraethyl lead
Amount (ton)::
Volume (L)::
Concentration::
Phase::
Additional Info::

Site: TEXACO
MISSISSAUGA ON

Database:
NATE

File No.: MOE84342
Reported By: Province
Material Reaction::
Spill Date: 840707
Lead Agency:
Basin:: St. Lawrence River Drainage
Air::
DOE on Scene:
Land:: Y
Fresh Water::

Ground Water::
Salt Water::
Other Environment::
Waterbody::
Cause:: Overflow
Reason:: Equipment Failure
Source:: Service Station
Sector:: Petroleum
Ship No.::
Ship Name::
Clean Up By:: polluter
Disposal Method:: unknown
Recovery %:: 80.00
Act Invoked:: Unknown
Enforcement Resp::
Fish Kill:: N
Oiled Birds:: N
Other Kill:: N
Vegetation Damage:: N
Property Damage:: N
Drinking Water:: N
Income Loss:: N
Other Consequences:: N
No. of Injuries::
No. of Evacuations::
Fine::
No. of Dead::
Cleanup Cost::
Material:: gasoline
Amount (ton):: 0.29
Volume (L)::
Concentration::
Phase::
Additional Info::

Site: TEXACO
 PPORTCREDIT ON

Database:
 NATE

File No.: 44622P
Reported By: Environment Canada
Material Reaction::
Spill Date: 730621
Lead Agency:
Basin:: St. Lawrence River Drainage
Air::
DOE on Scene:
Land::
Fresh Water::
Ground Water::
Salt Water::
Other Environment::
Waterbody:: LAKE ONTARIO
Cause:: Overflow
Reason:: Other
Source:: Refinery
Sector:: Petroleum
Ship No.::
Ship Name::
Clean Up By:: none
Disposal Method:: none
Recovery %:: 0.00
Act Invoked:: None
Enforcement Resp::
Fish Kill:: N
Oiled Birds:: N
Other Kill:: N
Vegetation Damage:: N

Property Damage:: N
Drinking Water:: N
Income Loss:: N
Other Consequences:: N
No. of Injuries::
No. of Evacuations::
Fine:: 0.00
No. of Dead::
Cleanup Cost:: 0.00
Material:: "fuel 4,5"
Amount (ton):: 0.13
Volume (L)::
Concentration::
Phase::
Additional Info::

Site: TEXACO
PORTCREDIT ON

Database:
NATE

File No.: 445573
Reported By: Environment Canada
Material Reaction::
Spill Date: 780503
Lead Agency:
Basin:: St. Lawrence River Drainage
Air::
DOE on Scene:
Land::
Fresh Water::
Ground Water::
Salt Water::
Other Environment::
Waterbody:: PORT CREDIT HARBOUR
Cause:: Pipe Leak
Reason:: Overstress
Source:: Marine Tanker
Sector:: Petroleum
Ship No.: 7526924
Ship Name:: TEXACOBRAVE
Clean Up By:: polluter
Disposal Method:: unknown
Recovery %:: 50.00
Act Invoked:: Unknown
Enforcement Resp::
Fish Kill:: N
Oiled Birds:: N
Other Kill:: N
Vegetation Damage:: N
Property Damage:: N
Drinking Water:: N
Income Loss:: N
Other Consequences:: N
No. of Injuries::
No. of Evacuations::
Fine::
No. of Dead::
Cleanup Cost::
Material:: bunker c
Amount (ton):: 0.45
Volume (L)::
Concentration::
Phase::
Additional Info::

Site: TEXACOINC

Database:
NATE

PORTCREDIT ON

File No.: MOE81001
Reported By: Province
Material Reaction::
Spill Date: 801229
Lead Agency:
Basin:: St. Lawrence River Drainage
Air::
DOE on Scene:
Land:: Y
Fresh Water::
Ground Water::
Salt Water::
Other Environment::
Waterbody::
Cause:: Pipe Leak
Reason:: Ice, Frost
Source:: Refinery
Sector:: Petroleum
Ship No.:
Ship Name::
Clean Up By:: polluter
Disposal Method:: unknown
Recovery %:: 80.00
Act Invoked:: Unknown
Enforcement Resp::
Fish Kill:: N
Oiled Birds:: N
Other Kill:: N
Vegetation Damage:: N
Property Damage:: N
Drinking Water:: N
Income Loss:: N
Other Consequences:: N
No. of Injuries::
No. of Evacuations::
Fine::
No. of Dead::
Cleanup Cost::
Material:: sodium hydroxide
Amount (ton):: 1.40
Volume (L):: 910.00
Concentration:: 50.00A
Phase::
Additional Info::

Site: TEXACOINC
PORTCREDIT ON

Database:
NATE

File No.: MOE81027
Reported By: Province
Material Reaction::
Spill Date: 810127
Lead Agency:
Basin:: St. Lawrence River Drainage
Air::
DOE on Scene:
Land:: Y
Fresh Water::
Ground Water::
Salt Water::
Other Environment::
Waterbody::
Cause:: Valve, Fitting Leak
Reason:: Material Failure
Source:: Refinery

Sector:: Petroleum
Ship No.::
Ship Name::
Clean Up By:: polluter
Disposal Method:: recycle
Recovery %:: 80.00
Act Invoked:: Unknown
Enforcement Resp::
Fish Kill:: N
Oiled Birds:: N
Other Kill:: N
Vegetation Damage:: N
Property Damage:: N
Drinking Water:: N
Income Loss:: N
Other Consequences:: N
No. of Injuries::
No. of Evacuations::
Fine::
No. of Dead::
Cleanup Cost::
Material:: fuel oil no. 2
Amount (ton):: 11.00
Volume (L)::
Concentration::
Phase::
Additional Info::

Site: TEXACOCANADA
 MISSISSAUGA ON

Database:
 NATE

File No.: MOE78183
Reported By: Province
Material Reaction::
Spill Date: 780504
Lead Agency:
Basin:: St. Lawrence River Drainage
Air::
DOE on Scene:
Land::
Fresh Water::
Ground Water::
Salt Water::
Other Environment::
Waterbody:: LAKE ONTARIO
Cause:: Pipe Leak
Reason:: Material Failure
Source:: Pipeline
Sector:: Petroleum
Ship No.::
Ship Name::
Clean Up By:: polluter
Disposal Method:: unknown
Recovery %:: 80.00
Act Invoked:: Unknown
Enforcement Resp::
Fish Kill:: N
Oiled Birds:: N
Other Kill:: N
Vegetation Damage:: N
Property Damage:: N
Drinking Water:: N
Income Loss:: N
Other Consequences:: N
No. of Injuries::
No. of Evacuations::
Fine::

No. of Dead::
Cleanup Cost::
Material:: bunker c
Amount (ton):: 1.50
Volume (L)::
Concentration::
Phase::
Additional Info::

Site: TEXACO
MISSISSAUGA ON

Database:
NEES

Incident Date: 4/6/82
Contaminant: gasoline
Amount::
Units::
Quantity::
Cause:: Overflow
Source:: Other Industrial Plant
Reason:: Other
Sector:: Petroleum

Site: TRANS-NORTHERN PIPELINES INC.
MISSISSAUGA CITY ON

Database:
NEES

Incident Date: 9/10/88
Contaminant: PCB CONTAMINATED OIL GT50 PPM PCB
Amount:: 0
Units:: Cooling System Leak
Quantity::
Cause:: Equipment Failure
Source:: Pipeline
Reason::
Sector:: Petroleum

Site: PETRO-CANADA
MISSISSAUGA CITY ON

Database:
NEES

Incident Date: 9/15/88
Contaminant: GASOLINE
Amount:: 0
Units:: Underground Tank Leak
Quantity::
Cause:: Unknown
Source:: Service Station
Reason::
Sector:: Petroleum

Site: PETRO-CANADA
MISSISSAUGA CITY ON

Database:
NEES

Incident Date: 11/22/88
Contaminant: GASOLINE
Amount:: 0
Units:: Valve, Fitting Leak
Quantity::
Cause:: Unknown
Source:: Service Station
Reason::
Sector:: Petroleum

Site: TEXACO
MISSISSAUGA ON

Database:
NEES

Incident Date: 7/7/84
Contaminant: gasoline
Amount:: 0.29
Units:: Tonnes (Metric)
Quantity::
Cause:: Overflow
Source:: Service Station
Reason:: Equipment Failure
Sector:: Petroleum

Site: PETRO-CANADA
MISSISSAUGA CITY ON

Database:
NEES

Incident Date: 4/4/89
Contaminant: GASOLINE
Amount:: 0
Units:: Valve, Fitting Leak
Quantity::
Cause:: Equipment Failure
Source:: Service Station
Reason::
Sector:: Petroleum

Site: TEXACO
PPORTCREDIT ON

Database:
NEES

Incident Date: 6/21/73
Contaminant: fuel 4,5
Amount:: 0.13
Units:: Tonnes (Metric)
Quantity::
Cause:: Overflow
Source:: Refinery
Reason:: Other
Sector:: Petroleum

Site: TEXACO
MISSISSAUGA ON

Database:
NEES

Incident Date: 4/6/82
Contaminant: tetraethyl lead
Amount::
Units::
Quantity::
Cause:: Overflow
Source:: Other Industrial Plant
Reason:: Other
Sector:: Petroleum

Site: PETRO-CANADA
MISSISSAUGA CITY ON

Database:
NEES

Incident Date: 1/23/88
Contaminant: GASOLINE
Amount:: 0
Units:: Valve, Fitting Leak
Quantity::
Cause:: Equipment Failure
Source:: Service Station
Reason::

Sector:: Petroleum

Site: PETRO-CANADA
MISSISSAUGA CITY ON

Database:
NEES

Incident Date: 10/3/88
Contaminant: GASOLINE
Amount:: 0
Units:: Overflow
Quantity::
Cause:: Error
Source:: Service Station
Reason::
Sector:: Petroleum

Site: TEXACOCANADA
MISSISSAUGA ON

Database:
NEES

Incident Date: 5/4/78
Contaminant: bunker c
Amount:: 1.5
Units:: Tonnes (Metric)
Quantity::
Cause:: Pipe Leak
Source:: Pipeline
Reason:: Material Failure
Sector:: Petroleum

Site: TEXACO
PORTCREDIT ON

Database:
NEES

Incident Date: 5/3/78
Contaminant: bunker c
Amount:: 0.45
Units:: Tonnes (Metric)
Quantity::
Cause:: Pipe Leak
Source:: Marine Tanker
Reason:: Overstress
Sector:: Petroleum

Site: PETRO-CANADA
MISSISSAUGA CITY ON

Database:
NEES

Incident Date: 10/1/88
Contaminant: DIESEL FUEL
Amount:: 0
Units:: Valve, Fitting Leak
Quantity::
Cause:: Unknown
Source:: Service Station
Reason::
Sector:: Petroleum

Site: TEXACO
MISSISSAUGA CITY ON

Database:
NEES

Incident Date: 10/6/88
Contaminant: HEATING OIL
Amount:: 0
Units:: Discharge

Quantity::
Cause:: Negligence
Source:: Service Station
Reason::
Sector:: Petroleum

Site: **TEXACO**
MISSISSAUGA ON

Database:
NEES

Incident Date: 9/16/80
Contaminant: fuel oil no. 2
Amount:: 0.18
Units:: Tonnes (Metric)
Quantity::
Cause:: Other
Source:: Storage Depot
Reason:: Error
Sector:: Petroleum

Site: **TEXACOINC**
PORTCREDIT ON

Database:
NEES

Incident Date: 12/29/80
Contaminant: sodium hydroxide
Amount:: 1.4
Units:: Tonnes (Metric)
Quantity::
Cause:: Pipe Leak
Source:: Refinery
Reason:: Ice, Frost
Sector:: Petroleum

Site: **TEXACO**
MISSISSAUGA CITY ON

Database:
NEES

Incident Date: 10/6/88
Contaminant: GASOLINE
Amount:: 0
Units:: Underground Tank Leak
Quantity::
Cause:: Unknown
Source:: Service Station
Reason::
Sector:: Petroleum

Site: **TEXACOINC**
PORTCREDIT ON

Database:
NEES

Incident Date: 1/27/81
Contaminant: fuel oil no. 2
Amount:: 11
Units:: Tonnes (Metric)
Quantity::
Cause:: Valve, Fitting Leak
Source:: Refinery
Reason:: Material Failure
Sector:: Petroleum

Site: **PETRO-CANADA**
MISSISSAUGA CITY ON

Database:
NEES

Incident Date: 8/21/88
Contaminant: GASOLINE
Amount:: 0
Units:: Pipe Leak
Quantity::
Cause:: Error
Source:: Service Station
Reason::
Sector:: Petroleum

Site: **PETRO-CANADA**
MISSISSAUGA CITY ON

Database:
NEES

Incident Date: 4/21/88
Contaminant: DIESEL FUEL
Amount:: 0
Units:: Overflow
Quantity::
Cause:: Unknown
Source:: Service Station
Reason::
Sector:: Petroleum

Site:
under Lakeshore Road Mississauga ON

Database:
SPL

Ref No: 8707-9YNM5N
Contaminant Code: 44
Contaminant Name: SEWAGE,RAW UNCHLORINATED
Contaminant Quantity: 0 other - see incident description
Incident Cause:
Incident Dt: 7/22/2015
Incident Reason: Deliberate Act
Incident Summary: RofPeel: sani siphon backup to Cooksville
MOE Reported Dt: 7/22/2015
Environmental Impact:
Nature of Impact:
Receiving Medium:
SAC Action Class: Watercourse Spills
Sector Source Type: Municipal Sewage
Receiving Environment:
Incident Event:
Site Municipality: Mississauga

Site: **York Disposal Services Limited**
Lakeshore Road West CORNER OF LAKESHORE RD. AND LORNE PARK DR., MISSISSAUGA, ON<UNOFFICIAL>
Mississauga ON

Database:
SPL

Ref No: 3737-6T9HXU
Contaminant Code: 15
Contaminant Name: HYDRAULIC OIL
Contaminant Quantity: 66 L
Incident Cause: Other Transport Accident
Incident Dt: 9/2/2006
Incident Reason: Equipment/Vehicles
Incident Summary: Garbage truck rollover- 15 gals of hydraulic oil to grnd.
MOE Reported Dt: 9/2/2006
Environmental Impact: Confirmed
Nature of Impact: Soil Contamination
Receiving Medium: Land
SAC Action Class:
Sector Source Type: Other Motor Vehicle
Receiving Environment:
Incident Event:

Site Municipality: Mississauga

Site: Lakeshore Road West Mississauga ON **Database:** SPL

Ref No: 3281-7AVJ8A
Contaminant Code: 43
Contaminant Name: SEDIMENT(SUSPENDED SOLIDS/ SAND/ SILT)
Contaminant Quantity: other - see incident description
Incident Cause: Unknown
Incident Dt:
Incident Reason: Unknown - Reason not determined
Incident Summary: Sheridan Creek & bright yellow colour
MOE Reported Dt: 1/15/2008
Environmental Impact: Possible
Nature of Impact: Surface Water Pollution
Receiving Medium:
SAC Action Class: Pollution Incident Reports (PIRs) and & Other & calls
Sector Source Type: Other
Receiving Environment:
Incident Event:
Site Municipality: Mississauga

Site: The Corporation of the City of Mississauga **Database:** SPL
RICHARDS MEMORIAL PARK, NEAR LAKESHORE RD.<UNOFFICIAL> Mississauga ON

Ref No: 2472-5NVTCTU
Contaminant Code: 44
Contaminant Name: SEWAGE,RAW UNCHLORINATED
Contaminant Quantity:
Incident Cause:
Incident Dt: 6/26/2003
Incident Reason:
Incident Summary: Richards Memorial Park-small sewage spill.
MOE Reported Dt: 6/26/2003
Environmental Impact: Possible
Nature of Impact: Human Health/Safety
Receiving Medium: Land
SAC Action Class: Spill to Land
Sector Source Type: Other Plant - Sewage Municipal
Receiving Environment:
Incident Event:
Site Municipality: Mississauga

Site: GREEN SPACE SERVICES(SEARS LAW **Database:** SPL
JACK DARLING PARK,LAKESHORE ROAD. TANK TRUCK (CARGO) MISSISSAUGA CITY ON

Ref No: 230431
Contaminant Code:
Contaminant Name:
Contaminant Quantity:
Incident Cause: UNKNOWN
Incident Dt: 7/2/2002
Incident Reason: UNKNOWN
Incident Summary: GREEN SPACE-30 L KILLEX TOL LOT,REGION RESPONDED.
MOE Reported Dt: 7/2/2002
Environmental Impact: POSSIBLE
Nature of Impact: Soil contamination
Receiving Medium: WATER
SAC Action Class:
Sector Source Type:
Receiving Environment:
Incident Event:
Site Municipality: 21102

Site:**Credit River and Lakeshore Rd. CREDIT RIVER<UNOFFICIAL> Mississauga ON****Database:****SPL**

Ref No: 6083-6Q8LGC
Contaminant Code: 44
Contaminant Name: SEWAGE,RAW UNCHLORINATED
Contaminant Quantity: Not Specific Unknown
Incident Cause: Other Discharges
Incident Dt: 5/28/2006
Incident Reason: Unknown - Reason not determined
Incident Summary: Spill of sewage to the Credit River.
MOE Reported Dt: 5/28/2006
Environmental Impact: Possible
Nature of Impact: Surface Water Pollution
Receiving Medium: Water
SAC Action Class:
Sector Source Type: Other
Receiving Environment:
Incident Event:
Site Municipality: Mississauga

Site:**GARDINER & EDGELIEGH AND ENDING AT OGDEN & LAKESHORE AVE<UNOFFICIAL> Mississauga ON****Database:****SPL**

Ref No: 2776-6STNLM
Contaminant Code: 15
Contaminant Name: ENGINE OIL
Contaminant Quantity: not specified not specified
Incident Cause:
Incident Dt: 8/19/2006
Incident Reason:
Incident Summary: Mississauga: Oil and water trail on street
MOE Reported Dt: 8/19/2006
Environmental Impact: Possible
Nature of Impact: Soil Contamination
Receiving Medium: Land
SAC Action Class:
Sector Source Type: Unknown
Receiving Environment:
Incident Event:
Site Municipality: Mississauga

Site:**PETRO-CANADA SERVICE STATION \ MISSISSAUGA CITY ON****Database:****SPL**

Ref No: 123672
Contaminant Code:
Contaminant Name:
Contaminant Quantity:
Incident Cause:
Incident Dt: 2/16/1996
Incident Reason:
Incident Summary:
MOE Reported Dt: 2/16/1996
Environmental Impact:
Nature of Impact:
Receiving Medium: LAND
SAC Action Class:
Sector Source Type:
Receiving Environment:
Incident Event:
Site Municipality: 21102

Site: ZINTARI (CARGO SHIP)
LAKE ONTARIO, CLARKSON PETRO-CANADA REFINERY DOCK, SOUTH MISSISSAUGA LARGE OCEAN/ST.
LAWRENCE TANKER (CARGO) MISSISSAUGA CITY ON

Database:
SPL

Ref No: 203175
Contaminant Code:
Contaminant Name:
Contaminant Quantity:
Incident Cause: UNKNOWN
Incident Dt: 6/12/2001
Incident Reason: UNKNOWN
Incident Summary: ZINTARI/PETRO-CANADA: SHEEN OF OIL ON LAKE ONT. SHIP POSSIBLE SOURCE.
MOE Reported Dt: 6/12/2001
Environmental Impact: Possible
Nature of Impact: Water course or lake
Receiving Medium: Water
SAC Action Class:
Sector Source Type:
Receiving Environment:
Incident Event:
Site Municipality: 21102

Site: MARINE VESSEL
LAKE ONTARIO AT THE PETRO-CANADA REFINERY DOCK AT CLARKSON MISSISSAUGA CITY ON

Database:
SPL

Ref No: 208549
Contaminant Code:
Contaminant Name:
Contaminant Quantity:
Incident Cause: VALVE/FITTING LEAK OR FAILURE
Incident Dt: 8/9/2001
Incident Reason: OTHER
Incident Summary: VESSEL 'JADE STAR' - 3 L OF BUNKER OIL TO LAKE ONTARIO.
MOE Reported Dt: 8/9/2001
Environmental Impact: Confirmed
Nature of Impact: Water course or lake
Receiving Medium: Water
SAC Action Class:
Sector Source Type:
Receiving Environment:
Incident Event:
Site Municipality: 21102

Site: PETRO-CANADA
TANK TRUCK (CARGO) MISSISSAUGA CITY ON

Database:
SPL

Ref No: 51137
Contaminant Code:
Contaminant Name:
Contaminant Quantity:
Incident Cause: PIPE/HOSE LEAK
Incident Dt: 5/24/1991
Incident Reason: ERROR
Incident Summary: PETRO CANADA - 50 L. OF GAS TO GROUND AT 2125 DUNDAS STREET
MOE Reported Dt: 5/24/1991
Environmental Impact: NOT ANTICIPATED
Nature of Impact:
Receiving Medium: LAND
SAC Action Class:
Sector Source Type:
Receiving Environment:
Incident Event:
Site Municipality: 21102

Site: PETRO-CANADA
SERVICE STATION MISSISSAUGA CITY ON

Database:
[SPL](#)

Ref No: 8408
Contaminant Code:
Contaminant Name:
Contaminant Quantity:
Incident Cause: PIPE/HOSE LEAK
Incident Dt: 8/21/1988
Incident Reason: ERROR
Incident Summary: PETROCAN SERVICE CENTRE - UNKNOWN AMOUNT (SMALL) OF GASOLINE TO PAVEMENT.
MOE Reported Dt: 8/21/1988
Environmental Impact:
Nature of Impact:
Receiving Medium: LAND
SAC Action Class:
Sector Source Type:
Receiving Environment:
Incident Event:
Site Municipality: 21102

Site: IMPERIAL OIL
ESSO SERVICE STATION MISSISSAUGA CITY ON

Database:
[SPL](#)

Ref No: 118444
Contaminant Code:
Contaminant Name:
Contaminant Quantity:
Incident Cause: CONTAINER OVERFLOW
Incident Dt: 9/13/1995
Incident Reason: ERROR
Incident Summary: IMPERIAL OIL: 75L DIESEL FUEL TO ASPHALT,SEPARATOR& CATCHBASIN: CLEANING UP
MOE Reported Dt: 9/13/1995
Environmental Impact: POSSIBLE
Nature of Impact: Multi Media Pollution
Receiving Medium: LAND / WATER
SAC Action Class:
Sector Source Type:
Receiving Environment:
Incident Event:
Site Municipality: 21102

Site: IMPERIAL OIL
ESSO SERVICE STATION MISSISSAUGA CITY ON

Database:
[SPL](#)

Ref No: 110268
Contaminant Code:
Contaminant Name:
Contaminant Quantity:
Incident Cause: PIPE/HOSE LEAK
Incident Dt: 2/22/1995
Incident Reason: EQUIPMENT FAILURE
Incident Summary: IMPERIAL OIL: 60L DIESEL FUEL TO CONCRETE PAD,ROAD& CATCHBASIN: WORKS
MOE Reported Dt: 2/22/1995
Environmental Impact: CONFIRMED
Nature of Impact: Multi Media Pollution
Receiving Medium: LAND / WATER
SAC Action Class:
Sector Source Type:
Receiving Environment:
Incident Event:
Site Municipality: 21102

Site: IMPERIAL OIL LTD.
BULK STATION/STORAGE DEPOT MISSISSAUGA CITY ON

Database:
SPL

Ref No: 110613
Contaminant Code:
Contaminant Name:
Contaminant Quantity:
Incident Cause: VALVE/FITTING LEAK OR FAILURE
Incident Dt: 3/6/1995
Incident Reason: GASKET/JOINT
Incident Summary: IMPERIAL OIL: 30L DIESEL FUEL TO CONCRETE PAD & OIL/WATER SEPARATOR:MCCR
MOE Reported Dt: 3/6/1995
Environmental Impact: NOT ANTICIPATED
Nature of Impact: Water course or lake
Receiving Medium: LAND / WATER
SAC Action Class:
Sector Source Type:
Receiving Environment:
Incident Event:
Site Municipality: 21102

Site: Imperial Oil Limited
Mississauga ON

Database:
SPL

Ref No: 0332-8RFT59
Contaminant Code: 13
Contaminant Name: PETROLEUM DISTILLATES (N.O.S.)
Contaminant Quantity:
Incident Cause:
Incident Dt: 13-FEB-12
Incident Reason:
Incident Summary: I.O.L.-Ukn Qty Petroleum to Ground at Card Lock
MOE Reported Dt: 13-FEB-12
Environmental Impact: Not Anticipated
Nature of Impact:
Receiving Medium: Sewage - Municipal/Private and Commercial
SAC Action Class: Land Spills
Sector Source Type:
Receiving Environment:
Incident Event:
Site Municipality: Mississauga

Site: PETRO-CANADA LUBRICANTS INC.
MISSISSAUGA ON

Database:
SRDS

Year: 2012
Works Id:
Company Code: 0000130104
SIC:
SIC Desc:
Sector:: PETROLEUM REFINERIES
Region::
District::
Body of Water::
Terminal Stream::
Minor Basin::
Major Basin::
Mailing Address::
Corp Address::

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Site: PETRO-CANADA LUBRICANTS INC.
MISSISSAUGA ON

Database:
SRDS

Year: 2014
Works Id:
Company Code: 0000130104
SIC:
SIC Desc:
Sector:: PETROLEUM REFINERIES
Region::
District::
Body of Water::
Terminal Stream::
Minor Basin::
Major Basin::
Mailing Address::
Corp Address::

--Details--

Control Point: PLANT - PROCESS EFFLUENT
IMIS Control Point: 0700

Control Point: PLANT - ONCE THROUGH COOLING WATER (OTCW)
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IMIS Control Point:	0800

Site: PETRO-CANADA LUBRICANTS INC.
MISSISSAUGA ON

Database:
SRDS

Year:	2009
Works Id:	33
Company Code:	0000130104
SIC:	3612 3611
SIC Desc:	LUB. OIL & GREASE, REFINED PETRO. PROD.
Sector::	PETROLEUM REFINERIES
Region::	MOE CENTRAL REGION
District::	MOE HALTON-PEEL DISTRICT
Body of Water::	LAKE ONTARIO
Terminal Stream::	
Minor Basin::	LAKE ONTARIO
Major Basin::	GREAT LAKES
Mailing Address::	000385 SOUTHDOWN RD ,000385SOUTHDOWN RD,,MISSISSAUGA,ONTARIO,CANADA,L5J 2Y3
Corp Address::	385 SOUTHDOWN RD ,385 SOUTHDOWN RD,,MISSISSAUGA,ONTARIO,CANADA,L5J 2Y3

--Details--

Control Point: PLANT - PROCESS EFFLUENT
IMIS Control Point: 0700

Control Point: PROCESS EFFLUENT
IMIS Control Point: 0100

Control Point: ONCE-THROUGH COOLING WATER
IMIS Control Point: 0300

Control Point: ONCE-THROUGH COOLING WATER
IMIS Control Point: 0500

Control Point: PLANT - O.T.C.W.
IMIS Control Point: 0800

Site: PETRO-CANADA PRODUCTS - MISSISSAUGA LUBRICANTS CENTER
MISSISSAUGA ON

Database:
SRDS

Year: 2010
Works Id: 33
Company Code: 0000130104
SIC: 3612
SIC Desc: LUB. OIL & GREASE
Sector:: PETROLEUM REFINERIES
Region:: MOE CENTRAL REGION
District:: MOE HALTON-PEEL DISTRICT
Body of Water::
Terminal Stream::
Minor Basin:: LAKE ONTARIO
Major Basin:: GREAT LAKES
Mailing Address:: 000385 SOUTHDOWN RD ,000385SOUTHDOWN RD,,MISSISSAUGA,ONTARIO,CANADA,L5J 2Y3
Corp Address:: 385 SOUTHDOWN RD ,385 SOUTHDOWN RD,,MISSISSAUGA,ONTARIO,CANADA,L5J 2Y3

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Control Point: PLANT - PROCESS EFFLUENT
IMIS Control Point: 0700

Control Point: PLANT - ONCE THROUGH COOLING WATER (OTCW)
IMIS Control Point: 0800

Site: PETRO-CANADA LUBRICANTS INC.
MISSISSAUGA ON

Database:
SRDS

Year: 2013
Works Id:
Company Code: 0000130104
SIC:
SIC Desc:
Sector:: PETROLEUM REFINERIES
Region::
District::
Body of Water::
Terminal Stream::
Minor Basin::
Major Basin::
Mailing Address::
Corp Address::

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Control Point: PLANT - PROCESS EFFLUENT
IMIS Control Point: 0700

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Control Point:	PLANT - PROCESS EFFLUENT
IMIS Control Point:	0700
Control Point:	PLANT - PROCESS EFFLUENT
IMIS Control Point:	0700
Control Point:	PLANT - PROCESS EFFLUENT
IMIS Control Point:	0700
Control Point:	PLANT - PROCESS EFFLUENT
IMIS Control Point:	0700
Control Point:	PLANT - PROCESS EFFLUENT
IMIS Control Point:	0700
Control Point:	PLANT - ONCE THROUGH COOLING WATER (OTCW)
IMIS Control Point:	0800
Control Point:	PLANT - ONCE THROUGH COOLING WATER (OTCW)
IMIS Control Point:	0800
Control Point:	PLANT - PROCESS EFFLUENT
IMIS Control Point:	0700
Control Point:	PLANT - PROCESS EFFLUENT
IMIS Control Point:	0700
Control Point:	PLANT - ONCE THROUGH COOLING WATER (OTCW)
IMIS Control Point:	0800
Control Point:	PLANT - PROCESS EFFLUENT
IMIS Control Point:	0700
Control Point:	PLANT - ONCE THROUGH COOLING WATER (OTCW)
IMIS Control Point:	0800
Control Point:	PLANT - PROCESS EFFLUENT
IMIS Control Point:	0700
Control Point:	PLANT - PROCESS EFFLUENT
IMIS Control Point:	0700
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IMIS Control Point:	0700
Control Point:	PLANT - PROCESS EFFLUENT
IMIS Control Point:	0700
Control Point:	PLANT - ONCE THROUGH COOLING WATER (OTCW)
IMIS Control Point:	0800
Control Point:	PLANT - ONCE THROUGH COOLING WATER (OTCW)
IMIS Control Point:	0800
Control Point:	PLANT - ONCE THROUGH COOLING WATER (OTCW)
IMIS Control Point:	0800
Control Point:	PLANT - ONCE THROUGH COOLING WATER (OTCW)
IMIS Control Point:	0800
Control Point:	PLANT - ONCE THROUGH COOLING WATER (OTCW)
IMIS Control Point:	0800
Control Point:	PLANT - PROCESS EFFLUENT
IMIS Control Point:	0700
Control Point:	PLANT - PROCESS EFFLUENT
IMIS Control Point:	0700
Control Point:	PLANT - ONCE THROUGH COOLING WATER (OTCW)
IMIS Control Point:	0800
Control Point:	PLANT - ONCE THROUGH COOLING WATER (OTCW)
IMIS Control Point:	0800
Control Point:	PLANT - ONCE THROUGH COOLING WATER (OTCW)
IMIS Control Point:	0800
Control Point:	PLANT - PROCESS EFFLUENT
IMIS Control Point:	0700
Control Point:	PLANT - PROCESS EFFLUENT
IMIS Control Point:	0700
Control Point:	PLANT - PROCESS EFFLUENT
IMIS Control Point:	0700
Control Point:	PLANT - ONCE THROUGH COOLING WATER (OTCW)
IMIS Control Point:	0800
Control Point:	PLANT - ONCE THROUGH COOLING WATER (OTCW)
IMIS Control Point:	0800
Control Point:	PLANT - ONCE THROUGH COOLING WATER (OTCW)
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IMIS Control Point:	0800
Control Point:	PLANT - ONCE THROUGH COOLING WATER (OTCW)
IMIS Control Point:	0800

Control Point: PLANT - ONCE THROUGH COOLING WATER (OTCW)
IMIS Control Point: 0800

Control Point: PLANT - ONCE THROUGH COOLING WATER (OTCW)
IMIS Control Point: 0800

Control Point: PLANT - PROCESS EFFLUENT
IMIS Control Point: 0700

Control Point: PLANT - PROCESS EFFLUENT
IMIS Control Point: 0700

Site: Petro-Canada
Mississauga ON

Database:
WDS

Certificate No.: A680263
Issue Date: 5/8/2007
Status: Approved
Application Status:
Concession:
Lot:
Region/County:
Proponent:
Address:
City:
Facility Type:
District Office:
Municipalities Served:
Total Area (ha):
Landfill Capacity (m³):
Landfill Monitoring:
Landfill Control Type:
Est. Closure Date:
Transfer Area (ha):
Transfer Capacity (m³):
Transfer Sites Certificate No.:
Incinerator Area (ha):
Incinerator Capacity (t):
Processing Area (m³):
Processing Capacity (m³/d):
Processing Volume (m³):
Processing Feed (m³):
Mobile Units:
Mobile Description:
Mobile Capacity:
Mobile Unit Certificate No.:
Waste Type:
Waste Type Other:
Waste Class:
Other Approvals/Permits:
Approval Description:
Waste Description:
Site Closing Description:
PDF URL:
Record Type:
Project Type:

Site: Petro-Canada
Mississauga ON

Database:
WDS

Certificate No.: A680263
Issue Date: 5/26/2011
Status: Approved
Application Status:
Concession:
Lot:

Region/County:
Proponent:
Address:
City:
Facility Type:
District Office:
Municipalities Served:
Total Area (ha):
Landfill Capacity (m³):
Landfill Monitoring:
Landfill Control Type:
Est. Closure Date:
Transfer Area (ha):
Transfer Capacity (m³):
Transfer Sites Certificate No.:
Incinerator Area (ha):
Incinerator Capacity (t):
Processing Area (m³):
Processing Capacity (m³/d):
Processing Volume (m³):
Processing Feed (m³):
Mobile Units:
Mobile Description:
Mobile Capacity:
Mobile Unit Certificate No.:
Waste Type:
Waste Type Other:
Waste Class:
Other Approvals/Permits:
Approval Description:
Waste Description:
Site Closing Description:
PDF URL:
Record Type:
Project Type:

Appendix: Database Descriptions

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

Abandoned Aggregate Inventory:

Provincial [AAGR](#)

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

Government Publication Date: Sept 2002*

Aggregate Inventory:

Provincial [AGR](#)

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

Government Publication Date: Up to Sep 2016

Abandoned Mine Information System:

Provincial [AMIS](#)

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

Government Publication Date: 1800-Nov 2016

Anderson's Waste Disposal Sites:

Private [ANDR](#)

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

Government Publication Date: 1860s-Present

Automobile Wrecking & Supplies:

Private [AUWR](#)

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

Government Publication Date: Oct 31, 2016

Borehole:

Provincial [BORE](#)

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

Government Publication Date: 1875-Jul 2014

Certificates of Approval:

Provincial [CA](#)

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

Government Publication Date: 1985-Oct 30, 2011*

Commercial Fuel Oil Tanks:

Provincial

CFOT

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

Government Publication Date: Feb 28, 2017

Chemical Register:

Private

CHEM

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

Government Publication Date: Oct 31, 2016

Compressed Natural Gas Stations:

Private

CNG

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

Government Publication Date: Dec 31, 2012

Inventory of Coal Gasification Plants and Coal Tar Sites:

Provincial

COAL

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

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions:

Provincial

CONV

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

Government Publication Date: 1989-Jan 2017

Certificates of Property Use:

Provincial

CPU

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

Government Publication Date: 1994-Jan 2017

Drill Hole Database:

Provincial

DRL

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

Government Publication Date: 1886-Aug 2015

Environmental Activity and Sector Registry:

Provincial

EASR

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

Government Publication Date: Oct 2011-Nov 2016

Environmental Registry:

Provincial

EBR

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

Government Publication Date: 1994-Jan 2017

Environmental Compliance Approval:

Provincial

ECA

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

Government Publication Date: Oct 2011-Nov 2016

Environmental Effects Monitoring:

Federal

EEM

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

Government Publication Date: 1992-2007*

ERIS Historical Searches:

Private

EHS

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

Government Publication Date: 1999-Aug 2016

Environmental Issues Inventory System:

Federal

EIIS

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

Government Publication Date: 1992-2001*

Emergency Management Historical Event:

Provincial

EMHE

The Emergency Management Historical Event data class will store the locations of historical occurrences of emergency events. Events captured will include those assigned to the Ministry of Natural Resources by Order-In-Council (OIC) under the Emergency Management and Civil Protection Act as well as events where MNR provided requested emergency response assistance. Many of these events will have involved community evacuations, significant structural loss, and/or involvement of MNR emergency response staff. These events fall into one of ten (10) type categories: Dam Failure; Drought / Low Water; Erosion; Flood; Forest Fire; Soil and Bedrock Instability; Petroleum Resource Center Event, EMO Requested Assistance, Continuity of Operations Event, Other Requested Assistance.

Government Publication Date: May 31, 2014

List of TSSA Expired Facilities:

Provincial

EXP

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

Government Publication Date: Feb 28, 2017

Federal Convictions:

Federal

FCON

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

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land:

Federal

FCS

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

Government Publication Date: June 2000-Aug 2016

Fisheries & Oceans Fuel Tanks:

Federal

FOFT

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

Government Publication Date: 1964-Sept 2003

Fuel Storage Tank:

Provincial

FST

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

Government Publication Date: Feb 28, 2017

Fuel Storage Tank - Historic:

Provincial

FSTH

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

Government Publication Date: Pre-Jan 2010*

Ontario Regulation 347 Waste Generators Summary:

Provincial

GEN

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

Government Publication Date: 1986-Sep 2016

Greenhouse Gas Emissions from Large Facilities:

Federal

GHG

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

Government Publication Date: 2013 - Dec 2014

TSSA Historic Incidents:

Provincial

HINC

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

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks:

Federal

IAFT

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

Government Publication Date: 1950-Aug 2003*

TSSA Incidents:

Provincial

INC

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

Government Publication Date: Feb 28, 2017

Landfill Inventory Management Ontario:

Provincial

LIMO

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

Government Publication Date: Dec 31, 2013

Canadian Mine Locations:

Private

MINE

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

Government Publication Date: 1998-2009*

Mineral Occurrences:

Provincial

MNR

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

Government Publication Date: 1846-Feb 2016

National Analysis of Trends in Emergencies System (NATES):

Federal

NATE

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

Government Publication Date: 1974-1994*

Non-Compliance Reports:

Provincial

NCPL

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

Government Publication Date: Dec 31, 2014

National Defense & Canadian Forces Fuel Tanks:

Federal

NDFT

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

Government Publication Date: Up to May 2001*

National Defense & Canadian Forces Spills:

Federal

NDSP

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

Government Publication Date: Mar 1999-Aug 2010

National Defence & Canadian Forces Waste Disposal Sites:

Federal

NDWD

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

Government Publication Date: 2001-Apr 2007*

National Energy Board Wells:

Federal

NEBW

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

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES):

Federal

NEES

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

Government Publication Date: 1974-2003***National PCB Inventory:**

Federal

NPCB

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

Government Publication Date: 1988-2008***National Pollutant Release Inventory:**

Federal

NPRI

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

Government Publication Date: 1993-2014**Oil and Gas Wells:**

Private

OGW

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

Government Publication Date: 1988-Jan 2017**Ontario Oil and Gas Wells:**

Provincial

OOGW

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

Government Publication Date: 1800-Oct 2016**Inventory of PCB Storage Sites:**

Provincial

OPCB

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

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

Provincial

ORD

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

Government Publication Date: 1994-Jan 2017**Canadian Pulp and Paper:**

Private

PAP

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

Government Publication Date: 1999, 2002, 2004, 2005, 2009**Parks Canada Fuel Storage Tanks:**

Federal

PCFT

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

Government Publication Date: 1920-Jan 2005*

Pesticide Register:

Provincial PES

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

Government Publication Date: 1988-Oct 2016

TSSA Pipeline Incidents:

Provincial PINC

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

Government Publication Date: Feb 28, 2017

National Energy Board Pipeline Incidents:

Federal PIPELINE INCIDENTS

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

Government Publication Date: 2008 - Dec 2016

Private and Retail Fuel Storage Tanks:

Provincial PRT

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

Government Publication Date: 1989-1996*

Permit to Take Water:

Provincial PTTW

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

Government Publication Date: 1994-Jan 2017

Ontario Regulation 347 Waste Receivers Summary:

Provincial REC

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

Government Publication Date: 1986-2013

Record of Site Condition:

Provincial RSC

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

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

Government Publication Date: 1997-Sept 2001, Oct 2004-Dec 2016

Retail Fuel Storage Tanks:

Private RST

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

Government Publication Date: Oct 31, 2016

Scott's Manufacturing Directory:

Private SCT

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

Government Publication Date: 1992-Mar 2011*

Ontario Spills:

Provincial

SPL

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

Government Publication Date: 1988-Dec 2016

Wastewater Discharger Registration Database:

Provincial

SRDS

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

Government Publication Date: 1990-2014

Anderson's Storage Tanks:

Private

TANK

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

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks:

Federal

TCFT

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

Government Publication Date: 1970-Jan 2015

TSSA Variances for Abandonment of Underground Storage Tanks:

Provincial

VAR

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

Government Publication Date: Feb 28, 2017

Waste Disposal Sites - MOE CA Inventory:

Provincial

WDS

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

Government Publication Date: 1970-Nov 2016

Waste Disposal Sites - MOE 1991 Historical Approval Inventory:

Provincial

WDSH

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

Government Publication Date: Up to Oct 1990*

Water Well Information System:

Provincial

WWIS

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

Government Publication Date: Jun 30, 2016

Definitions

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

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

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

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

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

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

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

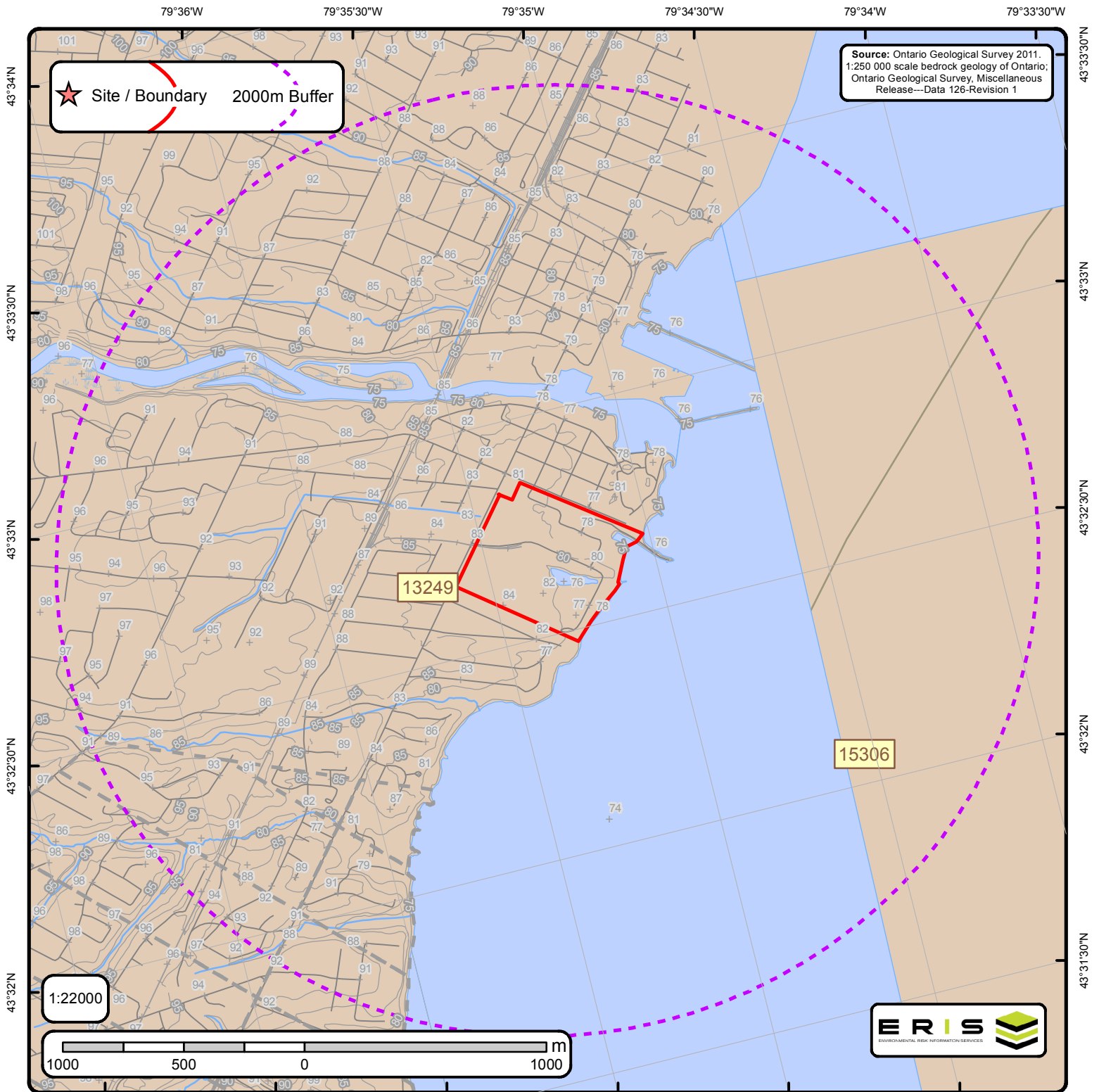
'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

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

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

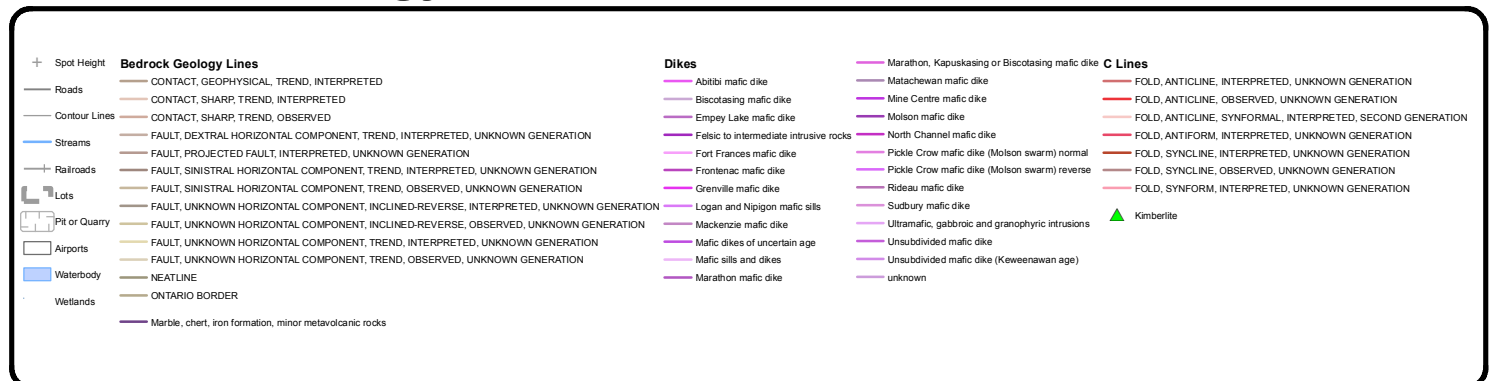
The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

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



Bedrock Geology of Ontario

Order No. 20170329097





Bedrock Geology Report

Bedrock Geology units found within 2000 m of
10 Mississauga Rd S, Mississauga, ON, L5H2H1

Page 1
Order ID:
20170329097



ID: 13249 | **Unit Name:** |
Type (All): 55b | **Type (Primary):** 55b | **Type (Secondary):** | **Type (Tertiary):** | **Rock Type (Primary):** Shale, limestone, dolostone, siltstone | **Stratus (Primary):** Georgian Bay Formation; Blue Mountain Formation; Billings Formation; Collingwood Member; Eastview Member | **Super Eon (Primary):** | **Eon (Primary):** PHANEROZOIC (Present to 542.0 Ma) | **Era (Primary):** PALEOZOIC (251.0 Ma to 542.0 Ma) | **Period (Primary):** ORDOVICIAN (443.7 Ma to 488.3 Ma) | **Epoch (Primary):** UPPER ORDOVICIAN | **Province (Primary):**

ID: 15306 | **Unit Name:** |
Type (All): LIMIT | **Type (Primary):** LIMIT | **Type (Secondary):** | **Type (Tertiary):** | **Rock Type (Primary):** | **Stratus (Primary):** | **Super Eon (Primary):** | **Eon (Primary):** | **Era (Primary):** | **Period (Primary):** | **Epoch (Primary):** | **Province (Primary):**



Bedrock Geology Report Metadata

Ontario Geological Survey 2011. 1:250 000 scale bedrock geology of Ontario; Ontario Geological Survey, Miscellaneous Release-Data 126
Revision1
ONTARIO MINISTRY OF NORTHERN DEVELOPMENT, MINES AND FORESTRY



ID - Unit ID **Unit Name** - Generalized geological unit classification

Type (All) - The geological unit number(s) or code(s) for all rock types present in an individual polygon.

Type (Primary) - The primary geological unit number or code for the primary rock type in an individual polygon

Type (Secondary) - The secondary geological unit number or code for the secondary rock type, if present, in an individual polygon

Type (Tertiary) - The tertiary geological unit number or code for the tertiary rock type, if present, in an individual polygon

Rock Type (Primary) - Rock type or sub-unit description

Status (Primary) - The Stratigraphic unit. Divided into:

Supergroup (two or more groups and lone formations)
Group (two or more formations)
Formation (primary unit of lithostratigraphy)
Member (named lithologic subdivision of a formation)
Bed (named distinctive layer in a member or formation)

Super Eon (Primary) - A name given to the largest defined unit of geological time, divided into Eons. Unique values which this field may contain (Domains) are:

PRECAMBRIAN (0.542 Ga to <3.85 Ga)

Eon (Primary) - A name given to a defined unit of geological time, divided into Eras. Unique values which this field may contain (Domains) are:

ARCHEAN (2.5 Ga to <3.85 Ga)
PROTEROZOIC (0.542 Ga to 2.50 Ga)
PHANEROZOIC (Present to 542.0 Ma)

Era (Primary) - A name given to a defined unit of geological time, divided into Periods. Each era on the scale is separated from the next by a major event or change. Unique values which this field may contain (Domains) are:

MESOARCHEAN (2.8 Ga to 3.2 Ga)	MESOPROTEROZOIC (1.0 Ga to 1.6 Ga)
NEO-TO MESOARCHEAN (2.5 Ga to 3.2 Ga)	EARLY PALEOZOIC TO NEOPROTEROZOIC (443.7 Ma to 1.0 Ga)
NEOARCHEAN (2.5 Ga to 2.8 Ga)	NEO-TO MESOPROTEROZOIC (0.542 Ga to 1.6 Ga)
PALEOPROTEROZOIC (1.6 Ga to 2.5 Ga)	PALEOZOIC (251.0 Ma to 542.0 Ma)
MESO-TO PALEOPROTEROZOIC (1.0 Ga to 2.5 Ga)	MESOZOIC (65.5 Ma to 251.0 Ma)

Period (Primary) - A name given to a defined unit of geological time, divided into Epochs. Unique values which this field may contain (Domains) are:

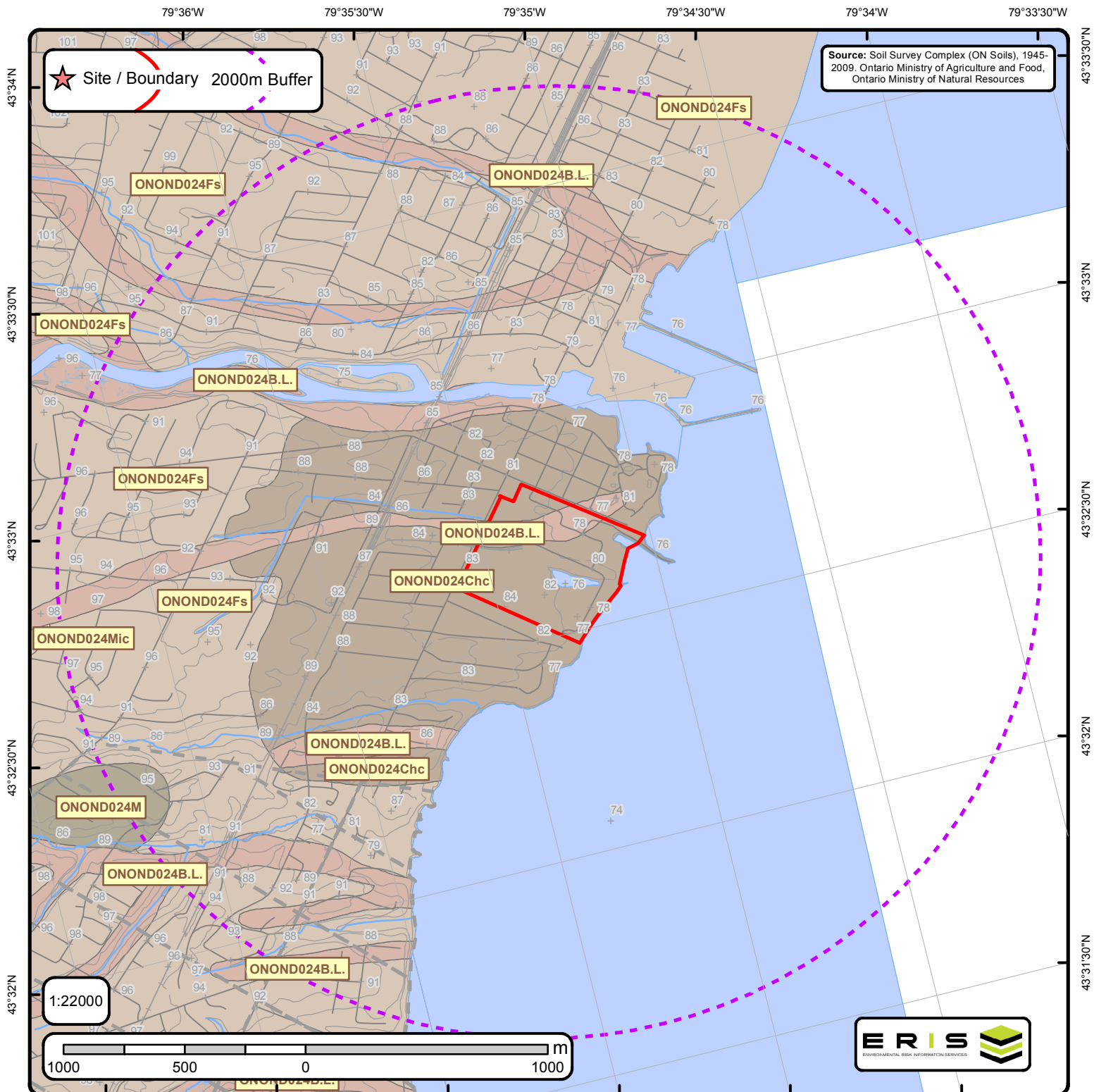
CAMBRIAN (488.3 Ma to 542.0 Ma)
ORDOVICIAN (443.7 Ma to 488.3 Ma)
SILURIAN (416.0 Ma to 443.7 Ma)
DEVONIAN (359.2 Ma to 416.0 Ma)
MISSISSIPPIAN TO DEVONIAN (318.1 Ma to 416.0 Ma)
JURASSIC (145.5 Ma to 199.6 Ma)
CRETACEOUS AND JURASSIC (65.5 Ma to 199.6 Ma)

Epoch (Primary) - A name given to a defined unit of geological time. Unique values which this field may contain (Domains) are:

LOWER ORDOVICIAN	UPPER SILURIAN
MIDDLE ORDOVICIAN	LOWER DEVONIAN
UPPER ORDOVICIAN	MIDDLE DEVONIAN
MIDDLE AND LOWER SILURIAN	UPPER DEVONIAN
UPPER SILURIAN TO LOWER DEVONIAN	LOWER CRETACEOUS AND MIDDLE JURASSIC

Province (Primary) - The Geological Province the geological unit is in. Unique values which this field may contain (Domains) are:

SUPERIOR
SOUTHERN
SUPERIOR
GRENVILLE



Soil Survey Complex (ON Soils)

Order No. 20170329097

- | | | | |
|-------|---------------|--|---------------|
| + | Spot Height | | Lots |
| —+—+— | Railroads | | Pit or Quarry |
| — | Roads | | Airports |
| — | Contour Lines | | Wetlands |
| — | Streams | | Waterbody |



Soils Report

Soil Map Units Found within 2000 m of
10 Mississauga Rd S, Mississauga, ON, L5H2H1

Page 1
Order ID:
20170329097



Map Unit: ONOND024B.L. **Soil Complex:** 1 of 1 **Area (sq m):** 16211200.0

Soil Type: ONZAL___ | **Percent:** 100 | **Code:** ZAL | **Name:** BOTTOM LAND | **Symbol:** B.L. | **Parent Material:** | **Landscape:** |
Slope: -9.000000 | **Class:** | **Range:** | **Stoniness:** 0 | **CLI:** 5 | **CLI1:** I | **CLI2:** | **Survey:** PEEL | **Drainage:** P | **Hydro:** | **Texture:**
| **Modifier:** ___

Map Unit: ONOND024B.L. **Soil Complex:** 1 of 1 **Area (sq m):** 63421.6992188

Soil Type: ONZAL___ | **Percent:** 100 | **Code:** ZAL | **Name:** BOTTOM LAND | **Symbol:** B.L. | **Parent Material:** | **Landscape:** |
Slope: -9.000000 | **Class:** | **Range:** | **Stoniness:** 0 | **CLI:** 5 | **CLI1:** I | **CLI2:** | **Survey:** PEEL | **Drainage:** P | **Hydro:** | **Texture:**
| **Modifier:** ___

Map Unit: ONOND024B.L. **Soil Complex:** 1 of 1 **Area (sq m):** 438531.0

Soil Type: ONZAL___ | **Percent:** 100 | **Code:** ZAL | **Name:** BOTTOM LAND | **Symbol:** B.L. | **Parent Material:** | **Landscape:** |
Slope: -9.000000 | **Class:** | **Range:** | **Stoniness:** 0 | **CLI:** 5 | **CLI1:** I | **CLI2:** | **Survey:** PEEL | **Drainage:** P | **Hydro:** | **Texture:**
| **Modifier:** ___

Map Unit: ONOND024Fs **Soil Complex:** 1 of 1 **Area (sq m):** 5653680.0

Soil Type: ONFOX___ | **Percent:** 100 | **Code:** FOX | **Name:** FOX SAND | **Symbol:** Fs | **Parent Material:** | **Landscape:** | **Slope:** 7 |
Class: D | **Range:** 5 - 9 | **Stoniness:** 0 | **CLI:** 2 | **CLI1:** F | **CLI2:** M | **Survey:** PEEL | **Drainage:** W | **Hydro:** A | **Texture:** S |
Modifier: ___

Map Unit: ONOND024Fs **Soil Complex:** 1 of 1 **Area (sq m):** 1768060.0

Soil Type: ONFOX___ | **Percent:** 100 | **Code:** FOX | **Name:** FOX SAND | **Symbol:** Fs | **Parent Material:** | **Landscape:** | **Slope:** 7 |
Class: D | **Range:** 5 - 9 | **Stoniness:** 0 | **CLI:** 2 | **CLI1:** F | **CLI2:** M | **Survey:** PEEL | **Drainage:** W | **Hydro:** A | **Texture:** S |
Modifier: ___

Map Unit: ONOND024Chc **Soil Complex:** 1 of 1 **Area (sq m):** 1761610.0

Soil Type: ONCGU___ | **Percent:** 100 | **Code:** CGU | **Name:** CHINGUACOUSY CLAY LOAM | **Symbol:** Chc | **Parent Material:** |
Landscape: | **Slope:** 3.500000 | **Class:** C | **Range:** 2 - 5 | **Stoniness:** 1 | **CLI:** 1 | **CLI1:** | **CLI2:** | **Survey:** PEEL | **Drainage:** I |
Hydro: C | **Texture:** CL | **Modifier:** ___

Map Unit: ONOND024B.L. **Soil Complex:** 1 of 1 **Area (sq m):** 217248.0

Soil Type: ONZAL___ | **Percent:** 100 | **Code:** ZAL | **Name:** BOTTOM LAND | **Symbol:** B.L. | **Parent Material:** | **Landscape:** |
Slope: -9.000000 | **Class:** | **Range:** | **Stoniness:** 0 | **CLI:** 5 | **CLI1:** I | **CLI2:** | **Survey:** PEEL | **Drainage:** P | **Hydro:** | **Texture:**
| **Modifier:** ___

Map Unit: ONOND024Fs **Soil Complex:** 1 of 1 **Area (sq m):** 3214350.0

Soil Type: ONFOX___ | **Percent:** 100 | **Code:** FOX | **Name:** FOX SAND | **Symbol:** Fs | **Parent Material:** | **Landscape:** | **Slope:** 7 |
Class: D | **Range:** 5 - 9 | **Stoniness:** 0 | **CLI:** 2 | **CLI1:** F | **CLI2:** M | **Survey:** PEEL | **Drainage:** W | **Hydro:** A | **Texture:** S |
Modifier: ___

Map Unit: ONOND024Fs **Soil Complex:** 1 of 1 **Area (sq m):** 4277680.0

Soil Type: ONFOX___ | **Percent:** 100 | **Code:** FOX | **Name:** FOX SAND | **Symbol:** Fs | **Parent Material:** | **Landscape:** | **Slope:** 7 |
Class: D | **Range:** 5 - 9 | **Stoniness:** 0 | **CLI:** 2 | **CLI1:** F | **CLI2:** M | **Survey:** PEEL | **Drainage:** W | **Hydro:** A | **Texture:** S |
Modifier: ___

Map Unit: ONOND024Chc **Soil Complex:** 1 of 1 **Area (sq m):** 70539.703125

Soil Type: ONCGU___ | **Percent:** 100 | **Code:** CGU | **Name:** CHINGUACOUSY CLAY LOAM | **Symbol:** Chc | **Parent Material:** |
Landscape: | **Slope:** 3.500000 | **Class:** C | **Range:** 2 - 5 | **Stoniness:** 1 | **CLI:** 1 | **CLI1:** | **CLI2:** | **Survey:** PEEL | **Drainage:** I |
Hydro: C | **Texture:** CL | **Modifier:** ___



Soils Report

Soil Map Units Found within 2000 m of
10 Mississauga Rd S, Mississauga, ON, L5H2H1

Page 2
Order ID:
20170329097



Map Unit: ONOND024B.L. **Soil Complex:** 1 of 1 **Area (sq m):** 82556.296875

Soil Type: ONZAL___ | **Percent:** 100 | **Code:** ZAL | **Name:** BOTTOM LAND | **Symbol:** B.L. | **Parent Material:** | **Landscape:** |
Slope: -9.000000 | **Class:** | **Range:** | **Stoniness:** 0 | **CLI:** 5 | **CLI1:** I | **CLI2:** | **Survey:** PEEL | **Drainage:** P | **Hydro:** | **Texture:**
| **Modifier:** ___

Map Unit: ONOND024M **Soil Complex:** 1 of 1 **Area (sq m):** 190035.0

Soil Type: ONZMK___ | **Percent:** 100 | **Code:** ZMK | **Name:** MUCK | **Symbol:** M | **Parent Material:** | **Landscape:** | **Slope:**
1.200000 | **Class:** B | **Range:** 0.5 - 2 | **Stoniness:** 0 | **CLI:** O | **CLI1:** | **CLI2:** | **Survey:** PEEL | **Drainage:** VP | **Hydro:** D | **Texture:**
ORG | **Modifier:** ___

Map Unit: ONOND024Fs **Soil Complex:** 1 of 1 **Area (sq m):** 735478.0

Soil Type: ONFOX___ | **Percent:** 100 | **Code:** FOX | **Name:** FOX SAND | **Symbol:** Fs | **Parent Material:** | **Landscape:** | **Slope:** 7 |
Class: D | **Range:** 5 - 9 | **Stoniness:** 0 | **CLI:** 2 | **CLI1:** F | **CLI2:** M | **Survey:** PEEL | **Drainage:** W | **Hydro:** A | **Texture:** S |
Modifier: ___

Map Unit: ONOND024B.L. **Soil Complex:** 1 of 1 **Area (sq m):** 1481880.0

Soil Type: ONZAL___ | **Percent:** 100 | **Code:** ZAL | **Name:** BOTTOM LAND | **Symbol:** B.L. | **Parent Material:** | **Landscape:** |
Slope: -9.000000 | **Class:** | **Range:** | **Stoniness:** 0 | **CLI:** 5 | **CLI1:** I | **CLI2:** | **Survey:** PEEL | **Drainage:** P | **Hydro:** | **Texture:**
| **Modifier:** ___



Map Unit - The SOIL MAPUNIT is the basic element of an applied soil classification resulting from detailed soil surveys. Soil Map unit is comprised of one or more soil survey polygons. The MAPUNIT field was generated for each polygon by appending the PROVINCE and NSDB-ID codes with the MAP UNIT symbol that identified that polygon on the original printed soil map. The MAPUNIT usually encodes meaningful information about the soil type and topography; the same information which is found in the Component table. Within any one survey, a group of polygons with similar properties may be coded with the same MAPUNIT.

Soil Type - Identifies a specific soil profile.

Percent - Proportion of the area of the Soil Map Unit occupied by a specific soil component, expressed as a percent. For any particular SOIL MAPUNIT, the sum of the individual. Soil Map Unit Component Area values must be equal to 100%.

Code - Three letter CANSIS code for identifying soils. **Name** - Textual identifier of the soil. **Symbol** - Soil symbol as found in the soil Mapunit.

Survey - Name describing the geographic location where the Soil Survey was completed. Typically the name denotes an administrative boundary of an Upper Tier municipality that occurred at the time of the Soil Survey.

Slope - Predominant slope of the landscape expressed as a percent (%). Slope steepness is often referred to by Class.

Class	Range (%)	Terminology
A	0.0 - 0.5	Level
B	0.5 - 2	Nearly level
C	2.0 - 5	Very gentle slopes
D	5.0 - 9	Gentle slopes
E	9.0 - 15	Moderate slopes
F	15 - 30	Strong slopes
G	30 - 45	Very strong slopes
H	45 - 70	Extreme slopes
I	70 - 100	Steep slopes
J	> 100	Very steep slopes

Stoniness - Occurrence of surface stoniness

Code
- Not Applicable
0 Non-stony
1 Slightly stony
2 Moderately stony
3 Very stony
4 Exceedingly stony
5 Excessively stony

Drainage - Indicates classification of how well the soil drains.

Code
- Not Applicable
VR Very Rapidly
R Rapidly
W Well
MW Moderately Well
I Imperfectly
P Poorly
VP Very Poorly

Texture - Describes the soil texture of the A Horizon in the soil profile.

Code
S coarse sand and loamy sand
SL moderately coarse sandy loam
L medium - moderately fine loam
SIL silt loam
CL clay loam
SIC silty clay
C clay
O organic

CLI - Classification of soil and land physical and climatic capability for the production of common field crops as part of the Canada Land Inventory (CLI).

Class 1 No significant limitations in use for Crops
Class 2 moderate limitations on use for crops
Class 3 moderately severe limitations on use for crops.
Class 4 Severe limitations on use for crops.
Class 5 Very severe limitations preclude annual cultivation; improvements feasible.
Class 6 Natural grazing only; no improvements feasible.
Class 7 No capability for agriculture.

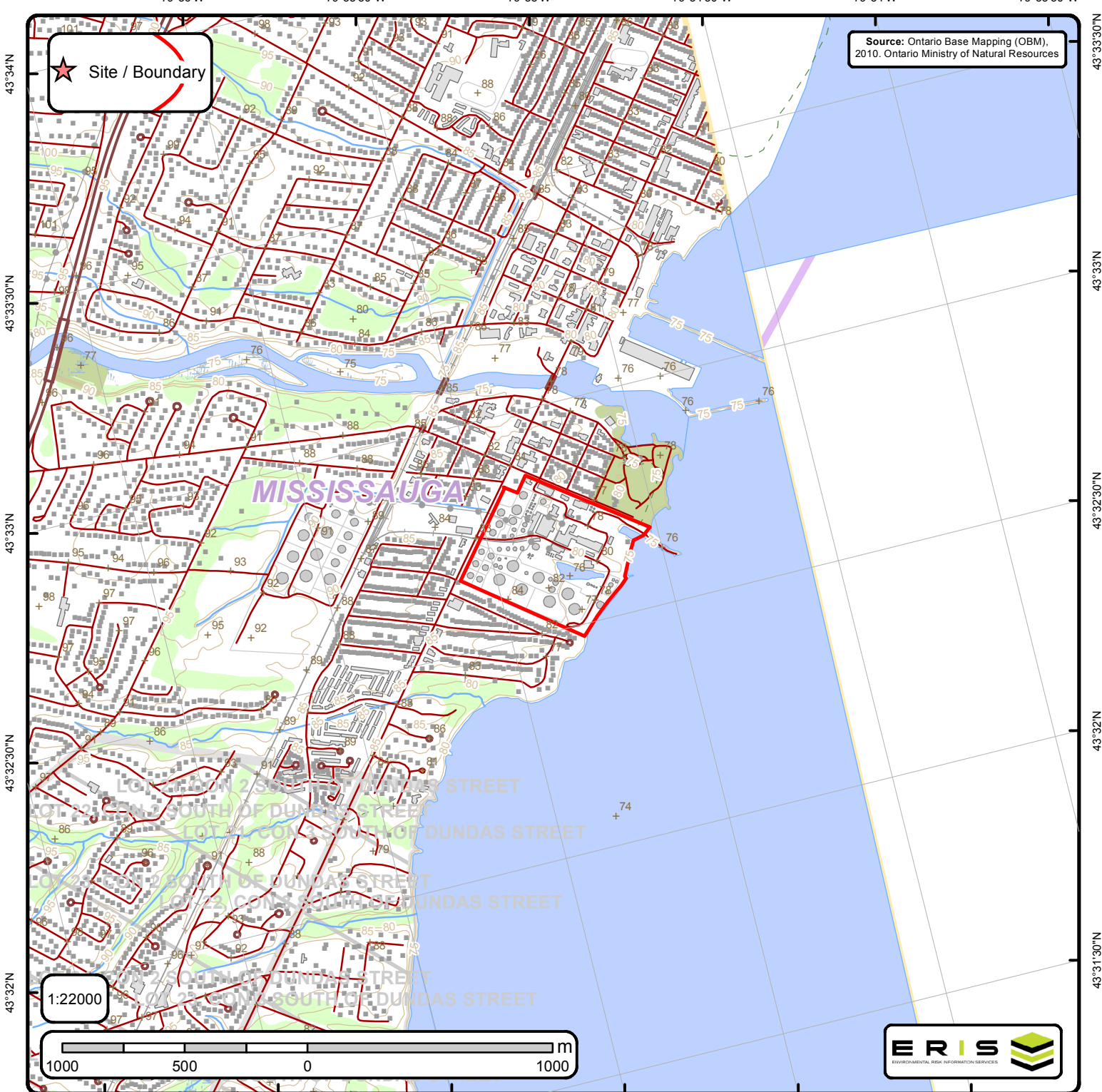
CLI1 and CLI2 - First and Second CLI (Canada Land Inventory) Limitation Subclass

Subclass C Land subject to crop heat unit regimes of under 2300 (i.e. adverse Climate)
Subclass D Adverse soil structure (i.e. Depth of rooting zone is restricted)
Subclass E Loss of soil profile from Erosion
Subclass F Low inherent soil Fertility
Subclass I Subject to occasional flooding (Inundation) from adjacent streams or waterbodies
Subclass M Low inherent Moisture holding capacity
Subclass P Presence of surface stones > 15 cm diameter.
Subclass R Presence of consolidated bedrock within one metre of the soil surface
Subclass S Presence of a combination of the Subclasses F and M, or, the presence of a combination of the Subclasses P and R (i.e. adverse soil characteristics)
Subclass T Presence of adverse Topography

Hydro - Hydrological Soil Groups classify soils into 4 groups (A,B,C,and D) according to water run-off and infiltration rates.

A Soils that have a low runoff potential and high infiltration rate, as the soils typically are sands and gravel.
B Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures.
C Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture.
D Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material.

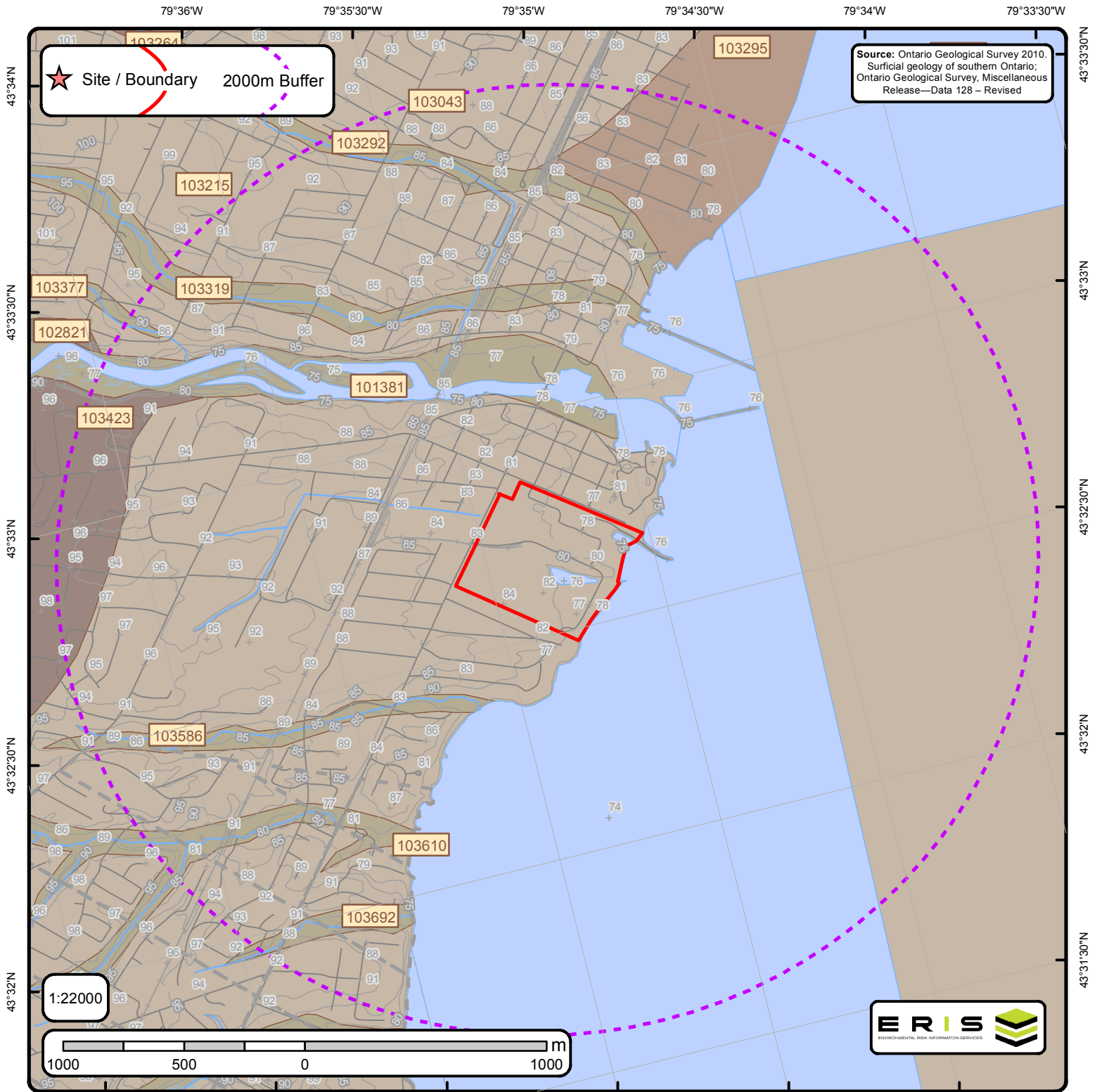
79°36'W 79°35'30"W 79°35'W 79°34'30"W 79°34'W 79°33'30"W



Ontario Base Mapping (OBM) Data

Order No. 20170329097

+	Spot Height (metre)	—	Transportation Structure	—	Contour Line	■	Wooded Area
■	Building Point	—	Utility Line	■	Pit or Quarry	■	Conservation Authority
⚙	Towers	—	Water Structure	■	Waterbody	■	Conservation Area
●	Utility Site Point	—	Drainage Line Feature	■	Wetlands	■	Municipal Park
—	Misc. Line	—	River or Stream	■	Concession	■	Provincial Park
—	Railroads	■	Airports	■	Lots	■	National Park
—	Roads	■	Tanks	■	Municipality	■	Nature Reserve
—	Trail	■	Building to Scale	■	Land Ownership		



The Surficial Geology of Southern Ontario Order No. 20170329097



Surface Geology Report

Surface Geology units found within 2000 m of
10 Mississauga Rd S, Mississauga, ON, L5H2H1

Page 1
Order ID:
20170329097



ID: 101381 | **Unit Name:** Modern Alluvium |
Deposit Type Code: 16 | **Deposit Age:** Recent | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000 |
Primary Material: clay, silt, sand, gravel | **Primary Material Modifier:** organic-bearing | **Secondary Material:** | **Primary General:** fluvial
| **Primary General Modifier:** modern floodplain | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface
| **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Undifferentiated Gravel, Sand, Silt,
Clay, Muck

ID: 102178 | **Unit Name:** Deltaic And Lacustrine Deposits |
Deposit Type Code: 12 | **Deposit Age:** Late Wisconsinan | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50
000 | **Primary Material:** sand | **Primary Material Modifier:** stony, silty | **Secondary Material:** | **Primary General:** glaciolacustrine |
Primary General Modifier: deltaic | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface |
Provenance: | **Carbon Content:** | **Formation:** | **Permeability:** High | **Material Description:** Predominantly Gravelly Sand And Silty
Sand

ID: 103043 | **Unit Name:** Deltaic And Lacustrine Deposits |
Deposit Type Code: 12 | **Deposit Age:** Late Wisconsinan | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50
000 | **Primary Material:** sand | **Primary Material Modifier:** stony, silty | **Secondary Material:** | **Primary General:** glaciolacustrine |
Primary General Modifier: deltaic | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface |
Provenance: | **Carbon Content:** | **Formation:** | **Permeability:** High | **Material Description:** Predominantly Gravelly Sand And Silty
Sand

ID: 103215 | **Unit Name:** Deltaic And Lacustrine Deposits |
Deposit Type Code: 12 | **Deposit Age:** Late Wisconsinan | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50
000 | **Primary Material:** sand | **Primary Material Modifier:** stony, silty | **Secondary Material:** | **Primary General:** glaciolacustrine |
Primary General Modifier: deltaic | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface |
Provenance: | **Carbon Content:** | **Formation:** | **Permeability:** High | **Material Description:** Predominantly Gravelly Sand And Silty
Sand

ID: 103292 | **Unit Name:** Modern Alluvium |
Deposit Type Code: 16 | **Deposit Age:** Recent | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000 |
Primary Material: clay, silt, sand, gravel | **Primary Material Modifier:** organic-bearing | **Secondary Material:** | **Primary General:** fluvial
| **Primary General Modifier:** modern floodplain | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface
| **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Undifferentiated Gravel, Sand, Silt,
Clay, Muck



Surface Geology Report

Surface Geology units found within 2000 m of
10 Mississauga Rd S, Mississauga, ON, L5H2H1

Page 2
Order ID:
20170329097



ID: 103295 | **Unit Name:** Glaciolacustrine Deposits |
Deposit Type Code: 10 | **Deposit Age:** Late Wisconsinan | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000 | **Primary Material:** clay, silt | **Primary Material Modifier:** | **Secondary Material:** diamicton | **Primary General:** glaciolacustrine | **Primary General Modifier:** foreshore/basinal | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Low | **Material Description:** Massive To Laminated Silt And Clay, May Contain Poorly Sorted Diamicton Layers

ID: 103319 | **Unit Name:** Modern Alluvium |
Deposit Type Code: 16 | **Deposit Age:** Recent | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000 | **Primary Material:** clay, silt, sand, gravel | **Primary Material Modifier:** organic-bearing | **Secondary Material:** | **Primary General:** fluvial | **Primary General Modifier:** modern floodplain | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Undifferentiated Gravel, Sand, Silt, Clay, Muck

ID: 103377 | **Unit Name:** Modern Alluvium |
Deposit Type Code: 16 | **Deposit Age:** Recent | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000 | **Primary Material:** clay, silt, sand, gravel | **Primary Material Modifier:** organic-bearing | **Secondary Material:** | **Primary General:** fluvial | **Primary General Modifier:** modern floodplain | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Undifferentiated Gravel, Sand, Silt, Clay, Muck

ID: 103423 | **Unit Name:** Bedrock |
Deposit Type Code: 1 | **Deposit Age:** Paleozoic | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000 | **Primary Material:** Paleozoic Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Exposed Or Thin Drift Covered Shale And Dolostone

ID: 103586 | **Unit Name:** Modern Alluvium |
Deposit Type Code: 16 | **Deposit Age:** Recent | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000 | **Primary Material:** clay, silt, sand, gravel | **Primary Material Modifier:** organic-bearing | **Secondary Material:** | **Primary General:** fluvial | **Primary General Modifier:** modern floodplain | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Undifferentiated Gravel, Sand, Silt, Clay, Muck



Surface Geology Report

Surface Geology units found within 2000 m of
10 Mississauga Rd S, Mississauga, ON, L5H2H1

Page 3
Order ID:
20170329097



ID: 103610 | **Unit Name:** Modern Alluvium |
Deposit Type Code: 16 | **Deposit Age:** Recent | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000 |
Primary Material: clay, silt, sand, gravel | **Primary Material Modifier:** organic-bearing | **Secondary Material:** | **Primary General:** fluvial
| **Primary General Modifier:** modern floodplain | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface
| **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Undifferentiated Gravel, Sand, Silt,
Clay, Muck

ID: 103692 | **Unit Name:** Modern Alluvium |
Deposit Type Code: 16 | **Deposit Age:** Recent | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000 |
Primary Material: clay, silt, sand, gravel | **Primary Material Modifier:** organic-bearing | **Secondary Material:** | **Primary General:** fluvial
| **Primary General Modifier:** modern floodplain | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface
| **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Undifferentiated Gravel, Sand, Silt,
Clay, Muck



Surface Geology Report Metadata

Ontario Geological Survey 2010. Surficial geology of southern Ontario;
Ontario Geological Survey, Miscellaneous Release - Data 128 - Revised.

ONTARIO MINISTRY OF NORTHERN DEVELOPMENT, MINES AND FORESTRY



ID - ID applied to the Unit

Unit Name - Name of deposit

Deposit Type Code - The geological unit number taken from the original map legend.

Deposit Age - to show the age when the sediments were deposited, e.g., Wisconsinan, postglacial or recent.

Map Number - Original map series number, eg., 'M2402' or 'P1973'. Each sgu_point feature is tagged to its original map.

Map Name - Usually NTS area where mapping was completed, e.g., 'Golden Lake'

Source Map Scale - The scale at which the original map was captured, e.g., '1:50 000'

Primary Material - This attribute provides the user with information regarding the most prevalent material present within a given area.

Primary Material Modifier - This attribute provides the user with a more refined description of the lithological classification of the primary material.

Secondary Material - This attribute provides the user with information regarding subordinate materials present within a given area.

Primary General - This attribute provides the user with an interpretation of the depositional environment within which the primary material was deposited.

Primary General Modifier - This attribute provides the user with a refined interpretation of the primary genetic modifier.

Veneer - This attribute provides the user with information regarding the type of material that forms a thin, discontinuous veneer over the primary material.

Sub Episode - A diachronic stratigraphic unit in a lower order than Episode and the proposed sequence-stratigraphic classification, consists in descending order of Michigan, Elgin and Ontario in the eastern and northern Great Lakes area in the Wisconsin Episode (Johnson et al. 1997; Karrow et al. 2000).

Sub Episode - A diachronic stratigraphic unit in a lower order than Episode and the proposed sequence-stratigraphic classification, consists in descending order of Michigan, Elgin and Ontario in the eastern and northern Great Lakes area in the Wisconsin Episode (Johnson et al. 1997; Karrow et al. 2000).

Phase - A diachronic stratigraphic unit in a lower order than Subepisode, and the proposed sequence-stratigraphic classification is listed in the following table in the eastern and northern Great Lakes area (Karrow et al. 2000)

Stratus Modifier - This attribute provides the user information regarding the stratigraphic position of the mapped unit (i.e., whether the unit occurs primarily on the surface or in the subsurface).

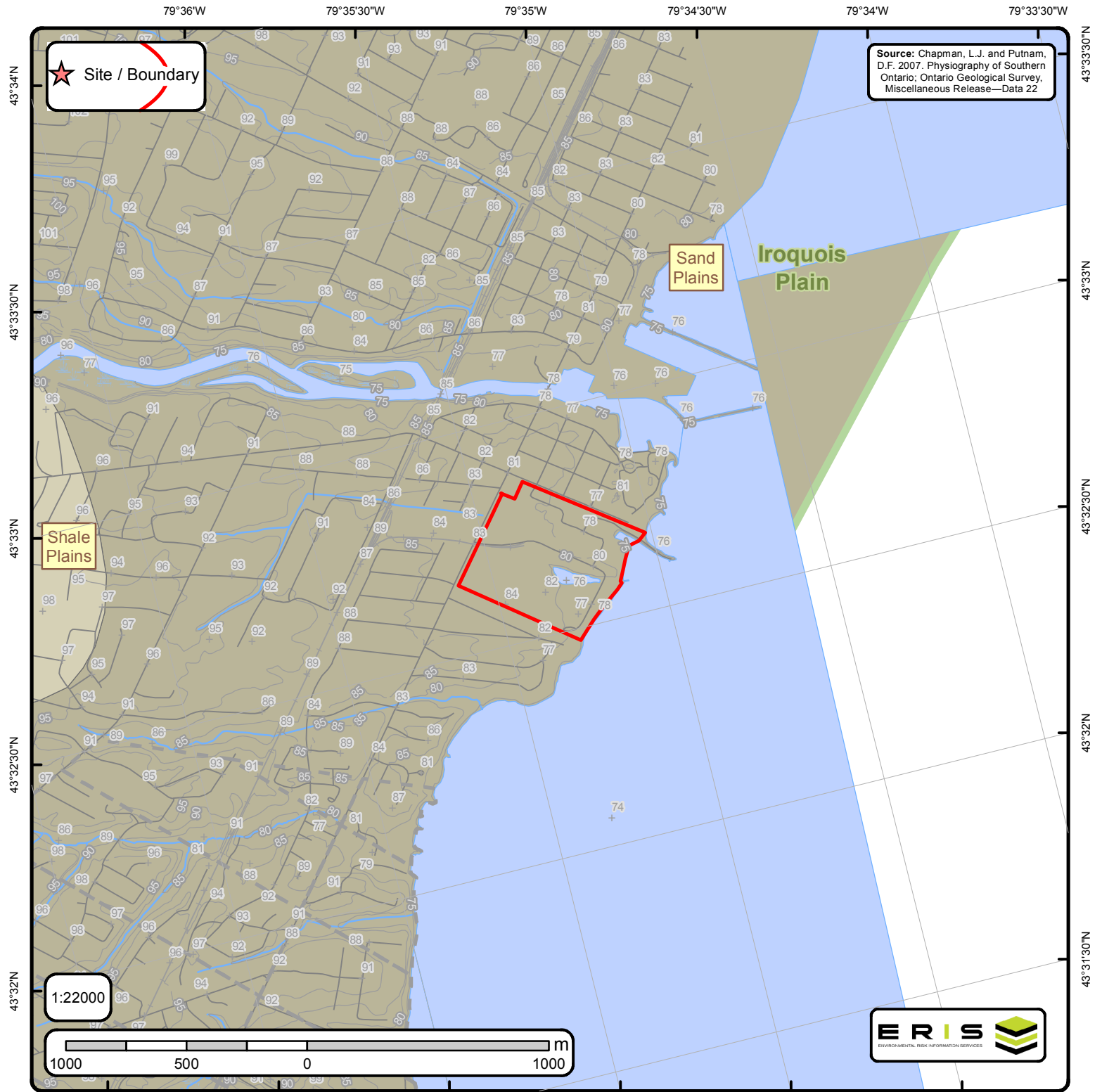
Provenance - This attribute provides the user with information regarding the provenance of a particular till unit (i.e. direction or lobe from which the till is derived).

Carbon Content - This attribute provides the user with information regarding the carbonate content of till.

Formation - This attribute provides the user with information regarding the formation to which a given primary material belongs (e.g., Tavistock Till, Port Stanley Till, Scarborough Formation). This attribute is seamless and allows the user to create a map based on formation.

Permeability - This attribute provides the user with basic information about permeability of the sediments in a ranking of high, medium and low.

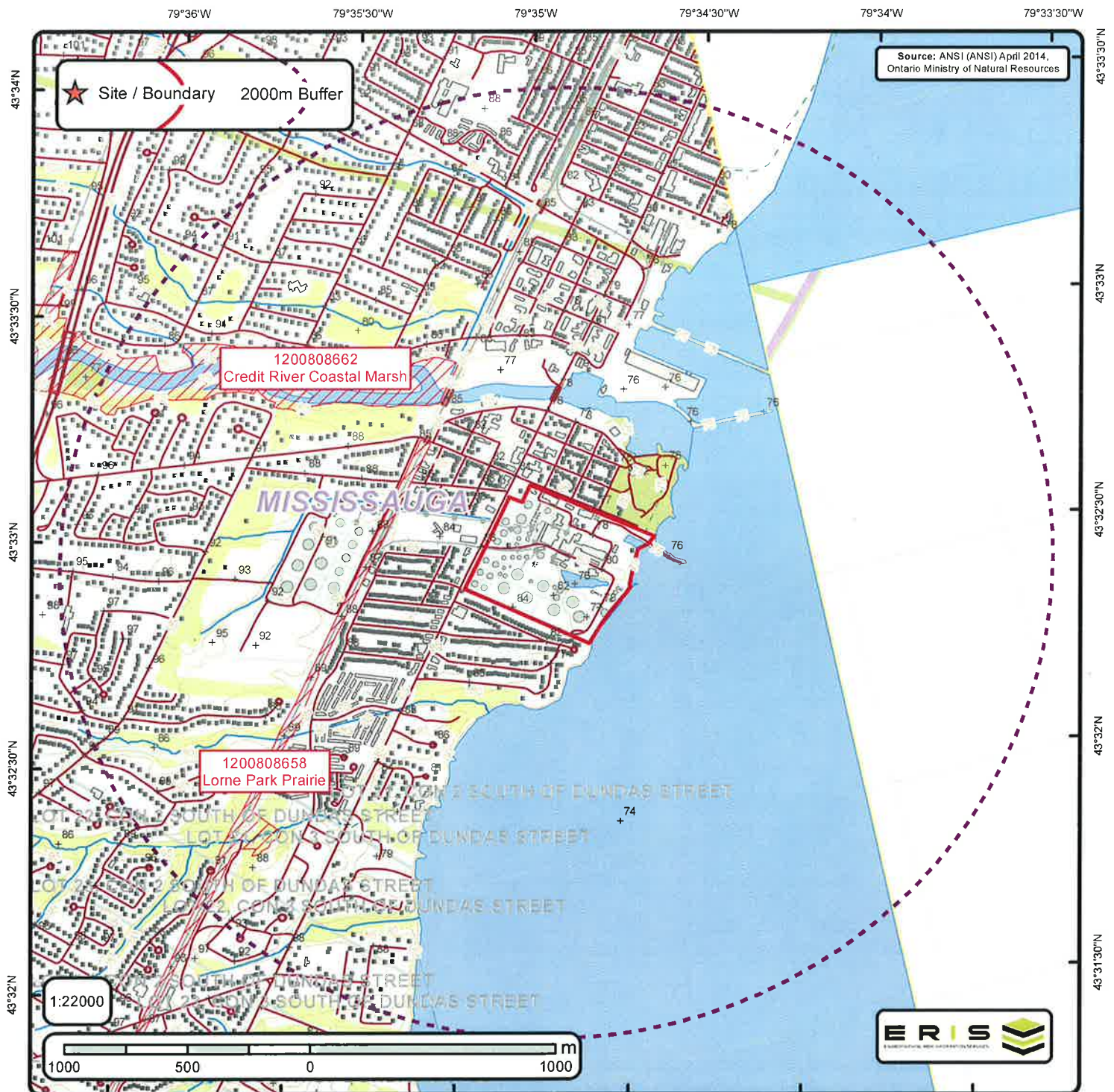
Material Description - Material or sediment description, e.g., 'sand and silty fine sand', 'silty sand and gravel' and 'silty till with low stone content'.



Physiography of Southern Ontario

Order No. 20170329097

+	Spot Height	▤	Lots	⬡	Boulder Pavement	■	Bare Rock Ridges And Shallow Till	■	Peat And Muck
—	Roads	▤	Pit or Quarry	⬡	Dissected Terrain	■	Beaches	■	Sand Plains
—	Railroads	▤	Airports	■	Mud Flow Scars	■	Bevelled Till Plains	■	Shale Plains
—	Contour Lines	▤	Wetlands	▤	Sand Dunes	■	Clay Plains	■	Shallow Till And Rock Ridges
—	Streams	▤	Waterbody	▤	escarpment	■	Drumlins	■	Spillways
		▤		▤	shorecliff	■	Escarments	■	Till Moraines
		▤		▤	shorecliff (weakly developed)	■	Eskers	■	Till Plains (Drumlinized)
		▤		▤	Physiography Regions	■	Kame Moraines	■	Till Plains (Undrumlinized)
		▤		▤		■	Limestone Plains		



Area of Natural & Scientific Interest (ANSI) Order No. 20170329097

+	Spot Height	—	Transportation Structure	—	Contour Line	■	Wooded Area
▪	Building Point	—	Utility Line	■	Pit or Quarry	■	Conservation Authority
⚡	Towers	—	Water Structure	■	Waterbody	■	Conservation Area
•	Utility Site Point	—	Drainage Line Feature	■	Wetlands	■	Municipal Park
—	Misc. Line	—	River or Stream	■	Concession	■	Provincial Park
—	Railroads	■	Airports	■	Lots	■	National Park
—	Roads	■	Tanks	■	Municipality	■	Nature Reserve
---	Trail	■	Building to Scale	■	Land Ownership	■	ANSI Area



ANSI Report

ANSI Units Found within 2000 m of
10 Mississauga Rd S, Mississauga, ON, L5H2H1

Page 1
Order ID:
20170329097

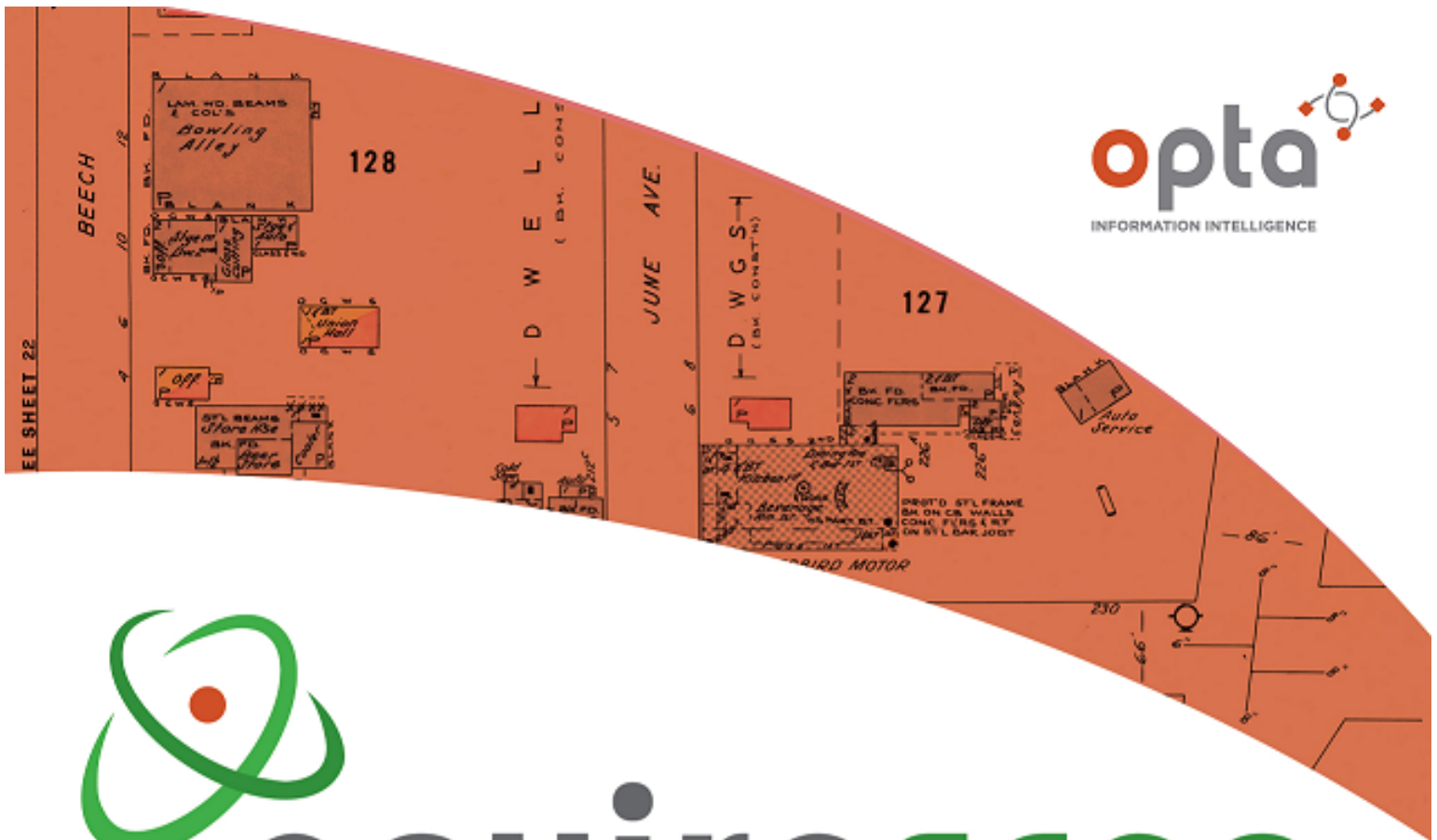


ANSI Name: Credit River Coastal Marsh |

ID: 1200808662 | **Type:** ANSI, Life Science | **Significance:** Regional | **Management Plan:** Yes | **Area (sqm):** 624028.915 | **Comments:**
Information not available at insertion stage.

ANSI Name: Lorne Park Prairie |

ID: 1200808658 | **Type:** ANSI, Life Science | **Significance:** Regional | **Management Plan:** Yes | **Area (sqm):** 196823.961 | **Comments:**
Information not available at insertion stage.



enviroscan



An SCM Company

175 Commerce Valley Drive W
Markham, Ontario L3T 7Z3

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

Report Completed By:
Anthony

Site Address:

70 Mississauga Road South Mississauga ON Canada

Project No:

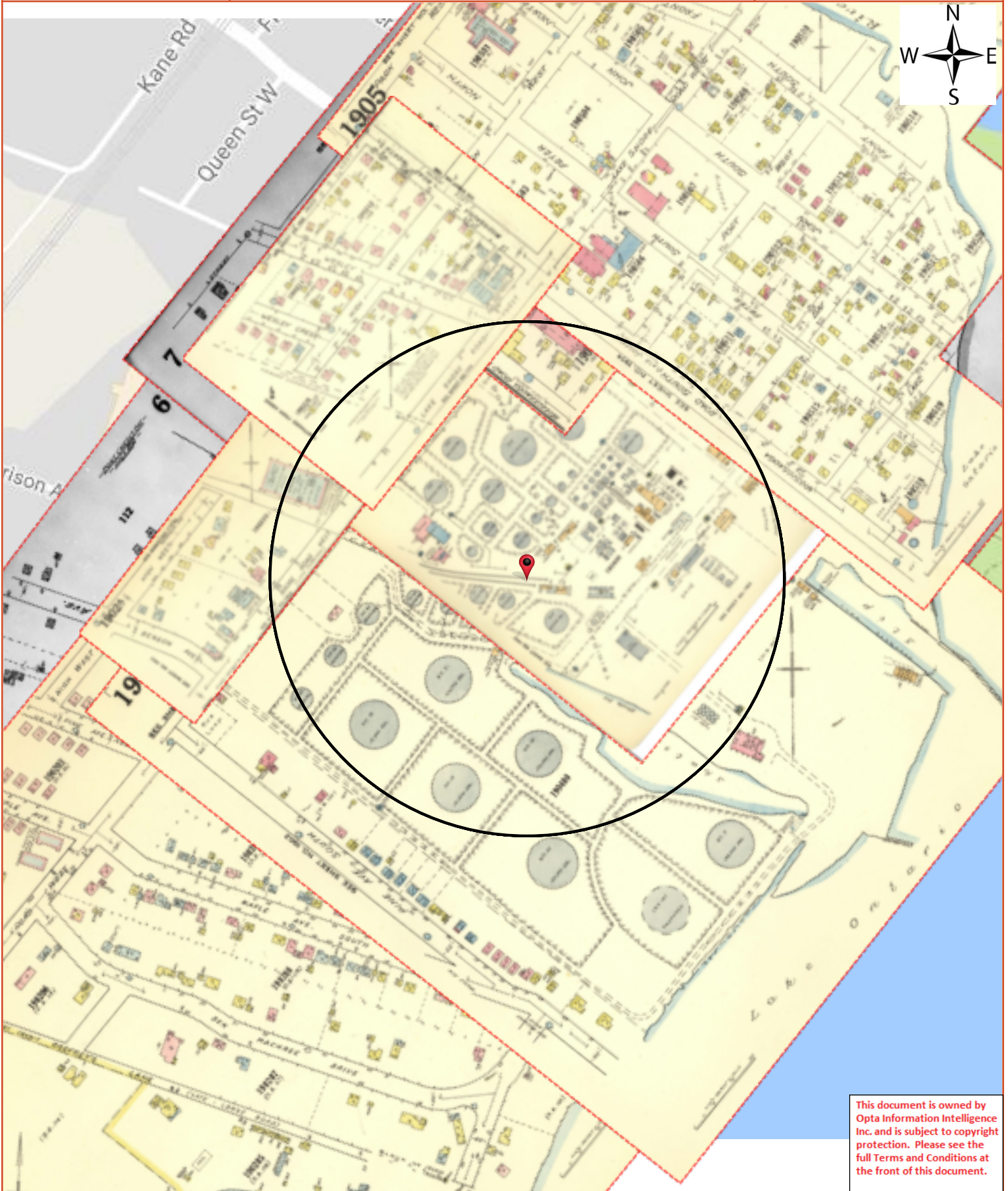
122120255
Opta Order ID:
35909

Requested by:

Breanne Graham
Stantec Consulting Ltd.

Date Completed:

6/21/2017 1:16:31 PM



Opta Historical Environmental Services EnviroscanTM Terms and Conditions

Report

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

Disclaimer

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

Entire Agreement

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

Governing Document

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

Law

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

Report Index

Requested by:

Breanne Graham

Date Completed: 06/21/2017 13:16:31

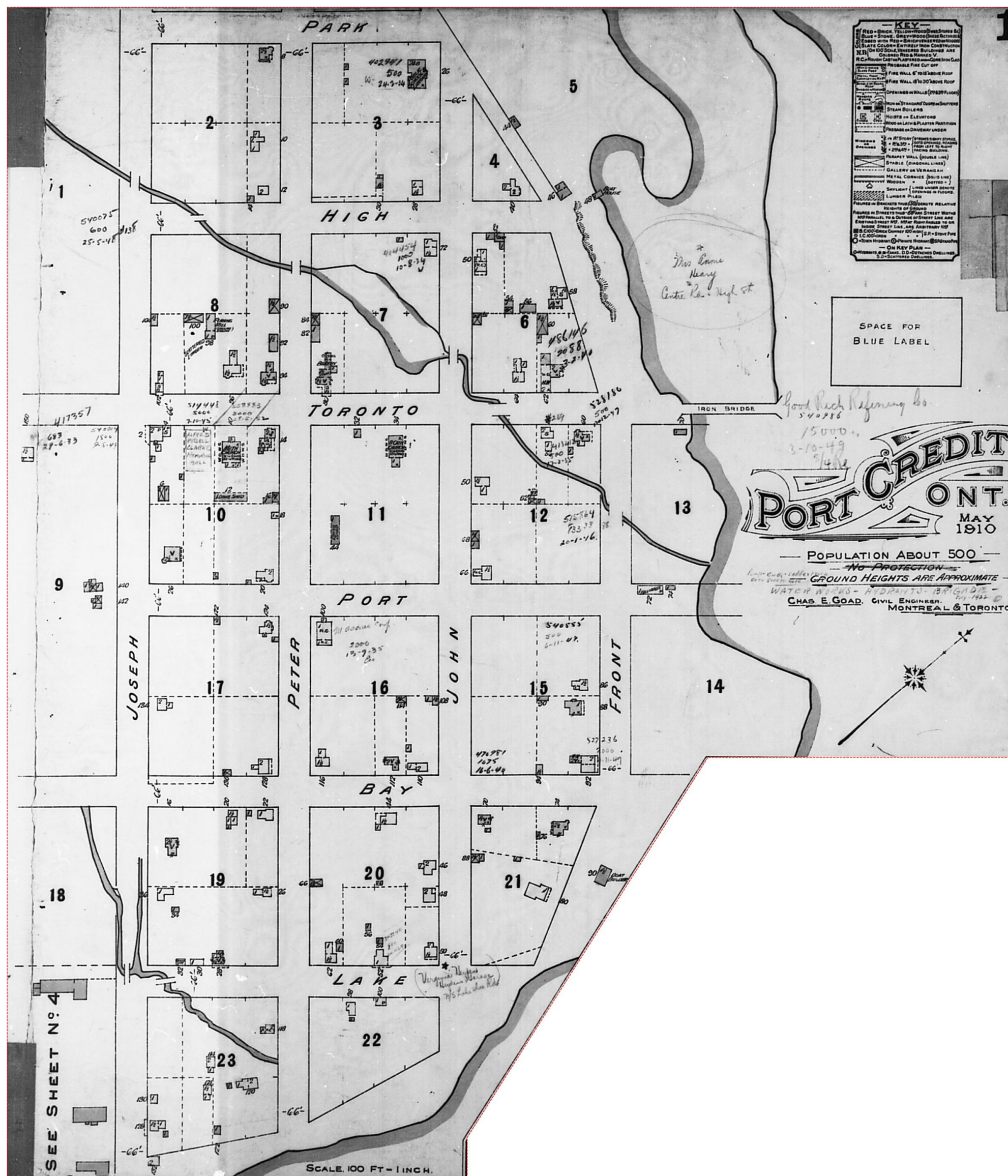


OPTA INFORMATION INTELLIGENCE

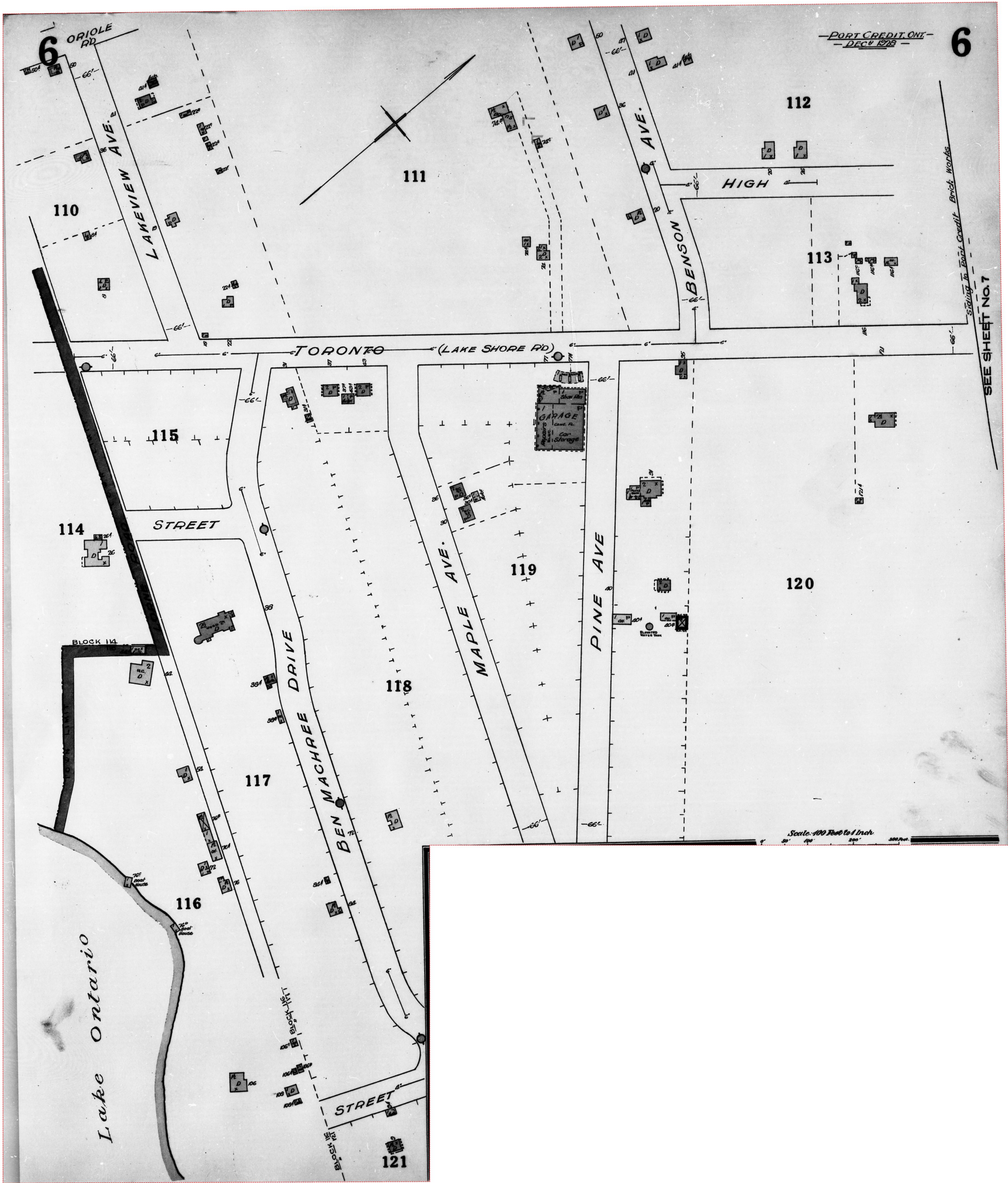
Page	Report Title
6	(1928) Volume: Port Credit Firemap: 6
8	(1928) Volume: Port Credit Firemap: 7
10	(1952) Volume: Toronto Volume 19 Firemap: 1903
12	(1952) Volume: Toronto Volume 19 Firemap: 1904
14	(1952) Volume: Toronto Volume 19 Firemap: 1905
16	(1952) Volume: Toronto Volume 19 Firemap: 1902A
18	(1952) Volume: Toronto Volume 19 Firemap: 1902A











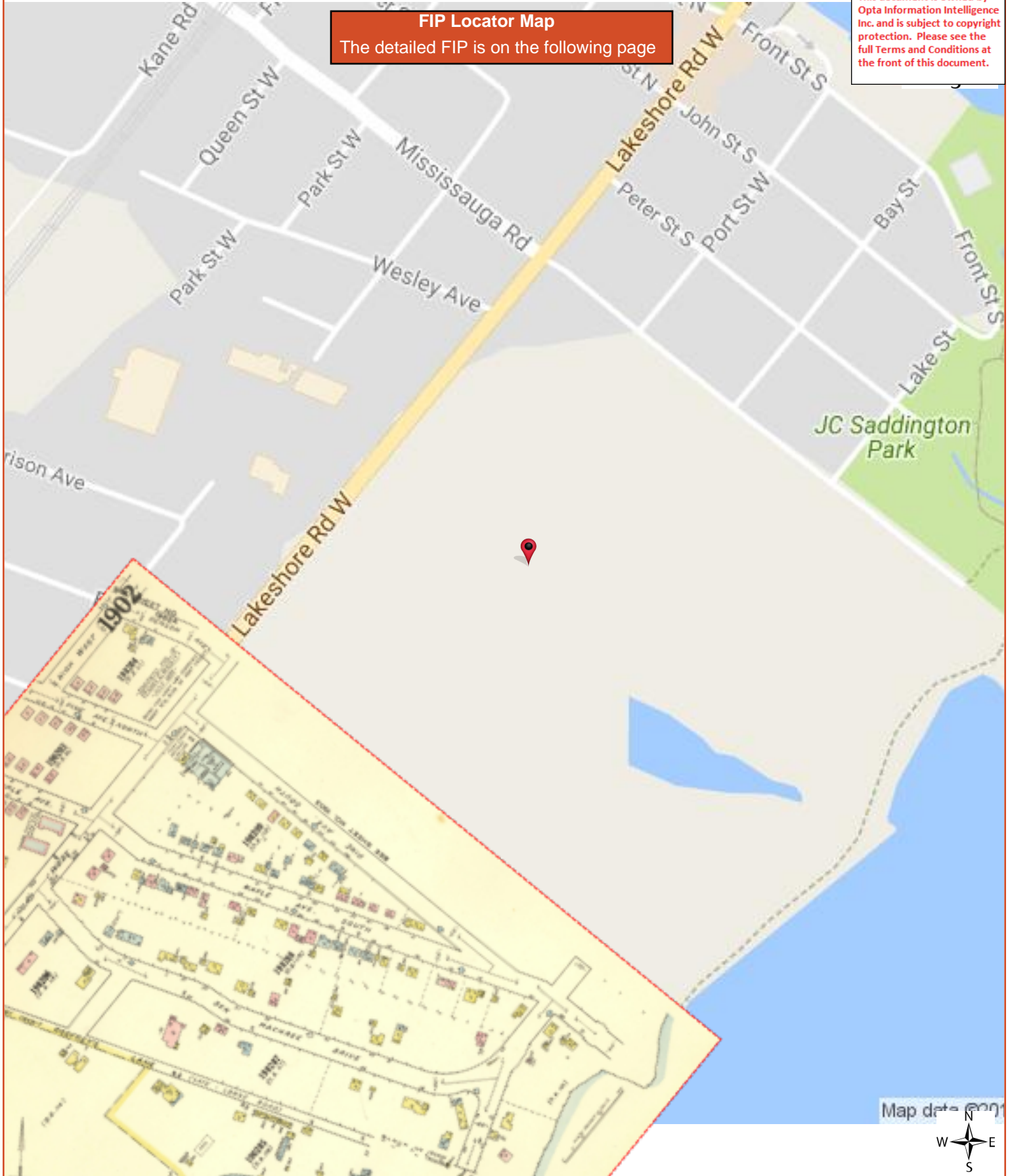


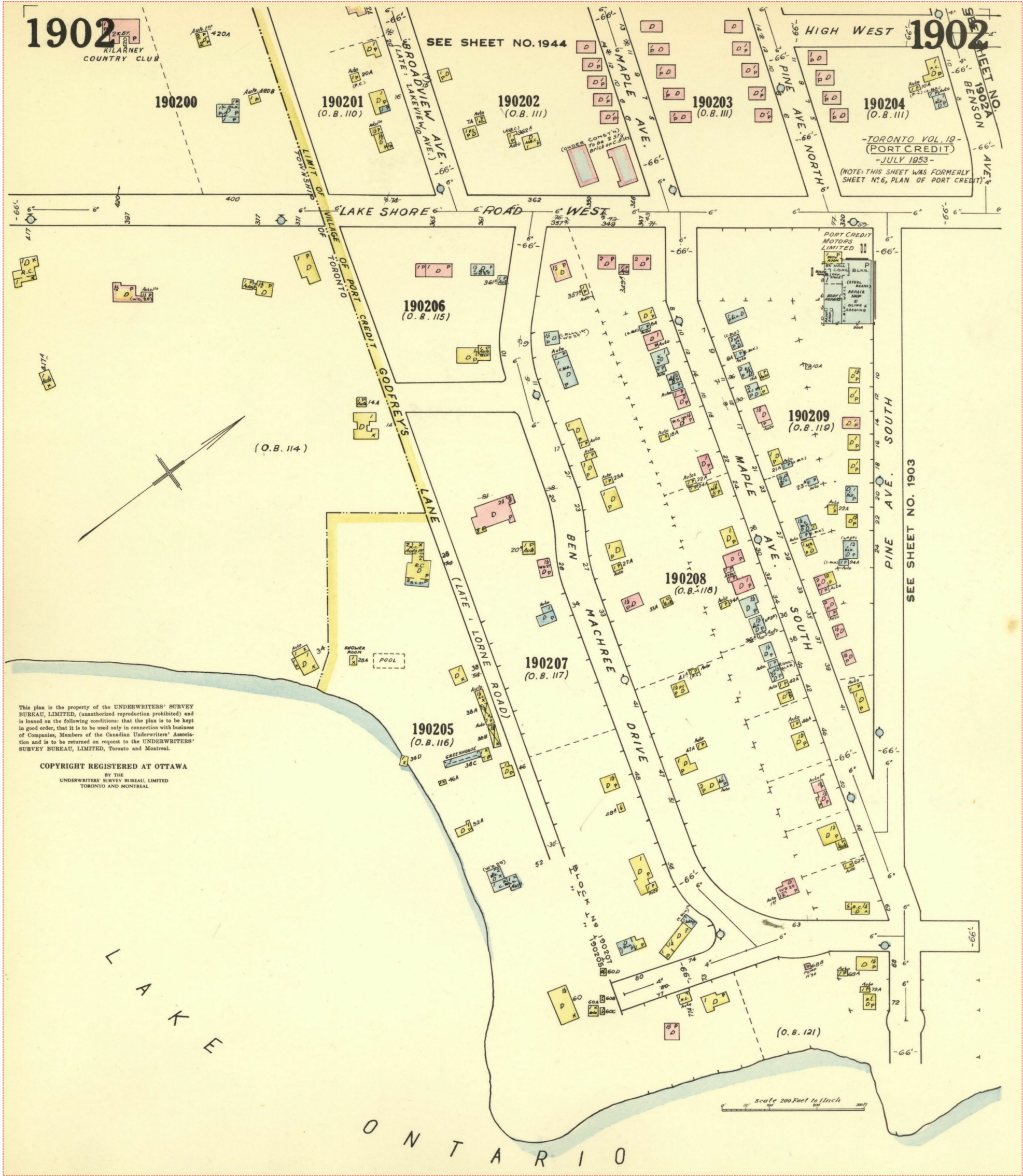


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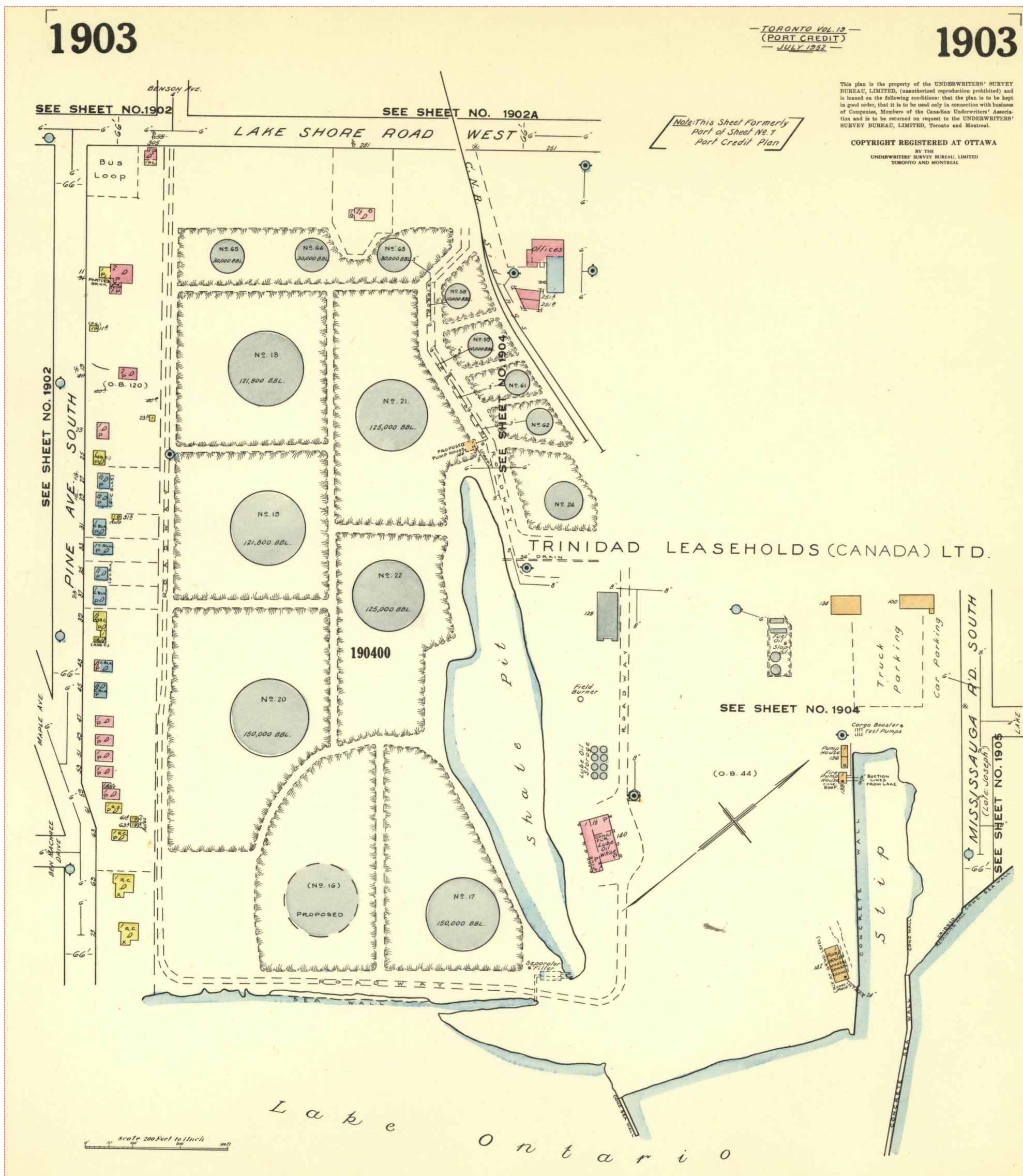
FIP Locator Map

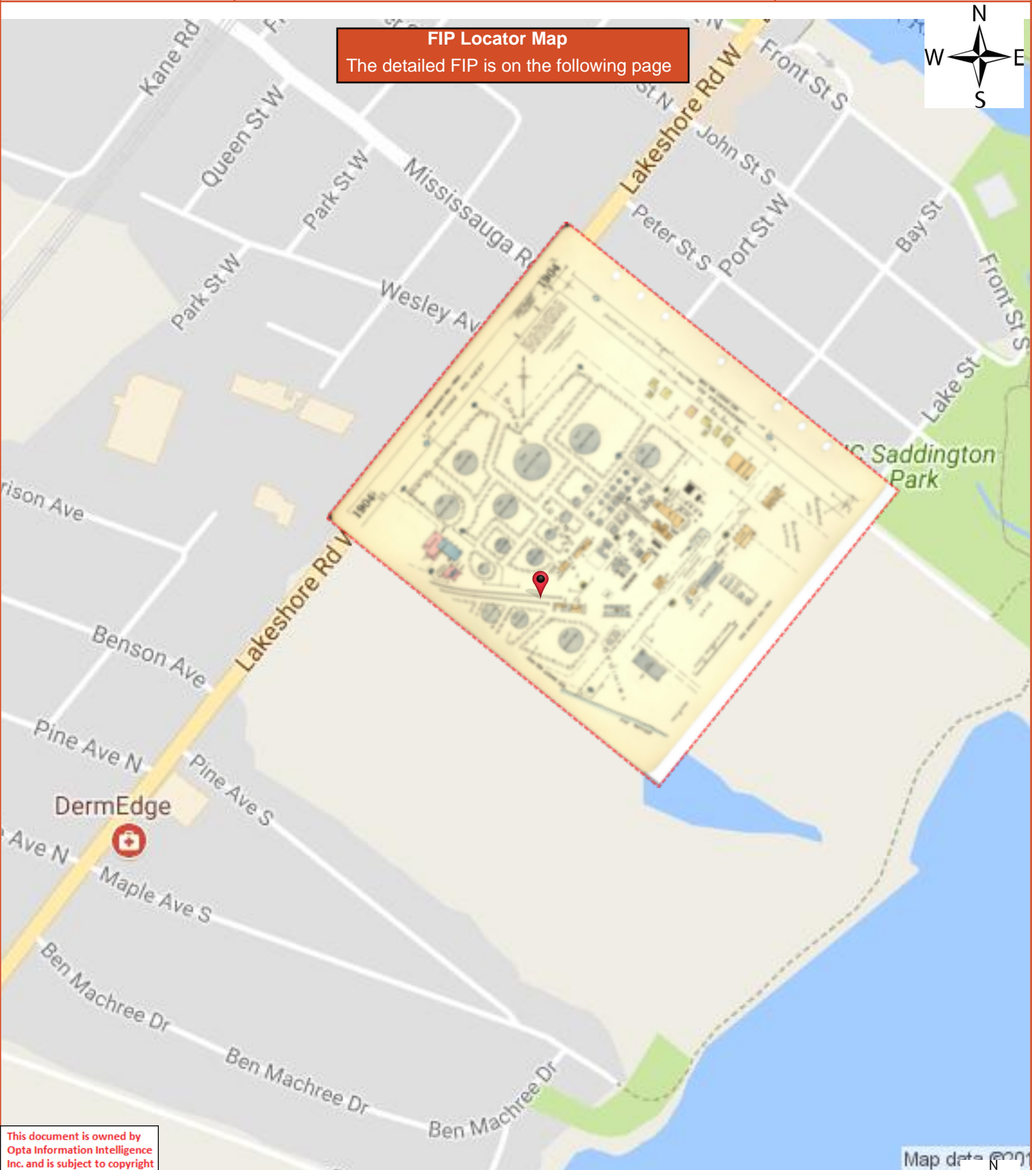
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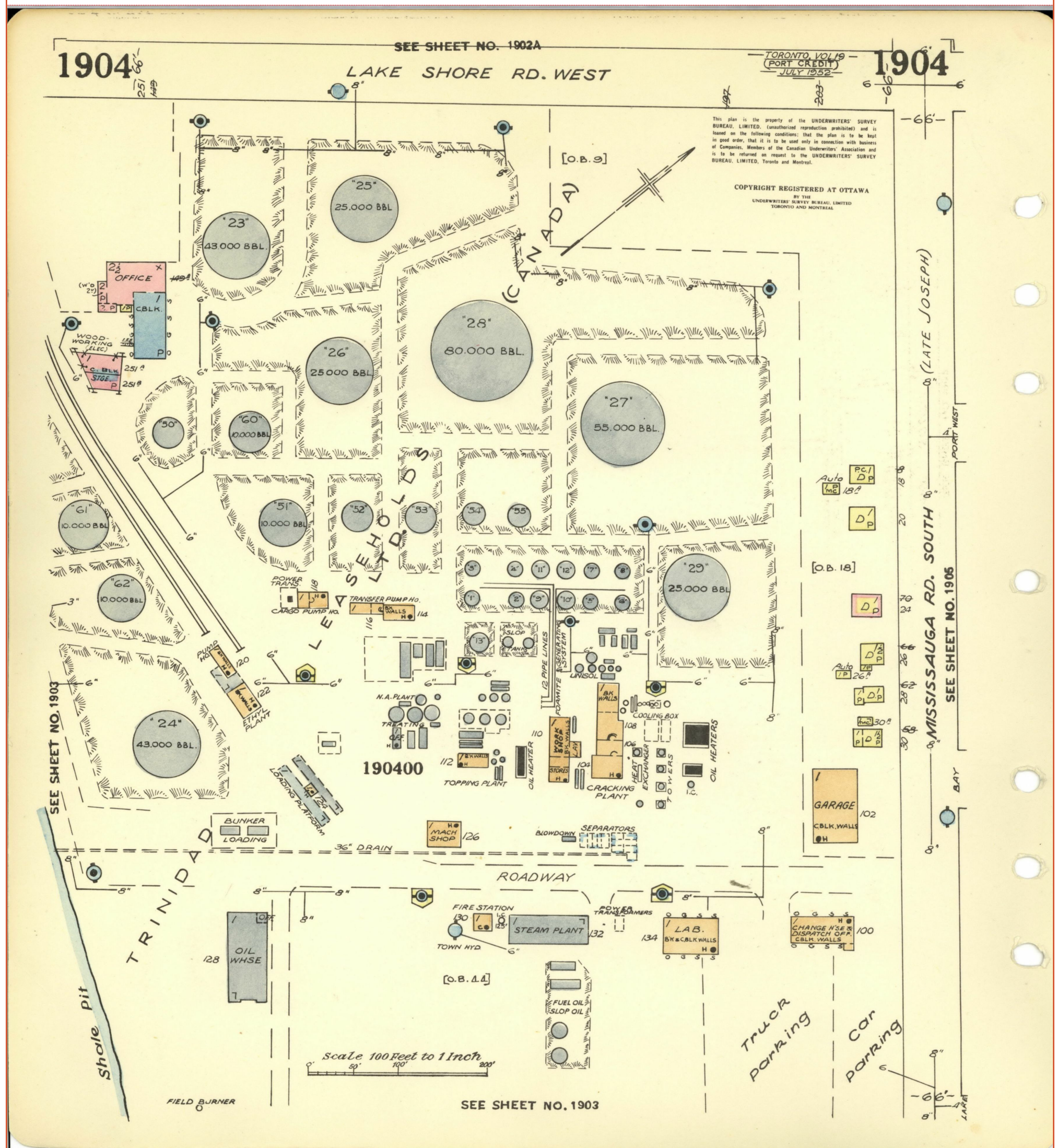




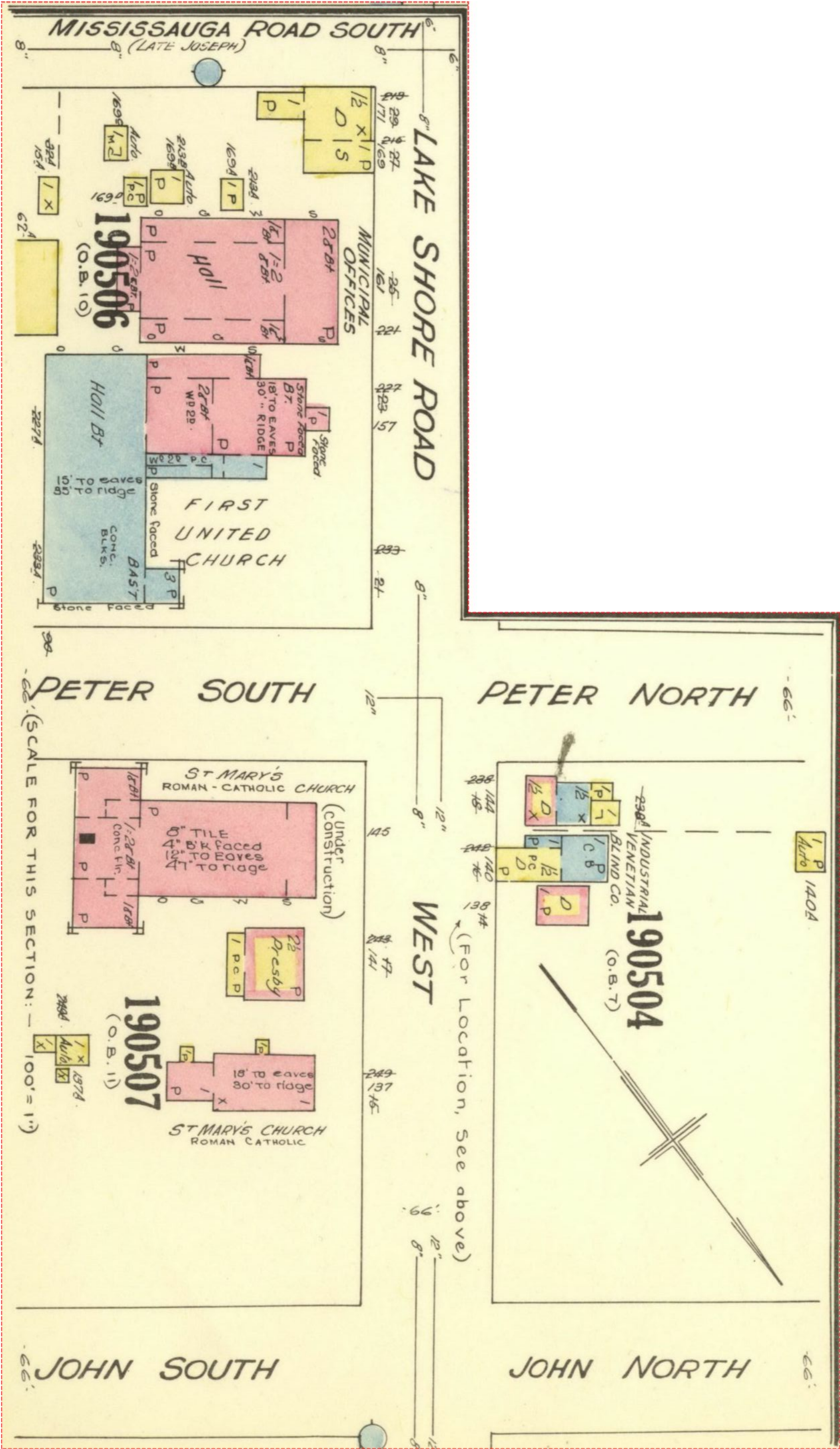


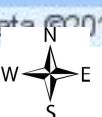
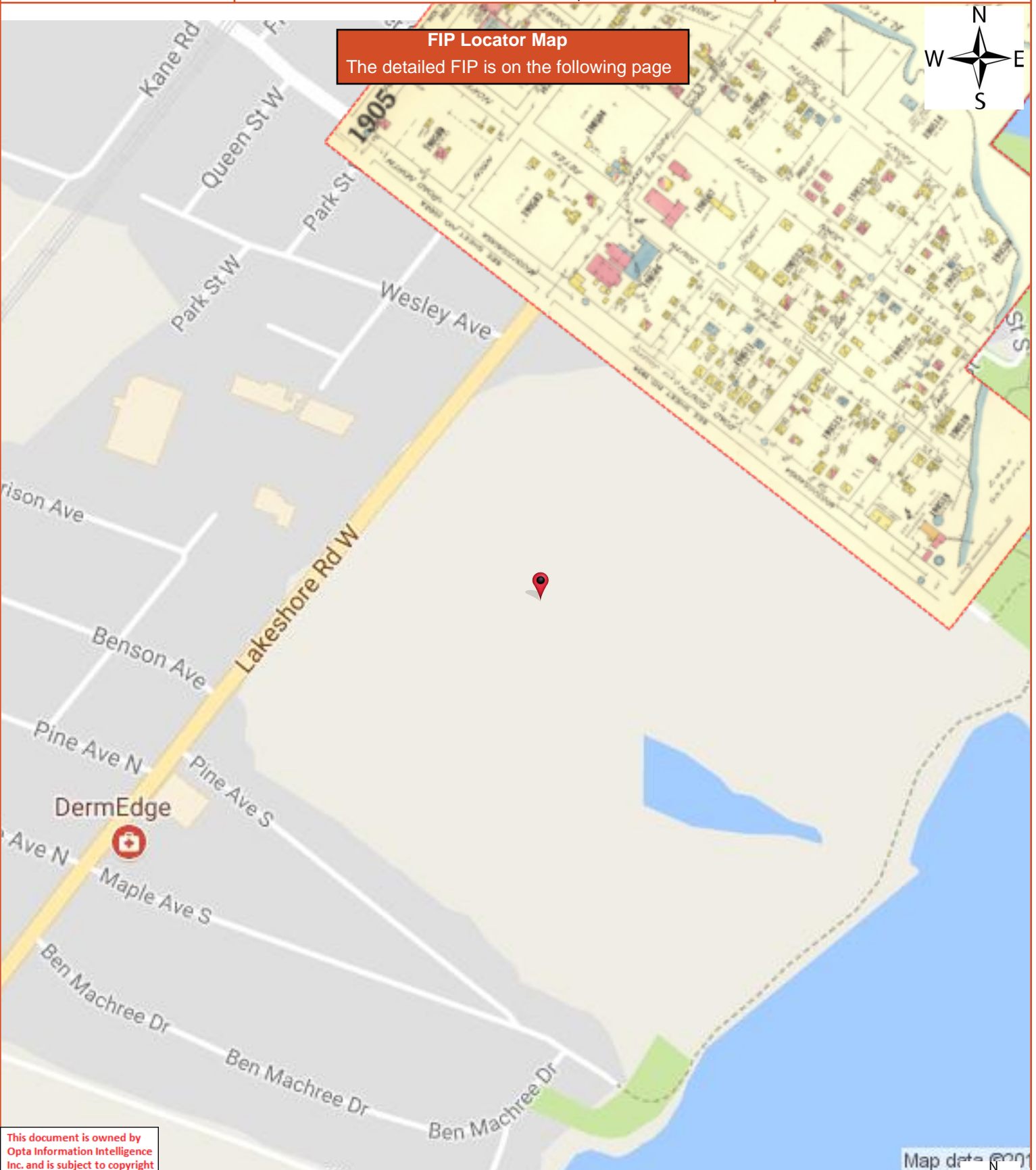
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Toronto Vol. 19 Plan: 2180 (1952)
Sheet: 1904 (1952)**

Requested by:
Breanne Graham
Date Completed: 06/21/2017 13:16:31

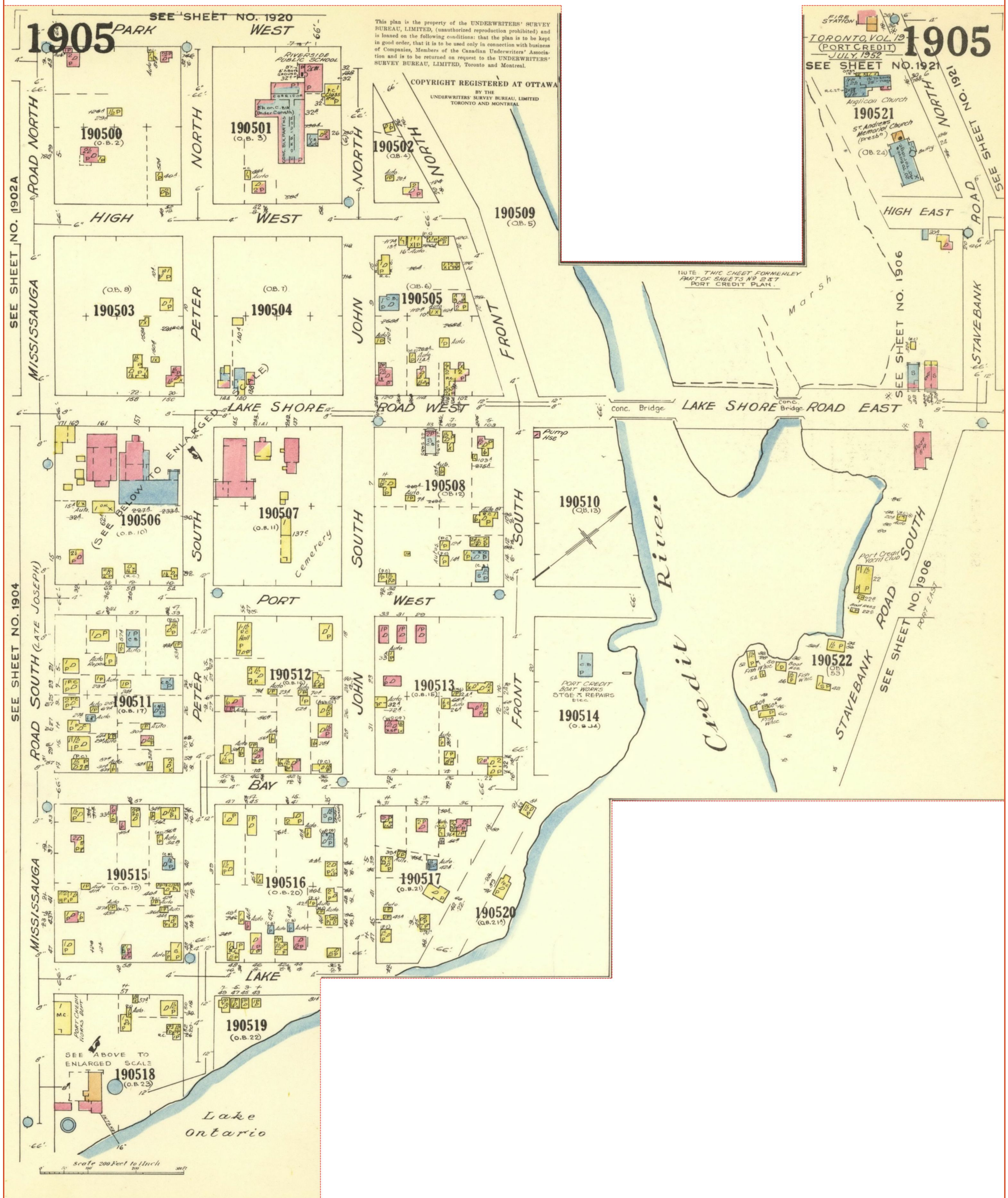


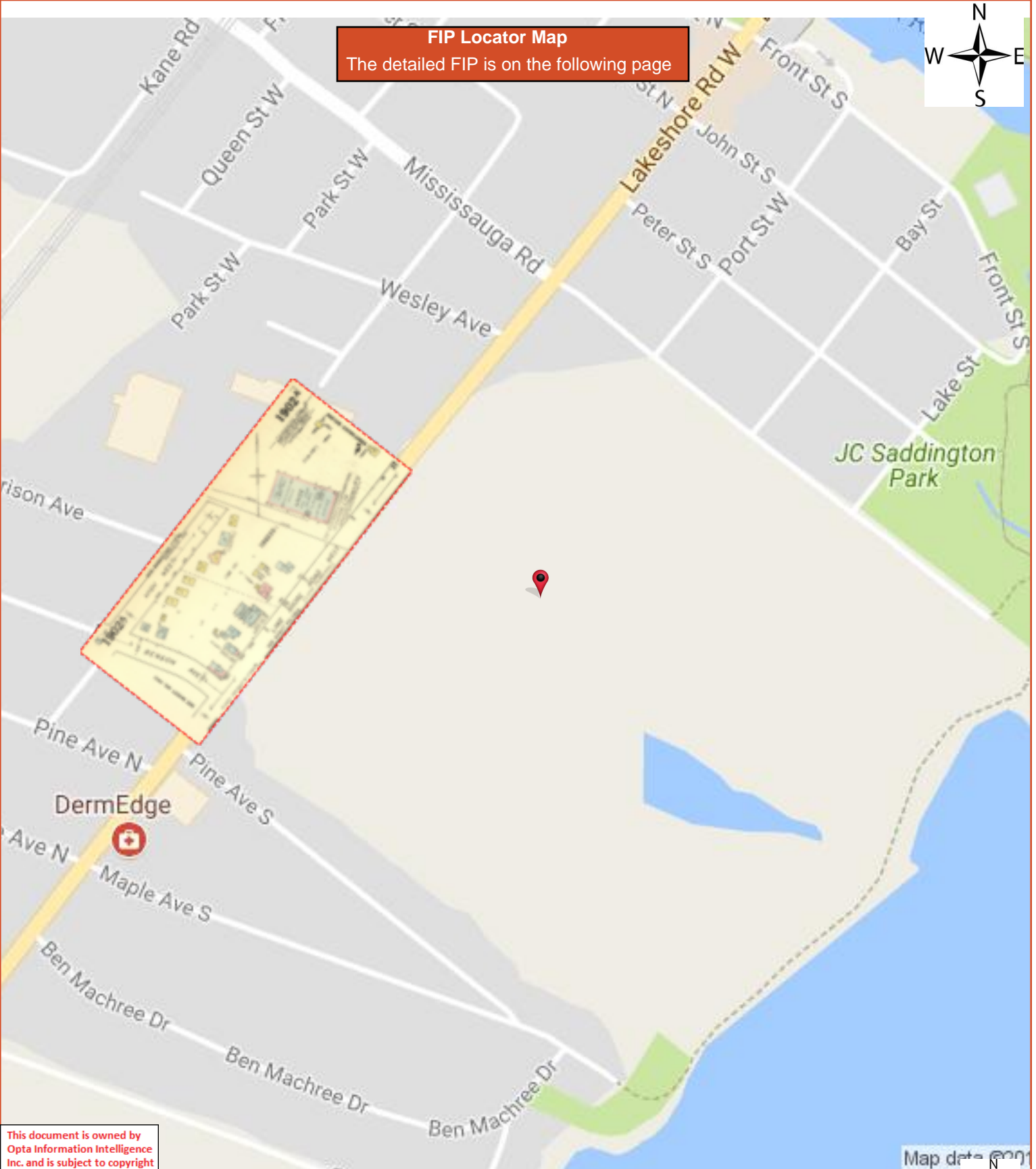


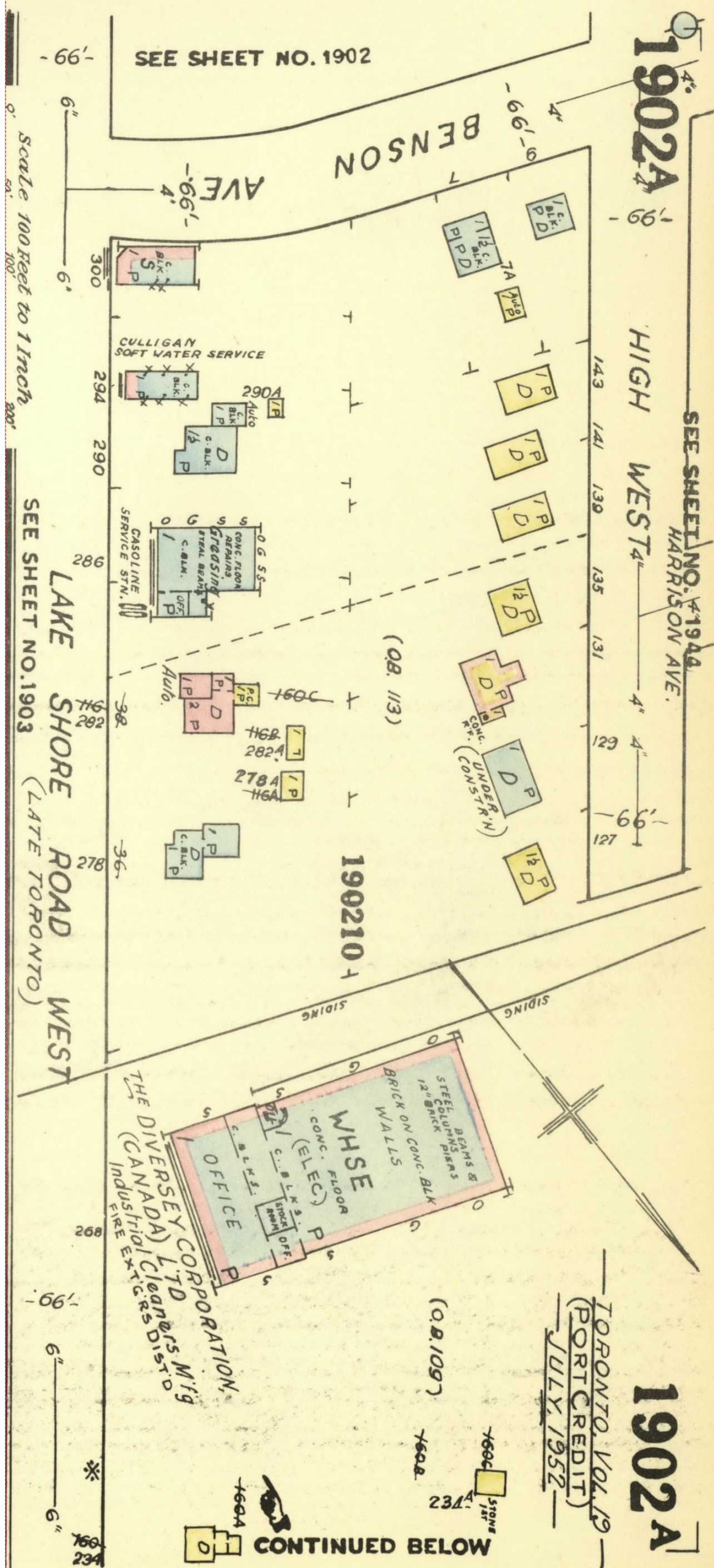


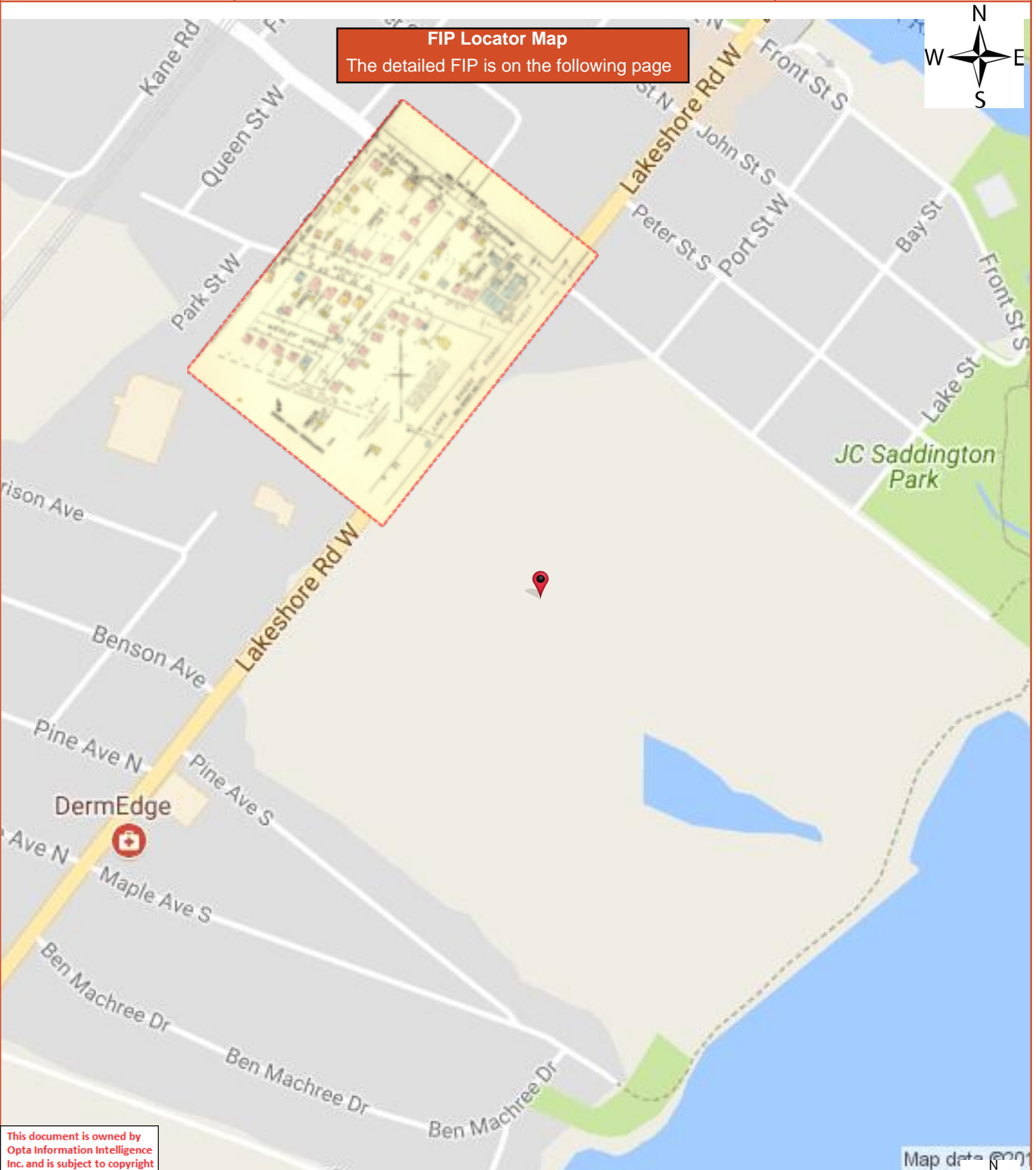


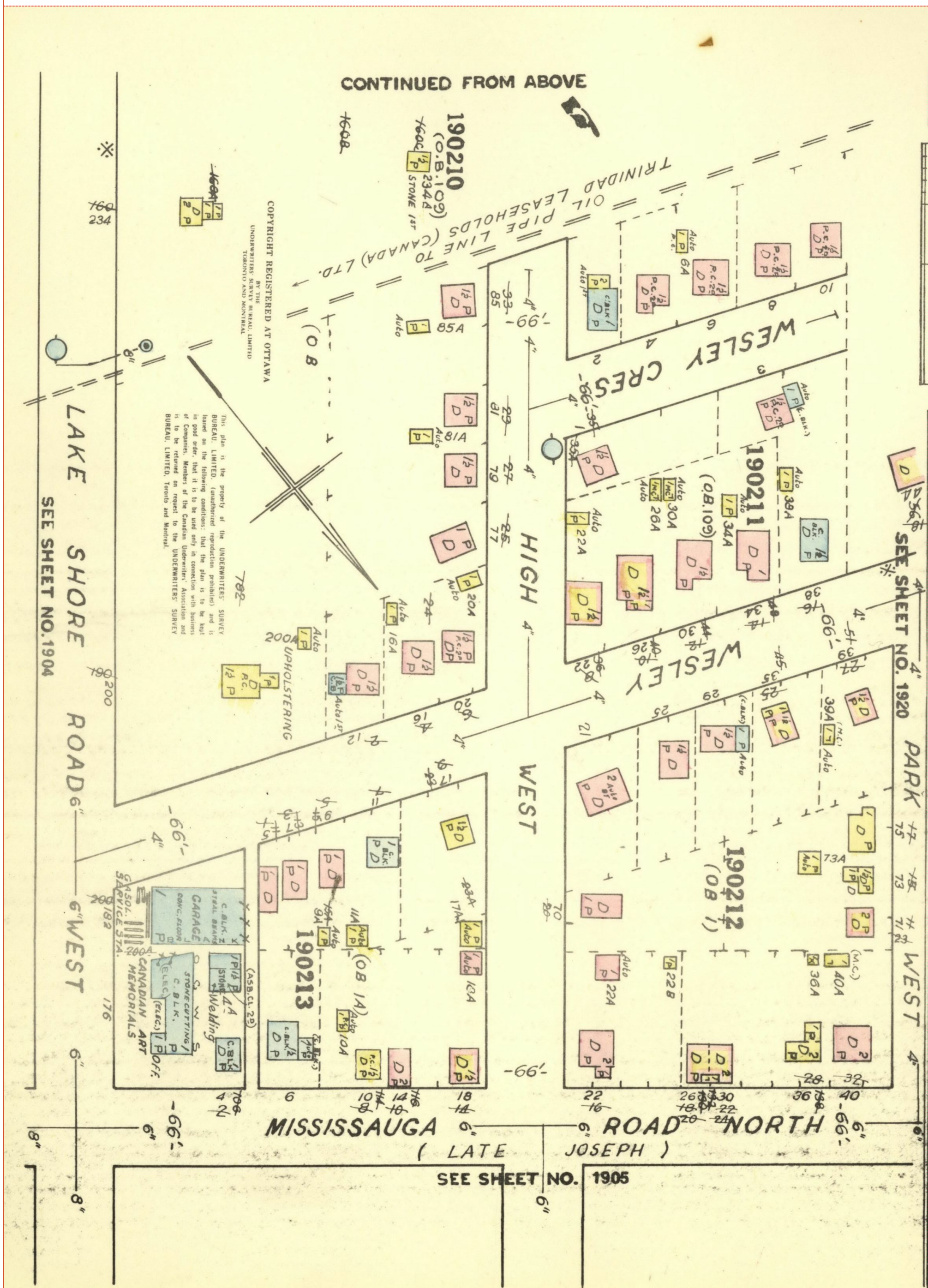
Requested by:
Breanne Graham
Date Completed: 06/21/2017 13:16:31











APPENDIX D-3

MOECC FOIPP AND TSSA RESPONSES



345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel. 416 734 3300
Fax 416 231 1626
Toll Free 1 877 682 8772

www.tssa.org

Tel: (416) 734-3570

Fax: (416) 734-3568

Email: publicinformationservices@tssa.org

23 May 2017

File No: FS 61381

Breanne Graham
Environmental Scientist
STANTEC CONSULTING LTD.
200 – 835 Paramount Drive
STONEY CREEK ON L8J 0B4

Dear Madam:

RE: 10 Mississauga Road South, Mississauga, Ontario – Your File No: 122120255

This is with reference to your request and fee of \$50.00 + HST, for information on the above location.

After a search of our files, TSSA has no record of any outstanding instructions, incident reports, fuel oil spills, or contamination records respecting the above-mentioned property.

We have no record of retail facilities or underground storage tanks licensed or registered at the above address.

TSSA cannot guarantee having information on sites that have not been licensed since 1987.

It should be noted that the Fuels Safety Division did not register private fuel underground/aboveground storage tanks prior to January of 1990 or furnace oil tanks prior to May 1, 2002. Also note that the Fuels Safety Division does not register waste oil tanks in apartments, office buildings, residences etc. or ABOVEGROUND gas or diesel tanks.

Yours truly,

Prem Lal
Coordinator Public Information Services





345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel: 416 734 3300
Fax: 416 231 1626
Toll Free 1 877 682 8772

www.tssa.org

Tel: (416) 734-3570

Fax: (416) 734-3568

Email: publicinformationsservices@tssa.org

23 May 2017

File No: FS 61382

Breanne Graham
Environmental Scientist
STANTEC CONSULTING LTD.
200 – 835Paramount Drive
STONEY CREEK ON L8J 0B4

Dear Madam:

RE: 70 Mississauga Road South, Mississauga, Ontario – Your File No: 122120255

This is with reference to your request and fee of \$50.00 + HST, for information on the above location.

After a search of our files, TSSA has no record of any outstanding instructions, incident reports, fuel oil spills, or contamination records respecting the above-mentioned property.

We have no record of retail facilities or underground storage tanks licensed or registered at the above address.

TSSA cannot guarantee having information on sites that have not been licensed since 1987.

It should be noted that the Fuels Safety Division did not register private fuel underground/aboveground storage tanks prior to January of 1990 or furnace oil tanks prior to May 1, 2002. Also note that the Fuels Safety Division does not register waste oil tanks in apartments, office buildings, residences etc. or ABOVEGROUND gas or diesel tanks.

Yours truly,


Prem Lal
Coordinator Public Information Services





Fax

Stantec Consulting Ltd.

200-835 Paramount Drive, Stoney Creek ON
L8J 0B4

To:	Sarah Quibell	From:	Breanne Graham
Company:	TSSA	Phone:	647 628 4019
Fax:	416-734-3568	Fax:	905 385 3534
Date:	August 9, 2017		
File:	122120255		2-page(s) total includes cover sheet Original will NOT follow by mail.

The content of this fax is confidential. If the reader is not the intended recipient or its agent, be advised that any dissemination, distribution or copying of the content of this fax is prohibited. If you have received this fax in error, please notify us immediately and return the original fax to us by mail at our expense. Thank you.

Reference: TSSA Request – 122120255

1. 181 Lakeshore Road West, Mississauga, ON

In addition, please find attached payment for 1 TSSA search request for the above-referenced property located in Mississauga/Port Credit. If you have any questions, please don't hesitate to contact the undersigned.

STANTEC CONSULTING LTD.

A handwritten signature in blue ink that reads "B. Graham".

Breanne Graham
Environmental Scientist
breanne.graham@stantec.com
Attachment: Credit Card Payment Form

**Ministry of the Environment
and Climate Change**

Freedom of Information and
Protection of Privacy Office

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

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

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

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



May 11, 2017

Breanne Graham
Stantec Consulting
835 Paramount Dr
Stoney Creek, ON L8J 0B4

Dear Breanne Graham:

RE: ***Freedom of Information and Protection of Privacy Act Request***
Our File # A-2017-03047, Your Reference 122120255

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 70 Mississauga Rd S, Mississauga.

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

To conduct a search through the files of the Environmental Approvals Branch requires an additional 8 hours. If you would like us to search for Environmental Compliance Approvals/Certificates of Approval at the Environmental Approvals Branch (EAB), please forward to me at the above address payment by money order or cheque (made payable to the "Minister of Finance (FOI)") or by credit card in the amount of \$240.00. Please note that there is no guarantee any records will be located responsive to your request. Credit card forms are available on the Ministry's website <http://www.ontario.ca/environment-and-energy/freedom-information-request-form-credit-card-form>. Please note, a request for records must usually be answered within 30 calendar days, however Section 27 allows for time extensions under certain circumstances. If you choose to have the search conducted at the Environmental Approvals Branch, the time for answering your request will be extended for an additional 30 days.



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

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

If you have any questions regarding this matter, please contact Kaitlynne Low at kaitlynne.low@ontario.ca.

Yours truly,


Janet Dadufalza
FOI Manager

**Ministry of the Environment
and Climate Change**

Freedom of Information and
Protection of Privacy Office

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

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12^e étage
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Toronto ON M4V 1M2
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Télec.: (416) 314-4285



May 11, 2017

Breanne Graham
Stantec Consulting
835 Paramount Dr
Stoney Creek, ON L8J 0B4

Dear Breanne Graham:

RE: ***Freedom of Information and Protection of Privacy Act Request***
Our File # A-2017-03049, Your Reference 122120255

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 305 Lakeshore Rd W, Mississauga.

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

To conduct a search through the files of the Environmental Approvals Branch requires an additional 8 hours. If you would like us to search for Environmental Compliance Approvals/Certificates of Approval at the Environmental Approvals Branch (EAB), please forward to me at the above address payment by money order or cheque (made payable to the "Minister of Finance (FOI)") or by credit card in the amount of \$240.00. Please note that there is no guarantee any records will be located responsive to your request. Credit card forms are available on the Ministry's website <http://www.ontario.ca/environment-and-energy/freedom-information-request-form-credit-card-form>. Please note, a request for records must usually be answered within 30 calendar days, however Section 27 allows for time extensions under certain circumstances. If you choose to have the search conducted at the Environmental Approvals Branch, the time for answering your request will be extended for an additional 30 days.

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

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

If you have any questions regarding this matter, please contact Kaitlynne Low at kaitlynne.low@ontario.ca.

Yours truly,



Janet Dadufalza
FOI Manager

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May 10, 2017

Breanne Graham
Stantec Consulting
835 Paramount Dr
Stoney Creek, ON L8J 0B4

Dear Breanne Graham:

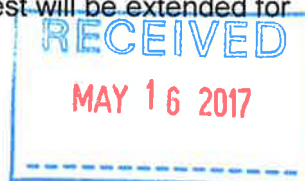
RE: ***Freedom of Information and Protection of Privacy Act Request***
Our File # A-2017-03053, Your Reference 122120255

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 9 Pine Ave S, Mississauga.

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

To conduct a search through the files of the Environmental Approvals Branch requires an additional 8 hours. If you would like us to search for Environmental Compliance Approvals/Certificates of Approval at the Environmental Approvals Branch (EAB), please forward to me at the above address payment by money order or cheque (made payable to the "Minister of Finance (FOI)") or by credit card in the amount of \$240.00. Please note that there is no guarantee any records will be located responsive to your request. Credit card forms are available on the Ministry's website <http://www.ontario.ca/environment-and-energy/freedom-information-request-form-credit-card-form>. Please note, a request for records must usually be answered within 30 calendar days, however Section 27 allows for time extensions under certain circumstances. If you choose to have the search conducted at the Environmental Approvals Branch, the time for answering your request will be extended for an additional 30 days.

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



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

If you have any questions regarding this matter, please contact Michael Kolaric at 416-327-3036

Yours truly,

A handwritten signature in dark ink, consisting of a large, stylized 'J' followed by a horizontal line extending to the right.

for Janet Dadufalza
FOI Manager

Attachments

**Ministry of the Environment
and Climate Change**

Freedom of Information and
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Téléc.: (416) 314-4285



May 10, 2017

Breanne Graham
Stantec Consulting
835 Paramount Dr
Stoney Creek, ON L8J 0B4

Dear Breanne Graham:

**RE: *Freedom of Information and Protection of Privacy Act* Request
Our File # A-2017-03102, Your Reference 122120255**

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 11 Pine Ave S, Mississauga.

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

To conduct a search through the files of the Environmental Approvals Branch requires an additional 8 hours. If you would like us to search for Environmental Compliance Approvals/Certificates of Approval at the Environmental Approvals Branch (EAB), please forward to me at the above address payment by money order or cheque (made payable to the "Minister of Finance (FOI)") or by credit card in the amount of \$240.00. Please note that there is no guarantee any records will be located responsive to your request. Credit card forms are available on the Ministry's website <http://www.ontario.ca/environment-and-energy/freedom-information-request-form-credit-card-form>. Please note, a request for records must usually be answered within 30 calendar days, however Section 27 allows for time extensions under certain circumstances. If you choose to have the search conducted at the Environmental Approvals Branch, the time for answering your request will be extended for an additional 30 days.

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

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

If you have any questions regarding this matter, please contact Michael Kolaric at 416-327-3036.

Yours truly,

A handwritten signature in cursive script, appearing to read "M. Wilson".

Janet Dadufalza
FOI Manager

For

Ministry of the Environment
and Climate Change

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Téléc.: (416) 314-4285

May 10, 2017

Breanne Graham
Stantec Consulting
835 Paramount Dr
Stoney Creek, ON L8J 0B4

Dear Breanne Graham:

RE: ***Freedom of Information and Protection of Privacy Act Request***
Our File # A-2017-03103, Your Reference 122120255

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 13 Pine Ave S, Mississauga.

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

To conduct a search through the files of the Environmental Approvals Branch requires an additional 8 hours. If you would like us to search for Environmental Compliance Approvals/Certificates of Approval at the Environmental Approvals Branch (EAB), please forward to me at the above address payment by money order or cheque (made payable to the "Minister of Finance (FOI)") or by credit card in the amount of \$240.00. Please note that there is no guarantee any records will be located responsive to your request. Credit card forms are available on the Ministry's website <http://www.ontario.ca/environment-and-energy/freedom-information-request-form-credit-card-form>. Please note, a request for records must usually be answered within 30 calendar days, however Section 27 allows for time extensions under certain circumstances. If you choose to have the search conducted at the Environmental Approvals Branch, the time for answering your request will be extended for an additional 30 days.

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

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

If you have any questions regarding this matter, please contact Michael Kolaric at 416-327-3036.

Yours truly,



For Janet Dadufalza
FOI Manager

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and Climate Change

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Télec.: (416) 314-4285

May 10, 2017

Breanne Graham
Stantec Consulting
835 Paramount Dr
Stoney Creek, ON L8J 0B4

Dear Breanne Graham:

RE: ***Freedom of Information and Protection of Privacy Act Request***
Our File # A-2017-03105, Your Reference 122120255

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 17 Pine Ave S, Mississauga.

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

To conduct a search through the files of the Environmental Approvals Branch requires an additional 8 hours. If you would like us to search for Environmental Compliance Approvals/Certificates of Approval at the Environmental Approvals Branch (EAB), please forward to me at the above address payment by money order or cheque (made payable to the "Minister of Finance (FOI)") or by credit card in the amount of \$240.00. Please note that there is no guarantee any records will be located responsive to your request. Credit card forms are available on the Ministry's website <http://www.ontario.ca/environment-and-energy/freedom-information-request-form-credit-card-form>. Please note, a request for records must usually be answered within 30 calendar days, however Section 27 allows for time extensions under certain circumstances. If you choose to have the search conducted at the Environmental Approvals Branch, the time for answering your request will be extended for an additional 30 days.

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

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

If you have any questions regarding this matter, please contact Michael Kolaric at 416-327-3036.

Yours truly,

A handwritten signature in blue ink, appearing to read "Janet Dadufalza".

Janet Dadufalza
FOI Manager

For

Ministry of the Environment
and Climate Change

Freedom of Information and
Protection of Privacy Office

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



May 10, 2017

Breanne Graham
Stantec Consulting
835 Paramount Dr
Stoney Creek, ON L8J 0B4

Dear Breanne Graham:

RE: ***Freedom of Information and Protection of Privacy Act Request***
Our File # A-2017-03106, Your Reference 122120255

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 19 Pine Ave S, Mississauga.

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

To conduct a search through the files of the Environmental Approvals Branch requires an additional 8 hours. If you would like us to search for Environmental Compliance Approvals/Certificates of Approval at the Environmental Approvals Branch (EAB), please forward to me at the above address payment by money order or cheque (made payable to the "Minister of Finance (FOI)") or by credit card in the amount of \$240.00. Please note that there is no guarantee any records will be located responsive to your request. Credit card forms are available on the Ministry's website <http://www.ontario.ca/environment-and-energy/freedom-information-request-form-credit-card-form>. Please note, a request for records must usually be answered within 30 calendar days, however Section 27 allows for time extensions under certain circumstances. If you choose to have the search conducted at the Environmental Approvals Branch, the time for answering your request will be extended for an additional 30 days.

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

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

If you have any questions regarding this matter, please contact Michael Kolaric at 416-327-3036.

Yours truly,



For Janet Dadufalza
FOI Manager

Ministry of the Environment
and Climate Change

Freedom of Information and
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Téléc.: (416) 314-4285



May 10, 2017

Breanne Graham
Stantec Consulting
835 Paramount Dr
Stoney Creek, ON L8J 0B4

Dear Breanne Graham:

RE: ***Freedom of Information and Protection of Privacy Act Request***
Our File # A-2017-03107, Your Reference 122120255

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 21 Pine Ave S, Mississauga.

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

To conduct a search through the files of the Environmental Approvals Branch requires an additional 8 hours. If you would like us to search for Environmental Compliance Approvals/Certificates of Approval at the Environmental Approvals Branch (EAB), please forward to me at the above address payment by money order or cheque (made payable to the "Minister of Finance (FOI)") or by credit card in the amount of \$240.00. Please note that there is no guarantee any records will be located responsive to your request. Credit card forms are available on the Ministry's website <http://www.ontario.ca/environment-and-energy/freedom-information-request-form-credit-card-form>. Please note, a request for records must usually be answered within 30 calendar days, however Section 27 allows for time extensions under certain circumstances. If you choose to have the search conducted at the Environmental Approvals Branch, the time for answering your request will be extended for an additional 30 days.

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

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

If you have any questions regarding this matter, please contact Michael Kolaric at 416-327-3036.

Yours truly,

A handwritten signature in blue ink, appearing to read "Mr. Wilson", is written over the printed name Janet Dadufalza.

For Janet Dadufalza
FOI Manager

**Ministry of the Environment
and Climate Change**

Freedom of Information and
Protection of Privacy Office

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May 10, 2017

Breanne Graham
Stantec Consulting
835 Paramount Dr
Stoney Creek, ON L8J 0B4

Dear Breanne Graham:

RE: ***Freedom of Information and Protection of Privacy Act Request***
Our File # A-2017-03108, Your Reference 122120255

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 21A Pine Ave S, Mississauga (previously 21 Pine Ave S, Mississauga).

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

To conduct a search through the files of the Environmental Approvals Branch requires an additional 8 hours. If you would like us to search for Environmental Compliance Approvals/Certificates of Approval at the Environmental Approvals Branch (EAB), please forward to me at the above address payment by money order or cheque (made payable to the "Minister of Finance (FOI)") or by credit card in the amount of \$240.00. Please note that there is no guarantee any records will be located responsive to your request. Credit card forms are available on the Ministry's website <http://www.ontario.ca/environment-and-energy/freedom-information-request-form-credit-card-form>. Please note, a request for records must usually be answered within 30 calendar days, however Section 27 allows for time extensions under certain circumstances. If you choose to have the search conducted at the Environmental Approvals Branch, the time for answering your request will be extended for an additional 30 days.

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

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

If you have any questions regarding this matter, please contact Michael Kolaric at 416-327-3036.

Yours truly,

A handwritten signature in blue ink that reads "Mr. Wilson". The signature is written in a cursive style.

For Janet Dadufalza
FOI Manager

Ministry of the Environment
and Climate Change

Freedom of Information and
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May 10, 2017

Breanne Graham
Stantec Consulting
835 Paramount Dr
Stoney Creek, ON L8J 0B4

Dear Breanne Graham:

RE: ***Freedom of Information and Protection of Privacy Act Request***
Our File # A-2017-03137, Your Reference 122120255

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 23 Pine Ave S, Mississauga.

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

To conduct a search through the files of the Environmental Approvals Branch requires an additional 8 hours. If you would like us to search for Environmental Compliance Approvals/Certificates of Approval at the Environmental Approvals Branch (EAB), please forward to me at the above address payment by money order or cheque (made payable to the "Minister of Finance (FOI)") or by credit card in the amount of \$240.00. Please note that there is no guarantee any records will be located responsive to your request. Credit card forms are available on the Ministry's website <http://www.ontario.ca/environment-and-energy/freedom-information-request-form-credit-card-form>. Please note, a request for records must usually be answered within 30 calendar days, however Section 27 allows for time extensions under certain circumstances. If you choose to have the search conducted at the Environmental Approvals Branch, the time for answering your request will be extended for an additional 30 days.

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

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

If you have any questions regarding this matter, please contact Michael Kolaric at 416-327-3036.

Yours truly,

A handwritten signature in blue ink, appearing to read "Mr. Wilson".

Fw Janet Dadufalza
FOI Manager

Ministry of the Environment
and Climate Change

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May 10, 2017

Breanne Graham
Stantec Consulting
835 Paramount Dr
Stoney Creek, ON L8J 0B4

Dear Breanne Graham:

RE: ***Freedom of Information and Protection of Privacy Act Request***
Our File # A-2017-03138, Your Reference 122120255

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 25 Pine Ave S, Mississauga.

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

To conduct a search through the files of the Environmental Approvals Branch requires an additional 8 hours. If you would like us to search for Environmental Compliance Approvals/Certificates of Approval at the Environmental Approvals Branch (EAB), please forward to me at the above address payment by money order or cheque (made payable to the "Minister of Finance (FOI)") or by credit card in the amount of \$240.00. Please note that there is no guarantee any records will be located responsive to your request. Credit card forms are available on the Ministry's website <http://www.ontario.ca/environment-and-energy/freedom-information-request-form-credit-card-form>. Please note, a request for records must usually be answered within 30 calendar days, however Section 27 allows for time extensions under certain circumstances. If you choose to have the search conducted at the Environmental Approvals Branch, the time for answering your request will be extended for an additional 30 days.

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

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

If you have any questions regarding this matter, please contact Michael Kolaric at 416-327-3036.

Yours truly,

A handwritten signature in blue ink, appearing to read "J. Dadufalza".

For Janet Dadufalza
FOI Manager

Ministry of the Environment
and Climate Change

Freedom of Information and
Protection of Privacy Office

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

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Télééc.: (416) 314-4285



May 10, 2017

Breanne Graham
Stantec Consulting
835 Paramount Dr
Stoney Creek, ON L8J 0B4

Dear Breanne Graham:

RE: ***Freedom of Information and Protection of Privacy Act Request***
Our File # A-2017-03139, Your Reference 122120255

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 27 Pine Ave S, Mississauga.

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

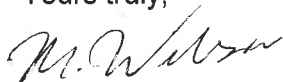
To conduct a search through the files of the Environmental Approvals Branch requires an additional 8 hours. If you would like us to search for Environmental Compliance Approvals/Certificates of Approval at the Environmental Approvals Branch (EAB), please forward to me at the above address payment by money order or cheque (made payable to the "Minister of Finance (FOI)") or by credit card in the amount of \$240.00. Please note that there is no guarantee any records will be located responsive to your request. Credit card forms are available on the Ministry's website <http://www.ontario.ca/environment-and-energy/freedom-information-request-form-credit-card-form>. Please note, a request for records must usually be answered within 30 calendar days, however Section 27 allows for time extensions under certain circumstances. If you choose to have the search conducted at the Environmental Approvals Branch, the time for answering your request will be extended for an additional 30 days.

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

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

If you have any questions regarding this matter, please contact Michael Kolaric at 416-327-3036.

Yours truly,

A handwritten signature in black ink, appearing to read "M. Dadufalza", written in a cursive style.

For Janet Dadufalza
FOI Manager

Ministry of the Environment
and Climate Change

Freedom of Information and
Protection of Privacy Office

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Télééc.: (416) 314-4285



May 10, 2017

Breanne Graham
Stantec Consulting
835 Paramount Dr
Stoney Creek, ON L8J 0B4

Dear Breanne Graham:

RE: ***Freedom of Information and Protection of Privacy Act Request***
Our File # A-2017-03140, Your Reference 122120255

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 29 Pine Ave S, Mississauga.

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

To conduct a search through the files of the Environmental Approvals Branch requires an additional 8 hours. If you would like us to search for Environmental Compliance Approvals/Certificates of Approval at the Environmental Approvals Branch (EAB), please forward to me at the above address payment by money order or cheque (made payable to the "Minister of Finance (FOI)") or by credit card in the amount of \$240.00. Please note that there is no guarantee any records will be located responsive to your request. Credit card forms are available on the Ministry's website <http://www.ontario.ca/environment-and-energy/freedom-information-request-form-credit-card-form>. Please note, a request for records must usually be answered within 30 calendar days, however Section 27 allows for time extensions under certain circumstances. If you choose to have the search conducted at the Environmental Approvals Branch, the time for answering your request will be extended for an additional 30 days.

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

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

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

If you have any questions regarding this matter, please contact Michael Kolaric at 416-327-3036.

Yours truly,

A handwritten signature in blue ink, appearing to read "M. Dadufalza".

Fw Janet Dadufalza
FOI Manager

Ministry of the Environment
and Climate Change

Freedom of Information and
Protection of Privacy Office

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Télééc.: (416) 314-4285



May 10, 2017

Breanne Graham
Stantec Consulting
835 Paramount Dr
Stoney Creek, ON L8J 0B4

Dear Breanne Graham:

RE: ***Freedom of Information and Protection of Privacy Act Request***
Our File # A-2017-03141, Your Reference 122120255

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 31 Pine Ave S, Mississauga.

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

To conduct a search through the files of the Environmental Approvals Branch requires an additional 8 hours. If you would like us to search for Environmental Compliance Approvals/Certificates of Approval at the Environmental Approvals Branch (EAB), please forward to me at the above address payment by money order or cheque (made payable to the "Minister of Finance (FOI)") or by credit card in the amount of \$240.00. Please note that there is no guarantee any records will be located responsive to your request. Credit card forms are available on the Ministry's website <http://www.ontario.ca/environment-and-energy/freedom-information-request-form-credit-card-form>. Please note, a request for records must usually be answered within 30 calendar days, however Section 27 allows for time extensions under certain circumstances. If you choose to have the search conducted at the Environmental Approvals Branch, the time for answering your request will be extended for an additional 30 days.

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

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

If you have any questions regarding this matter, please contact Michael Kolaric at 416-327-3036.

Yours truly,

A handwritten signature in blue ink, appearing to read "Janet Dadufalza".

For Janet Dadufalza
FOI Manager

**Ministry of the Environment
and Climate Change**

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Téléc.: (416) 314-4285



May 10, 2017

Breanne Graham
Stantec Consulting
835 Paramount Dr
Stoney Creek, ON L8J 0B4

Dear Breanne Graham:

RE: ***Freedom of Information and Protection of Privacy Act Request***
Our File # A-2017-03142, Your Reference 122120255

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 33 Pine Ave S, Mississauga.

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

To conduct a search through the files of the Environmental Approvals Branch requires an additional 8 hours. If you would like us to search for Environmental Compliance Approvals/Certificates of Approval at the Environmental Approvals Branch (EAB), please forward to me at the above address payment by money order or cheque (made payable to the "Minister of Finance (FOI)") or by credit card in the amount of \$240.00. Please note that there is no guarantee any records will be located responsive to your request. Credit card forms are available on the Ministry's website <http://www.ontario.ca/environment-and-energy/freedom-information-request-form-credit-card-form>. Please note, a request for records must usually be answered within 30 calendar days, however Section 27 allows for time extensions under certain circumstances. If you choose to have the search conducted at the Environmental Approvals Branch, the time for answering your request will be extended for an additional 30 days.

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

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

If you have any questions regarding this matter, please contact Michael Kolaric at 416-327-3036.

Yours truly,



Fee
Janet Dadufalza
FOI Manager

Ministry of the Environment
and Climate Change

Freedom of Information and
Protection of Privacy Office

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Toronto ON M4V 1M2
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May 10, 2017

Breanne Graham
Stantec Consulting
835 Paramount Dr
Stoney Creek, ON L8J 0B4

Dear Breanne Graham:

RE: ***Freedom of Information and Protection of Privacy Act Request***
Our File # A-2017-03147, Your Reference 122120255

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 43 Pine Ave S, Mississauga.

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

To conduct a search through the files of the Environmental Approvals Branch requires an additional 8 hours. If you would like us to search for Environmental Compliance Approvals/Certificates of Approval at the Environmental Approvals Branch (EAB), please forward to me at the above address payment by money order or cheque (made payable to the "Minister of Finance (FOI)") or by credit card in the amount of \$240.00. Please note that there is no guarantee any records will be located responsive to your request. Credit card forms are available on the Ministry's website <http://www.ontario.ca/environment-and-energy/freedom-information-request-form-credit-card-form>. Please note, a request for records must usually be answered within 30 calendar days, however Section 27 allows for time extensions under certain circumstances. If you choose to have the search conducted at the Environmental Approvals Branch, the time for answering your request will be extended for an additional 30 days.

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

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

If you have any questions regarding this matter, please contact Michael Kolaric at 416-327-3036.

Yours truly,

A handwritten signature in cursive script, appearing to read "Mr. Wilson".

 Janet Dadufalza
FOI Manager

Ministry of the Environment
and Climate Change

Freedom of Information and
Protection of Privacy Office

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



May 10, 2017

Breanne Graham
Stantec Consulting
835 Paramount Dr
Stoney Creek, ON L8J 0B4

Dear Breanne Graham:

RE: ***Freedom of Information and Protection of Privacy Act Request***
Our File # A-2017-03148, Your Reference 122120255

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 45 Pine Ave S, Mississauga.

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

To conduct a search through the files of the Environmental Approvals Branch requires an additional 8 hours. If you would like us to search for Environmental Compliance Approvals/Certificates of Approval at the Environmental Approvals Branch (EAB), please forward to me at the above address payment by money order or cheque (made payable to the "Minister of Finance (FOI)") or by credit card in the amount of \$240.00. Please note that there is no guarantee any records will be located responsive to your request. Credit card forms are available on the Ministry's website <http://www.ontario.ca/environment-and-energy/freedom-information-request-form-credit-card-form>. Please note, a request for records must usually be answered within 30 calendar days, however Section 27 allows for time extensions under certain circumstances. If you choose to have the search conducted at the Environmental Approvals Branch, the time for answering your request will be extended for an additional 30 days.

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

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

If you have any questions regarding this matter, please contact Michael Kolaric at 416-327-3036.

Yours truly,

A handwritten signature in cursive script, appearing to read "M. Dadufalza".

Fce Janet Dadufalza
FOI Manager

**Ministry of the Environment
and Climate Change**

Freedom of Information and
Protection of Privacy Office

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May 10, 2017

Breanne Graham
Stantec Consulting
835 Paramount Dr
Stoney Creek, ON L8J 0B4

Dear Breanne Graham:

RE: ***Freedom of Information and Protection of Privacy Act Request***
Our File # A-2017-03149, Your Reference 122120255

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 47 Pine Ave S, Mississauga.

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

To conduct a search through the files of the Environmental Approvals Branch requires an additional 8 hours. If you would like us to search for Environmental Compliance Approvals/Certificates of Approval at the Environmental Approvals Branch (EAB), please forward to me at the above address payment by money order or cheque (made payable to the "Minister of Finance (FOI)") or by credit card in the amount of \$240.00. Please note that there is no guarantee any records will be located responsive to your request. Credit card forms are available on the Ministry's website <http://www.ontario.ca/environment-and-energy/freedom-information-request-form-credit-card-form>. Please note, a request for records must usually be answered within 30 calendar days, however Section 27 allows for time extensions under certain circumstances. If you choose to have the search conducted at the Environmental Approvals Branch, the time for answering your request will be extended for an additional 30 days.

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

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

If you have any questions regarding this matter, please contact Michael Kolaric at 416-327-3036.

Yours truly,

A handwritten signature in cursive script, appearing to read "M. Dadufalza".

For Janet Dadufalza
FOI Manager

**Ministry of the Environment
and Climate Change**

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May 10, 2017

Breanne Graham
Stantec Consulting
835 Paramount Dr
Stoney Creek, ON L8J 0B4

Dear Breanne Graham:

RE: ***Freedom of Information and Protection of Privacy Act Request***
Our File # A-2017-03151, Your Reference 122120255

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 51 Pine Ave S, Mississauga.

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

To conduct a search through the files of the Environmental Approvals Branch requires an additional 8 hours. If you would like us to search for Environmental Compliance Approvals/Certificates of Approval at the Environmental Approvals Branch (EAB), please forward to me at the above address payment by money order or cheque (made payable to the "Minister of Finance (FOI)") or by credit card in the amount of \$240.00. Please note that there is no guarantee any records will be located responsive to your request. Credit card forms are available on the Ministry's website <http://www.ontario.ca/environment-and-energy/freedom-information-request-form-credit-card-form>. Please note, a request for records must usually be answered within 30 calendar days, however Section 27 allows for time extensions under certain circumstances. If you choose to have the search conducted at the Environmental Approvals Branch, the time for answering your request will be extended for an additional 30 days.

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

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

If you have any questions regarding this matter, please contact Michael Kolaric at 416-327-3036.

Yours truly,



Janet Janet Dadufalza
FOI Manager

**Ministry of the Environment
and Climate Change**

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May 10, 2017

Breanne Graham
Stantec Consulting
835 Paramount Dr
Stoney Creek, ON L8J 0B4

Dear Breanne Graham:

RE: ***Freedom of Information and Protection of Privacy Act Request***
Our File # A-2017-03152, Your Reference 122120255

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 53 Pine Ave S, Mississauga.

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

To conduct a search through the files of the Environmental Approvals Branch requires an additional 8 hours. If you would like us to search for Environmental Compliance Approvals/Certificates of Approval at the Environmental Approvals Branch (EAB), please forward to me at the above address payment by money order or cheque (made payable to the "Minister of Finance (FOI)") or by credit card in the amount of \$240.00. Please note that there is no guarantee any records will be located responsive to your request. Credit card forms are available on the Ministry's website <http://www.ontario.ca/environment-and-energy/freedom-information-request-form-credit-card-form>. Please note, a request for records must usually be answered within 30 calendar days, however Section 27 allows for time extensions under certain circumstances. If you choose to have the search conducted at the Environmental Approvals Branch, the time for answering your request will be extended for an additional 30 days.

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

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If you have any questions regarding this matter, please contact Michael Kolaric at 416-327-3036.

Yours truly,



For Janet Dadufalza
FOI Manager

**Ministry of the Environment
and Climate Change**

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Toronto ON M4V 1M2
Tél. : (416) 314-4075
Téléc.: (416) 314-4285



May 11, 2017

Breanne Graham
Stantec Consulting
835 Paramount Dr
Stoney Creek, ON L8J 0B4

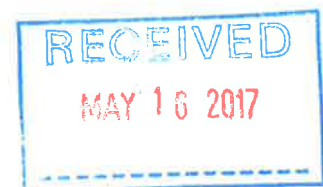
Dear Breanne Graham:

RE: ***Freedom of Information and Protection of Privacy Act Request***
Our File # A-2017-03153, Your Reference 122120255

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 59 Maple Ave S, Mississauga.

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

To conduct a search through the files of the Environmental Approvals Branch requires an additional 8 hours. If you would like us to search for Environmental Compliance Approvals/Certificates of Approval at the Environmental Approvals Branch (EAB), please forward to me at the above address payment by money order or cheque (made payable to the "Minister of Finance (FOI)") or by credit card in the amount of \$240.00. Please note that there is no guarantee any records will be located responsive to your request. Credit card forms are available on the Ministry's website <http://www.ontario.ca/environment-and-energy/freedom-information-request-form-credit-card-form>. Please note, a request for records must usually be answered within 30 calendar days, however Section 27 allows for time extensions under certain circumstances. If you choose to have the search conducted at the Environmental Approvals Branch, the time for answering your request will be extended for an additional 30 days.



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

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

If you have any questions regarding this matter, please contact Kaitlynne Low at kaitlynne.low@ontario.ca.

Yours truly,

A handwritten signature in dark ink, appearing to read 'J. Dadufalza', is positioned above the printed name.

Janet Dadufalza
FOI Manager

**Ministry of the Environment
and Climate Change**

Freedom of Information and
Protection of Privacy Office

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Télec.: (416) 314-4285



May 11, 2017

Breanne Graham
Stantec Consulting
835 Paramount Dr
Stoney Creek, ON L8J 0B4

Dear Breanne Graham:

RE: ***Freedom of Information and Protection of Privacy Act Request***
Our File # A-2017-03154, Your Reference 122120255

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 61 Maple Ave S, Mississauga.

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

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If you have any questions regarding this matter, please contact Kaitlynne Low at kaitlynne.low@ontario.ca.

Yours truly,

A handwritten signature in dark ink, appearing to be 'JD', is written over a circular stamp.

Janet Dadufalza
FOI Manager

**Ministry of the Environment
and Climate Change**

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May 11, 2017

Breanne Graham
Stantec Consulting
835 Paramount Dr
Stoney Creek, ON L8J 0B4

Dear Breanne Graham:

RE: ***Freedom of Information and Protection of Privacy Act Request***
Our File # A-2017-03155, Your Reference 122120255

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 63 Maple Ave S, Mississauga.

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

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If you have any questions regarding this matter, please contact Kaitlynne Low at kaitlynne.low@ontario.ca.

Yours truly,



Janet Dadufalza
FOI Manager

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May 11, 2017

Breanne Graham
Stantec Consulting
835 Paramount Dr
Stoney Creek, ON L8J 0B4

Dear Breanne Graham:

**RE: *Freedom of Information and Protection of Privacy Act Request*
Our File # A-2017-03159, Your Reference 122120255**

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 75 Maple Ave S, Mississauga.

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

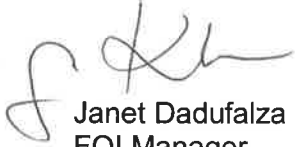
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You may request a review of my decision by contacting the Information and Privacy Commissioner/Ontario, 2 Bloor Street East, Suite 1400, Toronto, ON M4W 1A8 (800-387-0073 or 416-326-3333). Please note that there is a \$25.00 fee and you only have 30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

If you have any questions regarding this matter, please contact Kaitlynne Low at kaitlynne.low@ontario.ca.

Yours truly,

A handwritten signature in dark ink, appearing to read 'Janet Dadufalza', is written over the printed name.

Janet Dadufalza
FOI Manager

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and Climate Change**

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Téléc.: (416) 314-4285



May 15, 2017

Breanne Graham
Stantec Consulting
835 Paramount Dr
Stoney Creek, ON L8J 0B4

Dear Breanne Graham:

RE: ***Freedom of Information and Protection of Privacy Act Request***
Our File # A-2017-03050, Your Reference 122120255

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 3 Pine Ave S, Mississauga.

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

To conduct a search through the files of the Environmental Approvals Branch requires an additional 8 hours. If you would like us to search for Environmental Compliance Approvals/Certificates of Approval at the Environmental Approvals Branch (EAB), please forward to me at the above address payment by money order or cheque (made payable to the "Minister of Finance (FOI)") or by credit card in the amount of \$240.00. Please note that there is no guarantee any records will be located responsive to your request. Credit card forms are available on the Ministry's website <http://www.ontario.ca/environment-and-energy/freedom-information-request-form-credit-card-form>. Please note, a request for records must usually be answered within 30 calendar days, however Section 27 allows for time extensions under certain circumstances. If you choose to have the search conducted at the Environmental Approvals Branch, the time for answering your request will be extended for an additional 30 days.

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

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

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

If you have any questions regarding this matter, please contact Kaitlynn Low at kaitlynn.low@ontario.ca.

Yours truly,



 Janet Dadufalza
FOI Manager



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and Climate Change**

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Télec.: (416) 314-4285



May 15, 2017

Breanne Graham
Stantec Consulting
835 Paramount Dr
Stoney Creek, ON L8J 0B4

Dear Breanne Graham:

RE: ***Freedom of Information and Protection of Privacy Act Request***
Our File # A-2017-03051, Your Reference 122120255

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 5 Pine Ave S, Mississauga.

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

To conduct a search through the files of the Environmental Approvals Branch requires an additional 8 hours. If you would like us to search for Environmental Compliance Approvals/Certificates of Approval at the Environmental Approvals Branch (EAB), please forward to me at the above address payment by money order or cheque (made payable to the "Minister of Finance (FOI)") or by credit card in the amount of \$240.00. Please note that there is no guarantee any records will be located responsive to your request. Credit card forms are available on the Ministry's website <http://www.ontario.ca/environment-and-energy/freedom-information-request-form-credit-card-form>. Please note, a request for records must usually be answered within 30 calendar days, however Section 27 allows for time extensions under certain circumstances. If you choose to have the search conducted at the Environmental Approvals Branch, the time for answering your request will be extended for an additional 30 days.

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

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

If you have any questions regarding this matter, please contact Kaitlynne Low at kaitlynne.low@ontario.ca.

Yours truly,


Janet Dadufalza
FOI Manager

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and Climate Change**

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May 15, 2017

Breanne Graham
Stantec Consulting
835 Paramount Dr
Stoney Creek, ON L8J 0B4

Dear Breanne Graham:

RE: ***Freedom of Information and Protection of Privacy Act Request***
Our File # A-2017-03104, Your Reference 122120255

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 15 Pine Ave S, Mississauga.

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

To conduct a search through the files of the Environmental Approvals Branch requires an additional 8 hours. If you would like us to search for Environmental Compliance Approvals/Certificates of Approval at the Environmental Approvals Branch (EAB), please forward to me at the above address payment by money order or cheque (made payable to the "Minister of Finance (FOI)") or by credit card in the amount of \$240.00. Please note that there is no guarantee any records will be located responsive to your request. Credit card forms are available on the Ministry's website <http://www.ontario.ca/environment-and-energy/freedom-information-request-form-credit-card-form>. Please note, a request for records must usually be answered within 30 calendar days, however Section 27 allows for time extensions under certain circumstances. If you choose to have the search conducted at the Environmental Approvals Branch, the time for answering your request will be extended for an additional 30 days.

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

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

If you have any questions regarding this matter, please contact Kaitlynne Low at kaitlynne.low@ontario.ca.

Yours truly,


Janet Dadufalza
FOI Manager

Ministry of the Environment
and Climate Change

Freedom of Information and
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Téléc.: (416) 314-4285



May 15, 2017

Breanne Graham
Stantec Consulting
835 Paramount Dr
Stoney Creek, ON L8J 0B4

Dear Breanne Graham:

RE: ***Freedom of Information and Protection of Privacy Act Request***
Our File # A-2017-03143, Your Reference 122120255

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 35 Pine Ave S, Mississauga.

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

To conduct a search through the files of the Environmental Approvals Branch requires an additional 8 hours. If you would like us to search for Environmental Compliance Approvals/Certificates of Approval at the Environmental Approvals Branch (EAB), please forward to me at the above address payment by money order or cheque (made payable to the "Minister of Finance (FOI)") or by credit card in the amount of \$240.00. Please note that there is no guarantee any records will be located responsive to your request. Credit card forms are available on the Ministry's website <http://www.ontario.ca/environment-and-energy/freedom-information-request-form-credit-card-form>. Please note, a request for records must usually be answered within 30 calendar days, however Section 27 allows for time extensions under certain circumstances. If you choose to have the search conducted at the Environmental Approvals Branch, the time for answering your request will be extended for an additional 30 days.

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If you have any questions regarding this matter, please contact Kaitlynne Low at kaitlynne.low@ontario.ca.

Yours truly,


Janet Dadufalza
FOI Manager

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May 15, 2017

Breanne Graham
Stantec Consulting
835 Paramount Dr
Stoney Creek, ON L8J 0B4

Dear Breanne Graham:

RE: ***Freedom of Information and Protection of Privacy Act Request***
Our File # A-2017-03144, Your Reference 122120255

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 37 Pine Ave S, Mississauga.

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

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If you have any questions regarding this matter, please contact Kaitlynn Low at kaitlynn.low@ontario.ca.

Yours truly,

A handwritten signature in dark ink, appearing to read 'J. Dadufalza', written in a cursive style.

Janet Dadufalza
FOI Manager

**Ministry of the Environment
and Climate Change**

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Toronto ON M4V 1M2
Tel: (416) 314-4075
Fax: (416) 314-4285

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

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

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



May 15, 2017

Breanne Graham
Stantec Consulting
835 Paramount Dr
Stoney Creek, ON L8J 0B4

Dear Breanne Graham:

**RE: *Freedom of Information and Protection of Privacy Act Request*
Our File # A-2017-03145, Your Reference 122120255**

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 39 Pine Ave S, Mississauga.

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

To conduct a search through the files of the Environmental Approvals Branch requires an additional 8 hours. If you would like us to search for Environmental Compliance Approvals/Certificates of Approval at the Environmental Approvals Branch (EAB), please forward to me at the above address payment by money order or cheque (made payable to the "Minister of Finance (FOI)") or by credit card in the amount of \$240.00. Please note that there is no guarantee any records will be located responsive to your request. Credit card forms are available on the Ministry's website <http://www.ontario.ca/environment-and-energy/freedom-information-request-form-credit-card-form>. Please note, a request for records must usually be answered within 30 calendar days, however Section 27 allows for time extensions under certain circumstances. If you choose to have the search conducted at the Environmental Approvals Branch, the time for answering your request will be extended for an additional 30 days.

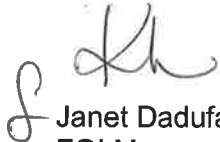
The District Office has advised that there may be inactive records in the Records Centre, Mississauga. To retrieve these files there is a charge of \$60.00 with no guarantee that records will be located responsive to your request. If you would like us to retrieve these files, please forward to me payment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

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

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

If you have any questions regarding this matter, please contact Kaitlynn Low at kaitlynn.low@ontario.ca.

Yours truly,

A handwritten signature in dark ink, appearing to read 'Janet Dadufalza', written in a cursive style.

Janet Dadufalza
FOI Manager

**Ministry of the Environment
and Climate Change**

Freedom of Information and
Protection of Privacy Office

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Téléc.: (416) 314-4285



May 15, 2017

Breanne Graham
Stantec Consulting
835 Paramount Dr
Stoney Creek, ON L8J 0B4

Dear Breanne Graham:

RE: ***Freedom of Information and Protection of Privacy Act Request***
Our File # A-2017-03146, Your Reference 122120255

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 41 Pine Ave S, Mississauga.

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

To conduct a search through the files of the Environmental Approvals Branch requires an additional 8 hours. If you would like us to search for Environmental Compliance Approvals/Certificates of Approval at the Environmental Approvals Branch (EAB), please forward to me at the above address payment by money order or cheque (made payable to the "Minister of Finance (FOI)") or by credit card in the amount of \$240.00. Please note that there is no guarantee any records will be located responsive to your request. Credit card forms are available on the Ministry's website <http://www.ontario.ca/environment-and-energy/freedom-information-request-form-credit-card-form>. Please note, a request for records must usually be answered within 30 calendar days, however Section 27 allows for time extensions under certain circumstances. If you choose to have the search conducted at the Environmental Approvals Branch, the time for answering your request will be extended for an additional 30 days.

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

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

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

If you have any questions regarding this matter, please contact Kaitlynne Low at kaitlynne.low@ontario.ca.

Yours truly,

A handwritten signature in dark ink, appearing to read 'J. Dadufalza', is positioned above the printed name.

Janet Dadufalza
FOI Manager

**Ministry of the Environment
and Climate Change**

Freedom of Information and
Protection of Privacy Office

12th Floor
40 St. Clair Avenue West
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Téléc.: (416) 314-4285



May 15, 2017

Breanne Graham
Stantec Consulting
835 Paramount Dr
Stoney Creek, ON L8J 0B4

Dear Breanne Graham:

RE: ***Freedom of Information and Protection of Privacy Act Request***
Our File # A-2017-03156, Your Reference 122120255

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 67 Maple Ave S, Mississauga.

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

To conduct a search through the files of the Environmental Approvals Branch requires an additional 8 hours. If you would like us to search for Environmental Compliance Approvals/Certificates of Approval at the Environmental Approvals Branch (EAB), please forward to me at the above address payment by money order or cheque (made payable to the "Minister of Finance (FOI)") or by credit card in the amount of \$240.00. Please note that there is no guarantee any records will be located responsive to your request. Credit card forms are available on the Ministry's website <http://www.ontario.ca/environment-and-energy/freedom-information-request-form-credit-card-form>. Please note, a request for records must usually be answered within 30 calendar days, however Section 27 allows for time extensions under certain circumstances. If you choose to have the search conducted at the Environmental Approvals Branch, the time for answering your request will be extended for an additional 30 days.

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

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

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

If you have any questions regarding this matter, please contact Kaitlynne Low at kaitlynne.low@ontario.ca.

Yours truly,

A handwritten signature in black ink, appearing to read 'J. Dadufalza', written in a cursive style.

Janet Dadufalza
FOI Manager

Ministry of the Environment
and Climate Change

Freedom of Information and
Protection of Privacy Office

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40 St. Clair Avenue West
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Téléc.: (416) 314-4285



May 15, 2017

Breanne Graham
Stantec Consulting
835 Paramount Dr
Stoney Creek, ON L8J 0B4

Dear Breanne Graham:

RE: ***Freedom of Information and Protection of Privacy Act Request***
Our File # A-2017-03157, Your Reference 122120255

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 69 Maple Ave S, Mississauga.

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

To conduct a search through the files of the Environmental Approvals Branch requires an additional 8 hours. If you would like us to search for Environmental Compliance Approvals/Certificates of Approval at the Environmental Approvals Branch (EAB), please forward to me at the above address payment by money order or cheque (made payable to the "Minister of Finance (FOI)") or by credit card in the amount of \$240.00. Please note that there is no guarantee any records will be located responsive to your request. Credit card forms are available on the Ministry's website <http://www.ontario.ca/environment-and-energy/freedom-information-request-form-credit-card-form>. Please note, a request for records must usually be answered within 30 calendar days, however Section 27 allows for time extensions under certain circumstances. If you choose to have the search conducted at the Environmental Approvals Branch, the time for answering your request will be extended for an additional 30 days.

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

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

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

If you have any questions regarding this matter, please contact Kaitlynne Low at kaitlynne.low@ontario.ca.

Yours truly,


Janet Dadufalza
FOI Manager

**Ministry of the Environment
and Climate Change**

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Téléc.: (416) 314-4285



May 15, 2017

Breanne Graham
Stantec Consulting
835 Paramount Dr
Stoney Creek, ON L8J 0B4

Dear Breanne Graham:

RE: ***Freedom of Information and Protection of Privacy Act Request***
Our File # A-2017-03158, Your Reference 122120255

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 73 Maple Ave S, Mississauga.

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

To conduct a search through the files of the Environmental Approvals Branch requires an additional 8 hours. If you would like us to search for Environmental Compliance Approvals/Certificates of Approval at the Environmental Approvals Branch (EAB), please forward to me at the above address payment by money order or cheque (made payable to the "Minister of Finance (FOI)") or by credit card in the amount of \$240.00. Please note that there is no guarantee any records will be located responsive to your request. Credit card forms are available on the Ministry's website <http://www.ontario.ca/environment-and-energy/freedom-information-request-form-credit-card-form>. Please note, a request for records must usually be answered within 30 calendar days, however Section 27 allows for time extensions under certain circumstances. If you choose to have the search conducted at the Environmental Approvals Branch, the time for answering your request will be extended for an additional 30 days.

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

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

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

If you have any questions regarding this matter, please contact Kaitlynn Low at kaitlynn.low@ontario.ca.

Yours truly,

A handwritten signature in dark ink, appearing to read 'Janet Dadufalza', is written over a large, stylized lowercase letter 'f'.

Janet Dadufalza
FOI Manager

**Ministry of the Environment
and Climate Change**

Freedom of Information and
Protection of Privacy Office

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Toronto ON M4V 1M2
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Téléc.: (416) 314-4285



May 16, 2017

Breanne Graham
Stantec Consulting
835 Paramount Dr
Stoney Creek, ON L8J 0B4

Dear Breanne Graham:

RE: *Freedom of Information and Protection of Privacy Act Request*
Our File #: A-2017-03048, Your Reference #: 122120255

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 10 Mississauga Rd S, Mississauga.

After a search of the Ministry's Halton Peel District Office, Investigations and Enforcement Branch, Environmental Monitoring and Reporting Branch, Sector Compliance Branch and Safe Drinking Water Branch, records were located in response to your request. It is my preliminary decision to provide partial access to the information as the identity of complainants will be removed to protect privacy (Section 21(1)(f) of the Act). As well, corporate confidential information will require notice to the third party (Section 17(1)(a), (c) of the Act).

In accordance with Section 57 of the *Freedom of Information and Protection of Privacy Act*, the estimated fee is:

• Search Time 1 hour @ \$30/hour	\$30.00
• CD	10.00
• Preparation Time approx. 0.30 hour @ \$30/hour	9.00
• Delivery	3.00
• Total	\$52.00
• Deposit Received	- 30.00
• Balance Due	\$22.00

Due to the volume, the records will be provided to you electronically on a CD. The Ministry has relied on Order PO-3621 by the Office of the Information and Privacy Commission (IPC) in order to calculate the estimated fees. Order PO-3621 states that the Ministry may charge a preparation fee of \$30.00 per hour for every 1,200 pages of scanned records. The breakdown of the approximate preparation fee is as follows: an estimated 0.30 hours to convert approximately 360 pages to electronic format. Please note, that upon completion of the Ministry's review, additional preparation charges may be applied to account for any severances made to the records in accordance with the exemptions under the Act. These severances will be charged at a rate of \$30.00 per hour, calculated at a rate of two minutes per page.

In order for us to continue processing the request, please forward this amount to our office. You may pay by money order or cheque (made payable to the "Minister of Finance (FOI)") or by credit card. Credit card forms are available on the Ministry's website <http://www.ontario.ca/environment-and-energy/freedom-information-request-form-credit-card-form>. Please do not mail cash.

If payment has not been received within 45 days this file will be closed. When remitting payment, please quote our file number or attach a copy of this letter.

To conduct a search through the files of the Environmental Approvals Branch requires an additional 8 hours. If you would like us to search for Environmental Compliance Approvals/Certificates of Approval at the Environmental Approvals Branch (EAB), \$240.00 in addition to the above amount is required (please note that there is no guarantee any records will be located responsive to your request). **As EAB may have filed approval records by the proponent of the approval (current/former property owner/tenants of the property) rather than the site address, you will be required to provide all current/former property owner/tenant names for the search years you requested in your application when submitting payment for this search.**

The District Office has advised that there may be records in the Records Centre, Mississauga. To retrieve these files there is a charge of \$60.00 with no guarantee that any records will be located responsive to your request. If you would like us to retrieve these files, \$60.00 in addition to the above amount is required.

A request for records must usually be answered within 30 calendar days, however Section 27 allows for time extensions under certain circumstances. The time limit for answering your request has been extended for an additional 90 days after receipt of your deposit. This additional time is required because of the extremely large volume of material to be reviewed and prepared for disclosure.

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

If you have any questions regarding this matter, please contact Sharon Menzies at (416) 327-1429.

Yours truly,


Janet Dadufalza
FOI Manager



OCCURENCE REPORT

Location of Occurrence: TORONTO CITY Reg: 3 Dist: TO Municipality: 01106		Source: HARBOUR REMEDIATION 97 COMMISSIONER STREET, TORONTO Sector: Source: SIC: UTM: N: [] E: [] Zone: []	
Entered: 1996/12/12 11:42	ORIS No. 9630003173	Abstracts: 0	Diaries: 1
Received By: PEARL SHORE		Batch: 2341	I. E. B. No.
Occurrence Type: C	Subtype: 01	Occurrence Date:	1996/12/02
Work Plan:	11	Occurrence Time:	16:25
Reported By:		Report to MOE : 1996/12/02 16:25 MOE at Scene: 96/12/10 14:35	
		Assigned To:	PEARL SHORE
		ERP Contacted: Callout: [] NSP: [] ERP Name:	
Syn: ODOURS			
Brief Summary: ODOURS REPORTED, AFFECTING SECURITY GUARD - [REDACTED] HAS CALLED [REDACTED] AND LEFT A MESSAGE. SOURCE CONFIRMED TO HRT SEE HAND WRITTEN COPY ATTACHED. ODOUR COMPLAINT. FURTHER INFORMATION RE: THE PROBLEM CAN BE OBTAINED FROM SECURITY GUARD [REDACTED] 51 COMMISSIONERS STREET ([REDACTED]) ABATEMENT - ODOURS CONFIRMED OFFSITE ON DEC. 10. SPECIAL ISSUES HOLDUP MEETING WITH COMPANY & METRO TO RECITIFY ODOUR PROBLEM. IEB FOR YOUR REVIEW.			
If there are related reports, record initial/master ORIS No. here >>			
Followup Action: X Abatement X IEB Other			
BF Date: ABATEMENT - ONGOING IEB FOR YOUR REVIEW			
File Closed: X Abatement: IEB Other			
Suspected Violation: 11			
Report Prepared By: PEARL SHORE	Date: 12/12/96	IEB Investigator: ED SENNEMA	IEB BF Date
Approving Officer PETER BALABAN	Date: 27/01/97	Reviewing Officer:	Date
Specify number(s) for routing Original [] [] [] [] []		Continued [] Yes	
Specify number(s) for copy distribution [] [] [] [] [] []			
1. Investigator/E.O.	2. D. O. /File	3. SAC (initial spills)	
4. Reg. Dir. / _____ Mgr.	5. IEB Reg. Spv	6. IEB H.O./file	7. Other _____
SAC Action Class: 1: 2:			

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

s.21

Material 3:		Code :
Amount :		UN No.:
Cause. :		Code. . :
Reason. :		Code. . :
Person in Control:		Waste GenNum :
Owner :		Waste GenNum :
Agencies Involved :		
Clean up and Restoration Carried out by:		
<input type="checkbox"/> [v] Controller <input type="checkbox"/> [v] Owner <input type="checkbox"/> [N] Other		
% Cleaned up:		Estimated Cost:
Were Directions or Approval Given Under		
EPA Part X <input type="checkbox"/> [v]	Regulation 362 <input type="checkbox"/> [v]	Manifest No.
Waste Class :		Code . . :
Hauler :		Code . . :
Disposal Site :		Code . . :
Environmental Impact:	Nature of Impact:	Code . . :
People/Business Damaged		
(Other than to Owner/Controller) :		
Nature of Damage:		Code . . :



OCCURENCE REPORT

Location of Occurrence: TORONTO CITY		Source: HARBOUR REMEDIATION 97 COMMISSIONER STREET, TORONTO Sector: Source: SIC: UTM: N: [] E: [] Zone: []	
Entered: 1997/03/07 14:21	ORIS No. 9730000451	Abstracts: 0	Diaries: 0
Received By: PEARL SHORE		Batch: 2343	I. E. B. No.
Occurrence Type: C	Subtype: 01	Occurrence Date:	1997/01/27
Work Plan:	11	Occurrence Time:	09:00
Reported By:		Report to MOE : 1997/01/27 09:00 MOE at Scene:	
		Assigned To:	PEARL SHORE
		ERP Contacted: Callout: [] NSP: [] ERP Name:	
Syn: ODOURS			
Brief Summary: STATES ODOURS SMELL LIKE FISH AND GARBAGE, SOURCE IS HR&T. CALLER IS KEEPING A LOG BOOK OF ODOURS AND IT IS BEING KEPT AT THE [] SITE.			
If there are related reports, record initial/master ORIS No. here >>>			
Followup Action: X Abatement X IEB Other			
BF Date: SITE INSPECTION DONE AGAIN ON JAN 31/97. PLEASE REFER TO FILES AND OTHER COMPLAINTS			
File Closed: X Abatement: IEB Other			
Suspected Violation: 11			
Report Prepared By: PEARL SHORE	Date: 07/03/97	IEB Investigator:	IEB BF Date
Approving Officer PETER BALABAN	Date: 07/03/97	Reviewing Officer:	Date
Specify number(s) for routing Original [] [] [] [] []		Continued [] Yes	
Specify number(s) for copy distribution [] [] [] [] [] []			
1. Investigator/E.O.	2. D. O. /File	3. SAC (initial spills)	
4. Reg. Dir. / _____ Mgr.	5. IEB Reg. Spv	6. IEB H.O./file	7. Other _____
SAC Action Class: 1: 2:			

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

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



OCCURENCE REPORT

Location of Occurrence: MISSISSAUGA CITY ESSO DECOMMISSIONING SITE PORT CREDIT Reg: 3 Dist: HP Municipality: 21102		Source: TRUCK Sector: Source: SIC: UTM: N: [] E: [] Zone: []	
Entered: :	ORIS No. 9230502512	Abstracts:	Diaries: 1
Received By: SANDY PATERSON		Batch: 765	I. E. B. No.
Occurrence Type: C	Subtype: 03	Occurrence Date:	1992/10/05
Work Plan:		Occurrence Time:	15:45
Reported By:		Report to MOE : 1992/10/05 15:45 MOE at Scene: :	
		Assigned To:	MARION GIBSON
		ERP Contacted: Callout: [] NSP: [] ERP Name:	
Brief Summary: CALLERS REPORTING ALL THEIR VEGETATION/FOLIAGE IS COVERED WITH A WHITE DUST FROM EITHER THE REFINERY OR THE MANY TRUCK WHICH COME & GO FROM THE SITE. THERE ARE NO TARPS COVERING WHEN TRUCKS LEAVE SITE. 92/10/13 : SPOKE WITH MR. NYHOLT @ ESSO. STATES THERE HAS BEEN VERY LITTLE TRUCK TRAFFIC LATELY IN THAT AREA. IT WAS A VERY WINDY, DRY WEEK.			
If there are related reports, record initial/master ORIS No. here >>			
Followup Action: Abatement IEB Other BF Date:			
File Closed: X Abatement: IEB Other Suspected Violation:			
Report Prepared By: MARION GIBSON		Date: 13/10/92	IEB Investigator:
Approving Officer BOB ADCOCK		Date: 14/10/92	IEB BF Date
		Reviewing Officer:	Date
Specify number(s) for routing Original [] [] [] [] []		Continued [] Yes	
Specify number(s) for copy distribution [] [] [] [] [] []			
1. Investigator/E.O.	2. D. O. /File	3. SAC (initial spills)	
4. Reg. Dir. / _____ Mgr.	5. IEB Reg. Spv	6. IEB H.O./file	7. Other _____
SAC Action Class: 1: 2:			

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

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

OCCURENCE REPORT

Location of Occurrence: MISSISSAUGA CITY MISSISSAUGA ROAD SOUTH Reg: 3 Dist: HP Municipality: 21102		Source: IMPERIAL OIL 10 MISSISSAUGA ROAD SOUTH, MISSISSAUGA Sector: Source: SIC: UTM: N: [4828000] E: [609000] Zone: [17]	
Entered: 2000/08/21 16:30	ORIS No. 9930009347	Abstracts: 0	Diaries: 0
Received By: ROBIN MCKNIGHT		Batch: 3719	I. E. B. No.
Occurrence Type: N	Subtype: 01	Occurrence Date:	2000/07/27
Work Plan:	WH	Occurrence Time:	
Reported By: JEAN FRANCOIS TRUDEL ONYX INDUSTRIES INC.		Report to MOE : 2000/07/25 15:07 MOE at Scene:	
Telephone No. 514-351-7264 x	Alternate No. x	Assigned To:	ANNA SALEMI
Address: 7887 RUE GRENACHE ANJOU, QUEBEC Postal Code: H1J 1C4		ERP Contacted: Callout: <input type="checkbox"/> ERP Name: NSP: <input type="checkbox"/>	
Syn: ONYX: NOTIFICATION OF TRANSFER OF HAZARDOUS WASTE			
Brief Summary: CENTRAL REGION OFFICE FORWARDED FAX THEY RECEIVED REGARDING THE TRANSPORT OF HAZARDOUS WASTE IN THE HALTON PEEL AREA. WASTE TO BE TRANSPORTED IS 22 DRUMS OF PCB MATERIALS. SEE ATTACHED FAX FOR FURTHER DETAILS.			
If there are related reports, record initial/master ORIS No. here >>			
Followup Action: Abatement IEB Other BF Date: NFA			
File Closed: X Abatement: IEB Other Suspected Violation:			
Report Prepared By: ANNA SALEMI		Date: 18/12/2000	IEB Investigator:
Approving Officer ROBERT ADCOCK		Date: 18/12/2000	IEB BF Date
		Reviewing Officer:	Date
Specify number(s) for routing Original [] [] [] []		Continued [] Yes	
Specify number(s) for copy distribution [] [] [] [] [] []			
1. Investigator/E.O.	2. D. O. /File	3. SAC (initial spills)	
4. Reg. Dir. / _____ Mgr.	5. IEB Reg. Spv	6. IEB H.O./file	7. Other _____
SAC Action Class: 1: 2:			

Material 1: POLYCHLORINATED BIPHENYLS (PCB)	Code : 26
Amount :	UN No.: 2315
Material 2:	Code :
Amount :	UN No.:
Material 3:	Code :
Amount :	UN No.:

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



RECORD OF SITE VISIT

Reference Number:	3636-5NLQ7K	File Storage Number:	SI HP MS MI 630
Module:	Inspections	Module Type:	PCB Storage Site
Cross Reference:	(doc link)	Task Link:	6413-5NLRBB
Originating Document:		Created by:	Bob Adcock
Date Created:	2003/06/17	Date Completed:	2004/02/19
Bring Forward Date:		Bring Forward Reason:	
Status:	Cancelled		
Program	Waste - Hazardous & Liquid industrial	Activity:	Inspections - PCB Facilities

Client(s)

Client Details
Imperial Oil Limited Mailing Address: 111 St. Clair Avenue West, Toronto, Ontario, Canada, M5W 1K3 Physical Address: Lot: , Concession: , Part: , Plan: , 111 St. Clair Avenue West, Toronto, City, Ontario, Canada, M5W 1K3 Telephone: (613)226-7785 Client #: 0308-4EFTBN, Client Type: Corporation, NAICS: 42272

Site(s)

Site Details
Imperial oil PCB site Address: Concession: , Plan: , 10 Mississauga Rd. S., Mississauga, City, Regional Municipality of Peel, L5H 4M6 District Office: Halton-Peel Site #: 0158-5NLQ2M

General

Date of Last Inspection:		Inspection Due Date:	2003/08/29
Inspection Start Date:		Inspection Finish Date:	
Inspection Pass/Fail:	No Inspection	Risk Score:	
Site Region:	Central		
File Review:			
Comments:			

Inspection Time of Day
Indicate if this inspection was conducted during a week day (normal hours) or during an evening, night, weekend or holiday (after hours)
<input checked="" type="radio"/> Normal Hours Inspection <input type="radio"/> After Hours Inspection

		Fiscal year	
Why were changes made to Risk Information?			



SI-HP-MS-M1-400

CJH / Peter

Ministry of
Environment
and Energy

Ministère de
l'Environnement
et de l'Énergie

250 Davisville Avenue
Toronto ON M4S 1H2

250, avenue Davisville
Toronto ON M4S 1H2

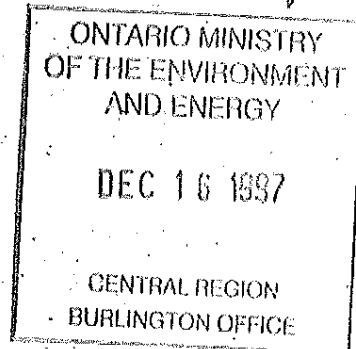
APPROVALS BRANCH

Tel: (416) 440-3740
Fax: (416) 440-6973

27 SEP 17 AM 11:11

September 4, 1997

Mr. Siep Nyholt
Site Remediation Specialist
Imperial Oil Ltd.
Products and Chemical Division
10 Mississauga Road South
Mississauga, Ontario
L5G 4M6



Dear Mr. Nyholt:

Re: Amendment to the existing Sewage Works
Imperial Oil Ltd., Products and Chemical Division,
Mississauga, Ontario
Notice to Amend the Certificate of Approval No. 4-0047-93-006
(Revision No. 1).

Enclosed is the above noted Notice as required under Section 53 of the
Ontario Water Resources Act.

One week prior to operation of the amended sewage works please inform
the District Manager of the Hamilton District Office.

Please be advised that the existing effluent criteria shall remain
unchanged during the treatment of the wastewater generated from
pipeline pressure testing.

Should you have any inquiries regarding the above approval, please do
not hesitate to contact Aminul Chowdhury, P. Eng. at (416) 440-3725.

Yours truly,

for

M. Dhalla, P.Eng.
Director, Section 53,
Ontario Water Resources Act.

AC/st
Encl.

cc: District Manager, MOEE Hamilton District Office





Ministry of
Environment
and Energy

Ministère de
l'Environnement
et de l'Énergie

AMENDMENT TO CERTIFICATE OF APPROVAL
INDUSTRIAL SEWAGE
NUMBER 4-0047-93-006
REVISION NO. 1
Page 1 of 2

NOTICE

Imperial Oil Limited
Products and Chemical Division
10 Mississauga Road, South
Mississauga, Ontario
L5G 4M6

You are hereby notified that the approval issued under Certificate of Approval No. 4-0047-93-006 dated July 19, 1993, is hereby amended to include the following:

Part I - Additional Sewage Works

The following sewage works is hereby added:

- "one (1) pump and piping system for transfer of approximately 240 cubic metres of wastewater generated from pressure testing of 4.6 kilometres long pipeline to the holding tank for further treatment in the oil/water separator and the activated carbon units;"

Part II - Terms and Conditions

The following condition is hereby added to Condition No. 7 - EFFLUENT QUALITY MONITORING:

- "7(6) During treatment of the wastewater generated from pipeline pressure testing, the owner shall take a grab sample of the wastewater from the sample port # 3 on a daily basis for analysis of the parameters specified in subsection (1)."

The reason for inclusion of the above condition is to ensure that the wastewater generated from pressure testing of the pipeline is monitored for the specified parameters.

Part II - Schedule A

Schedule A of the said certificate is hereby amended to include the following additional document:

3. Application for Approval of Industrial Sewage Works dated June 25, 1997, from Mr. Siep Nyholt of Imperial Oil Ltd., Products and Chemical Division, Mississauga, Ontario.

This Notice shall constitute part of the approval issued under Certificate of Approval No. 4-0047-93-006 dated July 19, 1993.



Ministry of
Environment
and Energy

Ministère de
l'Environnement
et de l'Énergie

AMENDMENT TO CERTIFICATE OF APPROVAL
INDUSTRIAL SEWAGE
NUMBER 4-0047-93-006
REVISION NO. 1
Page 2 of 2

In accordance with Section 100 of the Ontario Water Resources Act, R.S.O. 1990, Chapter O.40, as amended, you may by written notice served upon me and the Environmental Appeal Board within 15 days after receipt of this Notice, require a hearing by the Board. Section 101 of the Ontario Water Resources Act, provides that the Notice requiring the hearing shall state:

1. The portions of the approval or each term or condition in the approval in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

The Notice should also include:

3. The name of the appellant;
The address of the appellant;
4. The Certificate of Approval number;
6. The date of the Certificate of Approval;
7. The name of the Director;
8. The municipality within which the sewage works are located;

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary,
Environmental Appeal Board,
2300 Yonge Street, 12th Floor,
P.O. Box 2382,
Toronto, Ontario.
M4P 1E4

AND


The Director,
Section 53, *Ontario Water Resources Act*,
Ministry of Environment and Energy,
250 Davisville Avenue, 3rd Floor,
Toronto, Ontario.
M4S 1H2

The above noted sewage works are approved under Section 53 of the Ontario Water Resources Act.

DATED AT TORONTO this 4th day of September, 1997.

THIS IS A TRUE COPY OF THE
ORIGINAL, 1997-09-04

Sept 11/97
87
SIGNED


M. Dhalla, P.Eng.
Director, Section 53,
Ontario Water Resources Act.

AC/st

cc: District Manager, MOEE Hamilton District Office



Imperial Oil

SI-HP-MS-MI — 140

Imperial Oil
Products and Chemicals Division
10 Mississauga Road S.
Mississauga, Ontario
Canada L5G 4M6

R.S. Hall
Manager
Marketing Services

Engineering Services

Marketing Department

July 15, 1999

Mr. John Budz
Halton-Peel District
Ministry of the Environment
1182 North Shore Blvd., East
Burlington, Ontario
L7R 3Z9

Dear Mr. Budz,

The following meeting notes, including attachments, are intended to document our June 10, 1999 meeting discussions and mutual understanding between Imperial Oil and the Halton-Peel district office of the MOE. If you disagree with any portion of these notes or have any comments, additions or omissions please notify the undersigned.

Subject: Port Credit (Surplus Site)

Meeting Location: Imperial Oil's offices located at 10 Mississauga Road

Attendees:

MOE: John Budz, Gerry Healy, Bob Adcock, Tom Brankovic

IO: Roger Bywater, Peter Miasek, Siep Nyholt

O'Connor Associates: Gary Karp, Ron McKee

Briarwood: Geno Castellarin

Plant Products: Roger Fisher

Agenda:

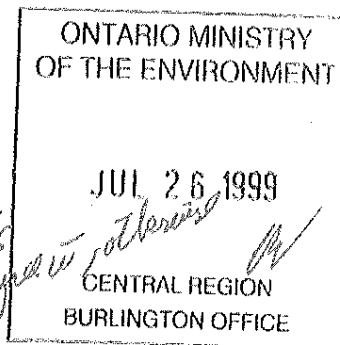
This meeting was initiated by Imperial Oil for the purpose of continuing to review progress and obtaining a mutual understanding regarding specific general site management initiatives related to the subject Port Credit (former Texaco refinery) surplus site.

General:

The meeting was divided into two parts. The first dealing with the status of various projects and programs as they relate to the management of the site. The second part dealt specifically with the proposed clean up of 70 Wesley and included Messrs. Castellarin and Fisher. Attachments are as follows:

Attachment I: Meeting Minutes PART I (compiled by O'Connor Associates)
Environmental Regulatory Compliance and Commitment Managing System

Attachment II: Meeting Minutes PART II (compiled by O'Connor Associates)



O'CONNOR ASSOCIATES

62 Scurfield Boulevard, Unit 22

Winnipeg, Manitoba R3Y 1M5

Ph: (204) 489-2964 Fax: (204) 489-3014

BRITISH COLUMBIA • ALBERTA • SASKATCHEWAN • MANITOBA • ONTARIO • NOVA SCOTIA

Date: 99/09/28

Project No: 10-2936.11,9

To: Gerry Healy

Company: MOE

Fax No: 905-637-4175

From: Gary Karp

Re: Port Credit, Ontario

No. of Pages (including cover page): 1

SI-HP-MS-MI-140

MESSAGE:

Gerry

10. Mississauga Rd.

Our third quarter (Q3/99) monitoring and sampling program for the Port Credit Marketing Area Extension site will be delayed by several weeks due to technical difficulties associated with the pump-and-treat plant. We plan to complete the Q3/99 monitoring/sampling program by October 8, 1999. If you have any questions, please feel free to call me.

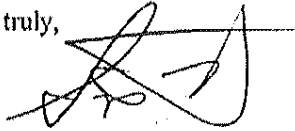
Regards,

Gary

CC: Siep Nyholt, Imperial Oil (905-278-2568)

(2)

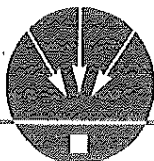
Yours truly,



Siep Nyholt, CET
Site Remediation Specialist

cc: R. McKee, OAEI
G. Karp, OAEI
R. Bywater, IOL, Devon Estates
P. Miasek, IOL
Gerry Healy, MOE
Bob Adcock, MOE
Tom Brankovick, MOE
Geno Castellarin, Briarwood (Attachment II)
Roger Fisher, Plant Products (Attachment II)

Moepc98.doc



July 15, 1999

10-2936.11,9

**ATTACHMENT I
MEETING NOTES - PART I**

DATE: 99/06/10

LOCATION: Imperial Oil Limited
10 Mississauga Road South
Mississauga, Ontario

RE: Former Texaco Refinery
PORT CREDIT, ONTARIO

ATTENDING:

John Budz	Ontario Ministry of Environment (MOE)
Gerry Healy	MOE
Robert Adcock	MOE
Tom Brankovic	MOE
Roger Bywater	Devon Estates
Peter Miasek	Imperial Oil (IOL)
Siep Nyholt	IOL
Ron McKee	O'Connor Associates Environmental Inc. (OAEI)
Gary Karp	OAEI

TOPICS DISCUSSED

1. Siep began the meeting with a brief review of the minutes from our last meeting of 98/06/17.
2. Siep outlined Imperial Oil's plan to remove PCBs stored onsite (South Property) in the year 2000.
3. Siep presented a table entitled *Environmental Regulatory Compliance and Commitment Managing System* (attached). The table outlines IOL's system of managing regulatory issues for the Port Credit site. Siep stated that the table is updated regularly.
4. Roger commented that the North Property is expected be sold on July 13, 1999.
5. Gary presented the following overview and comments concerning the site activities undertaken over the past year:

70 Wesley Street

- Groundwater monitoring at all onsite wells, and sampling of selected wells for VOCs, were carried out on four occasions (June, September and December 98, and March 99).
- A subsurface investigation was undertaken in July 1998 to assess the extent of VOC and pesticide impact beneath the Parson's Tire building. The investigation included the advancement of boreholes and soil and groundwater sampling for chemical analyses.
- A geophysical survey was undertaken in the parking lot in July 1998. A follow-up test pit investigation was undertaken by Plant Products in December 98 to assess the absence or presence of pesticide canisters beneath the parking lot. The locations of the test pits were based on subsurface anomalies detected by the geophysical survey.
- Groundwater sampling for pesticide analysis was carried out at selected locations in the parking lot.

Park Street

- The overburden pumping well located in the dewatering trench continued to operate.
- Groundwater monitoring of all onsite wells, and sampling of selected wells, were carried out on four occasions.

Orange & Green Lands

- One pumping well (in the bedrock cut-off trench) continued to operate on the Orange Lands.
- Three bedrock pumping wells continued to operate on the Green Lands.
- The pump-and-treat plant continued to operate.
- Groundwater monitoring and sampling were carried out on four occasions.
- Groundwater capture and chemistry were tracked after each monitoring event.

Section 17 Area

- An investigation was undertaken to assess current subsurface conditions with respect to petroleum contamination beneath the Section 17 area.

South Property

- Groundwater monitoring and sampling of selected wells were carried out on four occasions (June, September and December 98, and March 99).
- The overburden pumping wells located in the cutoff trenches continued to operate.
- 6. Gary also presented the following overview and comments concerning the learnings from the work undertaken over the past year:

70 Wesley Street

- Impacted groundwater continued to be captured by the overburden pumping well.
- There was no evident spreading of dissolved contaminants.
- Solvent impacted soil and groundwater were detected beneath the central and east portions of the Parson's Tire building.
- Pesticide impacted soil was detected beneath the building. Pesticide concentrations in groundwater beneath the parking lot did not exceed MOE Table B commercial criteria.
- Pesticide canisters were not detected in any of the test pits in the parking lot.

Park Street

- Impacted groundwater continued to be captured by the overburden and bedrock pumping wells.
- There was no evident spreading of dissolved contaminants.

Orange & Green Lands

- The volume of water handled by the pump-and-treat plant was generally consistent over the second half of 1998 and similar to previous years. The volume of water handled in early 1999 was generally lower than previous years as precipitation / aquifer recharge was unusually low.
- The plant effluent quality continually met the sanitary sewer use by-law.
- Groundwater flow cutoff continued to be achieved at the Orange / Green Lands boundary, as a result of the Orange Lands and Park Street trenches and continual operation of the pumping wells.

- There was no evident spreading of dissolved contaminants.
- Average dissolved VOC concentrations did not change significantly over the past year.

Section 17 Area

- Liquid phase hydrocarbons were not detected in any of the investigation test pits; soil quality complied with the cleanup criteria (MOE Suite of 43 compounds).
- Levels of TPH in groundwater remained elevated at monitoring well MA87-3D; TPH levels declined at all other locations. A remedial excavation is planned to remove the impacted bedrock and groundwater in the vicinity of MA87-3D.

South Property Area

- The volume of water handled by the pump-and-treat plant was generally consistent over the past year and similar to previous years.
 - The plant effluent quality continually met the Sanitary Sewer Use By-law.
 - The shale pit effluent quality continually met the selected criterion.
 - Dissolved BTEX concentrations did not change significantly over the past year.
7. Siep reviewed IOL's plan to excavate the remaining petroleum impacted bedrock from the vicinity of monitoring well MA87-3D located in the Section 17 area.
 8. John stated that if the MOE is requested to provide a letter commenting on the Section 17 area cleanup, then the MOE would have to attend the site to assess the bedrock conditions during the remedial work. He would also like to see several test trenches advanced across the area to verify bedrock conditions.
 9. Roger presented an overview of the South Property Walkway status. Several legal and monitoring issues are under review. A proposed licencing agreement between IOL and the City of Mississauga refers to a specification for soil quality. This specification was derived by a site specific risk assessment. The source of the fill required to build the walkway is yet to be determined. OAEI is expected to work for the City of Mississauga to develop a program to monitor and maintain the status of the lands beneath the Walkway. The monitoring program would be implemented in concert with routine IOL South Property monitoring programs.

Imperial Oil, Products and Chemicals Division
July 15, 1999
Page 5

10-2936.11,9

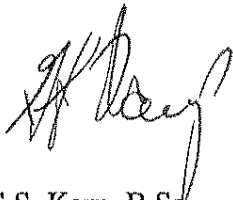
John stated that if fill material is imported to the site, the fill quality would have to meet Table F criteria; however, if the fill was derived from the site, the fill quality would have to meet residential criteria. Siep stated that suitable fill could likely be derived from the South Property berm.

John stated that a Record of Site Conditions would not be needed because the cleanup commenced under the old guideline and the property ownership will be retained by IOL.

We trust that the foregoing adequately represents the topics of discussion. If you have any questions or concerns, please do not hesitate to contact the undersigned.

Notes prepared by:

O'CONNOR ASSOCIATES ENVIRONMENTAL INC.



G.S. Karp, B.Sc.

Ronald C.E. McKee, P.Eng.

GSK:bn

Distribution: (9) Siep Nyholt

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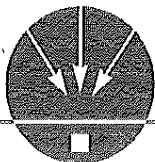


Environmental Regulatory Compliance & Commitment Managing System

Site: Port Credit (as of June 30, 1999)

BY: S.J. Nyholt

Permit or Regulation	Responsibility	Reporting Requirements	Due Date	Required Data	File Location (includes procedures)	Date Submitted	Notes: Revision Date:
Site No.302-86A006 PCB Storage	SJN	Annual MOEE	Jan.31	confirmation of monthly inspections	P.C. NB103F	Jan.7/99 (last)	Monthly inspections documented MOE inspection Jun.10/98'
PTTW 94-P-3017 S.P. P&T take water	SJN	Changes or Exceedances (exception based) MOEE	Changes within 30 days, exceedances forthwith	daily volumes >50m³	P.C. NB119F	N/A	Expires 3/31/04
Peel 90-90 & 96' site specific criteria S.P. P&T	SJN	volumes - quarterly quality - semi annual. (data on file) Region of Peel	vol. - 15th of month following each qrtr. qual. - May & Nov.	Meter readings (qual. data on file)	P.C. NB119F	April 12/99 (last)	Expires 12/31/99' (new) (apply by Nov.1/99')
Peel 90-90 & 96' site specific criteria Mktg. Area P&T	SJN	volumes - quarterly quality - semi annual. (data on file) Region of Peel	vol. - 15th of month following each qrtr. qual. - May & Nov.	Meter readings (qual. data on file)	P.C. NA276F P&T S.P. -96'	April 12/99 (last)	No expiry
PTTW 92-P-3030 Take water from Lake Ontario	SJN	Changes or Exceedances (exceptn. based) MOEE	Changes within 30 days, exceed. forthwith	daily volumes	P.C. NA288F	N/A	Expires 3/31/02
Registration ON1315723 Subject Waste Generator Reg.	SJN	As and when waste generated (manifest) MOEE	per event	as required on Manifest	P.C. NA 288F	Date of reg. 2/3/92	
"Effluent Quality Objectives for Petroleum Refineries" Shale Pit - Effluent	SJN	Per 6/3/96 spec rpt. exceedances forthwith, MOEE	Qrtly. (internal, on file)	spec. re: 6/3/96 MOEE ltr.	P.C.	Held on file	Q1/99 TSS meets criteria
OTHER							
Mktg. Area P&T performance	SJN	Exception/ progress mtg. basis MOEE	Qrtly. (on file)	quality/status	P.C.		
South Property perimeter monitoring	SJN	Exception/ progress mtg. basis MOEE	Qrtly. (on file)	quality/status	P.C.		
Abnormal discharge to air, water or ground	SJN	Potential for adverse impact to be rpt'd forthwith, MOEE	Forthwith	analytical results, cause & effect (where applicable)	P.C.	n/a	exception based, e.g. equip. leaks, excavation discoveries etc.



July 15, 1999

10-2936.11,9

**ATTACHMENT II
MEETING NOTES - PART II**

DATE: 99/06/10

LOCATION: Imperial Oil Limited
10 Mississauga Road South
Mississauga, Ontario

RE: Former Texaco Refinery
PORT CREDIT, ONTARIO

ATTENDING:

John Budz	Ontario Ministry of Environment (MOE)
Gerry Healy	MOE
Robert Adcock	MOE
Tom Brankovic	MOE
Roger Bywater	Devon Estates
Peter Miasek	Imperial Oil (IOL)
Siep Nyholt	IOL
Ron McKee	O'Connor Associates Environmental Inc. (OAEI)
Gary Karp	OAEI
Roger Fisher	Plant Products
Gino Castellarin	Owner of 70 Wesley

TOPICS DISCUSSED

10. Gary presented an overview of the 70 Wesley remedial action plan for the solvents and pesticide cleanup programs:

Solvents Cleanup

- The purpose of the work is to remove the remaining VOC contamination within the overburden and upper bedrock beneath 70 Wesley. The cleanup objectives are the MOE Table B criteria.
- The work will be undertaken over a two month period beginning September 1999.

- The planned extent and depth of the remedial excavation encompasses the areas of the property where soil and groundwater quality did not comply with the MOE Table B criteria.
- Excavated soils will be moved to the Red Lands for determination of disposition, i.e., either offsite disposal or onsite reuse.
- Water which may accumulate in the excavation will be treated onsite or disposed of offsite by a licenced waste hauler.
- The health and safety plan developed for the first phase of work will be used for this second phase of work.
- Air samples will be recovered during the work to maintain an audit of local air quality with respect to VOC emissions.
- The excavation rate will be controlled to minimize VOC emissions.
- Wind speed and direction will be monitored continually during the work.
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- OAEI has a separate agreement for both IOL and Plant Products with respect to the cleanup work.
- After completion of the last phase of work in 1996, pesticide contamination was suspected to exist beneath the Parson's Tire building. In the summer of 1998, the presence of pesticides was confirmed.
- In September 1999 a block excavation will be undertaken to remediate the pesticide contamination beneath the building.

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- Depending on verification results, the soil will be excavated to a depth ranging between 2.5 m below grade and the bedrock surface at approximately 3.5 m.
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John requested that IOL contact Margaret Marland and himself before IOL contacts the 90 Park residents.

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20. John stated that the building demolition waste needs to be handled in accordance with Regulation 103. Further, John suggested that the pesticide impacted soil should be

Imperial Oil, Products and Chemicals Division
July 15, 1999
Page 5

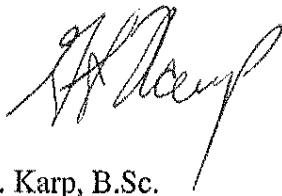
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checked to confirm that it is not a Schedule 1 waste, under Regulation 347, otherwise disposal costs may be significant.

We trust that the foregoing adequately represents the topics of discussion. If you have any questions or concerns, please do not hesitate to contact the undersigned.

Notes prepared by:

O'CONNOR ASSOCIATES ENVIRONMENTAL INC.


G.S. Karp, B.Sc.

Ronald C.E. McKee, P.Eng.

GSK:bn

Distribution: (11) Siep Nyholt

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SI-HP-MS-MI — 140



10 mississauga

Imperial Oil
Products and Chemicals Division
10 Mississauga Road South
Mississauga, Ontario
L5H 4M6

S.J. Nyholt, CET
Site Remediation Specialist
Marketing Engineering Services

Tel: (905) 278-5513
Fax: (905) 278-2568

Fax

To: MOE - Gerry Healy	From: S.J. (Siep) Nyholt
Fax: [Click here and type fax number]	Pages: 1
Phone:	Date: 99/09/29
Re: Port Credit - 70 Wesley	CC: IOL - Roger Bywater

☐ **Urgent** ☐ **For Review** ☐ **Please Comment** ☐ **Please Reply** ☐ **Please Recycle**

Gerry,

Please be advised that Phase II (as approved) of the environmental cleanup at the subject site is scheduled to commence Oct. 1, 1999. Consistent with our June 10, 1999 review meeting, we have contacted MPP Margaret Marland's office and Councilor Carmen Corbisson's office advising them of our activities. In addition I have notified the neighbouring resident, Mr. Les Dixon of our plans.

Should you have further questions or comments, please advise.

Regards,



Imperial Oil

SI-HP-MS-M' - 140

Imperial Oil
Products and Chemicals Division
10 Mississauga Road S.
Mississauga, Ontario
Canada L5G 4M6

R.S. Hall
Manager
Marketing Services

Engineering Services

Marketing Department

July 15, 1999

Mr. John Budz
Halton-Peel District
Ministry of the Environment
1182 North Shore Blvd., East
Burlington, Ontario
L7R 3Z9

ONTARIO MINISTRY
OF THE ENVIRONMENT

JUL 27 1999

CENTRAL REGION
BURLINGTON OFFICE

Bob MA
Taylor att.
me
rob/fb

Dear Mr. Budz,

The following meeting notes, including attachments, are intended to document our June 10, 1999 meeting discussions and mutual understanding between Imperial Oil and the Halton-Peel district office of the MOE. If you disagree with any portion of these notes or have any comments, additions or omissions please notify the undersigned.

Subject: Port Credit (Surplus Site)

Meeting Location: Imperial Oil's offices located at 10 Mississauga Road

Attendees:

MOE: John Budz, Gerry Healy, Bob Adcock, Tom Brankovic

IO: Roger Bywater, Peter Miasek, Siep Nyholt

O'Connor Associates: Gary Karp, Ron McKee

Briarwood: Geno Castellarin

Plant Products: Roger Fisher

Agenda:

This meeting was initiated by Imperial Oil for the purpose of continuing to review progress and obtaining a mutual understanding regarding specific general site management initiatives related to the subject Port Credit (former Texaco refinery) surplus site.

General:

The meeting was divided into two parts. The first dealing with the status of various projects and programs as they relate to the management of the site. The second part dealt specifically with the proposed clean up of 70 Wesley and included Messrs. Castellarin and Fisher. Attachments are as follows:

Attachment I: Meeting Minutes PART I (compiled by O'Connor Associates)
Environmental Regulatory Compliance and Commitment Managing System

Attachment II: Meeting Minutes PART II (compiled by O'Connor Associates)

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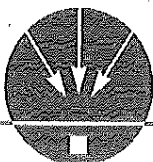
Yours truly,



Slep Nyholt, CET
Site Remediation Specialist

cc: R. McKee, OAEI
G. Karp, OAEI
R. Bywater, IOL, Devon Estates
P. Miasek, IOL
Gerry Healy, MOE
Bob Adcock, MOE
Tom Brankovick, MOE
Geno Castellarin, Briarwood (Attachment II)
Roger Fisher, Plant Products (Attachment II)

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July 15, 1999

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**ATTACHMENT I
MEETING NOTES - PART I**

DATE: 99/06/10

LOCATION: Imperial Oil Limited
10 Mississauga Road South
Mississauga, Ontario

RE: Former Texaco Refinery
PORT CREDIT, ONTARIO

ATTENDING:

John Budz	Ontario Ministry of Environment (MOE)
Gerry Healy	MOE
Robert Adcock	MOE
Tom Brankovic	MOE
Roger Bywater	Devon Estates
Peter Miasek	Imperial Oil (IOL)
Siep Nyholt	IOL
Ron McKee	O'Connor Associates Environmental Inc. (OAEI)
Gary Karp	OAEI

TOPICS DISCUSSED

1. Siep began the meeting with a brief review of the minutes from our last meeting of 98/06/17.
2. Siep outlined Imperial Oil's plan to remove PCBs stored onsite (South Property) in the year 2000.
3. Siep presented a table entitled *Environmental Regulatory Compliance and Commitment Managing System* (attached). The table outlines IOL's system of managing regulatory issues for the Port Credit site. Siep stated that the table is updated regularly.
4. Roger commented that the North Property is expected be sold on July 13, 1999.
5. Gary presented the following overview and comments concerning the site activities undertaken over the past year:

70 Wesley Street

- Groundwater monitoring at all onsite wells, and sampling of selected wells for VOCs, were carried out on four occasions (June, September and December 98, and March 99).
- A subsurface investigation was undertaken in July 1998 to assess the extent of VOC and pesticide impact beneath the Parson's Tire building. The investigation included the advancement of boreholes and soil and groundwater sampling for chemical analyses.
- A geophysical survey was undertaken in the parking lot in July 1998. A follow-up test pit investigation was undertaken by Plant Products in December 98 to assess the absence or presence of pesticide canisters beneath the parking lot. The locations of the test pits were based on subsurface anomalies detected by the geophysical survey.
- Groundwater sampling for pesticide analysis was carried out at selected locations in the parking lot.

Park Street

- The overburden pumping well located in the dewatering trench continued to operate.
- Groundwater monitoring of all onsite wells, and sampling of selected wells, were carried out on four occasions.

Orange & Green Lands

- One pumping well (in the bedrock cut-off trench) continued to operate on the Orange Lands.
- Three bedrock pumping wells continued to operate on the Green Lands.
- The pump-and-treat plant continued to operate.
- Groundwater monitoring and sampling were carried out on four occasions.
- Groundwater capture and chemistry were tracked after each monitoring event.

Section 17 Area

- An investigation was undertaken to assess current subsurface conditions with respect to petroleum contamination beneath the Section 17 area.



South Property

- Groundwater monitoring and sampling of selected wells were carried out on four occasions (June, September and December 98, and March 99).
- The overburden pumping wells located in the cutoff trenches continued to operate.
- 6. Gary also presented the following overview and comments concerning the learnings from the work undertaken over the past year:

70 Wesley Street

- Impacted groundwater continued to be captured by the overburden pumping well.
- There was no evident spreading of dissolved contaminants.
- Solvent impacted soil and groundwater were detected beneath the central and east portions of the Parson's Tire building.
- Pesticide impacted soil was detected beneath the building. Pesticide concentrations in groundwater beneath the parking lot did not exceed MOE Table B commercial criteria.
- Pesticide canisters were not detected in any of the test pits in the parking lot.

Park Street

- Impacted groundwater continued to be captured by the overburden and bedrock pumping wells.
- There was no evident spreading of dissolved contaminants.

Orange & Green Lands

- The volume of water handled by the pump-and-treat plant was generally consistent over the second half of 1998 and similar to previous years. The volume of water handled in early 1999 was generally lower than previous years as precipitation / aquifer recharge was unusually low.
- The plant effluent quality continually met the sanitary sewer use by-law.
- Groundwater flow cutoff continued to be achieved at the Orange / Green Lands boundary, as a result of the Orange Lands and Park Street trenches and continual operation of the pumping wells.

- There was no evident spreading of dissolved contaminants.
- Average dissolved VOC concentrations did not change significantly over the past year.

Section 17 Area

- Liquid phase hydrocarbons were not detected in any of the investigation test pits; soil quality complied with the cleanup criteria (MOE Suite of 43 compounds).
- Levels of TPH in groundwater remained elevated at monitoring well MA87-3D; TPH levels declined at all other locations. A remedial excavation is planned to remove the impacted bedrock and groundwater in the vicinity of MA87-3D.

South Property Area

- The volume of water handled by the pump-and-treat plant was generally consistent over the past year and similar to previous years.
 - The plant effluent quality continually met the Sanitary Sewer Use By-law.
 - The shale pit effluent quality continually met the selected criterion.
 - Dissolved BTEX concentrations did not change significantly over the past year.
7. Siep reviewed IOL's plan to excavate the remaining petroleum impacted bedrock from the vicinity of monitoring well MA87-3D located in the Section 17 area.
 8. John stated that if the MOE is requested to provide a letter commenting on the Section 17 area cleanup, then the MOE would have to attend the site to assess the bedrock conditions during the remedial work. He would also like to see several test trenches advanced across the area to verify bedrock conditions.
 9. Roger presented an overview of the South Property Walkway status. Several legal and monitoring issues are under review. A proposed licencing agreement between IOL and the City of Mississauga refers to a specification for soil quality. This specification was derived by a site specific risk assessment. The source of the fill required to build the walkway is yet to be determined. OAEI is expected to work for the City of Mississauga to develop a program to monitor and maintain the status of the lands beneath the Walkway. The monitoring program would be implemented in concert with routine IOL South Property monitoring programs.

Imperial Oil, Products and Chemicals Division
July 15, 1999
Page 5

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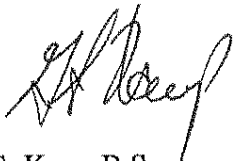
John stated that if fill material is imported to the site, the fill quality would have to meet Table F criteria; however, if the fill was derived from the site, the fill quality would have to meet residential criteria. Siep stated that suitable fill could likely be derived from the South Property berm.

John stated that a Record of Site Conditions would not be needed because the cleanup commenced under the old guideline and the property ownership will be retained by IOL.

We trust that the foregoing adequately represents the topics of discussion. If you have any questions or concerns, please do not hesitate to contact the undersigned.

Notes prepared by:

O'CONNOR ASSOCIATES ENVIRONMENTAL INC.



G.S. Karp, B.Sc.

Ronald C.E. McKee, P.Eng.

GSK:bn

Distribution: (9) Siep Nyholt

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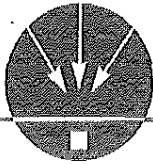


Environmental Regulatory Compliance & Commitment Managing System

Site: Port Credit (as of June 30, 1999)

BY: S.J. Nyholt

Permit or Regulation	Responsibility	Reporting Requirements	Due Date	Required Data	File Location (includes procedures)	Date Submitted	Notes: Revision Date:
Site No.302-86A006 PCB Storage	SJN	Annual MOEE	Jan.31	confirmation of monthly inspections	P.C. NB103F	Jan.7/99 (last)	Monthly inspections documented MOE inspection Jun.10/98'
PTTW 94-P-3017 S.P. P&T take water	SJN	Changes or Exceedances (exception based) MOEE	Changes within 30 days, exceedances forthwith	daily volumes >50m³	P.C. NB119F	N/A	Expires 3/31/04
Peel 90-90 & 96' site specific criteria S.P. P&T	SJN	volumes - quarterly quality - semi annual. (data on file) Region of Peel	vol. - 15th of month following each qrtr. qual. - May & Nov.	Meter readings (qual. data on file)	P.C. NB119F	April 12/99 (last)	Expires 12/31/99' (new) (apply by Nov.1/99')
Peel 90-90 & 96' site specific criteria Mktg. Area P&T	SJN	volumes - quarterly quality - semi annual. (data on file) Region of Peel	vol. - 15th of month following each qrtr. qual. - May & Nov.	Meter readings (qual. data on file)	P.C. NA276F P&T S.P. -96'	April 12/99 (last)	No expiry
PTTW 92-P-3030 Take water from Lake Ontario	SJN	Changes or Exceedances (exceptn. based) MOEE	Changes within 30 days, exceed. forthwith	daily volumes	P.C. NA288F	N/A	Expires 3/31/02
Registration ON1315723 Subject Waste Generator Reg.	SJN	As and when waste generated (manifest) MOEE	per event	as required on Manifest	P.C. NA 288F	Date of reg. 2/3/92	
"Effluent Quality Objectives for Petroleum Refineries" Shale Pit - Effluent	SJN	Per 6/3/96 spec rpt. exceedances forthwith, MOEE	Qrtly. (internal, on file)	spec. re: 6/3/96 MOEE ltr.	P.C.	Held on file	Q1/99 TSS meets criteria
OTHER							
Mktg. Area P&T performance	SJN	Exception/ progress mtg. basis MOEE	Qrtly. (on file)	quality/status	P.C.		
South Property perimeter monitoring	SJN	Exception/ progress mtg. basis MOEE	Qrtly. (on file)	quality/status	P.C.		
Abnormal discharge to air, water or ground	SJN	Potential for adverse impact to be rpt'd forthwith, MOEE	Forthwith	analytical results, cause & effect (where applicable)	P.C.	n/a	exception based, e.g. equip. leaks, excavation discoveries etc.



July 15, 1999

10-2936.11,9

**ATTACHMENT II
MEETING NOTES - PART II**

DATE: 99/06/10

LOCATION: Imperial Oil Limited
10 Mississauga Road South
Mississauga, Ontario

RE: Former Texaco Refinery
PORT CREDIT, ONTARIO

ATTENDING:

John Budz	Ontario Ministry of Environment (MOE)
Gerry Healy	MOE
Robert Adcock	MOE
Tom Brankovic	MOE
Roger Bywater	Devon Estates
Peter Miasek	Imperial Oil (IOL)
Siep Nyholt	IOL
Ron McKee	O'Connor Associates Environmental Inc. (OAEI)
Gary Karp	OAEI
Roger Fisher	Plant Products
Gino Castellarin	Owner of 70 Wesley

TOPICS DISCUSSED

10. Gary presented an overview of the 70 Wesley remedial action plan for the solvents and pesticide cleanup programs:

Solvents Cleanup

- The purpose of the work is to remove the remaining VOC contamination within the overburden and upper bedrock beneath 70 Wesley. The cleanup objectives are the MOE Table B criteria.
- The work will be undertaken over a two month period beginning September 1999.

- The planned extent and depth of the remedial excavation encompasses the areas of the property where soil and groundwater quality did not comply with the MOE Table B criteria.
- Excavated soils will be moved to the Red Lands for determination of disposition, i.e., either offsite disposal or onsite reuse.
- Water which may accumulate in the excavation will be treated onsite or disposed of offsite by a licenced waste hauler.
- The health and safety plan developed for the first phase of work will be used for this second phase of work.
- Air samples will be recovered during the work to maintain an audit of local air quality with respect to VOC emissions.
- The excavation rate will be controlled to minimize VOC emissions.
- Wind speed and direction will be monitored continually during the work.
- A soil verification program will be undertaken to confirm that the cleanup objectives have been met. Soil samples will be recovered from the walls and floor of the excavation on a regular basis for vapour measurements and laboratory analyses. The excavation will be expanded, as required, to meet the cleanup objectives.
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Imperial Oil, Products and Chemicals Division
July 15, 1999
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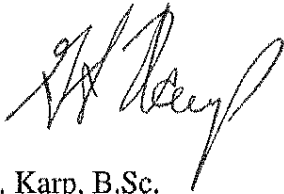
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Notes prepared by:

O'CONNOR ASSOCIATES ENVIRONMENTAL INC.



G.S. Karp, B.Sc.

Ronald C.E. McKee, P.Eng.

GSK:bn

Distribution: (11) Siep Nyholt



Task Definition and Assignments

Task# 357

Cross Reference: Prog 9

Task Key: 8000357

Imperial Oil, Port Credit South property Decommissioning

General Task Created On: Sep 29, 97 By: Budz, John

Office: Halton-Peel District
(Burlington)

Workplan Program/Activity: Ground Water, Impact Assessments

Task Location: Mississauga, City of

Received: Sep 29, 97 Due Date: Oct 17, 97 Medium Priority Completed:

Assigned	Assigned By	Assigned To	Required Product	Due Date	Completed
Sep 29, 97	Budz, John	Healy, Gerard M	Discuss with Hydrogeologist & provide comments	Oct 17, 97	

Keywords:

Notes: I have to use this hand copy because my computer is down again!

Time:

- ① Is DOC/PHEVOL 1st indicator of organic contaminant, and not necessarily the substance present.
- ② Should IOL be allowed to drop DOC and analyse for BTEX only.
- ④ Discussed with Deb Conrad: She has no problem with their proposal.

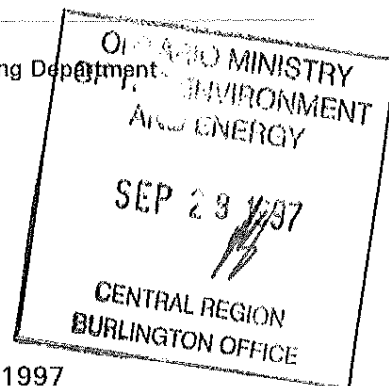


Imperial Oil

Imperial Oil
Products and Chemicals Division
10 Mississauga Road S.
Mississauga, Ontario
Canada L5G 4M6

M.E. Kelch
Manager
Marketing Services
Engineering Services

Marketing Department



Sept. 16, 1997

Mr. John Budz, P.Eng.
District Manager
Halton- Peel District
Ministry of the Environment and Energy
1182 North Shore Blvd., East
Burlington, Ontario
L7R 3Z9

RE: Port Credit - South Property Monitoring

Dear Mr. Budz:

Thank you for your August 6, 1997 letter of response concerning the minutes of our June 5, 1997 meeting.

I have forwarded your comments to Messrs. Walsh and Miasek along with a request for additional information to support the recommendation to eliminate DOC from future analytical programs.

Attached is the memo from Mr. Walsh to myself. I trust this additional information is sufficient to justify our rationale to eliminate DOC from future analytical programs. If you disagree with any portion of this letter or have any comments please notify the undersigned.

Yours very truly,


Siep J. Nyholt
Site Manager
Port Credit Surplus Refinery Site

cc: Paul Walsh - I.O.L., Sarnia Research
Peter Miasek - I.O.L.
Roger Bywater - I.O.L., Devon Estates

*Bob
note
Jerry*
*I am not completely
satisfied in this response.
Pls contact our hydrogeologist
& review results with him/her
& get his/her opinions. I
always thought
that DOC/
phenol was
1st indicator
of organic
contaminant
&
not
necessarily
the substances
present.*
*Get back to me in
w/o as I want
to determine if a
response is
necessary.*

MEMORANDUM

IMPERIAL OIL
PRODUCTS AND CHEMICALS DIVISION
- RESEARCH DEPARTMENT

TO: S.J. Nyholt

97-09-10

FROM: P.R. Walsh 

R41221

IMPERIAL OIL RESEARCH RESPONSE TO MOEE AUGUST 6, 1997 LETTER RE: PORT CREDIT SOUTH PROPERTY GROUNDWATER PERIMETER MONITORING PROGRAM

The following is the Imperial Oil Research response to questions put forward by Mr. John Budz in his letter dated August 6, 1997 regarding modification of the groundwater sampling plan at the Port Credit South Property. This response has been discussed with, and incorporates, comments from Peter Miasek, Imperial Oil Marketing and Engineering Services Technical Specialist.

It has been Imperial Oil Research experience at IOL refining sites, to collect both dissolved organic carbon (DOC) and phenols (4AAP) when monitoring groundwater for indication of organic contamination. These tests have the advantage of being low cost and non-chemical specific. If the DOC and phenols show an increasing trend over time with respect to background concentrations, more detailed regulated organic parameter analyses (i.e. BTEX, VOCs or PAHs) are conducted on the groundwater samples to determine if remediation is required. The detailed organic parameters are more specific to the source of the contamination and are usually more sensitive which allows a greater lead time in responding to the contamination.

Detailed groundwater sampling and analysis programs were conducted at the Port Credit South Property site between 1984 and 1992. The historical speciation of the groundwater contamination was reviewed in detail and BTEX was the only indicator required to define the areas of contamination. The environmental consultant (Golder) recommended that BTEX be monitored at all perimeter monitoring wells. In 1995, Imperial Oil Research recommended monitoring 5 wells (90-115, 92-320, 90-116, 92-322 and 92-318) for additional parameters (phenol, DOC, pH, conductivity and alkalinity) due to a "refining type" odour detected in the groundwater from monitor 92-322. These wells were monitored for these parameters twice more in 1996. None of the

parameters analyzed for were exceedingly high, and 92-322 was the only monitor that showed above background levels for phenols and DOC (approximately 30 ppm). However, the benzene concentration for this well was also significantly elevated above background concentrations.

It is Imperial Oil Research's opinion that since the potential source of the noted contamination has been identified as BTEX, the site is stable (i.e. barrier trenches in place and operational, no activities on site to produce a new contamination) and there exists remedial criteria for BTEX (none currently exist for DOC), the perimeter monitoring wells should be analyzed for BTEX only.

P. R. Walsh

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.c L.E. Black
 P.G. Miasek
 R.F. Bywater



Imperial Oil

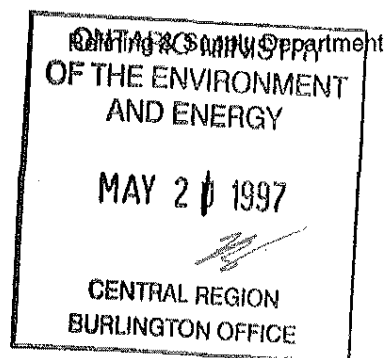
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**Imperial Oil
Products and Chemicals Division**

10 Mississauga Road S.
Mississauga, Ontario
Canada L5G 4M6

H.F. Wilkinson
Vice President & General Manager
Refining & Supply

J.R. Lynn
Manager
Refining Services



May 15, 1997

Ministry of the Environment & Energy
1182 North Shore Blvd. East
1st Floor
Burlington, Ontario
L7R 3Z9

Attention: Mr. Gerry Healy, Senior Environmental Officer

RE: Port Credit, Shale Pit Effluent Quality
Notification of Exceedance

Dear Mr. Healy,

This letter is being sent to confirm the original telephone notification of April 7, 1997. At that time we reported that our routine quarterly monitoring indicated an exceedance of TSS (Total Suspended Solids) of 50 mg/l vs. a spec of 15 mg/l. No other parameters were exceeded. As discussed, the sampling event followed several successive rain events which are felt to be the primary cause of the exceedance.

Since that time (04/30/97) we have re-sampled the Shale Pit discharge to confirm TSS levels are within spec. Results are attached.

Should you have any further questions or comments, please contact me at 278-5513.

Yours truly,

Siep Nyholt
Project Coordinator, Site Remediation

cc: R.F. Bywater - IOL, Manager, Site Remediation

moceltr3.doc

Gerry Healy
pls complete an
Occurrence Report for
this exceedance
indicating F&B closed
IEB - FYI.



5555 North Service Road
Burlington, Ontario, Canada L7L 5H7
Tel: (905) 332-8788
Fax: (905) 332-9169
Wats: (800) 668-0639

Certificate of Analysis

CLIENT INFORMATION

Attention: S. Nyholty/P. Miasek
Client Name: Imperial Oil Canada Ltd.,
Project: System Test
Project Desc: Port Credit/Fax to 905-278-2568

Address: 111 St. Clair Ave., West
Technology Department,
Toronto, ON
M5W 1K3

Fax Number: 416-968-8007

Phone Number: 416-968-4690

LABORATORY INFORMATION

Contact: Hilary Giles
Project: AN930012
Date Received: 97/04/30
Date Reported: 97/05/02

Submission No.: 7E0004

Sample No.: 015078-015079

NOTES:

'-' = not analysed '<' = less than Method Detection Limit (MDL) 'NA' = no data available

LOQ can be determined for all analytes by multiplying the appropriate MDL X 3.33

All organic data is blank corrected except for PCDD/F, Hl-Res MS and CLP volatile analytes

Solids data is based on dry weights except for biota analytes.

Organic analytes are not corrected for extraction recovery standards except for isotope dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DBD/DBF analytes)

Methods used by Zenon are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', Seventeenth Edition. Other methods are based on the principles of MISA or EPA methodologies. New York State: ELAP Identification Number 10756.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client and testing company in writing. Any and all use of these test results shall be limited to the actual cost of the pertinent analysis done. There is no other warranty expressed or implied. Your samples will be retained at Zenon for a period of three weeks from receipt of data or as per contract.

COMMENTS:

Certified by:

A division of PHILIP Analytical Services Corp.

Page 1

05/05/97

Zenon Environmental Laboratories - Certificate of Analysis

Page 2 of 2

			P.C.043097	P.C.043097
Client ID:			1	2
Zenon ID:			015078 97	015079 97
Date Sampled:			97/04/30	97/04/30
Component	MDL	Units		
TSS	2.0	mg/L	5.0	4.0

SHALE PIT
(CENTRE OF STREAM)

SHALE PIT
COMPOSITE FROM
CHAMBER



Imperial Oil

ONTARIO MINISTRY
OF THE ENVIRONMENT

NOV 27 1996

CENTRAL REGION
OAKVILLE OFFICE

Imperial Oil
Products and Chemicals Division
111 St. Clair Avenue West
Toronto, Ontario
Canada M5W 1K3

J.R. Lynn
Manager
Refining Services

Nov. 20, 1996

Mrs. Patricia Mullin
Councilor, Ward 2
City of Mississauga
300 City Centre Drive
Mississauga, Ontario
L5B 3C1

cut
GH
not f/b
SI HP MI PO 120

Dear Pat,

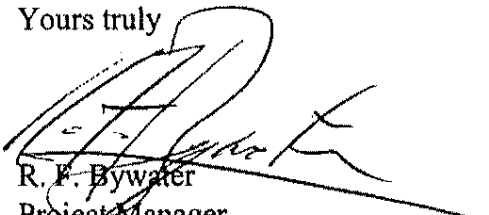
**Re: Port Credit Former Refinery North Property
Final Environmental Decommissioning Report**

It is with a great deal of satisfaction that I convey to you the attached Oct. 22, 1996 MOEE letter issued by Mr. John Budz which states that the Ministry is satisfied that the clean-up of all of the lands within our North Property has been carried out to meet the clean-up criteria for residential / park land lands.

A copy of the report referenced in the MOEE letter entitled " Environmental Decommissioning Report North Property, Port Credit Plant Volumes I, II, III, IV, and V " prepared by Golder Associates Ltd. has been sent to your office under separate cover. This report copy is intended for your reference and use by the City of Mississauga.

As you know the now completed clean-up of this 133 acre North Property includes the clean-up of a former 19 acre MOEE licensed waste disposal area known as the 'land farm'. As part of the anticipated next steps land reuse approval process and based on the requirements of Ontario's Environmental Protection Act - Section 46, Imperial intends to pursue Ministerial approval for reuse of the land farm former waste disposal area and request a final 'statement of completion' for the entire site from the Halton-Peel District office of the MOEE. Imperial expects to complete this final MOEE approval process as soon as is practical in 1997.

Yours truly


R. F. Bywater
Project Manager
Port Credit Surplus Site

Attach.

cc: John Budz, MOEE Halton-Peel District Office.
Margaret Marland, M.P.P.



Ministry
of the
Environment
& Energy

1182 North Shore Blvd. East
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Burlington, ON L7R 3Z9

Ministère
de
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et de l'Énergie

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Region

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Direct (905) 637-4161

Région du
Centre

Tel. (905) 637-4160
Fax (905) 637-4175
Directe (905) 637-4161

October 22, 1996

Imperial Oil
111 St. Clair Avenue West
Toronto, Ontario
M5W 1K3

Attention: Mr. Roger F. Bywater
Project Manager
Port Credit Site

Dear Mr. Bywater:

Staff have completed their review of the reports entitled; "Environmental Decommissioning Report North Property, Port Credit Plant Volumes I,II,III,IV and V", prepared by Golder Associates, July 26, 1996.

We wish to advise you at this time, that the studies carried out by Golder Associates Ltd., have been completed in accordance with Ministry requirements. As a result, based upon the findings of these reports, the Ministry is satisfied that the clean-up has been carried out to meet clean-up criteria for residential/parkland lands.

In accordance with the Ministry's letter of March 8, 1996, a "Statement of Completion" dealing with the suitability of the North Property for the intended use cannot be issued until the Section 46 approval has been issued for the landfarm portion of the North Property and all necessary caveats, if required, are registered on title.

On behalf of the Ministry, I would like to recognize the efforts, hard work, and determination of everyone involved in this lengthy, complex clean-up. Thank you, Roger, for your assistance and co-operation and please convey our thanks to your staff and Mr. David DuBois of Golder Associates for their assistance in bringing this project to a successful conclusion.

Yours truly


John Budz
District Manager
Halton-Peel District Office

cc: David DuBois, Golder Associates Ltd.

Ministry of
Environment
and Energy

Ministère de
l'Environnement
et de l'Énergie

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Fax (905) 637-4175

1182, boul. North Shore E
8 étage
Burlington ON L7R 3Z9
Tel. (905) 637-4150
Fax (905) 647-4175



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August 6 1997

Imperial Oil
Products and Chemicals Division
10 Mississauga Road S.
Mississauga, Ontario
L5G 4M6

Attention: Mr. Siep J. Nyholt
Site Manager
Port Credit Surplus Refinery Site

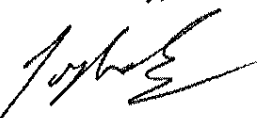
Dear Mr. Nyholt:

This is in response to your July 28, 1997 letter concerning the minutes of our June 5, 1997 meeting.

I have reviewed Mr. Walsh's recommendations and offer the following opinion regarding item 9 in the minutes and recommendation 4 in the report. As I mentioned in our meeting, where the source of contamination is organic in nature, the Ministry requests that DOC be included in analytical programs. I am not convinced that BTEX, in this particular case, is a more appropriate and sensitive indicator of groundwater contamination due to organics.

Therefore, unless Mr Walsh can provide additional information justifying why DOC can be eliminated from future analytical programs, I would ask that Imperial Oil continue to monitor for DOC.

Yours truly,


John Budz, P.Eng.
District Manager
Halton Peel District

JB/jb



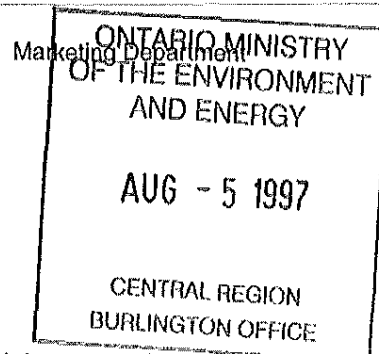


Imperial Oil

Imperial Oil
Products and Chemicals Division
10 Mississauga Road S.
Mississauga, Ontario
Canada L5G 4M6

M.E. Kelch
Manager
Marketing Services

Engineering Services



July 28, 1997

Mr. John Budz, P.Eng.
District Manager
Halton- Peel District
Ministry of the Environment and Energy
1182 North Shore Blvd., East
Burlington, Ontario
L7R 3Z9

Dear Mr. Budz:

The following meeting notes, including attachments, are intended to document our June 5, 1997 meeting discussions and mutual understandings between Imperial Oil and the Halton-Peel district office of the MOEE. If you disagree with any portion of these notes or have any comments, additions or omissions please notify the undersigned.

Subject: Port Credit Surplus Site

Meeting Location: Imperial Oil's offices located at 10 Mississauga Road

Attendees: MOEE: John Budz, Gerry Healy

IO: Roger Bywater, Peter Miasek, Siep Nyholt, Paul Walsh

O'Connor Associates (part time): Gary Karp, Ron McKee

Agenda:

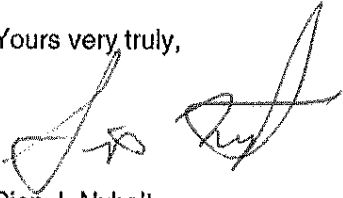
This meeting was initiated by Imperial Oil for the purpose of continuing to review progress and obtaining a mutual understanding regarding specific general site management initiatives related to the subject Port Credit (former Texaco refinery) surplus site.

General:

The meeting was divided into two parts. The first dealing with the status of various projects and programs as they relate to the management of the site. Minutes to PART I were compiled by O'Connor Associates and are attached as ATTACHMENT #1. See also ATTACHMENT #2, *Environmental Regulatory Compliance and Commitment Managing System* and ATTACHMENT #3, *PORT CREDIT SOUTH PROPERTY PERIMETER AND SHIP DOCK AREA 1996 GROUNDWATER MONITORING PROGRAM RESULTS AND 1997 MONITORING PROGRAM RECOMMENDATIONS*.

The second part (in the absence of O'Connor Associates) further discussed and reviewed project and site management issues with the MOEE. Minutes to PART II were compiled by Imperial Oil, Sarnia Research and are attached as ATTACHMENT #4.

Yours very truly,

A handwritten signature in dark ink, appearing to be 'Siep J. Nyholt', written over a horizontal line.

Siep J. Nyholt
Site Manager
Port Credit Surplus Refinery Site



LANDTACTIX INC.

3700 Steeles Avenue West, Suite 800 • Vaughan, Ontario L4L 8M9
Tel. (905) 850-6154 • Tor/Line 798-7254
Fax: (905) 850-6166

ONTARIO MINISTRY
OF THE ENVIRONMENT

FEB 04 1999

CENTRAL REGION
BURLINGTON OFFICE

January 28, 1999.

Attention - Mr. John Budz, District Manager

Ministry of the Environment

Halton/ Peel District

1182 North Shore Boulevard East, 1st Floor

Burlington, ON, L7R 3Z9.

Re: *Imperial Oil* - Port Credit,
North Property - 133 Acres,
& Associated *Trans-Northern Pipelines Inc.* Property,
Your File No. **SI-HP-MS-MS-120**

Mr. Budz -

As you may be aware, the above referenced property is now listed for sale.

Over the past week I have been conducting a review of the property in order to assess the potential for residential development on the site. I have reviewed both Golder's Associates Final Report, and Statements of Completion provided by you, to Devon Estates Limited and Trans-Northern Pipelines Inc..

The intention of this correspondence is to confirm that these Statements are sufficient, to allow residential development to proceed. Mr. Healey of your offices advised that they were sufficient, but that a written confirmation from you would be optimal.

In addition, I am writing to request confirmation that Section 46, of the Environmental Protection Act has been waived for the Landfarm Area. Disposal of wastes associated with the petroleum refining process ended in 1978, and required 25 year waiting period has not yet expired.

Your written response would be greatly appreciated.

Thank you in advance.

Sincerely,
Landtactix Inc.

Andrew Sorbara
Project Manager

*Both A
To ask & reply
- reply advising
that 1. original
has 46 approved
2. No further
documents will be
submitted by you.
- 15 day turnaround*



THE SORBARA GROUP

3700 Steeles Avenue West, Suite 800 • Vaughan, Ontario L4L 8M9

Tel: (905) 850-6154 • Toll Free 798-7254

Fax: (905) 850-6166

Web Site: www.sorbaragroup.com

E-Mail: info@sorbaragroup.com

THE SORBARA GROUP, through its various affiliates and associates, provides the business community with a full range of real estate services:

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- builder's risk policy
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- property management insurance packages
- life insurance and group benefit packages
- fire and comprehensive coverage

LANDTACTIX INC. Fax Transmission Cover Sheet

CONFIDENTIAL ☐

URGENT ☐

No. of Pages: 5
(Including this page)

Date: 28/Jan/99

TO:

Mr. John Budz

COMPANY:

Min. of Env't

CITY/COUNTRY:

Burlington, ON

FAX NUMBER:

1-905-637-4175

FROM:

Andrew Sorbara

TELEPHONE #:

(905) 850-8508, extension 272

SUBJECT

Imperial Oil Site

Port Credit

MESSAGE:

I have enclose correspondence

btw yourself and Imperial

Oil, Trans-Nor'n Pipelines

Original in Mail

Yes ☒

No ☐

(Please advise if fax is incomplete or illegible)

Confidentiality Caution

This message is intended only for the use of the individual or entity to which it is addressed and contains information that is privileged and confidential. If the reader of this message is not the intended recipient, or the employee or agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of the communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return the original message to us at the above address at our cost.

*Bole PA
note - this is
involving. The
statement of Burlington
shows the correct way
unilaterally which
we does he need.
We're not about to
give up developers
a letter.
Pls take time to copy
this guy's statement
to the statement.*

**LANDTACTIX INC.**

3700 Steeles Avenue West, Suite 800 • Vaughan, Ontario L4L 8M9

Tel. (905) 850-6154 • Toll/Line 798-7254

Fax: (905) 850-6166

January 28, 1999.

Attention - Mr. John Budz, District Manager

Ministry of the Environment

Halton/ Peel District

1182 North Shore Boulevard East, 1st Floor

Burlington, ON, L7R 3Z9.

Re: *Imperial Oil - Port Credit,*
North Property - 133 Acres,
& Associated Trans-Northern Pipelines Inc. Property,
Your File No. SI-HP-MS-MS-120

Mr. Budz -

As you may be aware, the above referenced property is now listed for sale.

Over the past week I have been conducting a review of the property in order to assess the potential for residential development on the site. I have reviewed both Golder's Associates Final Report, and Statements of Completion provided by you, to Devon Estates Limited and Trans-Northern Pipelines Inc..

The intention of this correspondence is to confirm that these Statements are sufficient, to allow residential development to proceed. Mr. Healey of your offices advised that they were sufficient, but that a written confirmation from you would be optimal?

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Your written response would be greatly appreciated.

Thank you in advance.

Sincerely,
Landtactix Inc.

Andrew Sorbara
Project Manager

*What is he talking about! Has he
never gotten 46 approval from
Erow who he should be dealing
with.*

*it's making my signature &
of my sisterhood
is it not?*

*I don't think Jerry
said this!*

Ministry of
The Environment

1162 North Shore Blvd. E.
1st Floor
Burlington ON L7R 3Z9
Telephone: (905) 637-4150
Facsimile: (905) 637-4175

Ministère de
l'Environnement

1162, boul. North Shore E
1 étage
Burlington ON L7R 3Z9
Téléphone: (905) 637-4150
Télécopieur: (905) 637-4175



January 25 1999

Devon Estates Limited
111 St. Clair Avenue West
P.O. Box 4029, Terminal A
Toronto, Ontario
M5W 1K3

Attention: Mr. Roger F. Bywater
Property Manager

Dear Mr. Bywater:

Re: Statement of Completion
Imperial Oil - Port Credit North Property
District File: SI-HP-MS-MS-120

This letter concerns the Ministry's review of your site remediation reports entitled "Environmental Decommissioning Report, North Property, Port Credit", Volumes I, II, III, IV and V dated July 17, 1996 prepared by Imperial's consultant, Golder Associates Ltd., and subsequent letter dated November 24, 1998 requesting issuance of a Statement of Completion for the entire Port Credit North property site.

The Ministry wishes to acknowledge, at this time, receipt of documents confirming the registration of the Port Credit Land Farm Section 46 Approval in the Land Registry Office at Brampton as Instrument No. LT1886139.

Based upon the information contained within the above referenced reports and site observations made by staff from the Ministry's Halton-Peel District office during its verification of the site clean-up, the Ministry of the Environment is satisfied that the clean-up has been carried out to meet the clean-up criteria for residential and/or parkland land use. Furthermore, the Ministry is satisfied that the studies undertaken by Imperial's consultant have been carried out in accordance with Ministry requirements.

.../2

Ministry of
Environment
and Energy

Ministère de
l'Environnement
et de l'Énergie

1182 North Shore Blvd. E.
1st Floor
Burlington ON L7R 3Z9
Tel. (805) 637-4150
Fax (805) 637-4175

1182, boul. North Shore E.
1^{er} étage
Burlington ON L7R 3Z9
Tel. (805) 637-4150
Fax (805) 637-4175



May 8, 1997

Trans-Northern Pipelines Inc.
45 Vogell Road, Suite 310
Richmond Hill, Ontario
L4B 3P6

Attention: Mr. Gary C. Robinson, Manager
Environmental, Health & Safety

Dear Mr. Robinson:

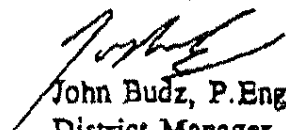
This is in response to your consultant's, Marshall Macklin Monaghan, submission of March 12, 1997, regarding the remediation of the former Port Credit Station site.

Based on your consultant's findings and our observations of November 6, 1996, we are satisfied that the remediation of the above mentioned site has been completed to the Ministry's satisfaction. As the clean-up was carried out in accordance with the Ministry's January 1989, "Guidelines for Decommissioning and Clean-up of Sites in Ontario", the subject land has been restored for the intended residential use. It should be noted that this statement in no way amounts to the Ministry of the Environment and Energy (MOEE) accepting liability for any future environmental problems that may arise at this site.

The Ministry acknowledges that the remediation has been thorough and reasonable based on site specific information provided, and based on that information the Ministry is not aware of any reason associated with the property's former use why this property should not be used for residential purposes.

For your information, the MOEE has no statutory requirements on the issuance of letters of acceptance/approval for restoration work. (Anyone who does not wish to act in reliance on the aforementioned report findings will have to engage their own consultants to confirm the adequacy of the clean-up.)

Yours truly,


John Budz, P.Eng.
District Manager
Halton-Peel District

JB/jb



Central Region

Record of Verbal Transaction

File No.

[illegible]

Ministry of
The Environment

1182 North Shore Blvd. E.
1st Floor
Burlington ON L7R 3Z9
Telephone: (905) 637-4150
Facsimile: (905) 637-4175

Ministère de
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1 étage
Burlington ON L7R 3Z9
Téléphone: (905) 637-4150
Télécopieur: (905) 637-4175



*BAK
DB →
GHS att.
not 1/6
(SI-MP-M3-M5-120)
Esso's Port Credit Site*

November 30 1998

Golder Associates Ltd.
2180 Meadowvale Boulevard
Mississauga, Ontario
L5N 5S3

Attention: Mr. David DuBois, P. Eng.
Principal

Dear Mr. DuBois:

This will confirm that 3rd party review of the Site Specific Risk Assessment prepared for the Waterfront walkway on Imperial Oil's South property is not required.

Since the remedial plans for this site were developed and approved under the 1989 Guideline, a 3rd party review required by the Ministry's 1996 Guideline is not applicable.

Should you or City of Mississauga officials wish to discuss any aspect of the above noted Guidelines, please do not hesitate to contact me at (905)637-4151.

Yours truly,

John Budz
District Manager
Halton-Peel District

Golder Associates Ltd.

2180 Meadowvale Boulevard
Mississauga, Ontario, Canada L5N 5S3
Telephone (905) 567-4444
Fax (905) 567-6561



October 23, 1998

971-1341

Ministry of Environment
1182 North Shore Blvd. East
1st Floor
Burlington, Ontario
L7R 3Z9

Post-It [®] Fax Note	7671E	Date	10/30/98	# of pages	1
To	JOHN BUDZ	From	DAVID DUBOIS		
Co./Dept.	MOE	Co.	GOLDER		
Phone #		Phone #			
Fax #	1-905-637-4175	Fax #	905-567-6561		

Attention: Mr. John Budz

**RE: SITE-SPECIFIC GUIDELINE DEVELOPMENT
WATERFRONT WALKWAY, SOUTH PROPERTY
CITY OF MISSISSAUGA**

Dear Sirs:

It is our understanding that the guideline development work for this project was to be carried out in accordance with the procedures detailed in the 1989 MOE Clean-up guidelines since commencement of the work pre-dated the development of the revised 1996 MOE Guidelines.

In view of this, we understood that our report submission would be subjected to MOE review and that no 3rd party review would be required.

Recent discussions with the City of Mississauga indicate it is their understanding that 3rd party review would be still required.

Assuming that all technical modifications/revisions can be made and resolved to satisfy the MOE comments, we seek clarification that this report will not require 3rd party review to be organized by us.

Thanking you for your assistance in this matter.

Yours truly,

GOLDER ASSOCIATES LTD.

David DuBois, P.Eng.
Principal

DDB/db

s:\secret\m-d\october\1300\711341\j1.doc



O'CONNOR ASSOCIATES ENVIRONMENTAL INC.

2150 WINSTON PARK DRIVE, SUITE 200 WEST OAKVILLE ONTARIO L6H 5V1 TEL: (905) 829-3330 • FAX: (905) 829-3404

July 21, 1997

10-2936.11,4

MEETING NOTES - PART I

DATE: 97/06/05

LOCATION: Imperial Oil
10 Mississauga Road South
Mississauga, Ontario

RE: Former Texaco Refinery
PORT CREDIT, ONTARIO

ATTENDING:	John Budz	Ontario Ministry of Environment & Energy (MOEE)
	Gerry Healy	MOEE
	Roger Bywater	Imperial Oil (IOL)
	Peter Miasek	IOL
	Siep Nyholt	IOL
	Paul Walsh	IOL
	Ron McKee	O'Connor Associates Environmental Inc. (OAEI)
	Gary Karp	OAEI

TOPICS DISCUSSED

1. Roger began the meeting with a brief review of the status of the work undertaken over the past year since the last meeting. The major activities concerned the North Property and the preparation for its reuse. The completion of the soils work at 70 Wesley is pending IOL's access to the property.

Environmental Compliance Status

2. Siep presented a table entitled *Environmental Regulatory Compliance and Commitment Managing System* (attached). The table outlines IOL's system of managing regulatory compliance issues for the Port Credit site.
3. Roger noted that in a sample collected during the First Quarter of the 1997 the TSS concentration in the Shale Pit effluent exceeded the criterion. This event had been reported to the MOEE.
4. John commented that they were unsuccessful in obtaining the old Certificate of Approval concerning the waste water system operated by Texaco.

5. John asked if IOL had plans to dispose of the PCBs currently stored on the South Property, now that commercial disposal facilities are available. Siep responded that IOL was reviewing disposal options and considering a plan to dispose of the PCBs by the First Quarter of 1998.

South Property Status

6. Siep outlined the current status of the South Property monitoring and water sampling programs. IOL Sarnia Research Department and OAEI undertook the program in 1996 and 1997, respectively.
7. Paul commented that additional trenching was undertaken last spring. The purpose of the work was to enhance the existing trench network and create a complete barrier to the possible migration of contaminants to the future Walkway and Lake Ontario. The trench system now extends along the south and east sides of the South Property. Roger noted that this work was undertaken as part of the planned Walkway specification to address the 'Duty of Care' issue.
8. Paul stated that the monitoring and sampling work for third and fourth quarters of 1996 included 'perimeter wells' and wells within the former 'Ship Dock Area.' Groundwater samples recovered from the wells were analysed for benzene, toluene, ethyl benzene and xylenes (BTEX). Samples from the Ship Dock Area were also analysed for total phenols, dissolved organic carbon (DOC), pH, conductivity and alkalinity.

The results are presented in a report (attached) which also describes the hydrogeology of the site and gives an interpretation of the collected data. BTEX continued to be detected in some wells below non-potable water criteria, but concentrations continued to fluctuate within levels previously noted and, overall, no significant hydrochemical changes were observed.

As well, with respect to the other tests, (phenols, DOC, pH, conductivity and alkalinity), the results indicated no significant impact.

John asked if the BTEX results were within the Table B criteria (1997 MOEE *Guideline For Use At Contaminated Sites In Ontario*), and was Table B protective of Lake Ontario. Paul responded by saying that the results were well within the Table B criteria. Peter stated that the Guideline indicates these criteria were developed to take into account ecological pathways, and thus were protective of Lake Ontario.

9. Paul addressed the key recommendations from his report:
 - Once the Walkway is completed, monitoring well elevations should be resurveyed. Water table elevations should be measured in the trenches as well as the boreholes in the future.
 - The monitoring and sampling frequency should be reduced from quarterly to a semi-annually, and groundwater analyses should comprise only BTEX.

Paul explained that the rationale for reduced monitoring was based on: monitoring results; the contaminated soil has been removed from the area of interest; the trench system now forms a continuous barrier; and any existing 'downgradient' impact is residual.

Furthermore, with respect to the proposed revised analytical program, BTEX is seen as a more appropriate and sensitive indicator than phenols or DOC when considering the type of contamination and the range of concentrations (ppm). *concerns*

10. Gary highlighted the OAEI findings concerning the First Quarter 1997 monitoring and sampling program (report attached). BTEX was either not detected or was detected at very low levels within the wells where BTEX was previously detected.
11. John asked if there was downgradient migration of contamination. Paul responded by saying that the chance for downgradient migration is minimal now that the trench system is in place. Furthermore, with respect to the Ship Dock area, Peter and Paul explained that the bedrock topography forms a natural barrier to downgradient migration, and that natural attenuation/remediation will take place to counter the possible migration of contamination.
12. John commented that he would review Paul's and OAEI's reports and comment on Paul's recommendations.
13. Siep stated that IOL will continue the monitoring/sampling program, and after 1 year IOL will provide a summary report with recommendations regarding future monitoring/sampling frequency.

Marketing Area

14. Gary presented an overview of site activities over the past year:

70 Wesley

- Monitoring of all on-site wells and sampling of selected wells was undertaken on three occasions.

Park Street

- The Access Trench was backfilled with granular material. The trench was tied into the Dewatering Trench to enhance drainage of contaminated groundwater on the property.
- The recovery well (PW6) located in the Dewatering Trench continued operation.
- Monitoring of all on-site wells and sampling of selected wells were undertaken on three occasions.

- The average VOC concentrations in most Green Lands and Orange Lands monitoring wells continued to decrease over the past year.
- Over the past two monitoring/sampling events, TCE concentrations in all Green Lands monitoring wells have not exceeded the criterion.

16. John asked if there were to be any changes to the monitoring/sampling frequency. Siep responded by saying that no changes were planned.

We trust that the foregoing adequately represents the topics of discussion. If you have any questions or concerns, please do not hesitate to contact the undersigned.

Notes prepared by:

O'CONNOR ASSOCIATES ENVIRONMENTAL INC.



G.S. Karp, B.Sc.

Ronald C.E. McKee, P.Eng.

GSK:klm

Distribution: (1) Roger Bywater
(1) Peter Miasek
(1) Siep Nyholt

W:\2936\293611\29361147.M01

Environmental Regulatory Compliance & Commitment Managing System

Site: Port Credit (as of 5/12/97)BY: S.J. Nyholt

Permit or Regulation	Responsibility	Reporting Requirements	Due Date	Required Data	File Location (includes procedures)	Date Submitted	Notes: Revision Date:
Site No.302-86A006 PCB Storage	SJN	Annual MOEE	Jan.31	confirmation of monthly inspections	P.C. NB103F	Jan.27/97 (last)	Monthly inspections documented
PTTW 94-P-3017 S.P. P&T take water	SJN	Changes or Exceedances (exception based) MOEE	Changes within 30 days, exceedances forthwith	daily volumes >50m ³	P.C. NB119F	N/A	Expires 3/31/04
Peel 90-90 & 96' site specific criteria S.P. P&T	SJN	Semi-Annual - volumes (qual. data on file) MOEE	July 31 & Jan.31	Meter readings (qual. data on file)	P.C. NB119F	Jan.14/97 (last)	Expires 12/31/97
Peel 90-90 & 96' site specific criteria Mktg. Area P&T	SJN	Semi-Annual - volumes (qual. data on file) Region of Peel	July 31 & Jan.31	Meter readings (qual. data on file)	P.C. NA276F P&T S.P. -96'	Jan.14/97 (last)	No expiry
PTTW 92-P-3030 Take water from Lake Ontario	SJN	Changes or Exceedances (exceptn. based) MOEE	Changes within 30 days, exceed. forthwith	daily volumes	P.C. NA288F	N/A	Expires 3/31/02
Registration ON1315723 Subject Waste Generator Reg.	SJN	As and when waste generated (manifest) MOEE	per event	as required on Manifest	P.C. NA 288F	Date of reg. 2/3/92	
"Effluent Quality Objectives for Petroleum Refineries" Shale Pit - Effluent	SJN	Per 6/3/96 spec rpt. exceedances forthwith, MOEE	Qrtly. (internal, on file)	spec. re: 6/3/96 MOEE ltr.	P.C.	Held on file	Q1/97' TSS exceedance, rpt.'d April 7 to MOEE
OTHER:							
Mktg. Area P&T performance	SJN	Exception/ progress mtg. basis MOEE	Qrtly. (on file)	quality/status	P.C. Mktg. Monit. - 96'		
South Property perimeter monitoring	SJN	Exception/ progress mtg. basis MOEE	Qrtly. (on file)	quality/status	P.C.		
Abnormal discharge to air, water or ground	SJN	Potential for adverse impact to be rpt'd forthwith, MOEE	Forthwith	analytical results, cause & effect (where applicable)	P.C.	n/a	exception based, e.g. equip. leaks, excavation discoveries etc.

MEMORANDUM

IMPERIAL OIL
PRODUCTS AND CHEMICALS DIVISION
• RESEARCH DEPARTMENT

TO: R.F. Bywater
P.G. Miasek

97-05-26

FROM: P.R. Walsh 
R.W. Scarrow

R40719

**PORT CREDIT SOUTH PROPERTY PERIMETER AND SHIP DOCK AREA 1996
GROUNDWATER MONITORING PROGRAM RESULTS AND 1997 MONITORING
PROGRAM RECOMMENDATIONS**

SUMMARY

A groundwater monitoring program for the Port Credit South Property was recommended by Sarnia Research (Research memorandum R41336, 96-10-01) and approved by the Site Remediation Group. The groundwater program consisted of monitoring selected eastern perimeter, shoreline and ship channel piezometers two times in 1996 for benzene, toluene, ethylbenzene and xylenes (BTEX). Monitoring wells 90-115, 90-116, 92-322, 92-320 and 92-318 were also analyzed for total phenols, dissolved organic carbon (DOC), pH, conductivity and alkalinity. The location of the selected monitoring wells is shown in Figure 1. This memorandum presents the results from the August and November 1996 groundwater sampling carried out by Imperial Oil Research at the Port Credit South Property site. Also included is a tabular presentation of the August and November 1996 results with the historical results for these monitoring wells for comparison purposes.

SITE DESCRIPTION - GEOLOGY/HYDROLOGY

Local Geology

Information provided in a historical report (Golder Associates Draft Report 861-1711, December, 1990) states that the subsurface conditions in the Port Credit area generally consist of thin glacial drift overlying Paleozoic sedimentary bedrock deposits (Sharpe, 1980). The bedrock consists of shale, inter-bedded dolomitic siltstone and minor limestone which were deposited in shallow marine seas in the Ordovician Era about 450 million years ago. These sediments, which have been called the Georgian Bay Formation, are about 250 m thick and are almost flat-lying (Sharpe, 1980). Karrow and Easton (1990) noted the presence of stress-relief pop-up features in the local bedrock. Overburden deposits in the refinery area were mapped by Karrow and Easton (1990) as deltaic and lacustrine deposits, overlying a clayey silt till referred to as the Halton Till. The Halton Till represents sub-glacial deposits from glaciers advancing northeasterly out of the

Lake Ontario basin. Overlying lacustrine sediments were deposited by a former glacial lake which occupied the present Lake Ontario Basin following the retreat of the glaciers from the area. The former shoreline for this lake is located near Dundas Street in the Mississauga area.

Soil Physical Conditions

Previous soil investigations carried out by environmental consultants have focused primarily on the overburden soils with a few investigations on the upper, weathered portion of the bedrock. Based on the results of these investigations, the overburden primarily consists of two components, fill and glacial till. The fill is variable in composition with the major component being silty sand to clayey silt. This structure was most likely due to previous site excavations and grading of the site. The infilling at the former ship dock (now referred to as the ship channel area) consists primarily of concrete rubble and fill obtained from the demolition of the South Property buildings. Elsewhere on the property, the silty sand to clayey silt fill contains a variety of materials including bricks, cinders, asphalt chunks, shale fragments, etc. These materials occasionally occur as discrete layers or zones within the fill, but more often, are dispersed throughout the fill.

The depth of fill is also variable, depending on the prior use of a particular area. The greatest depths of fill occur in the ship channel area and in the shale pit area where previously excavated test pits and boreholes indicated fill depths of as much as 7 metres and 10 metres, respectively. However, most areas of the South Property exhibit fill thicknesses of less than 2.5 metres.

The naturally occurring soil at the site consists of glacial till, which varies in gradation from silty clay to clayey silt, and occasional occurrences of silts and sands above the till. The till thickness, where encountered in the boreholes and test pits, was generally less than 2 metres.

Shale bedrock occurs beneath the fill and the glacial till. In general, the upper 1 - 1.5 metres of the shale is highly weathered.

Physical Hydrology

The occurrence of shallow groundwater at the Port Credit south property has ranged from a depth of 0.5 - 4.9 metres, with an average depth of 2.5 metres from grade. These averages are obtained from 1993, 1994, 1995 and 1996 groundwater monitoring programs for perimeter wells. The occurrence of deep (bedrock) groundwater for the six bedrock well locations (upgradient and downgradient wells) has ranged from a depth of 1.9 - 6.6 metres, with an average depth of 3.9 metres from ground surface. The average depth was obtained from measurements taken during the 1992 monitoring program and also includes the water levels from monitoring well 90-216, which were measured in November 1995. Based on the water level measurements collected since 1985 in the south property, horizontal hydraulic gradients in the "shallow" and "deep" groundwater zones are directed towards Lake Ontario (a general southward direction). However, several man-made features (including the shale pit and groundwater extraction trenches) affect localized groundwater flow directions. Vertical hydraulic gradients between overburden and bedrock monitoring wells at the south property are generally downward. A horizontal overburden groundwater flow velocity of 0.1 - 7 metres per year (~0.5 - 20 feet per year) southward toward Lake Ontario has been estimated by Golder Associates based on an average

horizontal hydraulic gradient of 0.02, an average hydraulic conductivity of the shallow overburden soils of 6.36×10^{-5} cm/s and an effective porosity of 0.3 for the shallow soils.

FORMER SHIP DOCK AREA BENZENE CONTAMINATION

In a letter dated June 18, 1996, the Ontario Ministry of Environment and Energy (MOEE) indicated that Imperial Oil should try to determine the vertical and lateral extent, and the source of BTEX contamination in this area. Monitoring events have shown benzene concentrations of 72 - 170 ug/L at monitoring well 92-322, while neighbouring piezometers showing either a non detect or less than 10 ug/L benzene concentration (92-318). By combining the recent monitoring data with the historical groundwater data and site hydrogeological data, an estimate of the lateral and vertical dissolved plume extent can be determined along the eastern perimeter of the Port Credit site South Property. The first step in delineating the contamination is to identify the probable source of the contamination. Historical data indicate that the benzene is the sole contaminate in the ship dock monitoring wells and is not accompanied with typically associated toluene, ethylbenzene and xylene contamination. During an assessment in 1982, a high concentration of benzene was discovered in a borehole in the north east portion of the tank farm located on the South Property. Subsequent analyses in 1984 through 1986 confirmed the existence of a small zone of dissolved benzene at concentrations up to 400,000 ug/L. It should be noted that no non aqueous phase liquid (NAPL) was found during these investigations. A leak in former tank TK226 (contained BTX feedstock from the Nanticoke refinery) was identified as the most likely source. The location of this former tank is west of recovery trench C. This is most likely the source of the dissolved benzene concentrations found in monitoring wells 92-322 and 92-318 since these wells are hydraulically downgradient from this zone. Due to the greater solubility of benzene, it would be expected that the benzene would have reached this area before the less soluble toluene and xylene components. The installation of the barrier trenches would prevent any further migration of the other components thus limiting the contamination to what was present in the soil pore volumes downgradient of the trenches.

Data from monitoring wells 90-109, 90-111, 90-115, 92-322, 90-116, 92-318, 92-320, and 92-321 were used to delineate the benzene plume in the vicinity of the former ship channel area. Monitoring wells 90-109, 90-111, 90-115, 92-320, and 92-321 are in an approximate straight line along the eastern perimeter of the South Property (see Figure 1 for well locations). Monitoring wells 92-322, 90-116, 92-318 are located at various distances west of this line but are located downgradient of the barrier trench system. The well construction, geology and recent water level data for these wells is shown in Figure 2. Geology data from a historical borehole (90-113) located immediately south of 92-321 was included to determine the shale bedrock depth for the area in the vicinity of monitoring well 92-321.

The monitoring wells along the eastern perimeter and in the ship dock area were completed in the overburden till and into the top weathered section of the shale bedrock (except for 92-318 where no native till was found). The approximate inferred shale bedrock surface for the eastern perimeter wells is shown in Figure 2. This bedrock surface is much shallower than the shale bedrock surface for monitoring wells 92-322 and 92-318. Monitoring well 92-322 was not advanced to bedrock but due to the depth of the native till and the close proximity to 92-318, it can be assumed the shale bedrock depth is deeper than the perimeter wells, if not similar to 92-318.

The presence of the shallow shale bedrock surface along the eastern perimeter may explain the isolated occurrence of the dissolved benzene contamination in monitoring well 92-322. It has been proven that a dissolved organic plume is typically stratified in the water table and migrates downward as the plume travels horizontally. Site hydrology information also indicates that vertical hydraulic gradients between overburden and shallow bedrock monitoring wells at the south property are generally downward. As the benzene plume, traveling in the overburden, would meet this shallow shale bedrock surface (having a lower hydraulic conductivity), the majority of the dissolved plume would remain in the overburden till and continue to travel in a horizontal path parallel to the shallow bedrock surface. Monitoring well 92-318, immediately downgradient of 92-322, indicates that the native till in this area has been excavated and replaced with fill. The hydraulic conductivity of the fill is greater than the native till thus it would also be expected that the preferential flow would be from monitoring well 92-318 towards monitoring well 92-322. However, as indicated above, benzene levels in monitoring well 92-318 were 10-20 times lower than those in monitoring well 92-322. It appears that the contamination is being intrinsically remediated and significant contamination would not be expected to be found downgradient of monitoring well 92-318. Furthermore, monitoring well 90-116, approximately 20 metres east of monitoring well 92-322 continues to show non detect benzene results.

In conclusion, the perimeter trench system appears to be cutting off any new migration of contamination to the ship dock area. The residual benzene contamination downgradient of the trenches is not approaching the South Property eastern perimeter and is being contained/intrinsically remediated in the vicinity of monitoring wells 92-322, 92-318 and 90-116.

SAMPLING PROTOCOLS

The monitoring wells 90-109, 90-111, 90-115, 92-320, 90-116, 92-322, 92-318, 92-321, 90-212, 92-314, 90-218, 92-309, 90-217, 92-325, 90-211, 92-324, and 90-210 were identified for the 1996 groundwater monitoring program. For the summer sampling event, the selected monitoring wells were purged of standing groundwater on August 29, 1996 and samples were subsequently collected on September 4, 1996. For the fall groundwater sampling event, the selected monitoring wells were purged and sampled on October 25, 1996 and November 1, 1996, respectively. Prior to purging of the wells, the water level in each monitoring well was measured using a Solinst water level meter equipped with a stainless steel probe. Only the probe was allowed to come in contact with the well water. In order to prevent cross contamination, the probe was rinsed between well measurements with distilled water. If free product was encountered, the probe was rinsed first with methanol, then followed by a distilled water rinse. Field observations from the purging and sampling of the wells, including groundwater depths are provided in Attachment 1.

Groundwater was purged and sampled using dedicated Waterra Model D-25 inertial pumps and semiflexible, 16 millimetre outside diameter, high density polyethylene tubing. During purging of the groundwater wells, each of the monitoring wells was purged until it became dry or until a volume equivalent to three standing well volumes was removed. The purged water was collected in a pail and the volume of water removed was recorded.

Groundwater samples were collected directly from the polyethylene tubing into laboratory prepared bottles provided by Philip Analytical Services (formerly Zenon, Burlington, Ontario), with the appropriate preservative, as required. The chemical analyses for the 1996 monitoring program were performed by Zenon under direct contract to Imperial Oil Products and Chemicals Division. The parameter list was pH, conductivity, alkalinity, total phenolics, dissolved organic carbon (DOC), and benzene, toluene, ethylbenzene, and total xylenes (BTEX).

The samples were recorded on a chain of custody form and placed in coolers with ice packs for transport directly to the Philip laboratory where they were delivered on the same day. Groundwater samples for DOC were filtered in the laboratory by Philip prior to analysis.

RESULTS

The samples collected were analyzed for BTEX (by GC/MS), DOC, total phenolics (by 4AAP method), pH, conductivity, and alkalinity. The results of the groundwater analysis for the summer and fall sampling events are shown in Table 1 and Table 2 respectively. As part of the Imperial Oil contract with Zenon laboratory, a number of quality assurance/quality control (QA/QC) samples were analyzed. These QA/QC analyses include a method blank, trip blank, duplicate analysis and matrix spike analysis. The QA/QC results for both sampling events are provided in Attachment 2. A copy of the raw data is included in Attachment 3.

A comparison of the current analytical groundwater results to the historical values, shown in Tables 3 to 7, indicates the current results to be generally similar to historical results for all parameters with the following exceptions:

Eastern Perimeter wells

- the total xylene concentration for monitor 90-111 was not detectable for the November 1996 sampling event which is consistent with historical measurements. The concentration observed for this monitor during the September 4, 1996 sampling event (1.3 ug/L) was only 2.5 times the method detection level and may have been a one-time occurrence (similar to the January 1994 detection of total xylene in monitor 90-115). These random concentrations of total xylene are significantly below the 5600 ug/L Table B criteria.

Ship Dock Area wells

- the benzene concentration for the September 4, 1996 monitoring event for monitors 92-322 and 92-318 (170 and 16.7 ug/L, respectively) were the highest concentrations recorded to date for each of these two monitors. The benzene results for these two monitoring wells was slightly lower for the November 1, 1996 sampling event (150 and 9.0 ug/L, respectively). These values are still below the Canadian Water Quality Guidelines - Aquatic Life (CWQG-AL) and Table B Criteria for benzene. As discussed earlier, this contamination is believed to be residual from the time before the perimeter trenches were installed, and appears to be intrinsically remediating. The groundwater monitors immediately downgradient of these wells show non-detect concentrations for benzene.

Southern Perimeter wells

- the total xylene concentration for monitor 90-212 was not detectable for the November 1, 1996 sampling event which is consistent with historical measurements. The concentration observed for this monitor during the September 4, 1996 sampling event (0.7 ug/L) was only 1.4 times the method detection level and may have been a one-time occurrence. These random concentrations of total xylene are significantly below the 5600 ug/L Table B criteria.
- a non-detect benzene concentration was noted for monitor 92-309. This is consistent with historical measurements except for the one-time detection of 0.7 ug/L recorded in November 1995.
- the benzene concentrations measured during both sampling events for monitor 90-217 (9.7 ug/L and 18 ug/L, for the September and November events, respectively) were the highest concentrations recorded to date for this monitor, but are significantly lower than the CWQG-AL and Table B Criteria.
- the benzene concentrations measured during the November 1, 1996 monitoring events for monitor 90-211 (350 ug/L) was the highest concentration recorded to date for this monitor. The toluene, ethylbenzene and total xylene results were less than detection, however, due to the large dilution required for the 350 ug/L benzene concentration, the detection limits had to be increased. The concentrations would be expected to be similar (i.e. less than 10 ug/L) to historical measurements. The benzene concentration measured in this monitor during the September 4, 1996 sampling event was 200 ug/L, which was the highest concentration recorded for the previous four measurements (December 1994 through November 1995). However, benzene measurements of 210 ug/L and 200 ug/L were recorded for this monitor in June 1992 and April 1993, respectively. It should also be noted that the monitoring wells immediately adjacent to 90-211 continue to show non detect results for benzene.

General Results

- all parameter results for the monitoring wells measured were below the Aquatic Life Canadian Water Quality Guideline (CWQG-AL) with the following exceptions:
 - monitor 90-211 benzene concentration for the November 1, 1996 sampling event (350 ug/L), exceeded the CWQG-AL criteria of 300 ug/L
 - monitor 92-322 total phenolics concentration for the September 4, 1996 and November 1, 1996 sampling events (0.006 mg/L and 0.007 mg/L, respectively) exceeded the CWQG-AL criteria of 0.001 mg/L
- all parameter results for the monitoring wells measured were below the Ontario Ministry of Environment and Energy, Guideline for Use At Contaminated Sites In Ontario, Non-Potable Groundwater Criteria.
- monitoring well 92-322 showed elevated concentrations for DOC, conductivity and alkalinity when compared to the downgradient wells

During the period February 14 to March 18, 1996, additional construction of extraction trenches at the south property site were completed. The location of the new and previously

constructed trenches are shown in Figure 1. The completed trenches now form an overlapping continuous method to prevent potential dissolved and phase separated contamination from passing by the trenches, thus providing a complete barrier between the site and Lake Ontario. The dissolved organic and inorganic contaminant concentrations found in monitoring wells 92-322, 92-318, 90-217 and 90-211 may be due to residual contamination remaining in the soil pore spaces downgradient from the trenches. The increase in these concentrations may be due to disruptions in the soil porosity due to related construction and testpitting for the extraction trenches and the Waterfront Trail investigations. With the extraction trenches in place in operating efficiently, it would be expected that these low level organic and inorganic contaminants should decrease in concentration.

RECOMMENDATIONS

Based on the results of the 1996 South Property groundwater monitoring program and the historical data, the following are the recommendations for the 1997 South Property groundwater monitoring program.

- upon completion of the Waterfront Trail (including landscaping of the area), the elevations for the perimeter and ship channel groundwater monitoring wells and trench water elevation measuring device should be surveyed.
- track the operation of the trench pumping system to ensure the operation is consistent to the design of these trenches (i.e. mechanical availability, water level in trench vs. nearby boreholes piezometric levels)
- monitor selected eastern perimeter, shoreline and ship channel piezometers two times in 1997 (spring and fall) for BTEX.
- based on the results of organic and inorganic analyses conducted on groundwater samples from monitoring wells 90-115, 92-322, 90-116, 92-320 and 92-318, there is no current need to continue monitoring these wells for total phenols, DOC, pH, conductivity and alkalinity during the two 1997 sampling events.
- the groundwater results for the 1997 groundwater monitoring program should be prepared in a report after each sampling event followed by a summary report at the year end which would include details on the site geology and hydrology.
- the summary report for the 1997 South Property groundwater monitoring program should include recommendations for the 1998 monitoring program.
- the decision tree criteria, currently being used for Imperial Oil contaminated sites with non-potable groundwater (shown in Attachment 4), was applied to evaluate potential groundwater impact on the South Property. Based on the results, there is currently no need to determine additional natural or non-natural background levels, thus no new shallow overburden piezometers are required.

If you have any questions or would like to discuss the results in further detail, please do not hesitate to contact me.

.c L.E. Black
 S.J. Nyholt
 D.W. Blue

FIGURE 1

Port Credit South Property

Eastern Perimeter and Ship Channel Monitoring Well Location Plan

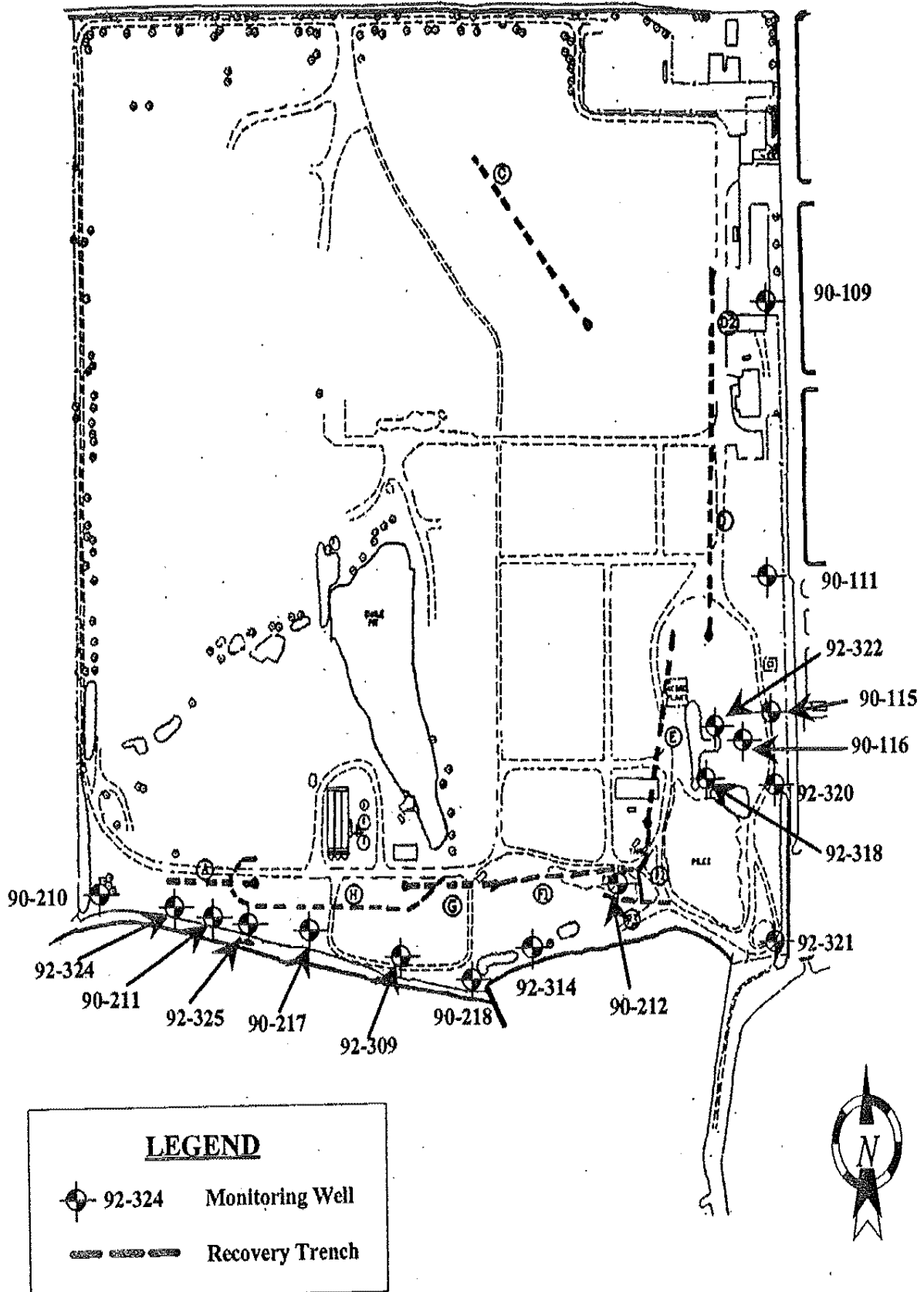


FIGURE 2
PORT CREDIT SOUTH PROPERTY EASTERN PERIMTER
MONITORING WELL CROSS-SECTIONAL VIEW

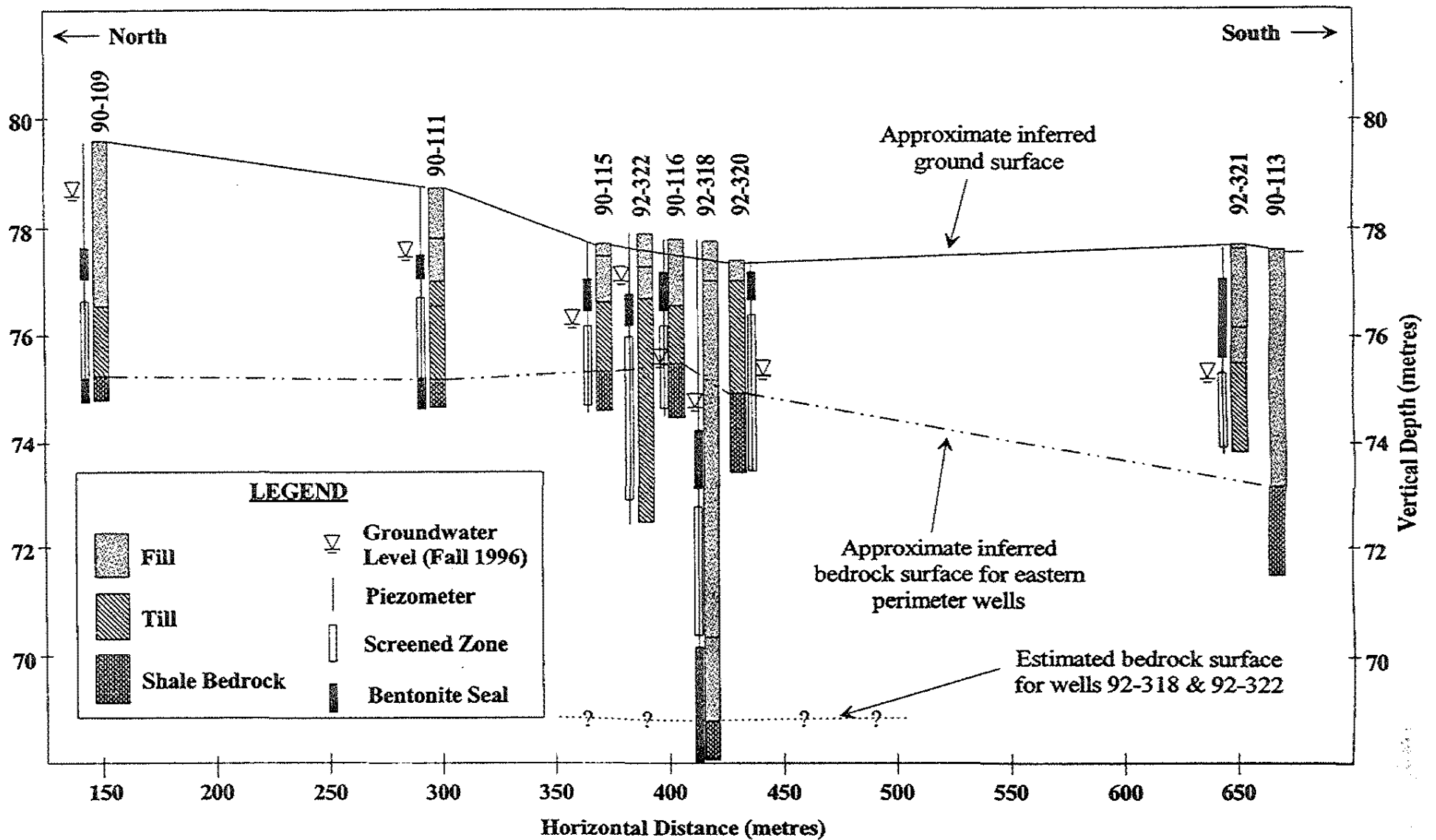


TABLE 1

PORT CRÉDIT SOUTH PROPERTY PERIMETER GROUND WATER ANALYSIS

September 4, 1996 Sampling Event

Well ID	Benzene (MDL)	Toluene (0.4 ug/L)	Ethylbenzene (0.4 ug/L)	m,p-Xylene (0.5 ug/L)	o-Xylene (0.4 ug/L)	Phenolics (0.001 mg/L)	DOC (0.16 mg/L)	pH	Conductivity (4.2 uS/cm)	Alkalinity (10 mg/L)
90-109	<	<	<	<	<	-	-	-	-	-
90-111	<	<	<	1.3	<	-	-	-	-	-
90-115	<	<	<	<	<	<	4.3	7.38	1300	490
92-320	<	<	<	<	<	<	6.0	7.1	6500	420
90-116	<	<	<	<	<	<	2.9	7.54	1000	530
92-322	170	<4.0	<4.0	<5.0	<4.0	0.0057	29	7.04	2200	880
92-318	6.7	<	<	<	<	<	10	7.23	1600	580
92-321	<	<	<	<	<	-	-	-	-	-
92-212	<	<	<	0.7	<	-	-	-	-	-
92-314	<	<	<	<	<	-	-	-	-	-
218	<	<	<	<	<	-	-	-	-	-
92-309	<	<	<	<	<	-	-	-	-	-
90-217	9.7	<	<	3.5	<	-	-	-	-	-
92-325	<	<	<	<	<	-	-	-	-	-
90-211	200	1.9	<	7.3	0.8	-	-	-	-	-
92-324	<	<	<	<	<	-	-	-	-	-
90-210	<	<	<	<	<	-	-	-	-	-

Note:

" < " means not detected at method detection limit (MDL)

" - " means not analyzed for this parameter

TABLE 2

PORT CREDIT SOUTH PROPERTY PERIMETER GROUND WATER ANALYSIS

November 1, 1996 Sampling Event

Well ID	Benzene (MDL)	Toluene (0.2 ug/L)	Ethylbenzene (0.4 ug/L)	m,p-Xylene (0.5 ug/L)	o-Xylene (0.4 ug/L)	Phenolics (0.001 mg/L)	DOC (0.16 mg/L)	pH	Conductivity (4.2 uS/cm)	Alkalinity (10 mg/L)
90-109	<	<	<	<	<	-	-	-	-	-
90-111	<	<	<	<	<	-	-	-	-	-
90-115	<	<	<	<	<	<	3.4	7.55	1200	490
2-320	<	<	<	<	<	<	7.1	7.69	6100	500
90-116	<	<	<	<	<	<	1.8	7.83	1100	570
92-322	150	<4	<4	<5	<4	0.0073	33	7.29	2200	900
92-318	9.0	<	<	<	<	<	9.0	7.71	1500	600
92-321	<	<	<	<	<	-	-	-	-	-
92-212	<	<	<	<	<	-	-	-	-	-
92-314	<	<	<	<	<	-	-	-	-	-
90-218	<	<	<	<	<	-	-	-	-	-
92-309	<	<	<	<	<	-	-	-	-	-
90-217	18	0.5	1.1	2.5	<	-	-	-	-	-
92-325	<	<	<	<	<	-	-	-	-	-
90-211	350	<32	<32	<40	<32	-	-	-	-	-
92-324	<	<	<	<	<	-	-	-	-	-
90-210	<	<	<	<	<	-	-	-	-	-

Note:

" < " means not detected at method detection limit (MDL)

" - " means not analyzed for this parameter

TABLE 3

PORT CREDIT SOUTH PROPERTY

HISTORICAL GROUNDWATER RESULTS FOR PERIMETER MONITORING WELLS

Benzene

MDL = 0.2 ug/L

CWQG-AL = 300

Table B Criteria = 1900

Date

	Well ID	Date														
		Jun-92	Oct-92	Dec-92	Apr-93	Jun-93	Sep-93	Jan-94	May-94	Jul-94	Oct-94	Dec-94	Feb-95	Nov-95	Sep-96	Nov-96
Eastern Perimeter (Fenceline)	90-109	<	-	-	-	-	-	-	<	<	<	<	-	<	<	<
	90-111	<	-	-	<	<	<	<	<	<	<	<	-	<	<	<
	90-115	<	-	-	<	<	<	<	<	<	<	<	-	<	<	<
Ship Dock Area	92-320	<	-	-	<	<	<	<	<	<	<	<	-	<	<	<
	90-116	-	-	-	-	-	-	-	-	-	-	<	-	<	<	<
	92-322	-	-	-	-	-	-	-	-	-	-	72	110	110	170	150
	92-318	3.2	-	-	-	-	-	-	-	-	-	<	-	<	6.7	9.0
	92-321	<	-	-	<	<	<	<	<	<	<	<	-	<	<	<
Southern Perimeter (Waterfront)	90-212	<	-	-	<	<	<	<	<	<	<	<	-	<	<	<
	92-314	<	-	-	-	-	-	-	<	<	<	<	-	<	<	<
	90-218	<	-	-	<	<	<	<	<	<	<	<	-	<	<	<
	92-309	<	-	-	-	-	-	-	<	<	<	<	-	0.7	<	<
	90-217	<	-	-	0.8	0.5	<	<	4.3	<	0.7	<	-	0.5	9.7	18
	92-325	-	<	<	<	<	<	<	<	<	<	<	-	<	<	<
	90-211	210	-	13	200	<	<	<	<	<	<	56	54	110	200	350
	92-324	-	<	<	<	<	<	<	<	<	<	<	-	<	<	<
	90-210	<	-	-	-	-	-	-	<	<	<	<	-	<	<	<

Notes: 1) All units in ug/L

2) MDL = Method Detection Limit

3) "-" = Not Available (Not tested, Well Destroyed)

4) "<" = Not Detected at MDL

5) CWQG-AL = Canadian Water Quality Guideline - Aquatic Life, CCREM, March 1993

6) Table B = Non-Potable Groundwater Criteria, Guideline for Use At Contaminated Sites in Ontario, Ontario MOEE, June 1996

TABLE 4

PORT CREDIT SOUTH PROPERTY

HISTORICAL GROUNDWATER RESULTS FOR PERIMETER MONITORING WELLS

Toluene		MDL = 0.4 ug/L		CWQG-AL = 300		Table B Criteria = 5900										
		Date														
Well ID		Jun-92	Oct-92	Dec-92	Apr-93	Jun-93	Sep-93	Jan-94	May-94	Jul-94	Oct-94	Dec-94	Feb-95	Nov-95	Sep-96	Nov-96
Eastern Perimeter (Fence-line)	90-109	<	-	-	-	-	-	-	<	<	<	<	-	<	<	<
	90-111	<	-	-	<	<	<	<	<	<	<	<	-	<	<	<
	90-115	<	-	-	<	<	<	<	<	<	<	<	-	<	<	<
Ship Dock Area	92-320	<	-	-	<	<	<	<	<	<	<	<	-	<	<	<
	90-116	-	-	-	-	-	-	-	-	-	-	-	-	<	<	<
	92-322	-	-	-	-	-	-	-	-	-	-	<2	<2	<4	<4	<4
	92-318	<	-	-	-	-	-	-	-	-	-	-	-	<	<	<
	92-321	<	-	-	<	<	<	<	<	<	<	<	-	<	<	<
Southern Perimeter (Waterfront)	90-212	<	-	-	<	<	<	<	<	<	<	<	-	<	<	<
	92-314	<	-	-	-	-	-	-	<	<	<	<	-	<	<	<
	90-218	<	-	-	<	<	<	<	<	<	<	<	-	<	<	<
	92-309	<	-	-	-	-	-	-	<	<	<	<	-	<	<	<
	90-217	<	-	-	<	<	<	<	0.9	<	<	<	-	<	<	0.5
	92-325	-	<	<	<	<	<	<	<	<	<	<	-	<	<	<
	90-211	<10	-	<	<6.5	<	<	<	<	<	<	1.1	<2.0	1.4	1.9	<32
	92-324	-	<	<	<	<	<	<	<	<	<	<	-	<	<	<
	90-210	<	-	-	-	-	-	-	<	<	<	<	-	<	<	<

Notes: 1) All units in ug/L

2) MDL = Method Detection Limit

3) " - " = Not Available (Not tested, Well Destroyed)

4) " < " = Not Detected at MDL

5) CWQG-AL = Canadian Water Quality Guideline - Aquatic Life, CCREM, March 1993

6) Table B = Non-Potable Groundwater Criteria, Guideline for Use At Contaminated Sites in Ontario, Ontario MOEE, June 1996

TABLE 5

PORT CREDIT SOUTH PROPERTY

HISTORICAL GROUNDWATER RESULTS FOR PERIMETER MONITORING WELLS

Ethylbenzene

MDL = 0.4 ug/L

CWQG-AL = 700

Table B Criteria = 28000

	Well ID	Date														
		Jun-92	Oct-92	Dec-92	Apr-93	Jun-93	Sep-93	Jan-94	May-94	Jul-94	Oct-94	Dec-94	Feb-95	Nov-95	Sep-96	Nov-96
Eastern Perimeter (Fenceline)	90-109	<	-	-	-	-	-	-	<	<	<	<	-	<	<	<
	90-111	<	-	-	<	<	<	<	<	<	<	<	-	<	<	<
	90-115	<	-	-	<	<	<	<	<	<	<	<	-	<	<	<
Ship Dock Area	92-320	<	-	-	<	<	<	<	<	<	<	<	-	<	<	<
	90-116	-	-	-	-	-	-	-	-	-	-	-	-	<	<	<
	92-322	-	-	-	-	-	-	-	-	-	-	<2	<2	<4	<4	<4
	92-318	1.8	-	-	-	-	-	-	-	-	-	-	-	<	<	<
	92-321	<	-	-	<	<	<	<	<	<	<	<	-	<	<	<
Southern Perimeter (Waterfront)	90-212	<	-	-	<	<	<	<	<	<	<	<	-	<	<	<
	92-314	<	-	-	-	-	-	-	<	<	<	<	-	<	<	<
	90-218	<	-	-	<	<	<	<	<	<	<	<	-	<	<	<
	92-309	<	-	-	-	-	-	-	<	<	<	<	-	<	<	<
	90-217	<	-	-	<	<	<	<	<	<	<	<	-	<	<	1.1
	92-325	-	<	<	<	<	<	<	<	<	<	<	-	<	<	<
	90-211	<8.0	-	<	<4.0	<	<	<	<	<	<	<2.0	<2.0	<	<	<32
	92-324	-	<	<	<	<	<	<	<	<	<	<	-	<	<	<
	90-210	<	-	-	-	-	-	-	<	<	<	<	-	<	<	<

Notes: 1) All units in ug/L

2) MDL = Method Detection Limit

3) " - " = Not Available (Not tested, Well Destroyed)

4) " < " = Not Detected at MDL

5) CWQG-AL = Canadian Water Quality Guideline - Aquatic Life, CCREM, March 1993

6) Table B = Non-Potable Groundwater Criteria, Guideline for Use At Contaminated Sites in Ontario, Ontario MOEE, June 1996

TABLE 6

PORT CREDIT SOUTH PROPERTY

HISTORICAL GROUNDWATER RESULTS FOR PERIMETER MONITORING WELLS

Total Xylene

MDL = 0.5 ug/L

CWQG-AL = -

Table B Criteria = 5600

	Well ID	Date														
		Jun-92	Oct-92	Dec-92	Apr-93	Jun-93	Sep-93	Jan-94	May-94	Jul-94	Oct-94	Dec-94	Feb-95	Nov-95	Sep-96	Nov-96
Eastern Perimeter (Fence)	90-109	<	-	-	-	-	-	-	<	<	<	<	-	<	<	<
	90-111	<	-	-	<	<	<	<	<	<	<	<	-	<	1.3	<
	90-115	<	-	-	<	<	<	6.5	<	<	<	<	-	<	<	<
Ship Dock Area	92-320	<	-	-	<	<	<	<	<	<	<	<	-	<	<	<
	90-116	-	-	-	-	-	-	-	-	-	-	<	-	<	<	<
	92-322	-	-	-	-	-	-	-	-	-	-	<2.5	<2.5	<5	<5	<5
	92-318	3.4	-	-	-	-	-	-	-	-	-	<	-	<	<	<
	92-321	<	-	-	<	<	<	<	<	<	<	<	-	<	<	<
Southern Perimeter (Waterfront)	90-212	<	-	-	<	<	<	<	<	<	<	<	-	<	0.7	<
	92-314	<	-	-	-	-	-	-	<	<	<	<	-	<	<	<
	90-218	<	-	-	<	<	<	<	<	<	<	<	-	<	<	<
	92-309	<	-	-	-	-	-	-	<	<	<	<	-	<	<	<
	90-217	<	-	-	14	0.8	0.6	<	12.9	2.5	0.9	<	-	<	3.5	2.5
	92-325	-	<	<	<	<	<	<	<	<	<	<	-	<	<	<
	90-211	<10	-	2.7	12	7.8	4.4	5.8	<	<	1.5	5.1	<2.5	5.2	7.3	<40
	92-324	-	<	<	<	<	<	<	<	<	<	<	-	<	<	<
	90-210	<	-	-	-	-	-	-	<	<	<	<	-	<	<	<

Notes:

- 1) All units in ug/L
- 2) MDL = Method Detection Limit
- 3) " - " = Not Available (Not tested, Well Destroyed)
- 4) " < " = Not Detected at MDL
- 5) CWQG-AL = Canadian Water Quality Guideline - Aquatic Life, CCREM, March 1993
- 6) Table B = Non-Potable Groundwater Criteria, Guideline for Use At Contaminated Sites in Ontario, Ontario MOEE, June 1996

TABLE 7

PORT CREDIT SOUTH PROPERTY

HISTORICAL GROUNDWATER RESULTS FOR SHIP CHANNEL MONITORING WELLS

Phenolics & Dissolve Organic Carbon

	<u>Units</u>	<u>MDL</u>	<u>Table B Criteria</u>	<u>CWQG-AL</u>
Phenol	mg/L	0.001	26000	0.001
DOC	mg/L	0.35	-	-

<u>Well ID</u>	<u>Jun-92</u>		<u>Nov-95</u>		<u>Sep-96</u>		<u>Nov-96</u>	
	<u>Phenol</u>	<u>DOC</u>	<u>Phenol</u>	<u>DOC</u>	<u>Phenol</u>	<u>DOC</u>	<u>Phenol</u>	<u>DOC</u>
90-115	0.034	7.6	<	-	<	4.3	<	3.4
92-320	0.150	7.8	<	-	<	6.0	<	7.1
90-116	-	-	<	-	<	2.9	<	1.8
92-322	-	-	0.008	-	0.006	29	0.007	33
92-318	0.028	10	0.001	-	<	10	<	9.0

Notes:

- 1) All units in mg/L
- 2) MDL = Method Detection Limit
- 3) " - " = Not Available (Not tested, Well Destroyed)
- 4) " < " = Not Detected at MDL
- 5) CWQG-AL = Canadian Water Quality Guideline - Aquatic Life, CCREM, March 1993
- 6) Table B = Non-Potable Groundwater Criteria, Guideline for Use At Contaminated Sites in Ontario, Ontario MOEE, June 1996

ATTACHMENT 1

Port Credit South Property 1996 Groundwater Monitoring Program Field Observations From The Purging and Sampling Of Groundwater Wells

A. Summer Monitoring Event

B. Fall Monitoring Event

PORT CREDIT SOUTH PROPERTY GROUNDWATER MONITORING

SUMMER 1996 SAMPLING EVENT - MONITORING WELL PURGING

Note: All measurements taken from TOP (top of pipe)

Well ID	Purging Date	Purging Time	Ground Elevation (ft)	TOP Elevation (m)	Initial H2O Level (m)	Initial H2O Elevation (m)	Well Depth (m)	Volume (L)	Volume Purged	Comments
90-109	96/8/30	10:00	260.8	0.97	2.31	78.15	5.25	6.0	11.0	slight mirky, dry
90-111	96/8/30	9:40	257.9	1.19	2.8	77.00	4.595	3.6	5.0	mirky, sulphur, dry
90-115	96/8/30	9:10	255.2	0.86	3.01	75.64	3.76	1.5	8.0	slight cloudy, sulphur, dry
92-322	96/8/30	9:30	256.9	0.81	2.39	76.73	5.68	6.7	8.0	mirky, caustic odour, fizzes, dry
90-116	96/8/30	8:40	255.2	0.97	3.68	75.07	3.87	0.4	1.0	mirky, dry
92-320	96/8/30	8:25	254.0	0.86	3.1	75.18	4.675	3.2	14.0	cloudy, sulphur, dry
92-318	96/8/30	8:50	254.5	0.74	0.14	78.17	5.28	10.4	22.0	mirky black, dry
92-321	96/8/30	16:00	255.1	0.69	2.9	75.54	4.54	3.3	12.5	clear, sulphur, dry
90-212	96/8/30	15:40	-	0.81	7.3	-	9.22	3.9	13.5	cloudy, dry
92-314	96/8/30	15:30	263.2	0.74	5.57	75.39	6.72	2.3	7.5	cloudy, dry
90-218	96/8/30	15:20	256.7	0.76	4.09	74.91	5.18	2.2	12.5	mirky brown, dry
92-309	96/8/30	15:05	257.9	0.71	4.41	74.91	5.97	3.2	12.5	mirky, sulphur, dry
90-217	96/8/30	14:55	255.0	0.97	4.03	74.66	4.98	1.9	6.0	mirky grey, dry
92-325	96/8/30	14:45	253.4	0.91	3.21	74.94	4.48	2.6	20.0	cloudy brown, dry
90-211	96/8/30	14:35	254.0	0.74	3.42	74.74	4.64	2.5	22.0	mirky grey, process odour, dry
92-324	96/8/30	14:25	254.2	0.91	3.41	74.98	4.3	1.8	22.0	cloudy brown, no odour
90-210	96/8/30	3:36	257.4	0.86	4.36	74.96	5.39	2.1	10.0	mirky, sulphur

Note: sulphur = sulphur odour, dry = purge dry, not dry = not purged dry

Well 90-212 has a new white 6" casing around a 2" standpipe extension on top of a new hill, therefore historic elevations are incorrect

PORT CREDIT SOUTH PROPERTY GROUNDWATER MONITORING

SUMMER 1996 SAMPLING EVENT - MONITORING WELL SAMPLING

Note: All measurements taken from TOP (top of pipe)

Well ID	Sampling Date	Sampling Time	Ground Elevation (ft)	TOP Elevation (m)	H ₂ O Level (m)	Initial H ₂ O Elevation (m)	Well Depth (m)	Volume (L)	Parameters Sampled
90-109	96/9/4	10:00	260.8	0.97	2.34	78.12	5.25	5.9	A&B
90-111	96/9/4	10:15	257.9	1.19	2.84	76.96	4.60	3.6	A&B
90-115	96/9/4	10:45	255.2	0.86	3.03	75.62	3.76	1.5	A→E
92-322	96/9/4	11:45	256.9	0.81	2.36	76.76	5.68	6.7	A→E
90-116	96/9/4	11:00	255.2	0.97	3.68	75.07	3.87	0.4	A→E
2-320	96/9/4	10:30	254.0	0.86	3.14	75.14	4.68	3.1	A→E
92-318	96/9/4	11:15	254.5	0.74	3.54	74.77	5.28	3.5	A→E
92-321	96/9/4	11:30	255.1	0.69	3.62	74.82	4.54	1.9	A&B
90-212	96/9/4	14:25	-	0.81	7.30	-	9.22	3.9	A&B
92-314	96/9/4	14:05	263.2	0.74	5.58	75.38	6.72	2.3	A&B
90-218	96/9/4	14:00	256.7	0.76	4.14	74.86	5.18	2.1	A&B
92-309	96/9/4	13:50	257.9	0.71	4.45	74.87	5.97	3.1	A&B
90-217	96/9/4	13:40	255.0	0.97	4.17	74.52	4.98	1.6	A&B
92-325	96/9/4	13:30	253.4	0.91	3.27	74.88	4.48	2.5	A&B
90-211	96/9/4	13:25	254.0	0.74	3.48	74.68	4.64	2.4	A&B
92-324	96/9/4	13:20	254.2	0.91	3.46	74.93	4.30	1.7	A&B
90-210	96/9/4	13:10	257.4	0.86	4.42	74.90	5.39	2.0	A&B

- A = Groundwater Elevation (m)
- B = BTEX (3x40 ml)
- C = Phenolics (100 ml)
- D = DOC (250 ml)
- E = pH, Conductivity, Alkalinity (250 ml)

PORT CREDIT SOUTH PROPERTY GROUNDWATER MONITORING

FALL 1996 SAMPLING EVENT - MONITORING WELL PURGING

Note: All measurements taken from TOP (top of pipe)

Well ID	Purging Date	Purging Time	Ground Elevation (ft)	TOP Elevation (m)	Initial H2O Level (m)	Initial H2O Elevation (m)	Well Depth (m)	Volume (L)	Volume Purged	Comments
90-109	96/10/25	15:00	260.8	0.97	1.85	78.61	5.25	6.9	17.5	slight mirky, dry
90-111	96/10/25	14:50	257.9	1.19	2.26	77.54	4.595	4.7	9.0	mirky, sulphur, dry
90-115	96/10/25	14:20	255.2	0.86	2.32	76.33	3.76	2.9	15.0	slight cloudy, sulphur, dry
92-322	96/10/25	14:40	256.9	0.81	2.14	76.98	5.68	7.2	20.0	mirky, caustic odour, fizzes, dry
90-116	96/10/25	14:10	255.2	0.97	3.31	75.44	3.87	1.1	4.0	mirky, dry
92-320	96/10/25	13:40	254.0	0.86	2.98	75.30	4.675	3.4	15.5	cloudy, sulphur, dry
92-318	96/10/25	14:00	254.5	0.74	3.59	74.72	5.28	3.4	22.0	mirky black, dry
92-321	96/10/25	11:05	255.1	0.69	3.27	75.17	4.54	2.6	7.5	clear, sulphur, dry
90-212	96/10/25	11:15	-	0.81	7.12	-	9.22	4.3	6.5	cloudy, dry
92-314	96/10/25	10:40	263.2	0.74	5.54	75.42	6.72	2.4	7.0	cloudy, dry
90-218	96/10/25	10:30	256.7	0.76	4.25	74.75	5.18	1.9	14.0	mirky brown, dry
92-309	96/10/25	10:20	257.9	0.71	4.57	74.75	5.97	2.8	9.5	mirky, sulphur, dry
90-217	96/10/25	10:15	255.0	0.97	4.2	74.49	4.98	1.6	4.0	mirky grey, dry
92-325	96/10/25	9:55	253.4	0.91	3.38	74.77	4.48	2.2	22.0	cloudy brown
90-211	96/10/25	9:45	254.0	0.74	3.58	74.58	4.64	2.1	22.0	mirky grey, process odour
92-324	96/10/25	9:30	254.2	0.91	3.57	74.82	4.3	1.5	22.0	cloudy brown, no odour
90-210	96/10/25	9:15	257.4	0.86	4.45	74.87	5.39	1.9	20.0	mirky, sulphur

Note: sulphur = sulphur odour, dry = purge dry, not dry = not purged dry

Well 90-212 has a new white 6" casing around a 2" standpipe extension on top of a new hill, therefore historic elevations are incorrect

PORT CREDIT SOUTH PROPERTY GROUNDWATER MONITORING

FALL 1996 SAMPLING EVENT - MONITORING WELL SAMPLING

Note: All measurements taken from TOP (top of pipe)

Well ID	Sampling Date	Sampling Time	Ground Elevation (ft)	TOP Elevation (m)	H ₂ O Level (m)	Initial H ₂ O Elevation (m)	Well Depth (m)	Volume (L)	Parameters Sampled
90-109	96/11/1	11:15	260.8	0.97	1.95	78.51	5.25	6.7	A&B
90-111	96/11/1	14:15	257.9	1.19	2.34	77.46	4.60	4.6	A&B
90-115	96/11/1	13:50	255.2	0.86	2.45	76.20	3.76	2.7	A→E
92-322	96/11/1	14:05	256.9	0.81	2.05	77.07	5.68	7.4	A→E
90-116	96/11/1	13:40	255.2	0.97	3.37	75.38	3.87	1.0	A→E
92-320	96/11/1	13:20	254.0	0.86	2.96	75.32	4.68	3.5	A→E
92-318	96/11/1	13:30	254.5	0.74	3.68	74.63	5.28	3.2	A→E
92-321	96/11/1	12:55	255.1	0.69	3.73	74.71	4.54	1.6	A&B
90-212	96/11/1	12:10	-	0.81	7.17	-	9.22	4.2	A&B
92-314	96/11/1	12:35	263.2	0.74	5.56	75.40	6.72	2.4	A&B
90-218	96/11/1	12:30	256.7	0.76	4.35	74.65	5.18	1.7	A&B
92-309	96/11/1	12:20	257.9	0.71	4.62	74.70	5.97	2.7	A&B
90-217	96/11/1	11:55	255.0	0.97	4.30	74.39	4.98	1.4	A&B
92-325	96/11/1	11:50	253.4	0.91	3.43	74.72	4.48	2.1	A&B
90-211	96/11/1	11:45	254.0	0.74	3.62	74.54	4.64	2.1	A&B
92-324	96/11/1	11:40	254.2	0.91	3.61	74.78	4.30	1.4	A&B
90-210	96/11/1	11:35	257.4	0.86	4.50	74.82	5.39	1.8	A&B

- A = Groundwater Elevation (m)
- B = BTEX (3x40 ml)
- C = Phenolics (100 ml)
- D = DOC (250 ml)
- E = pH, Conductivity, Alkalinity (250 ml)

ATTACHMENT 2

QA/QC Data - Port Credit South Property 1996 Groundwater Monitoring Program

A. September 4, 1996 Monitoring Event

B. November 1, 1996 Monitoring Event

PORT CREDIT SOUTH PROPERTY PERIMETER GROUND WATER ANALYSIS

SEPTEMBER 4, 1996 SAMPLING EVENT

Quality Assurance/Quality Control Data

Parameter	MDL	Units	Method Blank	Trip Blank	92-322 Initial	92-322 Duplicate	92-322 M. Spike	92-322 MS % Rec.	90-115 Initial	90-115 Duplicate	90-115 M. Spike	90-115 MS % Rec.
Alkalinity (as CaCO3)	1.0	mg/L	-	2.9	880	-	-	-	490	490	590	97
pH (20 DEG C)			-	6.35	7.04	-	-	-	7.38	7.41	-	-
Conductivity	4.2	uS/cm	-	<	2200	2200	-	-	1300	-	-	-
DOC (uv/persulf)	0.16	mg/L	<	<	29	-	-	-	4.3	-	-	-
Phenolics	0.0010	mg/L	<	<	0.0057	0.0058	0.033	110	<	-	-	-
Benzene	0.2	ug/L	<	<	170	-	-	-	<	-	-	-
Toluene	0.4	"	<	<	<4.0	-	-	-	<	-	-	-
Ethylbenzene	0.4	"	<	<	<4.0	-	-	-	<	-	-	-
m,p-Xylenes	0.5	"	<	<	<5.0	-	-	-	<	-	-	-
o-Xylene	0.4	"	<	<	<4.0	-	-	-	<	-	-	-
Surrogate Recoveries		%										
d4-1,2-Dichloroethane			103	94	93	-	-	-	89	-	-	-
d8-Toluene			108	87	83	-	-	-	98	-	-	-
Bromofluorobenzene			108	105	99	-	-	-	91	-	-	-

Note:

" < " means not detected at method detection limit (MDL)

" - " means not analyzed for this parameter

PORT CREDIT SOUTH PROPERTY PERIMETER GROUND WATER ANALYSIS

NOVEMBER 1, 1996 SAMPLING EVENT

Quality Assurance/Quality Control Data

Parameter	MDL	Units	Method Blank Initial	Method Blank M. Spike	Method Blank MS % Rec.	90-111 Initial	90-111 Duplicate	90-212 Initial	90-212 M. Spike	90-212 MS % Rec.	90-210 Initial	90-210 Duplicate
Alkalinity (as CaCO3) pH (20 DEG C)	1.0	mg/L	-	-	-	-	-	-	-	-	-	-
Conductivity	4.2	uS/cm	-	-	-	-	-	-	-	-	-	-
DOC (uv/persulf)	0.16	mg/L	<	5.0	99	-	-	-	-	-	-	-
Phenolics	0.0010	mg/L	<	0.026	100	-	-	-	-	-	-	-
Benzene	0.2	ug/L	<	19	96	<	<	<	21	100	<	<
Toluene	0.4	"	<	21	110	<	<	<	21	100	<	<
Ethylbenzene	0.4	"	<	21	110	<	<	<	20	100	<	<
m,p-Xylenes	0.5	"	<	41	100	<	<	<	42	100	<	<
o-Xylene	0.4	"	<	20	100	<	<	<	21	100	<	<
Surrogate Recoveries		%										
d4-1,2-Dichloroethane			97	101	101	99	98	97	99	99	105	106
d8-Toluene			95	104	104	98	100	100	99	99	103	102
Bromofluorobenzene			100	109	109	104	106	107	104	104	102	105

Note:

" < " means not detected at method detection limit (MDL)

" - " means not analyzed for this parameter

PORT CREDIT SOUTH PROPERTY PERIMETER GROUND WATER ANALYSIS

NOVEMBER 1, 1996 SAMPLING EVENT

Quality Assurance/Quality Control Data (continued)

Parameter	MDL	Units	90-115 Initial	90-115 M. Spike	90-115 MS % Rec.	90-116 Initial	90-116 Duplicate	90-116 M. Spike	90-116 MS % Rec.	Trip Blank Initial	Trip Blank Duplicate	Trip Blank M. Spike	Trip Blank MS % Rec.
Alkalinity (as CaCO3)	1.0	mg/L	490	-	-	570	570	670	100	3.8	-	-	-
pH (20 DEG C)			7.55	-	-	7.83	7.83	-	-	6.45	-	-	-
Conductivity	4.2	uS/cm	1200	-	-	1100	-	-	-	<	-	-	-
DOC (uv/persulf)	0.16	mg/L	3.4	-	-	1.8	-	-	-	<	<	4.7	93
Phenolics	0.0010	mg/L	<	0.027	110	<	-	-	-	<	-	-	-
Benzene	0.2	ug/L	<	19	94	<	-	-	-	<	-	-	-
Toluene	0.4	"	<	19	94	<	-	-	-	<	-	-	-
Ethylbenzene	0.4	"	<	18	91	<	-	-	-	<	-	-	-
m,p-Xylenes	0.5	"	<	38	95	<	-	-	-	<	-	-	-
o-Xylene	0.4	"	<	20	99	<	-	-	-	<	-	-	-
Surrogate Recoveries		%											
d4-1,2-Dichloroethane			105	109	109	100	-	-	-	101	-	-	-
d8-Toluene			104	105	105	97	-	-	-	96	-	-	-
Bromofluorobenzene			106	109	109	97	-	-	-	104	-	-	-

Note:

" < " means not detected at method detection limit (MDL)

" - " means not analyzed for this parameter

ATTACHMENT 3

PHILIP ANALYTICAL LABORATORY RAW DATA

A. September 4, 1996 Monitoring Event

B. November 1, 1996 Monitoring Event

Certificate of Analysis

CLIENT INFORMATION

Attention: S.Thornton/W.Scarrow
Client Name: EPC-Research Department,
Project: Port Credit
Project Desc: Port Credit

Address: 453 Christina Street, South
Box 3022
Sarnia, ON
N7T 7M1

Fax Number: 519-339-4436

Phone Number: 519-339-4815

LABORATORY INFORMATION

Contact: Hilary Giles
Project: AN951344
Date Received: 96/09/04
Date Reported: 96/09/13

Submission No.: 610067
Sample No.: 034730-034748

NOTES:

'.' = not analysed '<' = less than Method Detection Limit (MDL) 'NA' = no data available
LOQ can be determined for all analytes by multiplying the appropriate MDL X 3.33
All organic data is blank corrected except for PCDD/F, Hi-Res MS and CLP volatile analyses
Solids data is based on dry weight except for biota analyses.
Organic analyses are not corrected for extraction recovery standards except for isotope
dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DBD/DBF analyses)

Methods used by Zenon are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', Seventeenth Edition. Other methods are based on the principles of MISA or EPA methodologies.

All work recorded herein has been done in accordance with nonnal professional standards using accepted testing methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client and testing company in writing. Any and all use of these test results shall be limited to the actual cost of the pertinent analysis done. There is no other warranty expressed or implied. Your samples will be retained at Zenon for a period of three weeks from receipt of data or as per contract.

COMMENTS:

(1) Chloride interferent removed prior to analysis

Certified by: W.G. Foster Roberts

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13/09/96

Zenon Environmental Laboratories - Certificate of Analysis

Page 2 of 4

Component			Method								
	Client ID:		Blank	90-109	90-111	92-321	92-212	92-314	90-218A	92-309	90-217
	Zenon ID:		034730 96	034731 96	034732 96	034733 96	034734 96	034735 96	034736 96	034737 96	034738 96
	Date Sampled:		96/09/04	96/09/04	96/09/04	96/09/04	96/09/04	96/09/04	96/09/04	96/09/04	96/09/04
	MDL	Units									
Alkalinity (as CaCO ₃)	1.0	mg/L	-	-	-	-	-	-	-	-	-
pH (20 DEG C)			-	-	-	-	-	-	-	-	-
Conductivity	4.2	uS/cm	-	-	-	-	-	-	-	-	-
DOC (uv/persulf)	0.16	mg/L	<	-	-	-	-	-	-	-	-
Phenolics	0.0010	mg/L	<	-	-	-	-	-	-	-	-
Benzene	0.2	ug/L	<	<	<	<	<	<	<	<	9.7
Toluene	0.4	"	<	<	<	<	<	<	<	<	<
Ethylbenzene	0.4	"	<	<	<	<	<	<	<	<	<
m,p-Xylenes	0.5	"	<	<	1.3	<	0.7	<	<	<	3.5
o-Xylene	0.4	"	<	<	<	<	<	<	<	<	<
Surrogate Recoveries		%									
d4-1,2-Dichloroethane			103	101	110	96	79	100	109	95	96
d8-Toluene			108	109	104	93	93	103	112	99	102
Bromofluorobenzene			108	93	76	95	88	105	102	93	107

Zenon Environmental Laboratories - Certificate of Analysis

			<i>Client ID:</i>		92-325	90-211	92-324	90-210	92-332	92-332	92-332	92-332	90-116
			<i>Zenon ID:</i>		034739 96	034740 96	034741 96	034742 96	034743 96	034743 96	034743 96	034743 96	034744 96
			<i>Date Sampled:</i>		96/09/04	96/09/04	96/09/04	96/09/04	96/09/04	96/09/04	96/09/04	96/09/04	96/09/04
Component	MDL	Units								Duplicate	M. Spike	MS % Rec.	
Alkalinity (as CaCO ₃)	1.0	mg/L	-	-	-	-	-	880	-	-	-	-	530
pH (20 DEG C)			-	-	-	-	-	7.04	-	-	-	-	7.54
Conductivity	4.2	uS/cm	-	-	-	-	-	2200	2200	-	-	-	1000
								(1)					
DOC (uv/persulf)	0.16	mg/L	-	-	-	-	-	29	-	-	-	-	2.9
Phenolics	0.0010	mg/L	-	-	-	-	-	0.0057	0.0058	0.033	110		<
Benzene	0.2	ug/L	<	200	<	<	<	170	-	-	-	-	<
Toluene	0.4	"	<	1.9	<	<	<	<4.0	-	-	-	-	<
Ethylbenzene	0.4	"	<	<	<	<	<	<4.0	-	-	-	-	<
m,p-Xylenes	0.5	"	<	7.3	<	<	<	<5.0	-	-	-	-	<
o-Xylene	0.4	"	<	0.8	<	<	<	<4.0	-	-	-	-	<
Surrogate Recoveries		%											
d4-1,2-Dichloroethane			90	112	112	125	93	-	-	-	-	-	97
d8-Toluene			98	104	104	112	83	-	-	-	-	-	91
Bromofluorobenzene			86	102	89	103	99	-	-	-	-	-	113

Zenon Environmental Laboratories - Certificate of Analysis

Component	<i>Client ID:</i>		92-320	92-318	92-115	92-115	92-115	92-115	Trip
	<i>Zenon ID:</i>		034745 96	034746 96	034747 96	034747 96	034747 96	034747 96	Blank
	<i>Date Sampled:</i>		96/09/04	96/09/04	96/09/04	96/09/04	96/09/04	96/09/04	96/09/04
	MDL	Units				Duplicate	M. Spike	MS % Rec.	
Alkalinity (as CaCO ₃)	1.0	mg/L	420	580	490	490	590	97	2.9
pH (20 DEG C)			7.10	7.23	7.38	7.41	-	-	6.35
Conductivity	4.2	uS/cm	6500	1600	1300	-	-	-	<
			(1)						
DOC (uv/persulf)	0.16	mg/L	6.0	10	4.3	-	-	-	<
Phenolics	0.0010	mg/L	<	<	<	-	-	-	<
Benzene	0.2	ug/L	<	6.7	<	-	-	-	<
Toluene	0.4	"	<	<	<	-	-	-	<
Ethylbenzene	0.4	"	<	<	<	-	-	-	<
m,p-Xylenes	0.5	"	<	<	<	-	-	-	<
o-Xylene	0.4	"	<	<	<	-	-	-	<
Surrogate Recoveries		%							
d4-1,2-Dichloroethane			102	99	89	-	-	-	94
d8-Toluene			104	109	98	-	-	-	87
Bromofluorobenzene			97	110	91	-	-	-	105

Certificate of Analysis

CLIENT INFORMATION

Attention: P. Walsh/W. Scarrow
Client Name: EPC-Research Department,
Project: Port Credit
Project Desc: Port Credit

Address: 453 Christina Street, South
Box 3022
Sarnia, ON
N7T 7M1

Fax Number: 519-339-4436 #22

Phone Number: 519-339-4815

LABORATORY INFORMATION

Contact: Hilary Giles
Project: AN951344
Date Received: 96/11/01
Date Reported: 96/11/13

Submission No.: 6K0044
Sample No.: 046007-046025

NOTES: '*'*' = not analysed '*<*' = less than Method Detection Limit (MDL) '*NA*' = no data available
LOQ can be determined for all analytes by multiplying the appropriate MDL X 3.33
All organic data is blank corrected except for PCDD/F, Hi-Res MS and CLP volatile analyses
Solids data is based on dry weight except for biota analyses.
Organic analyses are not corrected for extraction recovery standards except for isotope
dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DBD/DBF analyses)

Methods used by Zenon are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', Seventeenth Edition. Other methods are based on the principles of MISA or EPA methodologies. New York State: ELAP Identification Number 10756.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client and testing company in writing. Any and all use of these test results shall be limited to the actual cost of the pertinent analysis done. There is no other warranty expressed or implied. Your samples will be retained at Zenon for a period of three weeks from receipt of data or as per contract.

COMMENTS:

(1) Chloride interferent removed prior to analysis

Certified by: 

Page 1

Component	Client ID:	Method	Method	Method	90-109	90-111	90-111	92-321	90-212	90-212
	Zenon ID:	Blank	Blank	Blank	046008 96	046009 96	046009 96	046010 96	046011 96	046011 96
	Date Sampled:	96/11/01	96/11/01	96/11/01	96/11/01	96/11/01	96/11/01	96/11/01	96/11/01	96/11/01
	MDL	Units	M. Spike	MS % Rec.			Duplicate			M. Spike
Alkalinity (as CaCO ₃)	1.0	mg/L	-	-	-	-	-	-	-	-
pH (20 DEG C)			-	-	-	-	-	-	-	-
Conductivity	4.2	uS/cm	-	-	-	-	-	-	-	-
DOC (uv/persulf)	0.16	mg/L	<	5.0	99	-	-	-	-	-
Phenolics	0.0010	mg/L	<	0.026	100	-	-	-	-	-
Benzene	0.2	ug/L	<	19	96	<	<	<	<	21
Toluene	0.4		<	21	110	<	<	<	<	21
Ethylbenzene	0.4		<	21	110	<	<	<	<	20
m,p-Xylenes	0.5		<	41	100	<	<	<	<	42
o-Xylene	0.4		<	20	100	<	<	<	<	21
Surrogate Recoveries		%								
d4-1,2-Dichloroethane			97	101	101	98	99	98	103	97
d8-Toluene			95	104	104	102	98	100	98	100
Bromofluorobenzene			100	109	109	109	104	106	104	107

	<i>Client ID:</i>		90-212	92-314	90-218A	92-309	90-217	92-325	90-211	92-324	90-210
	<i>Zenon ID:</i>		046011 96	046012 96	046013 96	046014 96	046015 96	046016 96	046017 96	046018 96	046019 96
	<i>Date Sampled:</i>		96/11/01	96/11/01	96/11/01	96/11/01	96/11/01	96/11/01	96/11/01	96/11/01	96/11/01
Component	MDL	Units	MS % Rec.								
Alkalinity (as CaCO ₃)	1.0	mg/L	-	-	-	-	-	-	-	-	-
pH (20 DEG C)			-	-	-	-	-	-	-	-	-
Conductivity	4.2	uS/cm	-	-	-	-	-	-	-	-	-
DOC (uv/persulf)	0.16	mg/L	-	-	-	-	-	-	-	-	-
Phenolics	0.0010	mg/L	-	-	-	-	-	-	-	-	-
Benzene	0.2	ug/L	100	<	<	<	18	<	350	<	<
Toluene	0.4		100	<	<	<	0.5	<	<32	<	<
Ethylbenzene	0.4		100	<	<	<	1.1	<	<32	<	<
m,p-Xylenes	0.5		100	<	<	<	2.5	<	<40	<	<
o-Xylene	0.4		100	<	<	<	<	<	<32	<	<
Surrogate Recoveries		%									
d4-1,2-Dichloroethane			99	99	109	98	98	102	102	104	105
d8-Toluene			99	100	97	97	100	101	97	102	103
Bromofluorobenzene			104	105	96	93	95	97	101	99	102

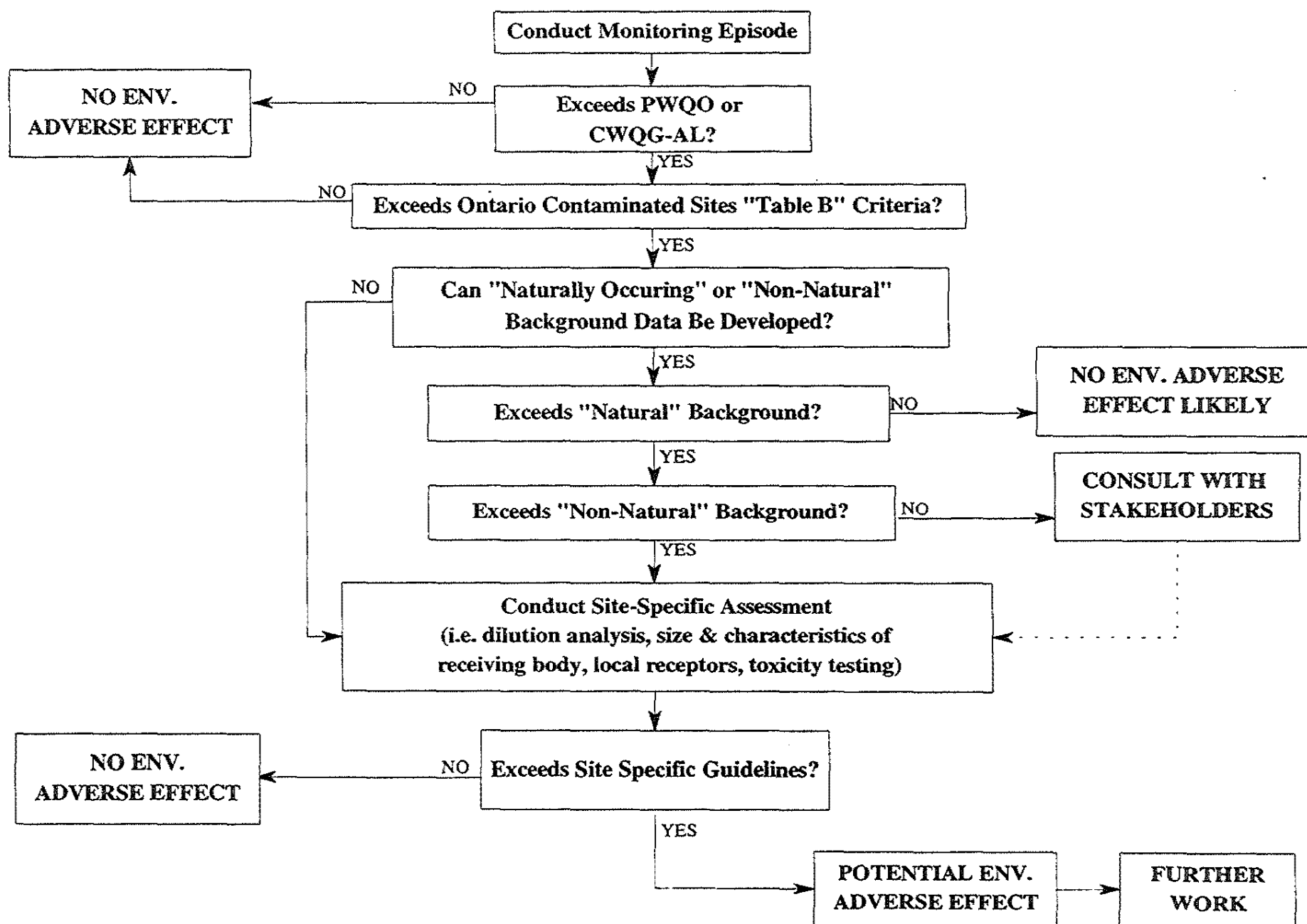
	<i>Client ID:</i>		90-210	90-115	90-115	90-115	92-322	90-116	90-116	90-116	90-116
	<i>Zenon ID:</i>		046019 96	046020 96	046020 96	046020 96	046021 96	046022 96	046022 96	046022 96	046022 96
	<i>Date Sampled:</i>		96/11/01	96/11/01	96/11/01	96/11/01	96/11/01	96/11/01	96/11/01	96/11/01	96/11/01
Component	MDL	Units	Duplicate		M. Spike	MS % Rec.			Duplicate	M. Spike	MS % Rec.
Alkalinity (as CaCO ₃)	1.0	mg/L	-	490	-	-	900	570	570	670	100
pH (20 DEG C)			-	7.55	-	-	7.29	7.83	7.83	-	-
Conductivity	4.2	uS/cm	-	1200	-	-	2200	1100	-	-	-
DOC (uv/persulf)	0.16	mg/L	-	3.4	-	-	33	1.8	-	-	-
Phenolics	0.0010	mg/L	-	<	0.027	110	0.0073	<	-	-	-
Benzene	0.2	ug/L	<	<	19	94	150	<	-	-	-
Toluene	0.4		<	<	19	94	<4.0	<	-	-	-
Ethylbenzene	0.4		<	<	18	91	<4.0	<	-	-	-
m,p-Xylenes	0.5		<	<	38	95	<5.0	<	-	-	-
o-Xylene	0.4		<	<	20	99	<4.0	<	-	-	-
Surrogate Recoveries		%									
d4-1,2-Dichloroethane			106	105	109	109	95	100	-	-	-
d8-Toluene			102	104	105	105	93	97	-	-	-
Bromofluorobenzene			105	106	109	109	99	97	-	-	-

Component	Client ID:	92-320	92-318	Trip	Trip	Trip	Trip
	Zenon ID:	046023 96	046024 96	Blank	Blank	Blank	Blank
	Date Sampled:	96/11/01	96/11/01	96/11/01	96/11/01	96/11/01	96/11/01
	MDL	Units			Duplicate	M. Spike	MS % Rec.
Alkalinity (as CaCO ₃)	1.0	mg/L	500	600	3.8	-	-
pH (20 DEG C)			7.69	7.71	6.45	-	-
Conductivity	4.2	uS/cm	6100	1500	<	-	-
DOC (uv/persulf)	0.16	mg/L	(1) 7.1	9.0	<	<	4.7
Phenolics	0.0010	mg/L	<	<	<	-	-
Benzene	0.2	ug/L	<	9.0	<	-	-
Toluene	0.4		<	<	<	-	-
Ethylbenzene	0.4		<	<	<	-	-
m,p-Xylenes	0.5		<	<	<	-	-
o-Xylene	0.4		<	<	<	-	-
Surrogate Recoveries		%					
d4-1,2-Dichloroethane			97	103	101	-	-
d8-Toluene			95	102	96	-	-
Bromofluorobenzene			100	105	104	-	-

ATTACHMENT 4

CRITERIA TO EVALUATE IMPACT DECISION TREE

NON-POTABLE GROUND WATER - CRITERIA TO EVALUATE IMPACT



MEMORANDUM

**IMPERIAL OIL
PRODUCTS AND CHEMICALS DIVISION
- RESEARCH DEPARTMENT**

TO: S.J. Nyholt

97-07-23

FROM: P.R. Walsh 

R41022

**PORT CREDIT SITE MEETING WITH IMPERIAL OIL, O'CONNOR ASSOCIATES &
ONTARIO MINISTRY OF ENVIRONMENT AND ENERGY - PART II MINUTES**

DATE: June 5, 1997

LOCATION: Imperial Oil Site Offices
10 Mississauga Rd.
Mississauga, Ont.

ATTENDING:

John Budz	(MOEE)
Gerry Healy	(MOEE)
Roger Bywater	(IO)
Siep Nyholt	(IO)
Peter Miasek	(IO)
Paul Walsh	(IO Research)

1. Roles / Changes

- R. Bywater introduced changes in IOL Marketing Engineering reorganization
- S. Nyholt will be responsible for project management and R. Bywater will be responsible for issues management (these new roles within Imperial are considered transparent to stakeholders)

2. South Property

- IO anticipate City approval to redirect surface water currently collected from an area of the City north of Indian Rd., the North Property and the Marketing area to the High St. sewer. This redirection will allow IO to review surface water management of the South Property in isolation including the appropriate functioning of the shale pit.

6. North Property

- the Section 46 application is scheduled to be submitted to MOEE by mid-June '97
- IO is expecting to receive a final North Property Statement of Completion from the MOEE upon successful receipt of Section 46 approval.

h:\steno\prwalsh\pcmin97.doc

.cc

L.E. Black

**Imperial Oil
Products and Chemicals Division**

10 Mississauga Road S.
Mississauga, Ontario
Canada L5G 4M6

S.J. Nyholt
Project Coordinator
Site Remediation Group

Refining & Supply Department

Facsimile Cover Sheet

To: Bruce McDaniel
Andrew Hagner
Company: GAL
Phone:
Fax:

From: Siep Nyholt
Company: Imperial Oil
Phone: 905-278-5513
Fax: 905-278-2568

Date: 7/29/96

Pages Including this cover
page: 1

Subject: Port Credit - North Property Tank Farm

Bruce,

Further to your fax of 7/25/96 re: parking area surficial soils, I would advise that Mr. Gerry Healy of the MOEE has completed inspection of this area.

The inspection was coincident with an inspection of the Tankfarm buffer soils by the MOEE, conducted today. The inspection was completed at the request of the MOEE and includes the area in question. Mr. Healy confirmed that there was no evidence of any petroleum odours or staining in the surficial soils of the Tankfarm.

Should you have any further questions regarding this matter, please contact me.

Regards



cc: Mr. Gerry Healy - MOEE,
Senior Environmental Officer



Imperial Oil

Imperial Oil
Products and Chemicals Division

111 St. Clair Avenue West
Toronto, Ontario
Canada M5W 1K3

J.R. Lynn
Manager,
Refining Services

Refining & Supply Department

MS - ME 120

July 16, 1996

Mr. J. Budz, P.Eng.
District Manager
Halton-Peel District
Ministry of the Environment and Energy
1182 North Shore Blvd., East
Burlington, Ontario
L7R 3Z9



Dear Mr. Budz:

The following meeting notes, including attachments, are intended to document our June 3, 1996 meeting discussions and mutual understandings between Imperial Oil and the Halton-Peel district office of the MOEE. If you disagree with any portion of these notes or have any comments, additions or omissions please notify the undersigned.

Subject : Port Credit Surplus Site

Meeting Location : Imperial Oil's offices located at 10 Mississauga Road

Attendees : **MOEE:** John Budz, Gerry Healey

IO: Roger Bywater, Siep Nyholt, Peter Miasek

Golder Associates (part-time) : David Dubois

O'Connor Associates (part-time) : Ron McKee, Gary Karp

Agenda :

This meeting was initiated by Imperial Oil for the purpose of reviewing progress and obtaining a mutual understanding regarding specific remediation and general site management initiatives related to the subject Port Credit (former Texaco refinery) surplus site.

Golder Project Review :

Golder Associates reviewed and updated the meeting on Golder's involvement with specific projects associated within the Port Credit areas of the North Property, Marketing Area and the South Property. Golder Associates minutes to this portion of the meeting are attached as Attachment #1. In addition to the Golder minutes the following items were also discussed at this point in the meeting:

North Property Dust & VOC Monitoring

The MOEE reconfirmed Imperial's understanding established verbally on November 6/95 that dust and VOC monitoring could be discontinued at the site during the 1996 construction season. The North Property remediation is on schedule for 1996 completion. Based on a plan which includes the incorporation of several years of site proven construction soils management techniques and several years of favourable VOC measurement results, the MOEE determined that dust and VOC monitoring could be discontinued at the site.

Future North Property Dust Control

Imperial Oil indicated that it was interested in protecting the surrounding neighbourhood from the potential of dust generation from the site upon the completion of the planned remediation activities scheduled to be completed in July 1996. Immediately upon successful clean-up verification by the MOEE it is Imperial's intent to effect minor regrading, for surface water management, of appropriate sections of the site for effective drainage and to encourage an appropriate vegetation ground cover.

O'Connor Associates Project Review :

O'Connor Associates reviewed and updated the MOEE on O'Connor's involvement on specific projects associated within the Port Credit Marketing Area. O'Connor Associates minutes to this portion of the meeting are attached as Attachment #2. See also O'Connor Drawings Nos. 1.1, 1.3 & 1.10.

Imperial Oil Review :

Imperial (in the absence of previously present representatives of Golder Associates and O'Connor Associates) further discussed and reviewed project and site management issues with the MOEE. Imperial's minutes to this portion of the meeting are attached as Attachment #3.

Note: MOEE June 18/96 letter attached as Attachment #4.

Yours very truly,

A handwritten signature in black ink, appearing to read 'R. Bywater', is written over the typed name.

Roger F. Bywater, P.Eng.
Project Manager
Port Credit Surplus Refinery Site

July 10, 1996

861-1724C
VERSION 1

**GOLDER ASSOCIATES - IMPERIAL OIL
TEAM MEETING ON PORT CREDIT
JUNE 03, 1996**

ATTENDEES:

Mr. John Budz	- Ministry of Environment and Energy	(MOEE)
Mr. Gerry Healey	- Ministry of Environment and Energy	(MOEE)
Mr. Roger F. Bywater	- Imperial Oil Limited	(IOL)
Dr. P.G. (Peter) Miasek	- Imperial Oil Limited	(IOL)
Mr. Siep J. Nyholt	- Imperial Oil Limited	(IOL)
Mr. Ron McKee	- O'Connor Associates	(OA)
Mr. Gary Karp	- O'Connor Associates	(OA)
Dr. David DuBois	- Golder Associates Ltd. (part-time)	(GAL)

These meeting notes provide a summary of the salient points of discussion and the main points agreed during the meeting.

ACTION BY	ACTION / POINTS OF DISCUSSION
------------------	--------------------------------------

1.0 General

Mr. Bywater opened the meeting and provided a description of the proposed agenda. He pointed out that the meeting would be split into three (3) parts at which the work by GAL, OA and IOL would be separately discussed with MOEE.

2.0 South Property, Greenway Corridor

The work that had been successfully completed on the "Duty of Care" areas of the South Property was described. It was concluded that these works had removed the "free phase" petroleum impact and interceptor trenches had been installed on the up gradient side to prevent further re-contamination. In fact, by these works the interceptor trenches along the south side of the South Property had been connected together.

3.0 North Property

A summary status report for work on the North Property was provided. Soil removal was continuing to the South Property.

It was agreed that verification of works on the Tankfarm close to the Trans-Northern Pipelines Inc. (TNPI) would be carried out at the same time as verification works for the Landfarm, probably in mid to late June 1996.

The Environmental Decommissioning Report (EDR) for the North Property would be provided to the MOEE upon completion of the remedial works during the week of July 20, 1996.

July 10, 1996

- 2 -

861-1724C
VERSION 1

**GOLDER ASSOCIATES - IMPERIAL OIL
TEAM MEETING ON PORT CREDIT
JUNE 03, 1996**

ACTION BY ACTION / POINTS OF DISCUSSION

4.0 Marketing Area Extension (MAE)

A summary of the works in Area "A" of the MAE was provided. A description of the two (2) stages of the earthworks coupled with the verification works was given. GAL indicated that these works were carried out to meet the previously agreed clean-up criteria and that the portion of the property had been satisfactorily restored for commercial / industrial uses. It was also indicated that an EDR for the north portion of the Marketing Area including the MAE (Red Lands by IOL designation) would be provided in July 1996.

Notes prepared by David DuBois.

DDB/clg

000112



O'CONNOR ASSOCIATES ENVIRONMENTAL INC.

2150 WINSTON PARK DRIVE, SUITE 200 WEST OAKVILLE ONTARIO L6H 5V1 TEL: (905) 829-3330 • FAX: (905) 829-3404

July 16, 1996

10-2936.11,2

MEETING NOTES (Second Component)

DATE: 96/06/03

LOCATION: Imperial Oil
10 Mississauga Road South
Mississauga, Ontario

RE: CHLORINATED SOLVENTS CONTAMINATION
FORMER TEXACO MARKETING AREA
PORT CREDIT, ONTARIO

ATTENDING:	John Budz	Ontario Ministry of Environment & Energy (MOEE)
	Gerry Healy	(MOEE)
	Roger Bywater	Imperial Oil (IO)
	Peter Miasek	IO
	Siep Nyholt	IO
	Ron McKee	O'Connor Associates Environmental Inc. (OAEI)
	Gary Karp	OAEI

TOPICS DISCUSSED

1. Roger presented an overhead plan showing the areal of extent of the study area. This area included sections of 70 Wesley Avenue, 92/94/96 Park Street and the Red, Orange and Green Lands of the Marketing area.
2. Roger outlined the following details regarding the remedial activities undertaken at 70 Wesley in conjunction with Plant Products' work:
 - Solvent impacted soil was removed from Block PS, B and D, as shown on the overhead drawings;
 - Approximately 1600 t of impacted soils were removed from the site and disposed of at Phillip and Laidlaw landfill sites;
 - Soil was excavated to the bedrock surface, except at Block D, where a shallow excavation was undertaken to check for pesticides;
 - Subsurface conditions were monitored throughout the excavation;

- Liners were installed on the walls and floor of the excavation prior to backfilling;
 - Air monitoring was undertaken;
 - An upgradient groundwater drain was installed parallel to the north property line of 70 Wesley;
 - Piping for monitoring and contingency remediation was installed along the walls of Block PS and B.
3. Roger outlined the work undertaken on the Park Street properties:
- An access trench was excavated in September 1995, as shown on the overhead drawings;
 - Subsurface conditions were monitored throughout the excavation;
 - The access trench was tied into the existing dewatering trench (and pump-and-treat plant) to enhance the recovery of contaminated groundwater on the property and reduce the opportunity for further impact on the bedrock
 - An air monitoring program was undertaken.
4. Roger outlined details of recent activities undertaken on the Green and Orange Lands:
- An enhanced maintenance program was initiated for the pump-and-treat plant;
 - Three recovery wells are currently being maintained on the Green Lands.
 - A recovery trench was installed on the Orange Lands in November 1995 to cut off contaminated groundwater flowing onto the Green Lands and to enhance recovery of bedrock contaminants. Roger presented an overhead drawing showing the configuration and location of the trench. One recovery well was installed in the trench and connected to the pump-and treat system on 95/11/15;
 - An air monitoring program was undertaken during the construction of the trench;
 - Quarterly monitoring and hydrochemical sampling visits have continued;
 - Groundwater capture and hydrochemistry have been tracked.

5. Roger presented overhead drawings which illustrated what was learned from the Wesley and Park excavations. The drawings showed stratigraphic and soil chemical information, and an overview of soil and groundwater contamination. Roger stated that the results revealed at what depths the soil was impacted and where the bedrock became impacted on Park Street, and confirmed the relationship between soil and groundwater contamination.
6. Roger discussed the findings from the Orange and Green Lands' work:
 - The pump-and-treat plant throughput has increased by approximately 40 % over the past seven months;
 - Discharges to the sanitary sewer have continually met the by-laws;
 - An overhead drawing illustrated groundwater capture by the Green Lands and Orange Lands pumps and showed that effective groundwater cutoff has been achieved at the Orange/Green Lands boundary;
 - There was no indication of downgradient spreading of the contaminants;

The shrinkage of the "plumes" was illustrated on an overhead drawing. Ron stated that the cores of the plumes had decreased substantially in concentration and the areal extent of the plumes has decreased by approximately 10%;

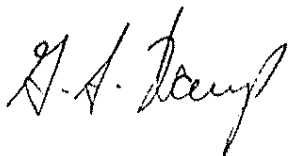
 - The average concentration of total volatile organic compounds (VOCs) in the monitoring wells has decreased by approximately 64%, comparing February 1995 data to February 1996 data. An overhead drawing illustrated the degree of VOC concentration changes.
7. John expressed concern regarding two areas where VOC concentrations increased. Gary explained that the increase near the Loblaws building was marginal; compared to the summer of 1995, the concentrations had actually decreased, and in May 1996, the values were very close to the Ontario drinking water criteria. The apparent increase on Park Street was explained by Gary as related to the inactive pump during the last sampling visit and an unfair comparison between static and dynamic concentrations in the water.
8. Peter suggested that if another bedrock cutoff trench was installed on Park Street, one would expect to see concentrations reduce beneath the Orange Lands.
9. John was concerned about possible contamination beneath the private residence at 93 Park Street. Peter explained that no contamination was found in any well on that property, but since contamination was detected on the Orange Lands, interpolation of the data merely placed an inferred contour on 93 Park. Roger offered to address this concern during the next phase of the meeting.

10. Roger presented an overhead figure which illustrated the decline in VOC concentrations over time on the Green and Orange Lands, and commented that the Green Lands bedrock was cleaning up faster, after the installation of the Orange Land trench.
11. John asked how often the site was monitored. Roger stated that quarterly monitoring was undertaken.
12. John also asked if any DNAPL was seen during the excavation work. Peter responded that no DNAPL was seen in any of the excavations.

We trust that the foregoing adequately represents the topics of discussion. If you have any questions or concerns, please do not hesitate to contact the undersigned.

Notes prepared by:

O'CONNOR ASSOCIATES ENVIRONMENTAL INC.

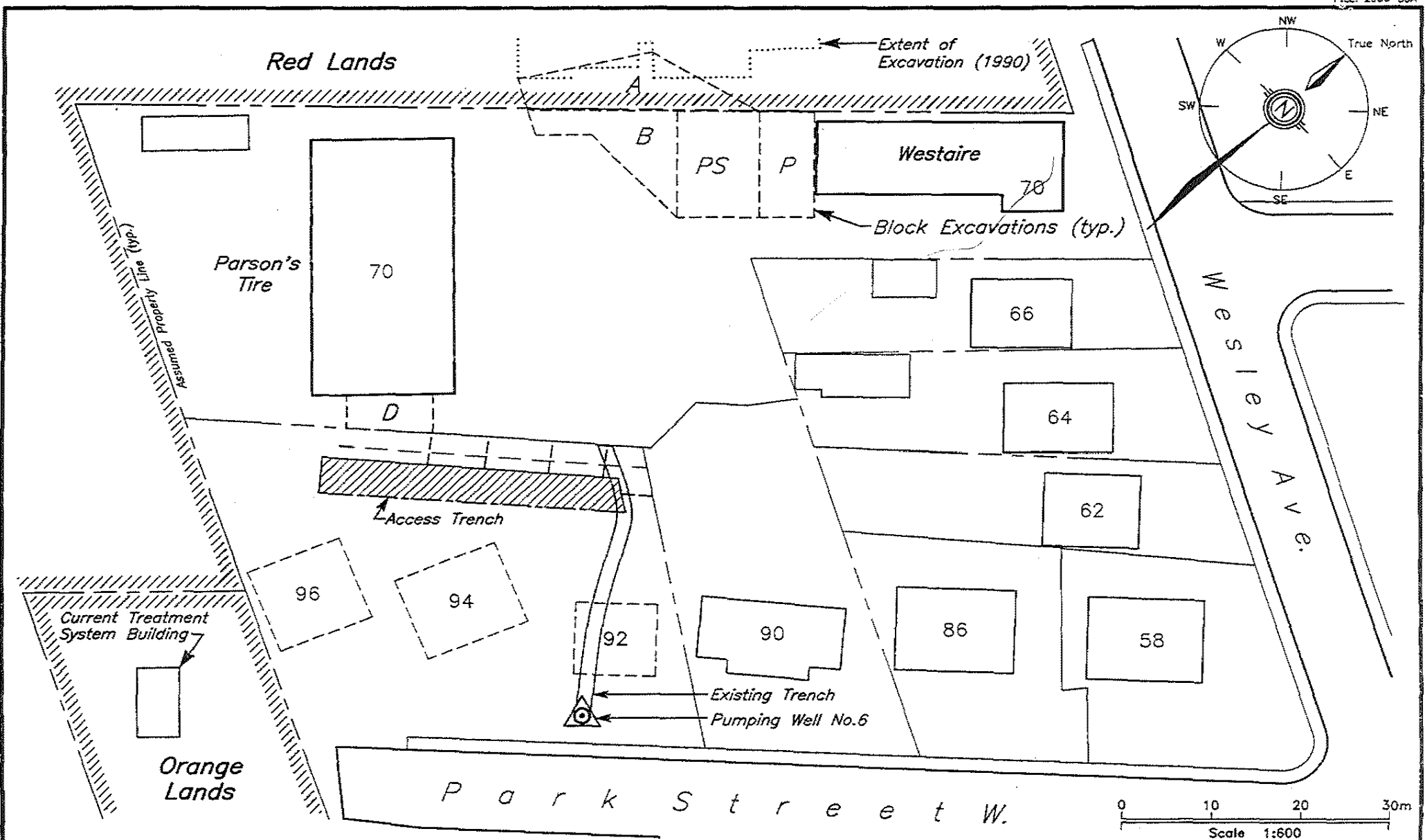


G.S. Karp, B.Sc.

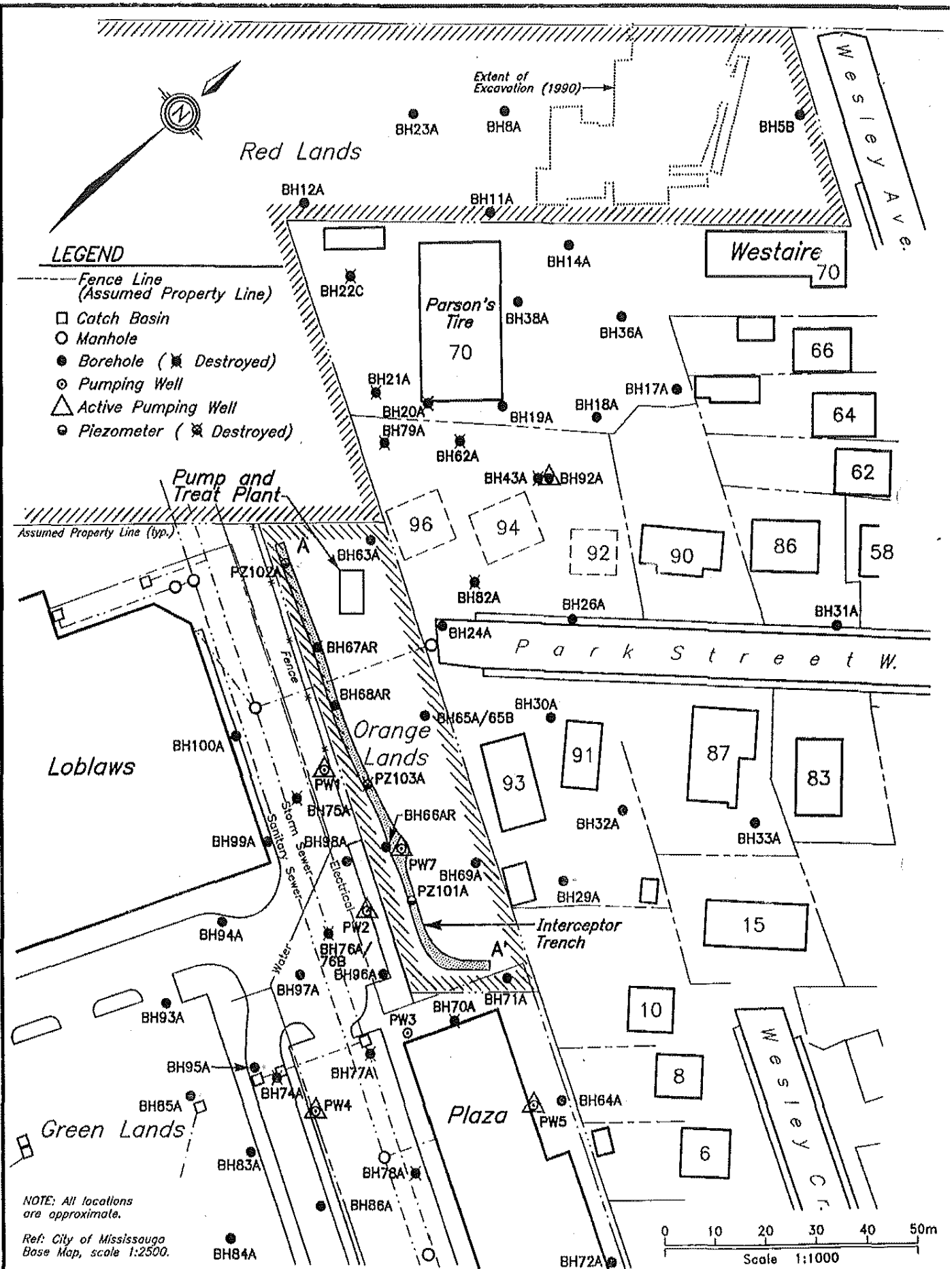
Ronald C.E. McKee, P.Eng.

GSK:fm

Distribution: (5) Roger Bywater, IO



Site Plan		O'CONNOR ASSOCIATES	
JOB NO.: 10-2936.8,2		DATE: 96/05/24	
DRAWN BY: JPL/EFO		DWG. NO.: 1.1	



Site Plan
(Bedrock Wells)



O'CONNOR ASSOCIATES

JOB NO.: 10-2936

DATE: 96/02/02

DRAWN BY: EFO

DWG. NO.: 1.3

000118

LEGEND

Fence Line
(Assumed Property Line)

● Borehole

○ Pumping Well

● Piezometer

□ Catch Basin

○ Manhole

△ Active Pumping Well

◆ Direction of
Groundwater Flow

NM Not Monitored

() Value not used
for contouring

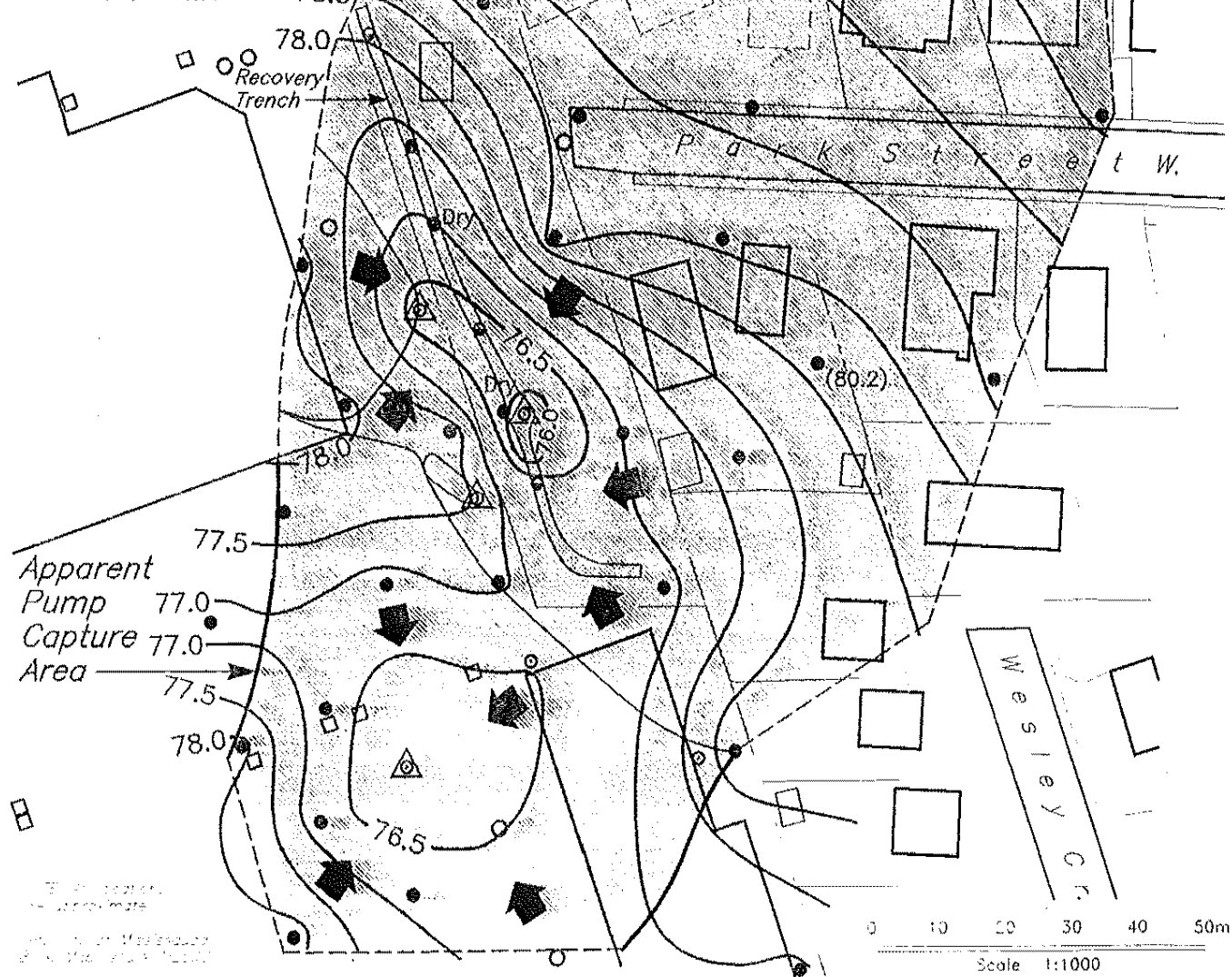
Capture Zones

□ By Orange Lands
Trench

□ By Green Lands
Pumping Wells

NOTE: Contouring by
"Surfer" linear kriging
computer modeling.

Assumed Property Line (typ.)



Elevation of the Piezometric Surface

(Bedrock Aquifer)

(m)

96/02/01



O'CONNOR ASSOCIATES

JOB NO.: 10-2936.1,1

DATE: 96/02/16

DRAWN BY: JPL

DWG. NO.: 1,10

000119

Imperial Oil

Minutes of June 3, 1996 Meeting

Port Credit Site Review

Attendees: MOEE
Imperial Oil

This portion of the meeting was a continuation of an overall site meeting which was attended in a separate prior segment by Imperial Oil's consultants, Golder Associates and O'Connor Associates. Separate minutes were prepared for these segments (see attachments).

North Property

Imperial confirmed the status of the North Property remediation works which includes the Landfarm, Tankfarm and TNPI boundary. The Landfarm is expected to be ready for MOEE verification by June 15, 1996, followed by an EDR submission by July 15, 1996.

The MOEE requested a schematic of the Landfarm depicting original 'cell' designations and remedial works completed. The MOEE further suggested that Imperial may wish to begin the anticipated Landfarm Section 46 MOEE process and associated notices and agreements.

Marketing Area

Imperial reviewed previous plans for the proposed Phase II vapour extraction system. Details of the recent installation of the 'Orange Lands' trench were outlined including results of O'Connor's February 1996 monitoring results which indicate a significant plume reduction. In light of these very encouraging plume reduction results, coupled with the potential high cost of installing and operating the originally proposed in-situ VES system, Imperial outlined a preferred Phase II option involving adding an additional bedrock trench on Imperial's Park St. property to isolate the downstream bedrock from the remaining upstream overburden source of contamination. Imperial further confirmed discussions with the landowner of 70 Wesley to gain control of this property for a period of time sufficient to deal with solvent remediation on the site on an ex-situ basis. The MOEE took no exception to Imperial's described change in Option II tactics.

P.G. Miasek discussed the results of a recent deep bedrock and overburden solvents risk analysis which measures the potential for surrounding health risk. This analysis employs MOEE protocols and has been peer reviewed using O'Connor Associates. The results of this analysis indicate that occupants in surrounding structures have incremental risk within acceptable limits and further that new anticipated plaza development could proceed well within acceptable risk criteria. The MOEE concurred with Imperial's plans to progress the continued clean-up efforts on the 'Orange Lands' and suggested that it is in Imperial's purview to advance the timely next best use of these lands.

Final verification of the 'Red Lands' is dependent on completion of the 70 Wesley clean-up which is expected to be completed by June 12/96. Verification of remaining Imperial boundary areas will follow. EDR documents will be submitted so as to link to the existing 'Green Lands' EDR previously submitted to the MOEE.

South Property

Imperial confirmed that during the execution of the Duty of Care projects (described separately in this meeting by Golder) as completed along the south shore line, some 200 truck loads of impacted soils were removed from the excavation. These soils have been placed on the South Property in a defined area of the South Property. The MOEE concurred with Imperial's request to temporarily store and monitor these excavated soils within the designated area on the South Property site pending future analysis and disposition consistent with future site management, remediation and re-use of the South Property site.

Site Surface Water and Groundwater Control and Monitoring

Imperial reviewed their recent efforts and programs aimed at effective site water measurement and control.

Surface Water

Imperial stated that with the pending completion of certain remediation works within the North Property and the Marketing Area, it is Imperial's intention to provide suitable evidence of surface water quality as may be required to meet local municipal authority specifications such that the surface water run-off from the North Property and the Marketing Area can be diverted entirely (from the historic South Property shale pit receptor) into an available municipal receptor (i.e., High St. sewer). This diversion event is expected to occur by year-end 1996.

South Property surface water (which continues at the present time to include gathered surface waters from the North Property and the Marketing Area) continues to be collected in the site's historic shale pit. This pit is designed with a controlled outlet to Lake Ontario. As discussed at this meeting, since this discharge is directly to the lake, the quality of this discharge is directly under MOEE jurisdiction. The quality of the effluent from this surface water discharge is to be monitored against the established criteria (for oil and grease, phenols and suspended solids) shown in an attached MOEE letter (Attachment #4) dated June 18, 1996). It is Imperial's intention to continue to monitor the South Property shale pit outfall consistent with these documented quality objectives.

In a subsequent discussion with the MOEE district office, the MOEE undertook to review their files for the purpose of providing Imperial with a copy of the Ontario Water Resources Act Certificate of Approval mentioned in the MOEE letter of June 18, 1996.

Groundwater South Property Perimeter Monitoring

The MOEE was advised that the recent South Property perimeter groundwater monitoring events conducted by Imperial's Sarnia Research group are consistent with previous sampling events conducted by Golder. The MOEE was also advised of the fact that the downgradient perimeter groundwater interceptor trench system has now been made contiguous (as part of the South Property Duty of Care projects described by Golder). Based on the fact that the South Property site groundwater is being intercepted by an active capture and treatment system, the MOEE stated that Imperial had no requirement to routinely report site groundwater quality. The MOEE suggested that Imperial may however wish to continue to monitor existing perimeter monitoring wells between the trench system and the lake in order to assure that the capture system continues to function adequately. Imperial plans to continue the Sarnia Research directed perimeter groundwater monitoring program initiated in 1995. This program's two remaining 1996 sampling events will be scheduled for August and November 1996. Recommendations flowing from this program will appropriately reflect site geology and hydrology of the site. Recommendations stemming from this program will form the basis for a proposed 1997 monitoring program. Ongoing finalized report information will be available for future MOEE review on a request basis.

Perimeter Bore Hole 90-211

Imperial reported, based on the most recent Sarnia Research groundwater monitoring program, that perimeter well BH 90-211 continued to indicate intermittent low BTEX levels. The MOEE, having undertaken an internal review of BH 90-211 and surrounding relevant monitoring data earlier in 1996, advised subsequent to this meeting (Attached June 18, 1996 letter) that groundwater discharging from this area would not likely have an adverse effect on Lake Ontario. Imperial will continue to include BH 90-211 in a continuing perimeter groundwater monitoring program.

Former Ship Channel Area

The ship channel area groundwater monitoring wells are included as part of the perimeter monitoring wells. Although not specifically highlighted during the subject meeting, Imperial recognizes the comments concerning BTEX levels recorded in this area subsequently conveyed by the MOEE (Attached June 18, 1996 letter). Imperial plans to continue to include the existing ship channel monitoring wells in future monitoring programs and will undertake to try to further understand potential sources and extent of potential BTEX concentrations in this area, as discussed by the MOEE, as they may relate to impacting groundwater discharging from this area.

R.F. Bywater



Ministry
of the
Environment
& Energy

1182 North Shore Blvd. East
1st Floor
Burlington, ON L7R 3Z9

Ministère
de
l'Environnement
et de l'Énergie

1182 boul. North Shore est
1^{er} étage
Burlington ON L7R 3Z9

Central
Region

Tel. (905) 637-4150
Fax (905) 637-4175
Direct (905) 637-4151

Région du
Centre

Tel. (905) 637-4150
Fax (905) 637-4175
Directe (905) 637-4151

June 18, 1996

Imperial Oil
111 St. Clair Avenue West
Toronto, Ontario
M5W 1K3

Attention: Mr. R.F. Bywater
Project Manager
Port Credit Site

Dear Mr. Bywater:

I am writing to advise you that Central Region's Hydrogeologist has reviewed your consultant's report regarding the groundwater program on the Port Credit South Property Site.

As mentioned in the June 3, 1996, meeting, it would appear that groundwater discharging from the area within well 20-211 would not likely have an adverse effect on Lake Ontario. Our hydrogeologist's comments are as follows:

South Property

In 1993 and 1994, BTEX compounds were found in three wells (90-110, 90-211, and 90-217) on the South Property. Only well 20-211 had benzene concentrations exceeding the ODWO and the PWQO. This occurred on one occasion in early 1993, when the concentration was measured to be 200 ug/l. Although this value exceeds the ODWO and PWQO, it does not exceed the Canadian Water Quality guideline of 300 ug/l.

It is expected that the BTEX readings will remain sporadic in the long term, fluctuating from non-detectable to detectable throughout the year. Since BTEX compounds are relatively immiscible, it will take a long time for the incoming ground water to "flush" the compounds out.

We therefore, agree with the consultant's recommendation that the existing monitoring program be continued. In the future, should benzene concentrations increase, corrective action could be initiated at that time.

.../2

Former Ship Dock Area

Three wells were sampled in the former ship dock area once in 1994. Of these three wells, only 92-322 had detectable levels of BTEX compounds. The December (72 ug/l) sample showed benzene to be above the ODWO but below the PWQO. A sample taken in February 1995 (110 ug/l) exceeded both the ODWO and PWQO but did not exceed the Canadian Water Quality guideline. TEX concentrations appear to be below the ODWO and PWQO for both sampling events.

We agree with the consultant's recommendation that the monitoring wells in the former Ship Dock area be included in the regular (quarterly) monitoring program for the site. As recommended by the consultant, Imperial Oil should also try to determine the vertical and lateral extent of the BTEX contamination. The source of the BTEX compounds should also be determined.

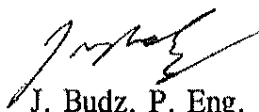
It is recommended that information on the geology and hydrogeology of the site (that pertains to the monitoring program) be included with the 1995 monitoring report. It is difficult to assess/review a monitoring program without relevant background information. Although some background information was provided to us, it was in "draft" form. For the next review, the background information should be finalized.

In addition to the above, attached is a copy of the Ministry's former Effluent Quality Objectives for Petroleum Refineries. As these objectives were applied to Texaco's discharge to Lake Ontario, we will continue to enforce the following objectives in assessing the quality of your Shale Pit effluent.

- oil and grease - 10 mg/l
- phenols - 20 ug/l
- suspended solids - 15 mg/l

You should also be aware that the Shale Pit was part of Texaco's on-site wastewater treatment plant which operated under an Ontario Water Resources Act Certificate of Approval.

Yours truly,


J. Budz, P. Eng.
District Manager
Halton-Peel District

JB:mb

Attachment:

TABLE I

Ontario Effluent Quality Objective
for Petroleum Refineries

Oil and Grease	- 10 mg/l maximum
Phenols	- 20 ug/l maximum
Suspended Solids	- 15 mg/l maximum
Ammonia Nitrogen	- 10 mg/l maximum
COD	- 200 mg/l maximum *
pH	- 5.5 - 9.5
Chromium	- 1 mg/l maximum
Copper	- 1 mg/l maximum
Nickel	- 1 mg/l maximum
Lead	- 1 mg/l maximum
Zinc	- 1 mg/l maximum

No froth, scum or objectionable odour or colour.

- * This is an interim objective based on the capability of current best practicable treatment technology, it may be revised as alternative technology becomes available and where dictated by demonstrated adverse effects on receiving water quality.

The effluent quality objectives in Table I may be used as the basis upon which site-specific requirements are negotiated to satisfy local needs dictated by receiving stream water quality and usage.

MS- LA- 120

ONTARIO MINISTRY
OF THE ENVIRONMENT

FEB 29 1996

CENTRAL REGION
OAKVILLE OFFICE

Imperial Oil
Products and Chemicals Division

10 Mississauga Road S.
Mississauga, Ontario
Canada L5G 4M6

S.J. Nyholt
Project Coordinator
Site Remediation Group

Refining & Supply Department

Facsimile Cover Sheet

To: Gerry Healy
Company: MOEE
Phone:
Fax: 815-5901

From: Siep Nyholt
Company: Imperial Oil
Phone: 905-278-5513
Fax: 905-278-2568

Date: 2/27/96

Pages including this
cover page: 1

Subject: Port Credit - South Property

Gerry,

Please be advised that we are conducting excavation works pursuant to 'duty of care' issues as they relate to the Greenway area of the South Property. The scope of this work was conveyed at our December 6/95 meeting, attended by both yourself and John Budz. Details can be found in the minutes of the meeting as issued by our consultant, Golder Associates (2/7/96).

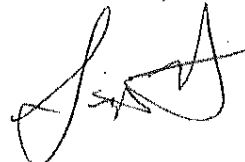
In the event that hydraulic communication might occur between an excavation and Lake Ontario, we will be deploying sorbent booms during any such excavation near the water's edge. Pumps and a vacuum truck are being used to manage excavation water. Golder Assoc. are supervising all aspects of this work.

Should you have any questions or comments, please contact me at 278-5513.

Thank you,



DUE TO CURRENT
LABOUR DISPUTE
(MOEE ON STRIKE)
THIS DOCUMENT UNABLE
TO BE FAXED.
IT IS THEREFORE
BEING MAILED
SAME DAY.

 2/27/96

cc: Roger Bywater - Manager, Site Remediation



Imperial Oil

SI-HP-MS

120

111 St. Clair Avenue West
Toronto, Ontario
Canada M5W 1K3

R.F. (Roger) Bywater
Property Manager
Real Estate

Tel: (416) 968-8091
Fax: (416) 968-8192

ONTARIO MINISTRY
OF THE ENVIRONMENT
AND ENERGY

JUN 24 1997

CENTRAL REGION
BURLINGTON OFFICE

June 18, 1997

Ministry of Environment and Energy
5775 Yonge Street, 8th Floor
North York, ON M2M 4J1

Attention: Mr. Robert P. Ryan, M.E.S., M.C.I.P., R.P.P.
Group Leader / Senior Approvals Officer
Environmental Approvals & Plan Review Unit Central Region

BA MA
64-
vrb/fb

**Re: Application for EPA Section 46 Approval -
Imperial Oil Port Credit Remediated Land Farm**

Dear Mr. Ryan;

In follow-up to our discussions and your October 4, 1996 letter outlining information requirements for obtaining an approval under Section 46 of the EPA please find here-in our application for our Port Credit, Mississauga land farm site.

The subject land farm (approximately 19 acres) is located within a larger area (approximately 133 acres) known as the 'North Property' which formed part of a former Port Credit petroleum refinery site operated by Texaco Canada Inc.. The Ministry of Environment and Energy is satisfied that the clean-up of the North Property including the land farm has been carried out to meet clean-up criteria for residential/parkland lands. This North Property has now been incorporated into to a municipal area Secondary Plan process currently being conducted by the City of Mississauga. The North Property, including the land farm is registered in the name of 172965 Canada Limited, a wholly-owned subsidiary of Imperial Oil Limited.

The order of the following alphabetized list is intended to generally follow the sequence of informational requirements noted in your outline.

A.

A report is enclosed (prepared by Golder Associates Ltd. dated May 26, 1997) outlining the history of the site, date of last use for waste disposal and a study report. This report includes a Site Plan, Figure. 1 and a land farm distribution of waste application (plan), Figure 2.

B.

A reference plan is enclosed (prepared by Tarasick, McMillan Limited -Ontario Land Surveyors) suitable for depositing at the Land Registry office.

C.

The current Land Farm site zoning is M1. The balance of the North Property is currently M1, R2 & R3
(see enclosed map)

D.

The zoning and use of surrounding lands is R1 & R2 Residential Single Family.

E.

There is not presently any application before the Municipality to amend the official plan. The current plan relative to the North Property is " to be determined".

F.

A legal property description and legal survey are included in the enclosed reference plan material (see B. above) prepared by Tarasick, McMillan.

G.

Imperial Oil's proposed indemnification agreement form is enclosed.

H.

The use of these lands is intended to be ' residential and/or park land '.

I.

As noted in the Golder Associates report (see A. above) all wastes have been removed in accordance with MOEE approvals.

J.

Our proposed EBR Abstract, consistent with MOEE EBR Guide Nov. '94, is proposed as follows;

Title:

Section 46 Ministerial approval to use a former Imperial Oil waste disposal site.

Short Description:

Imperial Oil has made application to the MOEE for Ministerial approval to reuse a 19 acre land farm area formerly licensed to Texaco Canada Inc.(Provisional certificate No. A 220108) for the disposal of waste located immediately west of Mississauga Road near Lakeshore Road in the Port Credit area of the City of Mississauga, Ontario. This land farm is contained within a larger former refinery site which ceased all operations in 1985. The land farm area under license received Texaco refinery derived wastes between 1972 and 1978. A land farm clean up program was completed in 1996 in accordance with Ministry requirements and the Ministry is satisfied that the clean-up has been carried out to meet clean-up criteria for residential/park land lands.

Purpose of Proposal

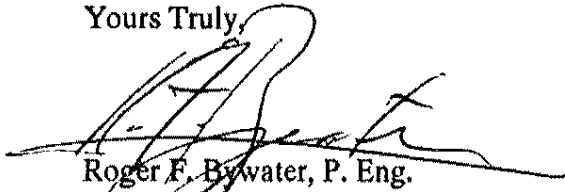
Having satisfied the Ministry's clean-up requirements and upon receiving the required Ministerial approval requirements governing reuse of former waste disposal sites, of which this notice serves as part, Imperial Oil intends to proceed with applicable municipal planning and zoning requirements associated with the placement of these lands back into productive reuse as residential and park land land.

Other Public Consultation:

Meetings have been held with multi-stakeholder groups, which include representatives from the community, municipality, the province and other interested parties to invite their comments.

We trust that the information contained in this application is sufficient for your staff to make a positive determination toward supporting the granting of our requested Section 46 approval. If your staff requires any clarification or wishes to comment on this application I can be contacted @ 416-968-8091. I would also appreciate your indication of the timing anticipated by your staff in completing this process through to final approval including an indication of how soon the EBR abstract can be placed on registry.

Yours Truly,



Roger F. Bywater, P. Eng.
Port Credit Property Manager

Enclosures

cc: John Budz, P. Eng. MOEE District Manager, Halton-Peel (with enclosures)



Imperial Oil

140
SI-HP-MS-M1 - 120
10 Mississauga Road

Imperial Oil
Products and Chemicals Division
10 Mississauga Road S.
Mississauga, Ontario
Canada L5G 4M6

R.S. Hall
Manager
Marketing Services

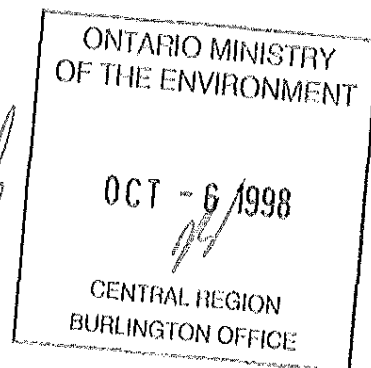
Engineering Services

Marketing Department

September 22, 1998

Mr. Gerry Healy
Halton-Peel District
Ministry of the Environment
1182 North Shore Blvd., East
Burlington, Ontario
L7R 3Z9

Gerry Healy
10/1/98



Dear Mr. Healy,

The following meeting notes, including attachments, are intended to document our June 17, 1998 meeting discussions and mutual understanding between Imperial Oil and the Halton-Peel district office of the MOE. If you disagree with any portion of these notes or have any comments, additions or omissions please notify the undersigned.

Subject: Port Credit (Surplus Site)

Meeting Location: Imperial Oil's offices located at 10 Mississauga Road

Attendees: MOE: Gerry Healy

IO: Roger Bywater, Peter Miasek, Siep Nyholt

O'Connor Associates (part time): Gary Karp, Ron McKee

Agenda:

This meeting was initiated by Imperial Oil for the purpose of continuing to review progress and obtaining a mutual understanding regarding specific general site management initiatives related to the subject Port Credit (former Texaco refinery) surplus site.

General:

The meeting was divided into two parts. The first dealing with status of various projects and programs as they relate to the management of the site. The second part (in the absence of O'Connor Associates) further discussed and reviewed project and site management issues with the MOE. Minutes to PART II were compiled by IO. Attachments are as follows:

Attachment I: Meeting Minutes PART I (compiled by O'Connor Associates)
South Property Monitoring Data

Attachment II: Environmental Regulatory Compliance and Commitment Managing System

Attachment III: Meeting Minutes PART I (compiled by Imperial Oil)

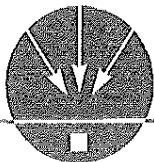
Yours truly,

A handwritten signature in black ink, appearing to read 'Siep Nyholt', written over a horizontal line.

Siep Nyholt
Site Remediation Specialist

cc: R. McKee, OAEI (I/att. III)
G. Karp, OAEI (I/att. III)
R. Bywater, IOL, Devon Estates
P. Miasek, IOL
J.Budz. MOE

Moepc98.doc



September 22, 1998

10-2936.11,7

MEETING NOTES - PART I

Att. I

DATE: 98/06/17

LOCATION: Imperial Oil Limited
10 Mississauga Road South
Mississauga, Ontario

RE: Former Texaco Refinery
PORT CREDIT, ONTARIO

ATTENDING:

Gerry Healy	Ontario Ministry of Environment (MOE)
Roger Bywater	Devon Estates
Peter Miasek	Imperial Oil (IOL)
Siep Nyholt	IOL
Ron McKee	O'Connor Associates Environmental Inc. (OAEI)
Gary Karp	OAEI

TOPICS DISCUSSED

1. Siep began the meeting with a review of the minutes from our last meeting of 97/06/05.

Environmental Compliance Status

2. Gerry asked about the PCBs stored on the South Property. Siep responded that IOL continues to store the PCBs onsite pending development of adequate alternatives.
3. Siep commented that IOL recommendations concerning future groundwater monitoring and sampling requirements with respect to the proposed Walkway on the South Property are pending. (See Item 6.)
4. Siep presented a table entitled *Environmental Regulatory Compliance and Commitment Managing System* (attached). The table outlines IOL's system of managing regulatory issues for the Port Credit site. Siep stated that the table is updated regularly. Gerry reviewed the table during the meeting.
5. Gary presented an overhead plan of the South Property along with tables illustrating the results of groundwater BTEX testing. Concentrations of BTEX in groundwater along the southern and eastern portions of the property were similar to previously reported values.

6. Siep stated that there have been no changes to the South Property monitoring or sampling program. The program may be re-evaluated when the Walkway plans are completed.
7. Siep noted that the Region of Peel has recently installed a new sewer line adjacent to the IOL South Property and no environmental issues were noted during the work.
8. Gary presented the following overview of Marketing Area site activities over the past year:

70 Wesley Street

- Groundwater monitoring at all onsite wells, and sampling of selected wells, were carried out on four occasions (July, September and December 97 and March 98).

Park Street

- The overburden pumping well located in the dewatering trench continued to operate satisfactorily.
- Groundwater monitoring of all onsite wells, and sampling of selected wells, were carried out on four occasions.

Orange and Green Lands

- One pumping well (in the bedrock cut-off trench) continued to operate on the Orange Lands.
 - Three bedrock pumping wells continued to operate on the Green Lands.
 - The pump-and-treat plant continued to operate satisfactorily.
 - Groundwater monitoring and sampling were carried out on four occasions.
 - Groundwater capture and chemistry were tracked after each monitoring event.
9. Gary also presented the following overview of learnings from the monitoring program:

70 Wesley Street

- Impacted groundwater continued to be captured by the overburden pumping well.

Park Street

- Impacted groundwater continued to be captured by the overburden and bedrock pumping wells.

Orange and Green Lands

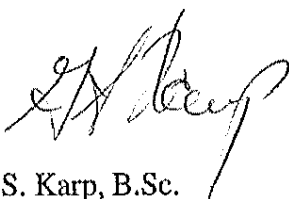
- The volume of water handled by the pump-and-treat plant was generally consistent throughout the year and similar to previous years.
- The plant effluent quality continually met the sanitary sewer use by-law.
- Groundwater flow cutoff continued to be achieved at the Orange / Green Lands boundary, as a result of the Orange Land and Park Street trenches and continual operation of the pumping wells.
- Average dissolved VOC concentrations did not change significantly over the past year.

10. Siep noted that the storm sewer which runs south across the Green Lands to the Shale Pit, was recently diverted to High Street as agreed to by the City of Mississauga and the Region of Peel.

We trust that the foregoing adequately represents the topics of discussion. If you have any questions or concerns, please do not hesitate to contact the undersigned.

Notes prepared by:

O'CONNOR ASSOCIATES ENVIRONMENTAL INC.


G.S. Karp, B.Sc.

Ronald C.E. McKee, P.Eng.

GSK:emn

Distribution: (8) Siep Nyholt

TABLE 1 (1 of 9)
HYDROCHEMICAL RESULTS
Groundwater Samples
(µg/L)

PARAMETER	MDL	SAMPLE LOCATIONS												GROUNDWATER GUIDELINES ^a	
		90-109						90-111						TABLE B	
		97/03/11	97/06/20	97/09/26	97/12/30	97/12/30 Dup.	98/03/05	98/06/30	97/03/11	97/06/20	97/09/26	97/12/30	98/03/05		98/06/30
Sample Date															
Benzene	0.2	<	<	<	<	<	<	<	<	<	<	<	<	<	(12 000) 1900
Toluene	0.4	<	<	<	<	<	<	<	<	<	<	<	<	<	(37 000) 5900
Ethyl Benzene	0.4	<	<	<	<	<	<	<	<	<	<	<	<	<	(50 000) 28 000
m&p-Xylene	0.5	<	<	<	<	<	<	<	<	<	<	<	<	<	-
o-Xylene	0.4	<	<	<	<	<	<	<	<	<	<	<	<	<	-
(Total) Xylenes	0.9	<	<	<	<	<	<	<	<	<	<	<	<	<	(35 000) 5600

a - MOEE Guideline for Use at Contaminated Sites in Ontario (February 1997). Full depth remediation criteria in a non-potable groundwater situation, industrial/commercial land use and coarse grained soil texture.

() - Criteria for fine to medium textured soil

MDL - Method Detection Limit

< - Less than method detection limit

BOLD - Exceeds selected criterion.

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TABLE 1 (2 of 9)
HYDROCHEMICAL RESULTS
Groundwater Samples
(µg/L)

PARAMETER	MDL	SAMPLE LOCATIONS												GROUNDWATER GUIDELINES ^a
		92-115						90-116						
		Sample Date	97/03/11	97/06/20	97/09/26	97/12/30	98/03/05	98/06/30	97/03/11	97/06/20	97/09/26	97/12/30	98/03/05	98/06/30
Benzene	0.2	<	<	<	<	<	<	<	<	<	<	<	<	(12 000) 1900
Toluene	0.4	<	<	<	<	<	<	<	<	<	<	<	<	(37 000) 5900
Ethyl Benzene	0.4	<	<	<	<	<	<	<	<	<	<	<	<	(50 000) 28 000
m&p-Xylene	0.5	<	<	<	<	<	<	<	<	<	<	<	<	-
o-Xylene	0.4	<	<	<	<	<	<	<	<	<	<	<	<	-
(Total) Xylenes	0.9	<	<	<	<	<	<	<	<	<	<	<	<	(35 000) 5600

a - MOEE Guideline for Use at Contaminated Sites in Ontario (February 1997). Full depth remediation criteria in a non-potable groundwater situation, industrial/commercial land use and coarse grained soil texture.

() - Criteria for fine to medium textured soil

MDL - Method Detection Limit

< - Less than method detection limit

BOLD - Exceeds selected criterion.

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TABLE 1 (3 of 9)

HYDROCHEMICAL RESULTS
Groundwater Samples
(µg/L)

PARAMETER	MDL	SAMPLE LOCATIONS														GROUNDWATER GUIDELINES ^a
		90-210						90-211								TABLE B
		97/03/11	97/06/20	97/09/26	97/12/30	98/03/05	98/06/30	97/03/11	97/06/20	97/06/20 Dup.	97/09/26	97/09/26 Dup.	97/12/30	98/03/05	98/06/30	
Benzene	0.2	<	<	<	<	<	<	55	44	46	0.2	26	82	56	120	(12 000) 1900
Toluene	0.4	<	<	<	<	<	<	0.7	0.6	0.6	<	<	<40	0.5	1.4	(37 000) 5900
Ethyl Benzene	0.4	<	<	<	<	<	<	<	<	<	<	<	50	<	<	(50 000) 28 000
m&p-Xylene	0.5	<	<	<	<	<	<	2.2	1.9	1.8	<	<	670	0.6	2.7	-
o-Xylene	0.4	<	<	<	<	<	<	<	<	<	<	<	<40	<	0.5	-
(Total) Xylenes	0.9	<	<	<	<	<	<	2.2	1.9	1.8	<	<	<710	0.6	3.2	(35 000) 5600

a - MOEE Guideline for Use at Contaminated Sites in Ontario (February 1997). Full depth remediation criteria in a non-potable groundwater situation, industrial/commercial land use and coarse grained soil texture.

() - Criteria for fine to medium textured soil

MDL - Method Detection Limit

< - Less than method detection limit

BOLD - Exceeds selected criterion.

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TABLE 1 (4 of 9)
HYDROCHEMICAL RESULTS
Groundwater Samples
(µg/L)

PARAMETER	MDL	SAMPLE LOCATIONS													GROUNDWATER GUIDELINES ^a
		90-212						90-217							TABLE B
Sample Date		97/03/11	97/06/20	97/09/26	97/12/30	98/03/05	98/06/30	97/03/11	97/06/20	97/09/26	97/12/30	98/03/05	98/06/30	98/06/30 Dup.	
Benzene	0.2	<	<	<	<	<	<	17	37	<	2.1	32	45	53	(12 000) 1900
Toluene	0.4	<	<	<	<	<	<	<	<	<	<	<4.0	<	<4.0	(37 000) 5900
Ethyl Benzene	0.4	<	<	<	<	<	<	2.4	1.7	<	<	<4.0	1.3	<4.0	(50 000) 28 000
m&p-Xylene	0.5	<	<	<	<	<	<	5.5	1.1	<	<	<5.0	<	<5.0	-
o-Xylene	0.4	<	<	<	<	<	<	0.5	<	<	<	<4.0	<	<4.0	-
(Total) Xylenes	0.9	<	<	<	<	<	<	6	1.1	<	<	<9.0	<	<9.0	(35 000) 5600

a - MOEE Guideline for Use at Contaminated Sites in Ontario (February 1997). Full depth remediation criteria in a non-potable groundwater situation, industrial/commercial land use and coarse grained soil texture.

() - Criteria for fine to medium textured soil

MDL - Method Detection Limit

< - Less than method detection limit

BOLD - Exceeds selected criterion.

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TABLE 1 (5 of 9)
HYDROCHEMICAL RESULTS
Groundwater Samples
(µg/L)

PARAMETER	MDL	SAMPLE LOCATIONS													GROUNDWATER GUIDELINES ^a
		90-218						92-309							TABLE B
		97/03/11	97/06/20	97/09/26	97/12/30	98/03/05	98/06/30	97/03/11	97/06/20	97/09/26	97/12/30	97/12/30	98/03/05 Dup.	98/06/30	
Benzene	0.2	<	<	<	<	<	<	<	<	<	<	<	<	<	(12 000) 1900
Toluene	0.4	<	<	<	<	<	<	<	<	<	<	<	<	<	(37 000) 5900
Ethyl Benzene	0.4	<	<	<	<	<	<	<	<	<	<	<	<	<	(50 000) 28 000
m&p-Xylene	0.5	<	<	<	<	<	<	<	<	<	<	<	<	<	-
o-Xylene	0.4	<	<	<	<	<	<	<	<	<	<	<	<	<	-
(Total) Xylenes	0.9	<	<	<	<	<	<	<	<	<	<	<	<	<	(35 000) 5600

a - MOEE Guideline for Use at Contaminated Sites in Ontario (February 1997). Full depth remediation criteria in a non-potable groundwater situation, industrial/commercial land use and coarse grained soil texture.

() - Criteria for fine to medium textured soil

MDL - Method Detection Limit

< - Less than method detection limit

BOLD - Exceeds selected criterion.

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TABLE 1 (6 of 9)
HYDROCHEMICAL RESULTS
Groundwater Samples
(µg/L)

PARAMETER	MDL	SAMPLE LOCATIONS												GROUNDWATER GUIDELINES ^a
		92-314						92-318						
		Sample Date	97/03/11	97/06/20	97/09/26	97/12/30	98/03/05	98/06/30	97/03/11	97/06/20	97/09/26	97/12/30	98/03/05	98/06/30
Benzene	0.2	<	<	<	<	<	<	6.1	15	<	<	<	<	(12 000) 1900
Toluene	0.4	<	<	<	<	<	<	<	<	<	<	<	<	(37 000) 5900
Ethyl Benzene	0.4	<	<	<	<	<	<	<	<	<	<	<	<	(50 000) 28 000
m&p-Xylene	0.5	<	<	<	<	0.5	<	<	<	<	<	<	<	-
o-Xylene	0.4	<	<	<	<	<	<	<	<	<	<	<	<	-
(Total) Xylenes	0.9	<	<	<	<	0.5	<	<	<	<	<	<	<	(35 000) 5600

a - MOEE Guideline for Use at Contaminated Sites in Ontario (February 1997). Full depth remediation criteria in a non-potable groundwater situation, industrial/commercial land use and coarse grained soil texture.

() - Criteria for fine to medium textured soil

MDL - Method Detection Limit

< - Less than method detection limit

BOLD - Exceeds selected criterion.

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TABLE 1 (7 of 9)
HYDROCHEMICAL RESULTS
Groundwater Samples
(µg/L)

PARAMETER	MDL	SAMPLE LOCATIONS												GROUNDWATER GUIDELINES ^a	
		92-320							92-321					TABLE B	
		97/03/11	97/06/20	97/09/26	97/12/30	97/12/30	98/03/05 Dup.	98/06/30	97/03/11	97/06/20	97/09/26	97/12/30	98/03/05		98/06/30
Sample Date															
Benzene	0.2	<	<	<	<	<	<	<	<	<	<	<	<	<	(12 000) 1900
Toluene	0.4	<	<	<	<	<	<	<	<	<	<	<	<	<	(37 000) 5900
Ethyl Benzene	0.4	<	<	<	<	<	<	<	<	<	<	<	<	<	(50 000) 28 000
m&p-Xylene	0.5	<	<	<	<	<	<	<	<	<	<	<	<	<	-
o-Xylene	0.4	<	<	<	<	<	<	<	<	<	<	<	<	<	-
(Total) Xylenes	0.9	<	<	<	<	<	<	<	<	<	<	<	<	<	(35 000) 5600

a - MOEE Guideline for Use at Contaminated Sites in Ontario (February 1997). Full depth remediation criteria in a non-potable groundwater situation, industrial/commercial land use and coarse grained soil texture.

() - Criteria for fine to medium textured soil

MDL - Method Detection Limit

< - Less than method detection limit

BOLD - Exceeds selected criterion.

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O'CONNOR ASSOCIATES



TABLE 1 (8 of 9)
HYDROCHEMICAL RESULTS
Groundwater Samples
(µg/L)

PARAMETER	MDL	SAMPLE LOCATIONS									GROUNDWATER GUIDELINES ^a
		92-322									TABLE B
Sample Date		97/03/11	97/06/20	97/06/20 Dup.	97/09/26	97/09/26 Dup.	97/12/30	98/03/05	98/06/30	98/06/30 Dup.	
Benzene	0.2	45	100	92	<	<	<	42	86	86	(12 000) 1900
Toluene	0.4	1.2	1.9	2	<	<	<	0.8	1.6	<1.6	(37 000) 5900
Ethyl Benzene	0.4	<	<0.8	<	<	<	<	<	<	<1.6	(50 000) 28 000
m&p-Xylene	0.5	0.8	1	1	<	<	<	<	0.6	<2.0	-
o-Xylene	0.4	0.9	1.3	1.3	<	<	<	0.5	1	<1.6	-
(Total) Xylenes	0.9	0.17	2.3	2.3	<	<	<	0.5	1.6	<3.6	(35 000) 5600

a - MOEE Guideline for Use at Contaminated Sites in Ontario (February 1997). Full depth remediation criteria in a non-potable groundwater situation, industrial/commercial land use and coarse grained soil texture.

() - Criteria for fine to medium textured soil

MDL - Method Detection Limit

< - Less than method detection limit

BOLD - Exceeds selected criterion.

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O'CONNOR ASSOCIATES



TABLE 1 (9 of 9)
HYDROCHEMICAL RESULTS
Groundwater Samples
(µg/L)

PARAMETER	MDL	SAMPLE LOCATIONS												GROUNDWATER GUIDELINES ^a	
		92-324							92-325					TABLE B	
		97/03/11	97/06/20	97/09/26	97/12/30 Dup.	97/12/30	98/03/05	98/06/30	97/03/11	97/06/20	97/09/26	97/12/30	98/03/05		98/06/30
Sample Date															
Benzene	0.2	<	<	<	<	<	<	<	<	<	<	<	<	<	(12 000) 1900
Toluene	0.4	<	<	<	<	<	<	<	<	<	<	<	<	<	(37 000) 5900
Ethyl Benzene	0.4	<	<	<	<	<	<	<	<	<	<	<	<	<	(50 000) 28 000
m&p-Xylene	0.5	<	<	<	<	<	<	<	<	<	<	<	<	<	-
o-Xylene	0.4	<	<	<	<	<	<	<	<	<	<	<	<	<	-
(Total) Xylenes	0.9	<	<	<	<	<	<	<	<	<	<	<	<	<	(35 000) 5600

a - MOEE Guideline for Use at Contaminated Sites in Ontario (February 1997). Full depth remediation criteria in a non-potable groundwater situation, industrial/commercial land use and coarse grained soil texture.

() - Criteria for fine to medium textured soil

MDL - Method Detection Limit

< - Less than method detection limit

BOLD - Exceeds selected criterion.

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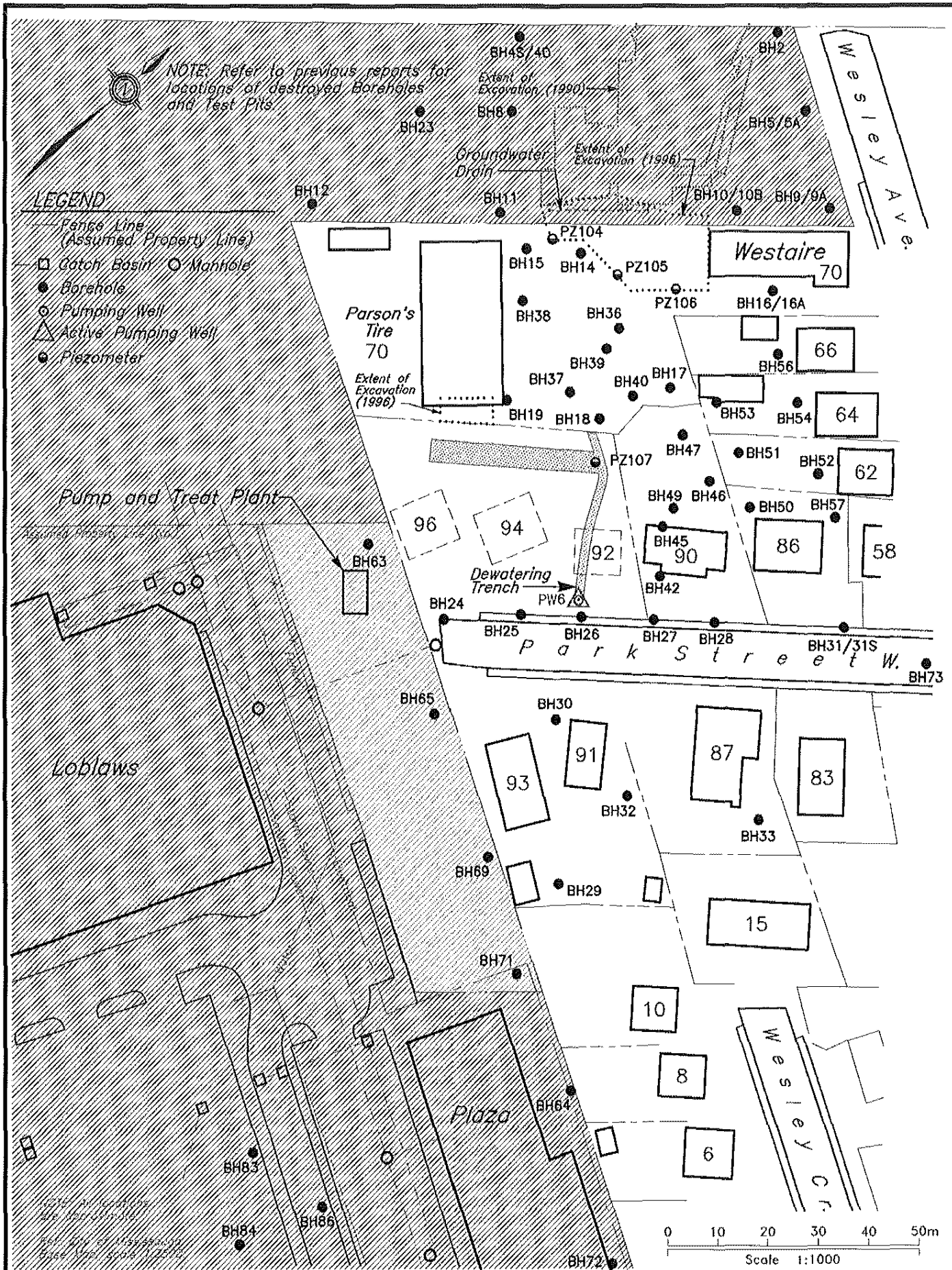


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000144

O'CONNOR ASSOCIATES





Site Plan
(Overburden Wells)



O'CONNOR ASSOCIATES

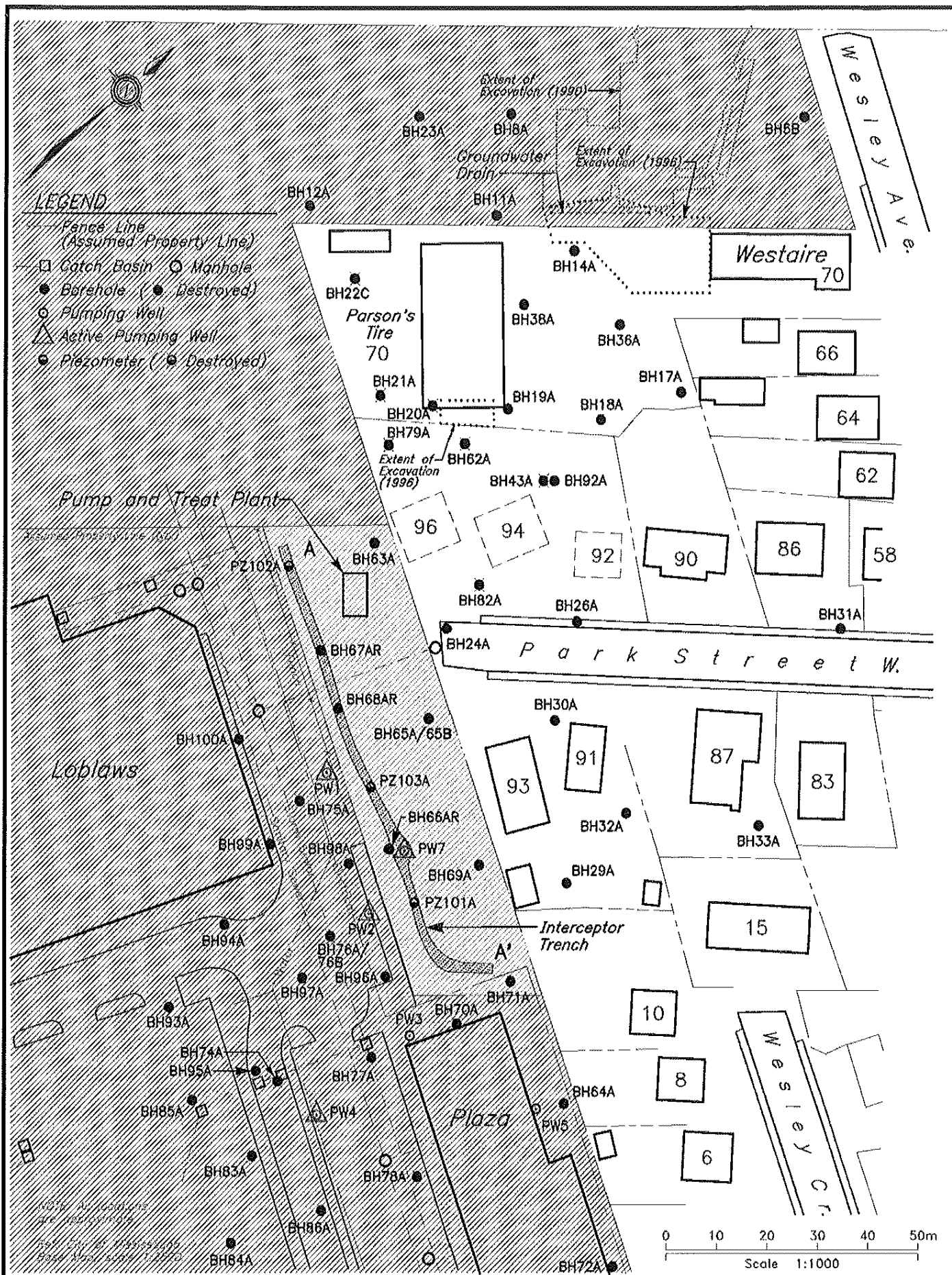
JOB NO.: 10-2936.1,9

DATE: 98/09/08

DRAWN BY: EFO

DWG. NO.: 1.1

000145



Site Plan
(Bedrock Wells)



O'CONNOR ASSOCIATES

JOB NO.: 10-2936.1,9

DATE: 97/09/09

DRAWN BY: EFO

DWG. NO.: 1.2

000146

Port Credit South Property

Port Credit Shale Pit Effluent Data

June 17, 1998

	MDL	Effluent Quality Objectives for Petroleum Refineries	Q3/97 97/09/17	Q4/98 97/11/24	Q1/98 98/03/16	Q2/98
TSS (mg/l)	2.0 mg/l	15mg/l	<	3.6	6.0 mg/l	pending

Environmental Regulatory Compliance & Commitment Managing System

Site: Port Credit (as of 03/31/98)

BY: S.J. Nyholt

Permit or Regulation	Responsibility	Reporting Requirements	Due Date	Required Data	File Location (includes procedures)	Date Submitted	Notes: Revision Date:
Site No.302-86A006 PCB Storage	SJN	Annual MOEE	Jan.31	confirmation of monthly inspections	P.C. NB103F	Jan.25/98 (last)	Monthly inspections documented
PTTW 94-P-3017 S.P. P&T take water	SJN	Changes or Exceedances (exception based) MOEE	Changes within 30 days, exceedances forthwith	daily volumes >50m³	P.C. NB119F	N/A	Expires 3/31/04
Peel 90-90 & 96' site specific criteria S.P. P&T	SJN	volumes - quarterly quality - semi annual. (data on file) Region of Peel	vol. - 15th of month following each qtr. qual. - May & Nov.	Meter readings (qual. data on file)	P.C. NB119F	April 6/98' (last)	Expires 12/31/99' (new) (apply by Nov.1/99')
Peel 90-90 & 96' site specific criteria Mktg. Area P&T	SJN	volumes - quarterly quality - semi annual. (data on file) Region of Peel	vol. - 15th of month following each qtr. qual. - May & Nov.	Meter readings (qual. data on file)	P.C. NA276F P&T S.P. -96'	April 6/98' (last)	No expiry
PTTW 92-P-3030 Take water from Lake Ontario	SJN	Changes or Exceedances (exceptn. based) MOEE	Changes within 30 days, exceed. forthwith	daily volumes	P.C. NA288F	N/A	Expires 3/31/02
Registration ON1315723 Subject Waste Generator Reg.	SJN	As and when waste generated (manifest) MOEE	per event	as required on Manifest	P.C. NA 288F	Date of reg. 2/3/92	
"Effluent Quality Objectives for Petroleum Refineries" Shale Pit - Effluent	SJN	Per 6/3/96 spec rpt. exceedances forthwith, MOEE	Qrtly. (internal, on file)	spec. re: 6/3/96 MOEE ltr.	P.C.	Held on file	Q1/98' TSS meets criteria
OTHER							
Mktg. Area P&T performance	SJN	Exception/ progress mtg. basis MOEE	Qrtly. (on file)	quality/status	P.C.		
South Property perimeter monitoring	SJN	Exception/ progress mtg. basis MOEE	Qrtly. (on file)	quality/status	P.C.		
Abnormal discharge to air, water or ground	SJN	Potential for adverse impact to be rpt'd forthwith, MOEE	Forthwith	analytical results, cause & effect (where applicable)	P.C.	n/a	exception based, e.g. equip. leaks, excavation discoveries etc.

Att. II



Imperial Oil
Products and Chemicals Division
10 Mississauga Road S.
Mississauga, Ontario
Canada L5G 4M6

R.S. Hall
Manager
Marketing Services

Engineering Services

Marketing Department

Att. III

September 22, 1998

MEETING NOTES - PART II

DATE: 98/06/17

LOCATION: Imperial Oil Limited
10 Mississauga Road South
Mississauga, Ontario

RE: Port Credit (Surplus Site)

ATTENDING: Gerry Healy Ministry of Environment (MOE)

Roger Bywater Imperial OIL (IO)
Peter Miasek Imperial OIL (IO)
Siep Nyholt Imperial OIL (IO)

1. South Property

R. Bywater confirmed that the status of the proposed Walkway remains unchanged and is in the hands of the City of Mississauga.

2. Marketing Area

70 Wesley:

S. Nyholt reported that the Parson's Tire portion of the 70 Wesley site was now vacant and IO would be completing an assessment of area under the building floor and sections of the property perimeter in order to re-evaluate the delineation of solvent impact. Work is expected to be completed in July of 1998. Pending results, it is expected IO would then proceed with the Phase II remediation of solvents impact in Q3/98'. All protocols of the original Phase I remediation program would be followed.

"Section 17"

S. Nyholt reported that IO was undertaking a study of the area in the Red Lands known as "Section 17" and planned to conduct a test pit program of the area in August 98'. IO felt that based on experience gained from previous bedrock excavation work, it would be beneficial to re-assess impact and determine if there were any changes from the original 1987 assessment. A recent phone conversation with Mr. John Budz of the MOE supported this initiative. Assessment and pending verification criteria would be based on original MOE 43 criteria for the site. IO will request MOE to participate in final verification process.

Park St. / Orange Lands

S. Nyholt commented that it was IO's plan to proceed with remediation of the Park St. properties (92,94 & 96) and the Orange Land property subsequent to the 70 Wesley work. It is expected that this would occur in 1999.

3. North Property

S. Nyholt reported that the abandonment of the remaining 21 boreholes was completed in the North Property in accordance with Ontario Regulation 309.

R. Bywater reported that the Section 46 application was submitted in June 1997 and is progressing through the MOE.

Notes prepared by S. Nyholt



Ministry
of the
Environment

Ministère
de
l'Environnement

Ontario

Certificate of Approval (Air)
Certificat d'autorisation (Air)

Number / Numéro

8/300/337/84/846

Owner/Operator / Propriétaire/exploitant:

Texaco Canada Inc.
250 Lakeshore Road West
Mississauga, Ontario
L5G 4M6

This approval is for / La présente autorisation s'applique:

The installation of a cone, having an exit diameter of 0.915 m. on an existing brick stack 90 m. above grade serving #6 oil fired boilers operating at a maximum capacity of approximately 1939 litres/hour.



Located at / Situé(e)(s) à:

10 Mississauga Road South, Mississauga, Ontario

Your application has been reviewed on the basis of the information submitted and is approved under Section 8 of the Environmental Protection Act, subject to the terms and conditions stated below.

Nous avons étudié votre demande à la lumière des renseignements présentés et l'avons approuvée aux termes de l'article 8 de la Loi sur la protection de l'environnement, sous réserve toutefois des modalités et conditions stipulées ci-dessous.

THIS IS A TRUE COPY OF THE
ORIGINAL CERTIFICATE MAILED

ON NOV 28 1984

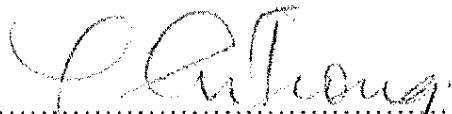
(Signed) 

DATED AT TORONTO this
DATE À TORONTO ce

nineteenth

day of
jour d

November, 1984.



Director / Directeur

000152



APPROVALS RECORD FOR
EMISSION INVENTORY UPDATE

FORM UP-12

☒

Region

☐

District

Company Name: Texaco Canada

Source Location: Mississauga Road, South

Contact: Mr. J. D. Booth

Telephone: 278-5511

Nature of Business: _____

Type of Equipment for Approval: _____

Combustion

Process

Incineration

New

☐

New

☐

New

☐

Modification

☒

Modification

☐

Modification

☐

General Description: Cone on stack

Equipment Production ☐ or Feed ☐ Rate: 1b/hr Quantity/yr: _____

Specify kind of product ☐ or Feed ☐ _____

Control Equipment: _____

Estimated Efficiency _____

PART A Preliminary Assessment - Regional Office

Type of Application

☐ Simple, complete Part B

Significant
Pollutants
(lb/yr)

☐ Complex, forward to Environ-
mental Approvals Branch

Application Attached

Yes ☐

No ☐

Part _____

Form Initiated By: _____

Date: _____

HC _____

NO_x _____

CO _____

Other _____

PART B Approval

Application No: 8/300/337/84/846

Anticipated Completion Date: December, 1984

Application Confirmation: Approved ☒ Cancelled ☐ Denied ☐

Comments: _____

Approved By: A.K. Gent

Date: 19 November, 1984.

PART C Air Resources Branch

New Source Logged: _____ Date: _____

Update Requested _____ Date: _____

Date Completed: _____

PART D Installation Check - District Office

☒ Satisfactory

☐ Not operational

☐ Unsatisfactory

Comments: _____

Inspected by: R. Graham

Date: 16th Jan 85.



ENGINEERING ASSESSMENT

INDUSTRY Texaco Canada Inc.

8/300/337/84/846

APPLICATION NO. _____

MUNICIPALITY Mississauga Road South

DATE REC'D. 2/Nov/84

Mississauga

PREPARED BY A.K. Gent

DATE 19/Nov/84

This application is for stack modifications:-

Existing Boilers

5 - all #6 oil fired

Total Maximum Capacity - 315,000 lbs/hr. steam.

By virtue of major refinery production cut backs - total steam now required is:-

WINTER - 60,000 lbs/hr.

Summer - 40,000 lbs/hr.

Existing Stack

Height above grade - 90m.

Height above roof - 83m.

Exit Diameter - 2.4m.

Proposal - To install a cone on existing stack.

Cone - Lower diam. - 2.135
Height - 1.32 m
Exit diam. - 0.915 m

Exit Velocity - Winter (60,000 lbs load) 17.09 m/sec.
Summer (40,000 lbs load) 11.04 m/sec.

Breeching Temp. - 218°C.

Stack Exit Temp - 149°C/

Stack to Property Line - Approx. 308 M.

General

The original boiler plant stack was M.O.E. approved several years ago - SO₂ concentrations being within limits of 830 UGS/M³. By virtue of the much reduced steam demand and consequent low exit velocity - the proposal is considered to represent an improvement in operating parameters.

Rec for C of A

A.K. Gent



Ministry
of the
Environment

Please return to:

FOR OFFICE USE

Application No.

Date Received

Application for a Certificate of Approval (A/C)
FOR COMBUSTION EQUIPMENT

In accordance with the Environmental Protection Act, 1971

The undersigned applies for approval of plans and specifications, submitted herewith in duplicate, for the construction of:

- ☐ New combustion facilities
☒ Modifications to existing combustion facilities

The following information is submitted:

1. Owner of combustion equipment TEXACO CANADA INC.
250 Lakeshore Road West, MISSISSAUGA, Ontario. L5G 4M6 416-278-5511
(Postal address) (Telephone No.)
2. Location of combustion equipment Mississauga Road South
(Street & No.) or (Lot & Concession No.)
MISSISSAUGA Peel
(City, Town or Township) (County)
3. Name of Applicant I.T. Holmes
(Please print)
250 Lakeshore Road West, Mississauga, Ontario. L5G 4M6 416-278-5511
(Postal address) (Telephone No.)
4. Plans and specifications prepared by I.T. Holmes
(Name)
250 Lakeshore Road West, MISSISSAUGA, Ontario. 416-278-5511
(Postal address) (Telephone No.)
5. Combustion Equipment for which approval is required:

	No. of Units	Manufacturer & Model No.	Total Kilojoule (KJ) Rating
Boiler	-		
a) Oil Burner	-		
b) Gas Burner	-		
c) Stoker	-		
Unit Heater	-		
Duct Heater	-		
Heating and Cooling Unit	-		

Other equipment Stack exit cone - 300 foot stack
Drawings and Manufacturer's data for combustion equipment must be included. See Item 4

6. Fuel Data
- (a) Gas Equipment: Total Maximum Rate * standard cu. metres per hour (m³/h) or Total Maximum Input * Kilojoules (KJ) per hour
- (b) Oil Equipment: Grade No. HF06C Sulphur Content Maximum 2.0 % Average 1.5 %
 Total Maximum Rate 1939 litres per hour (L/Hr.) Oil preheat temp. 100 °C.
 (s)
 Does burner modulate? Max. 1939 Min. 1280 litres per hour (L/Hr.)
 YES: On Bailey Control
- (c) Other pertinent information

Additional information enclosed: ☐ YES ☒ NO

7. Accessories and Controls (where applicable)

Damper		Draft		Overfire - Jets	
Manual	-	Natural	-	Steam-Air	
Automatic	X	Forced	No. 3, 4, & 5 boiler	Steam	X
Barometric	-	Induced	No. 5 Boiler	Air	

Boiler Room Ventilation: How introduced? Grille Free area? .18 m²
 NOTE: Combustion air is outside air (Window, Duct, Grille, Mechanical) entering boilers from outside building.

9. Pollution Control Equipment (if applicable)

Type and Manufacture Drawings and Manufacturers data are to be included.
 Collection efficiency

10. Chimney or Stack For Which Exit Cone is Proposed

(a) Material of construction concrete column ext. brick column int. New - Existing X
 Height above roof 83 metres(m.) Height above grade 90 m. is stack insulated? No
 Type of insulation - Thickness - Inside dimensions at exit 8'-0"

(b) Quantity of stack gases 435.98 Std. cu. metres per minute (m³ per min.) at 0°C, 1atm
 Temperature of exhaust gases at stack exit 149 °C (Full load)
 Temperature at breeching 218 °C (Full load)
 Stack exit velocity 17.09 m./second (Full load)(with cone at 300°F, 1atm)

(c) If oil fired —

Temperature at stack exit 149 °C (Low load)
 Temperature at breeching 218 °C (Low load)
 Stack exit velocity 11.04 m./second (Low load) (at 300°F, 1atm)

(d) If there are other boilers exhausted to this stack, or if there are other boilers in this boiler house or plant exhausting to other stacks, give:

The number of boilers, type of fuel and maximum firing rate for each boiler, details of each stack (height above grade and above roof, diameter at the exit, etc.) See attached Data Sheet (item 1)

Additional information enclosed: ☒ YES ☐ NO

(e) Other pertinent information See attached Data sheet (Item 1)

Additional information enclosed: ☒ YES ☐ NO

1. Building Dimensions Length 40 metres(m.) Height 7 m. Width 15 m.

* Not normally used.

12. Receptors on Owner's Property

Distance from the emission point to the nearest critical receptor (air intake, open/shut window, door, etc.) 15 m.

Is there any other building on the property Yes at grade

A plot, roof, and elevation plan, drawn to scale, and showing the emission points and distances from them to critical receptors (air intakes, open/shut windows, door, etc.) on the attached building and other on-property buildings, must be included. The distance from the points of emission to all property lines must be indicated. See Item 2

13. Surrounding Land Use

Distance from stack to nearest building 90 metres(m.)
 Height of nearest building 10 m.
 Distance from stack to nearest building higher than the stack 1200 m.
 Height of this building 90 m.(approx)

Land use: Commercial X
 Residential X
 Industrial X
 Agricultural X

A plan showing the relation of the points of emission to structures in the immediate neighbourhood must be supplied. This should include distances from the points of emission to the structures in question and the heights of the structure relative to the ground level elevation at the points of emission. "Immediate neighbourhood" means that area around the installation likely, to be affected by air-borne emissions from the installation. See Item 2

14. Estimate of Capital Cost For Stack Exit Cone

Combustion equipment cost	\$ <u>19,000 (installed)</u>	Control equipment	\$ <u>-</u>
Labour	\$ <u>see above</u>	Labour	\$ <u>-</u>
Other	\$ <u>-</u>	Other	\$ <u>-</u>
Total	\$ <u>19,000</u>	Total	\$ <u>-</u>

15. (A) Expected starting date for installation of proposed combustion equipment November 15, 1984
 (B) Expected completion date November 21, 1984

I hereby declare that the plans, specifications and information stated in this application are true and complete in every respect.

Date October 29, 1984

Signature

J. T. McInnes P. Eng.

Title Plant Engineer.

CHECK LIST TO BE USED BY APPLICANT IN ASSEMBLING COMPLETED APPLICATION

- ☐ (1) Plot, roof, and elevation plans showing property lines and emission points, and critical receptors related to on-property structures.
- ☐ (2) Plans showing the relation of the points of emission to off-property structures in the immediate neighbourhood.
- ☐ (4) Drawings and manufacturers data for all combustion and pollution control equipment.
- ☐ (4) Application — duly signed.

FOR OFFICE USE ONLY

Approval of application

recommended on 19

Examiner



Ministry of
Environment
and Energy

Ministère de
l'Environnement
et de l'Énergie

Hakim Reel
CERTIFICATE OF APPROVAL

AIR

NUMBER 8-3149-95-006

Page 1 of 5

ONTARIO MINISTRY
OF THE ENVIRONMENT

JUN 23 1995

CENTRAL REGION
OAKVILLE OFFICE

Maple Engineering & Construction Canada Ltd.
201 County Court Boulevard
Suite No. 600
Brampton, Ontario
L6W 4L2

BA-MA
E.H. De-Gott.
SH-DA
not off

Located at:

10 Mississauga Road South
Mississauga, Ontario

You have applied in accordance with Section 9 of the Environmental Protection Act for approval of:

- pilot-scale testing of one (1) biological groundwater treatment unit (bioreactor) having a filter media of 1.38 cubic metres, consisting of one (1) air blower and equipped with one (1) carbon adsorption unit (canister) containing 68 kilograms of granular activated carbon, for the decontamination of hydrocarbon contaminated groundwater. The blower exhausts into the atmosphere at a maximum volumetric flow rate of 0.003 cubic metre per second through a stack having an exit diameter of 0.05 metre, extending 2 metres above the roof and 7.85 meters above grade.

All in accordance with the application for a Certificate of Approval (Air) signed by John Haanstra, dated February 20, 1995 and supporting information.

You are hereby notified that this approval is issued to you subject to the terms and conditions outlined below:

TERMS AND CONDITIONS

1. For the purpose of this Certificate of Approval:
 - a. "Act" means the *Environmental Protection Act*;
 - b. "Breakthrough" means the total hydrocarbon concentration in the outlet stream from the activated carbon adsorption unit is equal to or greater than 75 percent of the total hydrocarbon concentration in the inlet stream to the activated carbon adsorption unit;
 - c. "Certificate" means this Certificate of Approval, including Schedule "A" issued in accordance with Section 9 of the Act;
 - d. "Company" means Maple Engineering & Construction Canada Ltd.;

- e. "Equipment" means the bioreactor described in the Company's application, this Certificate and in the supporting documentation referred to herein, to the extent approved by this Certificate;
- f. "Ministry" means the Ontario Ministry of Environment and Energy;
- g. "Service Life" means the time interval between the installation of an activated carbon adsorption unit and the point at which Breakthrough of the unit is detected;
- h. "Unit" means one (1) activated carbon adsorption unit (canister) to receive vapour extracted from the hydrocarbon contaminated groundwater;
- i. "Vapour Stream Physical Parameters" means the following parameters:
 - i. pressure;
 - ii. temperature;
 - iii. volumetric flow rate;
 - iv. relative humidity.

OPERATION AND MONITORING

- 2. The Company shall measure:
 - a. the Vapour Stream Physical Parameters; and
 - b. the total hydrocarbon concentration;
 at the inlet and outlet of the Unit in accordance with the methods set out in Schedule "A" of this Certificate.
- 3. The Company shall operate and monitor the Equipment in accordance with the following requirements:

ESTIMATION OF INITIAL SERVICE LIFE

- a. Upon the commencement of operation of the Equipment, the Company shall:
 - i. measure and record the Vapour Stream Physical Parameters and the total hydrocarbon concentration at the inlet and outlet of the Unit; and
 - ii. monitor the Unit for Breakthrough.

- b. The Company shall perform the measurements and monitoring set out in Condition No. 3(1) at a minimum frequency of once daily only until such time that the Company has collected sufficient data to estimate the Service Life of the initial Unit.

REPLACEMENT OF NEW UNIT

- c. After developing an estimated Service Life for the initial Unit, the Company shall replace the new Unit in accordance with the following procedure:
 - i. replace the initial Unit and each subsequent Unit when one half of the estimated Service Life, based on the measurements set out in Condition No. 3(1) and Condition No. 3(2), has elapsed;

GENERAL

- d. The Company shall not permit Breakthrough of the Unit to occur at any time during the operation of the Equipment.

MAINTENANCE

- 4. The Company shall ensure that the Equipment is properly operated and maintained at all times. The Company shall, as a minimum:
 - a. prepare, not later than three (3) months after the commencement of operation of the Equipment and update, as necessary, a manual outlining the operating procedures and a maintenance program for the Equipment, including the frequency of replacement of the filter media in the bioreactor and the replacement of the Unit;
 - b. implement the recommendations of the operating and maintenance manual; and
 - c. retain, for a minimum of two (2) years from the date of their creation, all records on the maintenance, repair and inspection of the Equipment.

RECORD RETENTION

- 5. The Company shall retain, for a minimum of two (2) years from the date of their creation, all records and information related to or resulting from the monitoring and recording activities required by this Certificate. These records shall be made available to staff of the Ministry upon request. The Company shall retain, as a minimum:

CERTIFICATE OF APPROVAL

A I R

NUMBER 8-3149-95-006

Page 5 of 5

In accordance with Section 139 of the Environmental Protection Act, R.S.O. 1990, Chapter E-19, as amended, you may by written Notice served upon me, the Environmental Appeal Board and in accordance with Section 47 of the Environmental Bill of Rights, S.O. 1993, Chapter 28, the Environmental Commissioner, within 15 days after receipt of this Notice, require a hearing by the Board. The Environmental Commissioner will place notice of your appeal on the Environmental Registry. Section 142 of the Environmental Protection Act, provides that the Notice requiring the hearing shall state:

1. The portions of the approval or each term or condition in the approval in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

The Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The Certificate of Approval number;
6. The date of the Certificate of Approval;
7. The name of the Director;
8. The municipality within which the works are located;

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary,
Environmental Appeal Board,
112 St. Clair Avenue West,
Suite 502,
Toronto, Ontario.
M4V 1N3

The Environmental Commissioner,
1075 Bay Street,
Suite 605,
6th Floor,
Toronto, Ontario.
M5S 2W5

The Director,
Section 9, *Environmental Protection Act*,
Ministry of Environment and Energy,
250 Davisville Avenue, 3rd Floor,
Toronto, Ontario.
M4S 1H2

This instrument is subject to Section 38 of the Environmental Bill of Rights, that allows residents of Ontario to seek leave to appeal the decision on this instrument. Residents of Ontario may seek to appeal within 15 days from the date this decision is placed on the Environmental Registry. By accessing the Environmental Registry, you can determine when the leave to appeal period ends.

The above noted works are approved under Section 9 of the Environmental Protection Act.

DATED AT TORONTO this 14th day of June, 1995.

THIS IS A TRUE COPY OF
THE ORIGINAL CERTIFICATE
SIGNED BY
P. DEANGELIS, P. ENG.

MAILED ON

BY

ST/an

cc:-Supervisor, Approvals & Pesticides Management, MOEE C Region GH June 21/95 000162



Ontario

Ministry of
Environment
and Energy

Approvals Record for Emission Inventory Update

		<input checked="" type="checkbox"/> Region	<input type="checkbox"/> District
Company Name <i>Maple Engineering & Construction Canada Ltd.</i>		Source Location <i>Mississauga, Ont.</i>	
Contact		Telephone Number	
Nature of Business			
Type of Equipment for Approval Combustion <input type="checkbox"/> New <input type="checkbox"/> Modification <input type="checkbox"/> Process <input type="checkbox"/> Incineration <input type="checkbox"/>		General Description <i>new pilot-scale testing of one (1) bio-reactor</i>	
Equipment Production <input type="checkbox"/> or Feed <input type="checkbox"/>		Rate: Quantity/hour	Quantity/year
Specify kind of: Product <input type="checkbox"/> or Feed <input type="checkbox"/>			
Control Equipment		Estimated Efficiency	

Part A Preliminary Assessment – Regional Office

Application Attached <input type="checkbox"/> Yes <input type="checkbox"/> No	Type of Application <input type="checkbox"/> Simple (Complete Part B) <input type="checkbox"/> Complex (Forward to Approvals Br.)	Significant Pollutants (g/s) <input type="checkbox"/> SO ₂ <input type="checkbox"/> Part <input checked="" type="checkbox"/> HC <input type="checkbox"/> CO <input type="checkbox"/> NO _x <input type="checkbox"/> Other
Form Initiated by	Date	<i>0.0042</i>

Part B Approvals Branch

Application No. <i>8-3149-94-006</i>	Anticipated Completion Date
Application Confirmation <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Cancelled <input type="checkbox"/> Denied	
Comments <i>Conditional 1 of 2</i>	
Approved by <i>S. T. B.</i>	Date <i>June 16/91</i>

Part C Air Resources Branch

New Source Logged	Date
Update Requested	Date
Date Completed	

Part D Installation Check – District Office

<input type="checkbox"/> Satisfactory <input type="checkbox"/> Not operational <input type="checkbox"/> Unsatisfactory	
Comments	
Inspected by	Date

ENGINEERING ASSESSMENT
#8-3149-95-006

Applicant: Maple Engineering & Construction Canada Ltd.
Municipality: Mississauga
Prepared By: S. Tieu
Date: June 8, 1995

Proposal:

- this application is made for the pilot-scale testing of one (1) biological groundwater treatment unit (bioreactor) having a filter media of 1.38 cubic metres, consisting of one air blower and equipped with one (1) carbon adsorption canister containing 68 kilograms of granular activated carbon, for the decontamination of hydrocarbon contaminated groundwater. The blower exhausts into the atmosphere at a maximum volumetric flow rate of 0.003 cubic metre per second through a stack having an exit diameter of 0.05 metre, extending 2 metres above the roof and 7.85 meters above grade.

Process:

- hydrocarbon contaminated groundwater containing benzene, toluene, xylene, ethylbenzene is pumped into a bioreactor containing filter media, then gone through an activated carbon canister prior to discharge into the atmosphere (see attached flow diagram).
- the filter media is a proprietary product which can be described as a porous polyurethane foam formed in sheets of approximately 2" thick. Volume of filter media is 1.38 m3.

Emission:

- Since the height of the stack is less than twice the height of the building, Virtual Source dispersion calculation is applied and the glc of exhaust contaminants at the nearest property line were determined:

Contaminant	Emission rate (g/s)	GLC at the nearest property line (ug/m3)	MOEE Limit 1/2 hr point of impingement (ug/m3)
benzene	0.00022	0.21	48
toluene	0.0012	1.13	2000
xylene	0.0014	1.32	2300
ethylbenzene	0.0014	1.32	4000

- emission rate estimate of benzene is provided by the proponent and based on the worst case of 200 ppm of benzene concentration present in the contaminated groundwater and the benzene evaporation rate. It is noted that the supplier of the activated carbon drum filter has guaranteed a removal efficiency of 99.99%. However, a conservative 95% removal efficiency is assumed by the proponent. Emission rate estimate of toluene, xylene and ethylbenzene are based on the worst case of 100 ppm concentration present in the exhaust stream after the activated carbon drum filter,

District Office:

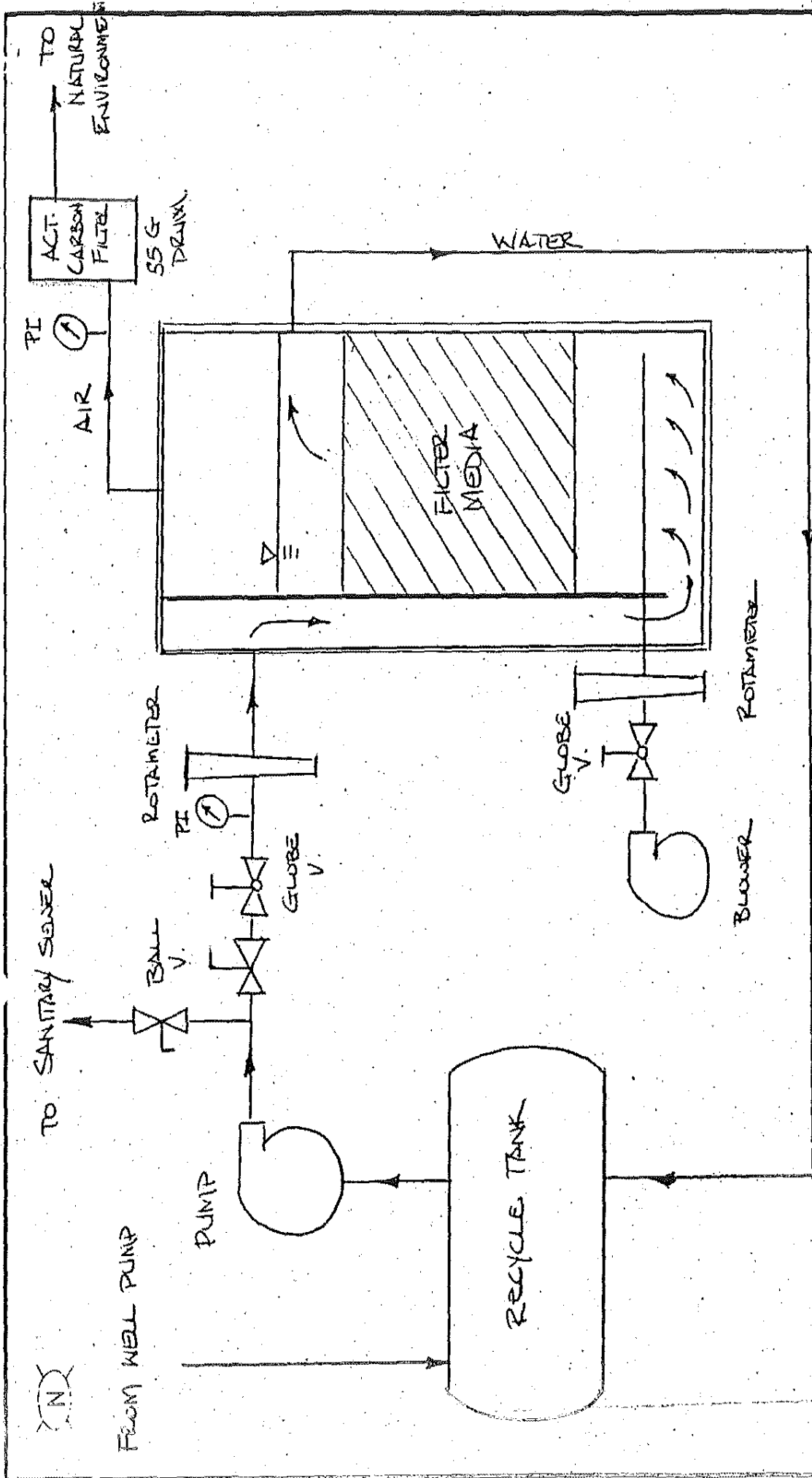
- D. Guimond of Halton-Peel District Office has no concerns with this application.

EBR:

- this proposal is subjected to EBR. No comment is received at the end of the commenting period (May 24, 1995).

Recommendation:

- based on the glc of exhaust contaminants at the nearest property line were in compliance with the MOEE limits, a conditional Certificate of Approval is thus recommended.
- Since the purpose of the pilot-scale testing of the bioreactor is to evaluate the long-term efficiency of the unit a condition requiring activated carbon breakthrough monitoring is therefore necessary to be included in the C of A.



FLOW SCHEMATIC
(INFO ONLY)

TITLE:	BIOREACTOR FLOW SCHEMATIC	CLIENT:	MAPLE ENGINEERING	DATE:	JAN 27/95	JOB No.:	650	DRG. No.:	F-1
				BY:	TD				



Ministry of
Environment
and Energy

Ministère de
l'Environnement
et de l'Énergie

SCHEDULE "A"

This Schedule "A" forms part of
Certificate of Approval (Air) Number 8-3149-95-006.

Vapour Stream Physical Parameters:

- (1) pressure;
- (2) temperature;
- (3) volumetric flow rate.

measured in accordance with EPA Stationary Source Sampling Methods Method 2A, Method 2C or Method 2D, or Ontario Source Testing Code Method 2.

Vapour Stream Physical Parameters:

- (4) relative humidity.

measured in accordance with Ontario Source Testing Code Method 4, Appendix 4A, Procedure (iii), Procedure (iv) or Procedure (v).

Total Hydrocarbon Concentration:

measured in accordance with EPA Stationary Source Sampling Methods Method 25, Method 25A or Method 25B.



Ministry of
Environment
and Energy

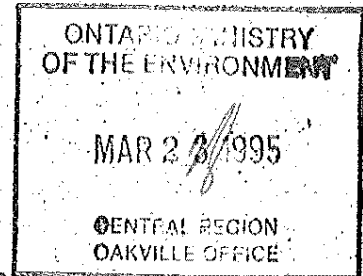
Ministère de
l'Environnement
et de l'Énergie

250 Davisville Avenue
Toronto ON M4S 1H2

250, avenue Davisville
Toronto ON M4S 1H2

APPROVALS BRANCH
3RD FLOOR
TEL: (416) 440-3718
FAX: (416) 440-6973

Faxed 03-28



13 Mar 1995

DISTRICT OFFICER

Tom Dooley, P.Eng.
Project Manager
MAPLE ENG. & CONSTRUCTION CANADA LTD.
201 County Court Boulevard
Suite #600
Brampton, Ontario
L6W 4L2

Should Regional response not be received within two (2) weeks from the date of the attached acknowledgement letter, the application will be processed and a Director's decision rendered without Regional input.

Dear Sirs:

We acknowledge receipt of your application for Approval and fee in the amount of \$190.00, on 02/27/95, for the following:

Industrial Air
10 MISSISSAUGA ROAD SOUTH
PILOT SCALE TEST OF G-WATER TREAT. UNIT

A duplicate copy of your submission should also have been forwarded to your local District Office. If this has not been done, please do so as soon as possible. A copy of any additional information requested should also be forwarded to the District Office.

The Ministry's reference number for your application is 8-3149-95. Please quote this number in any correspondence or enquiries regarding this application.

We have screened your submission for completeness and find that the information outlined on the attached form is required. This information is necessary for us to process your application.

Please be advised that should we not receive the above information or a response with explanations within two weeks of the above date, your file will be closed.

Should you have any questions related to your application, please contact the reviewer named in the attached form.

Advised by D. Gaudin that there are no anticipated problems/concerns.

SH 03-28-95

Sincerely

Brad Ross
Information Officer

cc: District Manager

cc: Geoff Carpentier, Central Region



0761LB (01/95)

100% Unbleached Post-Consumer Stock

000168



Ontario

Ministry of
Environment
and EnergyAcknowledgement Summary
Air

23 12166

Name of applicant MAPLE ENG & CONSTRUCTION CANADA LTD	Application number 8 3149 95
---	--

Your application has been screened and determined complete. Additional information may be required as a result of the detailed technical review.

☐ Application complete ☐ Anticipated completion _____ weeks

The information noted ☒ below is required as a result of screening the application. Additional information may be required as a result of the detailed technical review.

☐ Application Incomplete ☐ Application to be returned ☐ Yes ☐ No

☐ Copy of Acknowledgement Summary

To: John Haanstra /

FAX No. (905) 457-8498

To: Tom Dooley

FAX No. ()

Missing Information	
A. General	
Refer to comments and / or on reverse side	
Application form	
Approval fee	
Proof of legal name	
Signature	
B. Detailed description of proposal	
Data sheets / equipment specifications	
Emission information / emission table	
Mechanical / acoustical specifications for equipment	
Process flow diagram	
Proposed noise and vibration control measures	
Site, plot, roof and elevation plans	
Land use zoning designation plan	
Other	

Name of Review Engineer (Air) SANETH TIEN	Telephone (416) 440-3776	Fax (416) 440-6973
Name of Review Engineer (Noise)	Telephone (416) 440-	Fax (416) 440-6973

Please forward your inquiries or responses to the appropriate engineer as indicated above.

Comments:

1. Refer to Section 7 in the application form, you have identified this proposal is not a Prescribed Instrument. Please provide reason to support your claim.
2. Submit a scaled Site Plan drawing. Use a marker to highlight all the property line boundaries surrounding the subject building containing the bioreactor.
3. Please give a brief description of the filter media (BioPur material) inside the bioreactor ie. what is the filter media made up of ? What is the volume of the filter media bed ?
4. As seen from the Bioreactor Flow Schematic, drawing no. F-1, air contaminants are passed through a 55 gram activated carbon canister prior to discharge into the atmosphere. Is the activated carbon granular or powdered ? What mesh size is the activated carbon ?



MAPLE ENGINEERING & CONSTRUCTION CANADA LTD.

MAILING ADDRESS: 201 County Court Blvd., Suite 600,
BRAMPTON, ONTARIO L6W 4L2

Tel: (905) 457-6444

Fax: (905) 457-2498

MINISTRY
OF THE ENVIRONMENT

MAR 13 1995

CENTRAL REGION
OAKVILLE OFFICE

TRANSMITTAL

To: MINISTRY OF ENVIRONMENT & ENERGY
1235 TRAFALGAR RD SUITE 401
OAKVILLE, ONTARIO
L6H 3P1

Date: MARCH 10, 1995
File: FILE #

Attn: GERRY HEDY / TOM BRANKOVIC

Re: CERTIFICATE OF APPROVAL (AIR) - Appl

Dear Sir:

We are forwarding by

☐ mail
☒ courier

☐ hand delivery
☐ pick-up

No. of copies	Drawing No.	Description
1	-	COP A (AIR) - APPLICATION

These are submitted for your:

☐ information/records
☐ action

☒ approval
☐ approved

☐ approved as noted
☐ not approved

Remarks: I WILL COME WITH THE NAME OF THE REVIEWING
ENGINEER AT THE APPROVALS BRANCH.
(UNKNOWN AT THIS TIME)

Yours truly,

MAPLE ENGINEERING and CONSTRUCTION CANADA LTD.

Thomas M. Doherty

000171

Shipping & Receiving
25 Hale Road, Brampton, Ontario

Application for Approval (Air)

Ce formulaire est disponible en français

MINISTRY
OF THE ENVIRONMENT

LEB
MAR 13 1995

FOR OFFICE USE ONLY

Application Number(s)	Client Number	Payment Received	Date	Initials
		\$		

Information requested by this form is collected under the authority of the *Environmental Protection Act*, R.S.O. 1990 (EPA) and the *Environmental Bill of Rights*, c.28, Statutes of Ontario, 1993 (EBR) and will be used to evaluate applications for approval under Section 9 of the EPA. Questions should be directed to the Approvals Branch, 250 Davisville Avenue, 3rd Floor, Toronto, Ontario, M4S 1H2, Telephone No. (416) 440-3713 or 1-800-461-6290, or to your local Ministry of Environment and Energy District Office.

Instructions

- When completing this form, please refer to the "Guide For Applying for Approval (Air)", Section 9, EPA (referred to as the Guide).
- This form must be completed with respect to all the requirements of the Guide in order for it to be considered as an application for approval. INCOMPLETE APPLICATIONS WILL BE RETURNED TO THE APPLICANT OR DENIED APPROVAL.
- A complete application for approval consists of;
 - a completed and signed application form;
 - all supporting information as requested by this form and by the Guide; and
 - a certified cheque or money order for the approval fee, if applicable.
 The Ministry may require additional information following a review of the complete application.
- Two (2) copies of the application together with the supporting information must be submitted to the Ministry of Environment and Energy, One copy to: Director of Approvals Branch, Ministry of Environment and Energy, 250 Davisville Avenue, 3rd Floor, Toronto, Ontario, M4S 1H2
Duplicate copy must be sent to the District Office having jurisdiction over the area in which the works will be located.
- Information contained in this application is not considered confidential and will be made available to the public upon request. Certain information submitted as supporting information may be claimed as confidential but will be subject to the *Freedom of Information and Protection of Privacy Act* (FOI/POPA) and EBR. If you do not claim confidentiality at the time of submitting the information, the Ministry may make the information available to the public without further notice to you.

1. APPLICANT

Name (attach proof of name if applicable)

Maple Engineering & Construction Canada Ltd.

Address (include street number, concession, lot etc.)

201 County Court Blvd., Suite # 600

City / Province

Brampton, Ontario

Postal Code

L6W 4L2

Telephone Number

905-457-6444

Fax Number

905-457-2498

Owner of the Proposed Equipment?

☐ Yes

☒ No

If no, attach name and address of the Owner of the Equipment

Operator of the Proposed Equipment?

☐ Yes

☒ No

If no, attach name and address of the Operator of the Equipment

2. CONTACT FOR TECHNICAL AND DESIGN INFORMATION

Name / Title

Tom Dooley, P.Eng., Project Manager

Address

201 County Court Blvd., Suite # 600

City / Province

Brampton, Ontario

Postal Code

Telephone Number

Fax Number

3. LOCATION

☐ Mobile ☒ Stationary (Provide location (street, concession, lot etc.) and complete remainder of this section)

Adjacent Land Use Designation

☐ Industrial ☒ Commercial ☐ Residential ☐ Agricultural

Are the proposed works located in an area of development control as defined by the *Niagara Escarpment Planning and Development Act* (NEPDA)?

☐ Yes

☒ No

(If Yes, attach copy of NEPDA permit)

4. PROCESS/ACTIVITY DESCRIPTION - Brief description of the nature of business, industrial process or activity related to this site.

Hydrocarbon contaminated groundwater is pumped to a fixed film media bioreactor where the hydrocarbons are degraded by micro-organisms which are naturally present in the groundwater.

5. TYPE OF APPLICATION

☒ New Certificate of Approval

☐ Amendment to a current Certificate of Approval

Current Certificate Number _____

Date of Issue _____

6. PROJECT/APPLICATION DESCRIPTION - EBR Abstract (Brief description of the proposal)

Approval is being sought for pilot-scale testing of a portable biological groundwater treatment unit. The treatment unit consists of an influent pump, a bioreactor using fixed film media, an air blower for eARATION of the bioreactor, and an activated carbon air filter to be used in the decontamination of hydrocarbon contaminated groundwater.

Effluent from the bioreactor will be discharge to the sanitary sewer system within the discharge criteria of the governing authority (local municipality). Air emissions, as a result of aeration, will be discharged to the atmosphere through an activated carbon drum filter.

7. EBR REQUIREMENTS

Is this a proposal for a Prescribed Instrument under EBR?

☐ Yes, Class of Instrument? _____

☒ No

If "Yes", is it excepted from public notification?

☐ Yes

☐ No

If it is excepted from public notification, provide reason

☐ Emergency

☐ Equivalent Public Participation

☐ EAA or Tribunal Decision

☐ Environmentally Insignificant Amendment or Revocation

Documentation in support of the above noted exception must be provided in the attached information.

8. PUBLIC CONSULTATION/NOTIFICATION- Specify all public consultations/notification (such as public meetings, notification of First Nations, Canada - U.S. Air Quality Agreement notification etc.) that has been completed or is in the process of being completed.

No public consultation performed to date.

9. OTHER APPROVALS/PERMITS - List all other environmental approvals/permits applied for or received under the Ontario Water Resources Act (OWRA) (water works, permit to take water, etc.) and EPA (waste management, sewage systems, etc.)

None

10. PROJECT SCHEDULE

Estimated Date for Start of Construction

Estimated Date for Start of Operation

11. FEES ESTIMATE - The "cost" to be used to estimate the fee includes, all equipment and construction costs but does not include costs for land, engineering services or the costs of facilities for which a permit or approval is applied for under other Sections of the EPA or OWRA for which appropriate fees have or will be paid. The fee shall not be less than \$50.00 or more than \$100,000.00. (For more information refer to the Guide)

Cost for purpose of fee estimate \$ 9,500.00

2% of cost \$ 190.00

Estimated Fee (\$50.00 minimum, \$100,000.00 maximum) \$ 190.00

Certified cheque or money order attached? ☒ Yes ☐ No

When the application is submitted to the Ministry for review the fee must be in the form of a certified cheque or money order payable to "The Minister of Finance".

DO NOT SEND CASH

12. SUPPORTING INFORMATION CHECKLIST - This is a list of all supporting information attached to this application and is subject to the FOI/POPA and EBR.

INFORMATION	ATTACHED?	REFERENCE	CAN BE DISCLOSED
GENERAL			
Verification of Legal Name of Applicant	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Map-12-A	<input type="checkbox"/> Yes
Copy of NEPDA Permit	<input type="checkbox"/> Yes <input type="checkbox"/> No	N/A	<input type="checkbox"/> Yes
Copy of Current Certificate of Approval	<input type="checkbox"/> Yes <input type="checkbox"/> No	N/A	<input type="checkbox"/> Yes
verification of EBR Public Notification Exception	<input type="checkbox"/> Yes <input type="checkbox"/> No	N/A	<input type="checkbox"/> Yes
Proof of Public Notification/Consultation	<input type="checkbox"/> Yes <input type="checkbox"/> No	N/A	<input type="checkbox"/> Yes
Address of Owner/Operator (if different from section 1)	<input type="checkbox"/> Yes <input type="checkbox"/> No	N/A	<input type="checkbox"/> Yes
TECHNICAL			
Production Data	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Map-12-1	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Data Sheets	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Map-12-2	<input type="checkbox"/> Yes
Contaminant Emission Summary Table	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Map-12-3	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Supporting Information for Estimate of Contaminant Emissions	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Map-12-4	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Site, Plot, Roof and Elevation Plans	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Map-12-5	<input type="checkbox"/> Yes
Dispersion Calculation	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Map-12-6	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Supporting Information for Noise and Vibration Assessment	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Map-12-7	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

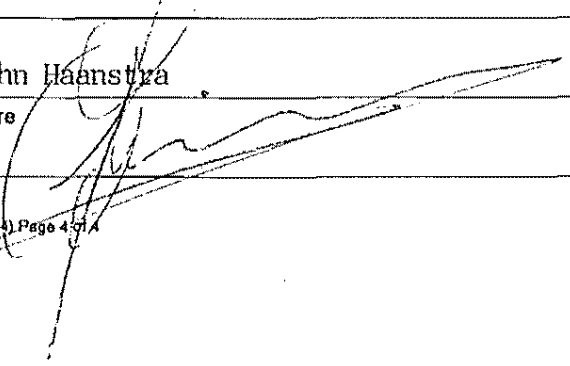
OTHER ATTACHED INFORMATION

(refer to following page)

000174

OTHER ATTACHED INFORMATION	CAN BE DISCLOSED
	<input type="checkbox"/> Yes <input type="checkbox"/> No
	<input type="checkbox"/> Yes <input type="checkbox"/> No
	<input type="checkbox"/> Yes <input type="checkbox"/> No
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	<input type="checkbox"/> Yes <input type="checkbox"/> No
	<input type="checkbox"/> Yes <input type="checkbox"/> No

13. STATEMENT OF APPLICANT

I, the undersigned, hereby declare that, to the best of my knowledge, the information contained herein and the information submitted in support of this application is complete and accurate in every way and that the Contact for Technical and Design Information identified in item 2 of this form is/are authorized to act on my behalf for the purpose of obtaining approval under Section 9 of the EPA for the proposed equipment identified herein.	
Name John Haanstra	Position Vice President
Signature 	Date Feb. 20, 1995

Pages 176 to / à 204
are not relevant
sont non pertinentes



Ministry of
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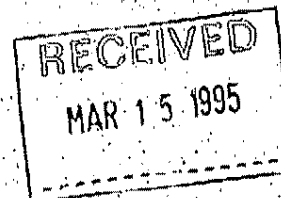
Ministère de
l'Environnement
et de l'Énergie

250 Davisville Avenue
Toronto ON M4S 1H2

250, avenue Davisville
Toronto ON M4S 1H2

APPROVALS BRANCH
3RD FLOOR
TEL: (416) 440-3718
FAX: (416) 440-6973

13 Mar 1995



Tom Dooley, P.Eng.
Project Manager
MAPLE ENG. & CONSTRUCTION CANADA LTD.
201 County Court Boulevard
Suite #600
Brampton, Ontario
L6W 4L2

Dear Sirs:

We acknowledge receipt of your application for Approval and fee in the amount of \$190.00, on 02/27/95, for the following:

Industrial Air
10 MISSISSAUGA ROAD SOUTH
PILOT SCALE TEST OF G-WATER TREAT. UNIT

A duplicate copy of your submission should also have been forwarded to your local District Office. If this has not been done, please do so as soon as possible. A copy of any additional information requested should also be forwarded to the District Office.

The Ministry's reference number for your application is 8-3149-95. Please quote this number in any correspondence or enquiries regarding this application.

We have screened your submission for completeness and find that the information outlined on the attached form is required. This information is necessary for us to process your application.

Please be advised that should we not receive the above information or a response with explanations within two weeks of the above date, your file will be closed.

Should you have any questions related to your application, please contact the reviewer named in the attached form.

Sincerely

A handwritten signature in cursive script, appearing to read "Brad Ross".

Brad Ross
Information Officer

cc: District Manager
CC: Geoff Carpentier, Central Region

(X)
(X)
(X)

00118 (01/89)

100% Unbleached Post-Consumer Stock



Ministry of
Environment
and Energy
Ontario

Acknowledgement Summary

Air

23 12166

Name of applicant MAPLE ENG & CONSTRUCTION CANADA LTD	Application number 8 3149 95
---	--

Your application has been screened and determined complete. Additional information may be required as a result of the detailed technical review.

☐ Application complete ☐ Anticipated completion _____ weeks

The information noted ☒ below is required as a result of screening the application. Additional information may be required as a result of the detailed technical review.

☐ Application incomplete ☐ Application to be returned ☐ Yes ☐ No

☐ Copy of Acknowledgement Summary

To: John Hanston

FAX No. (905) 457-8498

To: Tom Dooley

FAX No. ()

Missing Information	
A. General	
Refer to counterparts and / or on reverse side	
Application form	
Approval fee	
Proof of legal name	
Signature	
B. Detailed description of proposal	
Data sheets / equipment specifications	
Emission information / emission table	
Mechanical / acoustical specifications for equipment	
Process flow diagram	
Proposed noise and vibration control measures	
Site, plot, roof and elevation plans	
Land use zoning designation plan	
Other	

Name of Review Engineer (A/E)	Telephone	Fax
<u>SANETH TILU</u>	(416) 440-3776	(416) 440-6973
Name of Review Engineer (N/A/E)	Telephone	Fax
	(416) 440-	(416) 440-6973

Please forward your inquiries or responses to the appropriate engineer as indicated above.

Comments:

1. Refer to Section 7 in the application form, you have identified this proposal is not a Prescribed Instrument. Please provide reason to support your claim.
2. Submit a scaled Site Plan drawing. Use a marker to highlight all the property line boundaries surrounding the subject building containing the bioreactor.
3. Please give a brief description of the filter media (BioPur material) inside the bioreactor ie. what is the filter media made up of ? What is the volume of the filter media bed ?
4. As seen from the Bioreactor Flow Schematic, drawing no. F-1, air contaminants are passed through a 55 gram activated carbon canister prior to discharge into the atmosphere. Is the activated carbon granular or powdered ? What mesh size is the activated carbon ?



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and Energy et de l'Énergie

PERMIT TO TAKE WATER

94-P-3017

Page 1 of 6

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ORIGINAL DOCUMENT

Notice of Terms and Conditions
Section 100, Ontario Water Resources Act, R.S.O. 1990

SIGNATURE

DATE

Pursuant to Section 34 of the Ontario Water Resources Act, R.S.O. 1990 permission is hereby granted to **Imperial Oil Ltd.** for the taking of water in accordance with the application for this Permit to Take Water, and Schedule "A" and Schedule "B", which are attached to and form part of this Permit.

Located at: 10 Mississauga Road South, Port Credit
City of Mississauga

DEFINITIONS

1. (a) "Director" means a Director, Section 34, Ontario Water Resources Act, R.S.O. 1990.
- (b) "District Office" means Halton-Peel District Office, Central Region, Ontario Ministry of Environment and Energy.
- (c) "Ministry" means Ontario Ministry of Environment and Energy.
- (d) "Permit" means this entire Permit to Take Water including its schedules, if any, issued in accordance with Section 34 of the Ontario Water Resources Act, R.S.O. 1990.
- (e) "Permit Holder" means Imperial Oil Ltd.

GENERAL CONDITIONS

2. This Permit shall be kept available at the Imperial Oil Ltd. address as stated on the application for this Permit to Take Water for inspection by Ministry staff.
3. The Director may, from time to time, where a situation of interference or anticipated interference with water supplies exists, or in a situation requiring information on water takings for purposes of water resource inventory and planning, give written notice to the Permit Holder to undertake any of the following actions. The Permit Holder shall comply with any such notice:
 - (a) To establish and maintain a system for the measurement of the quantities of water taken;



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PERMIT TO TAKE WATER

94-P-3017

Page 2 of 6

A. Chong

SIGNATURE
Feb 17/94

DATE

- (b) To operate such a system and to record measurements of the quantities of water taken on forms provided by the District Manager or the Director, with such frequency or for such time periods as the District Manager or the Director may specify;
 - (c) To return to the District Manager or the Director records made pursuant to clause 3(b) at such times or with such frequency as the District Manager or the Director may specify; and
 - (d) To keep records made pursuant to clause 3(b) available for inspection until such time as they are returned to the District Manager or the Director pursuant to clause 3(c).
4. The Permit Holder shall immediately notify the District Manager of any complaint arising from the taking of water authorized under this Permit and shall report any action which has been taken or is proposed with regard to such complaint.
5. For Surface-Water Takings, the taking of water (including the taking of water into storage and the subsequent or simultaneous withdrawal from storage) shall be carried out in such a manner that streamflow is not stopped and is not reduced to a rate that will cause interference with downstream uses of water or with the natural functions of the stream.
6. For Ground-Water Takings, if the taking of water is forecast to cause any negative impact, or is observed to be causing any negative impacts to other water supplies obtained from any adequate sources that were in use prior to initial issuance of a permit for this water taking, the Permit Holder shall take such action necessary to make available to those affected a supply of water equivalent in quantity and quality to their normal takings, or shall compensate such persons for their reasonable costs of so doing, or shall reduce the rate and amount of taking to prevent the forecast negative impact or alleviate the observed negative impact. Pending permanent restoration of the affected supplies, the Permit Holder shall provide, to those affected, temporary water supplies adequate to meet their normal requirements, or shall compensate such persons for their reasonable costs of so doing.
7. The Permit Holder shall report to the Director any changes of address or telephone number, or change of ownership of the property for which this Permit is issued and shall report to the Director any changes in the general conditions of water taking from those described in the permit application within thirty days of any such change. The Permit Holder shall not assign his rights under this Permit to another person without the written consent of the Director.



8. No water may be taken under authority of this Permit after the expiry date of this Permit, unless the Permit is renewed, or after the expiry date shown on any subsequent renewal of this Permit, unless it is likewise renewed.
9. This Permit does not release the Permit Holder from any legal liability or obligation and remains in force subject to all limitations, requirements, and liabilities imposed by law. This Permit shall not be construed as precluding or limiting any legal claims or rights of action that any person, including the Crown in right of Ontario or any agency thereof, has or may have against the Permit Holder, its officers, employees, agents, and contractors.
10. The Permit Holder must forthwith, upon presentation of credentials, permit Ministry personnel, or a Ministry authorized representative(s) to carry out any and all inspections authorized by Section 15, 16 or 17 of the Ontario Water Resources Act, R.S.O. 1990, Section 156, 157 or 158 of the Environmental Protection Act, R.S.O. 1990 or Section 19 or 20 of the Pesticides Act, R.S.O. 1990.

SPECIAL CONDITIONS

11. (a) The Permit Holder shall record the amount of water pumped daily; and
(b) Pursuant to Condition 11(a), these records shall be kept available for inspection by Ministry staff at the Imperial Oil address stated on the application for this Permit to Take Water.
12. (a) The Permit Holder shall retain such records confirming that the water removed by pumping under the authority of this Permit was properly disposed; and
(b) Pursuant to Condition 12(a), these records shall be kept available for inspection by Ministry staff at the Imperial Oil address stated on the application for this Permit to Take Water.
13. Prior to the taking of any water under the authority of this Permit, the Permit Holder shall retain a consultant to monitor the effects of the water taking to ensure that building foundations are not damaged as a result of the dewatering.
14. This Permit expires on March 31, 2004.

THIS IS CERTIFIED TO
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ORIGINAL DOCUMENT

A. Chang

DATE *Feb 17/94*



Ministry
of the

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and Energy et de l'Énergie

PERMIT TO TAKE WATER

94-P-3017

Page 4 of 6

Schedule "A"

This Schedule "A" forms part of Permit to Take Water 94-P-3017 dated February 17, 1994.

Table 1

Source	1
Source Name or Description	Recovery Wells
Maximum Amount Taken per Minute (Litres/Minute)	120
Maximum Amount Taken per Day (Litres/Day)	172,800
Maximum Number of Hours of Taking per Day	24
Maximum Number of Days of Taking per Year	365

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A. Chong
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Feb 17/94
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PERMIT TO TAKE WATER

94-P-3017

Page 5 of 6

Schedule "B"

This Schedule "B" forms part of Permit to Take Water 94-P-3017 dated February 17, 1994.

- (1) Application for Permit to Take Water dated September 13, 1993 and signed by E. Peter Moreton, Technical Advisor, Imperial Oil Limited, Products Division.
- (2) Letter to Lesley Lovering, Hydrogeologist, Ministry of Environment and Energy from Siep Nyholt, Imperial Oil Limited, Products Division, dated December 6, 1993.

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Dr. Chong
SIGNATURE

Feb 17/94
DATE



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of the

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de

and Energy et de l'Énergie

PERMIT TO TAKE WATER

94-P-3017

Page 6 of 6

You may by written notice served upon me and the Environmental Appeal Board within 15 days after receipt of this Notice, require a hearing by the Board. Section 191 of the Ontario Water Resources Act, R.S.O. 1990, as amended, provides that the Notice requiring the hearing shall state:

1. The portions of the approval of each term or condition in the approval in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

In addition to these legal requirements, the Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The Permit to Take Water number;
6. The date of the Permit to Take Water;
7. The name of the Director;
8. The municipality within which the works are located;

And the Notice should be signed and dated by the appellant.

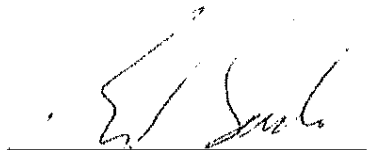
This Notice must be served upon:

The Secretary
Environmental Appeal Board
112 St. Clair Avenue West
Suite 502
Toronto, Ontario
M4V 1N3

AND

The Director
Section 34
Ontario Water Resources Act, R.S.O. 1990
Ministry of Environment and Energy
7 Overlea Blvd, 4th Floor
Toronto, Ontario
M4H 1A8

DATED AT TORONTO this 17th day of February, 1994.



Director, Section 34
Ontario Water Resources Act

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SIGNATURE

Feb 17/94

DATE

Ministry of
Environment
and Energy

Ministère de
l'Environnement
et de l'Énergie

7 Overlea Boulevard
4th Floor
Toronto ON M4H 1A8

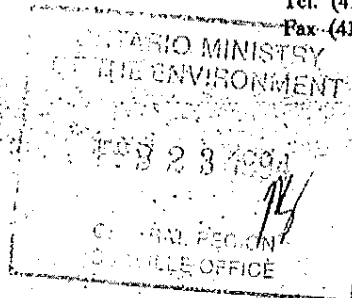
Tel. (416) 424-3000
Fax (416) 325-6345

7 boulevard Overlea
4^e étage
Toronto ON M4H 1A8

Tel. (416) 424-3000
Fax (416) 325-6345

1994 February 17

Imperial Oil Ltd.
111 St. Clair Avenue West
P.O. Box 4029, Station A
Toronto, ON
M5W 1K3



THIS IS CERTIFIED TO
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ORIGINAL DOCUMENT


SIGNATURE

DATE
Feb 17/94

Attention: E. Peter Moreton

**RE: PERMIT TO TAKE WATER: GROUNDWATER REMEDIATION
10 MISSISSAUGA ROAD, PORT CREDIT
CITY OF MISSISSAUGA, REGION OF PEEL
FILE: PTTW 94-P-3017**

Enclosed please find Permit No. 94-P-3017 issued to Imperial Oil Ltd. which authorizes the withdrawal of water in accordance with the application for this Permit to Take Water, Schedule "A" and Schedule "B" which are attached to and form part of this Permit.

This Permit is valid until March 31, 2004 and shall be kept available for inspection by Ontario Ministry of Environment and Energy staff.

Take notice that in issuing this Permit to Take Water, terms and conditions pertaining to the taking of water and to the results of the taking have been imposed on Imperial Oil Ltd. The terms and conditions have been designed to allow for the development of water resources for beneficial purposes, while providing reasonable protection to existing water uses and users.

Our main concern is that the taking of water under the authority of this Permit does not cause negative impacts to other water supplies which were in use prior to the date of this Permit. If the taking of water should result in any negative impacts, the permittee will be required to restore the water supplies of those affected in a manner acceptable to the Ontario Ministry of Environment and Energy or to reduce the rate and amount of taking until any negative impacts are eliminated.


Any change of address or ownership of the property for which this Permit is issued must be reported promptly to the Director.

.../2

The issuance of this Permit to Take Water does not relieve you from compliance with this or any other agencies' legislative requirements.

It is the responsibility of Imperial Oil Ltd. to ensure that any person taking water under the authority of this Permit is familiar with and complies with the terms and conditions.


Yours truly,


Edward V. Sado
Director, Section 34
Ontario Water Resources Act

cc: Halton-Peel District Office ✓
File AP-08, City of Mississauga

scptm/leuc/94P3017
encl

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PERMIT TO TAKE WATER

94-P-3017

Page 1 of 6

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Notice of Terms and Conditions
Section 100, Ontario Water Resources Act, R.S.O. 1990

SIGNATURE

DATE

Pursuant to Section 34 of the Ontario Water Resources Act, R.S.O. 1990 permission is hereby granted to **Imperial Oil Ltd.** for the taking of water in accordance with the application for this Permit to Take Water, and Schedule "A" and Schedule "B", which are attached to and form part of this Permit.

Located at: 10 Mississauga Road South, Port Credit
City of Mississauga

DEFINITIONS

1. (a) "Director" means a Director, Section 34, Ontario Water Resources Act, R.S.O. 1990.
- (b) "District Office" means Halton-Peel District Office, Central Region, Ontario Ministry of Environment and Energy.
- (c) "Ministry" means Ontario Ministry of Environment and Energy.
- (d) "Permit" means this entire Permit to Take Water including its schedules, if any, issued in accordance with Section 34 of the Ontario Water Resources Act, R.S.O. 1990.
- (e) "Permit Holder" means Imperial Oil Ltd.

GENERAL CONDITIONS

2. This Permit shall be kept available at the Imperial Oil Ltd. address as stated on the application for this Permit to Take Water for inspection by Ministry staff.
3. The Director may, from time to time, where a situation of interference or anticipated interference with water supplies exists, or in a situation requiring information on water takings for purposes of water resource inventory and planning, give written notice to the Permit Holder to undertake any of the following actions. The Permit Holder shall comply with any such notice:
 - (a) To establish and maintain a system for the measurement of the quantities of water taken;



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PERMIT TO TAKE WATER

94-P-3017

Page 2 of 6

A. Chouf
Feb 17/94
DATE

- (b) To operate such a system and to record measurements of the quantities of water taken on forms provided by the District Manager or the Director, with such frequency or for such time periods as the District Manager or the Director may specify;
 - (c) To return to the District Manager or the Director records made pursuant to clause 3(b) at such times or with such frequency as the District Manager or the Director may specify; and
 - (d) To keep records made pursuant to clause 3(b) available for inspection until such time as they are returned to the District Manager or the Director pursuant to clause 3(c).
- 4. The Permit Holder shall immediately notify the District Manager of any complaint arising from the taking of water authorized under this Permit and shall report any action which has been taken or is proposed with regard to such complaint.
 - 5. For Surface-Water Takings, the taking of water (including the taking of water into storage and the subsequent or simultaneous withdrawal from storage) shall be carried out in such a manner that streamflow is not stopped and is not reduced to a rate that will cause interference with downstream uses of water or with the natural functions of the stream.
 - 6. For Ground-Water Takings, if the taking of water is forecast to cause any negative impact, or is observed to be causing any negative impacts to other water supplies obtained from any adequate sources that were in use prior to initial issuance of a permit for this water taking, the Permit Holder shall take such action necessary to make available to those affected a supply of water equivalent in quantity and quality to their normal takings, or shall compensate such persons for their reasonable costs of so doing, or shall reduce the rate and amount of taking to prevent the forecast negative impact or alleviate the observed negative impact. Pending permanent restoration of the affected supplies, the Permit Holder shall provide, to those affected, temporary water supplies adequate to meet their normal requirements, or shall compensate such persons for their reasonable costs of so doing.
 - 7. The Permit Holder shall report to the Director any changes of address or telephone number, or change of ownership of the property for which this Permit is issued and shall report to the Director any changes in the general conditions of water taking from those described in the permit application within thirty days of any such change. The Permit Holder shall not assign his rights under this Permit to another person without the written consent of the Director.



8. No water may be taken under authority of this Permit after the expiry date of this Permit, unless the Permit is renewed, or after the expiry date shown on any subsequent renewal of this Permit, unless it is likewise renewed.
9. This Permit does not release the Permit Holder from any legal liability or obligation and remains in force subject to all limitations, requirements, and liabilities imposed by law. This Permit shall not be construed as precluding or limiting any legal claims or rights of action that any person, including the Crown in right of Ontario or any agency thereof, has or may have against the Permit Holder, its officers, employees, agents, and contractors.
10. The Permit Holder must forthwith, upon presentation of credentials, permit Ministry personnel, or a Ministry authorized representative(s) to carry out any and all inspections authorized by Section 15, 16 or 17 of the Ontario Water Resources Act, R.S.O. 1990, Section 156, 157 or 158 of the Environmental Protection Act, R.S.O. 1990 or Section 19 or 20 of the Pesticides Act, R.S.O. 1990.

SPECIAL CONDITIONS

11. (a) The Permit Holder shall record the amount of water pumped daily; and
(b) Pursuant to Condition 11(a), these records shall be kept available for inspection by Ministry staff at the Imperial Oil address stated on the application for this Permit to Take Water.
12. (a) The Permit Holder shall retain such records confirming that the water removed by pumping under the authority of this Permit was properly disposed; and
(b) Pursuant to Condition 12(a), these records shall be kept available for inspection by Ministry staff at the Imperial Oil address stated on the application for this Permit to Take Water.
13. Prior to the taking of any water under the authority of this Permit, the Permit Holder shall retain a consultant to monitor the effects of the water taking to ensure that building foundations are not damaged as a result of the dewatering.
14. This Permit expires on March 31, 2004.

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A. Chong

Feb 17/94
DATE



Schedule "A"

This Schedule "A" forms part of Permit to Take Water 94-P-3017 dated February 17,
1994.

Table 1

Source	1
Source Name or Description	Recovery Wells
Maximum Amount Taken per Minute (Litres/Minute)	120
Maximum Amount Taken per Day (Litres/Day)	172,800
Maximum Number of Hours of Taking per Day	24
Maximum Number of Days of Taking per Year	365

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Feb 17/94
DATE



Schedule "B"

This Schedule "B" forms part of Permit to Take Water 94-P-3017 dated February 17, 1994.

- (1) Application for Permit to Take Water dated September 13, 1993 and signed by E. Peter Moreton, Technical Advisor, Imperial Oil Limited, Products Division.
- (2) Letter to Lesley Lovering, Hydrogeologist, Ministry of Environment and Energy from Siep Nyholt, Imperial Oil Limited, Products Division, dated December 6, 1993.

THIS IS CERTIFIED TO
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An Chong
SIGNATURE

Feb 17/94
DATE



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of the

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de

and Energy et de l'Énergie

PERMIT TO TAKE WATER

94-P-3017

Page 6 of 6

You may by written notice served upon me and the Environmental Appeal Board within 15 days after receipt of this Notice, require a hearing by the Board. Section 191 of the Ontario Water Resources Act, R.S.O. 1990, as amended, provides that the Notice requiring the hearing shall state:

1. The portions of the approval of each term or condition in the approval in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

In addition to these legal requirements, the Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The Permit to Take Water number;
6. The date of the Permit to Take Water;
7. The name of the Director;
8. The municipality within which the works are located;

And the Notice should be signed and dated by the appellant.

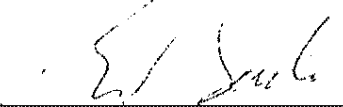
This Notice must be served upon:

The Secretary
Environmental Appeal Board
112 St. Clair Avenue West
Suite 502
Toronto, Ontario
M4V 1N3

AND


The Director
Section 34
Ontario Water Resources Act, R.S.O. 1990
Ministry of Environment and Energy
7 Overlea Blvd, 4th Floor
Toronto, Ontario
M4H 1A8

DATED AT TORONTO this 27 day of February, 1994.



Director, Section 34
Ontario Water Resources Act

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SIGNATURE

Feb 17/94

DATE

Page 222
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et de l'Énergie

7 Overlea Boulevard
4th floor
Toronto ON M4H 1A8
Tel. (416) 424-3000
Fax (416) 325-6345

7, boulevard Overlea
4^e étage
Toronto ON M4H 1A8
Tel. (416) 424-3000
Fax (416) 325-6345

1993 11 10

Imperial Oil
Products Division
111 St. Clair Avenue West
Toronto, Ontario
M5W 1K3

Attn: E. Peter Moreton

Re: **PERMIT TO TAKE WATER - REMEDIATION**
10 MISSISSAUGA ROAD SOUTH, PORT CREDIT, ONTARIO
• File #: **EQA 6628**

Thank you for the Permit to Take Water application you submitted. It was received by this office September 13, 1993. The information submitted has been screened and the following is required prior to issuance of a permit.

- A letter of agreement from the Municipality allowing the discharge of treated water to the sanitary sewer.
- An evaluation by a professional engineer to determine that the lowering of the groundwater table, which will be consequent on pumping from the extraction system, will have negligible effect on building foundations of surrounding buildings.
- A readable copy of Figure 1 Proposed Groundwater Control System South Property - Port Credit.

If you have concerns or questions, I can be contacted at (416) 467-3033.

Yours Truly,

original signed by

Lesley Lovering
Hydrogeologist

cc: Alison Chong, Approvals Clerk, Central Region
J. Budz, District Officer, Halton-Peel District Office
Central Region File GW 0702, Mississauga

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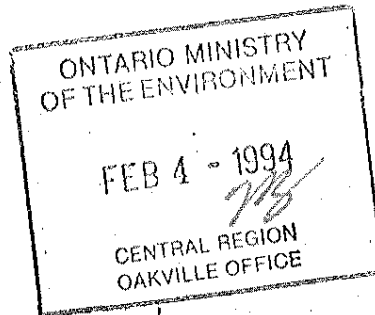
Ministry of
Environment
and EnergyMinistère de
l'Environnement
et de l'Énergie7 Overlea Boulevard
4th Floor
Toronto ON M4H 1A8
Tel. (416) 424-3000
Fax (416) 325-63457 boulevard Overlea
4^e étage
Toronto ON M4H 1A8
Tel. (416) 424-3000
Fax (416) 325-6345

1994 02 01

MEMORANDUM

TO: Alison Chong
Approvals Clerk

FROM: Lesley Lovering

RE: **PERMIT TO TAKE WATER - REMEDIATION**
10 MISSISSAUGA ROAD SOUTH, PORT CREDIT, ONTARIO

JTB
Is written to
Esso conditions
status of
dewatering
recovery process
(before next
public mtg)

The information provided in support of the above-noted application¹ has been reviewed and it is recommended that a Permit to Take Water be issued with the following conditions:

- Imperial Oil must keep records of the amount of water pumped, as well as collaborating data proving that the water removed by pumping was properly disposed of. → *Storm?*
- Imperial Oil must retain a consultant to monitor the effects of the water taking and to ensure that building foundations are not damaged as a result of the dewatering.

original signed by

Hydrogeologist
Central Regioncc: J. Budz, District Officer, Halton-Peel District Office
Central Region File GW PE MS 05

{I:\USER_FS2\LOVERING\PTTW\MEMO\6862}

¹ Information reviewed includes: 1) a letter dated Dec. 6/93 to myself from Siep Nyholt of Imperial Oil Ltd. and 2) a letter dated Dec. 1/93 from Jorge Costa P. Eng of Golder Associates to Siep Nyholt.

Imperial Oil
Products Division

111 St. Clair Avenue West
Toronto, Ontario
Canada M5W 1K3

W.G. Farrar
Vice President &
General Manager

E.R. Caldwell
Manager
Inactive Site Remediation

Refining Department

ONTARIO MINISTRY
OF THE ENVIRONMENT

SEP 15 1993

CENTRAL REGION
OAKVILLE OFFICE

Sept. 13, 1993

Ontario Ministry of the Environment and Energy
Director, Permit to Take Water Program,
Central Region,
150 Ferrand Drive,
Don Mills, Ontario
M3C 3C3

John, look forward to Sept 30 to discuss.

Dear Sir/Madam:

Re: Application for Permit to Take Water
10 Mississauga Rd. S., Port Credit, Ontario

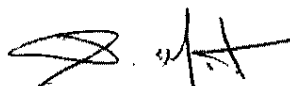
The following letter explains the circumstances relating to the pumping of groundwater at Imperial Oil's 10 Mississauga Rd. S. site in Port Credit, Ontario.

Imperial Oil is currently involved in planning the installation of a groundwater pump+treat system at the 10 Mississauga St. S. property in order to prevent the possible offsite migration of contaminants. In order to accomplish this goal, 6 recovery wells will be installed which will pump groundwater from a series of extraction trenches located primarily along the southern and eastern perimeter of the property. It is expected that the total extraction rate from all the trenches will be in the order of 120 l/min (172,800 l/day) and the maximum extraction rate from an individual trench will be approximately 34 l/min (49104 l/day). The system is designed to operate 365 days a year. The water from these recovery wells will be treated before discharging into the appropriate sewer service. Figure 1 locates the site and highlights the locations of the recovery wells and trenches.

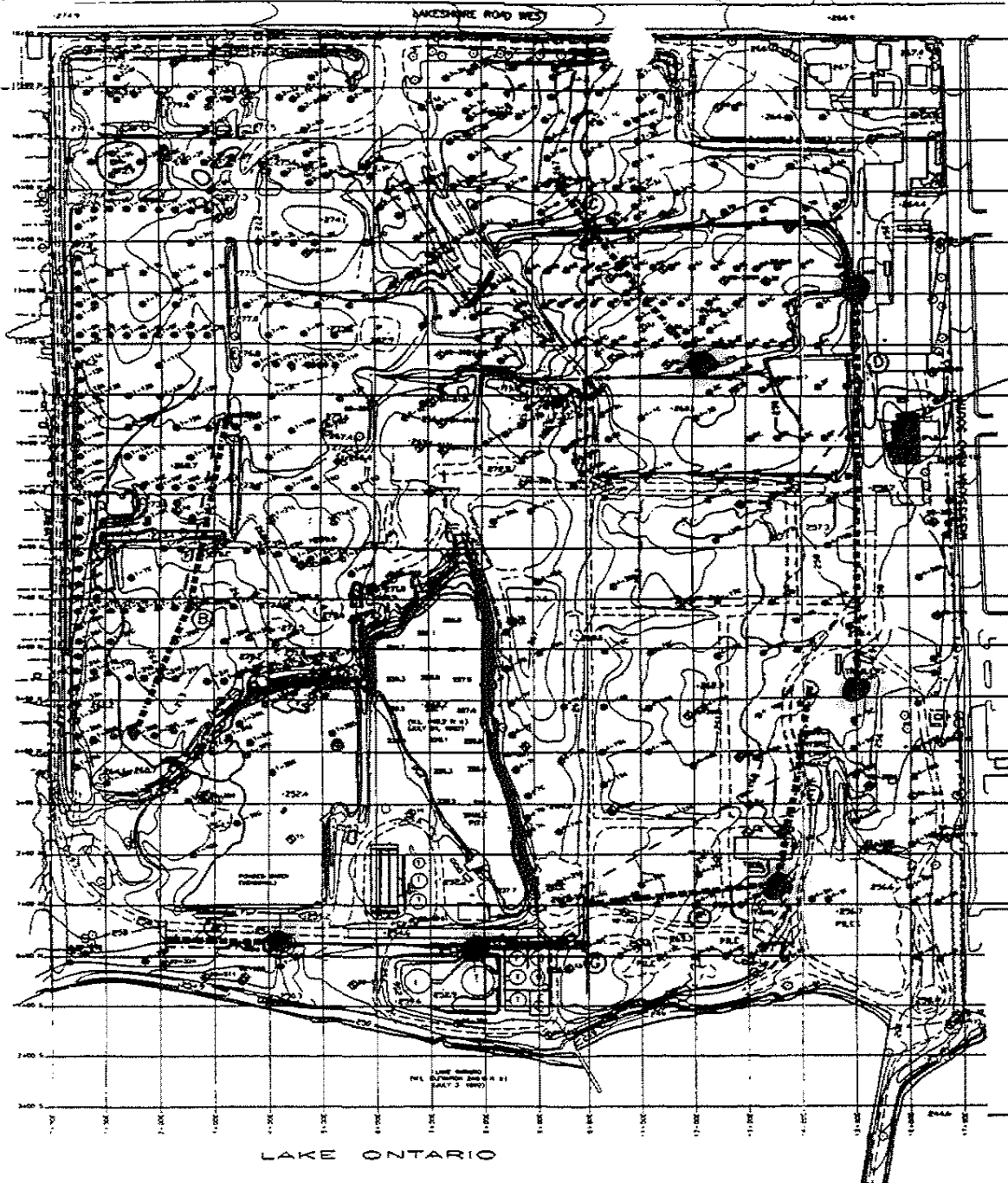
Discussion of the pump+treat system have been initiated with Mr. John Budz of the M.O.E.E. and the Region of Peel representatives. Start-up of the recovery system will occur after further discussions with the M.O.E.E. (scheduled for Sept. 30) and approval is obtained from the Region of Peel for treated water discharge.

To our knowledge, there are no water wells in the immediate area, and a municipal water supply services the area. The groundwater to be extracted and treated is located in the shallow soil overburden located from 1 to 5 metres below ground surface.

Regards,


E. Peter Moreton
Technical Advisor

c.c.: Mr John Budz, MOEE



TOPOGRAPHIC CONTOURS ON FEET ABOVE SEA LEVEL

ROADS

RAIL

WATERCOURSE

FENCELINE

EXISTING BUILDING (FEB. 1990)

THICK VEGETATION

BORERHOLE LOCATION AND DESIGNATION

TEST PIT LOCATION AND DESIGNATION

BASE OF SHALE PIT SPOT ELEVATION-DERIVED AS BEDROCK

APPROXIMATE ALIGNMENT OF INFILLED RIVER COURSE

PROPOSED PERIMETER CONTROL/REMEDIAL TRENCH LOCATION (ORIGINAL PROPOSED BY SUPERIOR, INC.)

PROPOSED PERIMETER CONTROL/REMEDIAL TRENCH LOCATION, DESIGNATION, AND GROUNDWATER EXHAUSTION POINT (DESIGNED BY GOLDER ASSOCIATES)

(A)

DRAFT

TREASURY BUILDING (SEE FIG. 93)

NOTES

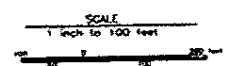
1. THE BORERHOLE AND TEST PIT LOCATIONS HAVE BEEN PLOTTED BY MEASURING DISTANCES FROM THE GRID LINES AS PROVIDED IN PREVIOUS SUBSURFACE INVESTIGATION REPORT PLANS AND ARE APPROXIMATE.
2. THE GRID SYSTEM WAS ESTABLISHED BY GOLDER ASSOCIATES LTD. IN 1982 TO ALLOW INTERPRETING OF TEST PITS AND BORERHOLES. THE GRID CONSISTS OF THE EAST FENCE LINE AND THE 0+00 HIGHWAY WAS ESTABLISHED AS THE PERIMETER LINE TO THE 0+00 C AT THE NORTHWEST CORNER OF THE LAKE SHORE FENCELINE BY MEASURING TO AN EVEN CORNER AT THE NORTH FENCE LINE.
3. FOR STRATIGRAPHIC DESCRIPTION OF THE SUBSURFACE SOILS AND GROUNDWATER CONDITIONS AT THE TEST PIT AND BORERHOLE LOCATIONS, REFER TO THE TEST PIT AND BORERHOLE LOGS PRESENTED IN THE VARIOUS REPORTS LISTED IN TABLE 1.
4. THE SPOT ELEVATIONS GIVEN FOR THE BOTTOM OF THE SHALE PIT HAVE BEEN CALCULATED FROM THE DEPTHS OF THE PROBE HOLES DRILLED IN FEBRUARY 1988 FROM THE ICE SURFACE. THE ICE SURFACE ELEVATION WAS ESTABLISHED AT APPROXIMATELY 246.3 M BY PITCHING THE COMPARISON OF THE PIT WATER SURFACE TO 1982 SITE CONTOUR PLAN PREPARED FROM AIR PHOTOGRAPHS TAKEN IN APRIL, 1977.
5. THE AREA EXTENT OF THE SHALE PIT AND INFILLED RIVER AREA HAS BEEN OBTAINED FROM A REVIEW OF AIR PHOTOGRAPHS OVER THE COURSE OF INDUSTRIAL DEVELOPMENT OF THE SITE AND IS APPROXIMATE.
6. FOR STRATIGRAPHIC PROFILES ALONG PROPOSED TRENCHES A-A TO C-C REFER TO FIGURES 2 TO 6.

REFERENCES

TOPOGRAPHIC PLAN SUPPLIED BY VECTOR MAPPING INC., OCTOBER 1992.
 BASED ON AERIAL PHOTOGRAPHS DATED MARCH 27, 1992.
 BASE CONTOUR PLAN PROVIDED TO GOLDER ASSOCIATES LTD.
 BY PROCTOR & HODGINS GROUP LTD., FEBRUARY 1990.

PROPOSED GROUNDWATER CONTROL SYSTEM
 SOUTH PROPERTY - PORT CREDIT

FIGURE 1



DATE: JULY 1993.
 PROJECT: 88-00718

Golder Associates

Drawn: J.E.
 Check: J.E.



Ontario

Ministry
of the
Environment

Ministère
de
l'Environnement

TB - TB
MM -

Central
Region

Région du
Centre

*water file (Esso Port Credit
clean up)*

7 Overlea Boulevard
4th Floor
Toronto, Ontario
M4H 1A8
416/424-3000
Fax: 416/963-2935

7, boulevard Overlea
4^e étage
Toronto (Ontario)
M4H 1A8
416/424-3000
Fax: 416/963-2935

March 10, 1992

Esso Petroleum Canada
10 Mississauga Road South
Port Credit, ON
L5G 4M6



DO - Oakville

Attention: B. Dosanjh

**Re: PERMIT TO TAKE WATER: DUST CONTROL
10 MISSISSAUGA ROAD SOUTH
CITY OF MISSISSAUGA
REGION OF PEEL
FILE: PTTW 92-P-3030**

Enclosed please find Permit No. 92-P-3030 which authorizes the withdrawal of water from Lake Ontario in accordance with the stated terms and conditions as detailed on the attached permit. The maximum rate of taking from Lake Ontario during any 24-hour period is authorized not to exceed 200 Imperial gallons per minute and the maximum amount of taking from Lake Ontario during any 24-hour period is authorized not to exceed 120,000 Imperial gallons per day.

This permit is valid until March 31, 2002 and should be kept available for inspection at all times.

Your attention is drawn to the General Terms and Conditions, shown on the back of the Permit To Take Water form.

Our main concern is that the taking of water under the authority of this permit does not interfere seriously with other water supplies which were in use prior to the date of this permit. If the taking of water should result in serious interference, the permittee will be required to restore the water supplies of those affected in a manner acceptable to the Ministry of the Environment or to reduce the rate and amount of taking until any serious interference is eliminated.

/... 2



Any change of address or ownership of the property for which this Permit is issued should be reported promptly.

The issuance of this Permit to Take Water does not relieve you from compliance with any other agencies' legislative requirements.

It is the responsibility of ESSO PETROLEUM CANADA to ensure that any person taking water under the authority of this Permit is familiar with and complies with the terms and conditions.

Yours truly,

A handwritten signature in cursive script that reads "Janet Beaver". The signature is written in dark ink and is positioned above the printed name and title.

Janet Beaver
Director, Section 20
Ontario Water Resources Act



Ministry
of the
Environment
Ontario

Application for Permit to Take Water

The Ontario Water Resources Act, Section 20

Please Print in Block Letters

Ce formulaire est également disponible en français

ESSO PETROLEUM CANADA
Name of Applicant
10, MISSISSAUGA ROAD SOUTH
Mailing Address
PORT CREDIT, MISSISSAUGA ONT
City, Town... Etc. Prov.

Telephone:
416 278 5511
Area Number
L5G4M6
Postal Code

Application Particulars

Please read instructions
(Permit to Take Water Program Information Sheet)

A. Source of Water

1. Well: How many? _____ Spring: How many? _____
2. Lake, Stream or River / Name LAKE ONTARIO
3. Pond: How many? _____ Type: ☐ Dugout ☐ By-Pass ☐ On-Stream ☐ Pit or Quarry
4. Other: Type of Source _____
5. Date of construction of source? _____ 8. Date of installation of water taking equipment? 01 04 92
D M Y D M Y

B. Location of Taking

10, MISSISSAUGA ROAD SOUTH, PORT CREDIT, ONTARIO
(Lot, Concession, Township and County or Region or District; or City, Town or Village with Street and Number)

C. Location of Water Use: Same as B ☐ or:

(Lot, Concession, Township and County or Region or District; or City, Town or Village with Street and Number)

Purpose of Taking: ☒ Irrigation ☐ Commercial ☐ Industrial ☐ Municipal ☐ Public Supply ☐ Recreation
☒ Other: DUST CONTROL

E. Period of Water Taking (Complete 1 or 2)

1. Taking to commence on _____ and to extend for a period of _____
D M Y (Days, Weeks, Months, Years)
2. Seasonal taking to extend from 01 04 92 to 30 11 each year for 2
D M Y D M Years

F. Request Amount of Taking from Each Source

	SOURCE 1	SOURCE 2	SOURCE 3
1. Source Name or Description	LAKE ONT.		
2. Maximum Amount Taken in One Minute	200		
3. Maximum Amount Taken in One Day	120,000		
4. Number of Hours of Taking in One Day	10		
..... Maximum			
..... Average	6.5		
5. Maximum Number of Days of Taking in One Year	120		

State Units Used (check one)
☒ Imperial Gallons Per Minute ~~or Day~~
☐ U.S. Gallons Per Minute or Day
☐ Litres Per Minute or Day

G. Submit a diagram of the area of water use in the space provided on the reverse side of this form

(Diagram instructions and example are shown on the information sheet)

The Applicant agrees to indemnify and save harmless the Crown in right of the Province of Ontario and its officers, employees, agents, and contractors from and against all damages, loss, costs, claims, suits, injuries, demands, actions, and proceedings resulting from or in any manner connected with any act or omission of the applicant or any of its officers, employees, agents or contractors relating to this Application and any Permit, Renewal Permit, or terms and conditions of a Permit, issued in response to this Application.

I understand that it is the policy of the Director in issuing a Permit to Take Water to impose the General Terms and Conditions appearing on the reverse side of this Application. There are no special circumstances or reasons why the Director should not impose such terms and conditions in issuing the Permit I am applying for. (Note: Cross out the previous sentence if it is not applicable to you and enclose with your Application a letter to the Director setting out such reasons and special circumstances.)

Date: 24 02 92 SENIOR ENGINEER B. DeSamp
D M Y Status of Agent or Official of Applicant Signature of Applicant or of Authorized Officer or Agent

Permit Expires 31 3 2003 (For Office Use Only) Permit Number: 192P3030
D M Y

Permit to Take Water

Pursuant to Section 20 of the Ontario Water Resources Act, permission is hereby granted for the taking of water in accordance with the above Application, subject to the General Terms and Conditions which appear overleaf, and subject to the Special Conditions and amendments to the Application Particulars, as follows:

see attached letter

Notice of Terms and Conditions

The Ontario Water Resources Act, Section 61

Take notice that in issuing this Permit to Take Water, I have imposed terms and conditions pertaining to the taking of water and to the results of the taking. The terms and conditions have been designed to allow for the development of water resources for beneficial purposes while providing reasonable protection to existing water uses and to public interests in water.

You may appeal the terms and conditions by giving written notice to the Director of the Ministry at the appropriate Region Office (see information sheet), and to the Environmental Appeal Board, 112 St. Clair Avenue West, Toronto, Ontario M4V 1N3, within fifteen days after service of this Notice. In the event of an appeal, these terms and conditions of the Permit, as issued, would remain in effect until the appeal has been finalized.

Date: 10 03 92 Central Janet Beaver
D M Y Name of Region Office and Director Signature of Director

General Terms and Conditions

These terms and conditions have been designed to allow for the development of water resources for beneficial purposes while providing reasonable protection to existing water uses and to public interests in water.

1. Permit

This Permit shall be kept available at all times for inspection.

2. Measurement and Reporting of Water Taking

The Director may, from time to time, where a situation of interference or anticipated interference with water supplies exists, or in a situation requiring information on water takings for purposes of water resource inventory and planning, give written notice to the Permit holder to undertake any of the following actions.

The Permit holder shall comply with any such notice:

- (a) To establish and maintain a system for the measurement of the quantities of water taken;
- (b) To operate such a system and to record measurements of the quantities of water taken on forms provided by the Director, with such frequency or for such time periods as the Director may specify;
- (c) To return to the Director records made pursuant to clause 2 (b) at such times or with such frequency as the Director may specify;
- (d) To keep records made pursuant to clause 2 (b) available for inspection until such time as they are returned to the Director pursuant to clause 2 (c).

3. Interference with Other Water Supplies

The Permit holder shall immediately notify the Director of any complaint arising from the taking of water authorized by this Permit and shall report upon any action which has been taken or is proposed with regard to such complaint.

For Surface-Water Takings, the taking of water (including the taking of water into storage and the subsequent or simultaneous withdrawal from storage) shall be carried out in such a manner that streamflow is not stopped and is not reduced to a rate that will cause interference with downstream uses of water or with the natural functions of the stream.

For Ground-Water Takings, if the taking of water is forecast to interfere seriously, or is observed to interfere seriously with other water supplies obtained from any adequate sources that were in use prior to initial issuance of a Permit for this water taking, the Permit holder shall take such action as will make available to those affected a supply of water equivalent in quantity and quality to their normal takings, or shall compensate such persons for their reasonable costs of so doing, or shall reduce the rate and amount of taking so as to prevent the forecast interference or alleviate the observed interference. Pending permanent restoration of the affected supplies, the Permit holder shall provide to those affected temporary water supplies adequate to meet their normal requirements, or shall compensate such persons for their reasonable costs of so doing.

4. Reporting of Changes

The Permit holder shall report to the Director any changes of address or telephone number, or change of ownership of the property for which this Permit is issued and shall report to the Director any changes in the general conditions of water taking from those described in the Permit application within thirty days of any such change. The Permit holder shall not assign his rights under this Permit to another person without the written consent of the Director.

5. Expiry

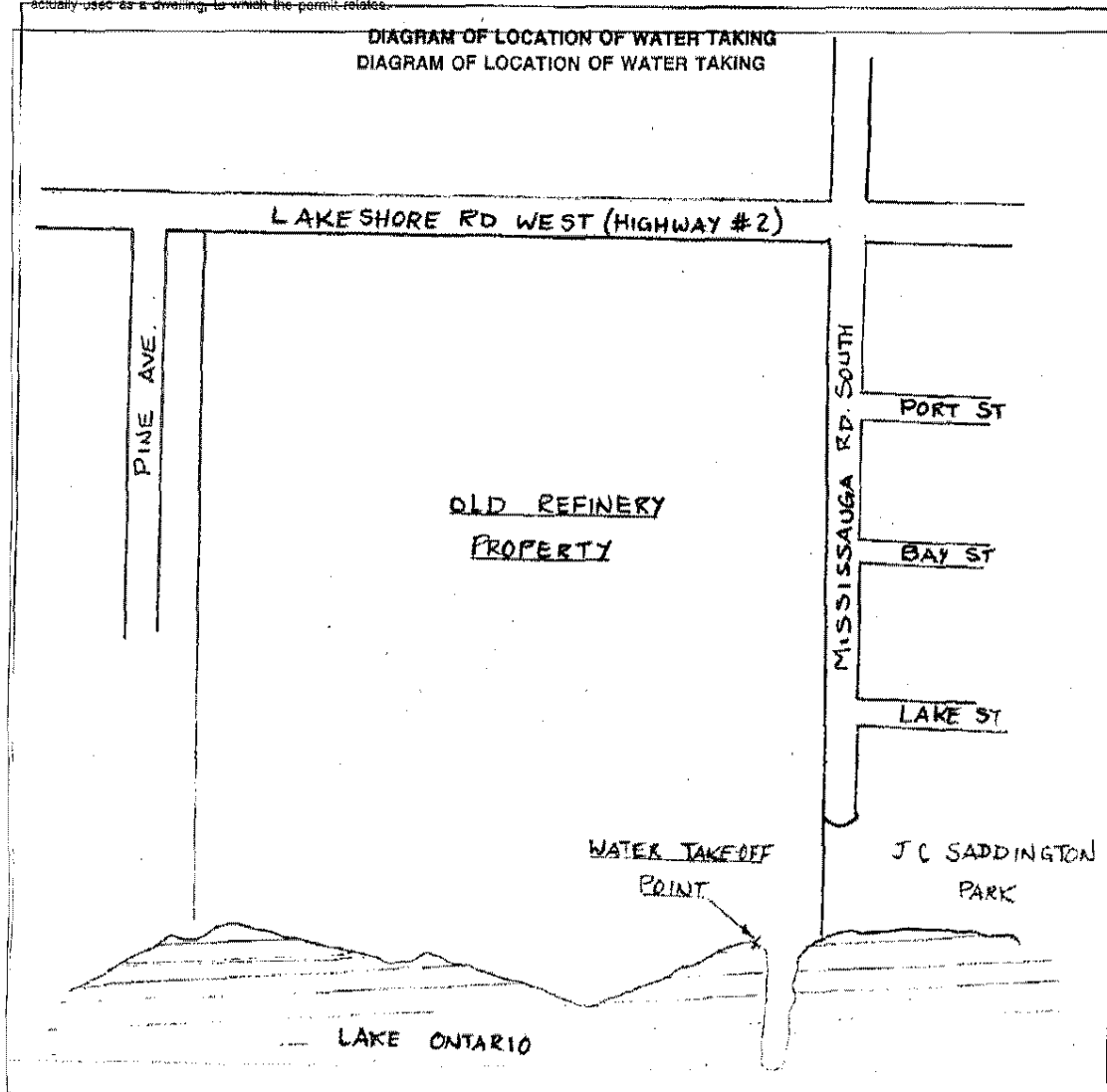
No water may be taken under authority of this Permit after the expiry date shown on the face of this Permit, unless the Permit is renewed, or after the expiry date shown on any renewal of this Permit.

6. Liability

This Permit does not release the permittee from any legal liability or obligation and remains in force subject to all limitations, requirements, and liabilities imposed by law. This Permit shall not be construed as estopping or limiting any legal claims or rights of action that any person, including the Crown in right of Ontario or any agency thereof, has or may have against the permittee, its officers, employees, agents, and contractors.

7. Inspection

It is a condition of this permit that the permittee must forthwith on request permit provincial officers to carry out inspections authorized by section 10, 10a or 10b of the Ontario Water Resources Act, section 128, 128a or 127 of the Environmental Protection Act or section 19 or 19a of the Pesticides Act of any place, other than any road actually used as a driveway, to which the permit relates.





Ontario

MINISTRY OF THE ENVIRONMENT

PERMIT TO TAKE WATER INSPECTION REPORT

Please check(✓) appropriate boxes (□).

Section 1.0 Site Information

Company/Facility Name

IMPERIAL OIL LTD.

Address (mailing)

 111 ST. CLAIR AVE. W.
 P.O. BOX 4029, STATION A
 TORONTO

Postal Code

M5W 1K3

Municipality

E-mail

Contact Person (include Position)

MR. E. PETER MORETON

Telephone # 968-5343

FAX #

Site Location of Water Taking (e.g. lot and concession and GPS coord. if available)

10 MISSISSAUGA RD., PORT CREDIT

Municipality

MISSISSAUGA.

Site Location of Water Usage (e.g. lot and concession and GPS coord. if available)

Municipality

1.1 Purpose of Taking

☐ Irrigation

- ☐ food crops
☐ non-food crops
☐ sod
☐ Golf course
☐ Parklands

Other _____

☐ Commercial

- ☐ aquaculture
☐ snow making

Other _____

☐ Industrial

- ☐ Power
 production
☐ aggregates and
 quarries
☐ manufacturing
☐ food processing

Other _____

☐ Communal Water

- ☐ Municipal
☐ Private

Other _____

☐ Bottled water☐ Heat Pumps

Other _____

☐ Recreational

- ☐ Wetlands
☐ fish ponds
☐ aesthetics

Other _____

☒ OtherGROUNDWATER
REMEDIATION

Describe _____

1.2 Source of Water

Groundwater

☐ Well(s) How many 4

Other: RECOVERY WELLS. (4 Currently active separate meters + Totalizer.)

Surface Water

☐ Springs How many _____

☐ Ponds How many _____ Type: ☐ Dugout ☐ By-Pass ☐ On-Stream ☐ Pit or Quarry

Lake Stream or River Name(s)(if source is surface water) _____

Other: _____

1.3 Quantity

Actual quantity over weeked. 44,000 Litres. (3rd to 7th of July)

Quantity of water taken (litres/day) 172,800 (120 l/min)

Method of measurement (describe) Neptune Meter. (Ridont Turbine.)
Readings taken daily

1.4 Description of Taking

Pumps (size, capacity, make, model) Submersible (Greenfoss) pumps having

Pipes (diameter, length) Intake: 4 x 1" Discharge 2" to Sanitary.
3500' Length of intake pipe.

Guns (type, #, nozzle size) Not applicable

Intake (type, size) 1" pipes (4) 3500' long. Head

Other Details Esso has discharge permit from Region of Peel to the Sanitary Sewer.

2.0 OWRA and Regulation 285/99 Assessment

2.1 Operation subject to the requirement to have a PTTW

☒ Yes

☐ No

2.2 Facility has permit (OWRA Subsection 34(3))

☒ Yes ☐ No (If NO proceed to Section 2.4)

Permit #

Issue Date

Expiry Date

94 P-3017 FEB. 17, 1994 MAR. 31, 2001

* SEE SPECIAL CONDITIONS *

2.3 Water Taking is in accordance with terms and conditions on the application and permit.

☒ Yes ☐ No

If NO specify terms and conditions not complied with.

☐ name on the permit is not consistent with person/facility taking the water (OWRA Subsection 34(3))

☐ Permit has expired (OWRA Subsection 34(3))

☐ location and manner of water taking not in accordance with application and permit (OWRA Subsection 34(8))

☐ exceeding permitted quantity (OWRA Subsection 34(8))

☐ Purpose of water taking is not consistent with the application and permit (OWRA Subsection 34(8))

☐ Fail to monitor water taking in accordance with application or permit (OWRA Subsection 34(8))

☐ fail to maintain records (OWRA Subsection 34(8))

☐ fail to submit report in accordance with application and permit (OWRA Subsection 34(8))

Other: _____

Details of non-compliance _____

2.4 OWRA Approval for Water and Sewage Works

Water taking has a discharge subject to OWRA Sewage or Water approval ☐ Yes ☒ No

If Yes Describe _____

If yes have required approvals been issued ☐ Yes ☐ No

Approval Number(s) _____

2.5 Indications that water taking is causing an adverse effect or interference

☐ Yes ☒ No

Details _____

2.6 Are water transfers outside the basin in accordance with Regulation 285/99

Mark as N/A if water is:

- *used at the facility to produce a product (other than drinking water) and the product is being transferred or;*
- *water is packaged in a container of 20 L or less or;*
- *water transferred is necessary for the operation of the vehicle, vessel or other form of transport including water that is for the use of people or livestock in or on the vehicle, vessel or other form of transport or;*
- *the undertaking commenced before January 1, 1998 and the amount of water transferred out of the basin by the undertaking in any calendar year after December 31, 1997 does not exceed the highest amount of water transferred out of the water basin by the undertaking in any calendar year after December 31, 1960 and before January 1, 1998.*

☐ Yes ☐ No ☐ N/A

3.0 Review of Outstanding Issues (status of previous complaints, violations, orders, action requests)

4.0 SUMMARY OF INSPECTION FINDINGS (HEALTH/ENVIRONMENTAL IMPACT)

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

☐ Yes

☒ No

Specifics: _____

- Was there any indication of a known or anticipated environmental impact during the inspection and/or review of relevant material ? (e.g. *Known or anticipated impairment resulting from the water taking including but not limited to impacts to aquatic organisms, fish kills or impairment of fish habitats or; known or anticipated interference with the use or supply of a source of water.*).

☐ Yes

☒ No

Specifics: _____

- Was there any indication of repetitive or multiple occurrences with a potential for environmental impairment?

☐ Yes

☒ No

Specifics: _____

- Was there any indication of a known or suspected violation of a legal requirement during the inspection and/or review of relevant material which could cause a human health impact or environmental impairment ? (e.g. *Failure to obtain a required permit is a priority*).

☐ Yes

☒ No

Specifics: _____

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

☐ Yes

☒ No

Specifics: _____

5.0 Regulatory Deficiencies (Please include: specific sections of Act/Regulation that were identified as violations)

Occurrence Report Number(s): _____

6.0 Required Action (Specify actions of the facility to be taken to address non-compliance issues and date that action is to be completed by.)

- ☐ Voluntary Abatement requested
- ☐ Violation Notice issued
- ☐ POA Ticket Issued
- ☐ Order Issued

7.0 Recommendations

Name of Provincial Officer

GERRY HEALY

District/Area Office

HALTON PEEL DISTRICT.

Signature of Provincial Officer

G. Healy

Date

July 7th / 1999.

Name of Reviewer

ROBERT ADCOCK

Position of Reviewer

DIST. SUPERVISOR

Signature of Reviewer

Robert Adcock

Date

Sept. 7/99

Report sent out or given to company

Date: _____

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There is no handwriting or other markings on the paper.

Date _____

000237



Ontario

CENTRAL REGION'S
FILE COPY

Central
Region

Région du
Centre

Ministry of
Environment
and Energy

Ministère de
l'Environnement
et de l'Énergie

7 Overlea Boulevard
4th Floor
Toronto ON M4H 1A8

Tel. (416) 424-3000
Fax (416) 325-6345

7 boulevard Overlea
4^e étage
Toronto ON M4H 1A8

Tel. (416) 424-3000
Fax (416) 325-6345

1994 February 17

Imperial Oil Ltd.
111 St. Clair Avenue West
P.O. Box 4029, Station A
Toronto, ON
M5W 1K3

THIS IS CERTIFIED TO
BE A TRUE COPY OF THE
ORIGINAL DOCUMENT


SIGNATURE

Feb 17/94
DATE

Attention: E. Peter Moreton

**RE: PERMIT TO TAKE WATER: GROUNDWATER REMEDIATION
10 MISSISSAUGA ROAD, PORT CREDIT
CITY OF MISSISSAUGA, REGION OF PEEL
FILE: PTTW 94-P-3017**

Enclosed please find Permit No. 94-P-3017 issued to Imperial Oil Ltd. which authorizes the withdrawal of water in accordance with the application for this Permit to Take Water, Schedule "A" and Schedule "B" which are attached to and form part of this Permit.

This Permit is valid until March 31, 2004 and shall be kept available for inspection by Ontario Ministry of Environment and Energy staff.

Take notice that in issuing this Permit to Take Water, terms and conditions pertaining to the taking of water and to the results of the taking have been imposed on Imperial Oil Ltd. The terms and conditions have been designed to allow for the development of water resources for beneficial purposes, while providing reasonable protection to existing water uses and users.

Our main concern is that the taking of water under the authority of this Permit does not cause negative impacts to other water supplies which were in use prior to the date of this Permit. If the taking of water should result in any negative impacts, the permittee will be required to restore the water supplies of those affected in a manner acceptable to the Ontario Ministry of Environment and Energy or to reduce the rate and amount of taking until any negative impacts are eliminated.

Any change of address or ownership of the property for which this Permit is issued must be reported promptly to the Director.


.../2



The issuance of this Permit to Take Water does not relieve you from compliance with this or any other agencies' legislative requirements.

It is the responsibility of Imperial Oil Ltd. to ensure that any person taking water under the authority of this Permit is familiar with and complies with the terms and conditions.

Yours truly,


Edward V. Sado
Director, Section 34
Ontario Water Resources Act

cc: Halton-Peel District Office
File AP-08, City of Mississauga

ac/pth/lisuo/94P3017
encl

THIS IS CERTIFIED TO
BE A TRUE COPY OF THE
ORIGINAL DOCUMENT


SIGNATURE


DATE



Ministry
of the

Ministère
de

Environment

and Energy

et de l'Énergie

PERMIT TO TAKE WATER

94-P-3017

Page 1 of 6

THIS IS CERTIFIED TO
BE A TRUE COPY OF THE
ORIGINAL DOCUMENT

Notice of Terms and Conditions
Section 100, Ontario Water Resources Act, R.S.O. 1990

A. Chong
SIGNATURE

Feb 17/94
DATE

Pursuant to Section 34 of the Ontario Water Resources Act, R.S.O. 1990 permission is hereby granted to **Imperial Oil Ltd.** for the taking of water in accordance with the application for this Permit to Take Water, and Schedule "A" and Schedule "B", which are attached to and form part of this Permit.

Located at: 10 Mississauga Road South, Port Credit
City of Mississauga

DEFINITIONS

1. (a) "Director" means a Director, Section 34, Ontario Water Resources Act, R.S.O. 1990.
- (b) "District Office" means Halton-Peel District Office, Central Region, Ontario Ministry of Environment and Energy.
- (c) "Ministry" means Ontario Ministry of Environment and Energy.
- (d) "Permit" means this entire Permit to Take Water including its schedules, if any, issued in accordance with Section 34 of the Ontario Water Resources Act, R.S.O. 1990.
- (e) "Permit Holder" means Imperial Oil Ltd.

GENERAL CONDITIONS

2. This Permit shall be kept available at the Imperial Oil Ltd. address as stated on the application for this Permit to Take Water for inspection by Ministry staff.
3. The Director may, from time to time, where a situation of interference or anticipated interference with water supplies exists, or in a situation requiring information on water takings for purposes of water resource inventory and planning, give written notice to the Permit Holder to undertake any of the following actions. The Permit Holder shall comply with any such notice:
 - (a) To establish and maintain a system for the measurement of the quantities of water taken;



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PERMIT TO TAKE WATER

94-P-3017

Page 2 of 6

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DATE

- (b) To operate such a system and to record measurements of the quantities of water taken on forms provided by the District Manager or the Director, with such frequency or for such time periods as the District Manager or the Director may specify;
- (c) To return to the District Manager or the Director records made pursuant to clause 3(b) at such times or with such frequency as the District Manager or the Director may specify; and
- (d) To keep records made pursuant to clause 3(b) available for inspection until such time as they are returned to the District Manager or the Director pursuant to clause 3(c).
4. The Permit Holder shall immediately notify the District Manager of any complaint arising from the taking of water authorized under this Permit and shall report any action which has been taken or is proposed with regard to such complaint.
5. For Surface-Water Takings, the taking of water (including the taking of water into storage and the subsequent or simultaneous withdrawal from storage) shall be carried out in such a manner that streamflow is not stopped and is not reduced to a rate that will cause interference with downstream uses of water or with the natural functions of the stream.
6. For Ground-Water Takings, if the taking of water is forecast to cause any negative impact, or is observed to be causing any negative impacts to other water supplies obtained from any adequate sources that were in use prior to initial issuance of a permit for this water taking, the Permit Holder shall take such action necessary to make available to those affected a supply of water equivalent in quantity and quality to their normal takings, or shall compensate such persons for their reasonable costs of so doing, or shall reduce the rate and amount of taking to prevent the forecast negative impact or alleviate the observed negative impact. Pending permanent restoration of the affected supplies, the Permit Holder shall provide, to those affected, temporary water supplies adequate to meet their normal requirements, or shall compensate such persons for their reasonable costs of so doing.
7. The Permit Holder shall report to the Director any changes of address or telephone number, or change of ownership of the property for which this Permit is issued and shall report to the Director any changes in the general conditions of water taking from those described in the permit application within thirty days of any such change. The Permit Holder shall not assign his rights under this Permit to another person without the written consent of the Director.



8. No water may be taken under authority of this Permit after the expiry date of this Permit, unless the Permit is renewed, or after the expiry date shown on any subsequent renewal of this Permit, unless it is likewise renewed.
9. This Permit does not release the Permit Holder from any legal liability or obligation and remains in force subject to all limitations, requirements, and liabilities imposed by law. This Permit shall not be construed as precluding or limiting any legal claims or rights of action that any person, including the Crown in right of Ontario or any agency thereof, has or may have against the Permit Holder, its officers, employees, agents, and contractors.
10. The Permit Holder must forthwith, upon presentation of credentials, permit Ministry personnel, or a Ministry authorized representative(s) to carry out any and all inspections authorized by Section 15, 16 or 17 of the Ontario Water Resources Act, R.S.O. 1990, Section 156, 157 or 158 of the Environmental Protection Act, R.S.O. 1990 or Section 19 or 20 of the Pesticides Act, R.S.O. 1990.

SPECIAL CONDITIONS

11. (a) The Permit Holder shall record the amount of water pumped daily; and
(b) Pursuant to Condition 11(a), these records shall be kept available for inspection by Ministry staff at the Imperial Oil address stated on the application for this Permit to Take Water.
12. (a) The Permit Holder shall retain such records confirming that the water removed by pumping under the authority of this Permit was properly disposed; and
(b) Pursuant to Condition 12(a), these records shall be kept available for inspection by Ministry staff at the Imperial Oil address stated on the application for this Permit to Take Water.
13. Prior to the taking of any water under the authority of this Permit, the Permit Holder shall retain a consultant to monitor the effects of the water taking to ensure that building foundations are not damaged as a result of the dewatering.
14. This Permit expires on March 31, 2004.

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A. Chang
SIGNATURE

Feb 17/94
DATE



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PERMIT TO TAKE WATER
94-P-3017
Page 4 of 6

Schedule "A"

This Schedule "A" forms part of Permit to Take Water 94-P-3017 dated February 17,
1994.

Table 1

Source	1
Source Name or Description	Recovery Wells
Maximum Amount Taken per Minute (Litres/Minute)	120
Maximum Amount Taken per Day (Litres/Day)	172,800
Maximum Number of Hours of Taking per Day	24
Maximum Number of Days of Taking per Year	365

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A. Cheng
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PERMIT TO TAKE WATER

94-P-3017

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Schedule "B"

This Schedule "B" forms part of Permit to Take Water 94-P-3017 dated February 17, 1994.

- (1) Application for Permit to Take Water dated September 13, 1993 and signed by E. Peter Moreton, Technical Advisor, Imperial Oil Limited, Products Division.
- (2) Letter to Lesley Lovering, Hydrogeologist, Ministry of Environment and Energy from Siep Nyholt, Imperial Oil Limited, Products Division, dated December 6, 1993.

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A. Chong
SIGNATURE

Feb 17/94
DATE



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PERMIT TO TAKE WATER

94-P-3017

Page 6 of 6

You may by written notice served upon me and the Environmental Appeal Board within 15 days after receipt of this Notice, require a hearing by the Board. Section 191 of the Ontario Water Resources Act, R.S.O. 1990, as amended, provides that the Notice requiring the hearing shall state:

1. The portions of the approval of each term or condition in the approval in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

In addition to these legal requirements, the Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The Permit to Take Water number;
6. The date of the Permit to Take Water;
7. The name of the Director;
8. The municipality within which the works are located;

And the Notice should be signed and dated by the appellant.


This Notice must be served upon:

The Secretary
Environmental Appeal Board
112 St. Clair Avenue West
Suite 502
Toronto, Ontario
M4V 1N3

AND

The Director
Section 34
Ontario Water Resources Act, R.S.O. 1990
Ministry of Environment and Energy
7 Overlea Blvd, 4th Floor
Toronto, Ontario
M4H 1A8

DATED AT TORONTO this 17th day of February, 1994.



Director, Section 34
Ontario Water Resources Act

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ORIGINAL DOCUMENT



SIGNATURE

Feb 17/94

DATE

E. Peter Moreton, M.Sc.
Remediation Technology Advisor

Safety and
Environmental Affairs

Imperial Oil
Products Division
111 St. Clair Avenue West
P.O. Box 4029, Station 'A'
Toronto, Ontario
Canada M5W 1K3
Tel. 416 968 5343
Fax. 416 968 5321



Imperial Oil

W.G. Farrar
Vice President &
General Manager

Refining Department

E.R. Caldwell
Manager
Inactive Site Remediation

Sept. 13, 1993

Ontario Ministry of the Environment and Energy
Director, Permit to Take Water Program,
Central Region,
150 Ferrand Drive,
Don Mills, Ontario
M3C 3C3

Dear Sir/Madam:

**Re: Application for Permit to Take Water
10 Mississauga Rd. S., Port Credit, Ontario**

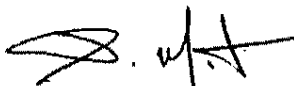
The following letter explains the circumstances relating to the pumping of groundwater at Imperial Oil's 10 Mississauga Rd. S. site in Port Credit, Ontario.

Imperial Oil is currently involved in planning the installation of a groundwater pump+treat system at the 10 Mississauga St. S. property in order to prevent the possible offsite migration of contaminants. In order to accomplish this goal, 6 recovery wells will be installed which will pump groundwater from a series of extraction trenches located primarily along the southern and eastern perimeter of the property. It is expected that the total extraction rate from all the trenches will be in the order of 120 l/min (172,800 l/day) and the maximum extraction rate from an individual trench will be approximately 34 l/min (49104 l/day). The system is designed to operate 365 days a year. The water from these recovery wells will be treated before discharging into the appropriate sewer service. Figure 1 locates the site and highlights the locations of the recovery wells and trenches.

Discussion of the pump+treat system have been initiated with Mr. John Budz of the M.O.E.E. and the Region of Peel representatives. Start-up of the recovery system will occur after further discussions with the M.O.E.E. (scheduled for Sept. 30) and approval is obtained from the Region of Peel for treated water discharge.

To our knowledge, there are no water wells in the immediate area, and a municipal water supply services the area. The groundwater to be extracted and treated is located in the shallow soil overburden located from 1 to 5 metres below ground surface.

Regards,


E. Peter Moreton
Technical Advisor

c.c.: Mr John Budz, MOEE

Topographic contours in feet above sea level

ROADS
RAILS
HYDROGRAPHIC
FENCELINE

DRAFT

EXISTING BUILDING (FEB. 1960)

THREE, NOTATION

PROPOSED LOCATION AND DESCRIPTION

PROPOSED PERIMETER CONTROL/REGISTRATION

PROPOSED PERIMETER CONTROL/REGISTRATION

PROPOSED PERIMETER CONTROL/REGISTRATION

PROPOSED PERIMETER CONTROL/REGISTRATION

PROPOSED PERIMETER CONTROL/REGISTRATION

PROPOSED PERIMETER CONTROL/REGISTRATION

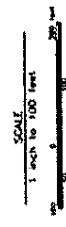
NOTES

1. THE PROPOSED PERIMETER CONTROL/REGISTRATION SYSTEM HAS BEEN DESIGNED BY COLGOLD ASSOCIATES LTD. IN 1960.
2. THE PROPOSED PERIMETER CONTROL/REGISTRATION SYSTEM HAS BEEN DESIGNED BY COLGOLD ASSOCIATES LTD. IN 1960.
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9. THE PROPOSED PERIMETER CONTROL/REGISTRATION SYSTEM HAS BEEN DESIGNED BY COLGOLD ASSOCIATES LTD. IN 1960.

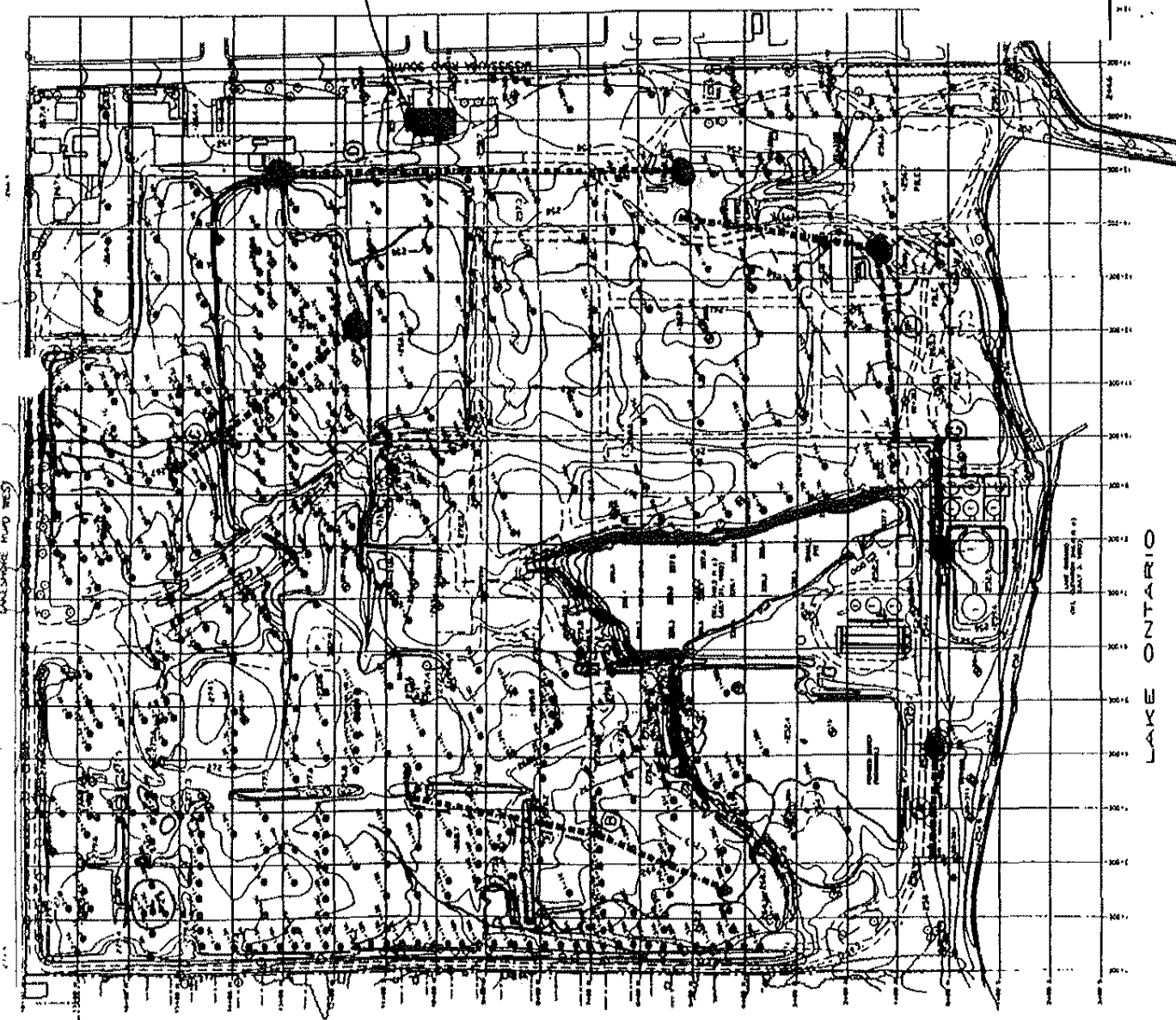
REFERENCES

TOPOGRAPHIC MAP SUPPLIED BY ACTON MAPS INC. OCTOBER 1962.
BASED ON ACTON PHOTOGRAPHIC DATA MARCH 31, 1962.
BASED ON ACTON PHOTOGRAPHIC DATA MARCH 31, 1962.
BASED ON ACTON PHOTOGRAPHIC DATA MARCH 31, 1962.

PROPOSED GROUNDWATER CONTROL SYSTEM
SOUTH PROPERTY - PORT CREDIT



Prepared by: Colgold Associates
Checked by: Colgold Associates



LAKE ONTARIO

SYNCHRONIC CONTOURS ON PLOT ABOVE 100' LEVEL

ROADS

RAILS

WATERCOURSE

FOUNTLAKE

EXISTING BUILDING (FEB. 1940)

TREES, VEGETATION

PROPOSED LOCATION AND DETERMINATION

PROPOSED LOCATION AND DETERMINATION

MADE OF WALK THE SHOT ELEVATION-APPROX AS BENCH

APPROXIMATE LOCATION OF WALKER WATER COURSE

PROPOSED REMOTE CONTROL/RECONSTRUCTION IMPROVEMENT

LOCATION (ORIGINAL PROPOSED BY SURVEYOR, 1940)

PROPOSED REMOTE CONTROL/RECONSTRUCTION IMPROVEMENT

LOCATION, DETERMINATION, AND ORIGINATOR DETERMINATION POINT (SERVED BY

GOLDER ASSOCIATES)

RECONSTRUCTION BUILDING (SEE FIG. 2)

NOTES

1. THE BENCH AND TEST PIT LOCATIONS HAVE BEEN PLACED BY GOLDER ASSOCIATES (G.A.) IN 1940. THE BENCH WAS USED TO DETERMINE THE LOCATION OF THE TEST PIT AND THE LOCATION OF THE REMOTE CONTROL/RECONSTRUCTION IMPROVEMENT.
2. THE REMOTE CONTROL/RECONSTRUCTION IMPROVEMENT WAS PLACED BY GOLDER ASSOCIATES (G.A.) IN 1940. THE REMOTE CONTROL/RECONSTRUCTION IMPROVEMENT WAS USED TO DETERMINE THE LOCATION OF THE TEST PIT AND THE LOCATION OF THE REMOTE CONTROL/RECONSTRUCTION IMPROVEMENT.
3. THE REMOTE CONTROL/RECONSTRUCTION IMPROVEMENT WAS PLACED BY GOLDER ASSOCIATES (G.A.) IN 1940. THE REMOTE CONTROL/RECONSTRUCTION IMPROVEMENT WAS USED TO DETERMINE THE LOCATION OF THE TEST PIT AND THE LOCATION OF THE REMOTE CONTROL/RECONSTRUCTION IMPROVEMENT.
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7. THE REMOTE CONTROL/RECONSTRUCTION IMPROVEMENT WAS PLACED BY GOLDER ASSOCIATES (G.A.) IN 1940. THE REMOTE CONTROL/RECONSTRUCTION IMPROVEMENT WAS USED TO DETERMINE THE LOCATION OF THE TEST PIT AND THE LOCATION OF THE REMOTE CONTROL/RECONSTRUCTION IMPROVEMENT.
8. FOR SYNCHRONIC PROFILES ALONG PROPOSED TRENCH 4-1 TO 4-5 REFER TO FIGURES 2 TO 8.

REFERENCES

PROPOSED REMOTE CONTROL/RECONSTRUCTION IMPROVEMENT, OCTOBER 1942
BASED ON AERIAL PHOTOGRAPHY DATED JAN. 31, 1943
BASED ON AERIAL PHOTOGRAPHY DATED JAN. 31, 1943
BASED ON AERIAL PHOTOGRAPHY DATED JAN. 31, 1943
BASED ON AERIAL PHOTOGRAPHY DATED JAN. 31, 1943

PROPOSED GROUNDWATER CONTROL SYSTEM
SOUTH PROPERTY - PORT CREDIT

FIGURE 1

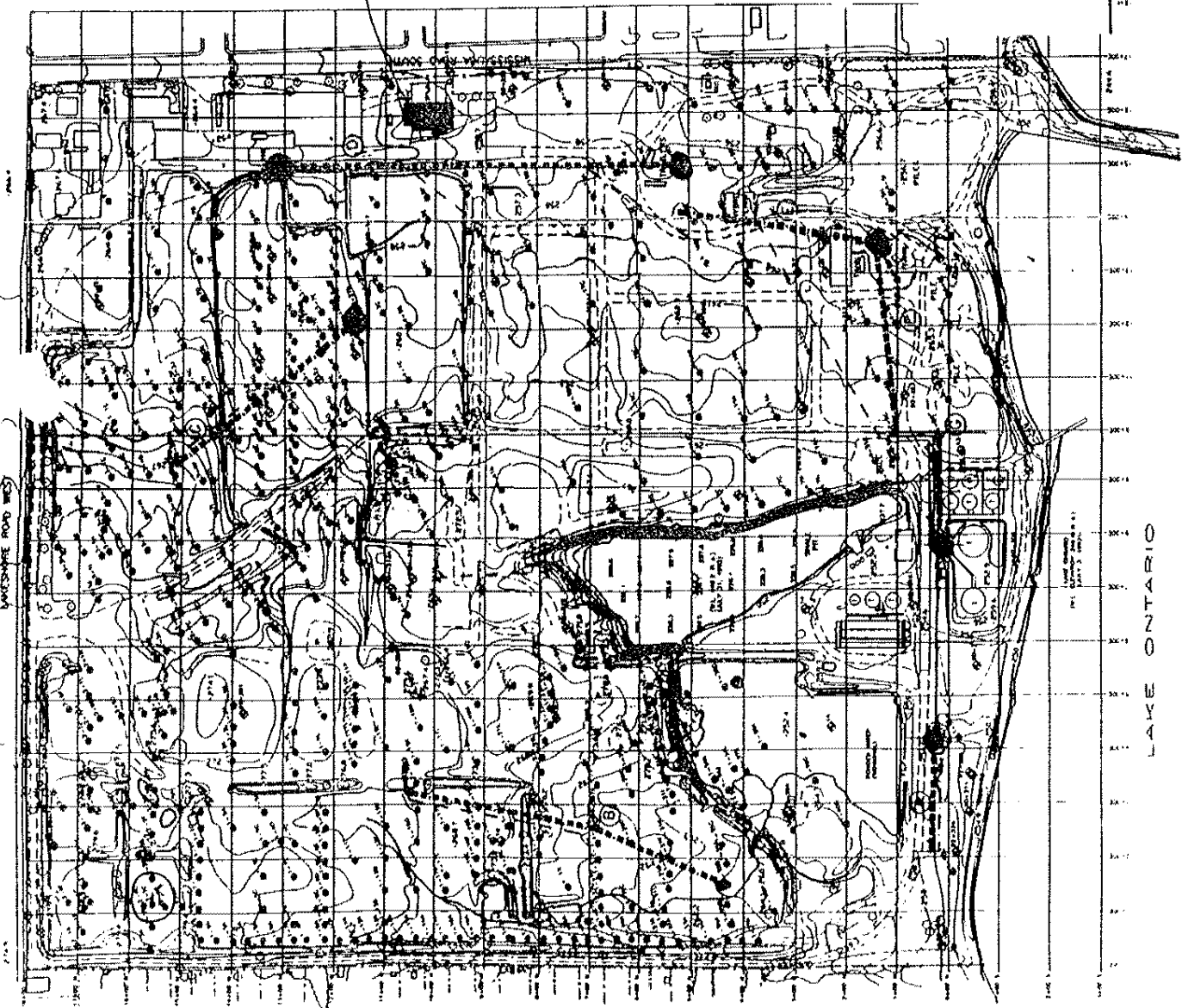
SCALE
1 inch = 100 feet
0 100 200 feet

DATE JAN. 1943
PROJECT 881-1318

GOLDER ASSOCIATES

DR. J. L. GOLDER

DR. J. L. GOLDER





Ministry
of the
Environment

Ontario

Personal information contained on this form is collected under the authority of the Ontario Water Resources Act, Section 20 (3). The purpose of the form is to regulate water takings in order to promote efficient development and equitable use of surface and ground waters. Questions should be directed to the Ministry of the Environment's Regional Office in your area (see listing on the attached Information Sheet).

Application for Permit to Take Water

Ce formulaire est également disponible en français

<input type="checkbox"/> Permit Renewal		Existing Permit No.
<input type="checkbox"/> Permit Amendment		
Name of Applicant <u>IMPERIAL SIC LTD</u>		Telephone <u>968-5343</u>
Mailing Address <u>111 ST CLAIR AVE. W., TORONTO, CANADA M5W 1K3</u>		Postal Code <u>M5W 1K3</u>

Application Particulars

- Please read Instructions on the attached Information Sheet and ensure that all sections of the application form are completed in full especially the section on Request Amount of Taking from each Source.
- Submit a diagram of the area of water in use in the space provided on the reverse side of this form. (Diagram Instructions and example are shown on the Information Sheet). If the taking is from a groundwater source, then a diagram indicating the wells within 300 metres of the taking must be submitted.
- If there are questions concerning the application, please contact the corresponding Ministry of the Environment Regional Office listed on the attached Information Sheet.

A. Source of Water

1) Well: How Many	Spring: How Many	2) Lake, Stream or River Name
1 Pond: How Many	Type: <input type="checkbox"/> Dugout <input type="checkbox"/> By-Pass <input type="checkbox"/> On-Stream <input type="checkbox"/> Pit or Quarry	
4) Other Type of Source <u>EXTRACTION TRENCHES & 6 COLLECTION WELLS</u>		
5) Date of Construction of Source <u>SEPT 15/93</u>		6) Date of Installation of Water Taking Equipment <u>SEPT 20/93</u>

B. Location of Taking

Lot, Concession, Township and County or Region or District; or City, Town or Village with Street and Number <u>10 MISSISSAUGA RD, PORT CREDIT, ONTARIO</u>

C. Location of Water Use: ☐ Same as B. or

Lot, Concession, Township and County or Region or District; or City, Town or Village with Street and Number

D. Purpose of Taking

<input type="checkbox"/> Irrigation <input type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input type="checkbox"/> Municipal <input type="checkbox"/> Public Supply <input type="checkbox"/> Recreation
Other <u>GROUNDWATER extracted for re-injection</u>

E. Period of Water Taking (Complete (1) or (2))

1) Taking to commence on <u>SEPT 30/93</u>	and to extend for a period of	(days, weeks, months, years) <u>10 YEARS</u>
2) Seasonal taking to extend from	to	each year for

F. Request Amount of Taking from each Source *

	Source 1	Source 2	Source 3	State units used (check one)
1) Source Name or Description				<input type="checkbox"/> Imperial Gallon per minute or day
2) Maximum Amount Taken in One Minute	<u>120 L</u>			<input type="checkbox"/> U.S. Gallon per minute or day
3) Maximum Amount Taken in One Day	<u>173,000 L</u>			<input checked="" type="checkbox"/> Litre per minute or day
4) Number of Hours of Taking in One Day - Maximum	<u>24</u>			
- Average	<u>24</u>			
5) Maximum Number of Days of Taking in One Year	<u>365</u>			

* If the taking involves the taking of water into storage, please state the amount of water taken into storage as well as the amount of water withdrawn from storage.

The Applicant agrees to indemnify and save harmless the Crown in right of the Province of Ontario and its officers, employees, agents and contractors from and against all damages, loss, costs, claims, suits, injuries, demands, actions, and proceedings resulting from or in any manner connected with any act or omission of the applicant or any of its officers, employees, agents or contractors relating to this Application and any Permit, Renewal Permit, or terms and conditions of a Permit, issued in response to this Application.

I understand that it is the policy of the Director in issuing a Permit to Take Water to impose the General Terms and Conditions appearing on the reverse side of this application. There are no special circumstances or reasons why the Director should not impose such terms and conditions in issuing the Permit I am applying for. (Note: Cross out the previous sentence if it not applicable to you and enclose with your Application a letter to the Director setting out such reasons and special circumstances.)

Name of Applicant or Agent/Official of Applicant (Please print.) <u>E. PETER MURTON</u>	Signature of Applicant or Agent/Official of Applicant 	Date <u>SEPT/93</u>
--	---	------------------------

For Office Use Only

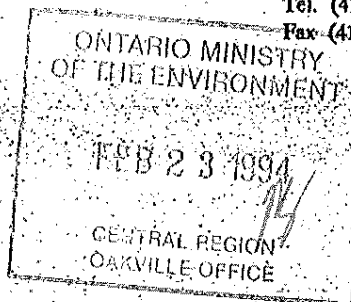
Permit No.	Permit to Take Water	Expiry Date
Pursuant to Section 20 of the Ontario Water Resources Act, permission is hereby granted for the taking of water in accordance with the above Application, subject to the General Terms and Conditions which appear hereon, and subject to the Special Conditions and amendments to the Application Particulars, as follows:		
Notice of Terms and Conditions The Ontario Water Resources Act, Section 61		
Take Notice that in issuing this Permit to Take Water, I have imposed terms and conditions pertaining to the taking of water and to the results of the taking. The terms and conditions have been designed to allow for the development of water resources for beneficial purposes, while providing reasonable protection to existing water uses and to public interests in water.		
You may appeal the terms and conditions by giving written notice to the Director of the Ministry at the appropriate Regional Office (see Information Sheet), and to the Environmental Appeal Board, 112 St. Clair Avenue West, Toronto, Ontario M5V 1A5, within three days after service of this Notice. In the event of an appeal, the terms and conditions of the Permit, as issued, would remain in effect until the appeal has been finalized.		
Name of Regional Office	Name of Director	Signature of Director
		Date

South Property Pump & Treat Discharge Volumes (M³)

p&ldisch.doc

Ministry of
Environment
and EnergyMinistère de
l'Environnement
et de l'Énergie7 Overlea Boulevard
4th Floor
Toronto ON M4H 1A8Tel. (416) 424-3000
Fax (416) 325-63457 boulevard Overlea
4^e étage
Toronto ON M4H 1A8Tel. (416) 424-3000
Fax (416) 325-6345

1994 February 17

Imperial Oil Ltd.
111 St. Clair Avenue West
P.O. Box 4029, Station A
Toronto, ON
M5W 1K3THIS IS CERTIFIED TO
BE A TRUE COPY OF THE
ORIGINAL DOCUMENT

SIGNATURE

DATE

Attention: E. Peter Moreton**RE: PERMIT TO TAKE WATER: GROUNDWATER REMEDIATION
10 MISSISSAUGA ROAD, PORT CREDIT
CITY OF MISSISSAUGA, REGION OF PEEL
FILE: PTTW 94-P-3017**

Enclosed please find Permit No. 94-P-3017 issued to Imperial Oil Ltd. which authorizes the withdrawal of water in accordance with the application for this Permit to Take Water, Schedule "A" and Schedule "B" which are attached to and form part of this Permit.

This Permit is valid until March 31, 2004 and shall be kept available for inspection by Ontario Ministry of Environment and Energy staff.

Take notice that in issuing this Permit to Take Water, terms and conditions pertaining to the taking of water and to the results of the taking have been imposed on Imperial Oil Ltd. The terms and conditions have been designed to allow for the development of water resources for beneficial purposes, while providing reasonable protection to existing water uses and users.

Our main concern is that the taking of water under the authority of this Permit does not cause negative impacts to other water supplies which were in use prior to the date of this Permit. If the taking of water should result in any negative impacts, the permittee will be required to restore the water supplies of those affected in a manner acceptable to the Ontario Ministry of Environment and Energy or to reduce the rate and amount of taking until any negative impacts are eliminated.


Any change of address or ownership of the property for which this Permit is issued must be reported promptly to the Director.

.../2

The issuance of this Permit to Take Water does not relieve you from compliance with this or any other agencies' legislative requirements.

It is the responsibility of Imperial Oil Ltd. to ensure that any person taking water under the authority of this Permit is familiar with and complies with the terms and conditions.

Yours truly,


Edward V. Sado
Director, Section 34
Ontario Water Resources Act

cc: Halton-Peel District Office ✓
File AP-08, City of Mississauga

ac/pptw/issue/194P3017
end

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SIGNATURE

Feb 17/94
DATE

1. PCB Site Identification: 302-86-A006		
2. PCB Holder (contact for site)		
Name of company holding PCB: IMPERIAL OIL		
Contact person: BHAJAN DOSANJH <i>SIER NYHOLDT Liaison</i>		
Telephone No.: (416) 498-		
3. PCB Site Location ESSO PETROLEUM CANADA		
Street: 10 MISSISSAUGA ROAD SOUTH		
City/Town: MISSISSAUGA		
Municipality: PEEL		Postal Code L5G 4M6
4. Corporate Address		
Street: 1210 SHEPPARD AVENUE EAST		90 Wynford Drive, Dan Mills, ON
City/Town: NORTH YORK, ONTARIO		Postal Code M2K 2S8 H3C 2K5
5. GENERATOR REGISTRATION NUMBER: ON1315723		
6. LAST INVENTORY DATE: AUGUST 17, 1992		
7. Liquids	Askeral	Mineral Oil
a. bulk liquid (litres)		
b. transformers (# of)		
c. total liquid in transformers (litres)		
8. Solids		
a. ballasts (# of drums)		
b. other capacitors (# of)	286 (19 DRUMS)	
c. total weight other capacitors (kg)		
d. soil and gravel (# of drums)		
e. total weight not in drums (kg)		
f. clothing, tools, equipment, etc (# of drums)		3
g. total weight not in drums (kg)	/	
ACTIVE		

closed Jan. 24/03



SI-HP-MS-MS-630

Ministry of the
Environment
Central Region
Halton Peel
District Office

Ministère de
l'Environnement
Région du Centre
Bureau de district
de Halton Peel

4145 North Service Road
3rd Floor
Burlington, Ontario
L7L 6L3
Tel. (905) 319-3847
Fax (905) 319-9902

4145, chemin North Service
3e étage
Burlington (Ontario)
L7L 6L3

July 9, 2003

Zia Hasan
Esso Imperial Oil
90 Wynford Drive
Don Mills, ON
M3C 1K5

JB- FYI
Fib

Dear Ms. Hasan;

**Re: PCB Storage Site # 302-86-A006-Decommissioning
10 Mississauga Road South, Mississauga**

This is to confirm that the Ministry of the Environment has reviewed your submission, dated July 2, 2003 from Barenco Environmental Engineering and Site Remediation Services. The verification analysis indicates that the materials sampled are not PCB waste.

Based on the assumption that all potentially contaminated surfaces were sampled and that the sampling was representative of these surfaces, the Ministry acknowledges that the PCB storage building is not PCB contaminated and as such can be dismantled, sold or re-used for other purposes. This acknowledgement pertains only to the PCB storage building and does not pertain to any possible historic spills to the soil or grounds in the vicinity of the PCB storage site or elsewhere on the company property. If decommissioning of the property is required, it may be undertaken in accordance with the Ministry of the Environment's "Guideline For Use At Contaminated Sites In Ontario - June 1996 (revised February 1997)" (available on the Ministry's web site at www.ene.gov.on.ca). The above statements in no way indicate the Ministry of the Environment has accepted responsibility or liability for future environmental problems that may arise at this site or for the re-use or disposal of the PCB storage building materials or any PCB materials not disclosed in your report. The responsibility and liability rests with the property occupant(s) and owner(s).

The Ministry's acknowledgement of decommissioning of the PCB storage building is based on submissions by Esso Imperial Oil, Barenco Environmental Engineering and Site Remediation Services, and PSC Analytical Services. Anyone who does not wish to rely on the findings of the above-noted submission/report will have to engage their own consultants to confirm the adequacies of the decommissioning. If, in the future, environmental conditions at the site change or are found to be significantly different from those currently known to the Ministry of the Environment, the Ministry reserves the right to re-open site investigations and enforce laws and regulations in effect at that time.

If you have any questions or require additional information, please do not hesitate to contact this office by calling (905) 319-3847 or my direct line at (905) 319-3096.

Yours truly,

A handwritten signature in cursive script, appearing to read "Leah Mohammed".

Leah Mohammed
Environmental Officer
Halton Peel District
Ministry of Environment

cc: Mr. Jim Smith, Environment Canada/Attn.: Mrs. N. McGill
Mr. C. Clark - DEH, Peel Regional Health Unit
Communications Sargent, Peel Regional Police Department
Chief Inspector B. Walsh, Corporation of the City of Mississauga-Fire Prevention Office
Mr. Arthur Grannum, City Clerk, The Corporation of the City of Mississauga

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Site Information Survey

☒ Branch to Inspection ☐ Branch to Company ☐ Branch to Menu

Update PCB Record

Start Over

PCB Site 30286A006 Changed:[2003-01-24 09:39:27] By User:[MOHAMMLE] (Current User:MOHAMMLE)

NOTE: All dates are in mm-dd-yyyy format!

Site Number : 30286A006 Cross Reference: Generator:

Region : District: County: Municipality:

Site Desc. : Industry Sector:

Major Site : Sensitive: Site Stat: Archived Site: Indoor: Fenced: Enclosed:

Site Owner : PCB Site Owner

Address1 :

Address2 :

City : Province: Postal Code:

Contact : Area Code: Phone: Extension:

Approval Date : Approved: Final Closing: To be Deleted:

Comment1 :

Comment2 :

PCB Inventory : CE Reg. Inv: Dillon Inv: Major/Minor:

PCB Owner : PCB Inventory Owner

Address 1 :

Address 2 :

City : Province: Postal Code:

Contact : Area Code: Phone: Extension:

Final Closing : Company Status : Historical:

SYSTEM Created Site Owner:01-11-1988 By:ENWS Updated:10-30-1991 By:ENCRDA
SYSTEM Created PCB Owner :01-11-1988 By:ENWS Updated:10-30-1991 By:ENCRDA

PCB Survey

Survey Date : 08-22-2000 Pcb Status: ☒ Archive PCB y/n: ☐

High Levels (over 10,000)

Low Levels (less 10,000)

7A. High Bulk Liquid	:	<input type="text"/>	<input type="text"/>	Low Bulk Liquid	:	<input type="text"/>	<input type="text"/>
7B. High Transformers Count	:	<input type="text"/>	<input type="text"/>	Low Transformers Count	:	<input type="text"/>	<input type="text"/>
7B. High Total Weight in Transformers	:	<input type="text"/>	<input type="text"/>	Low Total Weight in Transformers	:	<input type="text"/>	<input type="text"/>
7C. High Total Liquid in Transformers	:	<input type="text"/>	<input type="text"/>	Low Total Liquid in Transformers	:	<input type="text"/>	<input type="text"/>
8A. High Drums of Ballasts Count	:	<input type="text"/>	<input type="text"/>				
8A. High Total Weight of Ballasts	:	<input type="text"/>	<input type="text"/>				
8B. High Other Capacitors Count	:	<input type="text"/>	<input type="text"/>				
8B.C.High Other Capacitors Weight	:	<input type="text"/>	<input type="text"/>				
8D. High Drums - Soil\Gravel Count	:	<input type="text"/>	<input type="text"/>	Low Drums - Soil\Gravel Count	:	<input type="text"/>	<input type="text"/>
8D. High Drums - Soil\Gravel Weight	:	<input type="text"/>	<input type="text"/>	Low Drums - Soil\Gravel Weight	:	<input type="text"/>	<input type="text"/>
8E. High Total Weight not in Drums	:	<input type="text"/>	<input type="text"/>	Low Total Weight not in Drums	:	<input type="text"/>	<input type="text"/>
8F. High Clothing Tools Etc. Count	:	<input type="text"/>	<input type="text"/>	Low Clothing Tools Etc. Count	:	<input type="text"/>	<input type="text"/>
8F High Clothing Tools Etc. Wght.\Vol.:	:	<input type="text"/>	<input type="text"/>	Low Clothing Tools Etc. Wght.\Vol.:	:	<input type="text"/>	<input type="text"/>
8G. High Total Weight not in Drums	:	<input type="text"/>	<input type="text"/>	Low Total Weight not in Drums	:	<input type="text"/>	<input type="text"/>

SYSTEM Created:01-11-1988 By:ENWS Updated:11-25-1988 By:ENWS

--- End of Update Request ---

Queries

SESSIONFND (Records=1, Time=79ms)
SQL =
SELECT * From [Internet Sessions]

BARENCO

Environmental Engineering
& Site Remediation Services

Barenco Inc., 2561 Stouffville Road, Suite 202
P.O. Box 295, Gormley, Ontario L0H 1G0
Tel: (416) 222-7232 and (905) 887- 6661
Fax: (905) 887-1999
E-mail: barenco@barenco.ca

July 2, 2003

MINISTRY OF
ENVIRONMENT

JUL 09 2003

HALTON PEEL
DISTRICT OFFICE

Ontario Ministry of the Environment
Halton-Peel District Office
4145 North Service Road, Suite 300
Burlington, Ontario
L7L 6A3

Attention: Ms. Leah Mohammed, Environmental Officer

Dear Ms. Mohammed:

Re: PCB Storage Site Number 302-86-A006
10 Mississauga Road South, Port Credit
Decommissioning—PCB Storage Container

July 9/03
J. Mohammed
-noted as
decommissioned,
letter sent.

In response to your letter dated January 24, 2003, and on behalf of Imperial Oil, Barenco Inc. is pleased to forward this summary of the sampling protocol, sampling locations, and analytical results leading to the decommissioning of the empty PCB storage container located on the property at 10 Mississauga Road South, Port Credit.

The designated empty PCB storage container consists of a metal cargo container measuring 5.8 m long by 2.3 m wide by 2.4 m high. A visual inspection and sampling of the container were conducted on May 28, 2003. The visual inspection of the inside and outside of the container provided no evidence of discolouration or oily surfaces. Three representative samples for PCBs were collected from the inside walls of the container using wipe tests as specified by the Ontario Ministry of the Environment, *Protocol for Sampling and Testing at PCB Storage Sites*, January 2000. The locations of the wipe tests are illustrated on Figure 1.

The samples were sent to PSC Analytical Services for analysis, the results from which are listed in Table 1. The Laboratory Certificate of Analysis is attached as Appendix A.

The Ministry of the Environment criteria for a nonporous surface to be considered relatively clean of PCBs is less than or equal to $10 \mu\text{g}/100 \text{ cm}^2$. The results from all three samples collected and analysed for PCBs are less than this criterion and below the analytical method detection limit of $0.32 \mu\text{g}/100 \text{ cm}^2$ for total PCBs. Therefore, this storage container can now be considered as non-PCB contaminated.

.... 2



Professional Engineers
Ontario

000258

July 2, 2003

2

PCB Storage Site 302-86-A006, 10 Mississauga Road South, Port Credit

The environmental sampling and analyses were conducted in accordance with generally accepted professional practices. Limitation of liability, scope of report and third party reliance are attached as Appendix B.

Respectfully submitted,
BARENCO INC.



Patrick Ferris, E.I.T.
Chemical Engineering

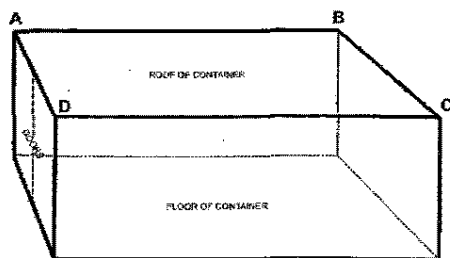
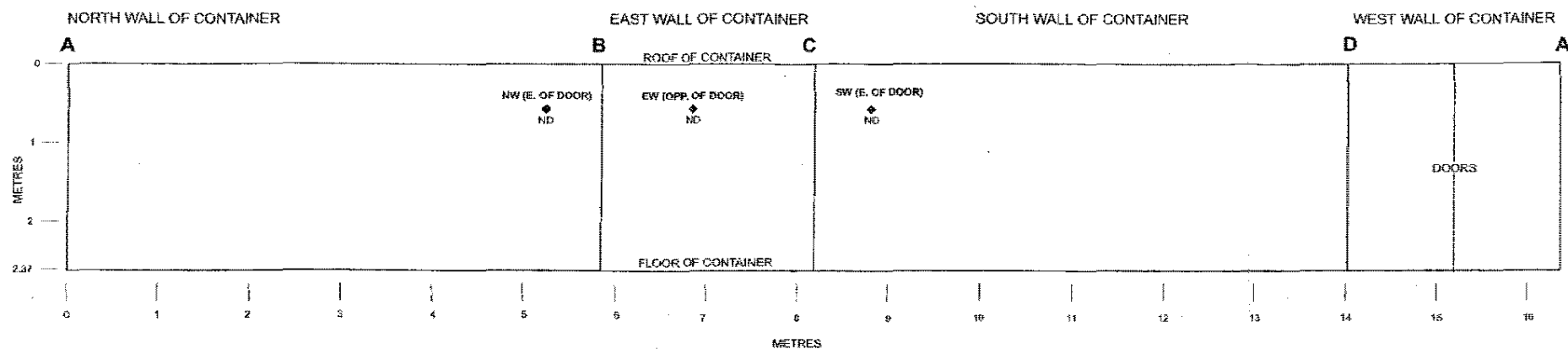


Todd Ellenor, M.Eng., P.Eng.
Chemical Engineer



attachments: • Figure 1: Wipe Test Sample Locations
• Table 1: PCBs Chemical Analysis
• Appendix A: Laboratory Certificate of Analysis
• Appendix B: Limitation of Liability, Scope of Report and Third Party Reliance

cc: Zia Hasan, Imperial Oil



3 - DIMENSIONAL VIEW OF CONTAINER

SCALE:		NOTES:	
SCALE IN METRES AS SHOWN		ND = NOT DETECTED	
SOURCE:		BARENCO FIELD STAFF OBSERVATIONS	
BARENCO	DRAWN BY	CHECKED BY	
	C.S.	T.E.	

02150 CONTAINER

PCB STORAGE CONTAINER CROSS-SECTION		FIGURE 1
IMPERIAL OIL		
10 MISSISSAUGA ROAD SOUTH PORT CREDIT, ONTARIO		
BARENCO JOB NUMBER: 02150		DATE: JUNE 2003

Table 1

PCBs CHEMICAL ANALYSIS - Storage Container

PCB Storage Site Number 302-86-A006

10 Mississauga Road South

Port Credit, Ontario

Page 1 of 1

Sample Name	MDL	EW (OPP. OF DOOR)	NW (E. OF DOOR)	SW (E. OF DOOR)	Ontario Criterion for Nonporous Hard Surfaces of Structures and Buildings
Sample Date		28-May-03	28-May-03	28-May-03	
Laboratory No.		025002 03	025003 03	025004 03	
Arocolor-1016	0.30	ND	ND	ND	
Arocolor-1221	0.30	ND	ND	ND	
Arocolor-1232	0.30	ND	ND	ND	
Arocolor-1242	0.30	ND	ND	ND	
Arocolor-1248	0.30	ND	ND	ND	
Arocolor-1254	0.31	ND	ND	ND	
Arocolor-1260	0.30	ND	ND	ND	
Arocolor-1262	0.30	ND	ND	ND	
Arocolor-1268	0.32	ND	ND	ND	
Total PCBs	0.32	ND	ND	ND	10

Analysis performed by PSC Analytical Services.

All concentrations reported in ug/100 cm² (ND = not detected).

MDL = method detection limit.

Exceedences of Criterion in **bold**.

BARENCO INC.

02150

APPENDIX A
Laboratory Certificate of Analysis

BARENCO

Certificate of Analysis

CLIENT INFORMATION

Attention: Todd Ellenor
Client Name: Barenco Inc.
Project: 02150
Project Desc: 10 Mississauga Rd, Mississauga

Address: 2561 Stouffville Rd.
Box 295
Gormley, ON
L0H 1G0

Fax Number: 905-887-1999 #22

Phone Number: 905-887-6661

LABORATORY INFORMATION

Contact: Kyla Simpson, BSc
Project: AN030113
Date Received: 29-May-2003
Date Reported: 06-Jun-2003

Submission No.: 3E1096
Sample No.: 025001-025004

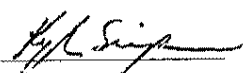
NOTES:

'-' = not analysed '<' = less than Method Detection Limit (MDL) 'NA' = no data available
LOQ can be determined for all analytes by multiplying the appropriate MDL X 3.33
Extraction correction is only performed on oil and grease, BTEX, total purgeable hydrocarbons
and VOC analyses when Canadian methods are utilized.
Solids data is based on dry weight except for biota analyses.
Organic analyses are not corrected for extraction recovery standards except for isotope
dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DBD/DBF analyses)

Methods used by PSC Analytical Services are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', Twentieth Edition. Other methods are based on the principles of MISA or EPA methodologies. New York State: ELAP Identification Number 10756. All data is in statistical control unless otherwise flagged. Acceptance criteria for analytical QC has been met unless otherwise flagged.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client and testing company in writing. Any and all use of these test results shall be limited to the actual cost of the pertinent analysis done. There is no other warranty expressed or implied. Your samples will be retained at PSC Analytical Services for a period of three weeks from receipt of data or as per contract.

COMMENTS:

Certified by: 

Page 1 of 3

ASC - Certificate of Analysis

Component	Client ID:		Method	Method	Method	EW (OPP.	NW (E.	SW (E.
	Lab No.:		Blank	Blank	Blank	OF DOOR)	OF DOOR)	OF DOOR)
	Date Sampled:		025001 03	025001 03	025001 03	025002 03	025003 03	025004 03
	MDL	Units	28-May-2003	28-May-2003	28-May-2003	28-May-2003	28-May-2003	28-May-2003
				M. Spike	MS % Rec.			
Aroclor-1016	0.30	ug	<	NA	NA	<	<	<
Aroclor-1221	0.30	"	<	NA	NA	<	<	<
Aroclor-1232	0.30	"	<	NA	NA	<	<	<
Aroclor-1242	0.30	"	<	4.0	99	<	<	<
Aroclor-1248	0.30	"	<	NA	NA	<	<	<
Aroclor-1254	0.31	"	<	NA	NA	<	<	<
Aroclor-1260	0.30	"	<	NA	NA	<	<	<
Aroclor-1262	0.30	"	<	4.1	100	<	<	<
Aroclor-1268	0.32	"	<	NA	NA	<	<	<
Total PCB	0.32	"	<	8.1	100	<	<	<
Surrogate Recoveries		%						
4,4'-Dibromooctafluorobiphenyl			57	62	-	63	68	67
Decachlorobiphenyl			93	103	-	104	101	97

6/6/03

PASC - Summary of Analysis Pre. Dates

Page MS-3 of 3

Date Shipped: 03/05/29

Temperature: 6.0C Avg

Batch Code: 0602MG01

Aroclor-1016 025001 03

025002 03

025003 03

025004 03

Date Analysed: 03/06/02

Date Prepared: 03/06/02



PSC ANALYTICAL SERVICES

5555 North Service Road
Burlington, Ontario L7L 5H7

Tel: (905) 332-8786
Fax: (905) 332-9169
Toll Free: 1-800-668-0639

IOL/PSC CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Page 1 of 1

ANALYSIS REQUEST

COMPANY NAME: BALLENCO		PH #: 905 807 6661																					
COMPANY ADDRESS: 2500 DUFFVILLE RD MISSISSAUGA, ONT L4W 1G7		FAX #: 905 887 1999																					
CLIENT PROJECT ID: (#) 02150																							
SAMPLE NAME (PRINT) PA FERRIS		PROJECT MANAGER TOOD ELLIENOR																					
Field Sample ID	PSC LAB #	MATRIX (SPECIFY)	# CONTAINERS	DATE	TIME	BTEX & PURGEABLES	TEH COLD EXTRACTABLE	TEH HEAVY OILS	OIL & GREASE (SPECIFY TOTAL OR MINERAL)	VOLATILES	PCB'S	PAH'S	LEAD	ICP METALS	DECOM / ICPMS METALS	MERCURY	SAR / CR VI (SPECIFY)	BORON HOT WATER SOLUBLE	IGNITABILITY	RES 558 - INORGANICS	REG 558 PCB LEACHATE	REG 558 - ZHE 8TEX / VOLATILES (SPECIFY)	
1 OPP. OF 00002	02	SOLID	1	5/28/03	1300																		
2 E OF 00002	03	"	"	5/28/03	"																		
3 E OF 00002	04	"	"	"	"																		
4																							
5																							
6																							
7																							
8																							
9																							
10																							

IOL SITE LOCATION 10 MISSISSAUGA ROAD MISSISSAUGA, ONT L4W 1G7		SPECIAL DETECTION LIMITS / CONTAINMENT TYPE / REGULATORY CRITERIA GUCSO		LAB USE ONLY	
PSC TASK ORDER # 11038270		SPECIAL REPORTING OR BILLING INSTRUCTIONS EDT <input type="checkbox"/>		LAB INFORMATION 6.0°C Avg	
IOL CONTACT: ZIA HASAN					
COOLER ID 02150-1	CUSTODY SEAL YES	COOLER ID	CUSTODY SEAL	COOLER ID	CUSTODY SEAL
TEMP 5.5/5.9/6.0	INTACT YES	TEMP	INTACT	TEMP	INTACT
RELINQUISHED BY PA FERRIS		DATE: 5/29/03		TIME: 0830	
RECEIVED BY: [Signature]		DATE: 03/05/29		TIME: 1300	
				LABORATORY SUBMISSION #: 3E10916	

WHITE - LAB

CANARY - IOL

PINK - LAB FAX

GOLDENROD - CONSULTANT

WD TAT

Regular (days) ☒
Rush (days) ☐

Non Requir. (days) ☐
IOL Approv. (days) ☐

000266

APPENDIX B
**Limitation of Liability, Scope of Report
and Third Party Reliance**

B A R E N C O

LIMITATION OF LIABILITY, SCOPE OF REPORT AND THIRD PARTY RELIANCE

This report has been prepared and the work referred to in this report has been undertaken by Barenco Inc. for Imperial Oil. It is intended for the sole and exclusive use of Imperial Oil, its affiliated companies and partners and their respective insurers, agents, employees and advisors (collectively, "Imperial Oil"). Any use, reliance on or decision made by any person other than Imperial Oil based on this report is the sole responsibility of such other person. Imperial Oil and Barenco Inc. make no representation or warranty to any other person with regard to this report and the work referred to in this report and they accept no duty of care to any other person or any liability or responsibility whatsoever for any losses, expenses, damages, fines, penalties, or other harm that may be suffered or incurred by any other person as a result of the use of, reliance on, any decision made or any action taken based on this report or the work referred to in this report.

The investigation undertaken by Barenco Inc. with respect to this report and any conclusions or recommendations made in this report reflect Barenco Inc.'s judgement based on the site conditions observed at the time of the site inspection on the date(s) set out in this report and on information available at the time of preparation of this report. This report has been prepared for specific application to this site and it is based, in part, upon visual observation of the site, subsurface investigation at discrete locations and depths, and specific analysis of specific chemical parameters and materials during a specific time interval, all as described in this report. Unless otherwise stated, the findings cannot be extended to previous or future site conditions, portions of the site which were unavailable for direct investigation, subsurface locations which were not investigated directly, or chemical parameters, materials or analysis which were not addressed. Substances other than those addressed by the investigation described in this report may exist within the site, substances addressed by the investigation may exist in areas of the site not investigated and concentrations of substances addressed which are different than those reported may exist in areas other than the locations from which the samples were taken.

If site conditions or applicable standards change or if any additional information becomes available at a future date, modifications to the findings, conclusions and recommendations in this report may be necessary.

Other than by Imperial Oil, copying or distribution of this report or the use of or reliance on the information contained herein, in whole or in part, is not permitted without the express written permission of Barenco Inc. Nothing in this report is intended to constitute or provide a legal opinion.



Imperial Oil

MINISTRY OF
ENVIRONMENT

SI-HP-MS-MI-630

Products and Chemicals Division

FEB 20 2003

90 Wynford Drive
Don Mills, Ontario
Canada M3C 1K5

J. C. Strasse
Manager
HALTON PEEL
DISTRICT OFFICE

Engineering, Maintenance
& Remediation
Fax: (416)-441-7650

February 17, 2003
File No: Port Credit

Ministry of Environment
Halton Peel District Office
4145 North Service Road, Suite 300
Burlington, Ontario,
L7L 6A3

Attention: Leah Mohammed, Environmental Officer.

Dear Madam:

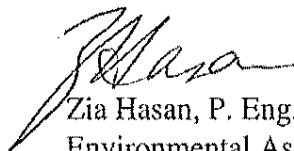
Re: PCB Storage Site # 302-86-A006, 10 Mississauga Road South, Mississauga, Ontario

This is in response to your letter dated January 24, 2003 addressed to Seip Nyholt. We understand from this letter that the above reference site is now deemed as "closed" on the Provincial PCB Inventory System.

As per your letter we are required to decommission the PCB metal storage container located at the above site as per Ontario Regulation 347 and Ontario Regulation 362. We will undertake to do this in the spring of this year and report the findings back to you.

Thank you for your co-operation in this matter. If you have any further questions, please give me a call at 416-441-7862.

Yours truly,


Zia Hasan, P. Eng.
Environmental Associate

cc: Roger Bywater, IOL
George Kirchmair, Barenco

FEB-20-2003 09:03

I.O.L.-E.M.&R.

P.01/02

Imperial Oil Limited
90 Wynford Drive
North York, Ontario
M3C 1K5

J.C. Strasser
Manager
Engineering, Maintenance &
Remediation

Tel. (416) 441-7830
Fax. (416) 441-7650

Facsimile Transmission Cover Sheet

Date:

Feb 20 / 03

To	From
Name LEAH MOHAMMED	Name ZIA HASAN
Company MOE	Location 90 Wynford Drive
Address BURLINGTON	
	North York, Ontario M3C 1K5
City	Phone No
Fax Number 905-319-9902	Fax Reply Number 416-441-7650
Number of pages sent including this one: 2	

Message:

Re: RESPONSE TO YOUR LETTER
DATED JAN 24 / 03 RE 10 MISSISSAUGA
RD, PCB.

Zia

The information contained in this facsimile/message may be confidential and may also contain privileged solicitor-client information or work product. The information is intended only for the use of the individual or entity to which it is addressed. If you are not the intended recipient, or the employee or agent responsible to deliver it to the intended recipient, you are hereby notified that any use, dissemination, distribution, or copying of this communication is strictly prohibited. If you have received the facsimile in error, please notify us by telephone immediately. Thank you.

FEB-20-2003 09:03

I.O.L.-E.M.&R.

P.02/02



Imperial Oil

Products and Chemicals Division90 Wynford Drive
Don Mills, Ontario
Canada M3C 1K5J. C. Strasser
ManagerEngineering, Maintenance
& Remediation
Fax: (416)-441-7650February 17, 2003
File No: Port CreditMinistry of Environment
Halton Peel District Office
4145 North Service Road, Suite 300
Burlington, Ontario,
L7L 6A3

Attention: Leah Mohammed, Environmental Officer.

Dear Madam:


Re: PCB Storage Site # 302-86-A006, 10 Mississauga Road South, Mississauga, Ontario

This is in response to your letter dated January 24, 2003 addressed to Seip Nyholt. We understand from this letter that the above reference site is now deemed as "closed" on the Provincial PCB Inventory System.

As per your letter we are required to decommission the PCB metal storage container located at the above site as per Ontario Regulation 347 and Ontario Regulation 362. We will undertake to do this in the spring of this year and report the findings back to you.

Thank you for your co-operation in this matter. If you have any further questions, please give me a call at 416-441-7862.

Yours truly,

Zia Hasan, P. Eng.
Environmental Associatecc: Roger Bywater, IOL
George Kirchmaier, Barenco

TOTAL P.02

000271

Ministry of the
Environment

Ministère de
l'Environnement

4145 North Service Road
Suite 300
Burlington, Ontario
L7L 6A3

4145, rue North Service
suite 300
Burlington, (Ontario)
L7L 6A3

Central Region
Halton Peel District
Office

Région du Centre
Bureau de district
de Halton Peel

Tel. (905) 319-3847
Fax (905) 319-9902

January 24, 2003

Esso Imperial Oil-Products and Chemicals Division
90 Wynford Drive
Don Mills, ON
M3C 1K5

Dear : Mr. Nyholt

Re: PCB Storage Site # **302-86-A006**
10 Mississauga Road South.
Mississauga, ON

This is to confirm that the Ministry of the Environment has reviewed your submission, dated August 22, 2000. Based on the information that you have provided, the Ministry will change the status of this site to "closed" on the Provincial PCB Inventory System. Therefore, with the site being deemed as "closed" the original PCB Storage Site Director's Instructions are cancelled. The current inventory will also be changed to reflect that this site is currently empty.

In order to dismantle, sell or reuse the PCB storage building you must decommission the structure by ensuring all surfaces (porous and non-porous) are tested and are not PCB contaminated. The decommissioning of the PCB storage sites is a requirement of *Ontario Regulation 347* and *Ontario Regulation 362*. As a result, please complete the decommissioning as per the procedures outlined in the Ministry of the Environment's report entitled "Protocol for Sampling and Testing at PCB Storage Sites in Ontario" (available on the Ministry's web site at www.ene.gov.on.ca) and provide sampling results to the Ministry of the Environment to verify that the PCB storage site surfaces were tested and are at non-PCB levels.

Metal or non-porous surfaces which have or could potentially have been PCB contaminated must be wipe tested. The non-porous surfaces are considered non-PCB wastes if the wipe tests of representative samples indicate PCB concentrations of less than 10 µg/100 cm². If the results are greater than 10 µg/100 cm², you may submit your proposal for decontaminating these surfaces, to this office, with a request that the appropriate Director's Instructions be issued under Clause 6(b) of the *Ontario Regulation 362*.

Porous materials which have or could potentially have been PCB contaminated must be representatively tested using the *Ontario Regulation 347* TCLP test. Porous materials which have results greater than 0.3 mg/L are considered to be leachate toxic for PCBs and must be stored, treated and/or disposed of accordingly.

If the results of the tests or otherwise, you discover any PCB material, you must report to this office a PCB inventory (*Reg. 347*, Subsection 18(10)) along with your plans to: a) decontaminate, b) ship off-site for destruction or c) further store on-site.

Please advise and provide confirmation to this office, by February 28, 2003 that this storage site physical structure is not PCB contaminated or your plans to obtain this verification.

If you have any questions or require additional information, please do not hesitate to contact this office by calling (905) 319-3847 or my direct line at (905) 319-3083.

Yours truly,

A handwritten signature in cursive script, appearing to read "Leah Mohammed".

Leah Mohammed
Environmental Officer
Halton-Peel District
Ministry of the Environment

cc: Mr. Jim Smith, Environment Canada/Attn.: Mrs. N. McGill
Mr. C. Clark - DEH, Peel Regional Health Unit
Communications Sargent, Peel Regional Police Department
Chief Inspector R. Chalk, Mississauga Fire Department
Mr. Arthur Grannum, City Clerk, The Corporation of the City of Mississauga

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Site Information Survey

☒ Branch to Inspection ☐ Branch to Company ☐ Branch to Menu

Update PCB Record

Start Over

PCB Site 30286A006 Changed:[2000-09-06 12:55:03] By User:[saleman] (Current User:MOHAMMLE)

NOTE: All dates are in mm-dd-yyyy format!

Site Number :30286A006 Cross Reference: Generator: ON1315723
Region :03 District:305 County:PEEL Municipality:Mississauga
Site Desc.:?? Industry Sector:?
Major Site :N Sensitive:N Site Stat:C Archived Site:Y Indoor:? Fenced:? Enclosed:?
Site Owner :ESSO PETROLEUM CANADA PCB Site Owner
Address1 :10 Mississauga Road South
Address2 :
City :MISSISSAUGA Province:ONT Postal Code:L5G4M6
Contact :SIEP NYHOLT Area Code:905 Phone:278-5513 Extension:
Approval Date :01-01-1988 Approved:Y Final Closing: To be Deleted:N
Comment1 :ESSO BOUGHT FACILITIES FROM TEXACO
Comment2 :
PCB Inventory :Y CE Reg. Inv:Y Dillon Inv:Y Major/Minor:MN
PCB Owner : PCB Inventory Owner
Address 1 :Imperial Oil - Products and Chemicals Divi

Address 2 : 90 Wynford Drive
City : Don Mills Province: ON Postal Code: M3C 1K5
Contact : Siep Nyholt Area Code: 905 Phone: 278-5513 Extension:
Final Closing : Company Status : ☐ A Historical: ☐ Y
SYSTEM Created Site Owner: 01-11-1988 By: ENWS Updated: 10-30-1991 By: ENCRDA
SYSTEM Created PCB Owner : 01-11-1988 By: ENWS Updated: 10-30-1991 By: ENCRDA

PCB Survey

Survey Date : 08-22-2000 Pcb Status: ☐ E Archive PCB y/n: ☐
High Levels (over 10,000) Low Levels (less 10,000)

7A. High Bulk Liquid	: <input type="text"/>	<input type="checkbox"/>	Low Bulk Liquid	: <input type="text"/>	<input type="checkbox"/>
7B. High Transformers Count	: <input type="text"/>	<input type="checkbox"/>	Low Transformers Count	: <input type="text"/>	<input type="checkbox"/>
7B. High Total Weight in Transformers	: <input type="text"/>	<input type="checkbox"/>	Low Total Weight in Transformers	: <input type="text"/>	<input type="checkbox"/>
7C. High Total Liquid in Transformers	: <input type="text"/>	<input type="checkbox"/>	Low Total Liquid in Transformers	: <input type="text"/>	<input type="checkbox"/>
8A. High Drums of Ballasts Count	: <input type="text"/>	<input type="checkbox"/>			
8A. High Total Weight of Ballasts	: <input type="text"/>	<input type="checkbox"/>			
8B. High Other Capacitors Count	: <input type="text"/>	<input type="checkbox"/>			
8BC. High Other Capacitors Weight	: <input type="text"/>	<input type="checkbox"/>			
8D. High Drums - Soil\Gravel Count	: <input type="text"/>	<input type="checkbox"/>	Low Drums - Soil\Gravel Count	: <input type="text"/>	<input type="checkbox"/>
8D. High Drums - Soil\Gravel Weight	: <input type="text"/>	<input type="checkbox"/>	Low Drums - Soil\Gravel Weight	: <input type="text"/>	<input type="checkbox"/>
8E. High Total Weight not in Drums	: <input type="text"/>	<input type="checkbox"/>	Low Total Weight not in Drums	: <input type="text"/>	<input type="checkbox"/>
8F. High Clothing Tools Etc. Count	: <input type="text"/>	<input type="checkbox"/>	Low Clothing Tools Etc. Count	: <input type="text"/>	<input type="checkbox"/>
8F High Clothing Tools Etc. Wght.\Vol.:	: <input type="text"/>	<input type="checkbox"/>	Low Clothing Tools Etc. Wght.\Vol.:	: <input type="text"/>	<input type="checkbox"/>
8G. High Total Weight not in Drums	: <input type="text"/>	<input type="checkbox"/>	Low Total Weight not in Drums	: <input type="text"/>	<input type="checkbox"/>

SYSTEM Created: 01-11-1988 By: ENWS Updated: 11-25-1988 By: ENWS

51-HP-MS-MS-630

Medium Priority

Task#

8,010,255

Cross Reference:

WH

Please review the submission from Imperial Oil and update the PCB inventory and deregister the site if possible.

Created On: Aug 30, 2000

By: Adcock, Bob

Halton-Peel District (Burlington)

Workplan Program/Activity: Waste - Hazard. & Liq. Ind., General (No related Specific Activity)

Location: Mississauga, City of

Received: Aug 30, 2000

Due Date: Sep 29, 2000

Completed:

Assignments

Assigned	Assigned By	Assigned To	Required Product	Due Date	Completed
Aug 30, 00	Adcock, Bob	Adcock, Bob	ASSIGN TASK	Sep 29, 2000	Aug 30, 2000
Aug 30, 00	Adcock, Bob	Salemi, Anna	update PCB inventory & deregister site	Sep 29, 2000	

Keywords

updated Sept 6/00

Notes

Date	Staff Name	Note
Aug 30, 2000	Adcock, Bob	This might be a duplicate task

see Task # 8010246

Time

Date	Staff Name	Reg Hours	Other	SubTotal
Aug 30, 2000	Adcock, Bob	0.50	0.00	0.50
		0.50	0.00	0.50

Send letter



Imperial Oil

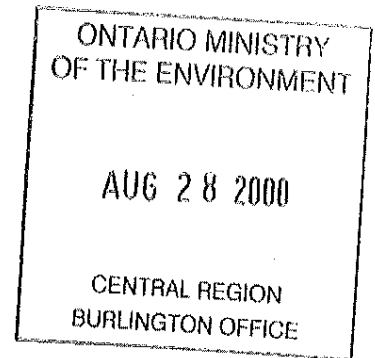
Imperial Oil
Products and Chemicals Division
90 Wynford Drive
Don Mills, Ontario
Canada M3C 1K5
Fax: 416-441-7850

J.C. Strasser
Manager

Marketing Engineering Services

August 22, 2000

Ontario Ministry of Environment
Environmental Monitoring & Reporting
Halton-Peel District
1182 North Shore Blvd., East
Burlington, Ontario
L7R 3Z9



Attention: Ms. Anna Salemi - Environmental Officer

Re: PCB Site #302-86A006
10 Mississauga Road South, Mississauga, Ontario

Please find attached, a copy of the manifest which effectively represents the removal of the complete inventory of stored PCBs at the subject site for the purpose of disposal at the Swan Hills, Alberta licensed facility.

I would ask that the appropriate steps be taken to "un-register" this site as a PCB storage facility. Should you require any further information, please contact the undersigned at (905) 278-5513.

Yours truly,

Siep Nyholt, CET
Site Remediation Specialist

cc: Mr. John Budz, P.Eng. - MOE (l/att.)

MANIFEST - MANIFESTE

This Manifest conforms to all Federal and Provincial transport and environmental legislation requiring manifesting.
Ce manifeste est conforme aux législations fédérale et provinciale sur l'environnement et le transport, requérant un manifeste.

Manifest Reference No.
N° de référence du manifeste

NN23664-1

A Consignor (Generator) Expéditeur (Producteur) Provincial ID No. / N° d'id. provincial Company name / Nom de l'entreprise ESSO Imperial oil Limited Mailing address / Adresse postale City / Ville Province Postal code / Code postal 710 Jean Talon Ave. QC H1M-3R8 Shipping site address / Origine de l'expédition 10 Mississauga RD South City / Ville Province Postal code / Code postal MISSISSAUGA ON M5H 1A1 Intended consignee / Destinataire prévu Bouar waste Management Provincial ID No. / N° d'id. provincial ABR 1047 Address / Adresse City / Ville Province Postal code / Code postal P.O. Box 180 Swan Hills AB T0G-2C0 Receiving site address / Destination de l'expédition Site Plant City / Ville Province Postal code / Code postal Swan Hills AB T0G-2C0		B Carrier Transporteur Provincial ID No. / N° d'id. provincial A860183 Company name / Nom de l'entreprise ONGX industries Address / Adresse 7887 rue Grenache City / Ville Province Postal code / Code postal ANJOU QC H1S-1C9 Vehicle / Véhicule B 65823 Trailer/Rail Car No. 1 1LH 68667 Trailer/Rail Car No. 2 QC Point of entry / Point d'entrée Point of exit / Point de sortie Carrier Certification: I declare that I have received waste as offered by the consignor in Part A for delivery to the intended consignee and that the information contained in Part B is complete and correct. / Déclaration du transporteur: J'affirme avoir reçu les déchets offerts par l'expéditeur dans la partie A en vue de leur livraison au destinataire choisi et que les renseignements inscrits à la partie B sont exacts et complets. Year / Année Month / Mois Day / Jour Name of authorized person (print) / Nom de l'agent autorisé (caractères d'imprimerie) 2007 07 26 Claude Bloude Signature / Signature Tel. No. / N° de tél. 1-866-666-6666 514-351-7264		C Consignee (Receiver) Destinataire (Réceptionnaire) Provincial ID No. / N° d'id. provincial Consignee information same as Intended Consignee in Part A L'information à fournir par le destinataire est la même qu'en A <input type="checkbox"/> Yes / Oui <input type="checkbox"/> No, complete the boxed area below Company name / Nom de l'entreprise Address / Adresse City / Ville Province Postal code / Code postal Receiving site address / Destination de l'expédition City / Ville Province Postal code / Code postal Date received / Date de réception Year / Année Month / Mois Day / Jour Time / Heures <input type="checkbox"/> A.M. <input type="checkbox"/> P.M. <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Quantity received / Quantité reçue</th> <th rowspan="2">Units L or kg / unités</th> <th rowspan="2">Identify any shipment discrepancy problems. Attach addendum if necessary. / Indiquer toute différence relative à l'expédition. Annexer une feuille au besoin.</th> <th rowspan="2">Handling code / Code de manutention</th> <th colspan="2">Decontamination / Décontamination</th> </tr> <tr> <th>Packaging / Conteneurs</th> <th>Vehicle / Véhicule</th> </tr> <tr> <th>Yes / Oui</th> <th>No / Non</th> <th>Yes / Oui</th> <th>No / Non</th> <th>Yes / Oui</th> <th>No / Non</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		Quantity received / Quantité reçue	Units L or kg / unités	Identify any shipment discrepancy problems. Attach addendum if necessary. / Indiquer toute différence relative à l'expédition. Annexer une feuille au besoin.	Handling code / Code de manutention	Decontamination / Décontamination		Packaging / Conteneurs	Vehicle / Véhicule	Yes / Oui	No / Non	Yes / Oui	No / Non	Yes / Oui	No / Non																								
Quantity received / Quantité reçue	Units L or kg / unités	Identify any shipment discrepancy problems. Attach addendum if necessary. / Indiquer toute différence relative à l'expédition. Annexer une feuille au besoin.	Handling code / Code de manutention	Decontamination / Décontamination																																							
				Packaging / Conteneurs	Vehicle / Véhicule																																						
Yes / Oui	No / Non	Yes / Oui	No / Non	Yes / Oui	No / Non																																						
Physical state / Etat physique Shipping name of waste / Appellation réglementaire du déchet S waste biphenyls polychlorés S WPS 15490 capacitors S waste biphenyls polychlorés S WPS 17115 Ballasts S waste biphenyls polychlorés S WPS 15471 PCB solids		Waste identification / Identification du déchet Provincial No. / N° (Quebec-Ontario only) / (Québec-Ontario seul) 207 243-0 TDGA/PIN LTMD/NIP UN2315 Quantity shipped / Quantité expédiée 2500 Units L or kg / unités kg Classification II Packing group / Groupe d'emballage II Codes Int-ext. 16 01		Special handling/Emergency instructions / Manutention spéciale/instructions d'urgence Canotec 613-996-6666 CSAL 780-333-2083 EXT 103 Date shipped / Date d'expédition Year / Année Month / Mois Day / Jour 2007 07 26 Time / Heures 1600 <input type="checkbox"/> A.M. <input type="checkbox"/> P.M. Scheduled arrival date / Date d'arrivée prévue Year / Année Month / Mois Day / Jour 2007 07 31 Consignor Certification: I declare that the information contained in Part A is correct and complete. / Déclaration de l'expéditeur: Je déclare que tous les renseignements à la partie A sont vérifiés et complets. Name of authorized person (print) / Nom de l'agent autorisé (caractères d'imprimerie) J. HYATT Signature / Signature Tel. no. / N° de tél. 1-805-278-5511																																							

Retained by Consignor (Generator) - Gardée par l'expéditeur

Copy / Copie 2 (green / verte)

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Site Information Survey

☒ Branch to Inspection ☐ Branch to Company ☐ Branch to Menu

Update PCB Record

Start Over

PCB Site 30286A006 Changed:[2000-02-02 15:49:33] By User:[saleman] (Current User:saleman)

NOTE: All dates are in mm-dd-yyyy format!

Site Number : 30286A006 Cross Reference: Generator: ON1315723
 Region : 03 District: 302 County: PEEL Municipality: Mississauga
 Site Desc. : ?? Industry Sector: ?
 Major Site : N Sensitive: N Site Stat: A Archived Site: N Indoor: ? Fenced: ? Enc:
 Site Owner : ESSO PETROLEUM CANADA PCB Site Owner
 Address1 : 10 Mississauga ROAD SOUTH
 Address2 :
 City : MISSISSAUGA Province: ONT Postal Code: L5G4M6
 Contact : SIEP NYHOLT Area Code: 905 Phone: 2785513 Extensic
 Approval Date : 01-01-1988 Approved: Y Final Closing: To be Deleted: N
 Comment1 : ESSO BOUGHT FACILITIES FROM TEXACO
 Comment2 :
 PCB Inventory : Y CE Reg. Inv: Y Dillon Inv: Y Major/Minor: MN
 PCB Owner : PCB Inventory Owner
 Address 1 : ESSO PETROLEUM CANADA
 Address 2 : 1210 SHEPPARD AVENUE EAST
 City : WILLOWDALE Province: ONT Postal Code: M2K 2S8
 Contact : Area Code: Phone: Extensic
 Final Closing : Company Status : C Historical: N
 SYSTEM Created Site Owner:01-11-1988 By:ENWS Updated:10-30-1991 By:ENCRDA
 SYSTEM Created PCB Owner :01-11-1988 By:ENWS Updated:10-30-1991 By:ENCRDA

PCB Survey

Survey Date : 08-22-2000 Pcb Status: E Archive PCB y/n: N
 High Levels (over 10,000)
 7A. High Bulk Liquid : Low Bulk Liquid
 7B. High Transformers Count : Low Transformers Count
 7B. High Total Weight in Transformers : Low Total Weight in Transforme
 7C. High Total Liquid in Transformers : Low Total Liquid in Transforme
 8A. High Drums of Ballasts Count :
 8A. High Total Weight of Ballasts :

8B. High Other Capacitors Count	:	<input type="text"/>		
8BC. High Other Capacitors Weight	:	<input type="text"/>	<input type="text"/>	
8D. High Drums - Soil\Gravel Count	:	<input type="text"/>		Low Drums - Soil\Gravel Count
8D. High Drums - Soil\Gravel Weight	:	<input type="text"/>	<input type="text"/>	Low Drums - Soil\Gravel Weight
8E. High Total Weight not in Drums	:	<input type="text"/>	<input type="text"/>	Low Total Weight not in Drums
8F. High Clothing Tools Etc. Count	:	<input type="text"/>		Low Clothing Tools Etc. Count
8F. High Clothing Tools Etc. Wght.\Vol.:	:	<input type="text"/>	<input type="text"/>	Low Clothing Tools Etc. Wght.\
8G. High Total Weight not in Drums	:	<input type="text"/>	<input type="text"/>	Low Total Weight not in Drums

SYSTEM Created:01-11-1988 By:ENWS Updated:11-25-1988 By:ENWS

--- End of Update Request ---

Queries

SESSIONFND (Records=1, Time=63ms)

SQL =

```
SELECT * From [Internet Sessions]
      WHERE ([Internet Sessions].[Session_FromAddr] = '142.142.106.32') ;
```

SESSIONCHK (Records=1, Time=15ms)

SQL =

```
SELECT User as SEMAIL, ReadOnly From [Internet Sessions]
      WHERE ([Internet Sessions].[Session_FromAddr] = '142.142.106.32') and ( [Interne
```

SESSIONUPD (Records=0, Time=16ms)

SQL =

```
UPDATE DISTINCTROW [Internet Sessions] SET [Internet Sessions].Session_Expire = Now()
      WHERE (([Internet Sessions].Session_FromAddr = '142.142.106.32' ));
```

SITEGET (Records=1, Time=109ms)

SQL =

```
SELECT DISTINCTROW [pcbsite].*, format([pcbsite].[created],'mm-dd-yyyy') as xcreated,
format([pcbsite].[updated],'mm-dd-yyyy') as xupdated,
format([pcbsite].[final],'mm-dd-yyyy') as xfinal,
format([pcbsite].[approvdate],'mm-dd-yyyy') as xapprovdate,
format([pcbsite].[ccreated],'mm-dd-yyyy') as xccreated,
format([pcbsite].[cupdate],'mm-dd-yyyy') as xcupdate,
format([pcbsite].[cfinal],'mm-dd-yyyy') as xcfinal,
format([pcbsite].[survey],'mm-dd-yyyy') as xsurvey,
format([pcbsite].[pcreated],'mm-dd-yyyy') as xpcreated,
format([pcbsite].[pupdate],'mm-dd-yyyy') as xpupdate,
format([pcbsite].[inspdate],'mm-dd-yyyy') as xinspdate,
format([pcbsite].[lettdate],'mm-dd-yyyy') as xlettdate,
format([pcbsite].[respdate],'mm-dd-yyyy') as xrespdate,
format([pcbsite].[orderdate],'mm-dd-yyyy') as xorderdate,
format([pcbsite].[icreated],'mm-dd-yyyy') as xicreated,
[pcbsite].[UserEntered] as xUserEntered,
[pcbsite].[Email] as xemail,
format([pcbsite].[iupdate],'mm-dd-yyyy') as xiupdate
FROM PCbsite
WHERE (sitenumber=
      '30286a006' );
```

Execution Time

Ministry of
The Environment

1182 North Shore Blvd. E.
1st Floor
Burlington ON L7R 3Z9
Telephone: (905) 637-4150
Facsimile: (905) 637-4175

Ministère de
l'Environnement

1182, boul. North Shore E
1 étage
Burlington ON L7R 3Z9
Téléphone: (905) 637-4150
Télécopieur: (905) 637-4175



September 13, 2000

Mr. Siep Nyholt
Imperial Oil
Products and Chemicals
90 Wynford Drive
Don Mills, Ontario
M3C 1K5

SI-HP-A15-MS-630
16 Mississauga Road
FYI + file
AR

Dear Mr. Nyholt:

RE: PCB Storage Site#302-86A-006 - Decommissioning

The Ministry of Environment has received your submissions of August 22, 2000. Based on the information that you have provided, the Ministry will change the status of this site to "historical" from its present status as an "active" site on the Provincial PCB Inventory System. The current inventory will also be changed to reflect that this site is currently empty.

Based on the assumption that all potentially contaminated surfaces were sampled and that the sampling was in fact representative of these surfaces, the Ministry acknowledges that the PCB storage building is not PCB contaminated and as such can be dismantled, sold or re-used for other purposes. This acknowledgment pertains only to the PCB storage building and does not pertain to any possible historic spills to the soil or grounds in the vicinity of the PCB storage site or elsewhere on the company property. If decommissioning of the property is required, it may be undertaken in accordance with the Ministry of Environment's "Guideline for Use at Contaminated Sites in Ontario" June 1996, and revised February 1997. The above statements in no way amount to the Ministry accepting responsibility or liability for future environmental problems that may arise at this site or for the re-use or disposal of the PCB storage building materials or any PCB materials not disclosed in your report. This liability rests with the property occupant(s) and owner(s).

The Ministry's acknowledgment of decommissioning of the PCB storage building is based on submissions by O'Connor Associates. Anyone who does not wish to rely on the findings of the above-noted submissions will have to engage their own consultants to confirm the adequacies of the decommissioning. If, in the future, environmental conditions at the site change or are found to be significantly different from those currently known to the Ministry of Environment, the Ministry reserves the right to re-open site investigations and enforce laws and regulations in effect at that time.

Should you have any questions with regard to the above, please do not hesitate to contact Ms. Anna Salemi at (905) 637-4154

Yours truly,

A handwritten signature in black ink, appearing to read 'John Budz', is written over a horizontal line.

John Budz
Director under Ontario Regulation 362
Halton-Peel District Office
Central Region

c: Mr. Jim Smith, Environment Canada/Attn.: Mrs. N. McGill
Mr. P. Willmott, DEH, Halton Regional Health Unit
Communications Sargeant, Peel Regional Police Deaprtment
Chief Garry W. Morden, Mississauga Fire Department
Mr. T.L. Julian, City Clerk, City of Mississauga

bc: A. Gortva, Data Management & Systems, Environmental Monitoring & Reporting Br.

JB/as

Medium Priority

Task#

8,010,246

Cross Reference:

WH

Please review the attached PCB information from Imperial Oil on their closed PCB site at 10 Mississauga Road. They would like their PCB site deregistered.

Created On: Aug 28, 2000

By: Adcock, Bob

Halton-Peel District (Burlington)

Workplan Program/Activity: Waste - Hazard. & Liq. Ind., General (No related Specific Activity)

Location: Mississauga, City of

Received: Aug 28, 2000

Due Date: Oct 6, 2000

Completed:

Assignments

Assigned	Assigned By	Assigned To	Required Product	Due Date	Completed
Aug 28, 00	Adcock, Bob	Adcock, Bob	assign task	Oct 6, 2000	Aug 28, 2000
Aug 28, 00	Adcock, Bob	Salemi, Anna	review report and deregister site if appropri	Oct 6, 2000	

Keywords

see task # 8010255

Notes

Date	Staff Name	Note
Aug 28, 2000	Adcock, Bob	This is for the old Texco Refinery site

Time

Date	Staff Name	Reg Hours	Other	SubTotal
Aug 28, 2000	Adcock, Bob	0.25	0.00	0.25
		0.25	0.00	0.25



Imperial Oil

Imperial Oil
Products and Chemicals Division
90 Wynford Drive
Don Mills, Ontario
Canada M3C 1K5
Fax: 416-441-7850

J.C. Strasser
Manager

Marketing Engineering Services

ONTARIO MINISTRY
OF THE ENVIRONMENT

AUG 28 2000

CENTRAL REGION
BURLINGTON OFFICE

August 22, 2000

Ontario Ministry of Environment
Environmental Monitoring & Reporting
Halton-Peel District
1182 North Shore Blvd., East
Burlington, Ontario
L7R 3Z9

Attention: Ms. Anna Salemi - Environmental Officer

Re: PCB Site #302-86A006
10 Mississauga Road South, Mississauga, Ontario

Please find attached, a copy of the manifest which effectively represents the removal of the complete inventory of stored PCBs at the subject site for the purpose of disposal at the Swan Hills, Alberta licensed facility.

I would ask that the appropriate steps be taken to "un-register" this site as a PCB storage facility. Should you require any further information, please contact the undersigned at (905) 278-5513.

Yours truly,

Siep Nyholt, CET
Site Remediation Specialist

cc: Mr. John Budz, P.Eng. - MOE (l/att.)



Imperial Oil

Imperial Oil
Products and Chemicals Division
90 Wynford Drive
Don Mills, Ontario
Canada M3C 1K5
Fax: 416-441-7850

J.C. Strasser
Manager

Marketing Engineering Services

ONTARIO MINISTRY
OF THE ENVIRONMENT

AUG 28 2000

CENTRAL REGION
BURLINGTON OFFICE

August 22, 2000

Mr. John Budz, P.Eng.
District Manager
Halton-Peel District
Ministry of the Environment
1182 North Shore Blvd., East
Burlington, Ontario
L7R 3Z9

Dear Mr. Budz,

The following meeting notes, including attachments, are intended to document our June 26, 2000 meeting discussions and mutual understanding between Imperial Oil and the Halton-Peel district office of the MOE. If you disagree with any portion of these notes or have any comments, additions or omissions please notify the undersigned.

Subject: Port Credit (Surplus Site)

Meeting Location: Imperial Oil's offices located at 10 Mississauga Road

Attendees: MOE: John Budz, Gerry Healy
IO: Roger Bywater, Peter Miasek, Siep Nyholt
O'Connor Associates: Ron McKee

Agenda:

This meeting was initiated by Imperial Oil for the purpose of continuing to review progress and obtaining a mutual understanding regarding specific general site management initiatives related to the subject Port Credit (former Texaco refinery) surplus site.

General:

The meeting was divided into two parts. The first dealing with status of various projects and programs as they relate to the management of the site. The second part (in the absence of O'Connor Associates) further discussed and reviewed project and site management issues with the MOE. Attachments are as follows:

.../2

(2)

Attachment I: Meeting Minutes PART I (compiled by O'Connor Associates)

Attachment II: Environmental Regulatory Compliance and Commitment Managing System

Attachment III: Port Credit Marketing Area - Closure Status / Plan (DRAFT)

Yours truly,

A handwritten signature in black ink, appearing to read 'Siep Nyholt', with a long horizontal stroke extending to the right.

Siep Nyholt
Site Remediation Specialist

cc: G. Healy, MOE
R. McKee, OAEI
R. Bywater, IOL, Devon Estates
P. Miasek, IOL

y:\Moepc00.doc

9 August 2000

10-2936.11,11

**ATTACHMENT 1
MEETING NOTES - PART 1**

DATE: 26 June 2000

LOCATION: Imperial Oil Limited
10 Mississauga Road South
Mississauga, Ontario

RE: Former Texaco Refinery
PORT CREDIT, ONTARIO

ATTENDING:

John Budz	Ontario Ministry of the Environment (MOE)
Gerry Healy	MOE
Roger Bywater	Devon Estates
Peter Miasek	Imperial Oil (IOL)
Siep Nyholt	IOL
Ron McKee	O'Connor Associates Environmental Inc. (OAEI)

TOPICS DISCUSSED

1. Siep presented the attached updated table entitled *Environmental Regulatory Compliance and Commitment Managing System*, outlining IOL's system of managing regulatory issues for the Port Credit site. Siep stated that the table is updated regularly. John recommended that IOL send him a letter confirming the PCB removal plans because an MOE inspection will be carried out this summer.

2. Ron presented the following notes concerning the site activities undertaken over the past year:

70 Wesley Avenue

- Groundwater monitoring at all onsite wells, and sampling of selected wells for VOCs, were carried out on two occasions (June and September 1999).
- A remedial excavation was undertaken in October and December 1999. Approximately 4000 m³ of VOC-impacted material was placed on the adjacent IOL Red Lands pending final

disposition.

- The remedial excavation removed impacted overburden soils, some bedrock on the south side of the property, and entrained groundwater.
- During the excavation, the previously installed monitoring wells and caisson wall were removed.
- The cleanup criteria were those presented under the "MOE Suite of 43" but using MOE Table B for the chlorinated aliphatic hydrocarbons of concern (which are not addressed in the Suite of 43).
- The excavation was backfilled with surplus soils derived from the nearby Green Lands.
- A draft report has been submitted to the MOE.

92 to 96 Park Street

- The overburden pumping well located in the dewatering trench continued to operate until December 1999.
- Groundwater monitoring of all onsite wells, and sampling of selected wells, were carried out on two occasions (June and September 1999).
- A remedial excavation was undertaken in December 1999 and January 2000. The remedial excavation included the removal of impacted overburden, and some bedrock material at the north side of the property.
- The excavated material was placed on the adjacent Red Lands pending final disposition.
- The cleanup criteria for the overburden were the same as those used for 70 Wesley Avenue.
- The excavation was backfilled with surplus soil derived from the Green Lands.

90 Park Street

- Groundwater monitoring of all onsite wells and sampling of selected wells were carried out on four occasions (June, September, December 1999 and March 2000).
- A remedial excavation was undertaken in May 2000. The excavation removed overburden soils and entrained groundwater and extended to the bedrock surface.

- The cleanup criteria were the same as those used for 70 Wesley Avenue.
- The excavated material was placed on the adjacent Red Lands pending final disposition.
- The excavation was backfilled with granular material derived from a commercial pit (Dufferin Aggregates).

Orange & Green Lands

- One pumping well (in the bedrock cut-off trench) continued to operate on the Orange Lands.
- Three bedrock pumping wells continued to operate on the Green Lands.
- The groundwater treatment plant continued to operate.
- Groundwater monitoring and sampling were carried out on four occasions (June, September, December 1999 and March 2000).
- Groundwater capture and chemistry were tracked after each monitoring event.
- An investigation of the "Orange Lands Wedge" was undertaken in March 2000. Three test trenches were excavated across the width of the Wedge. Soil from the excavation walls and floors was sampled. The excavation was backfilled with the spoil.

Section 17 Area

- A remedial excavation was undertaken in August 1999. Approximately 1200 m³ of impacted bedrock material was removed from the site. The material was placed on the IOL South Property.
- The cleanup criteria were those under the Suite of 43.
- The excavation was backfilled with surplus soil derived from the Green Lands.
- A report, dated 30 November 1999, was submitted to IOL for review.

South Property

- Groundwater monitoring and sampling of selected wells and the shale pit effluent were carried out on four occasions (June, September and December 1999, and March 2000).

- The overburden pumping wells located in the cutoff trenches continued to operate.
3. Ron then presented the following notes concerning the learnings from the work undertaken over the past year:

92 to 96 Park Street

- Upon completion of the remedial excavation, the encountered overburden soil conditions onsite complied with the MOE Table B residential cleanup criteria for the project specific compounds. However, concentrations of some VOCs recovered from the final bedrock floor did not comply with the Table B criteria.

Orange & Green Lands

- The volume of water handled by the pump-and-treat plant was generally similar to previous years.
- The plant effluent quality continually met the Sanitary Sewer Use By-law.
- Groundwater flow cutoff continued to be achieved at the Orange / Green Lands boundary, as a result of the Orange Lands trench and continual operation of the pumping wells.
- There was no evident spreading of dissolved contaminants.
- Average dissolved VOC concentrations did not change significantly over the past year.
- Trace petroleum odours were detected in soils during the Orange Lands Wedge investigation. Concentrations of 1-methylnaphthalene in soil recovered near and at the 93 Park property line did not conform to the Suite of 43 residential criterion. The highest concentration of 1-methylnaphthalene was <1 ppm; the MOE Table B residential criterion for methylnaphthalenes is 280 ppm.

Section 17 Area

- Upon completion of the remedial excavation, the encountered rock conditions onsite complied with the MOE cleanup criteria for aesthetics (no hydrocarbon sheens or strong petroleum odours) and chemical parameters (the Suite of 43).

South Property Area

- The volume of water handled by the pump-and-treat plant increased over the past year.
 - The plant effluent quality continually met the Sanitary Sewer Use By-law.
 - The shale pit effluent quality continually met the site-specific TSS criterion.
 - Dissolved BTEX concentrations did not change significantly over the past year.
 - The onsite benzene plume remains captured within the perimeter containment system.
4. Siep presented the attached Closure Status / Plan with respect to completion of remediation of the Marketing Area.
5. In response to John's questions, IOL personnel confirmed the following:
- All monitoring wells remaining on the Wesley and Park Street properties and on the Red Lands will be decommissioned this summer in accordance with Ontario Regulation 903 and this work will be documented in the site closure reports.
 - The City of Mississauga will be advised regarding the use of Table B remediation criteria.
 - Soil quinolines concentrations will be disregarded because this parameter was not transferred from the Suite of 43 to Table B.
 - Test pits will be conducted on the Orange Lands Wedge, 92-94 Park Street, and south end of 70 Wesley Avenue to confirm the soils meet the aesthetic and inorganic criteria under the original site cleanup objectives for residential land use. Gerry will be invited to direct and observe the test pitting operation.
 - Formal MOE acknowledgement is not required for the cleanup on 90 Park Street.
 - A site-specific risk assessment would follow the approach referenced under the 1989 MOE guideline.
6. Roger noted that the City of Mississauga wants to proceed with development of the Waterfront Trail on the South Property, under a forthcoming licensing agreement with IOL, and has hired O'Connor Associates to manage the environmental issues.

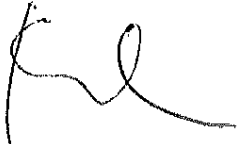
Imperial Oil Limited
9 August 2000
Page 6

10-2936.11,11

We trust that the foregoing adequately represents the topics of discussion. If you have any questions or concerns, please do not hesitate to contact the undersigned.

Notes prepared by:

O'CONNOR ASSOCIATES ENVIRONMENTAL INC.



Ron McKee, P.Eng.

:clc

Distribution: (6) Siep Nyholt (w/o attachments)

W:\2000-999\2936\293611\293611110.109.wpd



Environmental Regulatory Compliance & Commitment Managing System

Site: Port Credit (as of 06/22/00)

BY: S.J. Nyholt

Permit or Regulation	Responsibility	Reporting Requirements	Due Date	Required Data	File Location (includes procedures)	Date Submitted	Notes: Revision Date:
Site No.302-86A006 PCB Storage	SJN	Annual MOEE	Jan.31	confirmation of monthly inspections	P.C. NB103F	Jan.25/00 (last)	Monthly inspections documented MOE inspection Jun.10/98' Disposal pending (Q4/00)
PTTW 94-P-3017 S.P. P&T take water	SJN	Changes or Exceedances (exception based) MOEE	Changes within 30 days, exceedances forthwith	daily volumes >50m³	P.C. NB119F	N/A	Expires 3/31/04
Peel 90-90 & 96' site specific criteria S.P. P&T	SJN	volumes - quarterly quality - semi annual. (data on file) Region of Peel	vol. - 15th of month following each qtrr. qual. - May & Nov.	Meter readings (qual. data on file)	P.C. NB119F	Oct.14/99 (last)	Expires 01/01/2001 (new) (apply by Nov.1/2000)
Peel 90-90 & 96' site specific criteria Mktg. Area P&T	SJN	volumes - quarterly quality - semi annual. (data on file) Region of Peel	vol. - 15th of month following each qtrr. qual. - May & Nov.	Meter readings (qual. data on file)	P.C. NA276F P&T S.P. -96'	Jan.8/99 (last)	No expiry
PTTW 92-P-3030 Take water from Lake Ontario	SJN	Changes or Exceedances (exceptn. based) MOEE	Changes within 30 days, exceed. forthwith	daily volumes	P.C. NA288F	N/A	Expires 3/31/02
Registration ON1315723 Subject Waste Generator Reg.	SJN	As and when waste generated (manifest) MOEE	per event	as required on Manifest	P.C. NA 288F	Date of reg. 2/3/92	
"Effluent Quality Objectives for Petroleum Refineries" Shale Pit - Effluent	SJN	Per 6/3/96 spec rpt. exceedances forthwith, MOEE	Qrtly. (internal, on file)	spec. re: 6/3/96 MOEE ltr.	P.C.	Held on file	Q1/00 TSS meets criteria
OTHER							
Mktg. Area P&T performance	SJN	Exception/ progress mtg. basis MOEE	Qrtly. (on file)	quality/status	P.C.		
South Property perimeter monitoring	SJN	Exception/ progress mtg. basis MOEE	Qrtly. (on file)	quality/status	P.C.		
Abnormal discharge to air, water or ground	SJN	Potential for adverse impact to be rpt'd forthwith, MOEE	Forthwith	analytical results, cause & effect (where applicable)	P.C.	n/a	exception based, e.g. equip. leaks, excavation discoveries etc.

pccompli.doc

Port Credit Marketing Area - Closure Status / Plan
(includes off-site)
DRAFT – For Discussion (06/26/00)

Area	Criteria	Status	Comments
Red Lands	1) MOE 43 2) Site Specific Chlorinates	- Complete - Rpt. Pending	MOE stmt. of completion upon successful completion Report will include MOE 43 and site specific chlorinates and be combined with Orange Lands rpt)
Orange Lands	1) MOE 43 2) Site Specific Chlorinates	- Overburden verification pending - P&T / monitoring	MOE stmt. of completion upon successful completion Risk Assessment, scope to be reviewed
70 Wesley Ave.	Site Specific Chlorinates	DRAFT report issued to MOE	MOE stmt. of completion upon successful completion (limited to site specific chlorinates)
90 Park St.	Site Specific Chlorinates	Field work complete Final rpt. pending	Report to be issued to home owner (MOE cc'd
92-96 Park St.	Site Specific Chlorinates	Overburden remediation complete	Bedrock chlorinates to be part of Orange Lands RA
93 Park St.	1) MOE 43 2) Site Specific Chlorinates	Overburden verification pending	Revision of 1 mn criteria ('97 Table B) No action re: chlorinates



Record of Verbal Transaction

West Central Region

File No.

From		To
Name	Alisha Chauhan	
Organization		
Address		

Siep Nyholt.

Imperial Oil/Esso

10 Mississauga Rd. South.

Tel No.
(905) 278 5513.

☐ Incoming Call

☒ Outgoing Call

☐ In person

Time
10 am

Date
Aug 22, 2000

Re: PCB site

Imperial Oil/Esso is now PCB-free, ~~and will~~
Siep Nyholt will send a letter ^{that} stating ~~that~~ the PCBs have
been removed and the site can be deregistered.

Name

Signature

Ministry of
The Environment

1182 North Shore Blvd. E.
1st Floor
Burlington ON L7R 3Z9
Telephone: (905) 637-4150
Facsimile: (905) 637-4175

Ministère de
l'Environnement

1182, boul. North Shore E
1 étage
Burlington ON L7R 3Z9
Téléphone: (905) 637-4150
Télécopieur: (905) 637-4175



February 4, 2000

Imperial Oil
Products and Chemicals Division
10 Mississauga Road South
Mississauga, Ontario
L5H 4M6

Attention: Siep Nyholt

Dear Mr. Nyholt:

Re: PCB Inventory Update for Site #302-86A-006
Our File SI-HP-MS-MI-630

This is to confirm the receipt of your letter dated January 25, 2000. We have updated your inventory for PCB Site #302-86A-006 to reflect the inventory form attached to your letter.

The update has been completed in our records. Should you have any further questions regarding this matter, please call contact Anna Salemi at (905) 637-4154.

Yours truly,

Anna Salemi
Environmental Officer
Halton-Peel District

AS/as

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Site Information Survey

☒ Branch to Inspection ☐ Branch to Company ☐ Branch to Menu

Update PCB Record

Start Over

PCB Site 30286A006 Changed:[1999-02-25 09:26:37] By User:[SALEMIAN] (Current User:sale
NOTE: All dates are in mm-dd-yyyy format!

Site Number : 30286A006 Cross Reference: Generator: ON131572
Region : 03 District: 302 County: PEEL Municipality: Mississauga
Site Desc. : ?? Industry Sector: ?
Major Site : N Sensitive: N Site Stat: A Archived Site: N Indoor: ? Fenced: ? E
Site Owner : ESSO PETROLEUM CANADA PCB Site Owner
Address1 : 10 Mississauga ROAD SOUTH
Address2 :
City : MISSISSAUGA Province: ONT Postal Code: L5G4M6
Contact : SIEP NYHOLT Area Code: 905 Phone: 2785513 Exten
Approval Date : 01-01-1988 Approved: Y Final Closing: To be Deleted: N
Comment1 : ESSO BOUGHT FACILITIES FROM TEXACO
Comment2 :
PCB Inventory : Y CE Reg. Inv: Y Dillon Inv: Y Major/Minor: MN
PCB Owner : PCB Inventory Owner
Address 1 : ESSO PETROLEUM CANADA
Address 2 : 1210 SHEPPARD AVENUE EAST
City : WILLOWDALE Province: ONT Postal Code: M2K 2S8
Contact : Area Code: Phone: Exten
Final Closing : Company Status : C Historical: N
SYSTEM Created Site Owner: 01-11-1988 By: ENWS Updated: 10-30-1991 By: ENCRDA
SYSTEM Created PCB Owner : 01-11-1988 By: ENWS Updated: 10-30-1991 By: ENCRDA

PCB Survey

Survey Date : 01-25-2000 Pcb Status: E Archive PCB y/n: N
High Levels (over 10,000)
7A. High Bulk Liquid : ☐ Low Bulk Liquid
7B. High Transformers Count : ☐ Low Transformers Count
7B. High Total Weight in Transformers : ☐ Low Total Weight in Transfo
7C. High Total Liquid in Transformers : ☐ Low Total Liquid in Transfo
8A. High Drums of Ballasts Count : 3.0 ☐
8A. High Total Weight of Ballasts : ☐
8B. High Other Capacitors Count : 49.0 ☐

8BC. High Other Capacitors Weight	:	<input type="text" value="2.0"/>	<input type="checkbox"/>	
8D. High Drums - Soil\Gravel Count	:	<input type="text"/>	<input type="checkbox"/>	Low Drums - Soil\Gravel Cou
8D. High Drums - Soil\Gravel Weight	:	<input type="text"/>	<input type="checkbox"/>	Low Drums - Soil\Gravel Wei
8E. High Total Weight not in Drums	:	<input type="text"/>	<input type="checkbox"/>	Low Total Weight not in Dru
8F. High Clothing Tools Etc. Count	:	<input type="text"/>	<input type="checkbox"/>	Low Clothing Tools Etc. Cou
8F. High Clothing Tools Etc. Wght.\Vol.:	:	<input type="text" value="1.0"/>	<input type="checkbox"/>	Low Clothing Tools Etc. Wgh
8G. High Total Weight not in Drums	:	<input type="text" value="22.0"/>	<input type="checkbox"/>	Low Total Weight not in Dru

SYSTEM Created:01-11-1988 By:ENWS Updated:11-25-1988 By:ENWS

--- End of Update Request ---

Queries

SESSIONFND (Records=1, Time=62ms)

SQL =

```
SELECT * From [Internet Sessions]
WHERE ([Internet Sessions].[Session_FromAddr] = '142.142.106.23') ;
```

SESSIONCHK (Records=1, Time=31ms)

SQL =

```
SELECT User as SEMAIL, ReadOnly From [Internet Sessions]
WHERE ([Internet Sessions].[Session_FromAddr] = '142.142.106.23') and ( [Inter
```

SESSIONUPD (Records=0, Time=16ms)

SQL =

```
UPDATE DISTINCTROW [Internet Sessions] SET [Internet Sessions].Session_Expire = Now
WHERE (([Internet Sessions].Session_FromAddr = '142.142.106.23' ));
```

SITEGET (Records=1, Time=125ms)

SQL =

```
SELECT DISTINCTROW [pcbsite].*, format([pcbsite].[created],'mm-dd-yyyy') as xcreated,
format([pcbsite].[updated],'mm-dd-yyyy') as xupdated,
format([pcbsite].[final],'mm-dd-yyyy') as xfinal,
format([pcbsite].[approvdate],'mm-dd-yyyy') as xapprovdate,
format([pcbsite].[ccreated],'mm-dd-yyyy') as xccreated,
format([pcbsite].[cupdate],'mm-dd-yyyy') as xcupdate,
format([pcbsite].[cfinal],'mm-dd-yyyy') as xcfinal,
format([pcbsite].[survey],'mm-dd-yyyy') as xsurvey,
format([pcbsite].[pcreated],'mm-dd-yyyy') as xpccreated,
format([pcbsite].[pupdate],'mm-dd-yyyy') as xpupdate,
format([pcbsite].[inspdate],'mm-dd-yyyy') as xinspdate,
format([pcbsite].[lettdate],'mm-dd-yyyy') as xlettdate,
format([pcbsite].[respdate],'mm-dd-yyyy') as xrespdate,
format([pcbsite].[orderdate],'mm-dd-yyyy') as xorderdate,
format([pcbsite].[icreated],'mm-dd-yyyy') as xicreated,
[pcbsite].[UserEntered] as xUserEntered,
[pcbsite].[Email] as xemail,
format([pcbsite].[iupdate],'mm-dd-yyyy') as xiupdate
FROM PCBSITE
WHERE (sitenumber=
'30286a006' );
```

Execution Time

Medium Priority

Task#

8,008,129

Cross Reference:

SU

Please review the attached annual status report and update the PCB inventory.
Company is Imperial Oil.

Created On: Jan 28, 2000

By: Adcock, Bob

Halton-Peel District (Burlington)

Workplan Program/Activity: Support, Records Management

Location: Mississauga, City of

Received: Jan 28, 2000

Due Date: Feb 29, 2000

Completed:

Assignments

Assigned	Assigned By	Assigned To	Required Product	Due Date	Completed
Jan 28, 00	Adcock, Bob	Adcock, Bob	assign task	Feb 29, 2000	
Jan 28, 00	Adcock, Bob	Salemi, Anna	update PCB inventory	Feb 29, 2000	

Keywords

Notes

Time

Date	Staff Name	Reg Hours	Other	SubTotal
Jan 28, 2000	Adcock, Bob	0.25	0.00	0.25
		0.25	0.00	0.25

**Imperial Oil**

Imperial Oil Limited
10 Mississauga Road South
Mississauga, Ontario
L5H 4M6

S. J. Nyholt, CET
Site Remediation Specialist
Engineering Services
Marketing

Tel: (905) 278-5513
Fax: (905) 278-2568

Facsimile Transmission Cover Sheet

Date: January 26, 2000

To

Name: Mr. John Ross
Company: MOE
City:
Telephone:
Fax: 1-905-637-4175

From

Siep Nyholt
Imperial Oil
Mississauga
905-278-5513
905-278-2568

Number of pages sent including this one: 3

Message:

John,

Consistent with Reg.362, please find attached.

Regards,

NOTICE: If you have received this facsimile in error, any personal use, copying or dissemination of its contents is prohibited. Please notify the sender immediately by telephone at the number indicated on this page to arrange return of the facsimile to the sender.
Thank you for your co-operation.

**Imperial Oil**

Imperial Oil
Products and Chemicals Division
10 Mississauga Road S.
Mississauga, Ontario
Canada L5H 4M6

J.C. Strasser
Manager
Marketing Services

Engineering Services

Marketing Department

January 25, 2000

Ministry of the Environment
1182 North Shore Blvd., East
Burlington, Ontario
L7R 3Z9

*Look to Anne
- PCB migration
update*

Attention: Mr. John Ross, Environmental Officer

Re: Annual Status Report
PCB Storage - Site No. 302-86A006
10 Mississauga Rd. South

Dear Sir:

Pursuant to Director's Instructions under Ontario Regulation 362, as they relate to the subject site, we would hereby submit attached report. Condition No. 7 of Director's Instructions, indicates an annual report must be prepared, confirming inspections have been conducted and site problems identified and corrective action taken.

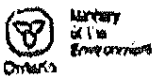
We would confirm at this time that the terms and conditions, as defined under Condition No. 7, have been met during the past twelve months. At this time I would add that as part of an Ontario-wide initiative, it is Imperial Oil's intention to dispose of all stored PCB wastes, including those stored at the subject site.

We trust that this report meets with your satisfaction. In the event you have any questions or comments, please contact me at 905-278-5513.

Yours truly,

Siep Nyholt, CET
Project Coordinator

pcpcb2000.doc



PCB Inventory

Instructions are on the reverse of this form.

Waste Disposal Site Information

1. PCB Site Identification
 PCB site no. 13012 1816 1A01016 **WASTE CLASS 243 D**

2. PCB Holder (includes owner, possessor or anyone who has care or control of PCB wastes)
 Name of company holding PCB ESSO PETROLEUM CANADA (IMPERIAL OIL LIMITED)
 Contact person SIEP NYHOLT Signature [Signature]
 Tel. no. (905) 278-5513

3. PCB Site Location
 Street name 10 MISSISSAUGA RD. S.
 Town/City/Municipality name MISSISSAUGA, ONTARIO
 County/Regional Municipality PEEL Postal code L5H 4M6

4. Corporate Name And Address Of Holder (if different from 3. above)
 Name of company IMPERIAL OIL
 Mailing address 111 ST. CLAIR AVE. WEST
TORONTO, ONTARIO Postal code M5W 1K3

5. The Generator Registration Number associated with this PCB waste storage site must be entered here.

▶▶ 0 N 0 0 0 5 2 0 1

Waste Quantities And Types

6. Date Survey Completed JANUARY 25, 2000

7. Liquids

	High Level (over 10000 ppm)	Low Level (50 - 10000 ppm)
a. bulk liquid	Litres	Litres
b. transformers	No. of transformers	No. of transformers
c. total liquid in transformers	Litres	Litres

8. Solids

	No. of drums	No. of drums
a. ballasts	3	
b. other capacitors	No. of capacitors	
c. total weight other capacitors / large cap. / other equipment	Kg.	
d. soil and gravel	No. of drums	No. of drums
e. total weight not in drums	Kg.	Kg.
f. clothing, tools, equipment, etc.	No. of drums	No. of drums
g. total equipment drums	Kg.	Kg.

Handwritten notes: 49 / 16 DRUMS, 2 DRUMS, BUSHINGS, 1 Drum, 22 DRUMS

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Site Information Survey

☒ Branch to Inspection ☐ Branch to Company ☐ Branch to Menu

Update PCB Record

Start Over

PCB Site 30286A006 Changed:[1998-02-02 14:25:13] By User:[rossjo4] (Current User:SALEMIA
NOTE: All dates are in mm-dd-yyyy format!

Site Number : 30286A006 Cross Reference: Generator: ON131572
Region : 03 District: 302 County: PEEI Municipality: Mississauga
Site Desc. : ?? Industry Sector: ?
Major Site : N Sensitive: N Site Stat: A Archived Site: N Indoor: ? Fenced: ? E
Site Owner : ESSO PETROLEUM CANADA PCB Site Owner
Address1 : 10 Mississauga ROAD SOUTH
Address2 :
City : MISSISSAUGA Province: ONT Postal Code: L5G4M6
Contact : SIEP NYHOLT Area Code: 905 Phone: 2785513 Exten
Approval Date : 01-01-1988 Approved: Y Final Closing: To be Deleted: N
Comment1 : ESSO BOUGHT FACILITIES FROM TEXACO
Comment2 :
PCB Inventory : Y CE Reg. Inv: Y Dillon Inv: Y Major/Minor: MN
PCB Owner : PCB Inventory Owner
Address 1 : ESSO PETROLEUM CANADA
Address 2 : 1210 SHEPPARD AVENUE EAST
City : WILLOWDALE Province: ONT Postal Code: M2K 2S8
Contact : Area Code: Phone: Exten
Final Closing : Company Status : C Historical: N
SYSTEM Created Site Owner: 01-11-1988 By: ENWS Updated: 10-30-1991 By: ENCRDA
SYSTEM Created PCB Owner : 01-11-1988 By: ENWS Updated: 10-30-1991 By: ENCRDA

PCB Survey

Survey Date : 01-07-1999 Pcb Status: E Archive PCB y/n: N

High Levels (over 10,000)

7A. High Bulk Liquid	: <input type="text"/>	<input type="checkbox"/>	Low Bulk Liquid
7B. High Transformers Count	: <input type="text"/>	<input type="checkbox"/>	Low Transformers Count
7B. High Total Weight in Transformers	: <input type="text"/>	<input type="checkbox"/>	Low Total Weight in Transfo
7C. High Total Liquid in Transformers	: <input type="text"/>	<input type="checkbox"/>	Low Total Liquid in Transfo
8A. High Drums of Ballasts Count	: <input type="text"/> 3.0	<input type="checkbox"/>	
8A. High Total Weight of Ballasts	: <input type="text"/>	<input type="checkbox"/>	
8B. High Other Capacitors Count	: <input type="text"/> 49.0	<input type="checkbox"/>	

8BC. High Other Capacitors Weight	:	<input type="text" value="2.0"/>	<input type="checkbox"/>	
8D. High Drums - Soil\Gravel Count	:	<input type="text"/>	<input type="checkbox"/>	Low Drums - Soil\Gravel Cou
8D. High Drums - Soil\Gravel Weight	:	<input type="text"/>	<input type="checkbox"/>	Low Drums - Soil\Gravel Wei
8E. High Total Weight not in Drums	:	<input type="text"/>	<input type="checkbox"/>	Low Total Weight not in Dru
8F. High Clothing Tools Etc. Count	:	<input type="text"/>	<input type="checkbox"/>	Low Clothing Tools Etc. Cou
8F. High Clothing Tools Etc. Wght.\Vol.	:	<input type="text" value="1.0"/>	<input type="checkbox"/>	Low Clothing Tools Etc. Wgh
8G. High Total Weight not in Drums	:	<input type="text"/>	<input type="checkbox"/>	Low Total Weight not in Dru

SYSTEM Created:01-11-1988 By:ENWS Updated:11-25-1988 By:ENWS

--- End of Update Request ---

Queries

SESSIONFND (Records=1, Time=0ms)

SQL =

```
SELECT * From [Internet Sessions]
WHERE ([Internet Sessions].[Session_FromAddr] = '142.142.106.31') ;
```

SESSIONCHK (Records=0, Time=15ms)

SQL =

```
SELECT User as SEMAIL, ReadOnly From [Internet Sessions]
WHERE ([Internet Sessions].[Session_FromAddr] = '142.142.106.31') and ( [Inter
```

LOOKUPIP (Records=1, Time=16ms)

SQL =

```
SELECT Email, [short email] AS SEMAIL, ReadOnly FROM [Valid Email Addresses]
WHERE (Password = 'northsho' and [password changed] >= (date() - 60
```

SESSIONUPD (Records=0, Time=16ms)

SQL =

```
UPDATE DISTINCTROW [Internet Sessions] SET [Internet Sessions].Session_Expire = Now
WHERE ((([Internet Sessions].Session_FromAddr = '142.142.
```

SITEGET (Records=1, Time=109ms)

SQL =

```
SELECT DISTINCTROW [pcbsite].*, format([pcbsite].[created],'mm-dd-yyyy') as xcreated,
format([pcbsite].[updated],'mm-dd-yyyy') as xupdated,
format([pcbsite].[final],'mm-dd-yyyy') as xfinal,
format([pcbsite].[approvdate],'mm-dd-yyyy') as xapprovdate,
format([pcbsite].[ocreated],'mm-dd-yyyy') as xccreated,
format([pcbsite].[cupdate],'mm-dd-yyyy') as xcupdate,
format([pcbsite].[ofinal],'mm-dd-yyyy') as xcfinal,
format([pcbsite].[survey],'mm-dd-yyyy') as xsurvey,
format([pcbsite].[pcreated],'mm-dd-yyyy') as xpcreated,
format([pcbsite].[pupdate],'mm-dd-yyyy') as xpupdate,
format([pcbsite].[inspdate],'mm-dd-yyyy') as xinspdate,
format([pcbsite].[lettdate],'mm-dd-yyyy') as xlettdate,
format([pcbsite].[respdate],'mm-dd-yyyy') as xrespdate,
format([pcbsite].[orderdate],'mm-dd-yyyy') as xorderdate,
format([pcbsite].[icreated],'mm-dd-yyyy') as xicreated,
[pcbsite].[UserEntered] as xUserEntered,
[pcbsite].[Email] as xemail,
format([pcbsite].[iupdate],'mm-dd-yyyy') as xiupdate
FROM PCbsite
WHERE (sitenumbe=
'30286A006' );
```


Task Definition and Assignments

Task# 5338

Cross Reference: WH

Task Key: 8005338

PCB Inventory Update - Site #302-86A-006 - Imperial Oil, 10 Mississauga Road
South, Mississauga

General Task

Created On: Feb 25, 99 By: Salemi, Anna

Office: Halton-Peel District
(Burlington)

Workplan Program/Activity: Waste - Hazard. & Liq. Ind., Approvals - PCB Reg. 362

Task Location: Mississauga, City of

Received: Feb 25, 99

Due Date: Mar 25, 99

Medium Priority

Completed:

Assigned	Assigned By	Assigned To	Required Product	Due Date	Completed
Feb 25, 99	Salemi, Anna	Salemi, Anna	Update on Inventory Database	Mar 25, 99	

Keywords:

Notes:

Time:

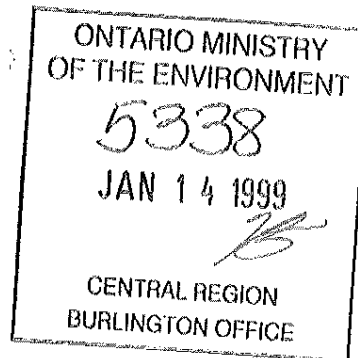


Imperial Oil

Imperial Oil
Products and Chemicals Division
10 Mississauga Road S.
Mississauga, Ontario
Canada L5H 4M6

R.S. Hall
Manager
Marketing Services
Engineering Services

Marketing Department



January 7, 1999

Ministry of the Environment
1182 North Shore Blvd., East
Burlington, Ontario
L7R 3Z9

Attention: Mr. John Ross, Environmental Officer

Re: Annual Status Report
PCB Storage - Site No. 302-86A006
10 Mississauga Rd. South

*Toalaf
rob*

Dear Sir:

Pursuant to Director's Instructions under Ontario Regulation 362, as they relate to the subject site, we would hereby submit attached report. Condition No. 7 of Director's Instructions, indicates an annual report must be prepared, confirming inspections have been conducted and site problems identified and corrective action taken.

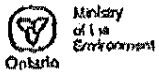
We would confirm at this time that the terms and conditions, as defined under Condition No. 7, have been met during the past twelve months.

We trust that this report meets with your satisfaction. In the event you have any questions or comments, please contact me at 905-278-5513.

Yours truly,

Siep Nyholt
Project Coordinator

pcpcb99.doc



PCB Inventory

Instructions are on the reverse of this form.

Waste Disposal Site Information	1. PCB Site Identification	
	PCB site no. 13101218161A1010161	WASTE CLASS 243 D
	2. PCB Holder (includes owner, possessor or anyone who has care or control of PCB wastes)	
	Name of company holding PCB ESSO PETROLEUM CANADA (IMPERIAL OIL LIMITED) Contact person SIEP NYHDT Signature Tel. no. (905) 278-5513	
	3. PCB Site Location	
	Street name 10 MISSISSAUGA RD. S.	
	Township/Municipality name MISSISSAUGA, ONTARIO	
	County/Regional Municipality PEEL	Postal code L5H 4M6
	4. Corporate Name And Address Of Holder (if different from 3. above)	
	Name of company IMPERIAL OIL	
	Mailing address 111 ST. CLAIR AVE. WEST TORONTO, ONTARIO	
	Postal code M5W 1K3	

5. The Generator Registration Number associated with this PCB waste storage site must be entered here.

▶▶ 0 N 0 0 0 5 2 0 1

Waste Quantities And Types	6. Date Survey Completed		JAN. 7 19 99	
	7. Liquids			
		High Level (over 10000 ppm)	Low Level (50 - 10000 ppm)	
	a. bulk liquid	Litres	Litres	
	b. transformers	No. of transformers	No. of transformers	
	c. total liquid in transformers	Litres	Litres	
	8. Solids			
	Capacitors	a. ballasts	No. of drums	3 DRUMS
		b. other capacitors	No. of capacitors	49 - (16 DRUMS)
		c. total weight other capacitors / large cap. / other equipment	Kg	2 DRUMS
Soil/Gravel	d. soil and gravel	No. of drums		
	e. total weight not in drums	Kg		
Other Solids	f. clothing, tools, equipment, etc.	No. of drums	1 DRUM	
	g. total weight not in drums	Kg		
		TOTAL NO. OF DRUMS = 22		

Ministry of
Environment
and Energy

Ministère de
l'Environnement
et de l'Énergie



1182 North Shore Blvd. E.
1st Floor
Burlington ON L7R 3Z9
Tel. (905) 637-4150
Fax (905) 637-4175

1182, boul. North Shore E
8 étage
Burlington ON L7R 3Z9
Tel. (905) 637-4150
Fax (905) 647-4175

June 18, 1998

Imperial Oil
10 Mississauga Road South,
Mississauga, Ontario
L5G 4M6

Attention: Mr. Siep Nyholt

Dear Sir:

Re: Imperial Oil
PCB Waste Storage Site
302-86A-006

Thank you for assisting with my inspection of the above mentioned PCB storage site on June 10, 1998.

Enclosed is the PCB Inspection Report concerning the inspection.

Should you have any questions, please contact me at (905) 637-4164.

Yours truly,

John E. Ross
Senior Environmental Officer

**M.O.E.
COMPLIANCE INSPECTION REPORT - PCB**

DISTRICT: Halton-Peel

REGION: Central

COMPANY/MUNICIPALITY: Imperial Oil / Mississauga

SITE ADDRESS: 10 Mississauga Road South., Mississauga ON, L5G 4M6

CONTACT NAME: Siep Nyholt

CONTACT TELEPHONE: 905 278-5513 **FAX:** 905 278-2568

INSPECTION DATE: June 10, 1998

DATE OF LAST INSPECTION: Jan 11, 1996

MOE SITE NUMBER: 302-86A-006

GENERATOR REGISTRATION NUMBER: ON1315723

SITE DESCRIPTION:

- The storage consist of a locked international shipping container.

1.0 SITE SECURITY

- The shipping container is locked and the site is fenced with a locked gate.

2.0 COMPATIBILITY OF MATERIALS STORED

- Only PCB waste is stored in the shipping container.

3.0 INTEGRITY OF PRIMARY CONTAINER

- The primary containers are twenty two 45 gallon metal drums. The inspection revealed no apparent leakage.

4.0 INTEGRITY OF SECONDARY CONTAINER

- The secondary container is a single metal international shipping container with a metal lined drip tray. It appears in good shape.

5.0 LABELLING

- The labelling is satisfactory.

6.0 ADEQUACY OF INSPECTION PROCEDURES

- Monthly inspections are being performed and records are being maintained.

7.0 REVIEW OF ORIS, MANDATORY AND VOLUNTARY ABATEMENT REQUIREMENTS

- No outstanding requirements from the previous inspection report.

8.0 SUMMARY OF FINDINGS:

Pass: X Fail:

9.0 ACTION REQUIRED

- None.

10.0 OTHER COMMENTS AND RECOMMENDATIONS

- None.

OCCURRENCE REPORT #: N/A

INSPECTOR SIGN OFF: 

REPORT DATE:: June 17, 1998

DISTRICT SUPERVISOR SIGN OFF: 

Copy sent to COMPANY

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

Ministry of
Environment
and Energy

Ministère de
l'Environnement
et de l'Énergie



1182 North Shore Blvd. E.
1st Floor
Burlington ON L7R 3Z9
Tel. (905) 637-4150
Fax (905) 637-4175

1182, boul. North Shore E
8 étage
Burlington ON L7R 3Z9
Tel. (905) 637-4150
Fax (905) 647-4175

June 18, 1998

Imperial Oil
10 Mississauga Road South,
Mississauga, Ontario
L5G 4M6

Attention: Mr. Siep Nyholt

Dear Sir:

Re: Imperial Oil
PCB Waste Storage Site
302-86A-006

Thank you for assisting with my inspection of the above mentioned PCB storage site on June 10, 1998.

Enclosed is the PCB Inspection Report concerning the inspection.

Should you have any questions, please contact me at (905) 637-4164.

Yours truly,

A handwritten signature in black ink, appearing to read "John E. Ross".

John E. Ross
Senior Environmental Officer



ONTARIO MINISTRY
OF THE ENVIRONMENT

OCT 31 1991

CENTRAL REGION
OAKVILLE OFFICE

DATE: Oct. 24/91.

SEND
TO

Sandy Pattison - Oak. Dist. Office

FROM

T. Payton

DEPT.

R.I.C.

SUBJECT

Info updates for RB storage sites

Sandy in order to help keep your files up-to-date the following info on RB sites is relevant.

- ① Esso Petroleum Canada - 30286A006
Site address is 10 Mississauga Rd. South
Port Credit, Ont. L5G-4M6.
- ② Espe Electronics - 30283A028
Site address is Central Power Systems Inc.
5200 Dixie Rd. Unit "14"

Miss, Ont. L4W-1E4

Espe, the site owner has moved to:

380 Carlingview Drive

Etobicoke, Ont. M9W-5X9.

REPLY FROM

REPLY DATE

COPY

**M.O.E.
COMPLIANCE INSPECTION REPORT - PCB**

DISTRICT: Halton-Peel

REGION: Central

COMPANY/MUNICIPALITY: Imperial Oil / Mississauga

SITE ADDRESS: 10 Mississauga Road South., Mississauga ON, L5G 4M6

CONTACT NAME: Siep Nyholt

CONTACT TELEPHONE: 905 278- 5513

INSPECTION DATE: June 10, 1998

DATE OF LAST INSPECTION: Jan 11, 1996

MOE SITE NUMBER: 302-86A-006

GENERATOR REGISTRATION NUMBER: ON1315723

SITE DESCRIPTION:

- The storage consist of a locked international shipping container.

1.0 SITE SECURITY

- The shipping container is locked and the site is fenced with a locked gate.

2.0 COMPATIBILITY OF MATERIALS STORED

- Only PCB waste is stored in the shipping container.

3.0 INTEGRITY OF PRIMARY CONTAINER

- The primary containers are twenty two 45 gallon metal drums. The inspection revealed no apparent leakage.

4.0 INTEGRITY OF SECONDARY CONTAINER

- The secondary container is a single metal international shipping container with a metal lined drip tray. It appears in good shape.

5.0 LABELLING

- The labelling is satisfactory.

6.0 ADEQUACY OF INSPECTION PROCEDURES

- Monthly inspections are being performed and records are being maintained.

7.0 REVIEW OF ORIS, MANDATORY AND VOLUNTARY ABATEMENT REQUIREMENTS

- No outstanding requirements from the previous inspection report.

8.0 SUMMARY OF FINDINGS:

Pass: X Fail:


9.0 ACTION REQUIRED

- None.

10.0 OTHER COMMENTS AND RECOMMENDATIONS

- None.

OCCURRENCE REPORT #: N/A

INSPECTOR SIGN OFF: _____ 

REPORT DATE:: June 17,1998

DISTRICT SUPERVISOR SIGN OFF : _____

Copy sent to COMPANY

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



Ontario

Ministry of
Environment
and Energy

PCB Inspection Report

① *File/DH*
② *Sandy overall = C.*

PCB Site Information

MOEE Site Number

30286A006

Company / Corporate Name

ESSO PETROLEUM CANADA

Address

10 MISSISSAUGA ROAD SOUTH

Postal Code

PORT CREDIT L5G 4M6

Contact Person

S.J. (SIEP) NYHOLT

Telephone No.

PCB Site Location

AS ABOVE

Municipality

Address

Postal Code

Contact Person

Telephone No.

Reg. 309 Generator Registration Number
(Section 15, O. Reg. 309)

▶ ▶ 0 N 0 0 0 5 2 0 1

MOEE District Office

Halton/Peel

☐ Major Site (Major Site - high and low liquid totals > 1000 litres)☒ Minor Site (Minor Site - high and low liquid totals < 1000 litres)Sensitive If ☐ Yes, indicate☐ School☐ Daycare☐ Feed☐ Other (explain)☐ Hospital☐ Food☐ Water plant☒ No

Indoor

☐ Yes☒ No

Is this structure/building used solely for PCB Storage?

☐ Yes☐ No

Fenced

☒ Yes☐ No

property perimeter

Enclosed

☒ Yes☐ No

Shipping container.

Date Inspected (yy/mm/dd)

96/Jun/11

Inspected By

Todd Payler

Date of Last Inspection (yy/mm/dd)

91/01/23

Inspection Information

* Compliance Assessment:

Compliance (C)

Non-Compliance (N)

Marginal Compliance (M)

1. Site Security

* ☒ C

(a) Is site security being maintained?

☒ YesIf ☐ No, please explain

24 hr. site security

(b) Is access to site restricted to authorized personnel?

☒ YesIf ☐ No, please explain

2. Compatibility of Materials Stored

* ☒ C

(a) Are materials other than PCB wastes or related wastes being stored at site?

If ☐ Yes, please explain☒ No

(b) Is askarel segregated from other PCB wastes?

☐ YesIf ☐ No, please explain

N/A

Inspection Information (cont'd)

* Compliance Assessment:		Compliance (C)	Non-Compliance (N)	Marginal Compliance (M)
3. Integrity of Primary Container * <input checked="" type="checkbox"/>				
(a) Any leaks? If <input type="checkbox"/> Yes, please explain		(b) Indicate type of container. <i>22 - 45 gal. drums</i>		
<input checked="" type="checkbox"/> No				
4. Integrity of Secondary Container * <input checked="" type="checkbox"/>				
(a) Any leaks? If <input type="checkbox"/> Yes, please explain		(b) Indicate type of container. <i>Shipping container with quilt in ship tray.</i>		
<input checked="" type="checkbox"/> No				
5. Labelling * <input checked="" type="checkbox"/>				
Are all wastes / waste containers properly labelled?		<input checked="" type="checkbox"/> Yes If <input type="checkbox"/> No, please explain		
6. Acceptability of Site Operations * <input checked="" type="checkbox"/>				
(a) Are wastes accessible for inspection? <input checked="" type="checkbox"/> Yes If <input type="checkbox"/> No, please explain		(b) Are multiple drums palletized and stacked no more than two high? <input checked="" type="checkbox"/> Yes If <input type="checkbox"/> No, please explain		
7. Adequacy of Inspection Procedures * <input checked="" type="checkbox"/>				
(a) Is current inventory listing readily available? <input checked="" type="checkbox"/> Yes If <input type="checkbox"/> No, please explain		(b) Is the owner's monthly inspection log readily available and up-to-date? <input checked="" type="checkbox"/> Yes If <input type="checkbox"/> No, please explain		
<i>No change w/ Aug. 17/92 letter</i> <i>62 Drums total</i> Append complete inventory form (form # 1089)				
8. Spill Protection * <input checked="" type="checkbox"/>				
(a) Are personnel protection and spill clean-up kits available? <input checked="" type="checkbox"/> Yes If <input type="checkbox"/> No, please explain		(b) Is contingency plan readily available? <input checked="" type="checkbox"/> Yes If <input type="checkbox"/> No, please explain		
9. Fire Protection * <input checked="" type="checkbox"/>				
(a) Is the fire protection equipment maintained and operational? <input checked="" type="checkbox"/> Yes If <input type="checkbox"/> No, please explain		(b) Are ventilation and shut-off systems maintained and operational? <input type="checkbox"/> Yes If <input type="checkbox"/> No, please explain <i>N/A</i>		
(c) Is the Fire Department advised of contingency plan?		<input checked="" type="checkbox"/> Yes If <input type="checkbox"/> No, please explain		

Inspection Information	10. Training <input checked="" type="checkbox"/> Are members of the staff knowledgeable? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No, please explain			
Additional Information	PCB Destruction Completed / Plans for Future Destruction <i>In accordance with condition #5 of Director's Instructions dated June 3/91, a timetable for disposal in details justifying the continued storage of RB's, is to be provided by February 12/96.</i>			
	Transfers of Waste Since Last Inspection (Are all movements authorized by Director's instructions?) <i>On-site movement Aug 17/92, 1 drums added.</i>			
Action Information	Annual Report (Is the annual report prepared / submitted by January 31 of each year?) <i>Prepd & available on-site.</i>			
Action Information	Next Site Inspection Follow-up action (explain) <i>Rev'd to:</i> Date (yy/mm/dd) 2000/Jun/11			
	<i>Env to provide MUE with status of RB disposal (as cont'd storage) in writing by February 12/96.</i>			
	Report of a Provincial Officer, pursuant to the Environmental Protection Act, R.S.O. 1990, Section 156.			
	<table border="1" style="width: 100%;"> <tr> <td style="width: 50%;"> Name of Inspector (Please print) <i>TODD RAYLON</i> </td> <td style="width: 50%;"> Name of P.C.B. Storage Site Supervisor (Please print) <i>SILP NYHOLT</i> </td> </tr> <tr> <td> Signature of Inspector <i>Todd Raylon</i> </td> <td> Signature of P.C.B. Storage Site Supervisor </td> </tr> </table>	Name of Inspector (Please print) <i>TODD RAYLON</i>	Name of P.C.B. Storage Site Supervisor (Please print) <i>SILP NYHOLT</i>	Signature of Inspector <i>Todd Raylon</i>
Name of Inspector (Please print) <i>TODD RAYLON</i>	Name of P.C.B. Storage Site Supervisor (Please print) <i>SILP NYHOLT</i>			
Signature of Inspector <i>Todd Raylon</i>	Signature of P.C.B. Storage Site Supervisor			

**Imperial Oil**

Products and Chemicals Division

10 Mississauga Road S.
Mississauga, Ontario
Canada L5G 4M6

S.J.Nyholt
Site Remediation Specialist
Marketing Services - Engineering

Marketing Department

Facsimile Cover Sheet

To: John Ross
Company: MOEE
Phone:
Fax: 1-905-637-4175

From: Siep Nyholt
Company: Imperial Oil
Phone: 905-278-5513
Fax: 905-278-2568

Date: 1/30/98

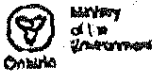
**Pages including this
cover page:** 2

Subject: PCB Site 302 86A 006 Inventory Rpt.

John,

Further to your fax of Jan.13, 1998, please find attached PCB inventory update per Instruction 7.

Yours truly,



PCB Inventory

Instructions are on the reverse of this form.

Waste Disposal Site Information	1. PCB Site Identification		WASTE CLASS 243 D
	PCB site no. 31012 1816 1A101016		
	2. PCB Holder (includes owner, possessor or anyone who has care or control of PCB wastes)		
	Name of company holding PCB ESSO PETROLEUM CANADA (IMPERIAL OIL)		
	Contact person SIEP NYHOLT	Signature 	
	Tel. no. (905) 278-5513		
	3. PCB Site Location		
	Street name 10 MISSISSAUGA RD. S.		
	Township/Municipality name MISSISSAUGA, ONT.		
	County/Regional Municipality PEEL	Postal code L5G 4M6	
	4. Corporate Name And Address Of Holder (if different from 3. above)		
	Name of company IMPERIAL OIL		
	Mailing address SAME AS ABOVE		
	Postal code		

5. The Generator Registration Number associated with this PCB waste storage site must be entered here.

▶▶ 0, N, 0, 0, 0, 5, 2, 0, 1

Waste Quantities And Types	6. Date Survey Completed		JAN. 15 19 98	
	7. Liquids		High Level (over 10000 ppm)	Low Level (50 - 10000 ppm)
	a. bulk liquid	Litres	Litres	
	b. transformers	No. of transformers	No. of transformers	
	c. total liquid in transformers	Litres	Litres	
	8. Solids			
	Capacitors	a. ballasts	No. of drums	3 DRUMS
		b. other capacitors	No. of capacitors	49 - 16 DRUMS
		c. total weight other capacitors / large cap. / other equipment BUSHINGS	No. of drums	2 DRUMS
	Soil/Gravel	d. soil and gravel	No. of drums	
e. total weight not in drums		Kg		
Other Solids	f. clothing, tools, equipment, etc.	No. of drums	1 DRUM	
	g. total weight not in drums	Kg		

TOTAL
22 DRUMS



Imperial Oil

Products and Chemicals Division

10 Mississauga Road S.
Mississauga, Ontario
Canada L5G 4M6

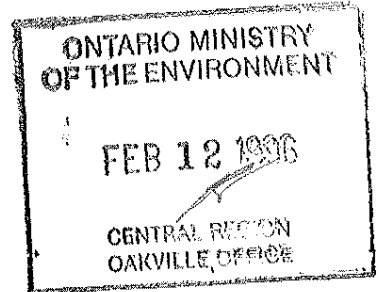
H.F. Wilkinson
Vice President & General Manager
Refining & Supply

Refining & Supply Department

J.R. Lynn
Manager
Refining Services

February 12, 1996

Ministry of the Environment & Energy
Suite 401
1235 Trafalgar Road
Oakville, Ontario
L6H 3P1



Attention: Mr. Todd Paylor, Senior Environmental Officer

Re: **PCB Storage - Site No. 302-86A006**
10 Mississauga Rd. South


Dear Sir:

In response to your Jan.11/96 inspection of our PCB storage facility, we are pleased to reply to your request for details on the future disposition of our stored PCB's.

Imperial is aware that disposal options are becoming available and we are presently studying these options against our specific needs. We are initiating discussions with industries and municipalities who have similar needs to our own. Our ultimate objective is to find an Ontario based solution which may be made more cost effective through synergies with other stakeholders. It is felt that our present method of storing is both safe and secure and therefore affords us the time to select a preferred solution for any future disposal.

We would be pleased to meet and review our position and plans as they unfold. Should you wish further discussion, please contact me at 905-278-5513.

Yours truly,


Siep Wyholt
Project Coordinator

cc: Roger Bywater - Manager, Site Remediation

pcpcbtr.doc

000320

**Imperial Oil
Products and Chemicals Division**

10 Mississauga Road S.
Mississauga, Ontario
Canada L5G 4M6

S.J. Nyholt
Project Coordinator
Site Remediation Group

Refining & Supply Department

Facsimile Cover Sheet

To: Todd Paylor *T.P.*
Company: MOEE
Phone:
Fax: 815-5901

From: Slep Nyholt
Company: Imperial Oil
Phone: 905-278-5513
Fax: 905-278-2568

Date: 1/24/96

Pages including this
cover page: 1

RE: Port Credit - PCB Inspection Report (Jan.11/96)

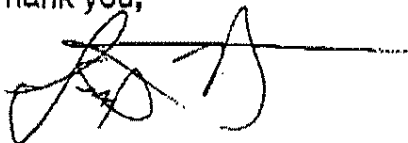
Mr. Paylor,

I would confirm receipt of inspection report and would like to point out that the site no longer has 24 hour security as indicated in your report. This was terminated at the end of 1993.

Currently the site has security coverage Mon. - Fri. 7:30am. - 4:30pm. Main building has electronic surveillance on off-hours with an emergency response telephone number published in our community newsletter. This number is monitored and able to respond 7 days a week, 24 hours a day, by a contract security firm.

Should you have any further questions or comments, please contact me at 278-5513.

Thank you,



Ministry of
Environment

Ministère de
l'Environnement



1182 North Shore Blvd. E.
1st Floor
Burlington ON L7R 3Z9
Tel. (905) 637-4150
Fax (905) 637-4175

1182, boul. North Shore E
8 étage
Burlington ON L7R 3Z9
Tel. (905) 637-4150
Fax (905) 647-4175

June 18, 1998

Imperial Oil
10 Mississauga Road South,
Mississauga, Ontario
L5G 4M6

Attention: Mr. Siep Nyholt

Dear Sir:

Re: Imperial Oil
PCB Waste Storage Site
302-86A-006

Thank you for assisting with my inspection of the above mentioned PCB storage site on June 10, 1998.

Enclosed is the PCB Inspection Report concerning the inspection.

Should you have any questions, please contact me at (905) 637-4164.

Yours truly,

A handwritten signature in dark ink, appearing to be "JA" or "JR", written in a cursive style.

John E. Ross
Senior Environmental Officer



Imperial Oil
Products Division

1210 Sheppard Avenue East
North York, Ontario
Canada M2K 2S8

C.A. Monk
Manager,
Marketing Services

JP
EX-M

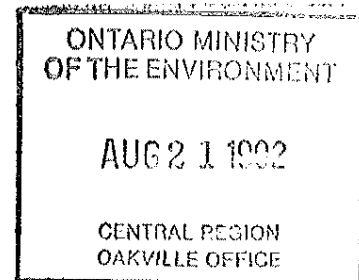


*ensure records
are up-to-date*
Marketing Department

August 17, 1992

PCB Storage
Port Credit Site

Ministry of Environment
Halton Peel District
1235 Trafalgar Road
Suite 401
Oakville, Ontario L6H 3P1



Attention: Mr. John Budz, P. Eng.
District Environmental Officer

Dear Sir:

Subject: PCB Storage Update
Site No. 30286 A006

As required under Section 4 (3) (b), Ontario regulation 11/82, we have the following to report:

1. One barrel numbered 22 containing 12 ballast capacitors was added on July 28/92 to the existing PCB storage facility on the south property. The ballasts were removed from light poles in the south property.
2. A copy of the PCB site inventory audit is attached for your records. This shows the addition of one new barrel.

We trust that this satisfies your requirements. Should you require any further information or a site inspection, please contact the project co-ordinator, Siep Nyholt at 278-5513.

Yours truly,

B. Dosanjh

Bhajan Dosanjh
Senior Engineer

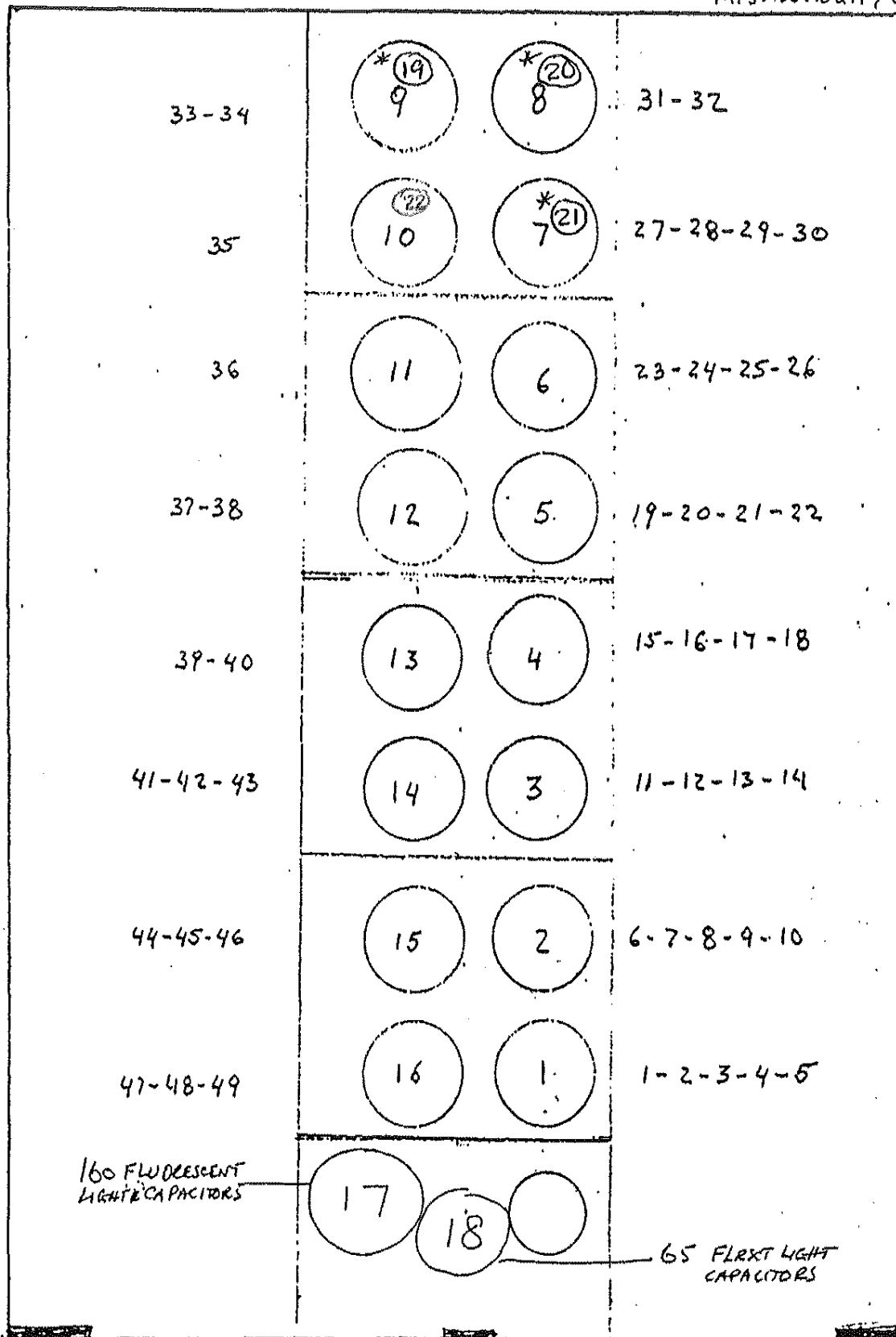
attachment

cc: N. Giuliani

moe.bd/mar

CAPACITORS STORED IN BARRELS WITH UNIT NUMBER
REFERENCE TO STORAGE RECORD LIST

PORT CREDIT SITE NO 302-86-A006, 10 MISSISSAUGA ROAD SOUTH
MISSISSAUGA, ONT.



(19) (20) (21) (22)
TOP BARRELS
19/20 BUSHINGS
21 CLEANUP MTL.
FROM FLR.
22 12-BALLAST
CAPACITORS

16 ← BARREL NUMBER

1-2-3 CAPACITORS NUMBER

~~UPDATED MARCH 26, 1991~~

~~UPDATED JAN 9, 1991 (BARRELS MARKED
* ADDED)~~
AUGUST 13, BARREL 22 ADDED

000324

Esso Petroleum Canada

1210 Sheppard Ave. E.
North York, Ontario
Canada M2K 2S8

Alexander S. Walter
Manager
Ontario Engineering

Esso
Retail/Commercial Department
Fax: (416) 498-2296

① 64- by phone inspection to confirm clean-up was satisfactory from a visual point of view
② IB not to
③ Sample sent please up dot file

January 13, 1992

Suspected PCB Spill
File # 02023

MISSISSAUGA RD
& LAKESHORE RD
11:30
12:00 8'000k

Ministry of the Environment
1235 Trafalgar Rd.
Suite 401
Oakville, Ontario
L6H 3P1

Attention: Mr. Tom Brankovic



Dear Sir:

As explained during my telephone conversation with you December 11, 1991, in the South Property we have a building referred to as a "Butler Building", which has been used as a warehouse for storage of miscellaneous items. During a walk through the storage area a broken bushing and oil on the floor was observed. The oil from the bushing was suspected to contain PCB's, we contracted PCB Consultant Inc. to deal with this problem.

I am forwarding herewith, as agreed, a copy of the Consultant's report. The results of analytical tests on bushing, floor, etc. are presented on the second page of the report, items marked * which contained PCB levels above MOE guidelines have been placed in proper drums (3) and the drums placed in an onsite approved PCB container. The container inventory has been updated and a copy of the current inventory is attached for your records.

Cable and bushing with PCB levels below MOE guidelines have been placed in a proper drum (1) which for now will be left in the Butler Building. Sample 14 and 15 are for circuit breakers in a substation in the South Property.

If you have any questions or concerns please do not hesitate to contact me.

Yours truly,

Bhajan Dosanjh

Bhajan Dosanjh, P.Eng.
Senior Engineer

cc: N. Giuliany - 55 - 9058

1014.bsd

A Division of
Imperial Oil

Imperial 000325

92 01 20
visited site
everything cleaned up
not a spot left on concrete.



A Full Service P.C.B. Management Company

January 8, 1992

Bhajan Dosanjh
Esso Petroleum Canada
10 Mississauga Rd. S.
Port Credit, ONT L5G 4M6

Dear Bhajan: RE: Summary Report - Port Credit Site

Methods:

(a) Floor

The floor cleaning was conducted by wiping the concrete floor surface with solvent soaked rags, followed by an alkali wash. Clay based sorbent material was spread on the surface and was manually ground into the concrete to effectively pull the PCBs out of the pores of the concrete.

The sorbent was then swept up and drummed and a confirmatory wipe test was taken of a randomly selected area (10 cm x 10 cm) using a clean gauze soaked with solvent (acetone). The solvent soaked pad was used to wipe the surface both horizontally and then vertically. The sample was then placed in a glass vial and was taken to the lab for hexane extraction and gas chromatographic analysis.

(b) Cable

The end of a randomly selected piece of cable was wiped and the sample was analyzed as described above.

(c) Bushing

Samples of the insulation from various bushings were taken, including the one which had been broken. Samples were placed in sample bottles and were taken to the lab for PCB analysis.

(d) Circuit Breakers

Oil samples from the circuit breakers in the main substation were taken for PCB analysis.

Results:

The PCBs were extracted from various substrates using hexanes and were cleaned up before GC injection as necessary.

The following represent the final analytical results for the bushings at your site. The data confirm that some bushings are PCB type and others are on-PCB.

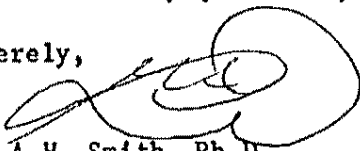
Sample	Type	PCB
1	Bushing	< 1 ppm
* 2		36,000 ppm
3		< 1 ppm
* 4		1,900 ppm
5		110 µg/M sq
6		70 µg/M sq
7		100 µg/M sq
* 8		460 ppm
* 9		520 ppm
10		100 µg/M sq
11		< 1 ppm
* 12		540 ppm
13	Floor	< 100 µg/M sq
14	Circuit Breaker	< 1 ppm
15	Circuit Breaker	< 1 ppm

NOTE: The MOE guideline for PCBs on surfaces in industrial sites is < 1,000 µg/M sq.

The floor is now clean of the PCB residues. The PCB contaminated bushings have been placed in proper drums with sorbent and moved into the approved PCB storage facility on site. The inventory will be amended to include the additional drums of PCB waste.

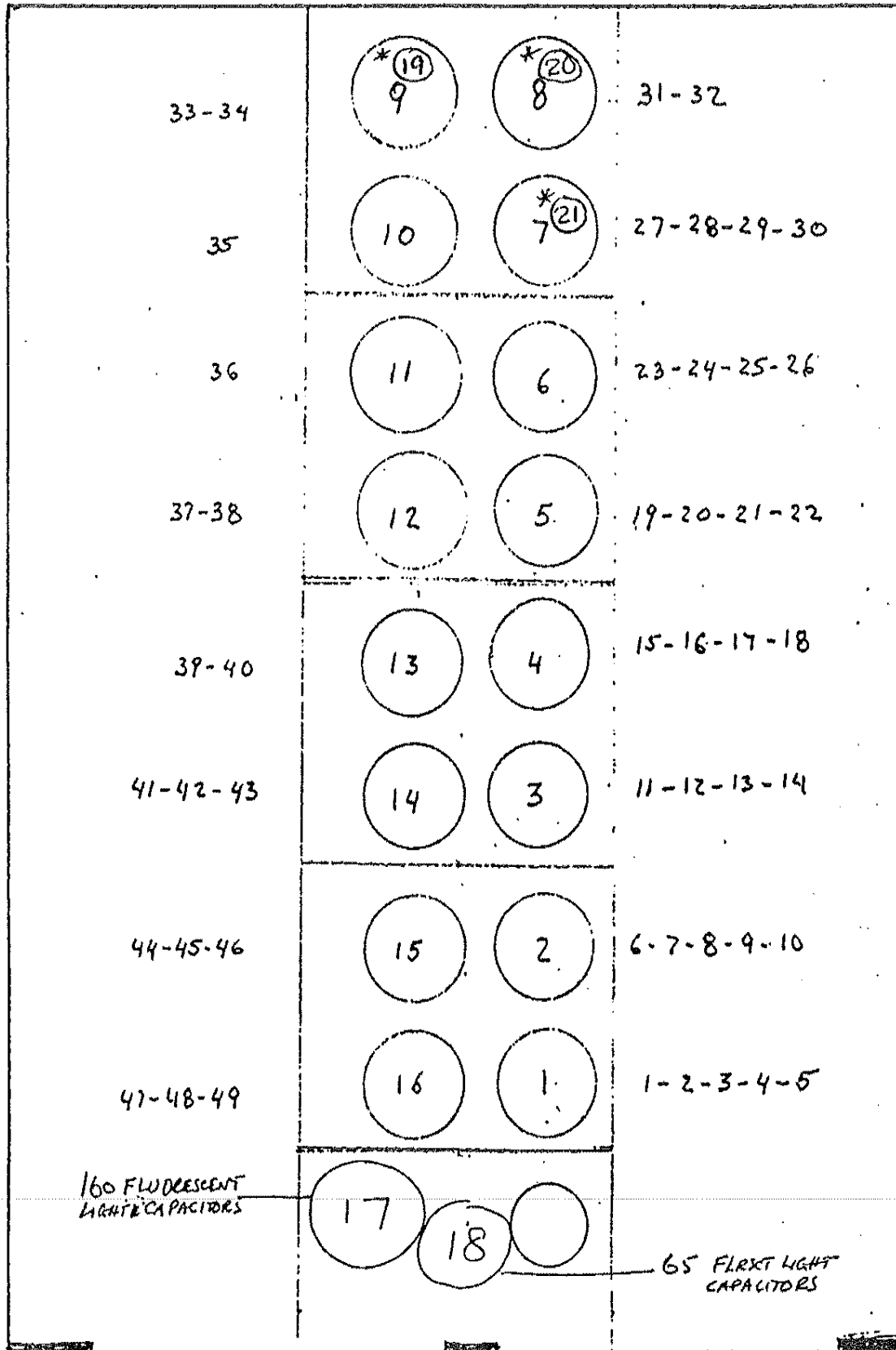
If there are any questions, please call.

Sincerely,


Eric A.H. Smith, Ph.D.
President, PCB Consultants Inc.

CAPACITORS STORED IN BARRELS WITH UNIT NUMBER
REFERENCE TO STORAGE RECORD LIST

PORT CREDIT SITE NO 302-86-A006. 10 MISSISSAUGA ROAD SOUTH
MISSISSAUGA, ONT.



19 20 21
TOP BARRELS
19/20 BUSHINGS
21 CLEANUP MTL
FROM FLR.

16 ← BARREL NUMBER

1-2-3 CAPACITORS NUMBER

~~UPDATED MARCH 26, 1991~~

UPDATED JAN 9, 1991. (BARRELS MARKED
* ADDED)

Esso Petroleum Canada

55 St. Clair Avenue West
Toronto, Ontario
Canada M5W 2J8

D.R. Purdie
Vice-President

Business Services

T.R. Clapp
Director,
Safety & Environmental Affairs

*25/8/91
W.Y.A.
Present OK
ensure this
answers all questions
in our letter
May 2/91*



*6/8/91
response to this
letter is not
reg'd. Please
b/b jR*

August 2, 1991

Mr. John Budz
Ministry of the Environment
Halton Peel District
1235 Trafalgar Road, Suite 401
Oakville, Ontario
L6H 3P1

Attention: Mr. John Budz

ONTARIO MINISTRY
OF THE ENVIRONMENT

AUG 08 1991

CENTRAL REGION
OAKVILLE OFFICE

Re: PCB waste Storage Site Number 302-86-A006

We acknowledge receipt of your letter dated June 3, 1991 which documents the conditions required to bring the referenced site in compliance with Ontario Regulation 11/82.

With respect to the conditions specified in your letter, please note the following:

1. This PCB storage site is operated and maintained in accordance with the standards specified by Environment Canada. We invite the M.O.E. to inspect our site to be satisfied that it is in compliance.
2. No other materials are stored at this site.
3. The waste Generator Number for this site is ON-0005201.
4. A PCB inventory is attached.
5. No plans have been made for the destruction of this PCB inventory. We would welcome any suggestions from your Department on how to dispose of this material.
6. This condition is being complied with. A copy of the monthly inspections carried out to date is attached.
7. This condition is noted and will be complied with.
8. This condition is being complied with as evident from the recent Director's Instructions issued to Esso for storage of Capacitors as noted on the PCB inventory.
9. Access to the PCB site is limited to the Port Credit Site Supervisor and the Security Guard on duty.

10. A contingency plan to handle any occurrence of fire or emergency is in place and has been sent to the Chief Inspector, City of Mississauga Fire Department. This plan is kept on site and has been communicated to the site personnel.
11. This condition has been complied with.
12. This condition is noted and will be complied with.
13. This condition is noted and will be complied with.
14. This condition is noted and will be complied with.

For your records, please note the contact person for the above site is given below and all correspondence concerning the site should be addressed to:

Manager, Remediation, Port Credit Site
Esso Petroleum Canada
55 St. Clair Avenue West, Room 9058
Toronto, Ontario
M5W 2J8

Phone: (416) 968-8087
Fax: (416) 968-5321

Other site information is as follows:

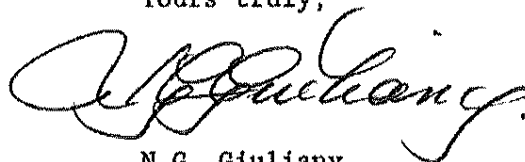
Ownership: 172965 Canada Limited, a wholly owned subsidiary of McColl
Frontenac Inc. (a partnership of Imperial Oil Limited)

Address: 10 Mississauga Road South
Port Credit
Mississauga, Ontario
L5G 4M6

Phone: (416) 278-5511

We trust that the foregoing is satisfactory and if additional information is required please contact us.

Yours truly,



N.G. Giuliani
Manager, Port Credit Site

cc. B. Dosanjh

Instructions are on the reverse of this form.

Waste Disposal Site Information

1. PCB Site Identification

PCB site no. 3 0 2 8 6 A 0 0 6

2. PCB Holder (includes owner, possessor or anyone who has care or control of PCB wastes)

Name of company holding PCB
172965 CANADA LIMITED, A WHOLLY OWNED SUBSIDIARY OF MCCOLL FRONTENAC INC.

Contact person
Manager, Remediation, Port Credit Site

Tel. no.
(416) 968-8087

3. PCB Site Location

Street name
10 Mississauga Road South

Township/Municipality name
Port Credit, Mississauga

County/Regional Municipality
Ontario

Postal code
L5G 4M6

4. Corporate Name And Address Of Holder (if different from 3. above)

Name of company
Esso Petroleum Canada

Mailing address
*55 St. Clair Avenue West
Toronto, Ontario*

Postal code
M5W 2J8

5. The Generator Registration Number associated with this PCB waste storage site must be entered here.

▶ ▶ O N 0 0 0 5 2 0 1

Waste Quantities And Types

6. Date Survey Completed

May 1, 1991

7. Liquids

	High Level (over 5000 ppm)	Low Level (50 - 5000 ppm)
a. bulk liquid	Litres	Litres
b. transformers	No. of transformers	No. of transformers
c. total liquid in transformers	Litres	Litres

8. Solids

Capacitors	a. ballasts	No. of drums	<i>18</i>
	b. other capacitors	No. of capacitors	<i>274</i>
	c. total weight other capacitors	Kg.	<i>approx. 540 Kg.</i>
Soil/Gravel	d. soil and gravel	No. of drums	
	e. total weight not in drums	Kg.	
Other Solids	f. clothing, tools, equipment, etc.	No. of drums	
	g. total weight not in drums	Kg.	

000331

CAPACITORS STORED IN BARRELS WITH UNIT NUMBER
REFERENCE TO STORAGE RECORD LIST

PORT CREDIT SITE NO 302-86-A006, 10 MISSISSAUGA ROAD SOUTH
MISSISSAUGA, ONT.

33-34	9	8	31-32
35	10	7	27-28-29-30
36	11	6	23-24-25-26
37-38	12	5	19-20-21-22
39-40	13	4	15-16-17-18
41-42-43	14	3	11-12-13-14
44-45-46	15	2	6-7-8-9-10
47-48-49	16	1	1-2-3-4-5
160 FLUORESCENT LIGHT CAPACITORS	17	18	65 FIRST LIGHT CAPACITORS

16 ← BARREL NUMBER

1-2-3 CAPACITORS NUMBER

UPDATED MARCH 26, 1991

TANAKU CHIVHUN L.A.C.
PORT CREDIT PLANT CAPACITORS STORAGE RECORD

DATE	EQUIPMENT TYPE	UNIT PLANT #	P.C.B SERIAL #	UNIT, SERIAL #	K.V.R	CAPACITOR SIZE	STORAGE CODE	ORIGIN SOURCE	AUTHORIZATION AND DEPARTMENT
6-4-87	CAPACITOR	1	12206	391B089G01	15	3.36 LITRES	BARREL #1	#2 GAS. COMPRESSOR	ALEX. EVANGEL PLANT. ELECTRIC
6-4-87	CAPACITOR	2	12222	391B089G01	15	3.36 LITRES	BARREL #1	#2 GAS. COMPRESSOR	
6-4-87	CAPACITOR	3	12220	391B089G01	15	3.36 LITRES	BARREL #1	#2 GAS. COMPRESSOR	
6-4-87	CAPACITOR	4	12221	391B089G01	15	3.36 LITRES	BARREL #1	#2 GAS. COMPRESSOR	
6-4-87	CAPACITOR	5	12194	68092185	15	3.36 LITRES	BARREL #1	#2 GAS. COMPRESSOR	
6-4-87	CAPACITOR	6	12219	391B089G01	15	3.36 LITRES	BARREL #2	#2 GAS. COMPRESSOR	
6-4-87	CAPACITOR	7	12211	391B089G01	15	3.36 LITRES	BARREL #2	#2 GAS. COMPRESSOR	
25-6-87	CAPACITOR	8	12213	391B089G01	15	3.36 LITRES	BARREL #2	#2 GAS. COMPRESSOR	
25-6-87	CAPACITOR	9	12212	391B089G01	15	3.36 LITRES	BARREL #2	#2 GAS. COMPRESSOR	
25-6-87	CAPACITOR	10	12210	391B089G01	15	3.36 LITRES	BARREL #3	#2 GAS. COMPRESSOR	
25-6-87	CAPACITOR	11	12209	391B089G01	15	3.36 LITRES	BARREL #3	#2 GAS. COMPRESSOR	
25-6-87	CAPACITOR	12	12208	391B089G01	15	3.36 LITRES	BARREL #3	#2 GAS. COMPRESSOR	
25-6-87	CAPACITOR	13	12214	391B089G01	15	3.36 LITRES	BARREL #3	#2 GAS. COMPRESSOR	
8-8-87	CAPACITOR	14	12215	68092186	15	3.36 LITRES	BARREL #4	#2 GAS. COMPRESSOR	
8-8-87	CAPACITOR	15	12216	391B089G01	15	3.36 LITRES	BARREL #4	#1 GAS. COMPRESSOR	
8-8-87	CAPACITOR	16	12202	391B089G01	15	3.36 LITRES	BARREL #4	#1 GAS. COMPRESSOR	
8-8-87	CAPACITOR	17	12204	391B089G01	15	3.36 LITRES	BARREL #4	#1 GAS. COMPRESSOR	
7-10-87	CAPACITOR	18	12203	391B089G01	15	3.36 LITRES	BARREL #5	#1 GAS. COMPRESSOR	
7-10-87	CAPACITOR	19	12205	391B089G01	15	3.36 LITRES	BARREL #5	#1 GAS. COMPRESSOR	
7-10-87	CAPACITOR	20	12193	391B089G01	15	3.36 LITRES	BARREL #5	#1 GAS. COMPRESSOR	
7-10-87	CAPACITOR	21	12207	391B089G01	15	3.36 LITRES	BARREL #5	#1 GAS. COMPRESSOR	
15-1-88	CAPACITOR	22	12217	391B089G01	15	3.36 LITRES	BARREL #6	#1 GAS. COMPRESSOR	
15-1-88	CAPACITOR	23	12218	391B089G01	15	3.36 LITRES	BARREL #6	#1 GAS. COMPRESSOR	
15-1-88	CAPACITOR	24	12195	391B089G01	15	3.36 LITRES	BARREL #6	#1 GAS. COMPRESSOR	
15-1-88	CAPACITOR	25	12196	391B089G01	15	3.36 LITRES	BARREL #6	#1 GAS. COMPRESSOR	



Ministry
of the
Environment

Ministère
de
l'Environnement

Central
Region

Région du
Centre

1991 08 27

Suite 401
1235 Trafalgar Road
Oakville, Ontario
L6H 3P1
416/844-5747
416/822-2566

Bureau 401
1235, chemin Trafalgar
Oakville (Ontario)
L6H 3P1
416/844-5747
416/822-2566

Manager, Remediation, Port Credit Site
Esso Petroleum Canada
55 St. Clair Avenue West
Room 9058
Toronto, Ontario
M5W 2J8

DO NOT SEND

Attention: N.G. Giuliani
Manager, Port Credit Site

Dear Sir:

Re: PCB WASTE STORAGE SITE NO. 302-86-A006

This will acknowledge receipt of your letter dated August 2, 1991.

The previous letter sent to you was issued to update the conditions required to store PCB's on site.

At present there is no method available for the destruction of PCB capacitors and so they must be properly stored.

~~I wish to thank you for your prompt reply to my letter.~~

Yours truly,

J. Budz, P. Eng
District Officer and
Director Ont. Reg. 11/82

JB:GY:smp

*assessed
PDD*

**INSPECTION REPORT
PCB LIQUID WASTE STORAGE SITE**

INSPECTED BY: T J Hunter DATE: Oct 11 '88

SITE NUMBER:

--	--	--	--	--	--	--	--	--	--

Texaco Canada Inc.
Lakeshore Blvd. West, Mississauga
COMPLETE ONLY IF NUMBER EASILY AVAILABLE
STORAGE FACILITIES AT A SITE MAY MINOR DATABASE - RECORD 179
NUMBERS. INSPECTOR: TH

OWNER/OPERATOR: Texaco Canada

ADDRESS: 10 Mississauga Rd 5

TEL. NO. () _____ POSTAL CODE: _____

NAME OF CONTACT PERSON AT SITE: Len McKenzie

(FOR MINISTRY USE ONLY) LEGAL NAME AND ADDRESS OF SITE OWNER:

POSTAL CODE: _____

1. GENERAL DESCRIPTION OF SITE

	Check
Outdoor storage fenced	_____
Indoor storage unit	_____
Separate Room or building	_____
Indoor storage fenced	_____
International shipping container	<input checked="" type="checkbox"/>
Other (describe) _____	_____

2. INDOOR STORAGE (if not indoors go to Section 3)

Is storage site ☐ within plant/building
☒ external to main building

Briefly describe storage area: _____

Are PCB warning signs visible YES NO

Describe _____

Is access to PCB storage securely locked YES NO

Is storage compartment made of: metal, concrete, wood
shipping container, other. Describe: _____

If shipping container, how many? 2

Is storage or shipping container fenced? YES NO

If yes, describe fence in Section 3.

Does ventilation from storage facility exhaust to outside? YES NO

Does ventilation from storage facility exhaust into the
plant? YES NO

No ventilation

Are instructions for operating ventilation system
posted? YES NO

3. OUTDOOR STORAGE

Briefly describe storage site _____

Is storage fenced? YES NO

Condition of fence _____

Is access to the site locked? YES NO

Are PCB warning signs prominently displayed? YES NO

Describe where? _____

Height of fence: _____ m/ft.

No. of gates in fence: _____

Condition of gate: _____

Gate(s) securely locked? YES NO

Describe problem (if any) _____

Is site protected from elements? YES NO

Is there a rain water (snow) runoff catchment pond? YES NO

Is there is a PCB leak holding pond? YES NO

Describe _____

4. PCB CONTAINMENT AREA

DESCRIBE MATERIAL STORED	Check
- PCB liquids (askarel)	_____
- PCB contaminated oils	_____
- PCB contaminated soil, rags, clothing, etc.	_____
- Drained equipment	_____
- Full equipment (transformers, capacitors, etc.)	<u>✓</u>
- Flammable liquids such as gasoline, solvents, etc. (describe) _____	

Is there containment? YES NO

Describe containment: Concrete Metal
Other, describe: _____

X If concrete, is surface free of cracks? YES NO

X If concrete, is surface coated with sealant? YES NO

Are joints, both to the floor and seams welded or caulked? YES NO

Are equipment or drums in metal trays in containment area? YES NO

If yes, Describe: full floor tray is containment

Describe curbing height: 3 1/2 cm/ins.

Is curbing continuous around entire containment area YES NO

Describe, if not continuous _____

(Note: Check doorway for continuity of curbing)

Area of storage floor _____ x _____

Length of sides/diameter, if circular: Sketch and dimensions

(For Office Use) Calculated Containment Volume: _____

In containment area, are there floordrain(s) YES NO

If so, are they blocked? YES NO

Is site neat (i.e. papers, rags or debris on floor)? YES NO

Is there adequate space between drums and equipment to inspect each item? YES NO

y If outdoors, is containment area covered? YES NO

Describe: _____

5. PCB STORAGE CONTAINERS

How is PCB wastes packaged: Drums Tanks Equipment Other?

Describe Packaging: resting on pallets

Number stored: 49) Describe separately for

Size/volume of each: total 225 L) each waste type in
Question 4, if available

Are drums/containers or equipment stacked? YES ☒ NO

Describe _____

☒ Do the stacked containers hold liquid? YES NO

Are containers on pallets? ☒ YES NO

Are individual containers labelled? ☒ YES NO

Are containers leaking or deteriorating? YES ☒ NO

If yes, describe: _____

Are PCB wastes only stored on site? ☒ YES NO

Describe other items or materials present in storage area: _____

6. FIRE PROTECTION AND SPILLS PROTECTION

Is site readily accessible to fire fighting vehicles? ☒ YES NO

Is fire hydrant located nearby? ☒ YES NO

Is access to site restricted by owner? ☒ YES NO

Has fire department been notified of site? ☒ YES NO

Is containment area equipped with fire alarms? YES ☒ NO

Is area protected with fire and smoke detectors? YES ☒ NO

Is area protection system wired to central control? YES ☒ NO

Is area equipped with fire extinguishers or extinguishing systems? ☒ YES NO

Is audible alarm connected to extinguishing system? YES ☒ NO

Are site personnel trained in how to respond to a PCB spill or fire? general hazard training YES NO

Are these procedures documented? YES NO

Are other combustible materials present? YES ☒ NO

Describe _____

Sorbents available on site or in close proximity? ☒ YES NO

Personal protective equipment? ☒ YES NO

(NOTE: This is an opportune time to take photographs, particularly if storage conditions are poor or leaks are obvious.)

7. INSPECTION ROUTINES

Is log maintained of routine inspections? YES ☒ NO
When was site last inspected? last week MOE
By whom was site inspected? electrician, L.M. 3 weeks ago
Is list of authorized inspectors displayed or available? YES ☒ NO
Frequency of routine inspections: weekly ~~bimonthly~~
Are PCB wastes movements in or out logged? YES ☒ NO
Describe no movements
Are Ministry approvals or authorizations on file? YES NO

8. PERSONNEL TRAINING

Are personnel trained in storage site operation,
inspection and emergency response? YES NO

general response training

If yes,

- Is list of trained personnel displayed or available? YES NO
- Is date of last training period listed? YES NO
- Is training manual/operations manual available? YES NO

Comments: _____

9. GENERAL COMMENTS BY INSPECTOR

capacitors are stacked on skids
they will be placed in
barrels stored in abrasives
materials, Everything is ready
will be transferring them
shortly

10. DESCRIBE STORAGE SITE WEAKNESSES, PROBLEMS OR INFRACTIONS THAT WERE
REPORTED TO THE MOE DISTRICT OFFICER

None

If #10 completed, sign here as shown:

Signature of authorized party from storage site: _____

Date Reported to MOE: _____

Inspector's signature: _____

Signature of Inspector: _____

Time inspection completed: 2:15 (a.m./p.m.)

Final check: Take at least two photos of site before leaving.

COMPLIANCE ASSESSMENT SHEETS

Site Name: TexascoFacility Type: SC

O = Outdoor
IR = Inside Vault
IF = Inside Fenced
SC = International Shipping Container

PCB Material Stored: FE

AS = Askarel
OL = Contaminated Oil
SO = Solids
DE = Drained Equipment

Criterion	Rating C, M, N	Rationale (30 Char or Less)
1. Site Assessment	C	locked SC
2. Material Stored	C	capacitors
3. Primary Containment	C	drums & equipment
4. Secondary Containment	C	metal
5. Identification	C	warning sign visible & containers labelled
6. Site Operations	C	neat & adequate spacing
7. Inspection	M	bi-monthly inspections not logged
8. Spill Protection	N	no training or procedures; sorvent & equipment available
9. Fire Protection	N	no alarms; no training or procedures
10. Training	N	no training

PORT CREDIT PLANT CAPACITORS ON SITE										Page 1
EQUIPMENT TYPE	PLANT NO	PORT CREDIT P.C.D.	PLANT STYLE NO OR SERIAL NO	CAPACITORS TEST NO	ON SITE KVAK	VOLTS	TYPE	CAPACITOR SIZE	MAKE	LOCATION
CAPACITOR	1	12206	391B089601	59B247 EX	15	2,400	FP	3.36 LITRES	WESTINGHOUSE	#1 GAS COMP
CAPACITOR	2	12222	391B089601	59B243 EX	15	2,400	FP	3.36 LITRES	WESTINGHOUSE	#2 GAS COMP
CAPACITOR	3	12220	391B089601	59B236 EX	15	2,400	FP	3.36 LITRES	WESTINGHOUSE	#2 GAS COMP
CAPACITOR	4	12221	391B089601	59B240 EX	15	2,400	FP	3.36 LITRES	WESTINGHOUSE	#2 GAS COMP
CAPACITOR	5	12194	68092185	4118581-M	15	2,400	FP	3.36 LITRES	WESTINGHOUSE	#2 GAS COMP
CAPACITOR	6	12219	391B089601	59B245 EX	15	2,400	FP	3.36 LITRES	WESTINGHOUSE	#2 GAS COMP
CAPACITOR	7	12211	391B089601	59B232 EX	15	2,400	FP	3.36 LITRES	WESTINGHOUSE	#2 GAS COMP
CAPACITOR	8	12213	391B089601	59B235 EX	15	2,400	FP	3.36 LITRES	WESTINGHOUSE	#2 GAS COMP
CAPACITOR	9	12217	391B089601	59B234 EX	15	2,400	FP	3.36 LITRES	WESTINGHOUSE	#2 GAS COMP
CAPACITOR	10	12210	391B089601	59B231 EX	15	2,400	FP	3.36 LITRES	WESTINGHOUSE	#2 GAS COMP
CAPACITOR	11	12209	391B089601	59B057 AX	15	2,400	FP	3.36 LITRES	WESTINGHOUSE	#2 GAS COMP
CAPACITOR	12	12208	391B089601	59B237 EX	15	2,400	FP	3.36 LITRES	WESTINGHOUSE	#2 GAS COMP
CAPACITOR	13	12214	391B089601	59B239 EX	15	2,400	FP	3.36 LITRES	WESTINGHOUSE	#2 GAS COMP
CAPACITOR	14	12215	68092186	4118581-M	15	2,400	FP	3.36 LITRES	WESTINGHOUSE	#2 GAS COMP
CAPACITOR	15	12216	391B089601	59B246 EX	15	2,400	FP	3.36 LITRES	WESTINGHOUSE	#2 GAS COMP
CAPACITOR	16	12202	391B089601	59B054 AX	15	2,400	FP	3.36 LITRES	WESTINGHOUSE	#1 GAS COMP
CAPACITOR	17	12204	391B089601	59B049 AX	15	2,400	FP	3.36 LITRES	WESTINGHOUSE	#1 GAS COMP
CAPACITOR	18	12203	391B089601	59B060 AX	15	2,400	FP	3.36 LITRES	WESTINGHOUSE	#1 GAS COMP
CAPACITOR	19	12205	391B089601	39B060 AX	15	2,400	FP	3.36 LITRES	WESTINGHOUSE	#1 GAS COMP
CAPACITOR	20	12193	391B089601	39B053 AX	15	2,400	FP	3.36 LITRES	WESTINGHOUSE	#1 GAS COMP
CAPACITOR	21	12207	391B089601	39B055 AX	15	2,400	FP	3.36 LITRES	WESTINGHOUSE	#1 GAS COMP
CAPACITOR	22	12217	391B089601	57J2541 F	15	2,400	FP	3.36 LITRES	WESTINGHOUSE	#1 GAS COMP
CAPACITOR	23	12218	391B089601	59B052 COI	15	2,400	FP	3.36 LITRES	WESTINGHOUSE	#1 GAS COMP
CAPACITOR	24	12195	391B089601	59B061 AX	15	2,400	FP	3.36 LITRES	WESTINGHOUSE	#1 GAS COMP
CAPACITOR	25	12196	391B089601	59A154 AX	15	2,400	FP	3.36 LITRES	WESTINGHOUSE	#1 GAS COMP

EQUIPMENT	TYPE	PLANT NO.	LABEL NO.	PORT OR R.G.B.	COUNTRY	PLANT OR SERIAL NO.	CAPACITORS ON SITE			KVH	VOLTS	TYPE	CAPACITOR SIZE	MAKE	LOCATION
							TEST NO	NO	SIZE						
CAPACITOR		26	12197			391B089601	598056	AX	15		2400	EP	3.36 LITRES	WESTINGHOUSE	#1 GAS. COMP.
CAPACITOR		27	12198			391B089601	598056	AX	15		2400	EP	3.36 LITRES	WESTINGHOUSE	#1 GAS. COMP.
CAPACITOR		28	12199			391B089601	598057	AX	15		2400	EP	3.36 LITRES	WESTINGHOUSE	#1 GAS. COMP.
CAPACITOR		29	12200			391B089601	598058	AX	15		2400	EP	3.36 LITRES	WESTINGHOUSE	#1 GAS. COMP.
CAPACITOR		30	12201			391B089601	598059	AX	15		2400	EP	3.36 LITRES	WESTINGHOUSE	#1 GAS. COMP.
CAPACITOR		31	12189			823C500A47	7413618	C.V	40		600	EP	3.96 LITRES	WESTINGHOUSE	SSOV. MACH.
CAPACITOR		32	12190			823C500A47	7413620	C.V	40		600	EP	3.96 LITRES	WESTINGHOUSE	SSOV. MACH.
CAPACITOR		33	12191			823C500A47	7413621	C.V	40		600	EP	3.96 LITRES	WESTINGHOUSE	SSOV. MACH.
CAPACITOR		34	12192			823C500A47	7413622	C.V	40		600	EP	3.96 LITRES	WESTINGHOUSE	SSOV. MACH.
CAPACITOR		35	12226			586L427-1	7210419		150		4400	FP	33.6 LITRES	CAN. GEN. ELEC.	CRU. GAS. COMP.
CAPACITOR		36	12227			586L427-1	7210421		150		4400	FP	33.6 LITRES	CAN. GEN. ELEC.	CRU. GAS. COMP.
CAPACITOR		37	08394			586L427-1	6513627		150		4400	FP	33.6 LITRES	CAN. GEN. ELEC.	CRU. SURGE
CAPACITOR		38	08387			586L427-1	586L427-1		100		4400	FP	22.4 LITRES	CAN. GEN. ELEC.	SULPHUR UNW.
CAPACITOR		39	12225			7210424	586L427-1		150		4400	FP	33.6 LITRES	CAN. GEN. ELEC.	SULPHUR UNW.
CAPACITOR		40	08388			7210423	586L427-1		150		4400	FP	33.6 LITRES	CAN. GEN. ELEC.	SULPHUR UNW.
CAPACITOR		41	08393			586L427-1	6513627		20		575	FP	5.6 LITRES	GENERAL ELEC.	GAS. SHIP PUMP
CAPACITOR		42	08392			586L427-1	6513628		20		575	FP	5.6 LITRES	GENERAL ELEC.	GAS. SHIP PUMP
CAPACITOR		43	08391			586L427-1	6513629		20		575	FP	5.6 LITRES	GENERAL ELEC.	GAS. SHIP PUMP
CAPACITOR		44	08390			586L427-1	6513630		20		575	FP	5.6 LITRES	GENERAL ELEC.	GAS. SHIP PUMP
CAPACITOR		45	12223			323C500A43	7413640	DR	25		600	FP	5.6 LITRES	CAN. WESTINGHOUSE	DISTIL. PUMP
CAPACITOR		46	08395			1034402	11.38240		5		650	FP	1.12 LITRES	CAN. WESTINGHOUSE	N.T.E
CAPACITOR		47				1951860A06	78H4635		25		600	BY	2.27	CAN. WESTINGHOUSE	N.T.E
CAPACITOR		48				5-1416426			225 M.F		330 V. A.C.			WESTINGHOUSE	C.S.U
CAPACITOR		49				5-1416426			225 M.F		330 V. A.C.			WESTINGHOUSE	C.S.U

285 # L

Printing date: 05/26/99

1. *Phragmites australis* (Cav.) Trin. ex Steud.

6/16/1900
L. 1000

1. *Pharmaceuticals* (1997)

Date Survey completed: / /

How are these 49
caps stored ie # of
drums & # in each
drum

PORT CREDIT PLANT CAPACITORS ON SITE										
P.C.B. STYLE NO. OF										
EQUIPMENT TYPE	PLANT NO.	LABEL NO.	SERIAL NO.	TEST NO.	KVAR	VOLTS	TYPE	CAPACITOR SIZE	MAKE	LOCATION
CAPACITOR	26	12197	391B089601	59A156 C X	15	2400	FP	3.36 LITRES	WESTINGHOUSE	H.I. GAS COMP.
CAPACITOR	27	12198	391B089601	59B056 A X	15	2400	FP	3.36 LITRES	WESTINGHOUSE	H.I. GAS COMP.
CAPACITOR	28	12199	391B089601	59B051 A X	15	2400	FP	3.36 LITRES	WESTINGHOUSE	H.I. GAS COMP.
CAPACITOR	29	12200	391B089601	59B058 A X	15	2400	FP	3.36 LITRES	WESTINGHOUSE	H.I. GAS COMP.
CAPACITOR	30	12201	391B089601	54C5040D	15	2400	FP	3.36 LITRES	WESTINGHOUSE	H.I. GAS COMP.
CAPACITOR	31	12189	823C500A47	74J618 C U	40	600	FP	3.96 LITRES	WESTINGHOUSE	550 V. MAIN
CAPACITOR	32	12190	823C500A47	74J620 C U	40	600	FP	3.96 LITRES	WESTINGHOUSE	550 V. MAIN
CAPACITOR	33	12191	823C500A47	74J617 C U	40	600	FP	3.96 LITRES	WESTINGHOUSE	550 V. MAIN
CAPACITOR	34	12192	823C500A47	74J621 C U	40	600	FP	3.96 LITRES	WESTINGHOUSE	550 V. MAIN
CAPACITOR	35	12226	5861427-1	7210419	150	4160	FP	33.6 LITRES	CAN. GEN. ELEC.	CPU-GAS COMP.
CAPACITOR	36	12227	5861427-1	7210421	150	4160	FP	33.6 LITRES	CAN. GEN. ELEC.	CPU-GAS COMP.
CAPACITOR	37	08394	94B66729	85687	15	4160	FP	3.3 LITRES	CAN. GEN. ELEC.	CPU-SURGE UNIT
CAPACITOR	38	08387	1107330203	5861324-1	100	4160	FP	22.4 LITRES	CAN. GEN. ELEC.	SULPHUR UNIT
CAPACITOR	39	12225	7210424	5861427	150	4160	FP	33.6 LITRES	CAN. GEN. ELEC.	SULPHUR UNIT
CAPACITOR	40	08388	7210423	5861427	150	4160	FP	33.6 LITRES	CAN. GEN. ELEC.	SULPHUR UNIT
CAPACITOR	41	08393	55F325 A.E.	6132901	20	575	FP	5.6 LITRES	GENERAL ELEC.	GAS SHIP PUMP
CAPACITOR	42	08392	55F325 A.E.	6234325	20	575	FP	5.6 LITRES	GENERAL ELEC.	GAS SHIP PUMP
CAPACITOR	43	08391	55F325 A.E.	6134352	20	575	FP	5.6 LITRES	GENERAL ELEC.	OIL SHIP PUMP
CAPACITOR	44	08390	55F325 A.E.	6134339	20	575	FP	5.6 LITRES	GENERAL ELEC.	OIL SHIP PUMP
CAPACITOR	45	12223	823C500A43	71B864 D.R.	25	600	FP	5.6 LITRES	CAN. WESTIN. SE.	DISTILL. FROM
CAPACITOR	46	08395	1634482	11.38240	5	650	FP	1.12 LITRES	CAN. WESTIN. SE.	N.T.F.
CAPACITOR	47		1951B60A06	78H1463CS	25	600	DX	2.27	CAN. WESTIN. SE.	N.T.F.
CAPACITOR	48		S-1446426		375 M.F.	330 V.A.C.			WESTINGHOUSE	C.S.U.
CAPACITOR	49		S-1446426		375 M.F.	330 V.A.C.			WESTINGHOUSE	C.S.U.

PORT CREDIT PLANT CAPACITORS ON SITE											Page 1								
P.C. NO.		STATION NO.		OR		TEST NO.		KVARS		VOLTS		TYPE		CAPACITOR SIZE		MAKE		LOCATION	
EQUIPMENT TYPE	PLANT NO.	LABEL NO.	SERIAL NO.	TEST NO.	KVAR	VOLTS	TYPE	CAPACITOR SIZE	MAKE	LOCATION									
CAPACITOR	1	12206	391B089601	59B247 EX	15	2,400	FP	3.36 LITRES	WESTINGHOUSE	#1 GAS COMP									
CAPACITOR	2	12222	391B089601	59B243 EX	15	2,400	FP	3.36 LITRES	WESTINGHOUSE	#2 GAS COMP									
CAPACITOR	3	12220	391B089601	59B236 EX	15	2,400	FP	3.36 LITRES	WESTINGHOUSE	#2 GAS COMP									
CAPACITOR	4	12221	391B089601	59B240 EX	15	2,400	FP	3.36 LITRES	WESTINGHOUSE	#2 GAS COMP									
CAPACITOR	5	12194	68092185	1418521-M	15	2,400	FP	3.36 LITRES	WESTINGHOUSE	#2 GAS COMP									
CAPACITOR	6	12219	391B089601	59B245 EX	15	2,400	FP	3.36 LITRES	WESTINGHOUSE	#2 GAS COMP									
CAPACITOR	7	12211	391B089601	59B232 EX	15	2,400	FP	3.36 LITRES	WESTINGHOUSE	#2 GAS COMP									
CAPACITOR	8	12213	391B089601	59B235 EX	15	2,400	FP	3.36 LITRES	WESTINGHOUSE	#2 GAS COMP									
CAPACITOR	9	12212	391B089601	59B234 EX	15	2,400	FP	3.36 LITRES	WESTINGHOUSE	#2 GAS COMP									
CAPACITOR	10	12210	391B089601	59B231 EX	15	2,400	FP	3.36 LITRES	WESTINGHOUSE	#2 GAS COMP									
CAPACITOR	11	12209	391B089601	59B057 AX	15	2,400	FP	3.36 LITRES	WESTINGHOUSE	#2 GAS COMP									
CAPACITOR	12	12208	391B089601	59B237 EX	15	2,400	FP	3.36 LITRES	WESTINGHOUSE	#2 GAS COMP									
CAPACITOR	13	12214	391B089601	59B239 EX	15	2,400	FP	3.36 LITRES	WESTINGHOUSE	#2 GAS COMP									
CAPACITOR	14	12215	68092186	1418581-M	15	2,400	FP	3.36 LITRES	WESTINGHOUSE	#2 GAS COMP									
CAPACITOR	15	12216	391B089601	59B246 EX	15	2,400	FP	3.36 LITRES	WESTINGHOUSE	#2 GAS COMP									
CAPACITOR	16	12202	391B089601	59B054 AX	15	2,400	FP	3.36 LITRES	WESTINGHOUSE	#1 GAS COMP									
CAPACITOR	17	12204	391B089601	59B049 AX	15	2,400	FP	3.36 LITRES	WESTINGHOUSE	#1 GAS COMP									
CAPACITOR	18	12203	391B089601	59B060 AX	15	2,400	FP	3.36 LITRES	WESTINGHOUSE	#1 GAS COMP									
CAPACITOR	19	12205	391B089601	39B060 AX	15	2,400	FP	3.36 LITRES	WESTINGHOUSE	#1 GAS COMP									
CAPACITOR	20	12193	391B089601	39B053 AX	15	2,400	FP	3.36 LITRES	WESTINGHOUSE	#1 GAS COMP									
CAPACITOR	21	12207	391B089601	39B055 AX	15	2,400	FP	3.36 LITRES	WESTINGHOUSE	#1 GAS COMP									
CAPACITOR	22	12217	391B089601	57J2541 F	15	2,400	FP	3.36 LITRES	WESTINGHOUSE	#1 GAS COMP									
CAPACITOR	23	12218	391B089601	59B052 G01	15	2,400	FP	3.36 LITRES	WESTINGHOUSE	#1 GAS COMP									
CAPACITOR	24	12195	391B089601	59B061 AX	15	2,400	FP	3.36 LITRES	WESTINGHOUSE	#1 GAS COMP									
CAPACITOR	25	12196	391B089601	59A154 AX	15	2,400	FP	3.36 LITRES	WESTINGHOUSE	#1 GAS COMP									

PORT CREDIT PLANT CAPACITORS STORAGE RECORD

DATE	EQUIPMENT TYPE	UNIT PLANT #	P.C.B SERIAL #	UNIT, SERIAL #	K.V.R	CAPACITOR SIZE	STORAGE CODE	ORIGIN SOURCE	AUTHORIZATION AND DEPARTMENT
20-3-88	CAPACITOR	26	12197	391B089G01	15	3.36 LITRES	BARREL # 6	#1 GAS. COMPRESSOR	ALEX. EVANGEL PLANT. ELECTRIC
20-3-88	CAPACITOR	27	12198	391B089G01	15	3.36 LITRES	BARREL # 7	#1 GAS. COMPRESSOR	
20-3-88	CAPACITOR	28	12199	391B089G01	15	3.36 LITRES	BARREL # 7	#1 GAS. COMPRESSOR	
20-3-88	CAPACITOR	29	12200	391B089G01	15	3.36 LITRES	BARREL # 7	#1 GAS. COMPRESSOR	
20-3-88	CAPACITOR	30	12201	391B089G01	15	3.36 LITRES	BARREL # 7	#1 GAS. COMPRESSOR	
5-4-88	CAPACITOR	31	12189	823C500A47	40	3.96 LITRES	BARREL # 8	550 V MAIN	
5-4-88	CAPACITOR	32	12190	823C500A47	40	3.96 LITRES	BARREL # 8	550 V MAIN	
5-4-88	CAPACITOR	33	12191	823C500A47	40	3.96 LITRES	BARREL # 9	550 V MAIN	
4-5-88	CAPACITOR	34	12192	823C500A47	40	3.96 LITRES	BARREL # 9	550 V MAIN	
4-5-88	CAPACITOR	35	12226	586L427-1	150	33.6 LITRES	BARREL # 10	C.R.U. GAS. CAP.	
4-5-88	CAPACITOR	36	12227	586L427-1	150	33.6 LITRES	BARREL # 11	C.R.U. GAS. CAP.	
4-5-88	CAPACITOR	37	08399	4486629	15	3.3 LITRES.	BARREL # 12	C.R.U. SURGE CAP.	
15-6-88	CAPACITOR	38	08387	N07320203	100	22.4 LITRES.	BARREL # 12	SULPHUR UNIT	
15-6-88	CAPACITOR	39	12225	7210424	150	33.6 LITRES.	BARREL # 13	SULPHUR UNIT	
15-6-88	CAPACITOR	40	08388	7210423	150	33.6 LITRES	BARREL # 13	SULPHUR UNIT	
18-7-88	CAPACITOR	41	08393	55F325A.E	20	5.6 LITRES	BARREL # 14	GAS. SHIP. PUMP N.T.F	
18-7-88	CAPACITOR	42	08392	55F325A.E	20	5.6 LITRES	BARREL # 14	GAS. SHIP. PUMP N.T.F	
18-7-88	CAPACITOR	43	08391	55F325A.E	20	5.6 LITRES	BARREL # 14	OIL SHIP PUMP N.T.F	
18-7-88	CAPACITOR	44	08390	55F325A.E	20	5.6 LITRES.	BARREL # 15	OIL SHIP PUMP N.T.F	
18-7-88	CAPACITOR	45	12223	823C500A.43	25	5.6 LITRES	BARREL # 15	DISTILLATE PUMP	
12-8-88	CAPACITOR	46	08395	1634482	5	1.12 LITRES	BARREL # 15	N.T.F	
12-8-88	CAPACITOR	47		1951B20A06	25	2.27 LITRES.	BARREL # 16	N.T.F	
12-8-88	CAPACITOR	48		S-1446426	MF 37.5		BARREL # 16	C.S.U UNIT	
12-8-88	CAPACITOR	49		S-1446426	MF 37.5		BARREL # 16	C.S.U UNIT	



Ministry
of the
Environment

Ministère
de
l'Environnement

Central
Region

Région du
Centre

JLB

Suite 401
1235 Trafalgar Road
Oakville, Ontario
L6H 3P1
416/844-5747
416/822-2566

Bureau 401
1235, chemin Trafalgar
Oakville (Ontario)
L6H 3P1
416/844-5747
416/822-2566

October 29, 1986.


Texaco Canada Ltd.
1210 Sheppard Ave. E.
Willowdale, Ontario.
M2K 2S8

Attention: Mr. Charles Hailes
Co-Ordinator, Air & Water Conservation,
Refinery Department

Dear Charles:

This letter will confirm the inspection on October 20, 1986
of your PCB storage containers, and their acceptability at
the Port Credit Refinery site.

Yours truly


Robert Graham
Senior Environmental Officer
Halton/Peel

RG/gm



Ministry
of the
Environment

Ministère
de
l'Environnement

Central
Region

Région du
Centre

Suite 401
1235 Trafalgar Road
Oakville, Ontario
L6H 3P1
416/844-5747
416/822-2566

Bureau 401
1235, chemin Trafalgar
Oakville (Ontario)
L6H 3P1
416/844-5747
416/822-2566

April 2, 1986

Texaco Canada Inc.
1210 Sheppard Ave. E.
Willowdale, North York
Ontario
M2K 2S8

Attention: Mr. H. J. Carter
Senior Coordinator
Environmental Protection Div., Refining Dept.

Dear Sir:

RE: PCB Storage Site, Texaco Canada Inc., Port Credit Plant,
Mississauga, Ontario

This letter is in reply to your letter of March 25, 1986, in regard to the six PCB contaminated transformers at your Port Credit plant. Please be advised that all PCB waste or PCB contaminated wastes must be stored in compliance with the Ontario Regulation 11/82, a copy of which is enclosed for your reference. Out-of-service PCB contaminated transformers are classified as PCB contaminated wastes unless decontaminated by an approved decontamination procedure. Therefore, your proposal to drain the transformers and sell them, is contrary to Ont. Reg. 11/82.

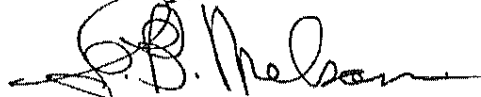
It is likely that the slightly contaminated units (55-56 ppm) could be readily decontaminated, but decontamination of the others may be more difficult, due to the insulation of the windings becoming impregnated with PCB contaminated oil. We strongly recommend that you contact this office by telephone as soon as possible to set up a meeting to discuss the alternatives available to you.

...P/2

In regard to the proposed PCB storage building, please provide a site location plan, as soon as possible, to facilitate a site inspection. Since there is no alternative to on-site storage of PCB wastes at present or in the near future, PCB storage must be regarded as a long-term problem.

Please contact us as soon as possible to set up a meeting.

Yours truly,

A handwritten signature in dark ink, appearing to read "G. B. Nelson", with a stylized flourish at the end.

G. B. Nelson, P. Eng.
District Officer
Halton-Peel District

GEN:cm
encl.

cc: D. Pascoe, Environment Canada
P. Dyson, Ministry of Labour (Mississauga)
Mississauga Fire Dept.
B. Singh
R. Graham



Texaco Canada Inc

1210 Sheppard Ave E
Willowdale
North York Ont M2K 2S8

ONTARIO MINISTRY
OF THE ENVIRONMENT

MAR 27 1986

CENTRAL REGION
OAKVILLE OFFICE

1986-03-25

Ministry of the Environment
1235 Trafalgar Road
Suite 401
Oakville, Ont.
L6H 3P1

Attention: Mr. G.B. Nelson

Subject: **TEMPORARY PCB LIQUID, DRUM STORAGE AREA
PORT CREDIT PLANT**

Dear Sir:

As you are aware, demolition activities are underway within the south property at Texaco Port Credit Plant. In preparation for dismantling of process equipment, an inventory of plant transformers and capacitors was analyzed for polychlorinated biphenyls (PCB's).

This survey revealed that 6 transformer units were contaminated with PCB's above the 50 ppm threshold adopted by your Ministry. Described below are the levels of PCB's in the 6 transformer units.

<u>PCP I.D.</u>	<u>Location</u>	<u>Capacity (Imp.Gal.)</u>	<u>PCB (ppm)</u>
C	Water P.H.	122	2.5×10^4 (2.5%)
E	#2 CSU & RPS	514	56
I	CRU sub	625	123
J	CRU sub	430	146
K	CRU sub	430	55
L	VB sub	430	55

Until your Ministry approves a destruction technique for PCB's, it is Texaco's intention to provide a temporary storage area for this liquid. We plan on using an existing storage building (see attached Drawing No. S6.5-1PC).

~~A contract will be issued to carry out sealing the concrete floor area, installing concrete curbs and entry ramp. The Scope of Work that the contractor will undertake is also attached.~~

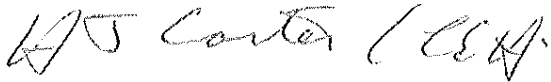
The dilute PCB transformer fluid will be drained and flushed into 45 gallon #16-gauge drums for storage on pallets. The transformers, free of PCB liquid, will then be sold.

We also have 48 capacitors that contain PCB liquids. These units have Environment Canada registration numbers and will be stored intact at the same location. As indicated in Environment Canada's publication "Handbook on PCB's. in Electrical Equipment", the capacitors will be wrapped in a heavy plastic bag and placed into a double bung 45 gallon, #16-gauge drum.

We request your concurrence and the issuance of a site registration number for our temporary PCB drum storage area at your earliest convenience.

If we can supply you with any further information, please let us know, as we would appreciate receiving your written confirmation as soon as possible.

Yours very truly,

A handwritten signature in cursive script, appearing to read "H.J. Carter".

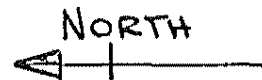
H.J. CARTER
Senior Coordinator
Environmental Protection Division
REFINING DEPARTMENT

CEH:wr

Att.

cc. JLM:WVB

EXISTING
STEEL BLDG.



5" HIGH CONCRETE
CURB ALL AROUND

26'-6"

EXIST. WOOD
PARTITION

EXIST. CONC. SLAB
FLOOR

EXISTING FLOOR TO BE
SEALED & GIVEN (2)
COATS OF "AQUAPON-
POLYAMIDE-EPOXY",
INCLUDING CURES,
- MINIMUM FILM = 6 MILS.

48'-10"

EXIST. EMPTY
STORAGE AREA
7 FT. ABOVE

7'-6"±

RAMP

SLIDING STEEL DOOR WITH LOCK

CAP = 64X205 L. DRUMS + MISC. RELATED MATERIALS

				TEXACO CANADA INC.	
				ENGINEERING DEPARTMENT	
				DON MILLS, ONTARIO	
NO.	DATE	REVISION	BY	EST. NO.	DRAWING NO.
DRAWN	R.B.T.	DATE 86-03-18	TITLE	TEMPORARY- PCB STORAGE AREA	56-5-1 PC
CHECKED	R.B.T.	SCALE N.T.S.	PORT CREDIT PLANT, ONT.		000354

Scope of Work

1.00 General

- 1.01 This "Scope of Work" together with Texaco drawings, specifications and other instructions will serve to provide a detailed description of the work to be done by the Contractor.
- 1.02 Briefly the job consists of installing concrete curbs and entry ramp in an existing abandoned prefab building (commonly known as the "Old Butler Building") which is free standing at the east side of the south plant area. The purpose being, to store, on pallets, 45 gal. drums of diluted PCB liquids and or capacitors containing PCB liquids in a manner that satisfies the requirements of relevant environmental regulations.
- 1.03 The Contractor shall, by mechanical means, rough-up the existing concrete floor in those areas where the curbs and ramps are to be poured to ensure an effective bond. That area of the concrete floor where the access ramps taper to nil it would be advisable to rough-up to a greater degree, approximately 1 1/2" below existing floor elevation to eliminate the need of "feathering" the tapered ramp at this point.
- 1.04 The contractor shall furnish all labour and materials to complete the project.
- 1.05 All reinforcing bars shall be formed and set by Contractor per Texaco drawing. 5/8" dowels may be driven by force into predrilled holes in floor or set in non shrink grout as shown on drawing.
- .06 The entire surface of existing floor slab within the curbed area and eighteen inches (18") beyond shall be thoroughly cleaned and all joints, cracks fissures, and cavities shall be filled with non-shrinking grout leaving a smooth uninterrupted surface.
- 1.07 After curbs and ramps have been poured and have set firm and the enclosed area is smoothed where required with grout, all vertical and horizontal corners should be caulked with non-shrink grout or equal to ensure a seal between curb and floor.
- 1.08 Sandblasting or acid etching shall be used on entire area enclosed by curbs, including top surface of curb, to remove fast dry additives that may be present on surface of concrete.

- 1.09 Two coats of Pittsburgh Paints' - Aquapon Polyamide - Epoxy coating system No. 194-HD shall be applied to the entire treated surface at a rate of 3 Mils minimum dry film per coat. Manufacturer's recommended preparation and application shall be followed closely and the Contractor shall be familiar with the handling of the subject coating system and take all precautionary measures to safeguard property and personnel.
- 1.10 a) It should be noted that the subject abandoned building is regularly inhabited by pigeons and the Contractor shall take proper measures to free the area for the duration of the contract.
- b) New concrete shall have a minimum of 10 days aging period before coating.
- c) Colour shall be platinum gray 97-15.
- d) Generic type: Polyamide - Epoxy, two component. Any deviation from suggested brand name or system herein describe shall first be approved by Texaco Canada Inc.
- e) List of attachments:-
- Drawing P9419-1PC "Temporary PCB Storage Area".
 - Drawing P-4200-62PC "General Arrangement/Property".

Esso Petroleum Canada

107 784
F.Y. AT
Sandy
Computer
Done



1210 Sheppard Ave. E.
North York, Ontario
Canada M2K 2S8

Alexander S. Walter
Manager
Ontario Engineering

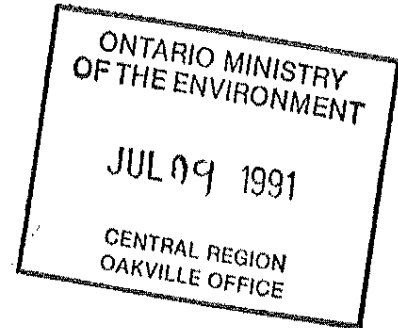
Retail/Commercial Department
Fax: (416) 498-2296

July 8, 1991

PCB STORAGE UPDATE
PORT CREDIT SITE, ONTARIO

File No: 02023

Ministry of the Environment
Halton Peel District
1235 Trafalgar Road, Suite 401
Oakville, Ontario
L6H 3P1



Attention: Mr. John Budz, P. Eng.
Director, Ontario Regulation 11/82

Dear Sir:

This is to update you re PCB Site No. 302-86-A006. We have the following to report in compliance with the 'Director's Instruction' dated March 20, 1991.

1. Two barrels containing fluorescent light capacitors numbered 17 and 18 were transported from the Market Area to the South Property across Lakeshore Road on Tuesday March 26, 1991 and were added to the existing PCB inventory located on the South Property. Mr. Grant Yarro of your office was informed of this procedure and occurrence by telephone.
2. The PCB site inventory aud is attached for your records. This now shows the addition of the two barrels.
3. The ownership of this PCB site is: 172965 Canada Limited, a wholly owned subsidiary of McColl Frontenac Inc.
4. The address of this site is: 10 Mississauga Road South
Mississauga, Ontario.

We trust that this satisfies your requirements. Should you require any further information or an inspection of this site, please contact our site engineer Mr. Bhajan Dosanjh, P. Eng. by calling 278- 5511.

Yours truly,

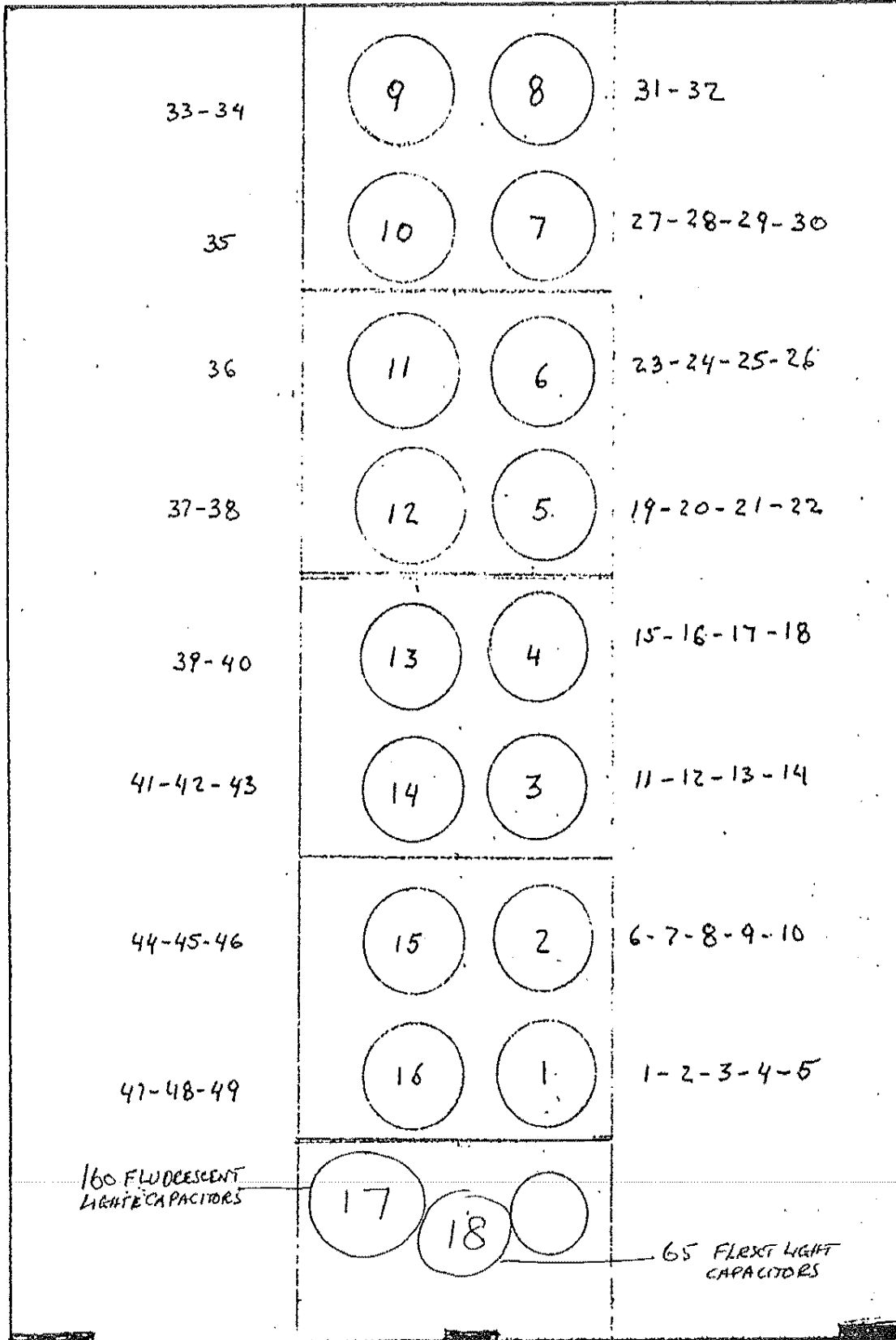
Zia Hasan, P. Eng.
Senior Engineer

cc. B. Dosanjh
N. Giuliani

CAPACITORS STORED IN BARRELS WITH UNIT NUMBER

REFERENCE TO STORAGE RECORD LIST

PORT CREDIT SITE NO 302-86-A006 . 10 MISSISSAUGA ROAD SOUTH
MISSISSAUGA, ONT.



16 ← BARREL NUMBER

1-2-3 CAPACITORS NUMBER

UPDATED MARCH 26, 1991

PCB SITE INSPECTION FORM
(ROUTINE-EXISTING SITES)

MOE REG 11/82 SITE NUMBER: 302 864 006

MOE REG 309 SITE NUMBER: ON 0005201-243D

CORPORATE NAME: ESSO Petroleum CAN.	SITE LOCATION: ESSO Petroleum
CORPORATE ADDRESS: 55 ST. CLAIR AVE. W.	SITE ADDRESS: (DECOMMISSIONING SITE)
POSTAL CODE: M5W-2J8	POSTAL CODE: 10 MISSISSAUGA RD. S. (MISS.)
PHONE NUMBER: 968-8087	PHONE NUMBER: 278-5511
CONTACT: NIGEL GIULIANI - MANAGER	CONTACT: Bhajan S. Dosanjh - SENIOR ENGINEER

PORT CREDIT SITE.

RECEIPT OF REVISED

DIRECTOR'S INSTRUCTIONS LETTER

☒ YES ☐ NO

WHO RECEIVED THE LETTER (NAME AND POSITION) NIGEL GIULIANI

DATE OF LAST INSPECTION: OCT. 11, 1988

1) SECURITY/SITE IDENTIFICATION

IS SITE SECURITY BEING MAINTAINED?

☒ YES ☐ NO

DETAILS OF DEFICIENCIES/SECURITY:

OUTDOOR STORAGE, INTERNATIONAL SHIPPING CONTAINER EAST SIDE OF
 ESSO PROPERTY. PERIMETER FENCE AROUND ESSO PROPERTY, SHIPPING CONTAINER
 LOCKED, 24 HR. SECURITY GUARD.

IS THE SITE PROPERLY SIGNED?

☒ YES ☐ NO

2) CONTINGENCY PLAN

IS THE CONTINGENCY PLAN READILY
 AVAILABLE?

☒ YES ☐ NO

DOES IT HAVE A SIGN-OFF SHEET FOR

AUTHORIZED USERS?

☐ YES ☒ NO

COPY PROVIDED TO FIRE DEPARTMENT?

☒ YES ☐ NO

- 1 -

→ HOWEVER SITE STAFF ASSOCIATED WITH SITE ARE
 AWARE OF PCB HAZARDS.

3) FIRE/SAFETY EQUIPMENT

Page 2

IS FIRE PROTECTION EQUIPMENT
MAINTAINED AND OPERATIONAL?

☒ YES

☐ NO

ARE VENTILATION SHUT-OFF SYSTEMS
MAINTAINED AND OPERATIONAL?

N/A ☐ YES

☐ NO

ARE PERSONNEL PROTECTION AND
SPILL CLEANUP KITS AVAILABLE?

☒ YES

☐ NO

4) CONDITION OF WASTE

ARE ALL WASTES/WASTE CONTAINERS
PROPERLY LABELLED?

☒ YES

☐ NO

ARE WASTES STORED ON PALLETS?

☒ YES

☐ NO

NOTE EXCEPTIONS:

.....
.....
.....
.....

ARE WASTES CONTAINERS SOUND WITH
NO EVIDENCE OF LEAKING?

☒ YES

☐ NO

ARE WASTES ACCESSIBLE FOR
INSPECTION?

☒ YES

☐ NO

IS A CURRENT INVENTORY OF WASTE
STORED READILY AVAILABLE?

☒ YES

☐ NO

DESCRIBE DEFICIENCIES

.....
.....
.....
18 - DRUMS 45 GAL MOST CONTAINING CAPACITORS
OR LIGHTING BALLASTS.
.....

5) GENERAL SITE OPERATION

Page 3

IS THE SITE WELL-MAINTAINED?

(ie: Exterior, floor free of cracks
etc.)

☒ YES ☐ NO

IS THE OWNER'S INSPECTION LOG READILY
AVAILABLE AND UP TO DATE?

☒ YES ☐ NO

NOTE DEFICIENCIES:

.....

.....

.....

.....

ARE ASKARELS SEGREGATED
FROM FLAMMABLES?

n/a ☐ YES ☐ NO

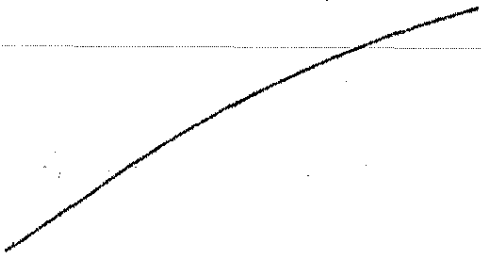
ARE THERE PLANS FOR THE
DESTRUCTION OF WASTE
COMMENTS:


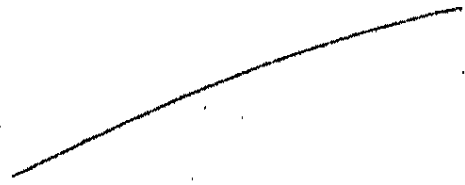
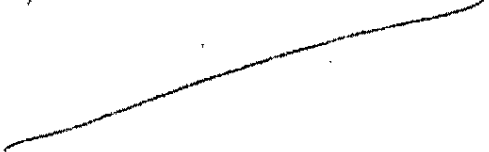
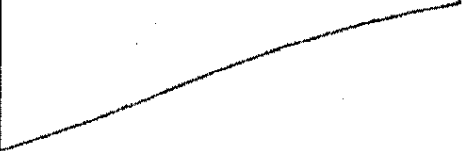
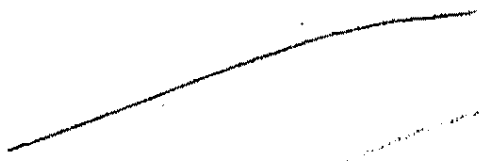
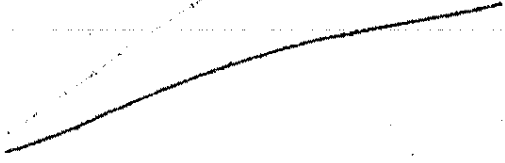
n/a. ☐ YES ☐ NO

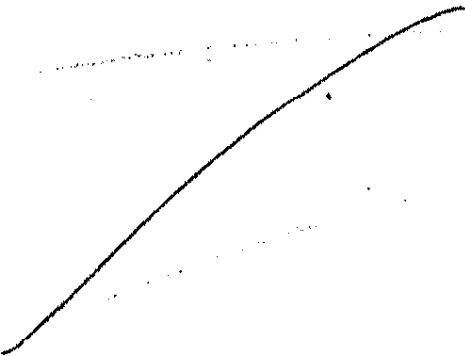
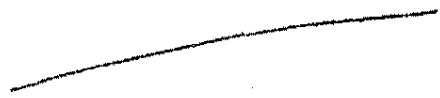

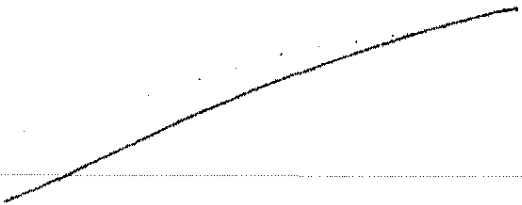
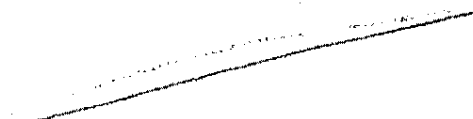
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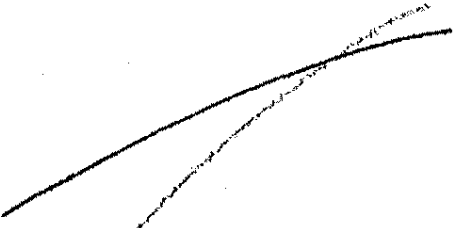
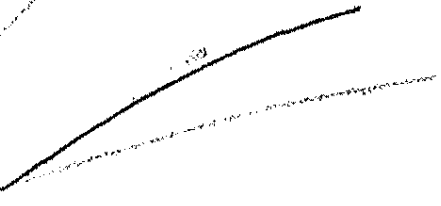
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6) SITE COMPLIANCE

<p>CONDITIONS FOR SITE COMPLIANCE (AS PER REVISED DIRECTOR'S INSTRUCTIONS JUNE, 1991)</p>	<p>OUTSTANDING CONDITIONS/COMMENTS</p>
<p>1. The operation and maintenance of the PCB storage site shall be in strict accordance with the standards specified in the Manual for the Management of Wastes Containing Polychlorinated Biphenyls (PCBs), published by Environment Canada, September 1989.</p>	

<p>CONDITIONS FOR SITE COMPLIANCE (AS PER REVISED DIRECTOR'S INSTRUCTIONS JUNE, 1991)</p>	<p>OUTSTANDING CONDITIONS/COMMENTS</p>
<p>2. No materials other than PCB wastes or PCB related wastes shall be stored at the site at any time.</p>	
<p>3. Under Section 15, O.R. 309, you are required to register as a generator of PCB wastes. If you have not done so, a Generator Registration Report can be obtained from the Ministry of the Environment, District Office, and shall be submitted to the Ministry of the Environment within fifteen (15) days.</p>	
<p>4. A current inventory shall be maintained, both at the site and in the place or facility controlling the site, of all wastes stored at the site in accordance with the form attached.</p>	
<p>5. For those wastes for which a destruction method is commercially available, a timetable for this destruction shall be provided within six (6) months or details justifying the continued storage shall be provided in the annual report specified in Condition 7.</p>	
<p>6. The site shall be inspected by authorized personnel monthly and written records maintained on these inspections indicating inspection date, condition of the wastes and condition of the site. The records shall be signed by an authorized inspector and a copy maintained both at the storage site and in the place or facility controlling the site.</p>	
<p>7. ^{AN} The annual report is to be prepared by January 31 of each year detailing the inventory as of December 31 of the previous year and confirming inspections have been conducted and identifying any site problems and corrective action taken. The report shall be maintained at the place or facility controlling the site.</p>	

<p>CONDITIONS FOR SITE COMPLIANCE (AS PER REVISED DIRECTOR'S INSTRUCTIONS JUNE, 1991)</p>	<p>OUTSTANDING CONDITIONS/COMMENTS</p>
<p>8. All movement of wastes to the storage site shall be subject to the following:</p> <ul style="list-style-type: none"> (i) The movement of off-site wastes into the storage facility requires additional instructions. (ii) an updated, total site inventory shall be provided to the Director within 30 days of the movement as required by Section 4(3)(b) O.R. 11/82. iii) Environment Canada shall be notified in writing of all PCB labelled equipment taken out of service and moved into storage. iv) All transfers of wastes to the storage site shall be done in a manner to minimize any hazard to the health and safety of any person or to the environmental and to minimize the age and quantity of any discharge. 	
<p>9. Access to the site shall be restricted to authorized persons knowledgeable in the contingency plan specified in Condition 10.</p>	
<p>10. A contingency plan shall be prepared, if you have not done so, within three (3) months describing procedures to be followed in the event of a spill or fire. A copy shall be provided to the local fire fighting authority. The plan shall be readily available to all personnel associated with the operation of the site, be maintained at both the site and in the place or facility controlling the site, and shall be provided to Ministry inspectors upon request.</p>	
<p>11. The storage site shall be externally identified with appropriate signs to identify the presence of PCB waste. Appropriate labels shall be maintained on all storage containers to identify contents and concentration (where applicable).</p>	
<p>12. All spills and leaks of PCB wastes shall be reported forthwith to the Spills Action Centre (1-800-268-6060).</p>	

CONDITIONS FOR SITE COMPLIANCE (AS PER REVISED DIRECTOR'S INSTRUCTIONS JUNE, 1991)	OUTSTANDING CONDITON/COMMENTS
13. The site shall be available for inspection by Provincial Officers at all reasonable times and that records kept off-site shall also be made available to Provincial Officers at all reasonable times.	
14. Every person engaged in the handling of PCB's or in charge of, or supervising such handling covered by this instruction shall be responsible for complying with each of these instructions.	

Failure to comply with these conditions is an offence under the Environmental Protection Act.

.../7

6) COMMENTS/RECOMMENDATIONS

..... RECOMMENDATIONS: ENSURE CONDITIONS FOR OPERATION OF
..... RB STORAGE SITE ARE COMPLIED WITH.....
.....
.....
.....

☒ Map
☐ Copy of Inventory
☒ Site Photos

☒ Site diagram
☐ Client Sample Results

Dated this 23RD day of OCTOBER, 1991.

Inspector's Name:

Todd Paylor

(Please Print)

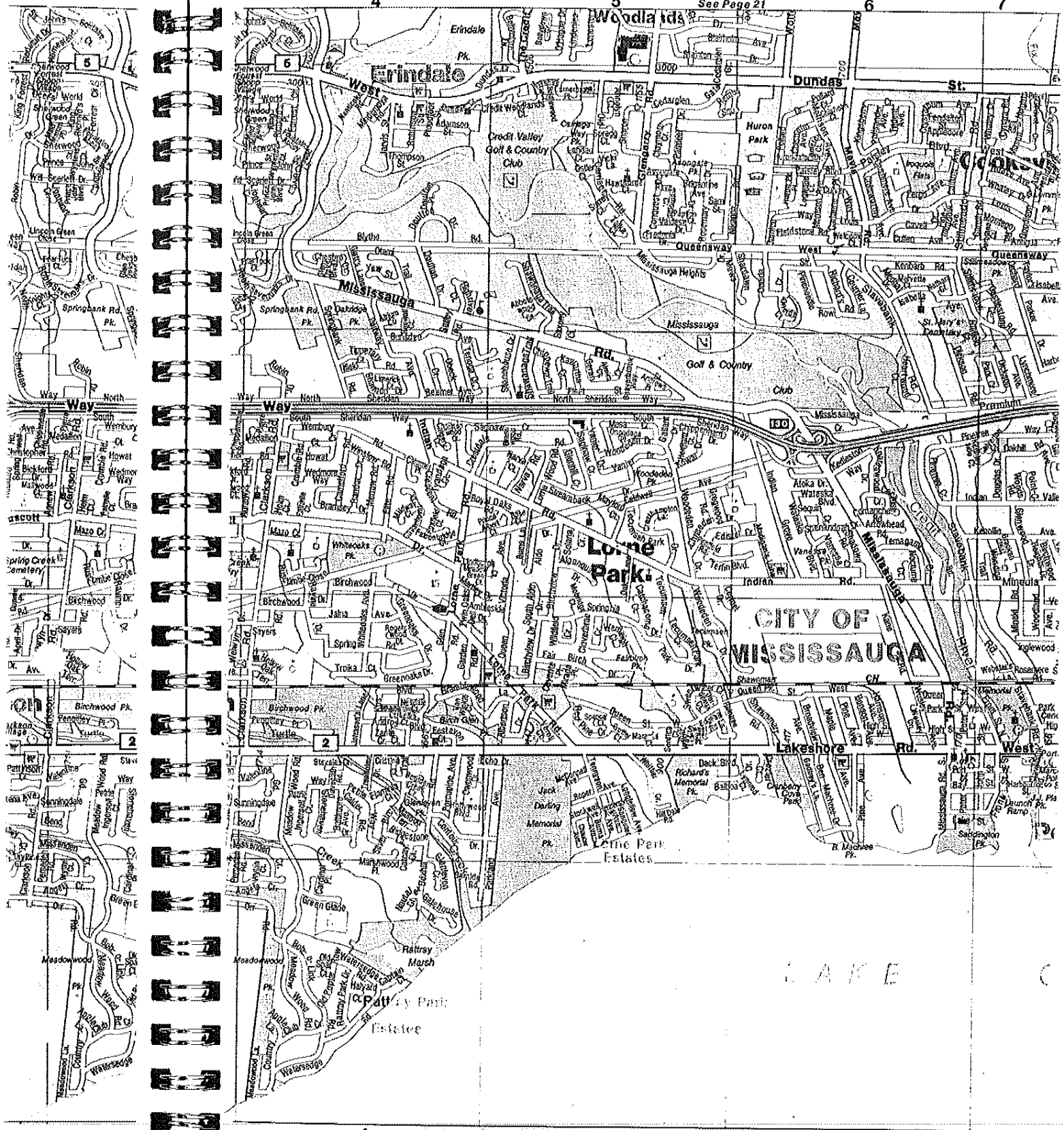
Inspector's Signature:

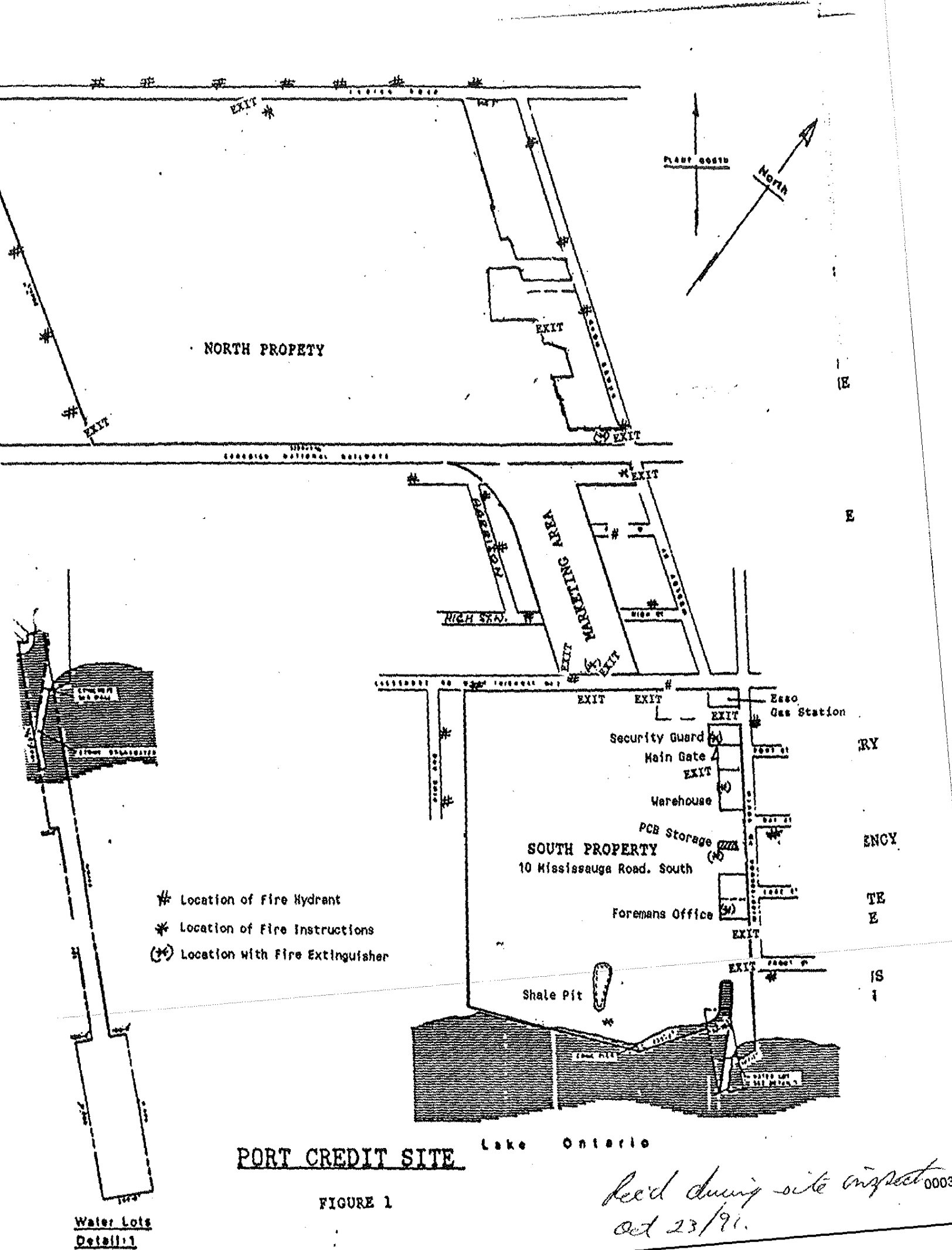
Todd Paylor

Report of a Provincial Officer
Pursuant to the Environmental Protection Act 1971, Section 126

CC: Regional Inspections Unit Supervisor
District Officer, Abatement Section
File

PCB/form
June, 1991





Rec'd during site inspect. 0003
Oct 23/91.

ESSO PETROLEUM CANADA
RETAIL/COMMERCIAL ENGINEERING
PORT CREDIT SITE
10 MISSISSAUGA ROAD SOUTH

EMERGENCY EVACUATION PLAN

IN CASE OF FIRE OR OTHER EMERGENCIES, THE FOLLOWING PROCEDURE IS TO BE FOLLOWED:

1. INFORM THE SECURITY GUARD ON DUTY (STATIONARY) LOCATED AT THE GUARD HOUSE IN PERSON OR BY TWO WAY RADIO CARRIED BY KEY PERSONNEL ON SITE.

* NOTE: AFTER HOURS (5:30 PM TO 7:30 AM) ONLY ONE GUARD IS ON DUTY DURING THE SUMMER MONTHS, WHO MAY BE ON PATROL DUTY. HE/SHE WILL BE REPORTING THE EMERGENCY OR FIRE DIRECTLY UPON DISCOVERY.
2. FIRE STATIONS HAVE BEEN SETUP AT DESIGNATED AREAS (SEE SITE DRAWING). INSTRUCTION FOR ACTIONS TO BE TAKEN IN CASE OF FIRE OR EMERGENCIES ARE POSTED AT THESE LOCATIONS.
3. THE GAURD ON DUTY WILL CALL FIRE DEPARTMENT THROUGH 911 NUMBER AND IN CASE OF A LEAK AROUND PCB STORAGE AREA, THE GUARD WILL CALL "SPILL ACTION CENTRE" AT 1-800-268-6060.
4. GUARD ON DUTY WILL ALSO INFORM PORT CREDIT SITE SUPERVISOR.
5. A GUARD WILL MEET THE FIRE DEPARTMENT OR EMERGENCY RESPONSE PERSONNEL AT EMERGENCY OR FIRE LOCATION.

EVACUATION:

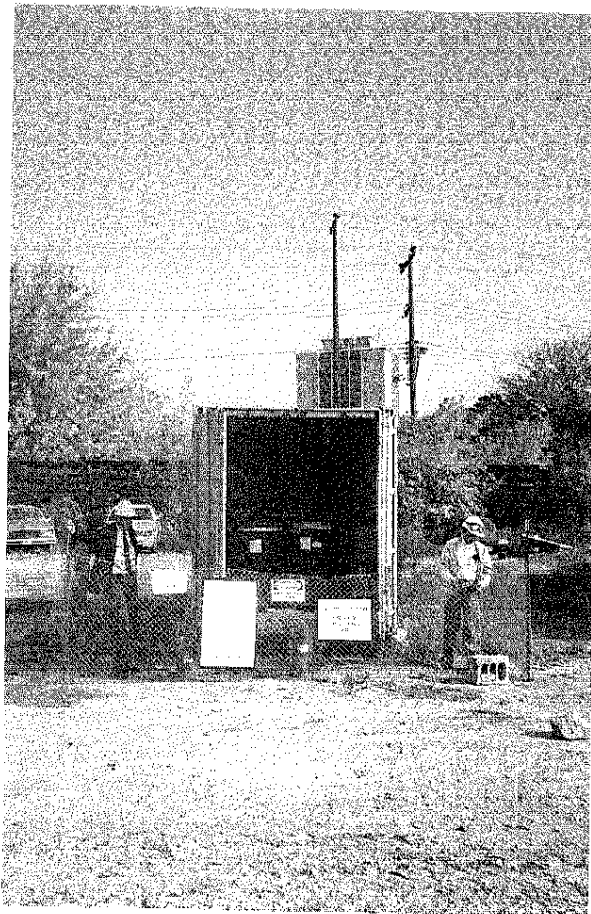
1. WHEN FIRE OR AN EMERGENCY OCCURS, THE GUARD ON DUTY WILL ENSURE THAT EVERY PERSON "ON RECORD" OF BEING ON THE SITE HAS EXITED AND WILL KEEP A HEAD COUNT AND PROVIDE THIS INFORMATION TO THE FIRE DEPARTMENT PERSONNEL RESPONDING TO THE EMERGENCY.
2. THE GUARD ON DUTY WILL ENSURE THAT THE SITE IS SECURED DURING THE EMERGENCY AND NO VISITORS ARE ALLOWED ACCESS TO THE SITE.
3. DURING DAY SHIFT THE PATROLLING SECURITY GUARD WILL DRIVE AROUND THE SITE AND INFORM EVERYONE BY USE OF A HAND BELL AND A BULLHORN TO EVACUATE THE SITE AND EXIT THROUGH A DESIGNATED EXIT.
4. THE THREE PROPERTIES BELONGING TO PORT CREDIT SITE ARE MARKED AS FOLLOWS ON THE ATTACHED SITE DRAWING AND ARE TO BE HANDLED AS SEPARATE SITES IN CASE OF EMERGENCY. COMMUNICATION BETWEEN THE PROPERTIES IS MAINTAINED BY PORTABLE RADIOS CARRIED BY SECURITY GUARDS AND CONTRACTORS KEY PERSONNEL.
 - NORTH PROPERTY: GATE LOCKED AFTER WORKING HOURS
 - MARKET AREA: GATE LOCKED AFTER WORKING HOURS
 - SOUTH PROPERTY: SECURITY GUARD ON DUTY AT ALL HOURS

ESSO PETROLEUM CANADA
RETAIL/COMMERCIAL ENGINEERING
PORT CREDIT SITE
10 MISSISSAUGA ROAD SOUTH

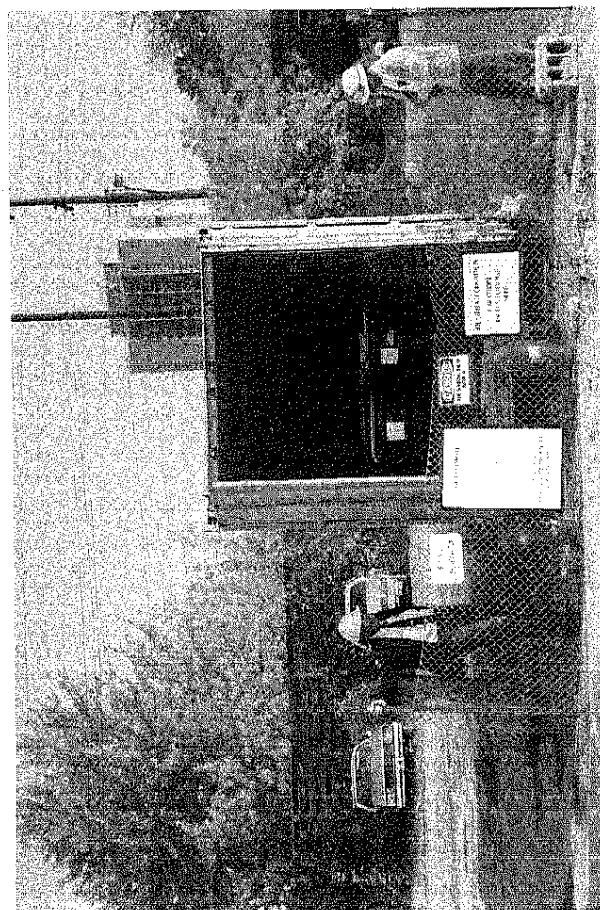
FIRE STATION INSTRUCTIONS

IN CASE OF FIRE OR OTHER EMERGENCY PLEASE:

1. USE FIRE EXTINGUISHERS PROVIDED TO EXTINGUISH ANY SMALL FIRE THAT CAN BE IMMEDIATELY BROUGHT UNDER CONTROL AND REPORT THE INCIDENT IMMEDIATELY TO THE SECURITY GUARD AT THE GUARD HOUSE BY USING MOBILE RADIO OR IN PERSON.
2. GIVE DETAILS OF LOCATION OF FIRE AND YOUR ASSESSMENT OF ITS EXTENT IMMEDIATELY TO THE SECURITY GUARD.
3. IN CASE OF FIRE INSIDE A BUILDING, EVACUATE IMMEDIATELY AND CLOSE ALL DOORS UPON EXITING. MAKE SURE EVERY ONE ELSE IN THE BUILDING AREA HAS EXITED BEFORE CLOSING DOORS BEHIND YOU.
4. EXIT THE SITE IMMEDIATELY AND REPORT AT THE GUARD HOUSE TO SIGN OFF.



Easo Petroleum Oct. 23/91
30286 A006 T. Paylor





Ministry
of the
Environment

Ministère
de
l'Environnement

File
Env (from Texaco) Paul Budit

APPROVALS BRANCH
3rd Floor

250 Davisville Avenue
Toronto, Ontario
M4S 1H2

250, avenue Davisville
Toronto (Ontario)
M4S 1H2

C.E. Hailes
Texaco Canada Inc.
1210 Sheppard Avenue East
North York, Ontario
M2K 2S8


RE: Amendment to Certificate of Approval (Air)
No. 8-3177-89-006 ✓

This letter amends Certificate of Approval No. 8-3177-89-006 to include the installation of the following:

- one (1) boiler, firing No. 2 oil with a maximum thermal input of 880,925 kilojoules per hour, exhausting through a 0.203 metre diameter stack extending 3.0 metres above grade.
- one (1) diesel generator, with a maximum thermal input of 540,000 kilojoules per hour exhausting through a 0.203 metre diameter stack extending 2.7 meters above grade.

all in accordance with an application dated October 17, 1989 by Sanivan Group.

DATED at Toronto this 26th day of October 1989.


T. Armstrong, Director
Section 8, E.P. Act

SC:sm

cc: D. Mourato, Sanivan Group

ENGINEERING ASSESSMENT

File # : 8-3177-89-007
Company Name : Sanivan Group for Texaco Canada Limited
Municipality : Port Credit
Date Received : October 18, 1989
Prepared By : Sean Capstick
Date : October 23, 1989

=====

Proposal

Texaco Canada Limited has contracted Sanivan Group to decontaminate oily shale pit sludge located on Texaco's decommissioned Port Credit Refinery. The proponent Sanivan proposes the installation of a "BIOLYSIS" reactor. The sludge is to be treated to reduce the oil and grease to a minimum of between 2 to 0.5%, reduce the volume 50 - 60 %, remove 95% of the PAH's present and produce a non-hazardous waste. The sludge is high in oil and grease and a few PAH's.

An application for the pilot scale testing plant consisting of three reactors was approved in August of this year. Texaco is, however, unable to provide Sanivan with the required hydro to run the reactors, consequently, Sanivan has not yet started this project and as the cold weather approaches a source of heat will also be required for the reactors. This application is, therefore, for the addition of one diesel generator and one diesel boiler to the existing Certificate of Approval.

JAN 9 1990

CENTRAL REGION
OAKVILLE OFFICE

Assessment

The boiler is a Napanee, model: NIL4244 and is rated at 20 HP and has a reported maximum thermal input of 835 000 BTU/hr. The boiler is rented from Hamilton Boiler Works and will be used to preheat the soil and sludge mixtures prior to processing in the reactors. The boiler exhausts via a 0.203 m diameter stack extending 3.0 m above grade. An emission rate of 0.021 g/s NO_x is predicted for this unit.

The generator is a John Deere, model 6466A and is rated at 150 kW and has a reported maximum thermal input of 511 846 BTU/hr. The generator has been purchased by Sanivan and will be used to supply electricity to the system that can not be supplied by Texaco. The generator exhausts via a 0.127 m diameter stack extending 2.4 m above grade. An emission rate of 0.012 g/s NO_x is predicted for this unit.

The boiler and generator are located on the abandoned Texaco Refinery next to a virtual source approximately 23 m from the closest property line. The total NO_x emissions for the combustion sources is 0.033 g/s. The maximum GLC concentration for NO_x from these sources is estimated to 22 ug/m³, a value less than the 500 ug/m³ standard for NO_x.

The District Office was contacted concerning this application and no objections were raised.

Recommendation

The application is recommended for approval by the issuance of a amendment letter for the existing Certificate of Approval with the previously specified conditions.

AIR RESOURCES BRANCH
APPROVALS RECORD FOR
EMISSION INVENTORY UPDATE

FORM UP-12

☒ 3 Region ☐ ☐ District

Company Name: TERACO CANADA

Source Location: 10 MISSISSAUGA ROAD SOUTH

Contact: C.E. WAILES Telephone: _____

Nature of Business: PETROLEUM MFT

Type of Equipment for Approval: DESL. GENERATORS, BOILER

Combustion	Process	Incineration
New <input type="checkbox"/>	New <input type="checkbox"/>	New <input type="checkbox"/>
Modification <input type="checkbox"/>	Modification <input checked="" type="checkbox"/>	Modification <input type="checkbox"/>

General Description: amendment to CGA # 8-3177-89-006 to supply power & heat

Equipment Production ☐ or Feed ☐ Rate: 1b/hr _____ Quantity/yr: _____

Specify kind of product ☐ or Feed ☐ _____

Control Equipment: none Estimated Efficiency _____

PART A Preliminary Assessment - Regional Office

Type of Application ☐ Simple, complete Part B ☐ Complex, forward to Environmental Approvals Branch

Significant Pollutants
(lb/yr) g/s
SO₂ _____

Application Attached Yes ☐ No ☐ Part _____

Form Initiated By: _____ Date: _____ HC _____

NO_x 0.633

PART B Approval

Application No: 8-3177-89-007 CO _____

Anticipated Completion Date: _____ Other _____

Application Confirmation: Approved ☒ Cancelled ☐ Denied ☐

Comments: _____

Approved By: Sen Capstick Date: Oct 24/89

PART C Air Resources Branch

New Source Logged: _____ Date: _____

Update Requested _____ Date: _____

Date Completed: _____

PART D Installation Check - District Office

☐ Satisfactory ☐ Not operational ☐ Unsatisfactory

Comments: _____

Inspected by: _____ Date: _____



Ontario

Ministry
of the
Environment

Ministère
de
l'Environnement

Certificate of Approval (Air)
Certificat d'autorisation (Air)

Number / Numéro 8-3178-89-006

ONTARIO MINISTRY
OF THE ENVIRONMENT
RECEIVED

Owner/Operator / Propriétaire/exploitant:

Shakell Electric Motor Services
208 Memorial Avenue
Orillia, Ontario
CENTRAL 345-5467

Located at / Situé(e)(s) à:

208 Memorial Avenue
Orillia, Ontario

This approval is for / La présente autorisation s'applique:

the installation of one (1) Bayco, model B8-56, heat cleaning oven that is equipped with two (2) natural gas fired burners each having a maximum heat input of 369,400 kilojoules per hour and exhausting through a 0.254 metre diameter, refractory lined stack that terminates at 4.88 metres above grade,

all in accordance with the drawings, supporting material, reports and the application dated June 22, 1989 and submitted by Shakell Electric Motor Services, subject to the following terms and conditions which are deemed necessary by the undersigned:

Special Terms and Conditions

1. Shakell Electric Motor Services shall maintain the temperature of the secondary chamber of the heat cleaning oven at 760 degrees Celsius when the primary chamber is loaded and the destruction of material is taking place.
2. Shakell Electric Motor Services shall not operate the heat cleaning oven to incinerate chlorinated and fluorinated chemical compounds.

OCT 19 1989

[Signature]

(S. 44)

DATED AT TORONTO this
DATE À TORONTO ce

day of
jour d

October 1989

cc: Chief, Approvals and Planning Unit
Central Region, M.O.E.

/br

[Signature]
Director, Section 8
Environmental Protection Act
Directeur, Section 8
Loi sur la protection de l'environnement

000376

Owner/Operator / Propriétaire/exploitant:

Texaco Canada Incorporated
1210 Sheppard Avenue East
North York, Ontario, M2K 2S8

Located at / Situé(e)(s) à:

10 Mississauga Road South, Port Credit, Ontario

This approval is for / La présente autorisation s'applique:

the installation of a pilot-scale treatment facility to decontaminate
oily shale pit sludge including:

- reactor 1, with a volumetric capacity of 38,675 litres, a height of 7.92 metres, an outside diameter of 2.7 metres and an inside diameter of 1.8 metres, equipped with a blower having a maximum volumetric flow rate of 16.9 cubic metres per minute and exhausting through a 0.6 metre diameter MM-3000 carbon filter, with a maximum flow rate capacity of 21.1 cubic metres per minute, located on top of the reactor approximately 10 metres above grade,
- reactors 2 and 3, each with a volumetric capacity of 38,675 litres, a height of 7.92 metres, an outside diameter of 2.7 metres and an inside diameter of 1.8 metres, equipped with a blower having a maximum volumetric flow rate of 2.82 cubic metres per minute and exhausting through a 0.6 metre diameter MM-3000 carbon filter, with a maximum flow rate capacity of 7.0 cubic metres per minute, located on top of the reactor approximately 10 metres above grade,

all according to correspondence from Texaco Canada Incorporated to the Ministry of the Environment dated July 31, 1989, Correspondence from Sanivan Group to the Ministry of the Environment dated July 11, 1989, application dated June 6, 1989 by Sanivan Group and attachments to the application entitled "Proposal for Pilot-Scale Treatment of Port Credit's Shale Pit Sludges" and "Examples of Calculation of Contaminants Emitted by the Biolysis Process", subject to the special terms and conditions which are considered necessary by the undersigned.

SPECIAL TERMS AND CONDITIONS

- 1) Sanivan Group shall, following the installation of the aforementioned reactors and during the normal course of operations, determine the emission rate of the volatile organic compounds from each reactor by carrying out a stack test according to the United States Environmental Protection Agency VOST method. The stack test shall be carried out by a recognized consultant. A report outlining the procedures and the results of these stack tests shall be submitted to the Regional Director, Oakville Regional Office, Ontario Ministry of the Environment.

DATED AT TORONTO this

DATE À TORONTO ce

15th day of
jour

August 1989

...21

c.c.: Chief, Approvals and Planning Unit
HOE, Central Region

/sb

Director, Section 8
Environmental Protection Act
Directeur, Section 8
Loi sur la protection de l'environnement

000377



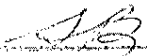
- 2 -

SPECIAL TERMS AND CONDITIONS

- 2) The aforementioned stack test shall be performed on each reactor for one (1) batch run. One (1) stack test will consist of three (3) pairs of absorption tubes exposed under similar conditions. At least one (1) flow measurement must be performed during the test. The flow measurement procedures and instrumentation shall be in accordance with Method 2 of the Ontario Source Testing Code.
- 3) In conjunction to the aforementioned stack testing Sanivan Group shall perform qualitative tests to determine the performance and estimated life expectancy of the aforementioned carbon filters. A report outlining the procedures and the results of these tests shall be submitted to the Regional Director, Oakville Regional Office, Ontario Ministry of the Environment.
- 4) This approval is for pilot testing only, as outlined in the proposal entitled "Proposal for Pilot-Scale Treatment of Port Credit's Shale Pit Sludges", and, therefore, this Certificate shall expire on January 31, 1990.

THIS IS A TRUE COPY OF THE
ORIGINAL CERTIFICATE ISSUED

ON AUG 15 1989





To:

Destinataire:

Texaco Canada Incorporated
1210 Sheppard Avenue East
North York, Ontario, M2K 2S8

You are hereby notified that Conditional Certificate of Approval No. 8-3177-89-006 has been issued to you subject to the conditions outlined therein.

The reasons for the imposition of these conditions are as follows:

- 1) To determine the emission rates of volatile organic compounds from each reactor.
- 2) To determine the life expectancy of the activated carbon filters.
- 3) To limit this installation to proposed pilot-scale operations only and to prohibit this installation from use as a treatment facility without further approval.

You may by written notice served upon me and the Environmental Appeal Board within 15 days after receipt of this Notice, require a hearing by the Board. Section 122a of the Environmental Protection Act, as amended in 1983, provides that the Notice requiring the hearing shall state the portions of each term or condition in the approval in respect of which the hearing is required and the grounds on which you intend to rely at the hearing.

This Notice should be served upon:

The Secretary,
Environmental Appeal Board,
112 St. Clair Ave. West,
5th Floor,
Toronto, Ontario.
M4V 1N3

The Director,
Section 8, E.P. Act,
Ministry of the Environment,
AND 250 Davisville Avenue
Toronto, Ontario.
M4S 1H2

DATED at Toronto this

15th day of August 1989.

THIS IS A TRUE COPY OF THE
ORIGINAL NOTICE MAILED

ON AUG 15 1989

1771

Director,
Section 8, E.P. Act,
Ministry of the Environment.

ENGINEERING ASSESSMENT

File # : 8-3177-89
Company Name : Sanivan Group
Municipality : Port Credit
Date Received : June 26 1989
Prepared By : Sean Capstick
Date : August 3, 1989

=====

Proposal

The proponent proposes the installation of a "BIOLYSIS" reactor on the behalf of Texaco Canada Limited to decontaminate oil shale pit sludge. This application is for a pilot plant to determine the effectiveness of the process. The sludge is to be treated to reduce the oil and grease to a minimum of 1 - 2% and ultimately to 0.5%, it will also reduce 95% of the PAH's present, reduce the volume 50 - 60 % and produce a non-hazardous waste. A total of three tests are proposed with this pilot plant. The sludge is located on Texaco's decommissioned Port Credit Refinery located in Port Credit and is high in oil and grease and a few PAH's.

The process is a batch process and consists of three reactors in series, the sludge is held in one reactor and then flows to the next. The reactors are mixed and aerated by blowers and use bacterial action to biodegrade hydrocarbons present in the sludge. The main differences between this process and the traditional "Activated Sludge" process are the high solids content of the sludge and the air mix reactors that promote an

exothermic reaction and produce a high solids cake. It is similar in the fact that the process does require bacteria from an refinery activated sludge plant to start the reaction.

This pilot plant if successful will be the basis for a full scale application of this process and a new application for Certificate of Approval will be made. Also, heating may be required in the colder months and a diesel boiler is being considered, if required an application for modification to an existing certificate will be made.

Assessment

The air lift reactors are 38 675 l capacity and are 7.92 m high with a ID of 1.8 m and OD of 2.7. Air is provided as a source of oxygen and to mix the sludge. The air will also strip any volatile organic compounds (VOC) from the sludge. VOCs are present in the sludge or are created as a product of the decomposition reactions. The proponent estimates that a maximum of twice the amount of VOC's initially present will be generated. The air is, therefore, exhausted through MM-3000 activated carbon filters located on top of each reactor to reduce the VOC emission to the atmosphere. It is assumed that a minimum of 80 % VOC removal will be achieved with these filters. Benzene is the most critical of these compounds and is present in a concentration of 50 ug/kg, toluene is present at 74 ug/kg and xylene at 510 ug/kg. Each batch is 177 300 kg. The following is the information used to calculate the emission rates;

	Reactor #1 sand + grit removal	Reactor #2 Biolysis	Reactor #3 sludge digestion
Flow Rate (m3/min)	16.9	2.82	2.82
Benzene in exhaust* (ug/m3)	100	500	500
Toluene in exhaust* (ug/m3)	100	400	400
Xylene in exhaust* (ug/m3)	600	2000	2000

* before the carbon filters

Total Emission to Atmosphere per Batch

Benzene	21.09 g
Toluene	17.84 g
Xylene	94.10 g

Total Benzene to Atmosphere

$$3 \times 21.09 \text{ g} = 63.27 \text{ g}$$

The total amount of benzene produced is less than 800 g, the minimum under the present guidelines for benzene, therefore, LAER is not required. Further the components are released over 30 days, the emission rate for any compound over this length of time will be less than 1.0 E-4 g/s . It is not expected that at this emission rate toluene or xylene will exceed POI standards.

The proponent is proposing stack testing to determine both the life of a carbon filter and the actual VOC emission rates. Frequent testing with Drager type tubes will be used to determine

break through. The proponent wishes the MOE to specify the quantitative testing methods to be followed. George Marson was contacted concerning testing and recommended that the US EPA VOST method be used. This was discussed with the proponent and the proponent requested that the testing be limited to one test per reactor on one batch. Each test will consist of three repeats and at least one measurement of the volumetric flow rate. This is a total of 9 analyses. The proponent wishes to minimize costs during this initial trial run but is aware that a more involved testing program will be required for full-scale treatment.

The regional office was contacted concerning this application and no objections were raised.

Recommendation

The application is recommended for a Certificate of Approval with the stack testing conditions specified above.

AIR RESOURCES BRANCH
APPROVALS RECORD FOR
EMISSION INVENTORY UPDATE

FORM UP-12

☒ 3 Region ☐ ☐ District

Company Name: SANIVAN GROUP

Source Location: TEXELO PET CREDIT REFINERY

Contact: DIANA MOURATO Telephone: 514 253 9170

Nature of Business: CONSULTANTS

Type of Equipment for Approval: BIO REACTOR

Combustion	Process	Incineration
New <input type="checkbox"/>	New <input checked="" type="checkbox"/>	New <input type="checkbox"/>
Modification <input type="checkbox"/>	Modification <input type="checkbox"/>	Modification <input type="checkbox"/>

General Description: oily sludge is reclaimed w/ "BIOLYSIS" - Bioreactor, 3 tanks
in series w/ Activated Carbon filter for air emissions

Equipment Production ☐ or Feed ☐ Rate: 1b/hr Quantity/yr:

Specify kind of product ☐ or Feed ☐

Control Equipment: activated carbon Estimated Efficiency 80%

PART A Preliminary Assessment - Regional Office

Type of Application ☐ Simple, complete Part B ☐ Complex, forward to Environmental Approvals Branch

Significant Pollutants (lb/yr)
SO₂
Part
HC
NO_x
CO
Other 63.27g total
Benzene

Application Attached Yes ☐ No ☐

Form Initiated By: Date:

PART B Approval

Application No: 8-3177-89

Anticipated Completion Date:

Application Confirmation: Approved ☒ Cancelled ☐ Denied ☐

Comments:

Approved By: Sean Cepstel Date: Aug 4/89

PART C Air Resources Branch

New Source Logged: Date:

Update Requested Date:

Date Completed:

PART D Installation Check - District Office

☐ Satisfactory ☐ Not operational ☐ Unsatisfactory

Comments:

000384

APPROVALS BRANCH

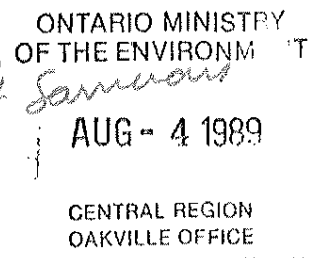
ONTARIO MINISTRY
OF THE ENVIRONMENT
2450

JUL 23 11:10:48

CENTRAL REGION

440-6950

July 21, 1989



Mr. Jacques Fournier
Sanivan Group
1705 3rd Ave
Montreal, Quebec
H1B 5M9

Dear Mr. Fournier:

RE: APPLICATION FOR
CERTIFICATE OF APPROVAL
dated June 22, 1989
Ministry Ref. #8-3177-89
Location of works: 10 Mississauga Rd. South Port Credit Ontario
Description: Oily sludge decontamination system

We acknowledge receipt of your application for the above-mentioned project on June 26, 1989.

The review is to commence upon receiving the following:

- 1) Site plot plan showing property lines and closest critical receptors.
- 2) Letter of authorization from Texaco allowing Sanivan Group to apply for the certificate of Approval.

In order to ensure that your Certificate of Approval can be issued under the correct name, please submit Form 1, 2 or 3 under Ontario Regulation 189 of the Corporations Information Act, or equivalent documentation at your earliest convenience.

Should you have any questions concerning the status of your applications, please contact Mr. Sean Capstick at telephone number (416) 440-6950.

Please quote the Ministry reference number above in any correspondence or enquiries regarding this application.

Yours very truly,

A handwritten signature in cursive script, reading "Franca Shouldice".

Franca Shouldice
Senior Certificate Typist
Administration Section

FS/sg

000385

TAXACO CANADA I.N.C.
PORT CREDIT PLANT CAPACITORS STORAGE RECORD

DATE	EQUIPMENT TYPE	UNIT PLANT #	P.C.B SERIAL #	UNIT, SERIAL #	K.V.R	CAPACITOR SIZE	STORAGE CODE	ORIGIN SOURCE	AUTHORIZATION AND DEPARTMENT
6-4-87	CAPACITOR	1	12206	391B089601	15	3.36 LITRES	BARREL #1	#2 GAS. COMPRESSOR	ALEX. EVANGELIN PLANT. ELECTRIC
6-4-87	CAPACITOR	2	12222	391B089601	15	3.36 LITRES	BARREL #1	#2 GAS. COMPRESSOR	
6-4-87	CAPACITOR	3	12220	391B089601	15	3.36 LITRES	BARREL #1	#2 GAS. COMPRESSOR	
6-4-87	CAPACITOR	4	12221	391B089601	15	3.36 LITRES	BARREL #1	#2 GAS. COMPRESSOR	
6-4-87	CAPACITOR	5	12194	68092185	15	3.36 LITRES	BARREL #1	#2 GAS. COMPRESSOR	
6-4-87	CAPACITOR	6	12219	391B089601	15	3.36 LITRES	BARREL #2	#2 GAS. COMPRESSOR	
6-4-87	CAPACITOR	7	12211	391B089601	15	3.36 LITRES	BARREL #2	#2 GAS. COMPRESSOR	
25-6-87	CAPACITOR	8	12213	391B089601	15	3.36 LITRES	BARREL #2	#2 GAS. COMPRESSOR	
25-6-87	CAPACITOR	9	12212	391B089601	15	3.36 LITRES	BARREL #2	#2 GAS. COMPRESSOR	
25-6-87	CAPACITOR	10	12210	391B089601	15	3.36 LITRES	BARREL #2	#2 GAS. COMPRESSOR	
25-6-87	CAPACITOR	11	12209	391B089601	15	3.36 LITRES	BARREL #3	#2 GAS. COMPRESSOR	
25-6-87	CAPACITOR	12	12208	391B089601	15	3.36 LITRES	BARREL #3	#2 GAS. COMPRESSOR	
25-6-87	CAPACITOR	13	12214	391B089601	15	3.36 LITRES	BARREL #3	#2 GAS. COMPRESSOR	
8-8-87	CAPACITOR	14	12215	68092186	15	3.36 LITRES	BARREL #3	#2 GAS. COMPRESSOR	
8-8-87	CAPACITOR	15	12216	391B089601	15	3.36 LITRES	BARREL #4	#2 GAS. COMPRESSOR	
8-8-87	CAPACITOR	16	12202	391B089601	15	3.36 LITRES	BARREL #4	#1 GAS. COMPRESSOR	
8-8-87	CAPACITOR	17	12204	391B089601	15	3.36 LITRES	BARREL #4	#1 GAS. COMPRESSOR	
17-10-87	CAPACITOR	18	12203	391B089601	15	3.36 LITRES	BARREL #4	#1 GAS. COMPRESSOR	
17-10-87	CAPACITOR	19	12205	391B089601	15	3.36 LITRES	BARREL #5	#1 GAS. COMPRESSOR	
17-10-87	CAPACITOR	20	12193	391B089601	15	3.36 LITRES	BARREL #5	#1 GAS. COMPRESSOR	
17-10-87	CAPACITOR	21	12207	391B089601	15	3.36 LITRES	BARREL #5	#1 GAS. COMPRESSOR	
15-1-88	CAPACITOR	22	12217	391B089601	15	3.36 LITRES	BARREL #5	#1 GAS. COMPRESSOR	
5-1-88	CAPACITOR	23	12218	391B089601	15	3.36 LITRES	BARREL #6	#1 GAS. COMPRESSOR	
5-1-88	CAPACITOR	24	12195	391B089601	15	3.36 LITRES	BARREL #6	#1 GAS. COMPRESSOR	
15-1-88	CAPACITOR	25	12196	391B089601	15	3.36 LITRES	BARREL #6	#1 GAS. COMPRESSOR	

TAKNCO CHIVADA 1.4L
PORT CREDIT PLANT CAPACITORS STORAGE RECORD

DATE	EQUIPMENT TYPE	UNIT PLANT #	P.C.B. SERIAL #	UNIT, SERIAL #	K.V.R	CAPACITOR SIZE	STORAGE CODE	ORIGIN SOURCE	AUTHORIZATION AND DEPARTMENT
20-3-88	CAPACITOR	26	12197	391B089G01	15	3.36 LITRES	BARREL # 6	#1 GAS. COMPRESSOR	ALEX. EVANGEL PLANT. ELECTRIC
20-3-88	CAPACITOR	27	12198	391B089G01	15	3.36 LITRES	BARREL # 7	#1 GAS. COMPRESSOR	
20-3-88	CAPACITOR	28	12199	391B089G01	15	3.36 LITRES	BARREL # 7	#1 GAS. COMPRESSOR	
20-3-88	CAPACITOR	29	12200	391B089G01	15	3.36 LITRES	BARREL # 7	#1 GAS. COMPRESSOR	
20-3-88	CAPACITOR	30	12201	391B089G01	15	3.36 LITRES	BARREL # 7	#1 GAS. COMPRESSOR	
5-4-88	CAPACITOR	31	12189	823C500A47	40	3.96 LITRES	BARREL # 8	550 V MAIN	
5-4-88	CAPACITOR	32	12190	823C500A47	40	3.96 LITRES	BARREL # 8	550 V MAIN	
5-4-88	CAPACITOR	33	12191	823C500A47	40	3.96 LITRES	BARREL # 9	550 V MAIN	
4-5-88	CAPACITOR	34	12192	823C500A47	40	3.96 LITRES	BARREL # 9	550 V MAIN	
4-5-88	CAPACITOR	35	12226	586L427-1	150	33.6 LITRES	BARREL # 10	C.R.U. GAS. CAP.	
4-5-88	CAPACITOR	36	12227	586L427-1	150	33.6 LITRES	BARREL # 11	C.R.U. GAS. CAP.	
4-5-88	CAPACITOR	37	08394	4486629	15	3.3 LITRES.	BARREL # 12	C.R.U. SURGE CAP.	
15-6-88	CAPACITOR	38	08387	N07320203	100	22.4 LITRES.	BARREL # 12	SULPHUR UNIT	
15-6-88	CAPACITOR	39	12225	7210424	150	33.6 LITRES.	BARREL # 13	SULPHUR UNIT	
15-6-88	CAPACITOR	40	08388	7210423	150	33.6 LITRES	BARREL # 13	SULPHUR UNIT	
18-7-88	CAPACITOR	41	08393	55F325A.E	20	5.6 LITRES	BARREL # 14	GAS. SHIP. PUMP N.T.F	
18-7-88	CAPACITOR	42	08892	55F325A.E	20	5.6 LITRES	BARREL # 14	GAS. SHIP. PUMP N.T.F	
18-7-88	CAPACITOR	43	08391	55F325A.E	20	5.6 LITRES	BARREL # 14	OIL SHIP PUMP N.T.F	
18-7-88	CAPACITOR	44	08390	55F325A.E	20	5.6 LITRES.	BARREL # 15	OIL SHIP PUMP N.T.F	
18-7-88	CAPACITOR	45	12223	823C500A.43	25	5.6 LITRES	BARREL # 15	DISTILLATE PUMP	
12-8-88	CAPACITOR	46	08395	1634482	5	1.12 LITRES	BARREL # 15	N.T.F	
12-8-88	CAPACITOR	47		1951860A06	25	2.27 LITRES.	BARREL # 16	N.T.F	
12-8-88	CAPACITOR	48		S-1446426	MF 37.5		BARREL # 16	C.S.U UNIT	
12-8-88	CAPACITOR	49		S-1446426	MF 37.5		BARREL # 16	C.S.U UNIT	



Ministry
of the
Environment

Ministère
de
l'Environnement

Central
Region

Région du
Centre

25 March, 1991

Esso Petroleum Canada
1210 Sheppard Ave. W.
North York, Ontario
M2K 2S8

Att'n: Zia Hason, P.Eng

Dear Zia:

Re: Ontario Regulation 309
Registration of PCB Waste
Site No. 302-86-A006

Suite 401
1235 Trafalgar Road
Oakville, Ontario
L6H 3P1
416/844-5747
416/822-2566

Bureau 401
1235, chemin Trafalgar
Oakville (Ontario)
L6H 3P1
416/844-5747
416/822-2566

Handwritten notes:
N.B. ...
This is a name change to Esso
from Texaco

As per the Ontario Regulation 11/82 Director's Instructions dated March 20, 1991 issued to Esso Petroleum Canada of North York for the movement of PCB waste from 172965 Canada Limited, 250 Lakeshore Rd., Mississauga to Esso Petroleum Canada, Port Credit, Mississauga (Reg. 11/82 Site No. 302-86-A006), Ontario Regulation 309 requires that all generators of subject waste register this waste with the Ministry for each generator site.

Ontario Regulation 309 requires that all generators of waste submit a report concerning this waste to the Ministry. Section 15.(1) states:

15.(1) Every generator shall submit an initial Generator Registration Report in Form 2 to the Director in respect of the waste generation facility and each subject waste he produces, collects, handles or stores or that he is likely to produce, collect, handle or store.

Generators of waste are required to notify the Ministry of any changes affecting their initial report to the Ministry. Section 15.(4) states:

15.(4) Where there is a change from the information submitted in the initial Generator Registration Report or any previous supplementary Generator Registration Reports in respect of name, address, or telephone number, addition of subject wastes or significant change in the description or physical or chemical characteristics of the subject wastes, the generator who submitted the applicable report shall send a supplementary Generator Registration Report to the Director within fifteen days after the change.

Esso Petroleum Canada is requested to register all subject waste (including PCB waste) for the Port Credit, Mississauga site. Failure to comply could result in legal action.



Ontario

Ministry
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Environment

Ministère
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Central
Region

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Centre

- 2 -

Suite 401
1235 Trafalgar Road
Oakville, Ontario
L6H 3P1
416/844-5747
416/822-2566

Bureau 401
1235, chemin Trafalgar
Oakville (Ontario)
L6H 3P1
416/844-5747
416/822-2566

If you have any questions, I may be contacted at (416) 844-5747.

Yours truly,

Neal Bonnor
Environmental Officer
Regulation 309
Halton-Peel District

cc. H. Paar
Regulation 309 Co-ordinator, Central Region

J. Budz
Halton-Peel District Officer



Ministry
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Central
Region

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Centre

1991 06 03

7 Overlea Boulevard
4th Floor
Toronto, Ontario
M4H 1A8
416/424-3000

7, boulevard Overlea
4^e étage
Toronto (Ontario)
M4H 1A8
416/424-3000

Texaco Canada Incorporated
250 Lakeshore Road
Mississauga, Ontario
L5G 1G9

Dear Sir:

Re: PCB Waste Storage Site Number 30286A006

Our records indicate that you are the holder of polychlorinated biphenyl (PCB) waste material.

As you probably are aware, efforts are being made not only in Ontario but across Canada to bring all existing PCB waste storage sites up to current and consistent standards for safe operation and storage.

Accordingly, this letter constitutes Director's Instructions under Ontario Regulation 11/82 (copy enclosed) and is intended to bring the above referenced site in compliance with present standards.

Within sixty (60) days, or such longer time as noted in a specific condition, of this letter, you are required to have your PCB site in compliance with the following conditions.

1. The operation and maintenance of this PCB storage site shall be in strict accordance with the standards specified in the Manual for the Management of Wastes Containing Polychlorinated Biphenyls (PCBs), published by Environment Canada, September 1989, (copy enclosed).
2. No materials other than PCB wastes or PCB related wastes shall be stored at the site at any time.
3. Under Section 15, Ontario Regulation 309, you are required to register as a generator of PCB wastes. If you have not done so, a Generator Registration Report can be obtained from your Ministry of the Environment, District Office and shall be submitted to the Ministry of the Environment within fifteen (15) days.

.../2

11. The storage site shall be externally identified with appropriate signs to identify the presence of PCB waste. Appropriate labels shall be maintained on all storage containers to identify contents and concentration (where applicable).
12. All spills and leaks of PCB wastes shall be reported forthwith to the Spills Action Centre (1-800-268-6060).
13. The site shall be available for inspection by Provincial Officers at all reasonable times and that records kept off-site shall also be made available to Provincial Officers at all reasonable times.
14. Every person engaged in the handling of PCB's or in charge of or supervising such handling covered by this instruction shall be responsible for complying with each of these instructions.

Failure to comply with these conditions is an offence under the Environmental Protection Act.

With respect to records kept off-site the site operator shall notify the Ministry of the location of these records including the contact person, complete address and telephone number.

The issuance of this letter in no way abrogates the applicants legal obligations to take all reasonable steps to avoid violating other applicable provisions of this legislation and other legislation and regulations.

Action taken now to bring your site into compliance does not imply you can not be charged for previous contravention of conditions or the Environmental Protection Act.

These instructions replace any other instructions and revokes all previous instructions issued in respect of this site.

Should you wish to discuss or clarify these requirements, please call the Toronto District Office at (416) 467-3055 and ask for the Regional Inspection Unit.

Yours truly,



Director
Ontario Regulation 11/82

cc: Fire Department
District File ✓
Corporate File; Peterborough
Toronto File; Regional Inspection Unit

File: I:\user...\preinsp.let



Ministry
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Ministère
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Central
Region

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Centre

Suite 401
1235 Trafalgar Road
Oakville, Ontario
L6H 3P1
416/844-5747
416/822-2566

Bureau 401
1235, chemin Trafalgar
Oakville (Ontario)
L6H 3P1
416/844-5747
416/822-2566

1991 03 20

Esso Petroleum Canada
1210 Sheppard Avenue West
North York, Ontario
M2K 2S8

Attention: Zia Hason, P. Eng.

Dear Sirs:

Re: PCB Transfer 302-86-A006

This letter constitutes Director's Instructions under Ontario Regulation 11/82. The transfer of PCB wastes is hereby authorized at the following site (location):

OWNER: 172965 Canada Limited

LOCATION: 250 Lakeshore Road, Mississauga

via the transportation system and routing specified in your proposal dated February 2, 1991, for storage at the site identified as:

OWNER: Esso Petroleum Canada

LOCATION: Port Credit, Mississauga

SITE NO: 302-86-A006

This authorization is subject to the following conditions:

1. All wastes transferred shall be in conformance with the list attached and via the transportation vehicle accepted as per your request of February 27, 1991.
2. The movement of wastes shall take place on or about March 25, 1991, and not later than May 25, 1991, and the Oakville District Office of the Ministry of the Environment shall be notified 24 hours before actual movement occurs.

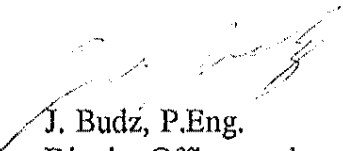
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3. The actual transfer of waste as specified on the list shall be confirmed within 2 days of the transfer being completed to the Oakville District Office of the Ministry of the Environment.
4. The PCB storage site(s) total inventory of wastes stored shall be updated and copies submitted to the Oakville District Office of the Ministry by May 12, 1991.
5. No drums of PCB liquids or materials shall be transported unless they are free from mechanical defects and any spouts replaced with leak-proof bungs.
6. All drums containing liquid shall be in spill trays or in equivalent secondary containment and securely braced on the vehicle to prevent movement during transportation.
7. Solid materials shall be braced to prevent puncturing the containers.
8. The load shall be arranged to take into account the floor strength and centre of gravity.
9. At the destination, the container(s) shall be checked to ensure no leakage has occurred.
10. The driver of the transportation vehicle shall be provided with a copy of these instructions and be apprised of:
 - (a) the nature of the load;
 - (b) the location of emergency equipment and its use;
 - (c) reporting procedures to be followed in the event of an accident.
11. The transfer of wastes to the storage site shall be done in a responsible manner to minimize any hazard to the health and safety of any person or to the environment and to minimize the chance and quantity of any discharge.
12. All spills and leaks of PCB wastes shall be reported forthwith to the Spills Action Centre (1-800-268-6060).
13. In the event of a leak, the vehicle should be stopped, the leak contained, plastic sheeting spread underneath the truck and the vehicle inspected before proceeding. The vehicle shall be decontaminated if required immediately after unloading.
14. The owner and the person having control of the PCB wastes are responsible for the wastes throughout the transportation operations.
15. All transport of wastes shall be in conformity with TDGA and regulations and the DGTA and regulations.

cont'd ...

16. The sites and transportation system shall be available for inspection by Provincial Officers at all reasonable times and that records kept off-site shall also be made available to Provincial Officers at all reasonable times.
17. Every person engaged in the handling of PCB's or in charge of managing or supervising such handling covered by this instruction shall be responsible for complying with each of these instructions.

Yours truly,



J. Budz, P.Eng.
District Officer and
Director Ont. Reg. 11/82

cc: Mr. J. MacLean, Ministry of Labour
Mr. D. Pascoe, Environment Canada/Attn.: Mrs. N. McGill
Mr. C. Clark, DEH, Peel Regional Health Department
Communication Sergeant, Peel Regional Police Department
Chief G.E. Bently, Mississauga Fire Department
Mr. T.L. Julian, City Clerk, City of Mississauga
Mr. G. David Burnett, Technical Analyst, Region of Peel
Mr. Paul Isles, Manager, MOE, Toronto
Mr. Hardy M. Wong, Director, Waste Management Branch
Mr. John Bray, Director, Environmental Approvals Branch
Mr. Brian Howieson, Regional Inspection Unit, Peterborough
Mr. Neal Bonnor, Environmental Officer, Reg. 309

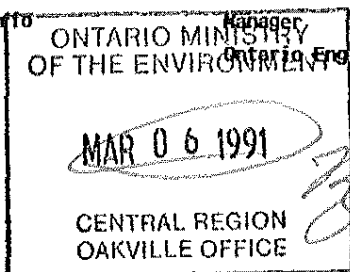
Esso Petroleum Canada

1210 Sheppard Avenue East
North York, Ontario
Canada M2K 2S8

Alexander S. Walter

Retail/Commercial Department

Fax: (416) 498-2296



February 27, 1991

PCB Storage Update
Port Credit Site, Ontario
File No. 02023

Ministry of the Environment
Halton Peel District
1235 Trafalger Road, Suite 401
Oakville, Ontario
L6H 3P1

Attention: Mr. J. Budz, P.Eng.
District Environmental Officer

Dear Sir:

With reference to the MOE file no. 302-86-A006 relating to the PCB storage on Port Credit Site we are submitting the following information to confirm your records:

- 1) The ownership of the property is now held by:
172965 Canada Limited, a wholly owned subsidiary of McColl Frontenac Inc.
- 2) An inventory of PCB capacitors identified by barrel numbers and content stored on the South Property.

In addition, at 250 Lakeshore we have packed two barrels numbered #17 and #18 with the following content.

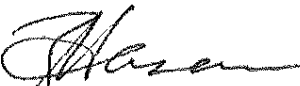
Barrel #17 - contains 160 fluorescent light ballasts (capacitors)

Barrel #18 - contains 65 fluorescent light ballasts (capacitors)

We request your permission to transport barrels #17 and #18 to the existing storage as detailed in item (2) above and add to this inventory.

Please let me know if you require any further information.

Yours truly,


Zia Hasan, P.Eng.
Senior Engineer

143.zh

CAPACITORS STORED IN BARRELS WITH UNIT NUMBER
REFERENCE TO STORAGE RECORD LIST

33-34	9	8	31-32
35	10	7	27-28-29-30
36	11	6	23-24-25-26
37-38	12	5	19-20-21-22
39-40	13	4	15-16-17-18
41-42-43	14	3	11-12-13-14
44-45-46	15	2	6-7-8-9-10
47-48-49	16	1	1-2-3-4-5

16 ← BARREL NUMBER

1-2-3 CAPACITORS NUMBER



Imperial Oil

Products and Chemicals Division

10 Mississauga Road S.
Mississauga, Ontario
Canada L5G 4M6

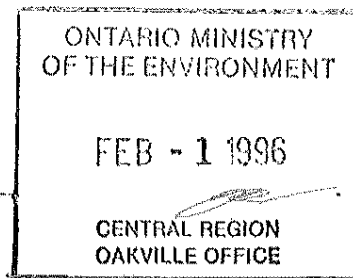
H.F. Wilkinson
Vice President & General Manager
Refining & Supply

Refining & Supply Department

J.R. Lynn
Manager
Refining Services

January 31, 1996

Ministry of the Environment & Energy
Suite 401
1235 Trafalgar Road
Oakville, Ontario
L6H 3P1



Attention: Mr. Todd Paylor, Senior Environmental Officer

Re: **PCB Storage - Site No. 302-86A006**
10 Mississauga Rd. South

Dear Sir:

Pursuant to Director's Instructions under Ontario Regulation 362, as they relate to the subject site, we would hereby submit this report. Condition No. 7 of Director's Instructions, indicates an annual report must be prepared, confirming inspections have been conducted and site problems identified and corrective action taken.

We would confirm at this time that the terms and conditions, as defined under Condition No. 7, have been met during the past twelve months.

Furthermore, I would submit that prior to this report, as discussed during your recent inspection (Jan. 11/96), no annual reports have been submitted, although inspection logs have been kept and maintained at the site. Inspection logs confirm no problems to date.

We trust that this report meets with your satisfaction. In the event you have any questions or comments, please contact me at 905-278-5513.

Yours truly,


Siep Nyholt
Project Coordinator

pcpcbann.doc



Imperial Oil

Imperial Oil
Products and Chemicals Division
10 Mississauga Road S.
Mississauga, Ontario
Canada L5G 4M6

R.S. Hall
Manager
Marketing Services
Engineering Services

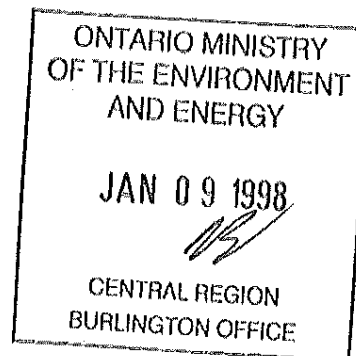
Marketing Department

January 5, 1998

Ministry of the Environment & Energy
1182 North Shore Blvd., East
Burlington, Ontario
L7R 3Z9

Attention: Mr. Todd Paylor, Senior Environmental Officer

Re: Annual Status Report
PCB Storage - Site No. 302-86A006
10 Mississauga Rd. South



Dear Sir:

Pursuant to Director's Instructions under Ontario Regulation 362, as they relate to the subject site, we would hereby submit this report. Condition No. 7 of Director's Instructions, indicates an annual report must be prepared, confirming inspections have been conducted and site problems identified and corrective action taken.

We would confirm at this time that the terms and conditions, as defined under Condition No. 7, have been met during the past twelve months.

We trust that this report meets with your satisfaction. In the event you have any questions or comments, please contact me at 905-278-5513.

Yours truly,

Siep Nyholt
Project Coordinator

pcpcb98.doc

Ministry of
Environment
and Energy

Ministère de
l'Environnement
et de l'Énergie

1182 North Shore Blvd. E.
1st Floor
Burlington ON L7R 3Z9
Tel. (905) 637-4150
Fax (905) 637-4175

1182, boul. North Shore E
8 étage
Burlington ON L7R 3Z9
Tel. (905) 637-4150
Fax (905) 647-4175



March 13, 1997

Esso Petroleum Canada
250 Lakeshore Road
Mississauga, Ontario
L5G 4M6

Attn: Mr. Siep Nyholt

Dear Mr. Nyholt:

Re: PCB Waste Storage/Disposal - 30286A006
File: SI-HP-630

Based on Ministry of Environment and Energy records your company has an active PCB waste storage site.

In Ontario PCB waste is regulated under *Ontario Regulation 362* which requires owners/operators of registered PCB waste sites to manage the waste in accordance with written instructions of the Director. Standard Director's Instructions similar to those issued to your site are intended to ensure the safe and secure storage of PCB waste until disposal options are available.

As you may be aware the options for commercially available PCB waste disposal were limited until several licensed commercial PCB waste facilities located in Alberta and Quebec began receiving waste in April 1996 (information on these sites is enclosed). In addition, the "PCB Waste Export Regulations", announced on February 6, 1997 by Environment Canada, now allow for the export of PCB waste to the United States. The "PCB Waste Export Regulations" prescribe strict environmental controls required for the destruction of PCB waste in the United States. Further information on these regulations may be obtained from Mr. Hamish St. Rose of Environment Canada's Ontario Region Office (tel. 416-739-5865).

In accordance with Director's Instructions issued for your site, please prepare a contingency plan which will allow you to submit a realizable timetable for the disposal of your PCB waste. The submission is to be provided to this office within (60) days of receipt of this letter.

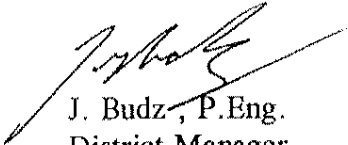
.../2



- 2 -

Should you have any concerns regarding this letter please contact Todd Paylor of this office directly at (905) 637-4153.

Yours truly,

A handwritten signature in black ink, appearing to read 'J. Budz', with a long, sweeping horizontal line extending to the right.

J. Budz, P.Eng.
District Manager
Director, Ontario Regulation 362

JB:TP:sw

Enclosures:

cc: Mr. Bob Krauel, Environment Canada



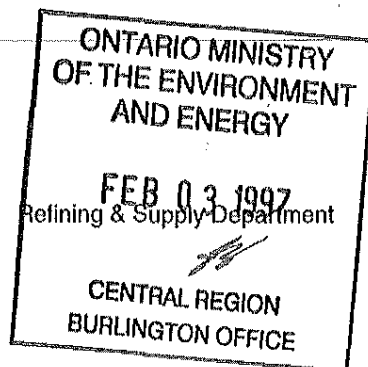
Imperial Oil

Products and Chemicals Division

10 Mississauga Road S.
Mississauga, Ontario
Canada L5G 4M6

H.F. Wilkinson
Vice President & General Manager
Refining & Supply

J.R. Lynn
Manager
Refining Services



January 27, 1997

Ministry of the Environment & Energy
1182 North Shore Blvd., East
Burlington, Ontario
L7R 3Z9

Attention: Mr. Todd Paylor, Senior Environmental Officer

Re: Annual Status Report
PCB Storage - Site No. 302-86A006
10 Mississauga Rd. South

Todd P.
with
file!

Dear Sir:

Pursuant to Director's Instructions under Ontario Regulation 362, as they relate to the subject site, we would hereby submit this report. Condition No. 7 of Director's Instructions, indicates an annual report must be prepared, confirming inspections have been conducted and site problems identified and corrective action taken.

We would confirm at this time that the terms and conditions, as defined under Condition No. 7, have been met during the past twelve months.

We trust that this report meets with your satisfaction. In the event you have any questions or comments, please contact me at 905-278-5513.

Yours truly,


Siep Nyholt
Project Coordinator

pcpcb97.doc

- Groundwater control trenches, with respective recovery wells, have been constructed on the south and east portions of the property to collect groundwater and ensure that contamination does not migrate off-site to either Mississauga Road or Lake Ontario.
- The 2005 groundwater monitoring reports indicated that there is no evidence to believe that the residential properties on the west side of the property had been impacted, as groundwater flows towards Lake Ontario.
- A review of the 2008 monitoring reports does not indicate a change in the conditions at the site. The last monitoring report was received in 2009.
- Since the site is contained and does not pose any environmental concerns to surrounding land uses, including Lake Ontario, the ministry has had minimal involvement with Imperial Oil on this property.
- A portion of the property, adjacent to Lake Ontario, has been developed as a continuation of the waterfront trail.
- The City of Mississauga had once expressed interest in purchasing this property for redevelopment.
- On June 3, 2008, Charles Sousa, then MPP for Mississauga South, organized a meeting at Mississauga City Hall. The meeting was attended by city officials and representatives from the Ministries of the Environment and Municipal Affairs and Housing. The purpose of the meeting was to discuss the matter of brownfield remediation as it affected Mississauga South specifically.
- In January of 2012, the City of Mississauga released a draft Local Area Plan for Port Credit, identifying the former refinery as a "special site" within the study area for which master plans would need to be prepared prior to development. This plan was presented to the city's Planning and Development Committee for its approval.
- On May 9, 2012 the City of Mississauga launched "Inspiration Port Credit". The city website, <http://www.mississauga.ca/portal/residents/inspirationportcredit> states that this project will include public consultation to include the ideas, needs and desires of Mississauga residents, community and business leaders in regards to two waterfront areas in Port Credit, including the former Imperial Oil refinery lands. The focus of this program is to "help to refine the Port Credit vision that blends the needs of the community with the needs of the owners of the land". The program held a community meeting in March 2013 and will be going back out to the public with their draft recommendations in the first quarter 2014 before seeking approval from City council.



Dufresne, Tina (MOECC)10 Mississauga Rd South

From: Dhanji, Jamila (ENE)
Sent: December-06-13 4:24 PM
To: Dufresne, Tina (ENE); Thorsley, Ryan (ENE); Rodrigues, Alison (ENE)
Cc: Spagnuolo, Doreen (ENE)
Subject: FW: Imperial Oil Lands - 10 Mississauga Road South

fyi

From: Randolph, Clinton (ENE)
Sent: December-06-13 4:19 PM
To: Butchart, Jeff (ENE)
Cc: Harten, Jayne (ENE); Therrien, Dean (ENE); Dhanji, Jamila (ENE); DeSousa, Stephanie (ENE)
Subject: RE: Imperial Oil Lands - 10 Mississauga Road South

Jeff,

Central Region provided the following. Let me know if you have follow-up questions.

-Clint

Imperial Oil Lands
10 Mississauga Road South, Mississauga
December 6, 2013

- Imperial Oil owns the 75 acre property, formerly known as the Texaco Port Credit Refinery site, located at 10 Mississauga Road South, Mississauga. The property is bounded by Lakeshore Road to the north, Mississauga Road to the east, Lake Ontario to the south and residential homes to the west.
- The property contained the refinery process units, about 50 storage tanks, a tank car loading area, ship docking and loading facilities and a wastewater treatment plant. The original refinery was built on the property in 1932. In 1957 the refinery was acquired by Texaco. Many of the refinery operations were shutdown in 1978. All other operations ended in 1985. By 1990, all refinery and associated infrastructure were demolished and decommissioned.
- The main soil contaminants include metals as well as oil and grease. Oil and grease levels substantially exceed ministry standards.
- The main contaminants of concern in the groundwater are phenols and benzene. On-site levels of benzene exceed Table 3 standards found in the ministry's "Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act".
- On behalf of the owner, an environmental consultant maintains the groundwater management program for the property which involves monthly inspections of the property, including ensuring that the pump-and-treat system, which was turned off in March 2003, is available if required, based on the semi-annual groundwater monitoring results.

From: Butchart, Jeff (ENE)
Sent: December 5, 2013 11:44 AM
To: @ENE-OD-Issues-unit
Cc: Butchart, Jeff (ENE)
Subject: Imperial Oil Lands Mississauga

Hi OD,

Could I get a note on what is currently under way at the old imperial oil site? Is MOE involved?

Please let me know of Friday

Thanks
Jeff

Jeff Butchart | Issues & Projects Coordinator | Deputy Minister's Office | Ministry of the Environment | 416-314-4648

Rodrigues, Alison (MOECC)

From: Pinto, Carl (MOECC)
Sent: June-24-15 2:41 PM
To: @ENE-4145-North-Service-Road

Jun 19, 2015 | Vote 0 0

Refining brownfields redevelopment on the old Texaco site

Three decades after the Texaco refinery shut down, leaving ugly piles of uprooted landscape and a gaping tear in the psyche of Port Credit, it looks like something might finally happen on the land.

Emphasis on "looks like."

At a meeting last week, Imperial Oil executive Ed Charlton told residents he had "hot-off-the-press news" on the waterfront void that stretches south of Lakeshore Rd. from Mississauga Rd. west to Pine Ave. S.

A full-blown environmental site assessment has produced "the most extensive site characterization ever" of the amount of contamination on the property.

Whetting our appetites for the big announcement to come, Charlton told residents at Clarke Hall for the latest round of Inspiration Port Credit meetings that the environmental damage is "not quite as bad as we thought."

And you've got to think it was pretty bad after the former Port Credit brickyard site was used for petrochemical processing for 63 years, with Texaco running it from 1959-85 before Imperial Oil bought it five years later.

Ongoing groundwater sampling taken around the perimeter of the 36-hectare (88-acre) property shows "all the contamination is contained onsite" Charlton said.

You can hardly blame Imperial for being short on details on a project where avoiding liability still remains the number 1 concern, and likely will remain so, for years to come.

The revelatory news Charlton referred to was that, in order to minimize both liability and the huge costs of remediation, there's going to be a new-to-Mississauga process used for this long-awaited brownfield conversion.

Rather than removing all the contaminated soil and replacing it with clean material, then building a new development as happened when the Texaco tank farm was converted into the Watercolours subdivision and the head office complex north of Lakeshore was transformed into the Credit Landing plaza, the two processes will be combined.

Rather than "digging the hole two times," Imperial and its soon-to-be-found partner (a request for proposal goes out this month) will do the remediation and redevelopment simultaneously. That's how it's largely been done on the Toronto waterfront.

"We hope to pre-qualify two or three candidates soon that we think can actually pull this off," Charlton said, "then do a master plan."

Based on the feedback it's received from the public, the City will provide a "framework" for that master plan that includes mid-rise housing (likely 4-12 storeys with the higher buildings in the centre of the development) campus-type uses and a variety of open spaces, including the possibility of a major park along the waterfront.

"Maximizing open space is key," planner Ruth Marland, who leads the project for the City, said. "This community should be unique, family-friendly and nature friendly."

The new community aspires to be walkable and transit-supported and should integrate "the spectacular with the sustainable."

"Let's use the vision to drive the agenda for this site," Marland said, summing that approach in the slogan "Big Site, Big Legacy."

(Imperial's version of that is Big Site, Big Liability.)

Remediation costs have dropped, real estate values have risen and the Texaco/Imperial lands are finally inching towards development, something that once looked as improbable as Hazel McCallion's retirement.

Unusual sites call for unusual processes.

Normally, you'd want to have a pretty good idea of which land uses are going where in any neighbourhood before you let anyone start digging.

But given the prolonged dormancy of this blot on the City's waterfront, any progress on Perspiration Port Credit is welcome progress indeed.



Carl Pinto
Investigator (#1025)
Investigations and Enforcement Branch
Central Region
Ministry of the Environment and Climate Change
4145 North Service Road, Suite 300
Burlington, Ontario
L7L 6A3
Tel. 905 319-3275
Cell 416 606-1826
Fax 905 319-9902
carl.pinto@ontario.ca

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BARENCO

Environmental Engineering
& Site Remediation Services

20 Years
of Innovation

MINISTRY OF THE ENVIRONMENT
January 30, 2008

FEB 04 2008 AR 7 Feb 08

HALTON PEEL
DISTRICT OFFICE

Ministry of the Environment
Halton-Peel District Office
4145 North Service Road, Unit 300
Burlington, Ontario
L7L 6A3

Attention: Ms. Alison Rodrigues

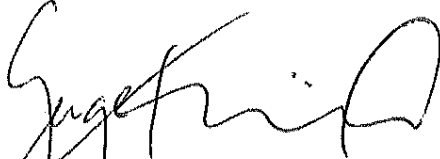
Dear Ms. Rodrigues:

As per your request, Barenco is pleased to submit one bound copy of each of the following reports:

- *Semi-Annual Ground Water Assessment and Management Update — 10 Mississauga Road South, Mississauga (Port Credit), Ontario, dated January 30, 2008*
- *Semi-Annual Ground Water Assessment and Management Update — 250 Lakeshore Road West, Mississauga (Port Credit), Ontario, dated January 30, 2008.*

If you have any questions, please give me a call.

Yours very truly,
BARENCO INC.



George Kirchmair
Chemical Engineer, Principal

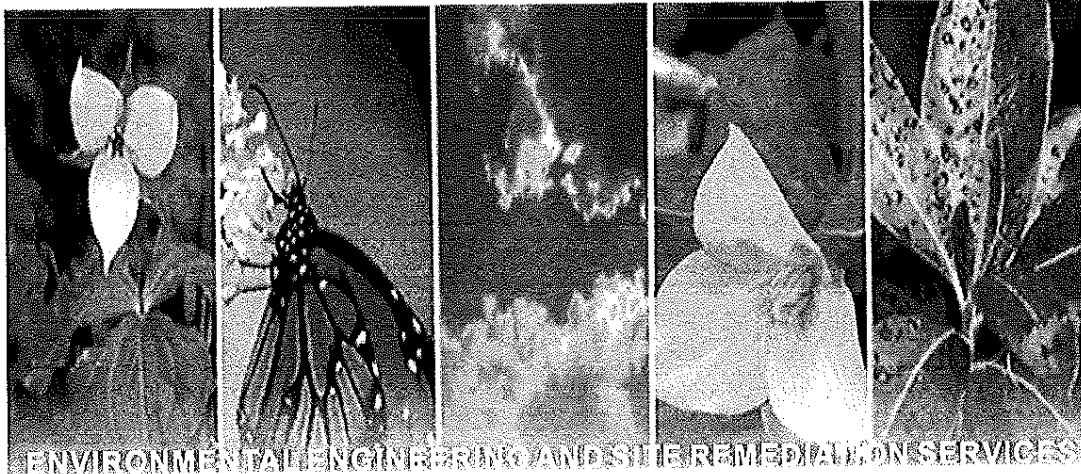
Enclosure

cc: Zia Hasan, Imperial Oil

Professional Engineers
Ontario



APGO
ASSOCIATION OF PROFESSIONAL GEOLOGISTS OF ONTARIO



ENVIRONMENTAL ENGINEERING AND SITE REMEDIATION SERVICES

BARENCO INC.

Semi-Annual Ground Water Assessment and Monitoring Update

10 Mississauga Road
Mississauga (Port Credit), Ontario
January 30, 2008

For

Imperial Oil

90 Wynford Drive
Don Mills, Ontario
M3C 1K5

By

BARENCO INC.

P. O. Box 295

2561 Stouffville Road, Suite 202

Gormley, Ontario

L0H 1G0

Telephone (905) 887-6661

MINISTRY OF
ENVIRONMENT
FEB 04 2008
HALTON PEEL
DISTRICT OFFICE

02150

"These documents and the information contained therein are confidential, property of Imperial Oil and any disclosure of same is governed by the provisions of each of the applicable provincial and territorial freedom of information legislation, the Privacy Act (Canada) 1980-81-82-83, c.111, Sch. 11 "I", and the Access to Information Act (Canada) 1980-81-82-83, c.111, Sch. 1 "I", as such legislation may be amended from time to time."

THIS REPORT CONTAINS PROVISIONS LIMITING LIABILITY, THE SCOPE
OF THE REPORT AND THIRD PARTY RELIANCE

TABLE OF CONTENTS

1.0	SCOPE OF WORK	1
2.0	MAINTENANCE AND OPERATIONS	1
3.0	SEWER DISCHARGE AGREEMENT	1
4.0	SITE CONDITION STANDARDS	2
5.0	GROUND WATER MONITORING AND SAMPLING	3
6.0	LIMITATIONS OF LIABILITY, SCOPE OF REPORT, AND THIRD-PARTY RELIANCE	4

LIST OF FIGURES, TABLES, APPENDICES

Figure 1	Locality Plan
Figure 2	Concentration of Dissolved Benzene in Overburden Ground Water (μ/L)
Figure 3	Regression Analysis, Benzene Concentration - BH90-208
Figure 4	Regression Analysis, Benzene Concentration - BH92-311
Figure 5	Regression Analysis, Benzene Concentration - BH92-310
Figure 6	Regression Analysis, Benzene Concentration - Recovery Well C
Tables 1 - 51	Ground Water Chemical Analysis-BTEX Parameters
Appendix A	Quality Management, Control and Assurance
Appendix B	Region of Peel-Sanitary Sewer Discharge Volume Notification and Sewer Use Agreement
Appendix C	Laboratory Certificates of Analysis

1.0 SCOPE OF WORK

Barenco Inc. was retained by Imperial Oil to conduct semi-annual site monitoring of the property at 10 Mississauga Road South, Mississauga (South Property). A locality map is provided as Figure 1.

The ground water monitoring program involves:

- Monthly inspection of the South Property grounds and ground water pump and treat equipment.
- Maintenance of the ground water pump and treat equipment as required.
- Semi-annual (April and October) monitoring and sampling of selected ground water monitors, including reporting of the results.

*April/Oct
Semi-annual
monitoring
& sampling*

The sampling results presented in this report (both current and past sampling data) are evaluated for evidence of natural attenuation as part of the long term monitoring program. All work was conducted following the Quality Management, Control and Assurance procedures outlined in Appendix A.

Barenco performed these ground water sampling activities in accordance with generally accepted professional practices. Subject to this standard of care, Barenco makes no express or implied warranties regarding its services and no third-party beneficiaries beyond those identified above are intended. Limitation of liability, scope of report and third-party reliance are outlined in Section 6.0 of this report.

2.0 MAINTENANCE AND OPERATIONS

As discussed in previous semi-annual ground water assessment reports, the pump-and-treat system was turned off on March 5, 2003, and, to date, has not been restarted. Currently, the electrical power to the site is turned off at the main breaker, and the pump-and-treat system is turned off and is being maintained in a standby mode. The ground water pumps were removed from the wells, inspected, cleaned, and serviced as required.

*P+T
off
March 5/03*

3.0 SEWER DISCHARGE AGREEMENT

As per the terms of the sanitary sewer use agreement, the sewer discharge volume must be reported to the Region of Peel within two weeks of the end of each calendar quarter. The discharge volumes from the pump-and-treat system to the sanitary sewer for the second and third quarters of 2007 were both 0.0 m³. The notification letters to the Region of Peel are attached in Appendix B.

Copies of a letter with the VOC limits amending the Region of Peel By-law 90-90 and the current sewer use agreement, that expires on January 1, 2009, are provided in Appendix B.

4.0 SITE CONDITION STANDARDS

Ontario Regulation 153/04 under Part XV.1 of the *Environmental Protection Act* is intended for the assessment and restoration of sites in Ontario. Regulation 153/04 provides generic remediation standards based on property use (agricultural, residential/parkland/institutional or industrial/commercial/community), ground water condition (potable or non-potable), soil texture (coarse or medium and fine textured) and restoration depth (full or stratified restoration).

Regulation 153/04 also provides alternate methods for assessment and remediation based on either restoring soil and ground water to background conditions or the use of a risk assessment. Generic standards for both soil and ground water are outlined in a document entitled *Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act*.

For the purpose of selecting specific site condition standards, it is assumed that the site is not a potentially sensitive site. The conditions required to have a site classified as a potentially sensitive site have not been fully investigated by Barenco. Grain-size testing has not been performed at the site. Therefore, the most stringent coarse-grain standards are used for comparison with analytical results. Based on field observations, it is possible that the fine/medium standards would be applicable if grain-size testing were performed. These standards are also provided with the analytical data for comparison purposes.

30m from
water
body?

For the purpose of this monitoring report, the subject site is classified as having a non-potable ground water condition and coarse textured soils. Therefore, the generic site condition standards outlined in the Ministry of the Environment (MOE) Table 3 Standards are appropriate for evaluating subsurface environmental conditions at this site.

Based on information obtained during the ongoing ground water monitoring program, the contaminant of concern is benzene.

Benzene

5.0 GROUND WATER MONITORING AND SAMPLING

39 MW
5 RW

Thirty-nine ground water monitors and five recovery wells were monitored and sampled on October 9 to 12, 2007.

Prior to sample collection, ground water depths in each sampled monitor were measured with a Solinst 122 Interface Meter. No free product was observed during monitoring (or sampling). The ground water depths in metres below grade (unless otherwise noted) for the monitors are listed in Tables 1 through 51. Where monitor elevation data are available, ground water elevation data are also presented.

Ground water samples were collected with dedicated bailers or Waterra tubing and placed in laboratory-prepared prelabeled glass vials (ensuring zero headspace) and sealed. All ground water samples were collected following the procedures outlined in the Ministry of the Environment's document titled *Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario*.

Fifty-two samples (including five duplicates, one field blank, one trip blank, and one trip spike) were submitted to Maxxam Analytics, a laboratory certified by the Canadian Association for Environmental Analytical Laboratories (CAEAL), for analysis of benzene, toluene, ethylbenzene and xylenes (BTEX).

The locations of the ground water monitors with the current concentrations, previous (or last sampled) concentrations, and the historical high concentrations for dissolved benzene are shown in Figure 2. The current and historical laboratory analytical results for BTEX, along with the appropriate MOE Table 3 Standards, are listed in Tables 1 through 51.

Maxxam Analytics laboratory Certificates of Analysis, with the completed chain of custody forms attached, for the current monitoring and sampling event are included in Appendix C.

All of the ground water samples met the MOE Table 3 Standards for coarse textured soils for all parameters analysed except for the sample from recovery well C. The concentration of benzene in this sample (32,000 µg/L) exceeded the MOE Table 3 standard of 1900 µg/L.

The current benzene concentration data were used to create the 1900 µg/L and 12000 µg/L isopleths shown in Figure 2. Data from monitors and recovery wells that have had benzene exceedances (BH90-208, BH92-310, BH92-311 and recovery well C) were used to create the benzene concentration trend graphs shown in Figures 3 to 6.

6.0 LIMITATIONS OF LIABILITY, SCOPE OF REPORT, AND THIRD-PARTY RELIANCE

This report has been prepared and the work referred to in this report has been undertaken by Barenco Inc. for Imperial Oil. It is intended for the sole and exclusive use of Imperial Oil, its affiliated companies and partners and their respective insurers, agents, employees and advisors (collectively, "Imperial Oil"). Any use, reliance on or decision made by any person other than Imperial Oil based on this report is the sole responsibility of such other person. Imperial Oil and Barenco Inc. make no representation or warranty to any other person with regard to this report and the work referred to in this report and they accept no duty of care to any other person or any liability or responsibility whatsoever for any losses, expenses, damages, fines, penalties, or other harm that may be suffered or incurred by any other person as a result of the use of, reliance on, any decision made or any action taken based on this report or the work referred to in this report.

The investigation undertaken by Barenco Inc. with respect to this report and any conclusions or recommendations made in this report reflect Barenco Inc.'s judgement based on the site conditions observed at the time of the site inspection on the date(s) set out in this report and on information available at the time of preparation of this report. This report has been prepared for specific application to this site and it is based, in part, upon visual observation of the site, subsurface investigation at discrete locations and depths, and specific analyses of specific chemical parameters and materials during a specific time interval, all as described in this report. Unless otherwise stated, the findings cannot be extended to previous or future site conditions, portions of the site which were unavailable for direct investigation, subsurface locations which were not investigated directly, or chemical parameters, materials or analyses which were not addressed. Substances other than those addressed by the investigation described in this report may exist within the site, substances addressed by the investigation may exist in areas of the site not investigated and concentrations of substances addressed which are different from those reported may exist in areas other than the locations from which the samples were taken.

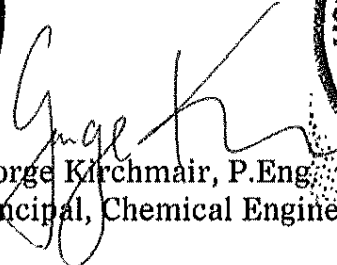
If site conditions or applicable standards change or if any additional information becomes available at a future date, modifications to the findings, conclusions and recommendations in this report may be necessary.

Other than by Imperial Oil, copying or distribution of this report or the use of or reliance on the information contained herein, in whole or in part, is not permitted without the express written permission of Barenco Inc. Nothing in this report is intended to constitute or provide a legal opinion.

Respectfully submitted,
BARENCO INC.



Viktor Kopetsky, P.Eng.
Environmental Engineer



George Kirchmair, P.Eng.
Principal, Chemical Engineer



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BARENCO

FIGURES



SCALE:

1:25000

BARENCO

SOURCE:

MAPART



LOCALITY PLAN

FIGURE

1

10 MISSISSAUGA ROAD SOUTH
PORT CREDIT, ONTARIO

BARENCO JOB NUMBER: 02150

DATE: MAY 2007

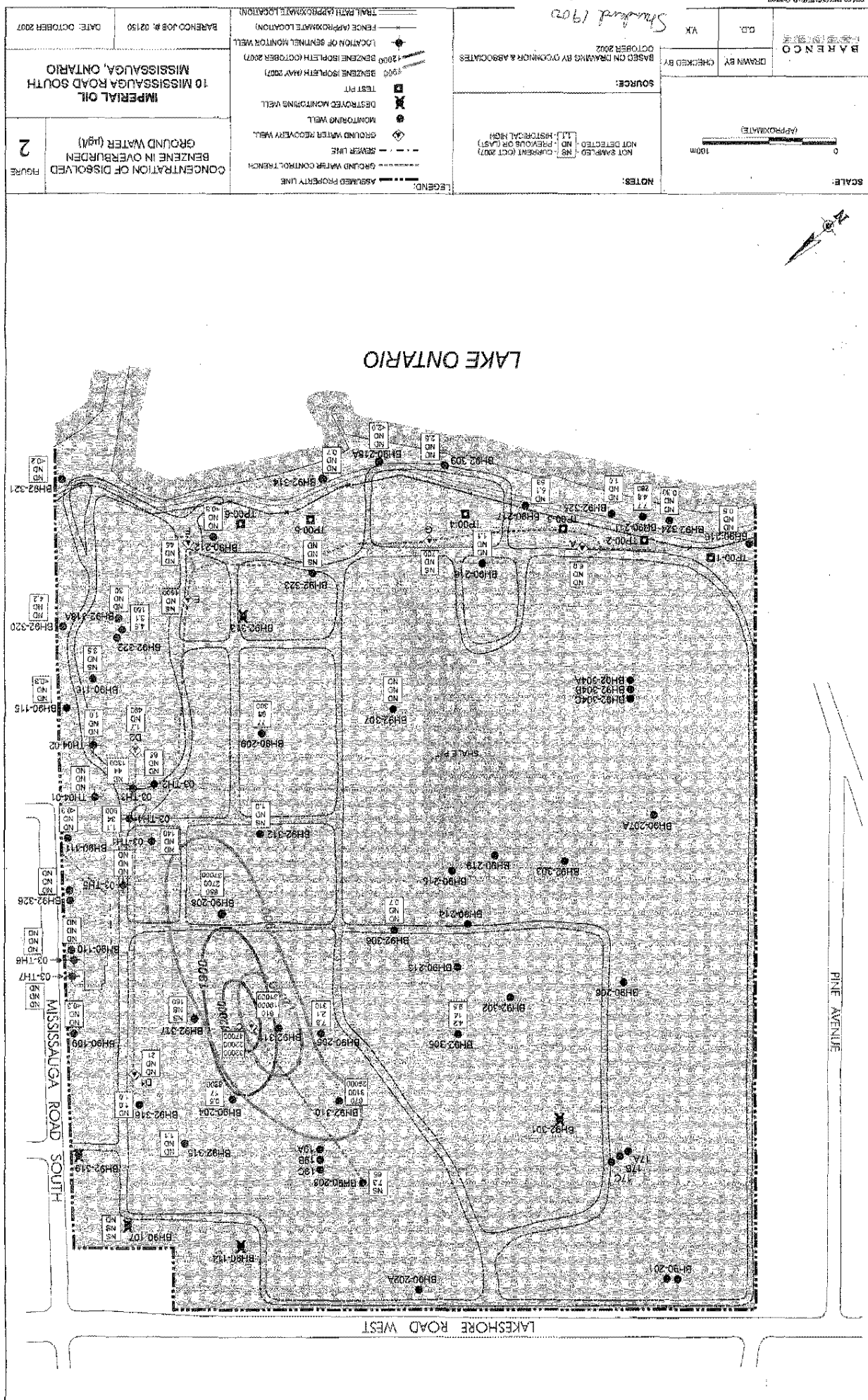


Figure 3: Regression Analysis Benzene Concentration

Sample Location: BH90-208

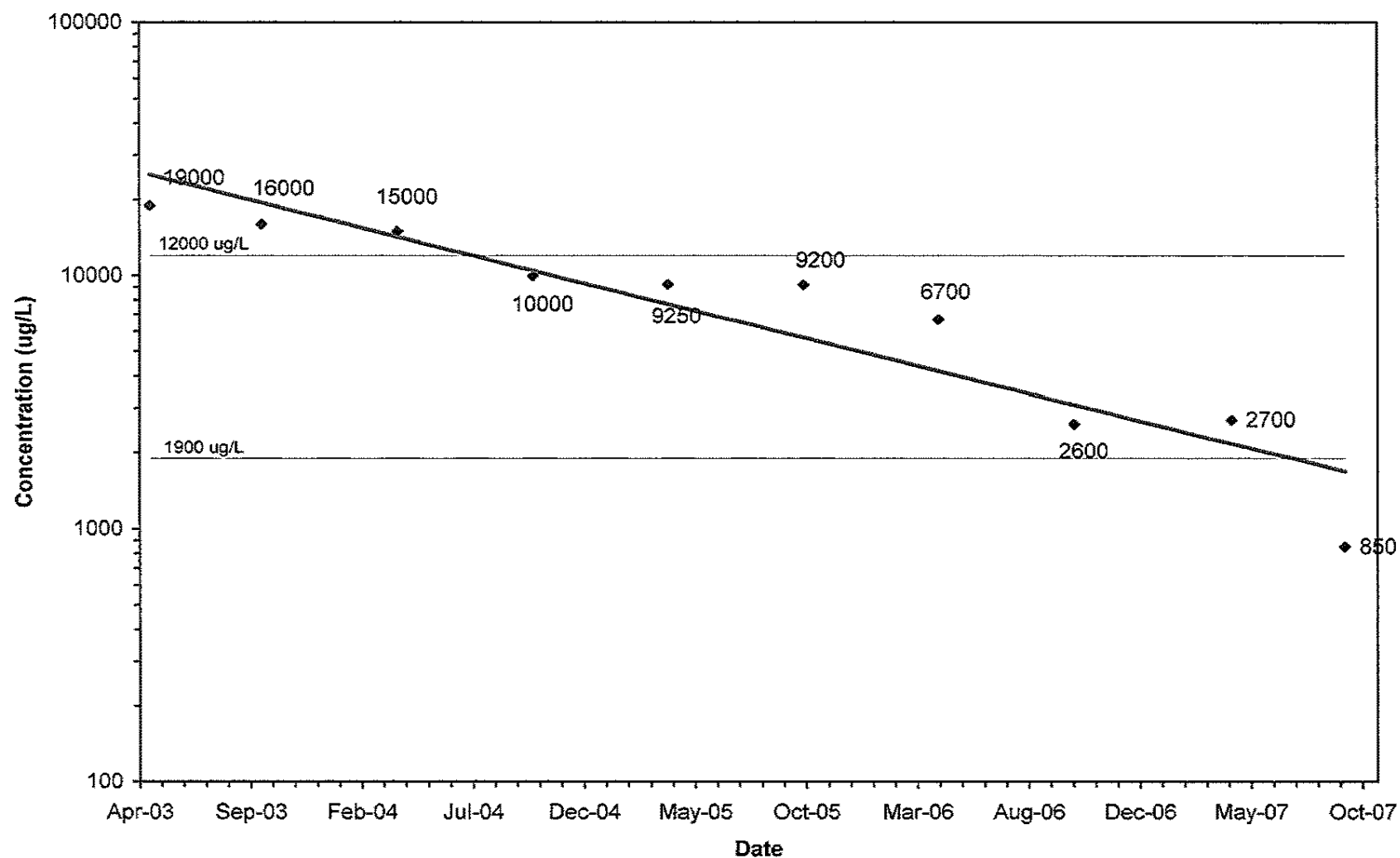


Figure 4: Regression Analysis Benzene Concentration

Sample Location: BH92-311

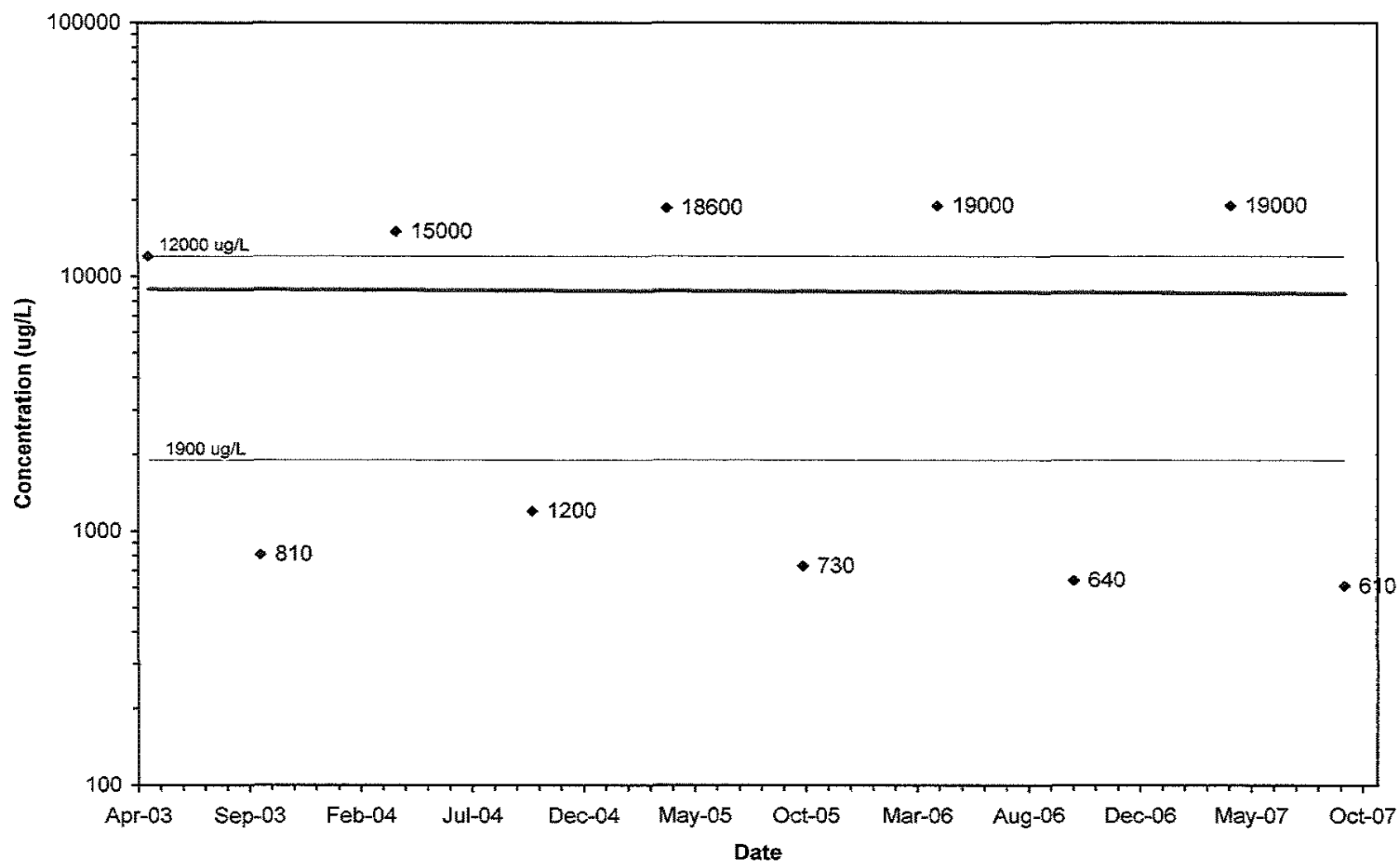


Figure 5: Regression Analysis Benzene Concentration

Sample Location: BH92-310

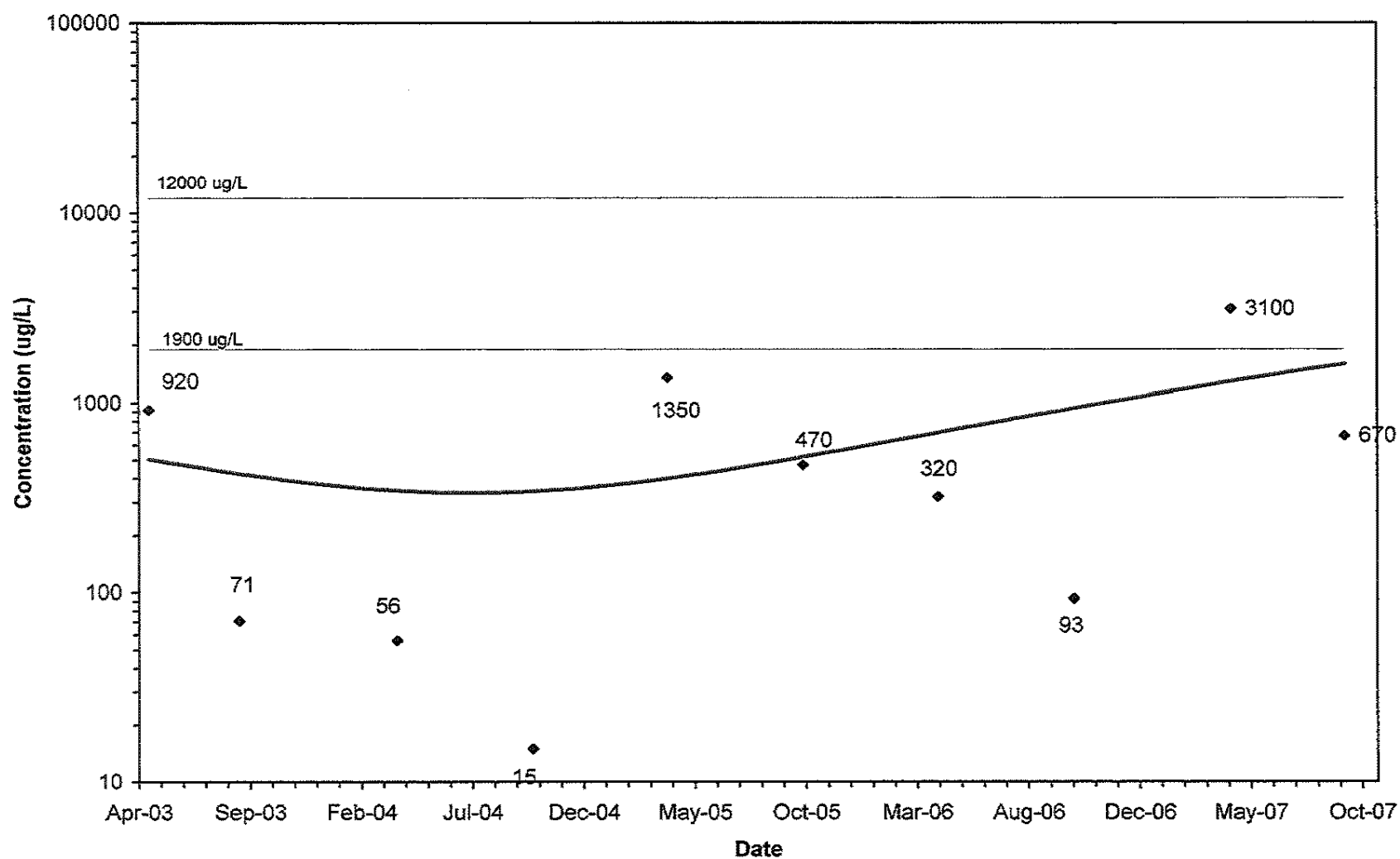
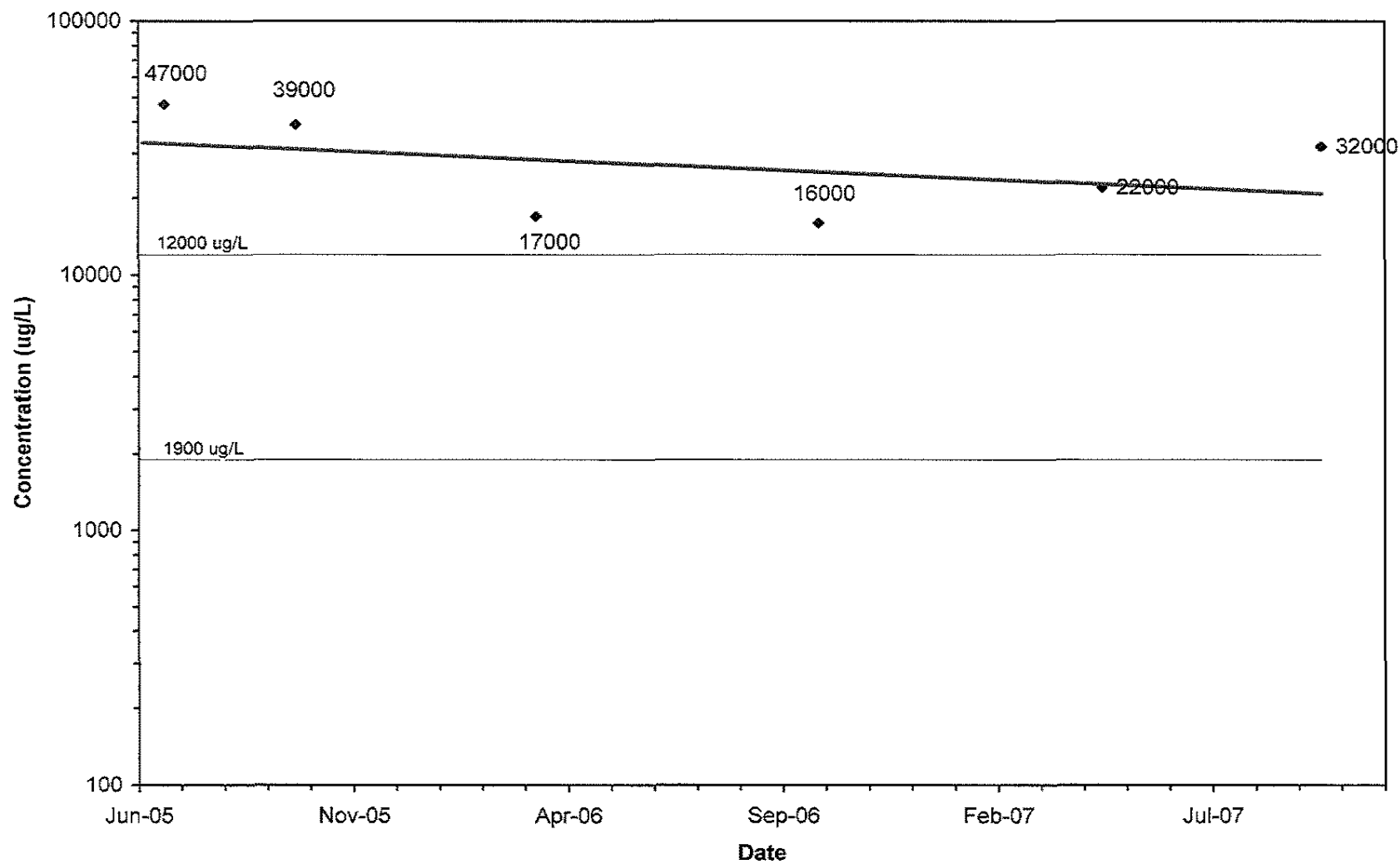


Figure 6: Regression Analysis Benzene Concentration

Sample Location: Recovery Well C



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TABLES

Table 1

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: **BH90-109**

Page 1 of 1

Sample Date		08-May-03	23-Oct-03	16-Apr-04	Oct-04	25-Apr-05	18-Oct-05	01-May-06	24-Oct-06	02-May-07	10-Oct-07	Ontario Regulation
Laboratory I.D.	RDL*	021294 03	062664 03	020299 04		F75803	I86938	L84829	P12338	S12814	V19162	153/04 Table 3
Ground Water Depth and Elevation (m)		-	1.77	0.18		0.67	1.76	1.97	1.93	2.18	3.61	Site Condition
		-	77.73	79.32		78.83	77.74	77.53	77.57	77.28	75.89	Standards **
Benzene	0.2	ND	ND	ND	Not sampled.	ND	ND (0.1)	ND	ND	ND	ND	(12000) 1900
Toluene	0.2	ND (0.4)	ND (0.4)	ND (0.4)		ND (0.4)	ND (0.2)	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2	ND (0.4)	ND (0.4)	ND (0.4)		ND (0.4)	ND (0.1)	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4	ND (0.5)	ND (0.5)	ND (0.5)		ND (0.5)	ND (0.1)	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for an industrial/commercial/community property use in a non-potable ground water condition are in **bold**.**BARENCO INC.**

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Table 2

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: **BH90-110**

Page 1 of 1

Sample Date		08-May-03	Oct-03	Apr-04	20-Oct-04	25-Apr-05	31-Oct-05	28-Apr-06	24-Oct-06	02-May-07	10-Oct-07	Ontario Regulation
Laboratory I.D.	RDL*	021306 03			074512 04	F75802	J13592	L80104	P12339	S12815	V19163	153/04 Table 3
Ground Water Depth and Elevation (m)		-			0.59	0.57	-	1.62	1.61	1.80	2.80	Site Condition Standards **
		-			-	-	-	-	-	-	-	
Benzene	0.2	ND			ND	ND	ND	ND	ND	ND	ND	(12000) 1900
Toluene	0.2	ND (0.4)	Not sampled.	Not sampled.	ND (0.4)	ND (0.4)	ND (0.4)	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2	ND (0.4)			ND (0.4)	ND (0.4)	ND	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4	ND (0.5)			ND (0.5)	ND (0.5)	ND (0.2)	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for an industrial/commercial/community property use in a non-potable ground water condition are in **bold**.

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Table 3

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: **BH90-111**

Page 1 of 1

Sample Date		08-May-03	22-Oct-03	16-Apr-04	20-Oct-04	27-Apr-05	19-Oct-05	27-May-06	24-Oct-06	02-May-07	10-Oct-07	Ontario Regulation
Laboratory I.D.	RDL*	021292 03	062153 03	020310 04	074526 04	F81424	I89601	M26154	P12340	S12816	V19164	153/04 Table 3
Ground Water Depth and Elevation (m)		-	1.87	1.15	1.86	0.91	1.84	2.31	2.24	2.44	3.35	Site Condition
		-	76.74	77.46	76.75	77.70	76.77	76.30	76.37	76.17	75.26	Standards **
Benzene	0.2	ND	ND	ND	ND	ND	ND (0.1)	ND	ND	ND	ND	(12000) 1900
Toluene	0.2	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.1)	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.1)	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for an industrial/commercial/community property use in a non-potable ground water condition are in **bold**.**BARENCO INC.**

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Table 4

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: BH90-115

Page 1 of 1

Sample Date		08-May-03	22-Oct-03	16-Apr-04	Oct-04	27-Apr-05	18-Oct-05	28-Apr-06	24-Oct-06	02-May-07	10-Oct-07	Ontario Regulation
Laboratory I.D.	RDL*	021299 03	06150 03	020304 04		F81434	I86932	L80105	P12341	S12817	V19165	153/04 Table 3
Ground Water Depth and Elevation (m)		-	3.21	2.12		1.76	3.21	2.13	2.51	2.46	3.67	Site Condition
		-	74.58	75.67		76.03	74.58	75.66	75.28	75.33	74.12	Standards **
Benzene	0.2	ND	ND	ND	Not sampled.	ND	ND (0.1)	ND	ND	ND	ND	(12000) 1900
Toluene	0.2	ND (0.4)	ND (0.4)	ND (0.4)		ND (0.4)	ND (0.2)	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2	ND (0.4)	ND (0.4)	ND (0.4)		ND (0.4)	ND (0.1)	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4	ND (0.5)	ND (0.5)	ND (0.5)		ND (0.5)	ND (0.1)	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for an industrial/commercial/community property use in a non-potable ground water condition are in **bold**.

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Table 5

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: **BH90-116**

Page 1 of 1

Sample Date		May-03	Oct-03	Apr-04	21-Oct-04	Apr-05	31-Oct-05	28-Apr-06	25-Oct-06	02-May-07	Oct-07	Ontario Regulation
Laboratory I.D.	RDL*				075028 04		J13591	L80106	P12342	S12818		153/04 Table 3
Ground Water Depth and Elevation (m)					2.81 74.98		nm	2.99 74.80	2.49 75.30	3.26 74.53		Site Condition Standards **
Benzene	0.2				ND		ND (0.1)	ND	ND	ND		(12000) 1900
Toluene	0.2	Not sampled.	Not sampled.	Not sampled.	ND(0.4)	Not sampled.	ND (0.2)	ND	ND	ND	Not sampled.	(37000) 5900
Ethylbenzene	0.2				ND(0.4)		ND (0.1)	ND	ND	ND		(50000) 28000
Total Xylenes	0.4				ND(0.5)		ND (0.1)	ND	ND	ND		(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for an industrial/commercial/community property use in a non-potable ground water condition are in **bold**.**BARENCO INC.**

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Table 6

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: **BH90-203**

Page 1 of 1

Sample Date		08-May-03	23-Oct-03	16-Apr-04	20-Oct-04	25-Apr-05	19-Oct-05	28-Apr-06	25-Oct-06	03-May-07	Oct-07	Ontario Regulation
Laboratory I.D.	RDL*	021311 03	062662 03	020302 04	074524 04	F75809	I89595	L80087	P12343	S16063		153/04 Table 3
Ground Water Depth and Elevation (m)		-	2.80	1.29	2.86	1.03	2.75	2.18	2.04	2.19		Site Condition Standards **
		-	-	-	-	-	-	-	-	-		
Benzene	0.2	ND	1.0	ND	5.2	0.2	1.4	1.0	1.0	7.3	Not sampled.	(12000) 1900
Toluene	0.2	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.2)	ND	ND	ND		(37000) 5900
Ethylbenzene	0.2	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.1)	ND	ND	ND		(50000) 28000
Total Xylenes	0.4	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.1)	ND	ND	ND		(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for an industrial/commercial/community property use in a non-potable ground water condition are in **bold**.**BARENCO INC.**

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Table 7

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: BH90-204

Page 1 of 1

Sample Date		08-May-03	23-Oct-03	16-Apr-04	Oct-04	25-Apr-05	19-Oct-05	28-Apr-06	25-Oct-06	03-May-07	12-Oct-07	Ontario Regulation
Laboratory I.D.	RDL*	021288 03	062663 03	020301 04		F75798	I89592	L80088	P12344	S16064	V24875	153/04 Table 3
Ground Water Depth and Elevation (m)		-	1.32	0.22		0.17	1.42	1.23	1.21	1.29	2.98	Site Condition Standards **
		-	-	-		-	-	-	-	-	-	
Benzene	0.2	ND	ND	ND		420	80	2.3	1.0	17	0.5	(12000) 1900
Toluene	0.2	ND (0.4)	ND (0.4)	ND (0.4)	Not sampled.	ND (4)	ND (2)	ND	ND	ND	1.2	(37000) 5900
Ethylbenzene	0.2	ND (0.4)	ND (0.4)	ND (0.4)		ND (4)	ND (1)	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4	ND (0.5)	ND (0.5)	ND (0.5)		ND (9)	3	0.5	ND	1.6	4.3	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for an industrial/commercial/community property use in a non-potable ground water condition are in **bold**.

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Table 8

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: **BH90-205**

Page 1 of 1

Sample Date		08-May-03	23-Oct-03	16-Apr-04	20-Oct-04	25-Apr-05	19-Oct-05	01-May-06	25-Oct-06	03-May-07	11-Oct-07	Ontario Regulation
Laboratory I.D.	RDL*	021285 03	062659 03	020300 04	074522 04	F75799	I89591	L84842	P12345	S16065	V22685	153/04 Table 3
Ground Water Depth and Elevation (m)		-	1.54	0.22	1.71	0.15	1.27	1.37	1.33	1.28	3.17	Site Condition Standards **
		-	-	-	-	-	-	-	-	-	-	
Benzene	0.2	310	170	1.3	37	2.9	109	27	0.5	2.1	7.8	(12000) 1900
Toluene	0.2	ND (2.0)	5.2	ND (0.4)	5.3	ND (0.4)	5	1.0	ND	0.3	3.3	(37000) 5900
Ethylbenzene	0.2	ND (2.0)	0.5	ND (0.4)	ND (0.4)	ND (0.4)	ND (1)	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4	ND (2.5)	4.5	ND (0.5)	5.2	ND (0.5)	5	0.9	ND	0.7	5.3	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for an industrial/commercial/community property use in a non-potable ground water condition are in **bold**.**BARENCO INC.**

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Table 9

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: **BH90-208**

Page 1 of 1

Sample Date		08-May-03	23-Oct-03	16-Apr-04	20-Oct-04	25-Apr-05	19-Oct-05	28-Apr-06	25-Oct-06	03-May-07	11-Oct-07	Ontario Regulation
Laboratory I.D.	RDL*	021281 03	062655 03	020297 04	075024 04	F75797	I89593	L80090	P12346	S16066	V22687	153/04 Table 3
Ground Water Depth and Elevation (m)		-	1.54	0.30	1.78	0.18	1.52	1.10	1.36	1.21	3.27	Site Condition Standards **
Benzene	2	19000	16000	15000	10000	9250	9200	6700	2600	2700	850	(12000) 1900
Toluene	2	ND (86)	ND (80)	ND (40)	ND (40)	ND (40)	ND (200)	ND (10)	ND	ND	ND (1)	(37000) 5900
Ethylbenzene	2	ND (86)	ND (80)	ND (40)	ND (40)	ND (40)	ND (100)	ND (10)	ND	ND	ND (1)	(50000) 28000
Total Xylenes	4	ND (110)	ND (100)	ND (50)	ND (50)	ND (50)	ND (100)	ND (20)	ND	ND	ND (2)	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for an industrial/commercial/community property use in a non-potable ground water condition are in **bold**.**BARENCO INC.**

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Table 10

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: **BH90-209**

Page 1 of 1

Sample Date		08-May-03	23-Oct-03	16-Apr-04	21-Oct-04	27-Apr-05	18-Oct-05	28-Apr-06	25-Oct-06	02-May-07	11-Oct-07	Ontario Regulation
Laboratory I.D.	RDL*	021284 03	062653 03	020293 04	075027 04	F81419	I86942	L80091	P12347	S12819	V22688	153/04 Table 3
Ground Water Depth and Elevation (m)		-	2.52	0.31	2.49	0.72	2.30	1.68	1.78	1.80	3.43	Site Condition Standards **
		-	-	-	-	-	-	-	-	-	-	
Benzene	0.2	170	99	110	87	108	86	94	90	98	77	(12000) 1900
Toluene	0.2	52	55	31	35	28.5	38	28	41	35	30	(37000) 5900
Ethylbenzene	0.2	78	56	76	37	61	63	76	57	76	58	(50000) 28000
Total Xylenes	0.4	260	250	240	160	206	270	240	240	280	270	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for an industrial/commercial/community property use in a non-potable ground water condition are in **bold**.

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Table 11

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: BH90-210

Page 1 of 1

Sample Date		08-May-03	22-Oct-03	16-Apr-04	21-Oct-04	27-Apr-05	18-Oct-05	02-May-06	25-Oct-06	03-May-07	11-Oct-07	Ontario Regulation
Laboratory I.D.	RDL*	021290 03	062139 03	020317 04	075033 04	F81427	I86947	L84830	P12348	S16067	V22691	153/04 Table 3
Ground Water Depth and Elevation (m)		-	3.69 74.77	3.40 75.06	3.56 74.90	3.18 75.28	4.67 73.79	4.36 74.10	4.53 73.93	4.19 74.27	4.75 73.71	Site Condition Standards **
Benzene	0.2	ND	ND	ND	ND	ND	ND (0.1)	ND	ND	ND	ND	(12000) 1900
Toluene	0.2	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.2)	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.1)	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.1)	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for an industrial/commercial/community property use in a non-potable ground water condition are in **bold**.

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Table 12

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: **BH90-211**

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Sample Date		May-03	Oct-03	Apr-04	Oct-04	Apr-05	20-Oct-05	02-May-06	24-Oct-06	02-May-07	09-Oct-07	Ontario Regulation
Laboratory I.D.	RDL*						I92657	L84831	P12349	S12820	V19167	153/04 Table 3
Ground Water Depth and Elevation (m)							4.09	3.77	3.89	3.25	4.06	Site Condition Standards **
							-	-	-	-	-	
Benzene	0.2						3.2	1.8	5.9	4.8	7.7	(12000) 1900
Toluene	0.2	Not sampled.	Not sampled.	Not sampled.	Not sampled.	Not sampled.	0.4	ND	0.4	ND	8.9	(37000) 5900
Ethylbenzene	0.2						ND	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4						1.3	ND	1.2	0.6	2.0	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for an industrial/commercial/community property use in a non-potable ground water condition are in **bold**.

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Table 13

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: **BH90-212**

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Sample Date		08-May-03	22-Oct-03	16-Apr-04	21-Oct-04	27-Apr-05	19-Oct-05	02-May-06	25-Oct-06	02-May-07	11-Oct-07	Ontario Regulation
Laboratory I.D.	RDL*	021310 03	062144 03	020315 04	075036 04	F81430	I89605	L84832	P12350	S12821	V22690	153/04 Table 3
Ground Water Depth and Elevation (m)		-	6.41	5.91	6.41	5.78	5.63	5.51	4.05	5.40	6.37	Site Condition Standards **
		-	75.08	75.58	75.08	75.71	75.86	75.98	77.44	76.09	75.12	
Benzene	0.2	ND	ND	ND	ND	ND	ND (0.1)	ND	ND	ND	ND	(12000) 1900
Toluene	0.2	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.2)	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.1)	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.1)	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for an industrial/commercial/community property use in a non-potable ground water condition are in **bold**.**BARENCO INC.**

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Table 14

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: BH90-216

Page 1 of 1

Sample Date		May-03	Oct-03	Apr-04	21-Oct-04	Apr-05	18-Oct-05	02-May-06	25-Oct-06	02-May-07	11-Oct-07	Ontario Regulation
Laboratory I.D.	RDL*				075040 04		I86929	L84833	P12351	S12822	V22684	153/04 Table 3
Ground Water Depth and Elevation (m)					2.16		2.11	1.77	1.93	2.82	3.01	Site Condition Standards **
					-		-	-	-	-	-	
Benzene	0.2				ND		ND (0.1)	ND	ND	ND	ND	(12000) 1900
Toluene	0.2	Not sampled.	Not sampled.	Not sampled.	ND (0.4)	Not sampled.	ND (0.2)	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2				ND (0.4)		ND (0.1)	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4				ND (0.5)		ND (0.1)	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for an industrial/commercial/community property use in a non-potable ground water condition are in **bold**.

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Table 15

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: **BH90-217**

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Sample Date		08-May-03	22-Oct-03	16-Apr-04	21-Oct-04	27-Apr-04	31-Oct-05	02-May-06	24-Oct-06	02-May-07	10-Oct-07	Ontario Regulation
Laboratory I.D.	RDL*	021295 03	062141 03	020314 04	075038 04	F81429	J13593	L84834	P12352	S12823	V19166	153/04 Table 3
Ground Water Depth and Elevation (m)		-	3.30	2.79	3.20	2.43	3.72	2.56	2.71	2.35	3.08	Site Condition Standards **
		-	74.43	74.97	74.53	75.30	74.01	75.17	75.02	75.38	74.65	
Benzene	0.2	22	1.2	15	0.40	3.3	ND	3.9	2.1	5.1	ND	(12000) 1900
Toluene	0.2	ND (4.0)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND	0.7	ND	ND	(37000) 5900
Ethylbenzene	0.2	ND (4.0)	ND (0.4)	0.4	ND (0.4)	ND (0.4)	ND (0.4)	0.2	ND	ND	ND	(50000) 28000
Total Xylenes	0.4	ND (5.0)	ND (0.5)	0.70	ND (0.5)	0.6	ND (0.5)	0.6	1.5	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for an industrial/commercial/community property use in a non-potable ground water condition are in **bold**.**BARENCO INC.**

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Table 16

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: **BH90-218A**

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Sample Date		May-03	Oct-03	Apr-04	Oct-04	Apr-05	20-Oct-05	02-May-06	24-Oct-06	02-May-07	09-Oct-07	Ontario Regulation
Laboratory I.D.	RDL*						I92654	L84835	P12353	S12824	V19168	153/04 Table 3
Ground Water Depth and Elevation (m)							4.48	4.24	4.37	4.08	4.50	Site Condition Standards **
							-	-	-	-	-	
Benzene	0.2						ND (0.1)	ND	ND	ND	ND	(12000) 1900
Toluene	0.2	Not sampled.	Not sampled.	Not sampled.	Not sampled.	Not sampled.	ND (0.2)	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2						ND (0.1)	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4						ND (0.1)	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for an industrial/commercial/community property use in a non-potable ground water condition are in **bold**.**BARENCO INC.**

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Table 17

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: BH92-305

Page 1 of 1

Sample Date		May-03	Oct-03	Apr-04	21-Oct-04	Apr-05	19-Oct-05	28-Apr-06	24-Oct-06	03-May-07	12-Oct-07	Ontario Regulation
Laboratory I.D.	RDL*				075019 04		I89596	L80092	P12354	S16068	V24877	153/04 Table 3
Ground Water Depth and Elevation (m)					1.96		1.96	1.25	1.24	1.26	2.90	Site Condition Standards **
					-		-	-	-	-	-	
Benzene	0.2				8.8		ND (3)	3.8	1.2	14	4.2	(12000) 1900
Toluene	0.2	Not sampled.	Not sampled.	Not sampled.	ND	Not sampled.	ND (5)	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2				ND		ND (3)	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4				1.4		ND (3)	ND	ND	1.1	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for an industrial/commercial/community property use in a non-potable ground water condition are in **bold**.

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Table 18

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: BH92-306

Page 1 of 1

Sample Date		May-03	Oct-03	Apr-04	Oct-04	25-Apr-05	19-Oct-05	28-Apr-06	25-Oct-06	03-May-07	11-Oct-07	Ontario Regulation
Laboratory I.D.	RDL*					F75796	I89597	L80093	P12355	S16069	V24882	153/04 Table 3
Ground Water Depth and Elevation (m)						0.34	1.92	1.35	1.33	1.49	2.94	Site Condition Standards **
						-	-	-	-	-	-	
Benzene	0.2					ND	ND	ND	ND	ND	ND	(12000) 1900
Toluene	0.2	Not sampled.	Not sampled.	Not sampled.	Not sampled.	ND (0.4)	ND	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2					ND (0.4)	ND	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4					ND (0.5)	ND (0.2)	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for an industrial/commercial/community property use in a non-potable ground water condition are in **bold**.

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Table 19

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: BH92-307

Page 1 of 1

Sample Date		May-03	Oct-03	Apr-04	Oct-04	Apr-05	18-Oct-05	28-Apr-06	25-Oct-06	02-May-07	11-Oct-07	Ontario Regulation
Laboratory I.D.	RDL*						I86943	L80097	P12356	S12825	V22689	153/04 Table 3
Ground Water Depth and Elevation (m)							4.41	2.69	2.68	2.69	4.74	Site Condition Standards **
							-	-	-	-	-	
Benzene	0.2						ND (0.1)	ND	ND	ND	ND	(12000) 1900
Toluene	0.2	Not sampled.	Not sampled.	Not sampled.	Not sampled.	Not sampled.	ND (0.2)	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2						ND (0.1)	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4						ND (0.1)	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for an industrial/commercial/community property use in a non-potable ground water condition are in **bold**.

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Table 20

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: **BH92-309**

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Sample Date		08-May-03	22-Oct-03	16-Apr-04	21-Oct-04	27-Apr-05	10-Oct-05	02-May-06	24-Oct-06	02-May-07	10-Oct-07	Ontario Regulation
Laboratory I.D.	RDL*	021309 03	062142 03	020316 04	075042 04	F81433	I92655	L84836	P12357	S12826	V19190	153/04 Table 3
Ground Water Depth and Elevation (m)		-	3.87 74.74	3.44 75.17	3.80 74.81	3.01 75.60	3.07 75.54	3.35 75.26	4.32 74.29	3.23 75.38	4.50 74.11	Site Condition Standards **
Benzene	0.2	ND	ND	ND	ND	ND	ND (0.1)	ND	ND	ND	ND	(12000) 1900
Toluene	0.2	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.2)	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.1)	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.1)	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario EPA Part XV.1 Table 3 site condition standards are in **bold**.**BARENCO INC.**

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Table 21

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: 92-310

Page 1 of 1

Sample Date		08-May-03	23-Oct-03	16-Apr-04	20-Oct-04	25-Apr-05	19-Oct-05	28-Apr-06	25-Oct-06	03-May-07	12-Oct-07	Ontario Regulation
Laboratory I.D.	RDL*	021303 03	062660 03	020303 04	074519 04	F75804	I89594	L80094	P12358	S16070	V24881	153/04 Table 3
Ground Water Depth and Elevation (m)		-	1.76	0.17	1.84	0.03	1.74	1.10	1.07	1.20	3.00	Site Condition Standards **
Benzene	0.2	920	71	56	15	1350	470	320	93	3100	670	(12000) 1900
Toluene	0.4	ND	ND	ND	ND	ND	ND (10)	ND (0.2)	ND (0.2)	ND (2)	ND (2)	(37000) 5900
Ethylbenzene	0.4	0.6	ND	ND	ND	ND	ND (5)	ND (0.2)	ND (0.2)	ND (2)	ND (2)	(50000) 28000
Total Xylenes	0.5	ND	ND	ND	ND	ND	ND (5)	ND (0.4)	ND (0.4)	ND (4)	ND (4)	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for an industrial/commercial/community property use in a non-potable ground water condition are in **bold**.

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Table 22

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: **BH92-311**

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Sample Date		08-May-03	23-Oct-03	30-Apr-04	20-Oct-04	27-Apr-05	19-Oct-05	28-Apr-06	25-Oct-06	03-May-07	11-Oct-07	Ontario Regulation
Laboratory I.D.	RDL*	021300 03	062657 03	024164 04	074516 04	F81418	I89606	L80095	P12359	S16071	V22686	153/04 Table 3
Ground Water Depth and Elevation (m)		-	1.03	-	1.36	-0.10	1.12	0.82	0.83	0.81	2.64	Site Condition Standards **
		-	-	-	-	-	-	-	-	-	-	
Benzene	0.2	12000	810	15000	1200	18600	730	19000	640	19000	610	(12000) 1900
Toluene	0.2	ND (17)	ND (4.0)	ND (80)	ND	ND (40)	ND (20)	ND (20)	ND (0.4)	ND (10)	ND (1)	(37000) 5900
Ethylbenzene	0.2	ND (17)	ND (4.0)	ND (80)	0.9	ND (40)	ND (10)	ND (20)	0.5	ND (10)	ND (1)	(50000) 28000
Total Xylenes	0.4	ND (22)	ND (5.0)	ND (100)	ND	ND (50)	ND (10)	ND (40)	ND (0.8)	ND (20)	ND (2)	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for an industrial/commercial/community property use in a non-potable ground water condition are in **bold**.**BARENCO INC.**

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Table 23

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: **BH92-312**

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Sample Date		08-May-03	23-Oct-03	16-Apr-04	21-Oct-04	27-Apr-05	19-Oct-05	28-Apr-06	25-Oct-06	03-May-07	Oct-07	Ontario Regulation
Laboratory I.D.	RDL*	021297 03	062654 03	020295 04	075030 04	F81416	I89589	L80096	P12360	S16072		153/04 Table 3
Ground Water Depth and Elevation (m)		-	1.78	0.76	2.34	0.17	1.94	1.51	1.65	1.94		Site Condition Standards **
		-	-	-	-	-	-	-	-	-		
Benzene	0.2	0.2	ND	ND	ND	0.3	ND (0.1)	ND	ND	ND	Not sampled.	(12000) 1900
Toluene	0.2	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.2)	ND	ND	ND		(37000) 5900
Ethylbenzene	0.2	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.1)	ND	ND	ND		(50000) 28000
Total Xylenes	0.4	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.1)	ND	ND	ND		(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for an industrial/commercial/community property use in a non-potable ground water condition are in **bold**.**BARENCO INC.**

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Table 24

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: **BH92-314**

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Sample Date		08-May-03	22-Oct-03	16-Apr-04	21-Oct-04	27-Apr-05	20-Oct-05	Apr-06	24-Oct-06	02-May-07	09-Oct-07	Ontario Regulation
Laboratory I.D.	RDL*	021282 03	062143 03	020319 04	075041 04	F81432	I92653		P12361	S12827	V19171	153/04 Table 3
Ground Water Depth and Elevation (m)		-	4.83 75.40	4.71 75.52	4.80 75.43	4.64 75.59	5.71 74.52		6.13 74.10	6.10 74.13	6.51 73.72	Site Condition Standards **
Benzene	0.2	ND	ND	ND	ND	ND	ND (0.1)	Not sampled.	ND	ND	ND	(12000) 1900
Toluene	0.2	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.2)		ND	ND	ND	(37000) 5900
Ethylbenzene	0.2	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.1)		ND	ND	ND	(50000) 28000
Total Xylenes	0.4	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.1)		ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for an industrial/commercial/community property use in a non-potable ground water condition are in **bold**.**BARENCO INC.**

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Table 25

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: BH92-315

Page 1 of 1

Sample Date		08-May-03	Oct-03	Apr-04	20-Oct-04	25-Apr-05	Oct-05	28-Apr-06	25-Oct-06	03-May-07	12-Oct-07	Ontario Regulation
Laboratory I.D.	RDL*	021287 03			-	F75805		L80098	P12362	S16073	V24880	153/04 Table 3
Ground Water Depth and Elevation (m)		-			-	0.16		1.48	1.40	1.51	2.80	Site Condition Standards **
		-			-	-		-	-	-	-	
Benzene	0.2	ND				ND		ND	ND	ND	ND	(12000) 1900
Toluene	0.2	0.5	Not sampled.	Not sampled.	Not sampled (insufficient water volume).	ND (0.4)	Not sampled	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2	ND (0.4)				ND (0.4)		ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4	ND (0.5)				ND (0.5)		ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for an industrial/commercial/community property use in a non-potable ground water condition are in **bold**.

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Table 26

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: BH92-316

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Sample Date		08-May-03	Oct-03	Apr-04	20-Oct-04	25-Apr-05	Oct-05	28-Apr-06	25-Oct-06	03-May-07	12-Oct-07	Ontario Regulation
Laboratory I.D.	RDL*	021296 03			074521 04	F75808		L80099	P12363	S16074	V24879	153/04 Table 3
Ground Water Depth and Elevation (m)		-			1.94	0.46		1.48	1.44	1.55	2.89	Site Condition Standards **
		-			-	-		-	-	-	-	
Benzene	0.2	ND			ND	0.6		1.3	ND	1.0	ND	(12000) 1900
Toluene	0.2	ND (0.4)	Not sampled.	Not sampled.	ND (0.4)	ND (0.4)	Not sampled	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2	ND (0.4)			ND (0.4)	ND (0.4)		ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4	ND (0.5)			ND (0.5)	ND (0.5)		ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for an industrial/commercial/community property use in a non-potable ground water condition are in **bold**.

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Table 27

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: **BH92-317**

Page 1 of 1

Sample Date		08-May-03	23-Oct-03	16-Apr-04	20-Oct-04	25-Apr-05	18-Oct-05	28-Apr-06	25-Oct-06	May-07	Oct-07	Ontario Regulation
Laboratory I.D.	RDL*	021298 03	062656 03	020294 04	074523 04	F75800	189590	L80100	P12364			153/04 Table 3
Ground Water Depth and Elevation (m)		-	1.58	0.82	1.81	0.62	1.48	1.59	1.61			Site Condition Standards **
		-	-	-	-	-	-	-	-			
Benzene	0.2	17	42	25	97	30	12	6.4	5.9	Not sampled, Monitor obstruction	Not sampled, Monitor obstruction	(12000) 1900
Toluene	0.2	2.5	2.6	0.9	4.1	2.9	ND (1)	ND	ND			(37000) 5900
Ethylbenzene	0.2	2.7	1.2	1.1	1.9	2.8	1.1	ND	ND			(50000) 28000
Total Xylenes	0.4	3.0	4.3	1.7	8.3	4.4	1.0	ND	0.8			(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for an industrial/commercial/community property use in a non-potable ground water condition are in **bold**.**BARENCO INC.**

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Table 28

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: **BH92-318A**

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Sample Date		08-May-03	Oct-03	Apr-04	Oct-04	27-Apr-05	Oct-05	01-May-06	25-Oct-06	02-May-07	10-Oct-07	Ontario Regulation
Laboratory I.D.	RDL*	021305 03				F81423		L84837	P12365	S12828	V19185	153/04 Table 3
Ground Water Depth and Elevation (m)		-				2.27		3.10	3.13	3.13	3.83	Site Condition Standards **
		-				-		-	-	-	-	
Benzene	0.2	ND				ND		ND	ND	ND	ND	(12000) 1900
Toluene	0.2	ND (0.4)	Not sampled.	Not sampled.	Not sampled	ND (0.4)	Not sampled	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2	ND (0.4)				ND (0.4)		ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4	1.1				0.7		ND	0.6	0.5	0.5	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for an industrial/commercial/community property use in a non-potable ground water condition are in **bold**.**BARENCO INC.**

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Table 29

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: BH92-320

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Sample Date		08-May-03	22-Oct-03	16-Apr-04	21-Oct-04	27-Apr-05	18-Oct-05	01-May-06	24-Oct-06	02-May-07	10-Oct-07	Ontario Regulation
Laboratory I.D.	RDL*	021289 03	062146 03	020311 04	075034 04	F81428	I86931	L84838	P12366	S12829	V19169	153/04 Table 3
Ground Water Depth and Elevation (m)		-	2.45 74.96	1.90 75.51	2.40 75.01	0.70 76.71	2.25 75.16	2.88 74.53	2.93 74.48	2.81 74.60	3.42 73.99	Site Condition Standards **
Benzene	0.2	ND	ND	ND	ND	ND	ND (0.1)	ND	ND	ND	ND	(12000) 1900
Toluene	0.2	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.2)	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.1)	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.1)	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for an industrial/commercial/community property use in a non-potable ground water condition are in **bold**.

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Table 30

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: **BH92-321**

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Sample Date		08-May-03	22-Oct-03	16-Apr-04	21-Oct-04	27-Apr-05	20-Oct-05	02-May-06	24-Oct-06	02-May-07	09-Oct-07	Ontario Regulation
Laboratory I.D.	RDL*	021308 03	062145 03	020313 04	075035 04	F81431	I92652	L84839	P12367	S12830	V19182	153/04 Table 3
Ground Water Depth and Elevation (m)		-	2.96	1.29	3.02	1.19	2.64	1.60	3.05	1.66	3.33	Site Condition Standards **
		-	74.80	76.47	74.74	76.57	75.12	76.16	74.71	76.10	74.43	
Benzene	0.2	ND	ND	ND	ND	ND	ND (0.1)	ND	ND	ND	ND	(12000) 1900
Toluene	0.2	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.2)	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.1)	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.1)	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for an industrial/commercial/community property use in a non-potable ground water condition are in **bold**.**BARENCO INC.**

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Table 31

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: **BH92-322**

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Sample Date		08-May-03	22-Oct-03	16-Apr-04	21-Oct-04	Apr-05	18-Oct-05	28-Apr-06	25-Oct-06	02-May-07	10-Oct-07	Ontario Regulation
Laboratory I.D.	RDL*	021307 03	062147 03	020306 04	075031 04		186939	L80107	P12409	S12831	V19170	153/04 Table 3
Ground Water Depth and Elevation (m)		-	1.76	1.24	2.05		3.36	3.46	3.63	3.30	4.02	Site Condition
		-	76.55	77.07	76.25		74.94	74.84	74.67	75.00	74.29	Standards **
Benzene	0.2	2.0	52	78	64	Not sampled.	49	2.5	4.3	3.1	4.5	(12000) 1900
Toluene	0.2	ND (0.4)	1.3	1.3	1.2		ND (1)	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)		ND (0.5)	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4	ND (0.5)	0.50	ND (0.5)	0.70		ND (0.5)	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for an industrial/commercial/community property use in a non-potable ground water condition are in **bold**.

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Table 32

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: **BH92-323**

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Sample Date		May-03	Oct-03	Apr-04	Oct-04	Apr-05	18-Oct-05	28-Apr-06	25-Oct-06	02-May-07	Oct-07	Ontario Regulation
Laboratory I.D.	RDL*						I86928	L80101	P12410	S12832		153/04 Table 3
Ground Water Depth and Elevation (m)							4.13	3.61	2.71	4.08		Site Condition Standards **
							-	-	-	-		
Benzene	0.2						ND (0.1)	ND	ND	ND		(12000) 1900
Toluene	0.2	Not sampled.	Not sampled.	Not sampled.	Not sampled.	Not sampled.	ND (0.2)	ND	ND	ND	Not sampled.	(37000) 5900
Ethylbenzene	0.2						ND (0.1)	ND	ND	ND		(50000) 28000
Total Xylenes	0.4						ND (0.1)	ND	ND	ND		(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for an industrial/commercial/community property use in a non-potable ground water condition are in **bold**.**BARENCO INC.**

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Table 33

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: **BH92-324**

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Sample Date		May-03	Oct-03	Apr-04	21-Oct-04	Apr-05	20-Oct-05	Apr-06	24-Oct-06	02-May-07	09-Oct-07	Ontario Regulation
Laboratory I.D.	RDL*				075037 04		192658		P12411	S12833	V19183	153/04 Table 3
Ground Water Depth and Elevation (m)					2.57 74.91		2.41 75.08		3.19 74.30	2.86 74.63	3.34 74.14	Site Condition Standards **
Benzene	0.2				ND		ND (0.1)		ND	ND	ND	(12000) 1900
Toluene	0.2	Not sampled.	Not sampled.	Not sampled.	ND (0.4)	Not sampled.	ND (0.2)	Not sampled.	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2				ND (0.4)		ND (0.1)		ND	ND	ND	(50000) 28000
Total Xylenes	0.4				ND (0.5)		ND (0.1)		ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for an industrial/commercial/community property use in a non-potable ground water condition are in **bold**.**BARENCO INC.**

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Table 34

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: **BH92-325**

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Sample Date		08-May-03	22-Oct-03	16-Apr-04	21-Oct-04	27-Apr-05	20-Oct-05	Apr-06	Oct-06	02-May-07	09-Oct-07	Ontario Regulation
Laboratory I.D.	RDL*	021291 03	062140 03	020318 04	075030 04	F81422	I92656			S12834	V19184	153/04 Table 3
Ground Water Depth and Elevation (m)		-	2.51	2.24	2.43	2.03	3.25			3.71	4.20	Site Condition
		-	74.72	74.99	74.81	75.20	73.98			73.52	73.03	Standards **
Benzene	0.2	ND	ND	ND	ND	ND	ND (0.1)			ND	ND	(12000) 1900
Toluene	0.2	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.2)	Not sampled.	Not sampled.	ND	ND	(37000) 5900
Ethylbenzene	0.2	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.1)			ND	ND	(50000) 28000
Total Xylenes	0.4	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.1)			ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for an industrial/commercial/community property use in a non-potable ground water condition are in **bold**.**BARENCO INC.**

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Table 35

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: **BH92-326**

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Sample Date		08-May-03	Oct-03	Apr-04	20-Oct-04	25-Apr-05	19-Oct-05	28-Apr-06	24-Oct-06	02-May-07	10-Oct-07	Ontario Regulation
Laboratory I.D.	RDL*	021302 03			074514 04	F75795	I89604	L80108	P12412	S12835	V19172	153/04 Table 3
Ground Water Depth and Elevation (m)		-			1.78	0.99	1.63	2.02	2.03	2.08	3.11	Site Condition Standards **
		-			-	-	-	-	-	-	-	
Benzene	0.2	ND			ND	ND	ND (0.1)	ND	ND	ND	ND	(12000) 1900
Toluene	0.2	ND (0.4)	Not sampled.	Not sampled.	ND (0.4)	ND (0.4)	ND (0.2)	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2	ND (0.4)			ND (0.4)	ND (0.4)	ND (0.1)	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4	ND (0.5)			ND (0.5)	ND (0.5)	ND (0.1)	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for an industrial/commercial/community property use in a non-potable ground water condition are in **bold**.**BARENCO INC.**

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Table 36

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: 03-TH1

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Sample Date			22-Oct-03	16-Apr-04	21-Oct-04	25-Apr-05	18-Oct-05	28-Apr-06	24-Oct-06	02-May-07	10-Oct-07	Ontario Regulation
Laboratory I.D.	RDL*		062154 03	020292 04	075021 04	F75790	I86941	L80109	P12413	S12836	V19173	153/04 Table 3
Ground Water Depth and Elevation (m)			1.74	0.44	2.04	0.27	1.74	1.29	1.46	1.49	3.48	Site Condition Standards **
			-	-	-	-		-	-	-	-	
Benzene	0.2		140	ND	16	ND	1.7	ND	ND	ND	ND	(12000) 1900
Toluene	0.2	Monitor installed	1.1	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.2)	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2	30-Jul-03.	1.7	ND (0.4)	0.7	ND (0.4)	ND (0.1)	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4		1.5	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.1)	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for an industrial/commercial/community property use in a non-potable ground water condition are in **bold**.

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Table 37

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: 03-TH2

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Sample Date			22-Oct-03	16-Apr-04	21-Oct-04	25-Apr-05	31-Oct-05	27-May-06	25-Oct-06	02-May-07	10-Oct-07	Ontario Regulation
Laboratory I.D.	RDL*		062151 03	020309 04	075020 04	F75792	J13595	M26155	P12414	S12837	V19174	153/04 Table 3
Ground Water Depth and Elevation (m)			2.09	1.27	2.20	0.61	-	2.10	2.14	2.21	3.49	Site Condition Standards **
			-	-	-	-	-	-	-	-	-	
Benzene	0.2		4.6	ND	8.8	ND	ND (0.1)	ND	ND	ND	ND	(12000) 1900
Toluene	0.2	Monitor installed	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.2)	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2	30-Jul-03.	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.1)	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4		ND (0.5)	ND (0.5)	1.4	ND (0.5)	ND (0.1)	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for an industrial/commercial/community property use in a non-potable ground water condition are in **bold**.

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Table 38

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: 03-TH3

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Sample Date			22-Oct-03	Apr-04	21-Oct-04	25-Apr-05	18-Oct-05	28-Apr-06	25-Oct-06	02-May-07	10-Oct-07	Ontario Regulation
Laboratory I.D.	RDL*		062149 03		075022 04	F75793	I86940	L80110	P12415	S12838	V19175	153/04 Table 3
Ground Water Depth and Elevation (m)			2.04		2.14	0.91	2.1	2.22	2.29	2.37	3.50	Site Condition Standards **
			-		-	-	-	-	-	-	-	
Benzene	0.2		1300		600	117	250	24	66	44	ND	(12000) 1900
Toluene	0.2	Monitor installed	ND (0.4)	Not sampled.	ND (0.4)	ND (0.4)	ND (5)	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2	30-Jul-03.	16		2.8	2.1	ND (3)	0.3	0.9	3.2	ND	(50000) 28000
Total Xylenes	0.4		5.6		ND (0.5)	ND (0.5)	ND (3)	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for an industrial/commercial/community property use in a non-potable ground water condition are in **bold**.

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Table 39

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: 03-TH4

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Sample Date			22-Oct-03	Apr-04	20-Oct-04	27-Apr-05	18-Oct-05	01-May-06	24-Oct-06	02-May-07	10-Oct-07	Ontario Regulation
Laboratory I.D.	RDL*		062152 03		074520 04	F81425	I86936	L84840	P12416	S12839	V19176	153/04 Table 3
Ground Water Depth and Elevation (m)			1.88		1.98	0.98	1.91	2.12	2.10	2.21	3.24	Site Condition Standards **
			-		-	-	-	-	-	-	-	
Benzene	0.2		640		900	505	510	370	820	34	1.1	(12000) 1900
Toluene	0.2	Monitor installed	ND (0.4)	Not sampled.	ND (0.4)	ND (2)	ND (20)	ND	ND (0.4)	ND	ND	(37000) 5900
Ethylbenzene	0.2	31-Jul-03.	ND (0.4)		ND (0.4)	ND (2)	ND (10)	ND	ND (0.4)	ND	ND	(50000) 28000
Total Xylenes	0.4		ND (0.5)		ND (0.5)	ND (2.5)	ND (10)	ND	ND (0.8)	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for an industrial/commercial/community property use in a non-potable ground water condition are in **bold**.

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Table 40

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: 03-TH5

Page 1 of 1

Sample Date			23-Oct-03	16-Apr-04	20-Oct-04	25-Apr-05	18-Oct-05	28-Apr-06	24-Oct-06	02-May-07	10-Oct-07	Ontario Regulation
Laboratory I.D.	RDL*		062666 03	020296 04	074517 04	F75794	I86937	L80111	P12417	S12840	V19177	153/04 Table 3
Ground Water Depth and Elevation (m)			1.95	1.21	2.01	0.87	1.84	2.02	2.10	2.19	3.28	Site Condition Standards **
			-	-	-	-	-	-	-	-	-	
Benzene	0.2		ND	ND	ND	ND	ND (0.1)	ND	ND	ND	ND	(12000) 1900
Toluene	0.2	Monitor installed	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.2)	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2	31-Jul-03.	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.1)	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.1)	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for an industrial/commercial/community property use in a non-potable ground water condition are in **bold**.

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Table 41

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: 03-TH6

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Sample Date			23-Oct-03	16-Apr-04	20-Oct-04	25-Apr-05	18-Oct-05	28-Apr-06	24-Oct-06	02-May-07	10-Oct-07	Ontario Regulation
Laboratory I.D.	RDL*		062665 03	020320 04	074518 04	F75806	I86933	L80112	P12418	S12841	V19178	153/04 Table 3
Ground Water Depth and Elevation (m)			1.35	0.82	1.52	0.62	1.35	1.69	1.69	1.87	2.81	Site Condition Standards **
			-	-	-	-	-	-	-	-	-	
Benzene	0.2		ND	ND	ND	ND	ND (0.1)	ND	ND	ND	ND	(12000) 1900
Toluene	0.2	Monitor installed	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.2)	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2	31-Jul-03.	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.1)	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.1)	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for an industrial/commercial/community property use in a non-potable ground water condition are in **bold**.

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Table 42

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: 03-TH7

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Sample Date			Oct-03	Apr-04	20-Oct-04	25-Apr-05	18-Oct-05	28-Apr-06	24-Oct-06	02-May-07	10-Oct-07	Ontario Regulation
Laboratory I.D.	RDL*				074515 04	F75807	I86934	L80113	P12423	S12842	V19179	153/04 Table 3
Ground Water Depth and Elevation (m)					1.54	0.78	1.46	1.84	1.84	2.02	2.91	Site Condition Standards **
					-	-	-	-	-	-	-	
Benzene	0.2				ND	ND	ND (0.1)	ND	ND	ND	ND	(12000) 1900
Toluene	0.2	Monitor installed	Not sampled.	Not sampled.	ND (0.4)	ND (0.4)	ND (0.2)	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2	31-Jul-03.			ND (0.4)	ND (0.4)	ND (0.1)	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4				ND (0.5)	ND (0.5)	ND (0.1)	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for an industrial/commercial/community property use in a non-potable ground water condition are in **bold**.

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Table 43

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: TH04-01

Page 1 of 1

Sample Date				16-Apr-04	21-Oct-04	27-Apr-05	19-Oct-05	28-Apr-06	25-Oct-06	02-May-07	10-Oct-07	Ontario Regulation
Laboratory I.D.	RDL*			020308 04	075023 04	F81421	I89588	L80114	P12424	S12843	V19180	153/04 Table 3
Ground Water Depth and Elevation (m)				0.86	1.87	1.57	1.77	1.57	1.66	1.78	3.13	Site Condition Standards **
				-	-	-	-	-	-	-	-	
Benzene	0.2			ND	ND	ND	ND (0.1)	ND	ND	ND	ND	(12000) 1900
Toluene	0.2		Monitor installed 08-Mar-04.	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.2)	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2			ND (0.4)	ND (0.4)	ND (0.4)	ND (0.1)	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4			ND (0.5)	ND (0.5)	ND (0.5)	ND (0.1)	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for an industrial/commercial/community property use in a non-potable ground water condition are in **bold**.

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Table 44

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: TH04-02

Page 1 of 1

Sample Date				16-Apr-04	21-Oct-04	27-Apr-05	31-Oct-05	28-Apr-06	25-Oct-06	02-May-07	10-Oct-07	Ontario Regulation
Laboratory I.D.	RDL*			020307 04	075026 04	F81421	J13594	L80115	P12425	S12844	V19181	153/04 Table 3
Ground Water Depth and Elevation (m)				1.36	2.60	1.56	-	2.51	2.74	2.67	3.62	Site Condition Standards **
				-	-	-	-	-	-	-	-	
Benzene	0.2			ND	1.0	ND	0.1	ND	ND	ND	ND	(12000) 1900
Toluene	0.2		Monitor installed	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.2)	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2		08-Mar-04.	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.1)	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4			ND (0.5)	ND (0.5)	ND (0.5)	ND (0.1)	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for an industrial/commercial/community property use in a non-potable ground water condition are in **bold**.

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Table 45

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: A

Page 1 of 1

Sample Date		May-03	Oct-03	Apr-04	Oct-04	20-Jul-05	18-Oct-05	02-May-06	25-Oct-06	02-May-07	11-Oct-07	Ontario Regulation
Laboratory I.D.	RDL*					H28831	I86930	L84842	P12426	S12845	V22694	153/04 Table 3
Ground Water Depth and Elevation (m)						1.14	1.70	2.40	2.92	2.17	2.92	Site Condition Standards **
						-	-	-	-	-	-	
Benzene	0.2	Not sampled.	Not sampled.	Not sampled.	Not sampled.	ND	ND (0.1)	ND	ND	ND	ND	(12000) 1900
Toluene	0.2					ND (0.4)	ND (0.2)	ND	ND	ND	3.2	(37000) 5900
Ethylbenzene	0.2					ND (0.4)	ND (0.1)	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4					ND (0.5)	ND (0.1)	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for an industrial/commercial/community property use in a non-potable ground water condition are in **bold**.

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Table 46

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: C

Page 1 of 1

Sample Date		May-03	Oct-03	Apr-04	Oct-04	20-Jul-05	19-Oct-05	01-May-06	27-Oct-06	03-May-07	12-Oct-07	Ontario Regulation
Laboratory I.D.	RDL*					H28832	I89598	L84843	P19237	S16075	V24876	153/04 Table 3
Ground Water Depth and Elevation (m)						0.91	0.40	nm	nm	0.39	2.15	Site Condition Standards **
						-	-	-	-	-	-	
Benzene	10	Not sampled.	Not sampled.	Not sampled.	Not sampled.	47000	39000	17000	16000	22000	32000	(12000) 1900
Toluene	10					ND (40)	ND (2000)	ND	ND	ND (20)	ND (100)	(37000) 5900
Ethylbenzene	10					ND (40)	ND (1000)	ND	ND	ND (20)	ND (100)	(50000) 28000
Total Xylenes	20					ND (80)	ND (1000)	ND	ND	ND (40)	ND (200)	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for an industrial/commercial/community property use in a non-potable ground water condition are in **bold**.

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Table 47

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: D1

Page 1 of 1

Sample Date		May-03	Oct-03	Apr-04	Oct-04	20-Jul-05	19-Oct-05	01-May-06	25-Oct-06	03-May-07	12-Oct-07	Ontario Regulation
Laboratory I.D.	RDL*					H28833	I89603	L84844	P12427	S16076	V24878	153/04 Table 3
Ground Water Depth and Elevation (m)						0.99	1.07	1.19	1.14	1.19	2.25	Site Condition Standards **
Benzene	0.2	Not sampled.	Not sampled.	Not sampled.	Not sampled.	21	2.5	ND	ND	ND	ND	(12000) 1900
Toluene	0.2	Not sampled.	Not sampled.	Not sampled.	Not sampled.	ND (0.4)	ND (0.2)	ND	ND	ND	0.7	(37000) 5900
Ethylbenzene	0.2					ND (0.4)	ND (0.1)	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4					ND (0.5)	ND (0.1)	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe, or top of pumping box (*)

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for an industrial/commercial/community property use in a non-potable ground water condition are in **bold**.

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Table 48

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: D2

Page 1 of 1

Sample Date		May-03	Oct-03	Apr-04	Oct-04	20-Jul-05	18-Oct-05	01-May-06	25-Oct-06	02-May-07	10-Oct-07	Ontario Regulation
Laboratory I.D.	RDL*					H28834	I86935	L84845	P12428	S12846	V19186	153/04 Table 3
Ground Water Depth and Elevation (m)						0.71	0.52	0.87	nm	0.97	nm	Site Condition Standards **
						-	-	-	-	-	-	
Benzene	0.2					490	62	20	ND	ND	1.7	(12000) 1900
Toluene	0.2	Not sampled.	Not sampled.	Not sampled.	Not sampled.	ND (2)	ND (1)	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2					ND (2)	ND (0.5)	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4					ND (4)	ND (0.5)	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for an industrial/commercial/community property use in a non-potable ground water condition are in **bold**.

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Table 49

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: E

Page 1 of 1

Sample Date		May-03	Oct-03	Apr-04	Oct-04	20-Jul-05	19-Oct-05	02-May-06	25-Oct-06	02-May-07	Oct-07	Ontario Regulation
Laboratory I.D.	RDL*					H28835	I89602	L84846	P12429	S12847		153/04 Table 3
Ground Water Depth and Elevation (m)						1.43	1.79	1.90	1.02	1.16		Site Condition Standards **
						-	-	-	-	-		
Benzene	0.2	Not sampled.	Not sampled.	Not sampled.	Not sampled.	1.4	ND (0.5)	ND	ND	ND	Not sampled.	(12000) 1900
Toluene	0.2					0.5	41	ND	ND	ND		(37000) 5900
Ethylbenzene	0.2					ND (0.4)	ND (0.5)	ND	ND	ND		(50000) 28000
Total Xylenes	0.4					ND (0.5)	ND (0.5)	ND	ND	ND		(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for an industrial/commercial/community property use in a non-potable ground water condition are in **bold**.

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Table 50

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: F

Page 1 of 1

Sample Date		May-03	Oct-03	Apr-04	Oct-04	20-Jul-05	19-Oct-05	02-May-06	25-Oct-06	02-May-07	10-Oct-07	Ontario Regulation
Laboratory I.D.	RDL*					H28836	I89602	L84847	P12430	S12848	V19187	153/04 Table 3
Ground Water Depth and Elevation (m)						1.21	1.9	2.15	2.70	1.69	3.00	Site Condition Standards **
						-	-	-	-	-	-	
Benzene	0.2	Not sampled.	Not sampled.	Not sampled.	Not sampled.	45	ND (0.5)	ND	ND	ND	ND	(12000) 1900
Toluene	0.2					ND (0.4)	41	ND	ND	ND	1.0	(37000) 5900
Ethylbenzene	0.2					ND (0.4)	ND (0.5)	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4					ND (0.5)	ND (0.5)	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for an industrial/commercial/community property use in a non-potable ground water condition are in **bold**.

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Table 51

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: G

Page 1 of 1

Sample Date		May-03	Oct-03	Apr-04	Oct-04	20-Jul-05	18-Oct-05	02-May-06	25-Oct-06	02-May-07	Oct-07	Ontario Regulation
Laboratory I.D.	RDL*					H28837	I86946	L84848	P12431	S12849		153/04 Table 3
Ground Water Depth and Elevation (m)						1.53	1.66	2.40	2.42	nm		Site Condition Standards **
						-	-	-	-	-		
Benzene	0.2					2.2	0.3	ND	ND	ND		(12000) 1900
Toluene	0.2	Not sampled.	Not sampled.	Not sampled.	Not sampled.	ND (0.4)	ND (0.4)	ND	ND	250	Not sampled.	(37000) 5900
Ethylbenzene	0.2					ND (0.4)	ND (0.4)	ND	ND	ND		(50000) 28000
Total Xylenes	0.4					ND (0.5)	ND (0.1)	ND	ND	ND		(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.


Exceedances of Ontario Reg. 153/04 Table 3 standards for an industrial/commercial/community property use in a non-potable ground water condition are in **bold**.

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APPENDIX A

Quality Management, Control and Assurance


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QUALITY MANAGEMENT, CONTROL AND ASSURANCE

Project Quality Management

Sampling analysis was performed using generally accepted principles and with appropriate sampling equipment. Written field and laboratory sampling procedures for ground water developed by Barenco Inc. were used to ensure consistency in sample collection and preparation of samples for submission to the laboratory. The MOE document entitled *Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario*, December 1996, was used as a reference.

The staff involved in the field sampling have participated in regular, ongoing Barenco training programs and were qualified and experienced in collecting, describing, and preparing environmental samples for laboratory analysis.

Laboratory analysis was performed using generally accepted principles in accordance with the *Protocol for Analytical Methods Used in the Assessment of Properties* under Part XV.1 of the Environmental Protection Act (Protocol).

Data quality objectives for the parameters of concern were set to meet acceptable RDLs to achieve the goal of defining areas where such parameters are present at levels in excess of applicable generic standards, as defined in Ontario Regulation 153/04 under the Environmental Protection Act. This included providing written instruction to the participating analytical laboratory describing the required analyses on the Chain of Custody prepared and delivered with the samples. The laboratory has a standing contract with Imperial Oil which sets out specific data quality requirements. Any non-compliance with this contract is documented using a data quality waiver issued by the laboratory. When a data quality waiver is issued by the laboratory, it must be reviewed, signed by Barenco, and returned to the laboratory. Data quality waivers are included with all reports, along with the complete Certificate of Analysis.

Field Quality Assurance/ Quality Control

The ground water sampling plan was prepared and executed based on the findings of the Phase I assessment conducted for the site, and on professional judgment at the time of the investigation.

Field observations were made and documented in a field book in accordance with generally accepted practices and with the procedures developed and utilized by Barenco.

Barenco field sampling QA/QC protocols are tailored to the investigation and include, where appropriate:

- ☐ the collection of at least one duplicate sample per site for ground water (where three or more such samples are collected);
- ☐ where volatile organic chemical analysis is required, the collection of discrete samples directly into sample bottles with teflon-lined lids and immediate placement into a cooler with free ice to maintain the temperature at less than 10° C for transport to the laboratory;
- ☐ the use of dedicated equipment for ground water sampling at different monitors;
- ☐ where sampling for trace organics (organic chemicals with a criterion value of less than 1 ug/g and/or samples collected for determination of background trace organic concentrations), ensuring that neither the bare hand or latex glove comes into contact with the water as it is being placed into the laboratory sample container.
- ☐ the inclusion of one water trip blank and field blank per site (where three or more samples are collected) for all chemicals in ground water except pH and electrical conductivity; the bottles containing the field blank are prepared in the field during the sample collection process and returned to the laboratory for analysis; the bottles containing the trip blank are prepared by the laboratory, kept in the cooler on ice for the duration of the sampling event, and returned to the laboratory for analysis as part of the submission.
- ☐ the inclusion of one water trip spike per site for all chemicals in ground water except hydrocarbon fractions, dioxins, furans, pH, and electrical conductivity; the trip spike sample containers are maintained in the cooler on ice for the duration of the sampling event and are returned to the laboratory for analysis as part of the submission.

The results of the duplicate, field blank, trip blank, and trip spike samples are presented along with the tabulated data in the report. Tabulated data are presented to a maximum of two significant digits.

Laboratory Quality Assurance/Quality Control

All laboratory analyses were completed by Maxxam Analytics Inc., a Canadian Association of Environmental Analytical Laboratory (CAEAL) accredited laboratory. Maxxam performed the work following formal written methods and procedures. These methods include all the minimum requirements as specified in the Protocol.

Barenco Inc. has accepted the data provided by Maxxam based on the assurance from Maxxam that as a minimum, the following requirements have been met and documentation to demonstrate compliance can be produced on request:

- ☐ the method performance criteria identified in the Protocol were met;
- ☐ sample storage requirements, pre-analysis processing techniques, and holding times for all sample types as identified in the Protocol were met following receipt and sign-off of the samples from Barenco staff;
- ☐ the results of all laboratory QC samples were within statistically determined control limits and if not, reasons were provided;
- ☐ surrogate recoveries (for organic analyses) were monitored and recorded;
- ☐ details on the precision and accuracy of the data have been recorded and retained and are available from the laboratory should they be required as a result of an MOE audit;
- ☐ the analytical data were reported without blank correction (unless this was clearly identified on the Certificate of Analysis);
- ☐ a Certificate of Analysis with all QA/QC sample data, including surrogate recoveries, has been received from the laboratory and is appended.

A data quality review checklist has been prepared by Barenco for each laboratory submission to ensure that data quality has been reviewed and that the effect of any anomalies has been considered. The checklist is appended with the Certificate of Analysis.

Five ground water field duplicates were collected and submitted for laboratory analysis of benzene, toluene, ethylbenzene, and xylenes (BTEX) during the October 2007 sampling event. The relative percent differences (RPDs) of the ground water field duplicate samples are provided in this attachment. All of the RPDs were either not calculable or within the alert limits for all of the parameters that were analysed. It should be noted that meaningful RPDs cannot be calculated if one or both of the analytical results are less than five times the reporting detection limits (RDLs).

One field blank water sample was submitted during the October 2007 sampling event for laboratory analysis of BTEX. The field blank was prepared in the field following standard sampling protocols. The concentrations of all of the parameters that were analysed were non-detectable.

One laboratory prepared trip blank water sample was submitted during the October 2007 sampling event for analysis of BTEX. The trip blank was prepared by the laboratory following standard protocols. The concentrations of all of the parameters that were analysed were non-detectable.

One laboratory prepared trip spike water sample was submitted during the October 2007 sampling event for analysis of BTEX. The trip spike recoveries ranged from 70 to 85 percent and were within the alert limits.

Results of the field blank, trip blank, and trip spike analyses indicate that field sampling techniques, sample preservatives, sample bottles, sample transportation, or laboratory analysis of the samples contributed a negligible amount to the sample analytical results reported in the laboratory Certificates of Analysis, and to the interpretation of the result described in this report.

GROUND WATER ANALYSIS - Duplicate Samples

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample I.D.	RDL*	03-TH4	DUP1 (03-TH4)	RPD (%)	Alert Limits (%)
Maxxam I.D.		V19176	V19188		
Date		10-Oct-07	10-Oct-07		
Benzene	0.2	1.1	ND	NC	80
Toluene	0.2	ND	ND	NC	80
Ethylbenzene	0.2	ND	ND	NC	80
Xylenes	0.4	ND	ND	NC	80

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

* Reporting detection limits are as listed except as indicated in brackets.

Note: NC means "not calculated" because one or both of the reported concentrations are less than five times the detection limit.

Exceedances of alert limits are in **bold**.

BARENCO INC.

02150

GROUND WATER ANALYSIS - Duplicate Samples

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample I.D.	RDL*	03-TH3	DUP2 (03-TH3)	RPD (%)	Alert Limits (%)
Maxxam I.D.		V19175	V19189		
Date		10-Oct-07	10-Oct-07		
Benzene	0.2	ND	ND	NC	80
Toluene	0.2	ND	ND	NC	80
Ethylbenzene	0.2	ND	ND	NC	80
Xylenes	0.4	ND	ND	NC	80

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

* Reporting detection limits are as listed except as indicated in brackets.

Note: NC means "not calculated" because one or both of the reported concentrations are less than five times the detection limit.

Exceedances of alert limits are in **bold**.

BARENCO INC.

02150

GROUND WATER ANALYSIS - Duplicate Samples

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample I.D.	RDL*	BH90-209	DUP3 (BH90-209)	RPD (%)	Alert Limits (%)
Maxxam I.D.		V22688	V22692		
Date		11-Oct-07	11-Oct-07		
Benzene	0.2	77	74	4	80
Toluene	0.2	30	29	3	80
Ethylbenzene	0.2	58	57	2	80
Xylenes	0.4	270	260	4	80

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

* Reporting detection limits are as listed except as indicated in brackets.

Note: NC means "not calculated" because one or both of the reported concentrations are less than five times the detection limit.

Exceedances of alert limits are in **bold**.

BARENCO INC.

02150

GROUND WATER ANALYSIS - Duplicate Samples

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample I.D.	RDL*	BH90-208	DUP4 (BH90-208)	RPD (%)	Alert Limits (%)
Maxxam I.D.		V22687	V22693		
Date		11-Oct-07	11-Oct-07		
Benzene	2	850	1100	26	80
Toluene	2	ND (1)	ND	NC	80
Ethylbenzene	2	ND (1)	ND	NC	80
Xylenes	4	ND (2)	ND	NC	80

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

* Reporting detection limits are as listed except as indicated in brackets.

Note: NC means "not calculated" because one or both of the reported concentrations are less than five times the detection limit.

Exceedances of alert limits are in **bold**.

BARENCO INC.

02150

GROUND WATER ANALYSIS - Duplicate Samples

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample I.D.	RDL*	BH92-311	DUP5 (BH92-311)	RPD (%)	Alert Limits (%)
Maxxam I.D.		V22686	V24874		
Date		11-Oct-07	11-Oct-07		
Benzene	2	610	500	20	80
Toluene	2	ND (1)	ND	NC	80
Ethylbenzene	2	ND (1)	ND	NC	80
Xylenes	4	ND (2)	ND	NC	80

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

* Reporting detection limits are as listed except as indicated in brackets.

Note: NC means "not calculated" because one or both of the reported concentrations are less than five times the detection limit.

Exceedances of alert limits are in **bold**.

BARENCO INC.

02150

GROUND WATER CHEMICAL ANALYSIS - Quality Control Samples

10 Mississauga Road, Mississauga, Ontario

Sample I.D.	RDL*	F. BLANK	Field Blank Alert Limits	T. BLANK	Trip Blank Alert Limits	T. SPIKE (% recovery)	Trip Spike Alert Limits
Maxxam I.D.		V22771		V22772		V22773	
Date		11-Oct-07		21-Sep-07		01-Oct-07	
Benzene	0.2	ND	1	ND	1	79	70-130%
Toluene	0.2	ND	1	ND	1	81	70-130%
Ethylbenzene	0.2	ND	1	ND	1	70	70-130%
Xylenes	0.4	ND	2	ND	2	85	70-130%

Analysis by Maxxam Analytics Inc.

All results in ppb (ug/L). ND - "not detected" at reporting detection limit (RDL). NA - "not analyzed".

*Reporting detection limits are as listed except as indicated in brackets.

Exceedances of alert limits are shown in **bold**.

BARENCO INC.

02150

APPENDIX B

Region of Peel - Sanitary Sewer Discharge Volume Notification and Sewer Use Agreement

BARENCO

B A R E N C O

**Environmental Engineering
& Site Remediation Services**

Barenco Inc., 2561 Stouffville Road, Suite 202
P.O. Box 295, Gormley, Ontario L0H 1G0
Tel: (416) 222-7232 and (905) 887- 6661
Fax: (905) 887-1999
E-mail: barenco@barenco.ca

July 6, 2007

Region of Peel
3515 Wolfedale Road
Mississauga, Ontario
L5C 1V8

Attention: Ms. Elaine Gilliland, Supervisor, Pollution Control

Dear Madam:

**RE: Imperial Oil, Port Credit—2007 Q2 Sanitary Sewer Discharge Volumes
Agreement Numbers OPD-3.0 and OPG-1.0**

As per the terms of the above-mentioned agreements, please note the following ground water discharge volumes to the sanitary sewer system for the period April 1, 2007 to June 30, 2007, for the purpose of discharge fee calculations.

South Property:	0.0 cubic metres
Marketing Area:	<u>0.0 cubic metres</u>
Total:	0.0 cubic metres

Discharge of ground water to the sanitary sewer system from South Property was suspended on March 5, 2003, and to date has not been restarted.

Discharge of ground water to the sanitary sewer system from Marketing Area was suspended in January 2007, and to date has not been restarted.

If you have any questions, please give me a call at 905-887-6661 extension 245.

Yours very truly,
BARENCO INC.



Viktor Kopetsky, P.Eng.
Environmental Engineer

copy: Zia Hasan, Imperial Oil



Professional Engineers
Ontario

BARENCOEnvironmental Engineering
& Site Remediation Services*20 Years
of Innovation*

October 9, 2007

Region of Peel
3515 Wolfedale Road
Mississauga, Ontario
L5C 1V8Attention: Ms. Elaine Gilliland, Supervisor, Pollution Control

Dear Madam:

RE: Imperial Oil, Port Credit—2007 Q3 Sanitary Sewer Discharge Volumes
Agreement Numbers OPD-3.0 and OPG-1.0

As per the terms of the above-mentioned agreements, please note the following ground water discharge volumes to the sanitary sewer system for the period July 1, 2007 to October 5, 2007, for the purpose of discharge fee calculations.

South Property:	0.0 cubic metres
Marketing Area:	<u>0.0 cubic metres</u>
Total:	0.0 cubic metres

Discharge of ground water to the sanitary sewer system from South Property was suspended on March 5, 2003, and to date has not been restarted.

Discharge of ground water to the sanitary sewer system from Marketing Area was suspended in January 2007, and to date has not been restarted.

If you have any questions, please give me a call at 905-887-6661 extension 245.

Yours very truly,
BARENCO INC.Viktor Kopetsky, P.Eng.
Environmental Engineer

copy: Zia Hasan, Imperial Oil

Professional Engineers
Ontario**APCO**
ASSOCIATION OF PROFESSIONAL ENGINEERS OF ONTARIO



■ ■ ■
Public Works

November 18, 2003
File: OPD 3.0
OPG 1.0

BARENCO INC.
2561 Stouffville Road, Suite 202
Gormley, Ont L0H 1G0

Attention: Todd Ellenor, P.Eng.

Dear Sir:

SUBJECT: Discharge of groundwater to the Sanitary Sewer

We have reviewed your request to discharge groundwater from the former ESSO Refinery (South Property) located at 10 Mississauga Road South in Mississauga and 250 Lakeshore Road West, Mississauga (Marketing Area) to the sanitary sewer. Approval is granted provided the following conditions are met:

- That the discharge meets compliance with Region of Peel By-law 90-90 as amended at all times and adhere to the following schedule:

Benzene	-	50 ug/l
Toluene	-	240 ug/l
Ethyl Benzene	-	24 ug/l
Xylenes	-	3,000 ug/l
Vinyl Chloride	-	20 ug/l
Cis 1,2 Dichloroethylene	-	700 ug/l
1,2 Dichloroethane	-	50 ug/l
Trichloroethylene	-	500 ug/l
Trans 1,2 Dichloroethylene	-	1,000 ug/l

Please note these limits are subject to change.

- That the volume discharged is forwarded to this office within two weeks of the end of each calendar quarter.
- That the discharger agrees to pay a rate of \$4.9845 per 10 m³ of discharge and any costs incurred by the Region of Peel for sampling, damages or additional maintenance resulting from the discharge. This rate is subject to change from time to time.
- That the discharge rate be so as not to cause any overloading of the sanitary sewer.

...2/

BARENCO INC.
November 18, 2003
Page 2

Please note that this approval expires at 12:01 a.m. on January 1, 2006. If you wish to renew this disposal program, you must contact this office by November 1, 2005 for staff to reassess your disposal program.

If you have any questions concerning this matter, please contact Tony Di Cristofaro at this office at (905) 791-7800, ext. 3109.

Yours truly,



Elaine Gilliland, B.Sc.
Supervisor, Pollution Control
Environmental Control
Water and Wastewater Treatment Division

TD/pr

cc: Tony Di Cristofaro, Inspector, EC

December 3, 2007
File: WP PD-03.00
WP PG-01.00

BARENCO
2561 Stouffville Road, Suite 202
Gormley, Ont L0H 1G0

Attention: Viktor Kopetsky, P. Eng.

Dear Sir:

SUBJECT: Discharge of groundwater to the Sanitary Sewer

We have reviewed your request to discharge groundwater from former ESSO Refinery (South Property) located at 10 Mississauga Road South in Mississauga and 250 Lakeshore Road West in Mississauga (Marketing Area) to the sanitary sewer. Please note that this approval will expire 12:01 a.m. on **January 1, 2009**. Approval is granted provided the following conditions are met:

- That the discharge meets compliance with Region of Peel By-law 90-90 at all times.
- That the volume discharged is forwarded to this office within two weeks of completion of the discharge.
- That the discharger agrees to pay a rate of \$5.8136 per 10 m³ of discharge and any costs incurred by the Region of Peel for sampling, damages or additional maintenance resulting from the discharge. This rate is subject to change from time to time.
- That the discharge rate be so as not to cause any overloading of the sanitary sewer.
- That the discharge not occur during or for 2 hours after a precipitation event.
- This approval may be terminated by the Region at any time if one or more of the following has occurred, is occurring or is about to occur, whether continuously or otherwise;
 - (a) the matter discharged is causing damage or about to cause damage to the sewers;
 - (b) the matter discharged is causing or about to cause detriment to the environment, health or safety of any person;
 - (c) the matter discharged is materially increasing maintenance costs to the Region;
 - (d) the matter discharged is causing or about to cause damage to or a dangerous condition in the sewage treatment process or the treatment works;
 - (e) a need exists for a program or system to be introduced or installed to prevent, reduce, or control the discharge of matter into the sewage works by way of a compliance program as set out in the by-law;
 - (f) the treatment facility or capacity is unable to meet with the volume or waste concentration of the effluent collectively discharged into the sewers by all discharges;

Environment, Transportation and Planning Services

3515 Wolfedale Rd., Mississauga, ON L5C 1V8
Tel: 905-791-7800 www.peelregion.ca

BARENCO
December 3, 2007
Page 2

- (g) the charges, which stipulated herein have been in default for not less than 90 days;
 - (h) the matter discharged is causing a health or safety hazard to any sewage works employee;
 - (i) the matter discharged is causing damage to the sewers, materially increasing their maintenance costs or causing a dangerous condition;
 - (j) the matter discharged is causing damage to the sewage treatment process or causing a dangerous condition in the treatment works;
 - (k) the matter discharged is causing the sludge from the sewage works, to fail to meet criteria relating to contaminants for spreading the sludge on agricultural lands under **Ontario's Guidelines for Sewage Sludge Utilization on Agricultural Lands** (as revised January 1996);
 - (l) the matter is causing the sewage works effluent to contravene any requirement by or under the **Ontario Water Resources Act, the Environmental Protection Act** (Ontario) or any other applicable law;
 - (m) the matter is causing a hazard to any person, animal, property, or vegetation;
 - (n) the matter is contrary to the by-law in any way other than as provided herein.
- This approval may be terminated by the Region at any time where there is an emergency situation of immediate threat or danger to any person, property, plant or animal life, or waters, or any conditions of approval are not met.
 - That our office be informed 72 hours prior to discharge.

If you have any questions concerning this matter, please contact Bill Ford at this office at (905) 791-7800, ext. 3108.

Yours truly,



Elaine Gilliland, B.Sc.
Supervisor, Pollution Control
Environmental Control
Wastewater Division

BF/pr

ct: Bill Ford, Inspector, EC

Environment, Transportation and Planning Services

3515 Wolfedale Rd., Mississauga, ON L5C 1V8
Tel: 905-791-7800 www.peelregion.ca

APPENDIX C

Laboratory Certificates of Analysis

Attached are copies of the original Certificates of Analysis provided by the laboratory. The data contained in these analyses is to be read only in conjunction with the report to which it is attached. For interpretation of the chemical data, see the attached text.

All samples are submitted to and reported by the laboratory using purchase order numbers and sample location codes. These are only discernable to persons familiar with the purchase order system and the location codes. For descriptions of the locations of the samples, see the attached text.

Not all data contained in the original laboratory certificate of analysis may have been referenced in the report. Samples may have been submitted as travel or field blanks or as duplicates. Some samples may be for control purposes and represent soil that is no longer on the site and is not relevant to the report.

Since the laboratory data contains scientific terms and references, only trained persons familiar with sampling and laboratory methods should attempt to interpret the raw data.

B A R E N C O

Task Order#: 11050571

Site#:

Site Location: 10 MISSISSAUGA RD, MISSISSAUGA (SOUTH PROPERTY)

Project #: 02150

Your C.O.C. #: 12465, 22167, 22168

Attention: Viktor Kopetskyv

Barenco Inc

2561 Stouffville Rd

PO Box 295

Gormley, ON

L0H 1G0

Report Date: 2007/10/18**CERTIFICATE OF ANALYSIS****MAXXAM JOB #: A7B1730****Received: 2007/10/11, 14:05**

Sample Matrix: Water

Samples Received: 29

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Primary reference
Petroleum Hydro. CCME F1 & BTEX in Water	11	N/A	2007/10/15	CAM SOP-00315	CCME CWS
Petroleum Hydro. CCME F1 & BTEX in Water	18	N/A	2007/10/18	CAM SOP-00315	CCME CWS

Remarks:

Maxxam Analytics has performed all analytical testing herein in accordance with ISO 17025 and the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act. All methodologies comply with this document and are validated for use in the laboratory. The methods and techniques employed in this analysis conform to the performance criteria (detection limits, accuracy and precision) as outlined in the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act.

The CWS PHC methods employed by Maxxam conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following the 'Alberta Environment Draft Addenda to the CWS-PHC, Appendix 6, Validation of Alternate Methods'. Documentation is available upon request. Maxxam has made the following improvements to the CWS-PHC reference benchmark method: (i) Headspace for F1; and, (ii) Mechanical extraction for F2-F4. Note: F4G cannot be added to the C6 to C50 hydrocarbons.

Maxxam Analytics is accredited by SCC (Lab ID 197) for all specific parameters as required by GUCSO and O'Reg 153/04. Maxxam Analytics is limited in liability to the actual cost of analysis unless otherwise agreed in writing. There is no other warranty expressed or implied. Samples will be retained at Maxxam Analytics for three weeks from receipt of data or as per contract.

All data is in statistical control and has met all QC and method performance criteria unless otherwise flagged. All samples were analysed within hold time unless otherwise flagged. All BTEX samples were methanol extracted within 24 hours unless otherwise flagged.

Task Order#: 11050571

Site#:

Site Location: 10 MISSISSAUGA RD, MISSISSAUGA (SOUTH PROPERTY)

Project #: 02150

Your C.O.C. #: 12465, 22167, 22168

Attention: Viktor Kopetskyy

Barenco Inc

2561 Stouffville Rd

PO Box 295

Gormley, ON

L0H 1G0

Report Date: 2007/10/18

CERTIFICATE OF ANALYSIS

-2-

MAXXAM JOB #: A7B1730**Received: 2007/10/11, 14:05**

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key



Malgosia Dancziger

18 Oct 2007 10:37:06 -04:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

MALGOSIA DANCZIGER, Project Manager

Email: Malgosia.Dancziger@maxxamanalytics.com

Phone# (905) 817-5700 Ext:5770

=====

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CAEAL have approved this reporting process and electronic report format.

For Service Group specific validation please refer to the Validation Signature Page

Total cover pages: 2

Page 2 of 25


 Maxxam Job #: A7B1730
 Report Date: 2007/10/18

 Barenco Inc
 Task Order#: 11050571
 Site#:
 Site Location: 10 MISSISSAUGA RD, MISSISSAUGA (SOUTH PROPERTY)
 Project #: 02150

BTEX IN WATER (WATER)

Maxxam ID		V19162	V19162	V19163		
Sampling Date		2007/10/10	2007/10/10	2007/10/10		
		11:30	11:30	15:15		
COC Number		12465	12465	12465		
	Units	BH90-109	BH90-109 Lab-Dup	BH90-110	RDL	QC Batch

Benzene	ug/L	<0.2	<0.2	<0.2	0.2	1382414
Toluene	ug/L	<0.2	<0.2	<0.2	0.2	1382414
Ethylbenzene	ug/L	<0.2	<0.2	<0.2	0.2	1382414
o-Xylene	ug/L	<0.2	<0.2	<0.2	0.2	1382414
p+m-Xylene	ug/L	<0.4	<0.4	<0.4	0.4	1382414
Total Xylenes	ug/L	<0.4	<0.4	<0.4	0.4	1382414
Instrument Surrogate Recovery (%)						
1,4-Difluorobenzene	%	99	102	101		1382414
4-Bromofluorobenzene	%	101	100	100		1382414
D10-Ethylbenzene	%	102	101	99		1382414
D4-1,2-Dichloroethane	%	94	92	99		1382414

 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch


 Maxxam Job #: A7B1730
 Report Date: 2007/10/18

 Barenco Inc
 Task Order#: 11050571
 Site#:
 Site Location: 10 MISSISSAUGA RD, MISSISSAUGA (SOUTH PROPERTY)
 Project #: 02150

BTEX IN WATER (WATER)

Maxxam ID		V19164	V19165	V19166		
Sampling Date		2007/10/10 12:50	2007/10/10 15:30	2007/10/09 18:20		
COC Number		12465	12465	12465		
	Units	BH90-111	BH90-115	BH90-217	RDL	QC Batch
Benzene	ug/L	<0.2	<0.2	<0.2	0.2	1382414
Toluene	ug/L	<0.2	<0.2	<0.2	0.2	1382414
Ethylbenzene	ug/L	<0.2	<0.2	<0.2	0.2	1382414
o-Xylene	ug/L	<0.2	<0.2	<0.2	0.2	1382414
p+m-Xylene	ug/L	<0.4	<0.4	<0.4	0.4	1382414
Total Xylenes	ug/L	<0.4	<0.4	<0.4	0.4	1382414
Instrument Surrogate Recovery (%)						
1,4-Difluorobenzene	%	101	102	101		1382414
4-Bromofluorobenzene	%	100	100	99		1382414
D10-Ethylbenzene	%	103	102	102		1382414
D4-1,2-Dichloroethane	%	95	99	97		1382414
RDL = Reportable Detection Limit QC Batch = Quality Control Batch						


 Maxxam Job #: A7B1730
 Report Date: 2007/10/18

 Barenco Inc
 Task Order#: 11050571
 Site#:
 Site Location: 10 MISSISSAUGA RD, MISSISSAUGA (SOUTH PROPERTY)
 Project #: 02150

BTEX IN WATER (WATER)

Maxxam ID		V19167	V19168	V19169		
Sampling Date		2007/10/09	2007/10/09	2007/10/10		
		17:40	17:00	16:30		
COC Number		12465	12465	12465		
	Units	BH90-211	BH90-218A	BH92-320	RDL	QC Batch
Benzene	ug/L	7.7	<0.2	<0.2	0.2	1382414
Toluene	ug/L	8.9	<0.2	<0.2	0.2	1382414
Ethylbenzene	ug/L	<0.2	<0.2	<0.2	0.2	1382414
o-Xylene	ug/L	0.4	<0.2	<0.2	0.2	1382414
p+m-Xylene	ug/L	1.6	<0.4	<0.4	0.4	1382414
Total Xylenes	ug/L	2.0	<0.4	<0.4	0.4	1382414
Instrument Surrogate Recovery (%)						
1,4-Difluorobenzene	%	100	101	99		1382414
4-Bromofluorobenzene	%	100	100	100		1382414
D10-Ethylbenzene	%	103	104	101		1382414
D4-1,2-Dichloroethane	%	96	97	99		1382414
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						



Maxxam Job #: A7B1730
Report Date: 2007/10/18

Barenco Inc
Task Order#: 11050571
Site#:
Site Location: 10 MISSISSAUGA RD, MISSISSAUGA (SOUTH PROPERTY)
Project #: 02150

BTEX IN WATER (WATER)

Maxxam ID		V19170	V19171	V19172		
Sampling Date		2007/10/10	2007/10/09	2007/10/10		
		17:00	17:15	12:25		
COC Number		12465	12465	22167		
	Units	BH92-322	BH92-314	BH92-326	RDL	QC Batch

Benzene	ug/L	4.5	<0.2	<0.2	0.2	1382414
Toluene	ug/L	<0.2	<0.2	<0.2	0.2	1382414
Ethylbenzene	ug/L	<0.2	<0.2	<0.2	0.2	1382414
o-Xylene	ug/L	<0.2	<0.2	<0.2	0.2	1382414
p+m-Xylene	ug/L	<0.4	<0.4	<0.4	0.4	1382414
Total Xylenes	ug/L	<0.4	<0.4	<0.4	0.4	1382414
Instrument Surrogate Recovery (%)						
1,4-Difluorobenzene	%	101	100	101		1382414
4-Bromofluorobenzene	%	100	99	99		1382414
D10-Ethylbenzene	%	105	104	101		1382414
D4-1,2-Dichloroethane	%	97	93	98		1382414

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch


 Maxxam Job #: A7B1730
 Report Date: 2007/10/18

 Barenco Inc
 Task Order#: 11050571
 Site#:
 Site Location: 10 MISSISSAUGA RD, MISSISSAUGA (SOUTH PROPERTY)
 Project #: 02150

BTEX IN WATER (WATER)

Maxxam ID		V19173	V19174	V19175		
Sampling Date		2007/10/10 14:10	2007/10/10 14:15	2007/10/10 13:45		
COC Number		22167	22167	22167		
	Units	03-TH1	03-TH2	03-TH3	RDL	QC Batch
Benzene	ug/L	<0.2	<0.2	<0.2	0.2	1382414
Toluene	ug/L	<0.2	<0.2	<0.2	0.2	1382414
Ethylbenzene	ug/L	<0.2	<0.2	<0.2	0.2	1382414
o-Xylene	ug/L	<0.2	<0.2	<0.2	0.2	1382414
p+m-Xylene	ug/L	<0.4	<0.4	<0.4	0.4	1382414
Total Xylenes	ug/L	<0.4	<0.4	<0.4	0.4	1382414
Instrument Surrogate Recovery (%)						
1,4-Difluorobenzene	%	102	102	101		1382414
4-Bromofluorobenzene	%	100	99	100		1382414
D10-Ethylbenzene	%	103	103	100		1382414
D4-1,2-Dichloroethane	%	98	98	99		1382414
RDL = Reportable Detection Limit QC Batch = Quality Control Batch						


 Maxxam Job #: A7B1730
 Report Date: 2007/10/18

 Barenco Inc
 Task Order#: 11050571
 Site#:
 Site Location: 10 MISSISSAUGA RD, MISSISSAUGA (SOUTH PROPERTY)
 Project #: 02150

BTEX IN WATER (WATER)

Maxxam ID		V19176	V19177	V19178		
Sampling Date		2007/10/10 13:40	2007/10/10 13:15	2007/10/10 12:15		
COC Number		22167	22167	22167		
	Units	03-TH4	03-TH5	03-TH6	RDL	QC Batch

Benzene	ug/L	1.1	<0.2	<0.2	0.2	1382414
Toluene	ug/L	<0.2	<0.2	<0.2	0.2	1382414
Ethylbenzene	ug/L	<0.2	<0.2	<0.2	0.2	1382414
o-Xylene	ug/L	<0.2	<0.2	<0.2	0.2	1382414
p+m-Xylene	ug/L	<0.4	<0.4	<0.4	0.4	1382414
Total Xylenes	ug/L	<0.4	<0.4	<0.4	0.4	1382414
Instrument Surrogate Recovery (%)						
1,4-Difluorobenzene	%	101	100	100		1382414
4-Bromofluorobenzene	%	99	100	100		1382414
D10-Ethylbenzene	%	104	103	102		1382414
D4-1,2-Dichloroethane	%	97	98	100		1382414

 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch


 Maxxam Job #: A7B1730
 Report Date: 2007/10/18

 Barenco Inc
 Task Order#: 11050571
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 Project #: 02150

BTEX IN WATER (WATER)

Maxxam ID		V19179		V19180	V19180		
Sampling Date		2007/10/10 11:50		2007/10/10 16:00	2007/10/10 16:00		
COC Number		22167		22167	22167		
	Units	03-TH7	QC Batch	TH04-01	TH04-01 Lab-Dup	RDL	QC Batch

Benzene	ug/L	<0.2	1382414	<0.2	<0.2	0.2	1381918
Toluene	ug/L	<0.2	1382414	<0.2	<0.2	0.2	1381918
Ethylbenzene	ug/L	<0.2	1382414	<0.2	<0.2	0.2	1381918
o-Xylene	ug/L	<0.2	1382414	<0.2	<0.2	0.2	1381918
p+m-Xylene	ug/L	<0.4	1382414	<0.4	<0.4	0.4	1381918
Total Xylenes	ug/L	<0.4	1382414	<0.4	<0.4	0.4	1381918
Instrument Surrogate Recovery (%)							
1,4-Difluorobenzene	%	100	1382414	100	100		1381918
4-Bromofluorobenzene	%	99	1382414	108	105		1381918
D10-Ethylbenzene	%	101	1382414	90	91		1381918
D4-1,2-Dichloroethane	%	99	1382414	94	93		1381918

 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch



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Barenco Inc
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BTEX IN WATER (WATER)

Maxxam ID		V19181	V19182	V19183		
Sampling Date		2007/10/10	2007/10/09	2007/10/09		
		15:15	16:50	18:00		
QOC Number		22167	22168	22168		
	Units	TH04-02	BH92-321	BH92-324	RDL	QC Batch

Benzene	ug/L	<0.2	<0.2	<0.2	0.2	1381918
Toluene	ug/L	<0.2	<0.2	<0.2	0.2	1381918
Ethylbenzene	ug/L	<0.2	<0.2	<0.2	0.2	1381918
o-Xylene	ug/L	<0.2	<0.2	<0.2	0.2	1381918
p+m-Xylene	ug/L	<0.4	<0.4	<0.4	0.4	1381918
Total Xylenes	ug/L	<0.4	<0.4	<0.4	0.4	1381918
Instrument Surrogate Recovery (%)						
1,4-Difluorobenzene	%	101	101	99		1381918
4-Bromofluorobenzene	%	107	107	105		1381918
D10-Ethylbenzene	%	90	95	93		1381918
D4-1,2-Dichloroethane	%	90	91	90		1381918

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch


 Maxxam Job #: A7B1730
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 Barenco Inc
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BTEX IN WATER (WATER)

Maxxam ID		V19184	V19185	V19186		
Sampling Date		2007/10/09 18:30	2007/10/10 16:45	2007/10/10 14:40		
COC Number		22168	22168	22168		
	Units	BH92-325	BH92-318A	D2	RDL	QC Batch

Benzene	ug/L	<0.2	<0.2	1.7	0.2	1381918
Toluene	ug/L	<0.2	<0.2	<0.2	0.2	1381918
Ethylbenzene	ug/L	<0.2	<0.2	<0.2	0.2	1381918
o-Xylene	ug/L	<0.2	0.5	<0.2	0.2	1381918
p+m-Xylene	ug/L	<0.4	<0.4	<0.4	0.4	1381918
Total Xylenes	ug/L	<0.4	0.5	<0.4	0.4	1381918
Instrument Surrogate Recovery (%)						
1,4-Difluorobenzene	%	97	98	99		1381918
4-Bromofluorobenzene	%	107	105	105		1381918
D10-Ethylbenzene	%	92	91	92		1381918
D4-1,2-Dichloroethane	%	92	92	92		1381918

 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch


 Maxxam Job #: A7B1730
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BTEX IN WATER (WATER)

Maxxam ID		V19187	V19188	V19189	V19190		
Sampling Date		2007/10/10 17:05	2007/10/10	2007/10/10	2007/10/10 10:30		
COC Number		22168	22168	22168	22168		
	Units	F	DUP1	DUP2	BH92-309	RDL	QC Batch

Benzene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	1381918
Toluene	ug/L	1.0	<0.2	<0.2	<0.2	0.2	1381918
Ethylbenzene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	1381918
o-Xylene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	1381918
p+m-Xylene	ug/L	<0.4	<0.4	<0.4	<0.4	0.4	1381918
Total Xylenes	ug/L	<0.4	<0.4	<0.4	<0.4	0.4	1381918
Instrument Surrogate Recovery (%)							
1,4-Difluorobenzene	%	101	100	99	99		1381918
4-Bromofluorobenzene	%	106	106	106	105		1381918
D10-Ethylbenzene	%	93	92	95	92		1381918
D4-1,2-Dichloroethane	%	93	93	97	95		1381918

 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch



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Site#:
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Project #: 02150

Test Summary

Maxxam ID V19162
Sample ID BH90-109
Matrix Water
Collected 2007/10/10
Shipped 2007/10/10
Received 2007/10/11

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1382414	2007/10/15	2007/10/16	AGU

Maxxam ID V19162 Dup
Sample ID BH90-109
Matrix Water
Collected 2007/10/10
Shipped 2007/10/10
Received 2007/10/11

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1382414	2007/10/15	2007/10/16	AGU

Maxxam ID V19163
Sample ID BH90-110
Matrix Water
Collected 2007/10/10
Shipped 2007/10/10
Received 2007/10/11

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1382414	2007/10/15	2007/10/16	AGU

Maxxam ID V19164
Sample ID BH90-111
Matrix Water
Collected 2007/10/10
Shipped 2007/10/10
Received 2007/10/11

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1382414	2007/10/15	2007/10/16	AGU

Maxxam ID V19165
Sample ID BH90-115
Matrix Water
Collected 2007/10/10
Shipped 2007/10/10
Received 2007/10/11

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1382414	2007/10/15	2007/10/16	AGU

Maxxam ID V19166
Sample ID BH90-217
Matrix Water
Collected 2007/10/08
Shipped 2007/10/10
Received 2007/10/11

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1382414	2007/10/15	2007/10/16	AGU


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 Barenco Inc
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Test Summary

Maxxam ID	V19167	Collected	2007/10/09
Sample ID	BH90-211	Shipped	2007/10/10
Matrix	Water	Received	2007/10/11

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1382414	2007/10/15	2007/10/16	AGU

Maxxam ID	V19168	Collected	2007/10/09
Sample ID	BH90-218A	Shipped	2007/10/10
Matrix	Water	Received	2007/10/11

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1382414	2007/10/15	2007/10/16	AGU

Maxxam ID	V19169	Collected	2007/10/10
Sample ID	BH92-320	Shipped	2007/10/10
Matrix	Water	Received	2007/10/11

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1382414	2007/10/15	2007/10/16	AGU

Maxxam ID	V19170	Collected	2007/10/10
Sample ID	BH92-322	Shipped	2007/10/10
Matrix	Water	Received	2007/10/11

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1382414	2007/10/15	2007/10/16	AGU

Maxxam ID	V19171	Collected	2007/10/09
Sample ID	BH92-314	Shipped	2007/10/10
Matrix	Water	Received	2007/10/11

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1382414	2007/10/15	2007/10/16	AGU

Maxxam ID	V19172	Collected	2007/10/10
Sample ID	BH92-326	Shipped	2007/10/10
Matrix	Water	Received	2007/10/11

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1382414	2007/10/15	2007/10/16	AGU


 Maxxam Job #: A7B1730
 Report Date: 2007/10/18

 Barenco Inc
 Task Order#: 11050571
 Site#:
 Site Location: 10 MISSISSAUGA RD, MISSISSAUGA (SOUTH PROPERTY)
 Project #: 02150

Test Summary

Maxxam ID	V19173	Collected	2007/10/10
Sample ID	03-TH1	Shipped	2007/10/10
Matrix	Water	Received	2007/10/11

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1382414	2007/10/15	2007/10/16	AGU

Maxxam ID	V19174	Collected	2007/10/10
Sample ID	03-TH2	Shipped	2007/10/10
Matrix	Water	Received	2007/10/11

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1382414	2007/10/15	2007/10/16	AGU

Maxxam ID	V19175	Collected	2007/10/10
Sample ID	03-TH3	Shipped	2007/10/10
Matrix	Water	Received	2007/10/11

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1382414	2007/10/15	2007/10/16	AGU

Maxxam ID	V19176	Collected	2007/10/10
Sample ID	03-TH4	Shipped	2007/10/10
Matrix	Water	Received	2007/10/11

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1382414	2007/10/15	2007/10/16	AGU

Maxxam ID	V19177	Collected	2007/10/10
Sample ID	03-TH5	Shipped	2007/10/10
Matrix	Water	Received	2007/10/11

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1382414	2007/10/15	2007/10/16	AGU

Maxxam ID	V19178	Collected	2007/10/10
Sample ID	03-TH6	Shipped	2007/10/10
Matrix	Water	Received	2007/10/11

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1382414	2007/10/15	2007/10/16	AGU


 Maxxam Job #: A7B1730
 Report Date: 2007/10/18

 Barenco Inc
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 Project #: 02150

Test Summary

Maxxam ID	V19179	Collected	2007/10/10
Sample ID	03-TH7	Shipped	2007/10/10
Matrix	Water	Received	2007/10/11

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1382414	2007/10/15	2007/10/16	AGU

Maxxam ID	V19180	Collected	2007/10/10
Sample ID	TH04-01	Shipped	2007/10/10
Matrix	Water	Received	2007/10/11

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1381918	2007/10/14	2007/10/15	ABD

Maxxam ID	V19180 Dup	Collected	2007/10/10
Sample ID	TH04-01	Shipped	2007/10/10
Matrix	Water	Received	2007/10/11

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1381918	2007/10/14	2007/10/15	ABD

Maxxam ID	V19181	Collected	2007/10/10
Sample ID	TH04-02	Shipped	2007/10/10
Matrix	Water	Received	2007/10/11

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1381918	2007/10/14	2007/10/15	ABD

Maxxam ID	V19182	Collected	2007/10/09
Sample ID	BH92-321	Shipped	2007/10/10
Matrix	Water	Received	2007/10/11

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1381918	2007/10/14	2007/10/15	ABD

Maxxam ID	V19183	Collected	2007/10/09
Sample ID	BH92-324	Shipped	2007/10/10
Matrix	Water	Received	2007/10/11

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1381918	2007/10/14	2007/10/15	ABD


 Maxxam Job #: A7B1730
 Report Date: 2007/10/18

 Barenco Inc
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 Project #: 02150

Test Summary

Maxxam ID	V19184	Collected	2007/10/09
Sample ID	BH92-325	Shipped	2007/10/10
Matrix	Water	Received	2007/10/11

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1381918	2007/10/14	2007/10/15	ABD

Maxxam ID	V19185	Collected	2007/10/10
Sample ID	BH92-318A	Shipped	2007/10/10
Matrix	Water	Received	2007/10/11

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1381918	2007/10/14	2007/10/15	ABD

Maxxam ID	V19186	Collected	2007/10/10
Sample ID	D2	Shipped	2007/10/10
Matrix	Water	Received	2007/10/11

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1381918	2007/10/14	2007/10/15	ABD

Maxxam ID	V19187	Collected	2007/10/10
Sample ID	F	Shipped	2007/10/10
Matrix	Water	Received	2007/10/11

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1381918	2007/10/14	2007/10/15	ABD

Maxxam ID	V19188	Collected	2007/10/10
Sample ID	DUP1	Shipped	2007/10/10
Matrix	Water	Received	2007/10/11

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1381918	2007/10/14	2007/10/15	ABD

Maxxam ID	V19189	Collected	2007/10/10
Sample ID	DUP2	Shipped	2007/10/10
Matrix	Water	Received	2007/10/11

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1381918	2007/10/14	2007/10/15	ABD



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Barenco Inc
Task Order#: 11050571
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Project #: 02150

Test Summary

Maxxam ID V19190
Sample ID BH92-309
Matrix Water

Collected 2007/10/10
Shipped 2007/10/10
Received 2007/10/11

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1381918	2007/10/14	2007/10/15	ABD



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Package 1	2.3°C
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Each temperature is the average of up to three cooler temperatures taken at receipt

GENERAL COMMENTS

Results relate only to the items tested.



Barenco Inc
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Quality Assurance Report

Maxxam Job Number: A7B1730

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1381918 ABD	Method Blank	1,4-Difluorobenzene	2007/10/15		99	%	70 - 130
		4-Bromofluorobenzene	2007/10/15		104	%	70 - 130
		D10-Ethylbenzene	2007/10/15		88	%	70 - 130
		D4-1,2-Dichloroethane	2007/10/15		94	%	70 - 130
		Benzene	2007/10/15	<0.2		ug/L	
		Toluene	2007/10/15	<0.2		ug/L	
		Ethylbenzene	2007/10/15	<0.2		ug/L	
		o-Xylene	2007/10/15	<0.2		ug/L	
		p+m-Xylene	2007/10/15	<0.4		ug/L	
		Total Xylenes	2007/10/15	<0.4		ug/L	
1382414 AGU	Method Blank	1,4-Difluorobenzene	2007/10/16		102	%	70 - 130
		4-Bromofluorobenzene	2007/10/16		99	%	70 - 130
		D10-Ethylbenzene	2007/10/16		101	%	70 - 130
		D4-1,2-Dichloroethane	2007/10/16		99	%	70 - 130
		Benzene	2007/10/16	<0.2		ug/L	
		Toluene	2007/10/16	<0.2		ug/L	
		Ethylbenzene	2007/10/16	<0.2		ug/L	
		o-Xylene	2007/10/16	<0.2		ug/L	
		p+m-Xylene	2007/10/16	<0.4		ug/L	
		Total Xylenes	2007/10/16	<0.4		ug/L	
	RPD [V19162-01]	Benzene	2007/10/16	NC		%	40
		Toluene	2007/10/16	NC		%	40
		Ethylbenzene	2007/10/16	NC		%	40
		o-Xylene	2007/10/16	NC		%	40
		p+m-Xylene	2007/10/16	NC		%	40
		Total Xylenes	2007/10/16	NC		%	40
1381918 ABD	RPD [V19180-01]	Benzene	2007/10/15	NC		%	40
		Toluene	2007/10/15	NC		%	40
		Ethylbenzene	2007/10/15	NC		%	40
		o-Xylene	2007/10/15	NC		%	40
		p+m-Xylene	2007/10/15	NC		%	40
		Total Xylenes	2007/10/15	NC		%	40
	MATRIX SPIKE [V19180-01]	1,4-Difluorobenzene	2007/10/15		98	%	70 - 130
		4-Bromofluorobenzene	2007/10/15		106	%	70 - 130
		D10-Ethylbenzene	2007/10/15		92	%	70 - 130
		D4-1,2-Dichloroethane	2007/10/15		94	%	70 - 130
		Benzene	2007/10/15		90	%	70 - 130
		Toluene	2007/10/15		93	%	70 - 130
		Ethylbenzene	2007/10/15		89	%	70 - 130
		o-Xylene	2007/10/15		95	%	70 - 130
		p+m-Xylene	2007/10/15		94	%	70 - 130
1382414 AGU	MATRIX SPIKE [V18162-01]	1,4-Difluorobenzene	2007/10/16		99	%	70 - 130
		4-Bromofluorobenzene	2007/10/16		101	%	70 - 130
		D10-Ethylbenzene	2007/10/16		103	%	70 - 130
		D4-1,2-Dichloroethane	2007/10/16		93	%	70 - 130
		Benzene	2007/10/16		84	%	70 - 130
		Toluene	2007/10/16		93	%	70 - 130
		Ethylbenzene	2007/10/16		91	%	70 - 130
		o-Xylene	2007/10/16		93	%	70 - 130
		p+m-Xylene	2007/10/16		96	%	70 - 130
1381918 ABD	LCS	1,4-Difluorobenzene	2007/10/15		97	%	70 - 130
		4-Bromofluorobenzene	2007/10/15		107	%	70 - 130
		D10-Ethylbenzene	2007/10/15		93	%	70 - 130



Barenco Inc
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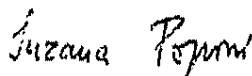
Quality Assurance Report (Continued)

Maxxam Job Number: A7B1730

QA/QC Batch			Date Analyzed					
Num Init	QC Type	Parameter	yyyy/mm/dd	Value	Recovery	Units	QC Limits	
1381918 ABD	LCS	D4-1,2-Dichloroethane	2007/10/15		94	%	70 - 130	
		Benzene	2007/10/15		88	%	70 - 130	
		Toluene	2007/10/15		91	%	70 - 130	
		Ethylbenzene	2007/10/15		87	%	70 - 130	
		o-Xylene	2007/10/15		94	%	70 - 130	
1382414 AGU	LCS	p+m-Xylene	2007/10/15		91	%	70 - 130	
		1,4-Difluorobenzene	2007/10/16		99	%	70 - 130	
		4-Bromofluorobenzene	2007/10/16		100	%	70 - 130	
		D10-Ethylbenzene	2007/10/16		100	%	70 - 130	
		D4-1,2-Dichloroethane	2007/10/16		95	%	70 - 130	
		Benzene	2007/10/16		83	%	70 - 130	
		Toluene	2007/10/16		87	%	70 - 130	
		Ethylbenzene	2007/10/16		84	%	70 - 130	
		o-Xylene	2007/10/16		87	%	70 - 130	
		p+m-Xylene	2007/10/16		89	%	70 - 130	
NC = Non-calculable RPD = Relative Percent Difference								

Validation Signature Page**Maxxam Job #: A7B1730**

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



SUZANA POPOVIC, Supervisor, Hydrocarbons

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CAEAL have approved this reporting process and electronic report format.

Maxxam

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Emergency: (416) 892-8957

10L/MAXXAM CHAIN-OF-CUSTODY RECORD

Page 1 of 2

Col C# 1246

COMPANY NAME Bairdco		PHONE 905-887-6661	
COMPANY ADDRESS 2561 Steuffville Rd. Georgetown, ON L0H 1G0		FAX 905-887-1999	
SAMPLE NAME (PRINT) Viktor Kopetskiy		CLIENT PROJECT (PRINT) 02150	
FIELD SAMPLE ID BH90-103		PROJECT MANAGER Viktor Kopetskiy	
DATE 07/10/10		TIME 11:30	
LOCATION 10 Mile Creek (South property)		REGULATORY CRITERIA / OF TIGATION LIMITS 0.15 3/04 Table 2	
SPECIAL INSTRUCTIONS The bottles may be present due to degrading		MAGNUM JOB # A7B1730	
SAMPLES ENTERED BY WAC/AK		TURNDOWN TIME Standard (10 days) <input checked="" type="checkbox"/> Rush (3 days) <input type="checkbox"/> Rush (2 days) <input type="checkbox"/> Rush (1 day) <input type="checkbox"/> Rush (same day) <input type="checkbox"/>	
CUSTOMER NAME Zia Hassan		CUSTOMER NAME W	
DATE 07/10/10		DATE 2007/10/11	
TIME 21:00		TIME 14:05	
SIGNATURE [Signature]		SIGNATURE [Signature]	

Maxxam

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IDL/MAXXAM CHAIN-OF-CUSTODY RECORD

Page 2 of 3

C-01C# 22167

COMPANY NAME		PHONE		FAX		CLIENT PROJECT ID (P)		PROJECT MANAGER		MAXXAM LAB		MAXXAM JOB #		MAXXAM ORDER #		MAXXAM ORDER #		MAXXAM ORDER #		MAXXAM ORDER #	
COMPANY ADDRESS		PROJECT ADDRESS		PROJECT ADDRESS		PROJECT ADDRESS		PROJECT ADDRESS		PROJECT ADDRESS		PROJECT ADDRESS		PROJECT ADDRESS		PROJECT ADDRESS		PROJECT ADDRESS		PROJECT ADDRESS	
2561 Staufflin Rd.		2561 Staufflin Rd.		2561 Staufflin Rd.		2561 Staufflin Rd.		2561 Staufflin Rd.		2561 Staufflin Rd.		2561 Staufflin Rd.		2561 Staufflin Rd.		2561 Staufflin Rd.		2561 Staufflin Rd.		2561 Staufflin Rd.	
Germantown, OH 43160		Germantown, OH 43160		Germantown, OH 43160		Germantown, OH 43160		Germantown, OH 43160		Germantown, OH 43160		Germantown, OH 43160		Germantown, OH 43160		Germantown, OH 43160		Germantown, OH 43160		Germantown, OH 43160	
SAMPLER NAME (PRINT)		SAMPLER NAME (PRINT)		SAMPLER NAME (PRINT)		SAMPLER NAME (PRINT)		SAMPLER NAME (PRINT)		SAMPLER NAME (PRINT)		SAMPLER NAME (PRINT)		SAMPLER NAME (PRINT)		SAMPLER NAME (PRINT)		SAMPLER NAME (PRINT)		SAMPLER NAME (PRINT)	
Victor Kopeckyy		Victor Kopeckyy		Victor Kopeckyy		Victor Kopeckyy		Victor Kopeckyy		Victor Kopeckyy		Victor Kopeckyy		Victor Kopeckyy		Victor Kopeckyy		Victor Kopeckyy		Victor Kopeckyy	
DATE		DATE		DATE		DATE		DATE		DATE		DATE		DATE		DATE		DATE		DATE	
07/10/10		07/10/10		07/10/10		07/10/10		07/10/10		07/10/10		07/10/10		07/10/10		07/10/10		07/10/10		07/10/10	
TIME		TIME		TIME		TIME		TIME		TIME		TIME		TIME		TIME		TIME		TIME	
11:10		11:10		11:10		11:10		11:10		11:10		11:10		11:10		11:10		11:10		11:10	
14:15		14:15		14:15		14:15		14:15		14:15		14:15		14:15		14:15		14:15		14:15	
13:45		13:45		13:45		13:45		13:45		13:45		13:45		13:45		13:45		13:45		13:45	
13:40		13:40		13:40		13:40		13:40		13:40		13:40		13:40		13:40		13:40		13:40	
13:15		13:15		13:15		13:15		13:15		13:15		13:15		13:15		13:15		13:15		13:15	
12:15		12:15		12:15		12:15		12:15		12:15		12:15		12:15		12:15		12:15		12:15	
11:50		11:50		11:50		11:50		11:50		11:50		11:50		11:50		11:50		11:50		11:50	
10:00		10:00		10:00		10:00		10:00		10:00		10:00		10:00		10:00		10:00		10:00	
15:15		15:15		15:15		15:15		15:15		15:15		15:15		15:15		15:15		15:15		15:15	
11:10		11:10		11:10		11:10		11:10		11:10		11:10		11:10		11:10		11:10		11:10	
14:15		14:15		14:15		14:15		14:15		14:15		14:15		14:15		14:15		14:15		14:15	
13:45		13:45		13:45		13:45		13:45		13:45		13:45		13:45		13:45		13:45		13:45	
13:40		13:40		13:40		13:40		13:40		13:40		13:40		13:40		13:40		13:40		13:40	
13:15		13:15		13:15		13:15		13:15		13:15		13:15		13:15		13:15		13:15		13:15	
12:15		12:15		12:15		12:15		12:15		12:15		12:15		12:15		12:15		12:15		12:15	
11:50		11:50		11:50		11:50		11:50		11:50		11:50		11:50		11:50		11:50		11:50	
10:00																					

Maxxam

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IOL/MAXXAM CHAIN-OF-CUSTODY RECORD

Page 3 of 3

C of C # 22168

COMPANY NAME Perkins		PHONE 905 887 6651		PROJECT 905 887 1999		CLIENT PROJECT ID (P)		PROJECT NAME (P)		PROJECT MANAGER Vitor Kopsky		PROJECT ID C2150	
COMPANY ADDRESS 2561 Steeles Ave. E. Brimley, ON L6H 1G2		SAMPLER NAME (PRINT) Vitor Kopsky		FIELD NAME (P)		MATRIX (SPEC #)		CONTAINERS		TIME		DATE	
BH92-321		V19182		GW		4		01/10/09		18:50		X	
BH92-324		V19183		4		4		18:00		X			
BH92-325		V19184		4		4		18:30		X			
BH92-318A		V19185		4		01/10/10		16:45		X			
D2		V19186		4		4		18:40		X			
F		V19187		4		4		18:05		X			
DUP1		V19188		4		4		NA		X			
DUP2		V19189		4		4		NA		X			
3492-308		V19190		GW		4		07/10/10		16:30		X	
LOCATION 10 Mississauga (South property)		PROJECT ID 11050571		PROJECT ID 0. Reg. 153/04		TABLE Table 2		SPECIES They are not present due to degassing		SPECIES Table 2		SPECIES Table 2	
CONTACT Zia Hasan		CONTACT Zia Hasan		CONTACT Zia Hasan		CONTACT Zia Hasan		CONTACT Zia Hasan		CONTACT Zia Hasan		CONTACT Zia Hasan	
DATE 2/2/09		DATE 01/10/10		DATE 20:00		DATE 01/10/10		DATE 14:05		DATE 14:05		DATE 14:05	
TIME 21:23°C		TIME 21:23°C		TIME 21:23°C		TIME 21:23°C		TIME 21:23°C		TIME 21:23°C		TIME 21:23°C	
SAMPLER C2150-1		SAMPLER C2150-1		SAMPLER C2150-1		SAMPLER C2150-1		SAMPLER C2150-1		SAMPLER C2150-1		SAMPLER C2150-1	
SAMPLER 21:23°C		SAMPLER 21:23°C		SAMPLER 21:23°C		SAMPLER 21:23°C		SAMPLER 21:23°C		SAMPLER 21:23°C		SAMPLER 21:23°C	
SAMPLER 21:23°C		SAMPLER 21:23°C		SAMPLER 21:23°C		SAMPLER 21:23°C		SAMPLER 21:23°C		SAMPLER 21:23°C		SAMPLER 21:23°C	
SAMPLER 21:23°C		SAMPLER 21:23°C		SAMPLER 21:23°C		SAMPLER 21:23°C		SAMPLER 21:23°C		SAMPLER 21:23°C		SAMPLER 21:23°C	
SAMPLER 21:23°C		SAMPLER 21:23°C		SAMPLER 21:23°C		SAMPLER 21:23°C		SAMPLER 21:23°C		SAMPLER 21:23°C		SAMPLER 21:23°C	
SAMPLER 21:23°C		SAMPLER 21:23°C		SAMPLER 21:23°C		SAMPLER 21:23°C		SAMPLER 21:23°C		SAMPLER 21:23°C		SAMPLER 21:23°C	
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SAMPLER 21:23°C		SAMPLER 21:23°C		SAMPLER 21:23°C		SAMPLER 21:23°C		SAMPLER 21:23°C		SAMPLER 21:23°C		SAMPLER 21:23°C	
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SAMPLER 21:23°C		SAMPLER 21:23°C		SAMPLER 21:23°C		SAMPLER 21:23°C		SAMPLER 21:23°C		SAMPLER 21:23°C		SAMPLER 21:23°C	
SAMPLER 21:23°C		SAMPLER 21:23°C		SAMPLER 21:23°C		SAMPLER 21:23°C		SAMPLER 21:23°C		SAMPLER 21:23°C		SAMPLER 21:23°C	
SAMPLER 21:23°C		SAMPLER 21:23°C		SAMPLER 21:23°C		SAMPLER 21:23°C		SAMPLER 21:23°C		SAMPLER 21:23°C		SAMPLER 21:23°C	
SAMPLER 21:23°C		SAMPLER 21:23°C		SAMPLER 21:23°C									

DATA QUALITY REVIEW CHECKLIST - IMPERIAL OIL PROJECTS

Consultant: <u>Barenco Inc.</u>		Sampling Date: <u>October 9-10, 2007</u>	
Location: <u>10 Mississauga Rd., Mississauga, ON</u>		Laboratory: <u>Maxxam Analytics Inc.</u>	
Consultant Project Number: <u>02150</u>		Sample Submission Number: <u>A7B1730</u>	

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery	X			-all lab QC samples are within acceptance criteria
Extraction Surrogate Recovery	X			
Method Blank Concentration	X			
Matrix Duplicate RPD	X			
Matrix Spike Recovery	X			
Lab Control Sample Recovery	X			

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			X	- all field QC samples are within alert limits
Trip Blank Concentration			X	
Field Duplicate RPD	X			

Has CoA been signed off (Yes/No)? Yes

Has lab warranted all tests were in statistical control in CoA (Yes/No)? Yes

Has lab warranted all tests were analyzed following SOP's in CoA (Yes/No)? Yes

Were all samples analyzed within hold times (Yes/No)? Yes

All volatiles samples methanol extracted (if required) within 48 hours (Yes/No)? Not Required

Is Chain of Custody completed and signed (Yes/No)? Yes

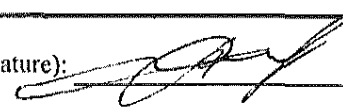
Were sample temperatures acceptable when they reached lab (Yes/No)? Yes

Was a Data Quality Waiver (DQW) issued (Yes/No)? No

NA Date of Response: NA

Is data considered to be reliable (Yes/No)? Yes

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): <u>Viktor Kopetsky</u>	Data Reviewed by (Signature): 
Date: <u>October 30, 2007</u>	

Task Order#: 11050571

Site#:

Site Location: 10 MISSISSAUGA RD, MISSISSAUGA (SOUTH PROPERTY)

Project #: 02150

Your C.O.C. #: 22170, 22171

Attention: Viktor Kopetskyv

Barenco Inc

2561 Stouffville Rd

PO Box 295

Gormley, ON

L0H 1G0

Report Date: 2007/10/18

CERTIFICATE OF ANALYSIS**MAXXAM JOB #: A7B2520****Received: 2007/10/12, 16:32**

Sample Matrix: Water

Samples Received: 11

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Primary reference
Petroleum Hydro. CCME F1 & BTEX in Water	11	N/A	2007/10/17	CAM SOP-00315	CCME CWS

Remarks:

Maxxam Analytics has performed all analytical testing herein in accordance with ISO 17025 and the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act. All methodologies comply with this document and are validated for use in the laboratory. The methods and techniques employed in this analysis conform to the performance criteria (detection limits, accuracy and precision) as outlined in the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act.

The CWS PHC methods employed by Maxxam conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following the 'Alberta Environment Draft Addenda to the CWS-PHC, Appendix 6, Validation of Alternate Methods'. Documentation is available upon request. Maxxam has made the following improvements to the CWS-PHC reference benchmark method: (i) Headspace for F1; and, (ii) Mechanical extraction for F2-F4. Note: F4G cannot be added to the C6 to C50 hydrocarbons.

Maxxam Analytics is accredited by SCC (Lab ID 197) for all specific parameters as required by GUCSO and O'Reg 153/04. Maxxam Analytics is limited in liability to the actual cost of analysis unless otherwise agreed in writing. There is no other warranty expressed or implied. Samples will be retained at Maxxam Analytics for three weeks from receipt of data or as per contract.

All data is in statistical control and has met all QC and method performance criteria unless otherwise flagged. All samples were analysed within hold time unless otherwise flagged. All BTEX samples were methanol extracted within 24 hours unless otherwise flagged.

Task Order#: 11050571

Site#:

Site Location: 10 MISSISSAUGA RD, MISSISSAUGA (SOUTH PROPERTY)

Project #: 02150

Your C.O.C. #: 22170, 22171

Attention: Viktor Kopetsky

Barenco Inc

2561 Stouffville Rd

PO Box 295

Gormley, ON

L0H 1G0

Report Date: 2007/10/18**CERTIFICATE OF ANALYSIS**

-2-

MAXXAM JOB #: A7B2520**Received: 2007/10/12, 16:32**

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key



Malgosia Dancziger

18 Oct 2007 14:36:05 -04:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

MALGOSIA DANCZIGER, Project Manager

Email: Malgosia.Dancziger@maxxamanalytics.com

Phone# (905) 817-5700 Ext:5770

=====

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CAEAL have approved this reporting process and electronic report format.

For Service Group specific validation please refer to the Validation Signature Page

Total cover pages: 2

Page 2 of 14


 Maxxam Job #: A7B2520
 Report Date: 2007/10/18

 Barenco Inc
 Task Order#: 11050571
 Site#:
 Site Location: 10 MISSISSAUGA RD, MISSISSAUGA (SOUTH PROPERTY)
 Project #: 02150

BTEX IN WATER (WATER)

Maxxam ID		V22684	V22684	V22685		
Sampling Date		2007/10/11 11:50	2007/10/11 11:50	2007/10/11 14:30		
COC Number		22170	22170	22170		
	Units	BH90-216	BH90-216 Lab-Dup	BH90-205	RDL	QC Batch

Benzene	ug/L	<0.2	<0.2	7.8	0.2	1383007
Toluene	ug/L	<0.2	<0.2	3.3	0.2	1383007
Ethylbenzene	ug/L	<0.2	<0.2	<0.2	0.2	1383007
o-Xylene	ug/L	<0.2	<0.2	0.5	0.2	1383007
p+m-Xylene	ug/L	<0.4	<0.4	4.8	0.4	1383007
Total Xylenes	ug/L	<0.4	<0.4	5.3	0.4	1383007
Instrument Surrogate Recovery (%)						
1,4-Difluorobenzene	%	109	110	106		1383007
4-Bromofluorobenzene	%	96	97	96		1383007
D10-Ethylbenzene	%	83	85	86		1383007
D4-1,2-Dichloroethane	%	91	91	88		1383007

 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch


 Maxxam Job #: A7B2520
 Report Date: 2007/10/18

 Barenco Inc
 Task Order#: 11050571
 Site#:
 Site Location: 10 MISSISSAUGA RD, MISSISSAUGA (SOUTH PROPERTY)
 Project #: 02150

BTEX IN WATER (WATER)

Maxxam ID		V22686	V22687	V22688		
Sampling Date		2007/10/11 15:10	2007/10/11 14:00	2007/10/11 13:30		
COC Number		22170	22170	22170		
	Units	BH92-311	BH90-208	BH90-209	RDL	QC Batch

Benzene	ug/L	610	850	77	1	1383007
Toluene	ug/L	<1	<1	30	1	1383007
Ethylbenzene	ug/L	<1	<1	58	1	1383007
o-Xylene	ug/L	<1	<1	30	1	1383007
p+m-Xylene	ug/L	<2	<2	240	2	1383007
Total Xylenes	ug/L	<2	<2	270	2	1383007
Instrument Surrogate Recovery (%)						
1,4-Difluorobenzene	%	106	106	107		1383007
4-Bromofluorobenzene	%	96	97	97		1383007
D10-Ethylbenzene	%	76	75	89		1383007
D4-1,2-Dichloroethane	%	88	89	88		1383007

 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch


 Maxxam Job #: A7B2520
 Report Date: 2007/10/18

 Barenco Inc
 Task Order#: 11050571
 Site#:
 Site Location: 10 MISSISSAUGA RD, MISSISSAUGA (SOUTH PROPERTY)
 Project #: 02150

BTEX IN WATER (WATER)

Maxxam ID		V22689	V22690	V22691		
Sampling Date		2007/10/11 13:25	2007/10/11 11:10	2007/10/11 12:10		
COC Number		22170	22170	22170		
	Units	BH92-307	BH90-212	BH90-210	RDL	QC Batch
Benzene	ug/L	<0.2	<0.2	<0.2	0.2	1383007
Toluene	ug/L	<0.2	<0.2	<0.2	0.2	1383007
Ethylbenzene	ug/L	<0.2	<0.2	<0.2	0.2	1383007
o-Xylene	ug/L	<0.2	<0.2	<0.2	0.2	1383007
p+m-Xylene	ug/L	<0.4	<0.4	<0.4	0.4	1383007
Total Xylenes	ug/L	<0.4	<0.4	<0.4	0.4	1383007
Instrument Surrogate Recovery (%)						
1,4-Difluorobenzene	%	107	109	108		1383007
4-Bromofluorobenzene	%	97	95	95		1383007
D10-Ethylbenzene	%	86	89	87		1383007
D4-1,2-Dichloroethane	%	89	90	88		1383007
RDL = Reportable Detection Limit QC Batch = Quality Control Batch						


 Maxxam Job #: A7B2520
 Report Date: 2007/10/18

 Barenco Inc
 Task Order#: 11050571
 Site#:
 Site Location: 10 MISSISSAUGA RD, MISSISSAUGA (SOUTH PROPERTY)
 Project #: 02150

BTEX IN WATER (WATER)

Maxxam ID		V22692		V22693		
Sampling Date		2007/10/11		2007/10/11		
COC Number		22170		22170		
	Units	DUP3	RDL	DUP4	RDL	QC Batch

Benzene	ug/L	74	1	1100	2	1383007
Toluene	ug/L	29	1	<2	2	1383007
Ethylbenzene	ug/L	57	1	<2	2	1383007
o-Xylene	ug/L	29	1	<2	2	1383007
p+m-Xylene	ug/L	230	2	<4	4	1383007
Total Xylenes	ug/L	260	2	<4	4	1383007
Instrument Surrogate Recovery (%)						
1,4-Difluorobenzene	%	107		105		1383007
4-Bromofluorobenzene	%	97		96		1383007
D10-Ethylbenzene	%	87		78		1383007
D4-1,2-Dichloroethane	%	88		89		1383007

 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch



Maxxam Job #: A7B2520
Report Date: 2007/10/18

Barenco Inc
Task Order#: 11050571
Site#:
Site Location: 10 MISSISSAUGA RD, MISSISSAUGA (SOUTH PROPERTY)
Project #: 02150

BTEX IN WATER (WATER)

Maxxam ID		V22694		
Sampling Date		2007/10/11		
		11:45		
COC Number		22171		
	Units	A	RDL	QC Batch
Benzene	ug/L	<0.2	0.2	1383007
Toluene	ug/L	3.2	0.2	1383007
Ethylbenzene	ug/L	<0.2	0.2	1383007
o-Xylene	ug/L	<0.2	0.2	1383007
p+m-Xylene	ug/L	<0.4	0.4	1383007
Total Xylenes	ug/L	<0.4	0.4	1383007
Instrument Surrogate Recovery (%)				
1,4-Difluorobenzene	%	107		1383007
4-Bromofluorobenzene	%	96		1383007
D10-Ethylbenzene	%	91		1383007
D4-1,2-Dichloroethane	%	90		1383007
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				


 Maxxam Job #: A7B2520
 Report Date: 2007/10/18

 Barenco Inc
 Task Order#: 11050571
 Site#:
 Site Location: 10 MISSISSAUGA RD, MISSISSAUGA (SOUTH PROPERTY)
 Project #: 02150

Test Summary

Maxxam ID	V22684	Collected	2007/10/11
Sample ID	BH90-216	Shipped	2007/10/12
Matrix	Water	Received	2007/10/12

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1383007	2007/10/16	2007/10/17	MSB

Maxxam ID	V22684 Dup	Collected	2007/10/11
Sample ID	BH90-216	Shipped	2007/10/12
Matrix	Water	Received	2007/10/12

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1383007	2007/10/16	2007/10/17	MSB

Maxxam ID	V22685	Collected	2007/10/11
Sample ID	BH90-205	Shipped	2007/10/12
Matrix	Water	Received	2007/10/12

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1383007	2007/10/16	2007/10/17	MSB

Maxxam ID	V22686	Collected	2007/10/11
Sample ID	BH92-311	Shipped	2007/10/12
Matrix	Water	Received	2007/10/12

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1383007	2007/10/16	2007/10/17	MSB

Maxxam ID	V22687	Collected	2007/10/11
Sample ID	BH90-208	Shipped	2007/10/12
Matrix	Water	Received	2007/10/12

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1383007	2007/10/16	2007/10/17	MSB

Maxxam ID	V22688	Collected	2007/10/11
Sample ID	BH90-209	Shipped	2007/10/12
Matrix	Water	Received	2007/10/12

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1383007	2007/10/16	2007/10/17	MSB


 Maxxam Job #: A7B2520
 Report Date: 2007/10/18

 Barenco Inc
 Task Order#: 11050571
 Site#:
 Site Location: 10 MISSISSAUGA RD, MISSISSAUGA (SOUTH PROPERTY)
 Project #: 02150

Test Summary

Maxxam ID	V22689	Collected	2007/10/11
Sample ID	BH92-307	Shipped	2007/10/12
Matrix	Water	Received	2007/10/12

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1383007	2007/10/16	2007/10/17	MSB

Maxxam ID	V22690	Collected	2007/10/11
Sample ID	BH90-212	Shipped	2007/10/12
Matrix	Water	Received	2007/10/12

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1383007	2007/10/16	2007/10/17	MSB

Maxxam ID	V22691	Collected	2007/10/11
Sample ID	BH90-210	Shipped	2007/10/12
Matrix	Water	Received	2007/10/12

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1383007	2007/10/16	2007/10/17	MSB

Maxxam ID	V22692	Collected	2007/10/11
Sample ID	DUP3	Shipped	2007/10/12
Matrix	Water	Received	2007/10/12

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1383007	2007/10/16	2007/10/17	MSB

Maxxam ID	V22693	Collected	2007/10/11
Sample ID	DUP4	Shipped	2007/10/12
Matrix	Water	Received	2007/10/12

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1383007	2007/10/16	2007/10/17	MSB

Maxxam ID	V22694	Collected	2007/10/11
Sample ID	A	Shipped	2007/10/12
Matrix	Water	Received	2007/10/12

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1383007	2007/10/16	2007/10/17	MSB



Maxxam Job #: A7B2520
Report Date: 2007/10/18

Barenco Inc
Task Order#: 11050571
Site#:
Site Location: 10 MISSISSAUGA RD, MISSISSAUGA (SOUTH PROPERTY)
Project #: 02150

Package 1	2.0°C
-----------	-------

Each temperature is the average of up to three cooler temperatures taken at receipt

GENERAL COMMENTS

Sample V22686-01: F1BTEX-W:
Sample was diluted due to high concentration of target compounds. The DL's were adjusted accordingly.

Sample V22687-01: F1BTEX-W:
Sample was diluted due to high concentration of target compounds. The DL's were adjusted accordingly.

Sample V22688-01: F1BTEX-W:
Sample was diluted due to high concentration of target compounds. The DL's were adjusted accordingly.

Sample V22692-01: F1BTEX-W:
Sample was diluted due to high concentration of target compounds. The DL's were adjusted accordingly.

Sample V22693-01: F1BTEX-W:
Sample was diluted due to high concentration of target compounds. The DL's were adjusted accordingly.

Results relate only to the items tested.



Barenco Inc
 Task Order#: 11050571
 Site#:
 Site Location: 10 MISSISSAUGA RD, MISSISSAUGA (SOUTH PROPERTY)
 Project #: 02150

Quality Assurance Report

Maxxam Job Number: A7B2520

QA/QC Batch			Date Analyzed				
Num Init	QC Type	Parameter	yyyy/mm/dd	Value	Recovery	Units	QC Limits
1383007 MSB	Method Blank	1,4-Difluorobenzene	2007/10/17		107	%	70 - 130
		4-Bromofluorobenzene	2007/10/17		96	%	70 - 130
		D10-Ethylbenzene	2007/10/17		83	%	70 - 130
		D4-1,2-Dichloroethane	2007/10/17		91	%	70 - 130
		Benzene	2007/10/17	<0.2		ug/L	
		Toluene	2007/10/17	<0.2		ug/L	
		Ethylbenzene	2007/10/17	<0.2		ug/L	
		o-Xylene	2007/10/17	<0.2		ug/L	
		p+m-Xylene	2007/10/17	<0.4		ug/L	
		Total Xylenes	2007/10/17	<0.4		ug/L	
	RPD [V22684-01]	Benzene	2007/10/17	NC		%	40
		Toluene	2007/10/17	NC		%	40
		Ethylbenzene	2007/10/17	NC		%	40
		o-Xylene	2007/10/17	NC		%	40
		p+m-Xylene	2007/10/17	NC		%	40
		Total Xylenes	2007/10/17	NC		%	40
	MATRIX SPIKE [V22684-01]	1,4-Difluorobenzene	2007/10/17		107	%	70 - 130
		4-Bromofluorobenzene	2007/10/17		97	%	70 - 130
		D10-Ethylbenzene	2007/10/17		86	%	70 - 130
		D4-1,2-Dichloroethane	2007/10/17		89	%	70 - 130
		Benzene	2007/10/17		72	%	70 - 130
		Toluene	2007/10/17		79	%	70 - 130
		Ethylbenzene	2007/10/17		77	%	70 - 130
		o-Xylene	2007/10/17		81	%	70 - 130
		p+m-Xylene	2007/10/17		84	%	70 - 130
	LCS	1,4-Difluorobenzene	2007/10/17		104	%	70 - 130
		4-Bromofluorobenzene	2007/10/17		97	%	70 - 130
		D10-Ethylbenzene	2007/10/17		104	%	70 - 130
		D4-1,2-Dichloroethane	2007/10/17		97	%	70 - 130
		Benzene	2007/10/17		88	%	70 - 130
		Toluene	2007/10/17		95	%	70 - 130
		Ethylbenzene	2007/10/17		92	%	70 - 130
		o-Xylene	2007/10/17		96	%	70 - 130
		p+m-Xylene	2007/10/17		99	%	70 - 130

NC = Non-calculable
 RPD = Relative Percent Difference

Validation Signature Page**Maxxam Job #: A7B2520**

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



MEDHAT RISKALLAH, Manager, Hydrocarbon Department

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CAEAL have approved this reporting process and electronic report format.

Maxxam

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Emergency (416) 892-8957

10L/MAXXAM CHAIN-OF-CUSTODY RECORD

Page 2 of 2

C of C # 22171

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DATA QUALITY REVIEW CHECKLIST - IMPERIAL OIL PROJECTS

Consultant: <u>Barenco Inc.</u>		Sampling Date: <u>October 11, 2007</u>	
Location: <u>10 Mississauga Rd., Mississauga, ON</u>		Laboratory: <u>Maxxam Analytics Inc.</u>	
Consultant Project Number: <u>02150</u>		Sample Submission Number: <u>A7B2520</u>	

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery	X			-all lab QC samples are within acceptance criteria
Extraction Surrogate Recovery	X			
Method Blank Concentration	X			
Matrix Duplicate RPD	X			
Matrix Spike Recovery	X			
Lab Control Sample Recovery	X			

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			X	- all field QC samples are within alert limits
Trip Blank Concentration			X	
Field Duplicate RPD	X			

Has CoA been signed off (Yes/No)? Yes

Has lab warranted all tests were in statistical control in CoA (Yes/No)? Yes

Has lab warranted all tests were analyzed following SOP's in CoA (Yes/No)? Yes

Were all samples analyzed within hold times (Yes/No)? Yes

All volatiles samples methanol extracted (if required) within 48 hours (Yes/No)? Not Required

Is Chain of Custody completed and signed (Yes/No)? Yes

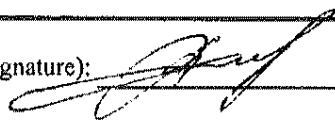
Were sample temperatures acceptable when they reached lab (Yes/No)? Yes

Was a Data Quality Waiver (DQW) issued (Yes/No)? No

Date Issued: NA Date of Response: NA

Is data considered to be reliable (Yes/No)? Yes

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): <u>Viktor Kopetskyy</u>	Data Reviewed by (Signature): 
Date: <u>October 30, 2007</u>	

DATA QUALITY REVIEW CHECKLIST - IMPERIAL OIL PROJECTS

Consultant: <u>Barenco Inc.</u>		Sampling Date: <u>October 11, 2007</u>	
Location: <u>10 Mississauga Rd., Mississauga, ON</u>		Laboratory: <u>Maxxam Analytics Inc.</u>	
Consultant Project Number: <u>02150</u>		Sample Submission Number: <u>A7B2520</u>	

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery	X			-all lab QC samples are within acceptance criteria
Extraction Surrogate Recovery	X			
Method Blank Concentration	X			
Matrix Duplicate RPD	X			
Matrix Spike Recovery	X			
Lab Control Sample Recovery	X			

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			X	- all field QC samples are within alert limits
Trip Blank Concentration			X	
Field Duplicate RPD	X			

Has CoA been signed off (Yes/No)?: Yes

Has lab warranted all tests were in statistical control in CoA (Yes/No)?: Yes

Has lab warranted all tests were analyzed following SOP's in CoA (Yes/No)?: Yes

Were all samples analyzed within hold times (Yes/No)?: Yes

All volatiles samples methanol extracted (if required) within 48 hours (Yes/No)?: Not Required

Is Chain of Custody completed and signed (Yes/No)?: Yes

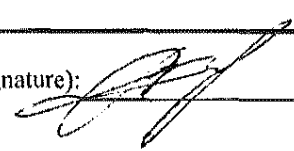
Were sample temperatures acceptable when they reached lab (Yes/No)?: Yes

Was a Data Quality Waiver (DQW) issued (Yes/No)?: No

Date Issued: NA Date of Response: NA

Is data considered to be reliable (Yes/No)?: Yes

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): <u>Viktor Kopetskyy</u>	Data Reviewed by (Signature): 
Date: <u>October 30, 2007</u>	



Task Order#: 11050571

Site#:

Site Location: 10 MISSISSAUGA RD, MISSISSAUGA (SOUTH PROPERTY)

Project #: 02150

Your C.O.C. #: 21179

Attention: Viktor Kopetsky

Barenco Inc

2561 Stouffville Rd

PO Box 295

Gormley, ON

L0H 1G0

Report Date: 2007/10/19

CERTIFICATE OF ANALYSIS**MAXXAM JOB #: A7B2534****Received: 2007/10/12, 16:32**

Sample Matrix: Water

Samples Received: 3

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Primary reference
Petroleum Hydro. CCME F1 & BTEX in Water	3	N/A	2007/10/15	CAM SOP-00315	CCME CWS

Remarks:

Maxxam Analytics has performed all analytical testing herein in accordance with ISO 17025 and the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act. All methodologies comply with this document and are validated for use in the laboratory. The methods and techniques employed in this analysis conform to the performance criteria (detection limits, accuracy and precision) as outlined in the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act.

The CWS PHC methods employed by Maxxam conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following the 'Alberta Environment Draft Addenda to the CWS-PHC, Appendix 6, Validation of Alternate Methods'. Documentation is available upon request. Maxxam has made the following improvements to the CWS-PHC reference benchmark method: (i) Headspace for F1; and, (ii) Mechanical extraction for F2-F4. Note: F4G cannot be added to the C6 to C50 hydrocarbons.

Maxxam Analytics is accredited by SCC (Lab ID 197) for all specific parameters as required by GUCSO and O'Reg 153/04. Maxxam Analytics is limited in liability to the actual cost of analysis unless otherwise agreed in writing. There is no other warranty expressed or implied. Samples will be retained at Maxxam Analytics for three weeks from receipt of data or as per contract.

All data is in statistical control and has met all QC and method performance criteria unless otherwise flagged. All samples were analysed within hold time unless otherwise flagged. All BTEX samples were methanol extracted within 24 hours unless otherwise flagged.

Task Order#: 11050571

Site#:

Site Location: 10 MISSISSAUGA RD, MISSISSAUGA (SOUTH PROPERTY)

Project #: 02150

Your C.O.C. #: 21179

Attention: Viktor Kopetsky

Barenco Inc

2561 Stouffville Rd

PO Box 295

Gormley, ON

L0H 1G0

Report Date: 2007/10/19

CERTIFICATE OF ANALYSIS

-2-

MAXXAM JOB #: A7B2534**Received: 2007/10/12, 16:32**

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key



Malgosia Danczger

19 Oct 2007 11:48:08 -04:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

MALGOSIA DANCZGER, Project Manager

Email: Malgosia.Danczger@maxxamanalytics.com

Phone# (905) 817-5700 Ext:5770

=====

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CAEAL have approved this reporting process and electronic report format.

For Service Group specific validation please refer to the Validation Signature Page

Total cover pages: 2

Page 2 of 8


 Maxxam Job #: A7B2534
 Report Date: 2007/10/19

 Barenco Inc
 Task Order#: 11050571
 Site#:
 Site Location: 10 MISSISSAUGA RD, MISSISSAUGA (SOUTH PROPERTY)
 Project #: 02150

BTEX IN WATER (WATER)

Maxxam ID		V22771	V22772	V22773		
Sampling Date		2007/10/11 13:35	2007/09/21	2007/10/01		
COC Number		21179	21179	21179		
	Units	F. BLANK	T. BLANK	T. SPIKE	RDL	QC Batch
Benzene	ug/L	<0.2	<0.2	79	0.2	1382892
Toluene	ug/L	<0.2	<0.2	81	0.2	1382892
Ethylbenzene	ug/L	<0.2	<0.2	70	0.2	1382892
o-Xylene	ug/L	<0.2	<0.2	85	0.2	1382892
p+m-Xylene	ug/L	<0.4	<0.4	85	0.4	1382892
Total Xylenes	ug/L	<0.4	<0.4		0.4	1382892
Instrument Surrogate Recovery (%)						
1,4-Difluorobenzene	%	103	103	95		1382892
4-Bromofluorobenzene	%	103	102	98		1382892
D10-Ethylbenzene	%	93	94	87		1382892
D4-1,2-Dichloroethane	%	94	94	85		1382892
RDL = Reportable Detection Limit QC Batch = Quality Control Batch						


 Maxxam Job #: A7B2534
 Report Date: 2007/10/19

 Barenco Inc
 Task Order#: 11050571
 Site#:
 Site Location: 10 MISSISSAUGA RD, MISSISSAUGA (SOUTH PROPERTY)
 Project #: 02150

Test Summary

Maxxam ID	V22771	Collected	2007/10/11
Sample ID	F. BLANK	Shipped	2007/10/12
Matrix	Water	Received	2007/10/12

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1382892	2007/10/15	2007/10/15	DTI

Maxxam ID	V22772	Collected	2007/09/21
Sample ID	T. BLANK	Shipped	2007/10/12
Matrix	Water	Received	2007/10/12

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1382892	2007/10/15	2007/10/15	DTI

Maxxam ID	V22773	Collected	2007/10/01
Sample ID	T. SPIKE	Shipped	2007/10/12
Matrix	Water	Received	2007/10/12

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1382892	2007/10/15	2007/10/15	DTI



Maxxam Job #: A7B2534
Report Date: 2007/10/19

Barenco Inc
Task Order#: 11050571
Site#:
Site Location: 10 MISSISSAUGA RD, MISSISSAUGA (SOUTH PROPERTY)
Project #: 02150

Package 1	2.0°C
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Each temperature is the average of up to three cooler temperatures taken at receipt

GENERAL COMMENTS

Sample V22773-01: F1/BTEX: Trip spike results are expressed as percentage of the spiked amounts.

Results relate only to the items tested.

Barenco Inc

Task Order#: 11050571

Site#:

Site Location: 10 MISSISSAUGA RD, MISSISSAUGA (SOUTH PROPERTY)

Project #: 02150

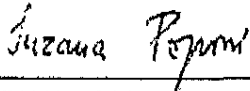
Quality Assurance Report

Maxxam Job Number: A7B2534

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1382892 DTI	Method Blank	1,4-Difluorobenzene	2007/10/15		103	%	70 - 130
		4-Bromofluorobenzene	2007/10/15		104	%	70 - 130
		D10-Ethylbenzene	2007/10/15		94	%	70 - 130
		D4-1,2-Dichloroethane	2007/10/15		95	%	70 - 130
		Benzene	2007/10/15	<0.2		ug/L	
	LCS	Toluene	2007/10/15	<0.2		ug/L	
		Ethylbenzene	2007/10/15	<0.2		ug/L	
		o-Xylene	2007/10/15	<0.2		ug/L	
		p+m-Xylene	2007/10/15	<0.4		ug/L	
		Total Xylenes	2007/10/15	<0.4		ug/L	
		1,4-Difluorobenzene	2007/10/15		104	%	70 - 130
		4-Bromofluorobenzene	2007/10/15		105	%	70 - 130
		D10-Ethylbenzene	2007/10/15		96	%	70 - 130
		D4-1,2-Dichloroethane	2007/10/15		95	%	70 - 130
		Benzene	2007/10/15		82	%	70 - 130
		Toluene	2007/10/15		86	%	70 - 130
		Ethylbenzene	2007/10/15		83	%	70 - 130
		o-Xylene	2007/10/15		88	%	70 - 130
		p+m-Xylene	2007/10/15		87	%	70 - 130

Validation Signature Page**Maxxam Job #: A7B2534**

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



SUZANA POPOVIC, Supervisor, Hydrocarbons

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CAEAL have approved this reporting process and electronic report format.

Maxxam

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Mississauga, ON L5N 2L8
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1-800-563-5266

Emergency: (416) 892-8957

IOL/MAXXAM CHAIN-OF-CUSTODY RECORD

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CofC# 21179

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DATA QUALITY REVIEW CHECKLIST - IMPERIAL OIL PROJECTS

Consultant: <u>Barenco Inc.</u>		Sampling Date: <u>October 11, 2007</u>	
Location: <u>10 Mississauga Rd., Mississauga, ON</u>		Laboratory: <u>Maxxam Analytics Inc.</u>	
Consultant Project Number: <u>02150</u>		Sample Submission Number: <u>A7B2534</u>	

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery	X			-all lab QC samples are within acceptance criteria
Extraction Surrogate Recovery	X			
Method Blank Concentration	X			
Matrix Duplicate RPD			X	
Matrix Spike Recovery			X	
Lab Control Sample Recovery	X			

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration	X			- all field QC samples are within alert limits
Trip Blank Concentration	X			
Field Duplicate RPD			X	

Has CoA been signed off (Yes/No)?:

Has lab warranted all tests were in statistical control in CoA (Yes/No)?:

Has lab warranted all tests were analyzed following SOP's in CoA (Yes/No)?:

Were all samples analyzed within hold times (Yes/No)?:

All volatiles samples methanol extracted (if required) within 48 hours (Yes/No)?:

Is Chain of Custody completed and signed (Yes/No)?:

Were sample temperatures acceptable when they reached lab (Yes/No)?:

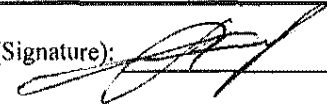
Was a Data Quality Waiver (DQW) issued (Yes/No)?:

Date Issued: NA

Date of Response: NA

Is data considered to be reliable (Yes/No)?:

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): <u>Viktor Kopetsky</u>	Data Reviewed by (Signature): 
Date: <u>October 30, 2007</u>	

Task Order#: 11050571

Site#:

Site Location: 10 MISSISSAUGA RD, MISSISSAUGA (SOUTH PROPERTY)

Project #: 02150

Your C.O.C. #: 21865

Attention: Viktor Kopetsky

Barenco Inc

2561 Stouffville Rd

PO Box 295

Gormley, ON

L0H 1G0

Report Date: 2007/10/19**CERTIFICATE OF ANALYSIS****MAXXAM JOB #: A7B2985****Received: 2007/10/15, 14:05**

Sample Matrix: Water

Samples Received: 9

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Primary reference
Petroleum Hydro. CCME F1 & BTEX in Water	9	N/A	2007/10/17	CAM SOP-00315	CCME CWS

Remarks:

Maxxam Analytics has performed all analytical testing herein in accordance with ISO 17025 and the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act. All methodologies comply with this document and are validated for use in the laboratory. The methods and techniques employed in this analysis conform to the performance criteria (detection limits, accuracy and precision) as outlined in the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act.

The CWS PHC methods employed by Maxxam conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following the 'Alberta Environment Draft Addenda to the CWS-PHC, Appendix 6, Validation of Alternate Methods'. Documentation is available upon request. Maxxam has made the following improvements to the CWS-PHC reference benchmark method: (i) Headspace for F1; and, (ii) Mechanical extraction for F2-F4. Note: F4G cannot be added to the C6 to C50 hydrocarbons.

Maxxam Analytics is accredited by SCC (Lab ID 197) for all specific parameters as required by GUCSO and O'Reg 153/04. Maxxam Analytics is limited in liability to the actual cost of analysis unless otherwise agreed in writing. There is no other warranty expressed or implied. Samples will be retained at Maxxam Analytics for three weeks from receipt of data or as per contract.

All data is in statistical control and has met all QC and method performance criteria unless otherwise flagged. All samples were analysed within hold time unless otherwise flagged. All BTEX samples were methanol extracted within 24 hours unless otherwise flagged.

Task Order#: 11050571

Site#:

Site Location: 10 MISSISSAUGA RD, MISSISSAUGA (SOUTH PROPERTY)

Project #: 02150

Your C.O.C. #: 21865

Attention: Viktor Kopetskyv

Barenco Inc

2561 Stouffville Rd

PO Box 295

Gormley, ON

LOH 1G0

Report Date: 2007/10/19**CERTIFICATE OF ANALYSIS**

-2-

MAXXAM JOB #: A7B2985**Received: 2007/10/15, 14:05**

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key



Malgosia Dancziger

19 Oct 2007 16:54:38 -04:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

MALGOSIA DANCZIGER, Project Manager

Email: Malgosia.Dancziger@maxxamanalytics.com

Phone# (905) 817-5700 Ext:5770

=====
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CAEAL have approved this reporting process and electronic report format.

For Service Group specific validation please refer to the Validation Signature Page

Total cover pages: 2

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 Maxxam Job #: A7B2985
 Report Date: 2007/10/19

 Barenco Inc
 Task Order#: 11050571
 Site#:
 Site Location: 10 MISSISSAUGA RD, MISSISSAUGA (SOUTH PROPERTY)
 Project #: 02150

BTEX IN WATER (WATER)

Maxxam ID		V24874		V24875		
Sampling Date		2007/10/11		2007/10/12 13:00		
COC Number		21865		21865		
	Units	DUP5	RDL	BH90-204	RDL	QC Batch

Benzene	ug/L	500	2	0.5	0.2	1384363
Toluene	ug/L	<2	2	1.2	0.2	1384363
Ethylbenzene	ug/L	<2	2	<0.2	0.2	1384363
o-Xylene	ug/L	<2	2	2.0	0.2	1384363
p+m-Xylene	ug/L	<4	4	2.3	0.4	1384363
Total Xylenes	ug/L	<4	4	4.3	0.4	1384363
Instrument Surrogate Recovery (%)						
1,4-Difluorobenzene	%	104		99		1384363
4-Bromofluorobenzene	%	101		106		1384363
D10-Ethylbenzene	%	103		107		1384363
D4-1,2-Dichloroethane	%	97		98		1384363

 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch



Maxxam Job #: A7B2985
Report Date: 2007/10/19

Barenco Inc
Task Order#: 11050571
Site#:
Site Location: 10 MISSISSAUGA RD, MISSISSAUGA (SOUTH PROPERTY)
Project #: 02150

BTEX IN WATER (WATER)

Maxxam ID		V24876		V24877	V24878		
Sampling Date		2007/10/12 13:50		2007/10/12 12:00	2007/10/12 12:45		
COC Number		21865		21865	21865		
	Units	C	RDL	BH92-305	D1	RDL	QC Batch

Benzene	ug/L	32000	100	4.2	<0.2	0.2	1384363
Toluene	ug/L	<100	100	<0.2	0.7	0.2	1384363
Ethylbenzene	ug/L	<100	100	<0.2	<0.2	0.2	1384363
o-Xylene	ug/L	<100	100	<0.2	<0.2	0.2	1384363
p+m-Xylene	ug/L	<200	200	<0.4	<0.4	0.4	1384363
Total Xylenes	ug/L	<200	200	<0.4	<0.4	0.4	1384363
Instrument Surrogate Recovery (%)							
1,4-Difluorobenzene	%	109		105	99		1384363
4-Bromofluorobenzene	%	113		104	91		1384363
D10-Ethylbenzene	%	118		106	100		1384363
D4-1,2-Dichloroethane	%	104		99	91		1384363

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch


 Maxxam Job #: A7B2985
 Report Date: 2007/10/19

 Barenco Inc
 Task Order#: 11050571
 Site#:
 Site Location: 10 MISSISSAUGA RD, MISSISSAUGA (SOUTH PROPERTY)
 Project #: 02150

BTEX IN WATER (WATER)

Maxxam ID		V24878	V24879	V24880		
Sampling Date		2007/10/12 12:45	2007/10/12 13:10	2007/10/12 13:30		
COC Number		21865	21865	21865		
	Units	D1 Lab-Dup	BH92-316	BH92-315	RDL	QC Batch

Benzene	ug/L	<0.2	<0.2	<0.2	0.2	1384363
Toluene	ug/L	0.7	<0.2	<0.2	0.2	1384363
Ethylbenzene	ug/L	<0.2	<0.2	<0.2	0.2	1384363
o-Xylene	ug/L	<0.2	<0.2	<0.2	0.2	1384363
p+m-Xylene	ug/L	<0.4	<0.4	<0.4	0.4	1384363
Total Xylenes	ug/L	<0.4	<0.4	<0.4	0.4	1384363
Instrument Surrogate Recovery (%)						
1,4-Difluorobenzene	%	102	104	103		1384363
4-Bromofluorobenzene	%	96	101	98		1384363
D10-Ethylbenzene	%	101	107	106		1384363
D4-1,2-Dichloroethane	%	94	96	98		1384363

 RDL = Reportable Detection Limit
 Lab-Dup = Laboratory Initiated Duplicate
 QC Batch = Quality Control Batch


 Maxxam Job #: A7B2985
 Report Date: 2007/10/19

 Barenco Inc
 Task Order#: 11050571
 Site#:
 Site Location: 10 MISSISSAUGA RD, MISSISSAUGA (SOUTH PROPERTY)
 Project #: 02150

BTEX IN WATER (WATER)

Maxxam ID		V24881		V24882		
Sampling Date		2007/10/12		2007/10/11		
		12:05		14:10		
COC Number		21865		21865		
	Units	BH92-310	RDL	BH92-306	RDL	QC Batch
Benzene	ug/L	670	2	<0.2	0.2	1384363
Toluene	ug/L	<2	2	<0.2	0.2	1384363
Ethylbenzene	ug/L	<2	2	<0.2	0.2	1384363
o-Xylene	ug/L	<2	2	<0.2	0.2	1384363
p+m-Xylene	ug/L	<4	4	<0.4	0.4	1384363
Total Xylenes	ug/L	<4	4	<0.4	0.4	1384363
Instrument Surrogate Recovery (%)						
1,4-Difluorobenzene	%	105		97		1384363
4-Bromofluorobenzene	%	99		95		1384363
D10-Ethylbenzene	%	102		96		1384363
D4-1,2-Dichloroethane	%	97		103		1384363
RDL = Reportable Detection Limit QC Batch = Quality Control Batch						


 Maxxam Job #: A7B2985
 Report Date: 2007/10/19

 Barenco Inc
 Task Order#: 11050571
 Site#:
 Site Location: 10 MISSISSAUGA RD, MISSISSAUGA (SOUTH PROPERTY)
 Project #: 02150

Test Summary

Maxxam ID	V24874	Collected	2007/10/11
Sample ID	DUP5	Shipped	2007/10/12
Matrix	Water	Received	2007/10/15

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1384363	2007/10/17	2007/10/17	GRU

Maxxam ID	V24875	Collected	2007/10/12
Sample ID	BH90-204	Shipped	2007/10/12
Matrix	Water	Received	2007/10/15

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1384363	2007/10/17	2007/10/17	GRU

Maxxam ID	V24876	Collected	2007/10/12
Sample ID	C	Shipped	2007/10/12
Matrix	Water	Received	2007/10/15

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1384363	2007/10/17	2007/10/17	GRU

Maxxam ID	V24877	Collected	2007/10/12
Sample ID	BH92-305	Shipped	2007/10/12
Matrix	Water	Received	2007/10/15

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1384363	2007/10/17	2007/10/17	GRU

Maxxam ID	V24878	Collected	2007/10/12
Sample ID	D1	Shipped	2007/10/12
Matrix	Water	Received	2007/10/15

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1384363	2007/10/17	2007/10/17	GRU

Maxxam ID	V24878 Dup	Collected	2007/10/12
Sample ID	D1	Shipped	2007/10/12
Matrix	Water	Received	2007/10/15

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1384363	2007/10/17	2007/10/17	GRU


 Maxxam Job #: A7B2985
 Report Date: 2007/10/19

 Barenco Inc
 Task Order#: 11050571
 Site#:
 Site Location: 10 MISSISSAUGA RD, MISSISSAUGA (SOUTH PROPERTY)
 Project #: 02150

Test Summary

Maxxam ID	V24879	Collected	2007/10/12
Sample ID	BH92-316	Shipped	2007/10/12
Matrix	Water	Received	2007/10/15

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX In Wat	HSGC/MSFD	1384363	2007/10/17	2007/10/17	GRU

Maxxam ID	V24880	Collected	2007/10/12
Sample ID	BH92-315	Shipped	2007/10/12
Matrix	Water	Received	2007/10/15

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX In Wat	HSGC/MSFD	1384363	2007/10/17	2007/10/17	GRU

Maxxam ID	V24881	Collected	2007/10/12
Sample ID	BH92-310	Shipped	2007/10/12
Matrix	Water	Received	2007/10/15

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX In Wat	HSGC/MSFD	1384363	2007/10/17	2007/10/17	GRU

Maxxam ID	V24882	Collected	2007/10/11
Sample ID	BH92-306	Shipped	2007/10/12
Matrix	Water	Received	2007/10/15

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX In Wat	HSGC/MSFD	1384363	2007/10/17	2007/10/17	GRU



Maxxam Job #: A7B2985
Report Date: 2007/10/19

Bareco Inc
Task Order#: 11050571
Site#:
Site Location: 10 MISSISSAUGA RD, MISSISSAUGA (SOUTH PROPERTY)
Project #: 02150

Package 1	1.0°C
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Each temperature is the average of up to three cooler temperatures taken at receipt

GENERAL COMMENTS

Sample V24874-01: F1BTEX Analysis: Sample was diluted due to high concentration of target compounds. The DL's were adjusted accordingly.

Sample V24876-01: F1BTEX Analysis: Sample was diluted due to high concentration of target compounds. The DL's were adjusted accordingly.

Sample V24881-01: F1BTEX Analysis: Sample was diluted due to high concentration of target compounds. The DL's were adjusted accordingly.

Results relate only to the items tested.



Barenco Inc

Task Order#: 11050571

Site#:

Site Location: 10 MISSISSAUGA RD, MISSISSAUGA (SOUTH PROPERTY)

Project #: 02150

Quality Assurance Report

Maxxam Job Number: A7B2985

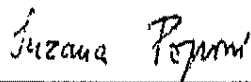
QA/QC Batch			Date Analyzed					
Num Init	QC Type	Parameter	yyyy/mm/dd	Value	Recovery	Units	QC Limits	
1384363 GRU	Method Blank	1,4-Difluorobenzene	2007/10/17		103	%	70 - 130	
		4-Bromofluorobenzene	2007/10/17		97	%	70 - 130	
		D10-Ethylbenzene	2007/10/17		105	%	70 - 130	
		D4-1,2-Dichloroethane	2007/10/17		97	%	70 - 130	
		Benzene	2007/10/17	<0.2		ug/L		
		Toluene	2007/10/17	<0.2		ug/L		
		Ethylbenzene	2007/10/17	<0.2		ug/L		
		o-Xylene	2007/10/17	<0.2		ug/L		
		p+m-Xylene	2007/10/17	<0.4		ug/L		
		Total Xylenes	2007/10/17	<0.4		ug/L		
	RPD [V24878-01]	Benzene	2007/10/17	NC		%		40
		Toluene	2007/10/17	NC		%		40
		Ethylbenzene	2007/10/17	NC		%		40
		o-Xylene	2007/10/17	NC		%		40
		p+m-Xylene	2007/10/17	NC		%		40
		Total Xylenes	2007/10/17	NC		%		40
	MATRIX SPIKE [V24878-01]	1,4-Difluorobenzene	2007/10/17		100	%	70 - 130	
		4-Bromofluorobenzene	2007/10/17		105	%	70 - 130	
		D10-Ethylbenzene	2007/10/17		108	%	70 - 130	
		D4-1,2-Dichloroethane	2007/10/17		96	%	70 - 130	
		Benzene	2007/10/17		79	%	70 - 130	
		Toluene	2007/10/17		78	%	70 - 130	
		Ethylbenzene	2007/10/17		81	%	70 - 130	
		o-Xylene	2007/10/17		86	%	70 - 130	
		p+m-Xylene	2007/10/17		86	%	70 - 130	
	LCS	1,4-Difluorobenzene	2007/10/17		100	%	70 - 130	
		4-Bromofluorobenzene	2007/10/17		102	%	70 - 130	
		D10-Ethylbenzene	2007/10/17		107	%	70 - 130	
		D4-1,2-Dichloroethane	2007/10/17		93	%	70 - 130	
		Benzene	2007/10/17		80	%	70 - 130	
		Toluene	2007/10/17		80	%	70 - 130	
		Ethylbenzene	2007/10/17		85	%	70 - 130	
		o-Xylene	2007/10/17		88	%	70 - 130	
		p+m-Xylene	2007/10/17		87	%	70 - 130	
NC = Non-calculable								
RPD = Relative Percent Difference								

Validation Signature Page**Maxxam Job #: A7B2985**

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



MEDHAT RISKALLAH, Manager, Hydrocarbon Department



SUZANA POPOVIC, Supervisor, Hydrocarbons

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6740 Campobello Road
Mississauga, ON L5N 2L8
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Toll Free: 1-800-563-6266
Emergency: (416) 892-8957

IOL/MAXXAM CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Col C# 21865

COMPANY NAME BRANCO		PHONE 905-887-6661		FAX 905-887-1999	
COMPANY ADDRESS 2361 Stouffville Rd. Guelph, ON L0H 1K0		CLIENT PROJECT ID 02150			
SAMPLE NAME (PRINT) Viktor Kapatehyy		PROJECT MANAGER Viktor Kapatehyy			
MAXXAM LAB		DATE 07/10/11		TIME 16:30	
Y24 874		Y24 875		Y24 876	
Y24 877		Y24 878		Y24 879	
Y24 880		Y24 881		Y24 882	
Y24 883		Y24 884		Y24 885	
Y24 886		Y24 887		Y24 888	
Y24 889		Y24 890		Y24 891	
Y24 892		Y24 893		Y24 894	
Y24 895		Y24 896		Y24 897	
Y24 898		Y24 899		Y24 900	
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Y24 976		Y24 977		Y24 978	
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Y24 1141		Y24 1142		Y24 1143	
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Y24 1159		Y24 1160		Y24 1161	
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Y24 1168		Y24 1169		Y24 1170	
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Y24 1225		Y24 1226		Y24 1227	
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Y24 1264		Y24 1265		Y24 1266	
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Y24 1273		Y24 1274		Y24 1275	
Y24 1276		Y24 1277		Y24 1278	
Y24 1279		Y24 1280		Y24 1281	
Y24 1282		Y24 1283		Y24 1284	
Y24 1285		Y24 1286		Y24 1287	
Y24 1288		Y24 1289		Y24 1290	
Y24 1291		Y24 1292		Y24 1293	
Y24 1294		Y24 1295		Y24 1296	
Y24 1297		Y24 1298		Y24 1299	
Y24 1300		Y24 1301		Y24 1302	
Y24 1303		Y24 1304		Y24 1305	
Y24 1306		Y24 1307		Y24 1308	
Y24 1309		Y24 1310		Y24 1311	
Y24 1312		Y24 1313		Y24 1314	
Y24 1315		Y24 1316		Y24 1317	
Y24 1318		Y24 1319		Y24 1320	
Y24 1321		Y24 1322		Y24 1323	
Y24 1324		Y24 1325		Y24 1326	
Y24 1327		Y24 1328		Y24 1329	
Y24 1330		Y24 1331		Y24 1332	
Y24 1333		Y24 1334		Y24 1335	
Y24 1336		Y24 1337		Y24 1338	
Y24 1339		Y24 1340		Y24 1341	
Y24 1342		Y24 1343		Y24 1344	
Y24 1345		Y24 1346		Y24 1347	
Y24 1348		Y24 1349		Y24 1350	
Y24 1351		Y24 1352		Y24 1353	
Y24 1354		Y24 1355		Y24 1356	
Y24 1357		Y24 1358		Y24 1359	
Y24 1360		Y24 1361		Y24 1362	
Y24 1363		Y24 1364		Y24 1365	
Y24 1366		Y24 1367		Y24 1368	
Y24 1369		Y24 1370		Y24 1371	
Y24 1372		Y24 1373		Y24 1374	
Y24 1375		Y24 1376		Y24 1377	
Y24 1378		Y24 1379		Y24 1380	
Y24 1381		Y24 1382		Y24 1383	
Y24 1384		Y24 1385		Y24 1386	
Y24 1387		Y24 1388		Y24 1389	
Y24 1390		Y24 1391		Y24 1392	
Y24 1393		Y24 1394		Y24 1395	
Y24 1396		Y24 1397		Y24 1398	
Y24 1399		Y24 1400		Y24 1401	
Y24 1402		Y24 1403		Y24 1404	
Y24 1405		Y24 1406		Y24 1407	
Y24 1408		Y24 1409		Y24 1410	
Y24 1411		Y24 1412		Y24 1413	
Y24 1414		Y24 1415		Y24 1416	
Y24 1417		Y24 1418		Y24 1419	
Y24 1420		Y24 1421		Y24 1422	
Y24 1423		Y24 1424		Y24 1425	
Y24 1426		Y24 1427		Y24 1428	
Y24 1429		Y24 1430		Y24 1431	
Y24 1432		Y24 1433		Y24 1434	
Y24 1435		Y24 1436		Y24 1437	
Y24 1438		Y24 1439		Y24 1440	
Y24 1441		Y24 1442		Y24 1443	
Y24 1444		Y24 1445		Y24 1446	
Y24 1447		Y24 1448		Y24 1449	
Y24 1450		Y24 1451		Y24 1452	
Y24 1453		Y24 1454		Y24 1455	
Y24 1456		Y24 1457		Y24 1458	
Y24 1459		Y24 1460		Y24 1461	
Y24 1462		Y24 1463		Y24 1464	
Y24 1465		Y24 1466		Y24 1467	
Y24 1468		Y24 1469		Y24 1470	
Y24 1471		Y24 1472		Y24 1473	
Y24 1474		Y24 1475		Y24 1476	
Y24 1477		Y24 1478		Y24 1479	
Y24 1480		Y24 1481		Y24 1482	
Y24 1483		Y24 1484		Y24	

DATA QUALITY REVIEW CHECKLIST - IMPERIAL OIL PROJECTS

Consultant: <u>Barenco Inc.</u>		Sampling Date: <u>October 11-12, 2007</u>	
Location: <u>10 Mississauga Rd., Mississauga, ON</u>		Laboratory: <u>Maxxam Analytics Inc.</u>	
Consultant Project Number: <u>02150</u>		Sample Submission Number: <u>A7B2985</u>	

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery	X			-all lab QC samples are within acceptance criteria
Extraction Surrogate Recovery	X			
Method Blank Concentration	X			
Matrix Duplicate RPD	X			
Matrix Spike Recovery	X			
Lab Control Sample Recovery	X			

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			X	- all field QC samples are within alert limits
Trip Blank Concentration			X	
Field Duplicate RPD	X			

Has CoA been signed off (Yes/No)?: Yes

Has lab warranted all tests were in statistical control in CoA (Yes/No)?: Yes

Has lab warranted all tests were analyzed following SOP's in CoA (Yes/No)?: Yes

Were all samples analyzed within hold times (Yes/No)?: Yes

All volatiles samples methanol extracted (if required) within 48 hours (Yes/No)?: Not Required

Is Chain of Custody completed and signed (Yes/No)?: Yes

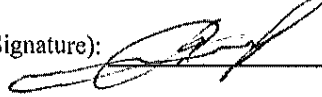
Were sample temperatures acceptable when they reached lab (Yes/No)?: Yes

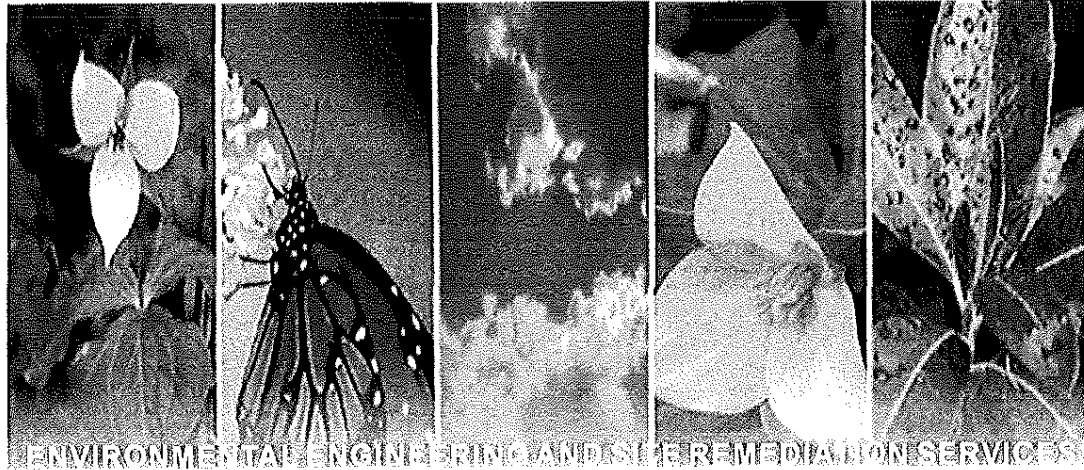
Was a Data Quality Waiver (DQW) issued (Yes/No)?: No

Date Issued: NA Date of Response: NA

Is data considered to be reliable (Yes/No)?: Yes

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): <u>Viktor Kopetskyy</u>	Data Reviewed by (Signature): 
Date: <u>October 30, 2007</u>	



ENVIRONMENTAL ENGINEERING AND SITE REMEDIATION SERVICES

BARENCO INC.

Semi-Annual Ground Water Assessment and Monitoring Update

10 Mississauga Road
Mississauga, Ontario

January 8, 2009

For

Imperial Oil

90 Wynford Drive
Don Mills, Ontario
M3C 1K5

MINISTRY OF
ENVIRONMENT

MAR 17 2009

HALTON PEELE
DISTRICT OFFICE

AR
18 Mar 09

By

BARENCO INC.

P. O. Box 295

2561 Stouffville Road, Suite 202

Gormley, Ontario

L0H 1G0

Telephone (905) 887-6661

02150

"These documents and the information contained therein are confidential, property of Imperial Oil and any disclosure of same is governed by the provisions of each of the applicable provincial and territorial freedom of information legislation, the Privacy Act (Canada) 1980-81-82-83, c.111, Sch. II "1", and the Access to Information Act (Canada) 1980-81-82-83, c.111, Sch. I "1", as such legislation may be amended from time to time."

THIS REPORT CONTAINS PROVISIONS LIMITING LIABILITY, THE SCOPE
OF THE REPORT AND THIRD PARTY RELIANCE

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3.0	SEWER DISCHARGE AGREEMENT	1
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Figure 3	Regression Analysis, Benzene Concentration - BH90-208
Figure 4	Regression Analysis, Benzene Concentration - BH92-311
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1.0 SCOPE OF WORK

Barenco Inc. was retained by Imperial Oil to conduct semi-annual site monitoring of the property at 10 Mississauga Road South, Mississauga (South Property). A locality map is provided as Figure 1.

The ground water monitoring program involves:

- Monthly inspection of the South Property grounds and ground water pump and treat equipment.
- Maintenance of the ground water pump and treat equipment as required.
- Semi-annual (May and October) monitoring and sampling of selected ground water monitors, including reporting of the results.

This report contains results of the semi-annual monitoring program conducted from October 17 to 29, 2008. The sampling results presented in this report (both current and past sampling data) are evaluated for evidence of natural attenuation as part of the long term monitoring program. All work was conducted following the Quality Management, Control and Assurance procedures outlined in Appendix A.

Under contract to Imperial Oil, Barenco performed these ground water sampling activities in accordance with generally accepted professional practices. Subject to this standard of care, Barenco makes no express or implied warranties regarding its services and no third-party beneficiaries beyond those identified above are intended. Limitation of liability, scope of report and third-party reliance are outlined in Section 6.0 of this report.

2.0 MAINTENANCE AND OPERATIONS

As discussed in previous semi-annual ground water assessment reports, the pump-and-treat system was turned off on March 5, 2003, and has not been restarted to date. Currently, the electrical power to the site has been turned off at the main breaker, and the pump-and-treat system has been turned off and is being maintained in standby mode. The ground water pumps were removed from the wells, inspected, cleaned, and serviced as required.

3.0 SEWER DISCHARGE AGREEMENT

As per the terms of the sanitary sewer use agreement, the sewer discharge volume must be reported to the Region of Peel within two weeks of the end of each calendar quarter. As the pump-and-treat system is currently not in use, there has been no discharge to the sanitary sewer for either the second nor third

quarter of 2008. The notification letters to the Region of Peel are attached in Appendix B.

Copies of a letter, issued by the Region of Peel , pertaining to VOC limits in compliance with the Region of Peel By-law 90-90, as well as a current sewer use agreement, that expires on January 1, 2009, are provided in Appendix B.

Expired ?

4.0 SITE CONDITION STANDARDS

Ontario Regulation 153/04 under Part XV.1 of the *Environmental Protection Act* is intended for the assessment and restoration of sites in Ontario. Regulation 153/04 provides generic remediation standards based on property use (agricultural, residential/parkland/institutional or industrial/commercial/community), ground water condition (potable or non-potable), soil texture (coarse or medium and fine textured) and restoration depth (full or stratified restoration).

Regulation 153/04 also provides alternate methods for assessment and remediation based on either restoring soil and ground water to background conditions or the use of a risk assessment. Generic standards for both soil and ground water are outlined in a document entitled *Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act*.

For the purpose of selecting specific site condition standards, it is assumed that the site is not a potentially sensitive site. The conditions required to have this site classified as a potentially sensitive site have not been fully investigated by Barenco. Grain-size analysis for 16 surface and subsurface soil samples collected at the site in October 2008 has been performed by Alston Associates Inc. All analysed soil samples were classified as a medium and fine textured material according to the criteria. Therefore, the standards for fine and medium textured soil were used for comparison with analytical results.

For the purpose of this monitoring report, the Ontario Regulation 153/04 Table 3 Standards for residential/parkland/institutional property use and fine and medium textured soils in a non-potable ground water condition are appropriate for evaluating subsurface environmental conditions at this site.

5.0 GROUND WATER MONITORING AND SAMPLING

Forty-four ground water monitors and seven recovery wells for the semi-annual monitoring program were inspected for general physical condition and ground water depth during the October 2008 sampling event. Forty-two monitors were purged and sampled along with seven recovery wells from October 17 to 29, 2008. The monitor BH92-317 was inaccessible for sampling due to the pipe obstruction, and the monitor BH90-116 was found dry. Based on previous information obtained during the ongoing ground water monitoring program, the contaminant of concern is benzene.

All measurements of ground water depth were taken with a Solinst 122 Interface Meter. No free product was observed during monitoring (or sampling). The ground water depths in metres measured from top of pipe or casing for the monitors and recovery wells are listed in Tables 1 through 51. Where monitor elevation data are available, ground water elevation data are also presented.

Ground water samples were collected with dedicated bailers or Waterra tubing and placed in laboratory-prepared prelabeled glass vials (ensuring zero headspace) and sealed. All ground water samples were collected following the procedures outlined in the Ministry of the Environment's document titled *Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario*.

As part of this monitoring program, a total of fifty-four ground water samples (including one from each monitor/ recovery well and five duplicates) were submitted to the Mississauga facility of Maxxam Analytics Inc., a laboratory accredited by the Standards Council of Canada (SCC), for analysis of benzene, toluene, ethylbenzene and xylenes (BTEX). A field blank, a trip blank and a trip spike were also submitted for analysis of BTEX. All ground water samples were placed into sealed laboratory prepared glass vials, labeled and transported to the laboratory stored in a cooler with ice at less than 10°C.

The locations of the ground water monitors with the current concentrations, previous (or last sampled) concentrations, and the historical high concentrations for dissolved benzene are shown in Figure 2. The current and/or historical laboratory analytical results for BTEX, along with the appropriate MOE Table 3 Standards for each inspected monitor, are listed in Tables 1 through 51. Both fine and medium, and coarse standards are shown for comparison purpose.

Maxxam Analytics laboratory Certificates of Analysis, with the completed chain of custody forms attached, for the current monitoring and sampling event are included in Appendix C.

All of the ground water samples met the MOE Table 3 Standards for fine and medium textured soils for all parameters analysed.

The benzene concentration data in ground water samples collected during the previous May 2008 sampling event were used to create the 1900 µg/L and 12000 µg/L isopleths shown in Figure 2. Data from monitors and recovery wells that have had previous benzene exceedances (BH90-208, BH92-310, BH92-311 and recovery well C) were used to create the benzene concentration trend graphs shown in Figures 3 to 6.

6.0 LIMITATIONS OF LIABILITY, SCOPE OF REPORT, AND THIRD-PARTY RELIANCE

This report has been prepared and the work referred to in this report has been undertaken by Barenco Inc. for Imperial Oil. It is intended for the sole and exclusive use of Imperial Oil, its affiliated companies and partners and their respective insurers, agents, employees and advisors (collectively, "Imperial Oil"). Any use, reliance on or decision made by any person other than Imperial Oil based on this report is the sole responsibility of such other person. Imperial Oil and Barenco Inc. make no representation or warranty to any other person with regard to this report and the work referred to in this report and they accept no duty of care to any other person or any liability or responsibility whatsoever for any losses, expenses, damages, fines, penalties, or other harm that may be suffered or incurred by any other person as a result of the use of, reliance on, any decision made or any action taken based on this report or the work referred to in this report.

The investigation undertaken by Barenco Inc. with respect to this report and any conclusions or recommendations made in this report reflect Barenco Inc.'s judgement based on the site conditions observed at the time of the site inspection on the date(s) set out in this report and on information available at the time of preparation of this report. This report has been prepared for specific application to this site and it is based, in part, upon visual observation of the site, subsurface investigation at discrete locations and depths, and specific analyses of specific chemical parameters and materials during a specific time interval, all as described in this report. Unless otherwise stated, the findings cannot be extended to previous or future site conditions, portions of the site which were unavailable for direct investigation, subsurface locations which were not investigated directly, or chemical parameters, materials or analyses which were not addressed. Substances other than those addressed by the investigation described in this report may exist within the site, substances addressed by the investigation may exist in areas of the site not investigated and

concentrations of substances addressed which are different from those reported may exist in areas other than the locations from which the samples were taken.

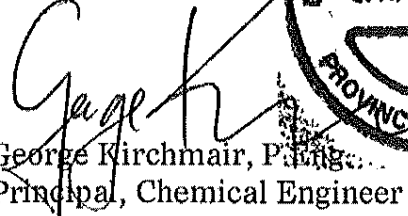
If site conditions or applicable standards change or if any additional information becomes available at a future date, modifications to the findings, conclusions and recommendations in this report may be necessary.

Other than by Imperial Oil, copying or distribution of this report or the use of or reliance on the information contained herein, in whole or in part, is not permitted without the express written permission of Barenco Inc. Nothing in this report is intended to constitute or provide a legal opinion.

Respectfully submitted,
BARENCO INC.



Viktor Kopetsky, P.Eng.
Environmental Engineer





George Kirchmair, P.Eng.
Principal, Chemical Engineer



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FIGURES



SCALE: 1:25000	SOURCE: MAPART PUBLISHING 2005		LOCALITY PLAN		FIGURE 1
BARENCO 			IMPERIAL OIL 10 MISSISSAUGA ROAD SOUTH MISSISSAUGA, ONTARIO		
			BARENCO JOB NUMBER: 02150		DATE: NOVEMBER 2008

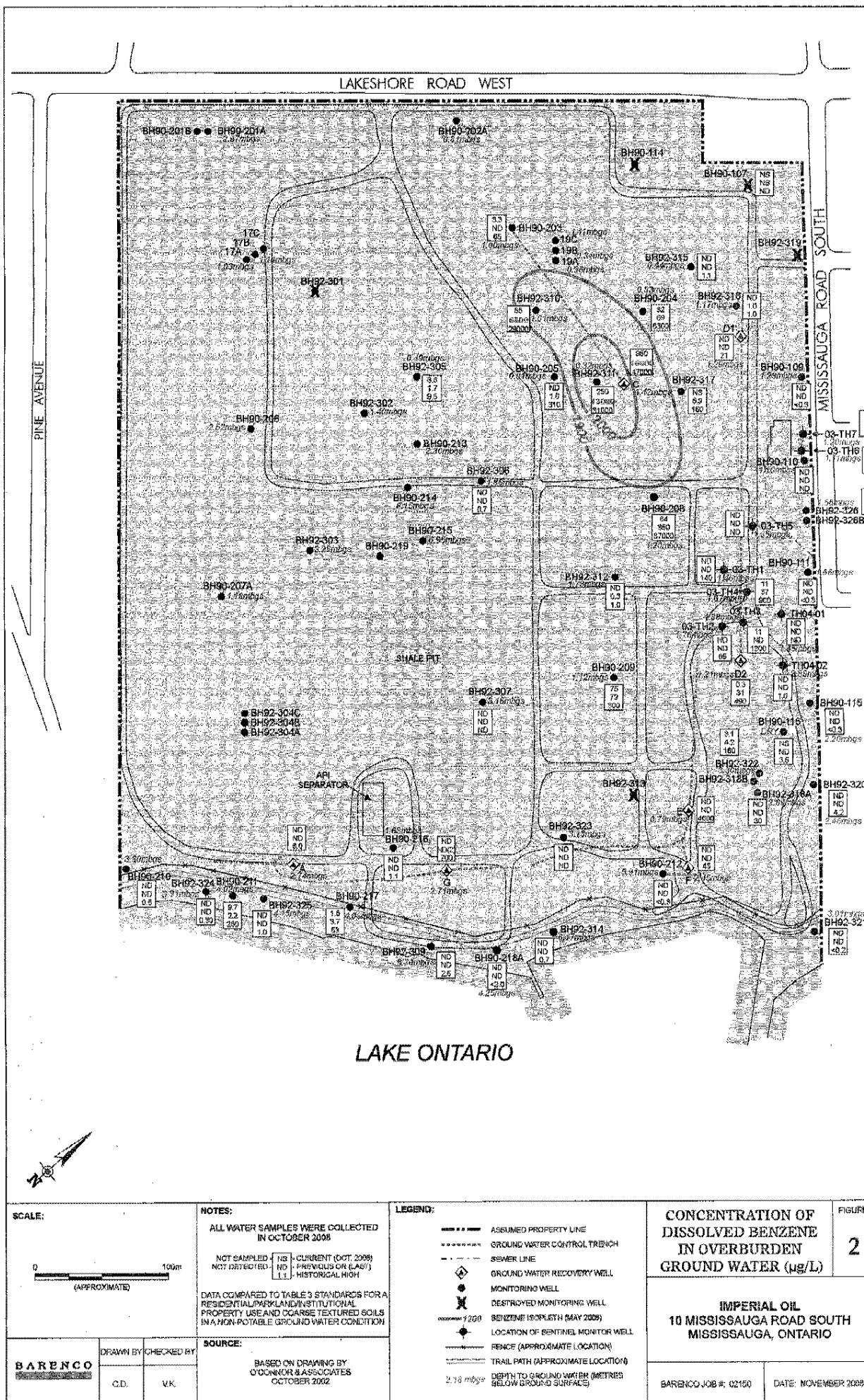


Figure 3: Regression Analysis Benzene Concentration

Sample Location: BH90-208

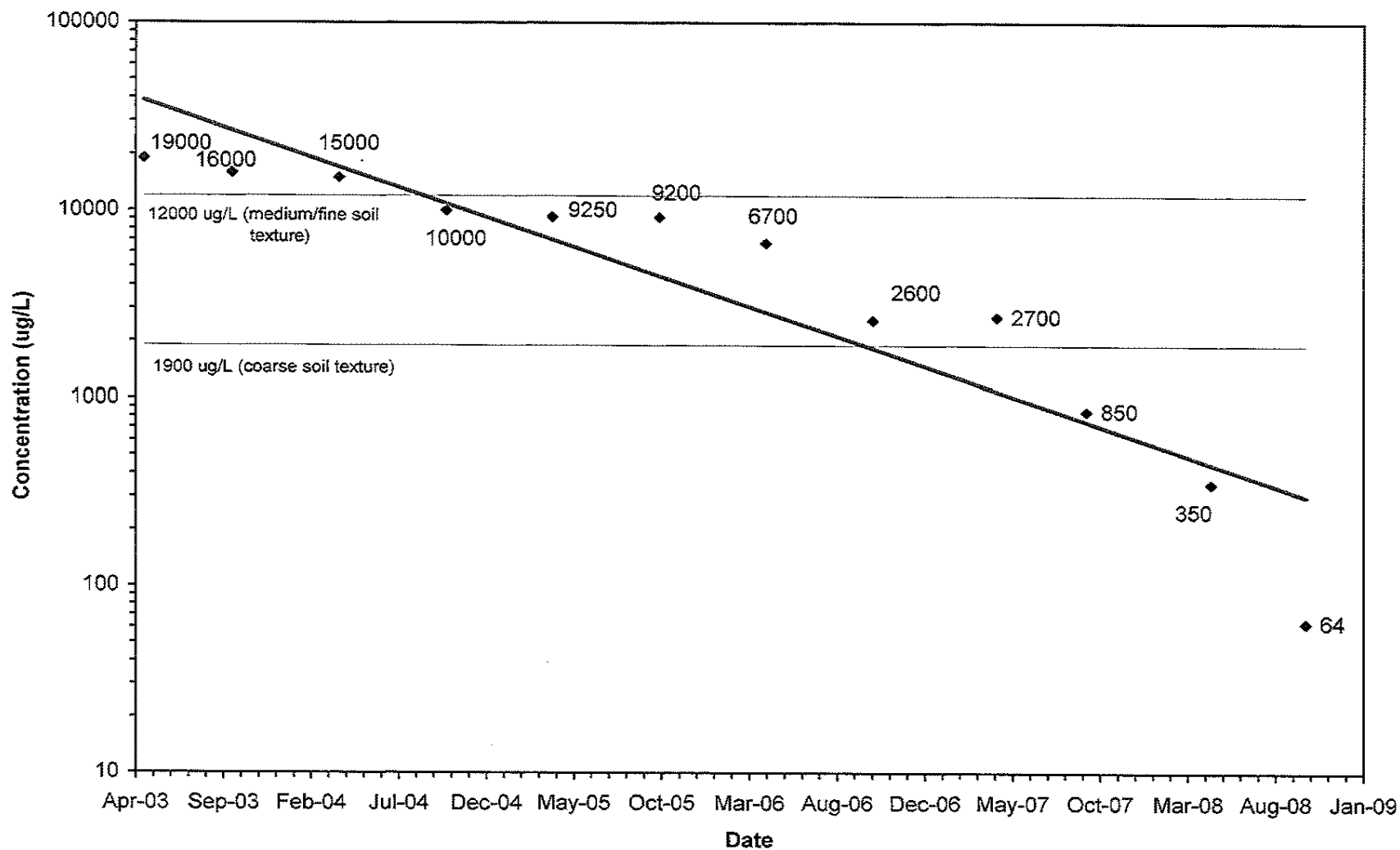


Figure 4: Regression Analysis Benzene Concentration

Sample Location: BH92-311

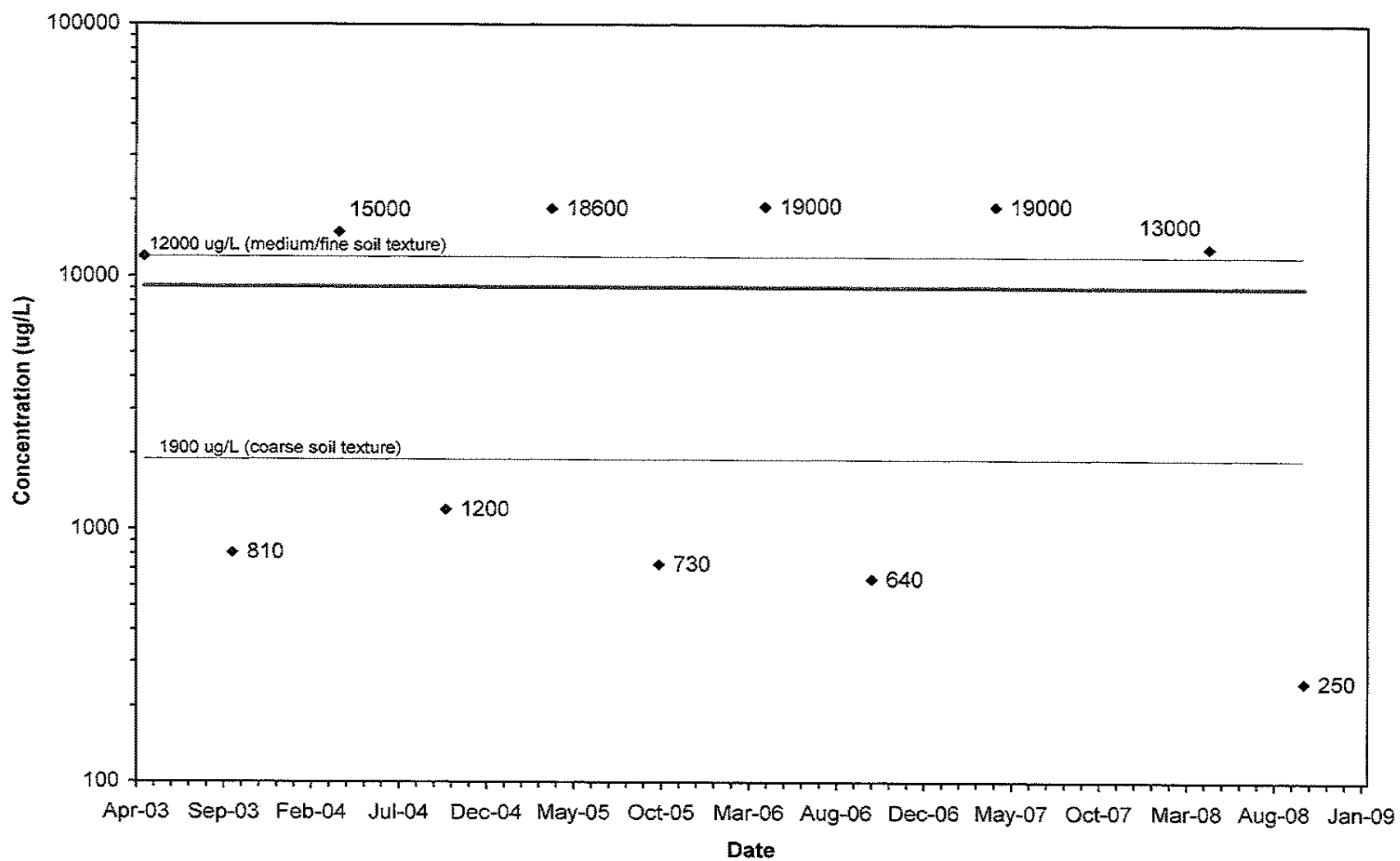


Figure 5: Regression Analysis Benzene Concentration

Sample Location: BH92-310

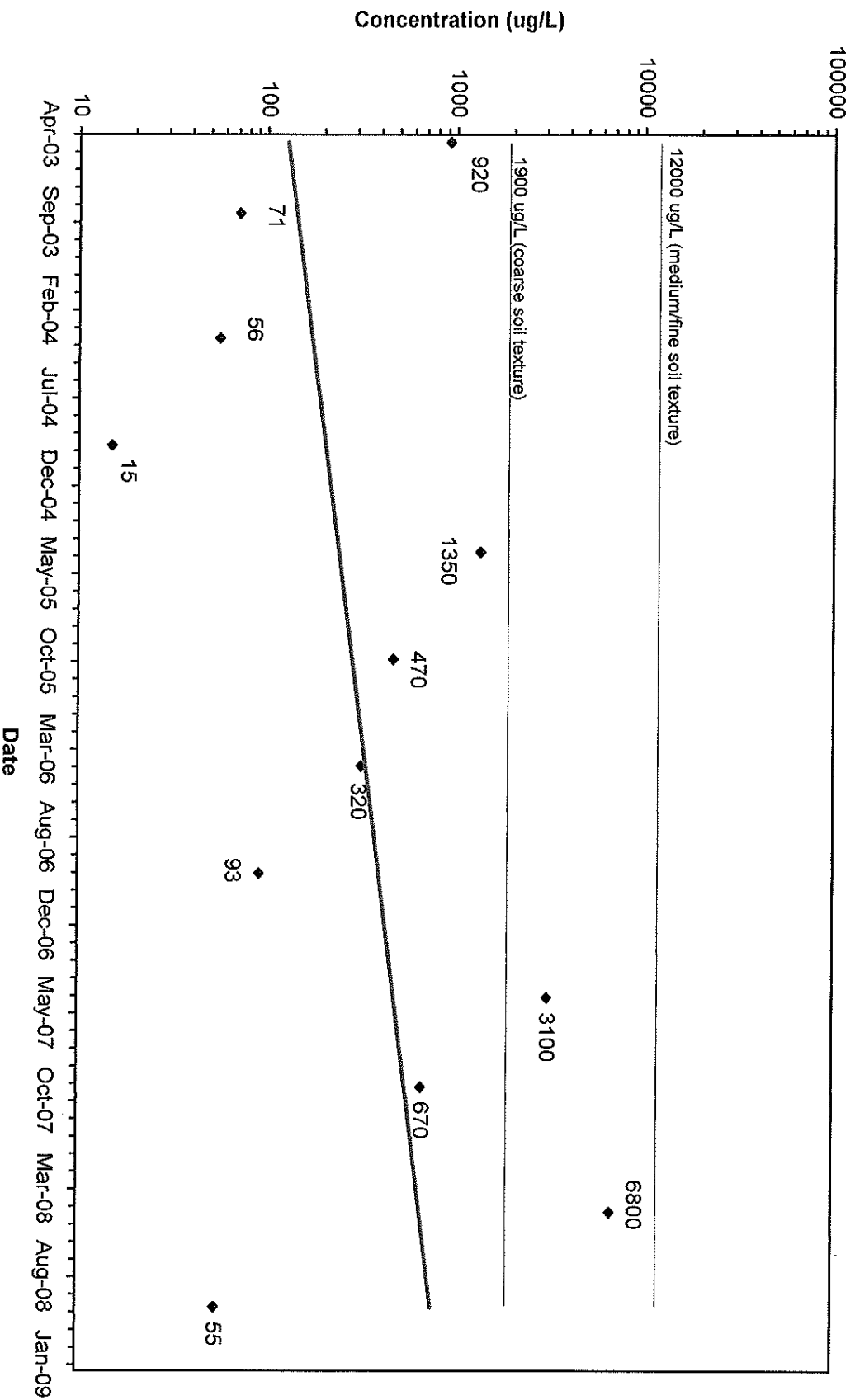
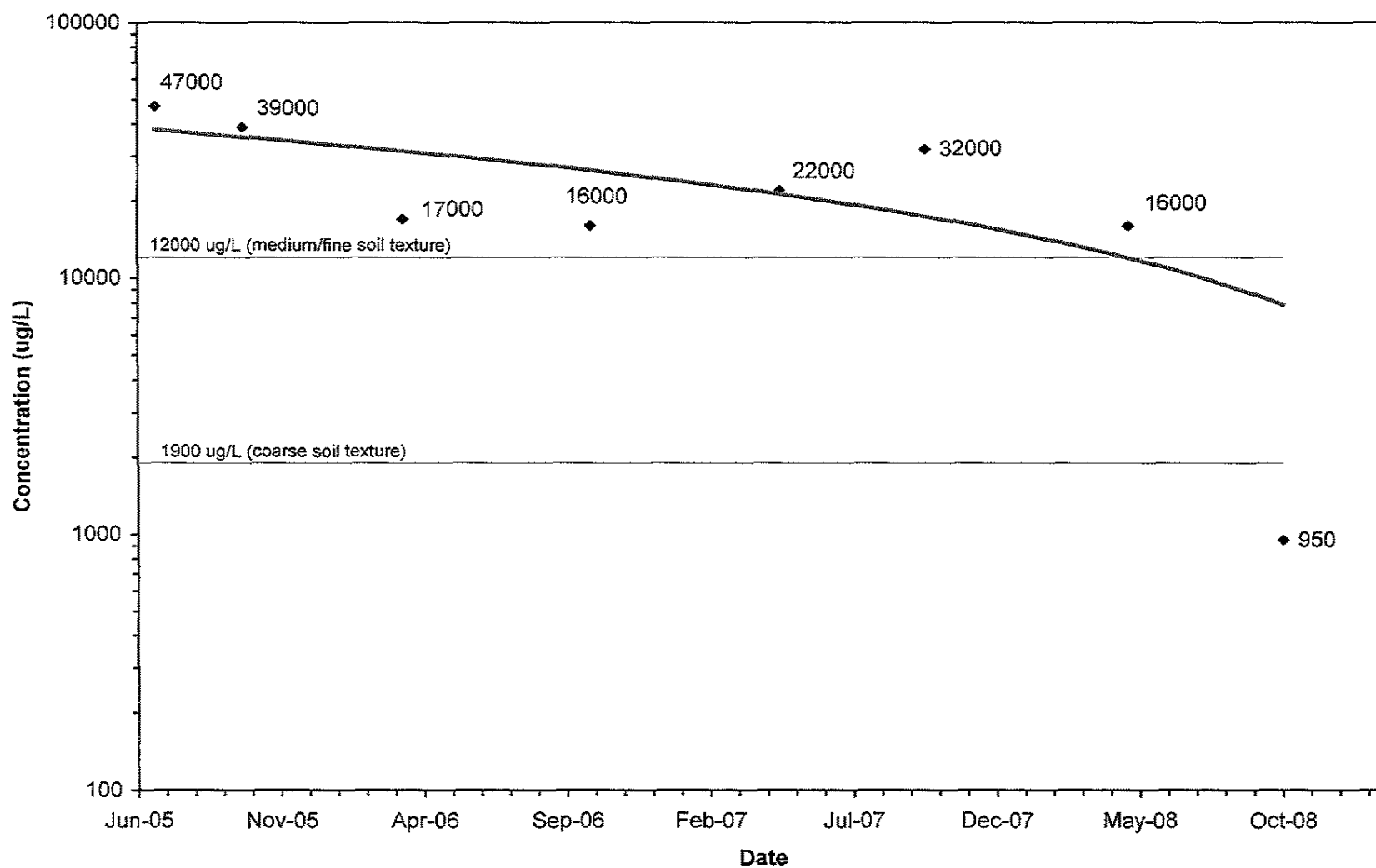



Figure 6: Regression Analysis Benzene Concentration

Sample Location: Recovery Well C



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TABLES

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: **BH90-109**

Table 1

Page 1 of 1

Sample Date		08-May-03	23-Oct-03	16-Apr-04	Oct-04	25-Apr-05	18-Oct-05	01-May-06	24-Oct-06	02-May-07	10-Oct-07	06-May-08	20-Oct-08	Ontario Regulation
Laboratory I.D.	RDL*	021294 03	062664 03	020299 04		F75803	I86938	L84829	P12338	S12814	V19162	Y52897	AV5065	153/04 Table 3
Ground Water Depth and Elevation (m)		-	1.77	0.18		0.67	1.76	1.97	1.93	2.18	3.61	1.78	2.24	Site Condition
		-	77.73	79.32		78.83	77.74	77.53	77.57	77.28	75.89	77.72	77.26	Standards **
Benzene	0.2	ND	ND	ND		ND	ND (0.1)	ND	ND	ND	ND	ND	ND	(12000) 1900
Toluene	0.2	ND (0.4)	ND (0.4)	ND (0.4)	Not sampled.	ND (0.4)	ND (0.2)	ND	ND	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2	ND (0.4)	ND (0.4)	ND (0.4)		ND (0.4)	ND (0.1)	ND	ND	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4	ND (0.5)	ND (0.5)	ND (0.5)		ND (0.5)	ND (0.1)	ND	ND	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for a residential/parkland/institutional property use in a non-potable ground water condition are in **bold**.

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Table 2

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: BH90-110

Page 1 of 1

Sample Date		08-May-03	Oct-03	Apr-04	20-Oct-04	25-Apr-05	31-Oct-05	28-Apr-06	24-Oct-06	02-May-07	10-Oct-07	06-May-08	23-Oct-08	Ontario Regulation
Laboratory I.D.	RDL*	021306 03			074512 04	F75802	J13592	L80104	P12339	S12815	V19163	Y52900	AW6004	153/04 Table 3
Ground Water Depth and Elevation (m)		-			0.59	0.57	-	1.62	1.61	1.80	2.80	1.60	1.93	Site Condition Standards **
		-			-	-	-	-	-	-	-	-	-	
Benzene	0.2	ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	(12000) 1900
Toluene	0.2	ND (0.4)	Not sampled.	Not sampled.	ND (0.4)	ND (0.4)	ND (0.4)	ND	ND	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2	ND (0.4)			ND (0.4)	ND (0.4)	ND	ND	ND	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4	ND (0.5)			ND (0.5)	ND (0.5)	ND (0.2)	ND	ND	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for a residential/parkland/institutional property use in a non-potable ground water condition are in **bold**.

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Table 3

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: BH90-111

Page 1 of 1

Sample Date		08-May-03	22-Oct-03	16-Apr-04	20-Oct-04	27-Apr-05	19-Oct-05	27-May-06	24-Oct-06	02-May-07	10-Oct-07	06-May-08	23-Oct-08	Ontario Regulation
Laboratory I.D.	RDL*	021292 03	062153 03	020310 04	074526 04	F81424	I89601	M26154	P12340	S12816	V19164	Y52902	AW6005	153/04 Table 3
Ground Water Depth and Elevation (m)		-	1.87	1.15	1.86	0.91	1.84	2.31	2.24	2.44	3.35	2.22	2.78	Site Condition
		-	76.74	77.46	76.75	77.70	76.77	76.30	76.37	76.17	75.26	76.39	-	Standards **
Benzene	0.2	ND	ND	ND	ND	ND	ND (0.1)	ND	ND	ND	ND	ND (0.2)	ND	(12000) 1900
Toluene	0.2	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND	ND	ND	ND	ND	ND (0.2)	ND	(37000) 5900
Ethylbenzene	0.2	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.1)	ND	ND	ND	ND	ND (0.2)	ND	(50000) 28000
Total Xylenes	0.4	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.1)	ND	ND	ND	ND	ND (0.4)	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for a residential/parkland/institutional property use in a non-potable ground water condition are in **bold**.

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GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: BH90-115

Table 4

Page 1 of 1

Sample Date		08-May-03	22-Oct-03	16-Apr-04	Oct-04	27-Apr-05	18-Oct-05	28-Apr-06	24-Oct-06	02-May-07	10-Oct-07	06-May-08	23-Oct-08	Ontario Regulation
Laboratory I.D.	RDL*	021299 03	06150 03	020304 04		F81434	I86932	L80105	P12341	S12817	V19165	Y52903	AW6007	153/04 Table 3
Ground Water Depth and Elevation (m)		-	3.21	2.12		1.76	3.21	2.13	2.51	2.46	3.67	1.98	3.03	Site Condition
		-	74.58	75.67		76.03	74.58	75.66	75.28	75.33	74.12	75.81	-	Standards **
Benzene	0.2	ND	ND	ND		ND	ND (0.1)	ND	ND	ND	ND	ND	ND	(12000) 1900
Toluene	0.2	ND (0.4)	ND (0.4)	ND (0.4)	Not sampled.	ND (0.4)	ND (0.2)	ND	ND	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2	ND (0.4)	ND (0.4)	ND (0.4)		ND (0.4)	ND (0.1)	ND	ND	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4	ND (0.5)	ND (0.5)	ND (0.5)		ND (0.5)	ND (0.1)	ND	ND	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for a residential/parkland/institutional property use in a non-potable ground water condition are in **bold**.

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Table 5

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: BH90-116

Page 1 of 1

Sample Date		May-03	Oct-03	Apr-04	21-Oct-04	Apr-05	31-Oct-05	28-Apr-06	25-Oct-06	02-May-07	Oct-07	06-May-08	Oct-08	Ontario Regulation
Laboratory I.D.	RDL*				075028 04		J13591	L80106	P12342	S12818		Y52907		153/04 Table 3
Ground Water Depth and Elevation (m)					2.81 74.98		nm	2.99 74.80	2.49 75.30	3.26 74.53		2.87 74.92	3.70 74.09	Site Condition Standards **
Benzene	0.2				ND		ND (0.1)	ND	ND	ND		ND		(12000) 1900
Toluene	0.2	Not sampled.	Not sampled.	Not sampled.	ND(0.4)	Not sampled.	ND (0.2)	ND	ND	ND	Not sampled.	ND	Not sampled (dry)	(37000) 5900
Ethylbenzene	0.2				ND(0.4)		ND (0.1)	ND	ND	ND		ND		(50000) 28000
Total Xylenes	0.4				ND(0.5)		ND (0.1)	ND	ND	ND		ND		(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for a residential/parkland/institutional property use in a non-potable ground water condition are in **bold**.

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Table 6

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: **BH90-203**

Page 1 of 1

Sample Date		08-May-03	23-Oct-03	16-Apr-04	20-Oct-04	25-Apr-05	19-Oct-05	28-Apr-06	25-Oct-06	03-May-07	Oct-07	07-May-08	21-Oct-08	Ontario Regulation
Laboratory I.D.	RDL*	021311 03	062662 03	020302 04	074524 04	F75809	I89595	L80087	P12343	S16063		Y53010	AV8501	153/04 Table 3
Ground Water Depth and Elevation (m)		-	2.80	1.29	2.86	1.03	2.75	2.18	2.04	2.19		2.19	1.88	Site Condition Standards **
Benzene	0.2	ND	1.0	ND	5.2	0.2	1.4	1.0	1.0	7.3		ND	3.3	(12000) 1900
Toluene	0.2	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.2)	ND	ND	ND	Not sampled.	ND	ND	(37000) 5900
Ethylbenzene	0.2	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.1)	ND	ND	ND		ND	ND	(50000) 28000
Total Xylenes	0.4	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.1)	ND	ND	ND		ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for a residential/parkland/institutional property use in a non-potable ground water condition are in **bold**.

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Table 7

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: **BH90-204**

Page 1 of 1

Sample Date		08-May-03	23-Oct-03	16-Apr-04	Oct-04	25-Apr-05	19-Oct-05	28-Apr-06	25-Oct-06	03-May-07	12-Oct-07	07-May-08	21-Oct-08	Ontario Regulation
Laboratory I.D.	RDL*	021288 03	062663 03	020301 04		F75798	I89592	L80088	P12344	S16064	V24875	Y53006	AV8504	153/04 Table 3
Ground Water Depth and Elevation (m)		-	1.32	0.22		0.17	1.42	1.23	1.21	1.29	2.98	2.17	1.87	Site Condition Standards **
		-	-	-		-	-	-	-	-	-	-	-	
Benzene	0.2	ND	ND	ND		420	80	2.3	1.0	17	0.5	69	32	(12000) 1900
Toluene	0.2	ND (0.4)	ND (0.4)	ND (0.4)	Not sampled.	ND (4)	ND (2)	ND	ND	ND	1.2	ND	0.5	(37000) 5900
Ethylbenzene	0.2	ND (0.4)	ND (0.4)	ND (0.4)		ND (4)	ND (1)	ND	ND	ND	ND	0.7	0.3	(50000) 28000
Total Xylenes	0.4	ND (0.5)	ND (0.5)	ND (0.5)		ND (9)	3	0.5	ND	1.6	4.3	1.2	1.5	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for a residential/parkland/institutional property use in a non-potable ground water condition are in **bold**.

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GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

Table 8

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: **BH90-205**

Page 1 of 1

Sample Date		08-May-03	23-Oct-03	16-Apr-04	20-Oct-04	25-Apr-05	19-Oct-05	01-May-06	25-Oct-06	03-May-07	11-Oct-07	07-May-08	20-Oct-08	Ontario Regulation
Laboratory I.D.	RDL*	021285 03	062659 03	020300 04	074522 04	F75799	I89591	L84842	P12345	S16065	V22685	Y53001	AV5066	153/04 Table 3
Ground Water Depth and Elevation (m)		-	1.54	0.22	1.71	0.15	1.27	1.37	1.33	1.28	3.17	2.28	2.01	Site Condition Standards **
Benzene	0.2	310	170	1.3	37	2.9	109	27	0.5	2.1	7.8	1.6	ND	(12000) 1900
Toluene	0.2	ND (2.0)	5.2	ND (0.4)	5.3	ND (0.4)	5	1.0	ND	0.3	3.3	ND	0.6	(37000) 5900
Ethylbenzene	0.2	ND (2.0)	0.5	ND (0.4)	ND (0.4)	ND (0.4)	ND (1)	ND	ND	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4	ND (2.5)	4.5	ND (0.5)	5.2	ND (0.5)	5	0.9	ND	0.7	5.3	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for a residential/parkland/institutional property use in a non-potable ground water condition are in **bold**.

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GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

Table 9

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: BH90-208

Page 1 of 1

Sample Date		08-May-03	23-Oct-03	16-Apr-04	20-Oct-04	25-Apr-05	19-Oct-05	28-Apr-06	25-Oct-06	03-May-07	11-Oct-07	07-May-08	20-Oct-08	Ontario Regulation
Laboratory I.D.	RDL*	021281 03	062655 03	020297 04	075024 04	F75797	I89593	L80090	P12346	S16066	V22687	Y52997	AV5067	153/04 Table 3
Ground Water Depth and Elevation (m)		-	1.54	0.30	1.78	0.18	1.52	1.10	1.36	1.21	3.27	0.36	2.06	Site Condition Standards **
Benzene	2	19000	16000	15000	10000	9250	9200	6700	2600	2700	850	350	64	(12000) 1900
Toluene	2	ND (86)	ND (80)	ND (40)	ND (40)	ND (40)	ND (200)	ND (10)	ND	ND	ND (1)	ND	ND	(37000) 5900
Ethylbenzene	2	ND (86)	ND (80)	ND (40)	ND (40)	ND (40)	ND (100)	ND (10)	ND	ND	ND (1)	ND	ND	(50000) 28000
Total Xylenes	4	ND (110)	ND (100)	ND (50)	ND (50)	ND (50)	ND (100)	ND (20)	ND	ND	ND (2)	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for a residential/parkland/institutional property use in a non-potable ground water condition are in **bold**.

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Table 10

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: BH90-209

Page 1 of 1

Sample Date		08-May-03	23-Oct-03	16-Apr-04	21-Oct-04	27-Apr-05	18-Oct-05	28-Apr-06	25-Oct-06	02-May-07	11-Oct-07	07-May-08	20-Oct-08	Ontario Regulation
Laboratory I.D.	RDL*	021284 03	062653 03	020293 04	075027 04	F81419	I86942	L80091	P12347	S12819	V22688	Y52995	AV5068	153/04 Table 3
Ground Water Depth and Elevation (m)		-	2.52	0.31	2.49	0.72	2.30	1.68	1.78	1.80	3.43	2.60	2.22	Site Condition Standards **
		-	-	-	-	-	-	-	-	-	-	-	-	
Benzene	0.2	170	99	110	87	108	86	94	90	98	77	79	75	(12000) 1900
Toluene	0.2	52	55	31	35	28.5	38	28	41	35	30	27	25	(37000) 5900
Ethylbenzene	0.2	78	56	76	37	61	63	76	57	76	58	36	41	(50000) 28000
Total Xylenes	0.4	260	250	240	160	206	270	240	240	280	270	150	200	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for a residential/parkland/institutional property use in a non-potable ground water condition are in **bold**.

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Table 11

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: BH90-210

Page 1 of 1

Sample Date		08-May-03	22-Oct-03	16-Apr-04	21-Oct-04	27-Apr-05	18-Oct-05	02-May-06	25-Oct-06	03-May-07	11-Oct-07	06-May-08	22-Oct-08	Ontario Regulation
Laboratory I.D.	RDL*	021290 03	062139 03	020317 04	075033 04	F81427	I86947	L84830	P12348	S16067	V22691	Y52923	AW2414	153/04 Table 3
Ground Water Depth and Elevation (m)		-	3.69	3.40	3.56	3.18	4.67	4.36	4.53	4.19	4.75	-	4.64	Site Condition
		-	74.77	75.06	74.90	75.28	73.79	74.10	73.93	74.27	73.71	-	73.82	Standards **
Benzene	0.2	ND	ND	ND	ND	ND	ND (0.1)	ND	ND	ND	ND	ND	ND	(12000) 1900
Toluene	0.2	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.2)	ND	ND	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.1)	ND	ND	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.1)	ND	ND	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for a residential/parkland/institutional property use in a non-potable ground water condition are in **bold**.

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Table 12

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: BH90-211

Page 1 of 1

Sample Date		May-03	Oct-03	Apr-04	Oct-04	Apr-05	20-Oct-05	02-May-06	24-Oct-06	02-May-07	09-Oct-07	06-May-08	17-Oct-08	Ontario Regulation
Laboratory I.D.	RDL*						I92657	L84831	P12349	S12820	V19167	Y52921	AV0807	153/04 Table 3
Ground Water Depth and Elevation (m)							4.09	3.77	3.89	3.25	4.06	3.31	4.02	Site Condition Standards **
Benzene	0.2						3.2	1.8	5.9	4.8	7.7	2.2	9.7	(12000) 1900
Toluene	0.2	Not sampled.	Not sampled.	Not sampled.	Not sampled.	Not sampled.	0.4	ND	0.4	ND	8.9	ND	0.6	(37000) 5900
Ethylbenzene	0.2						ND	ND	ND	ND	ND	ND	1.3	(50000) 28000
Total Xylenes	0.4						1.3	ND	1.2	0.6	2.0	ND	1.5	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for a residential/parkland/institutional property use in a non-potable ground water condition are in **bold**.

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Table 13

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: **BH90-212**

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Sample Date		08-May-03	22-Oct-03	16-Apr-04	21-Oct-04	27-Apr-05	19-Oct-05	02-May-06	25-Oct-06	02-May-07	11-Oct-07	06-May-08	20-Oct-08	Ontario Regulation
Laboratory I.D.	RDL*	021310 03	062144 03	020315 04	075036 04	F81430	I89605	L84832	P12350	S12821	V22690	Y52915	AV5070	153/04 Table 3
Ground Water Depth and Elevation (m)		-	6.41	5.91	6.41	5.78	5.63	5.51	4.05	5.40	6.37	5.31	5.91	Site Condition Standards **
		-	75.08	75.58	75.08	75.71	75.86	75.98	77.44	76.09	75.12	76.18	75.58	
Benzene	0.2	ND	ND	ND	ND	ND	ND (0.1)	ND	ND	ND	ND	ND	ND	(12000) 1900
Toluene	0.2	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.2)	ND	ND	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.1)	ND	ND	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.1)	ND	ND	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for a residential/parkland/institutional property use in a non-potable ground water condition are in **bold**.

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Table 14

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: BH90-216

Page 1 of 1

Sample Date		May-03	Oct-03	Apr-04	21-Oct-04	Apr-05	18-Oct-05	02-May-06	25-Oct-06	02-May-07	11-Oct-07	07-May-08	20-Oct-08	Ontario Regulation
Laboratory I.D.	RDL*				075040 04		186929	L84833	P12351	S12822	V22684	Y52991	AV5071	153/04 Table 3
Ground Water Depth and Elevation (m)					2.16		2.11	1.77	1.93	2.82	3.01	1.79	2.35	Site Condition Standards **
					-		-	-	-	-	-	-	-	
Benzene	0.2				ND		ND (0.1)	ND	ND	ND	ND	ND	ND	(12000) 1900
Toluene	0.2	Not sampled.	Not sampled.	Not sampled.	ND (0.4)	Not sampled.	ND (0.2)	ND	ND	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2				ND (0.4)		ND (0.1)	ND	ND	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4				ND (0.5)		ND (0.1)	ND	ND	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for a residential/parkland/institutional property use in a non-potable ground water condition are in **bold**.

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Table 15

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: BH90-217

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Sample Date		08-May-03	22-Oct-03	16-Apr-04	21-Oct-04	27-Apr-04	31-Oct-05	02-May-06	24-Oct-06	02-May-07	10-Oct-07	06-May-08	17-Oct-08	Ontario Regulation
Laboratory I.D.	RDL*	021295 03	062141 03	020314 04	075038 04	F81429	J13593	L84834	P12352	S12823	V19166	Y52919	AV0808	153/04 Table 3
Ground Water Depth and Elevation (m)		-	3.30	2.79	3.20	2.43	3.72	2.56	2.71	2.35	3.08	2.18	4.06	Site Condition Standards **
		-	74.43	74.97	74.53	75.30	74.01	75.17	75.02	75.38	74.65	75.55	73.67	
Benzene	0.2	22	1.2	15	0.40	3.3	ND	3.9	2.1	5.1	ND	3.7	1.6	(12000) 1900
Toluene	0.2	ND (4.0)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND	0.7	ND	ND	ND	0.7	(37000) 5900
Ethylbenzene	0.2	ND (4.0)	ND (0.4)	0.4	ND (0.4)	ND (0.4)	ND (0.4)	0.2	ND	ND	ND	ND	0.3	(50000) 28000
Total Xylenes	0.4	ND (5.0)	ND (0.5)	0.70	ND (0.5)	0.6	ND (0.5)	0.6	1.5	ND	ND	0.6	2.6	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for a residential/parkland/institutional property use in a non-potable ground water condition are in **bold**.

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Table 16

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: BH90-218A

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Sample Date		May-03	Oct-03	Apr-04	Oct-04	Apr-05	20-Oct-05	02-May-06	24-Oct-06	02-May-07	09-Oct-07	06-May-08	17-Oct-08	Ontario Regulation
Laboratory I.D.	RDL*						I92654	L84835	P12353	S12824	V19168	Y52917	AV0809	153/04 Table 3
Ground Water Depth and Elevation (m)							4.48	4.24	4.37	4.08	4.50	-	4.45	Site Condition Standards **
							-	-	-	-	-	-	-	
Benzene	0.2						ND (0.1)	ND	ND	ND	ND	ND	ND	(12000) 1900
Toluene	0.2	Not sampled.	Not sampled.	Not sampled.	Not sampled.	Not sampled.	ND (0.2)	ND	ND	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2						ND (0.1)	ND	ND	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4						ND (0.1)	ND	ND	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for a residential/parkland/institutional property use in a non-potable ground water condition are in **bold**.

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Table 17

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: **BH92-305**

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Sample Date		May-03	Oct-03	Apr-04	21-Oct-04	Apr-05	19-Oct-05	28-Apr-06	24-Oct-06	03-May-07	12-Oct-07	07-May-08	21-Oct-08	Ontario Regulation
Laboratory I.D.	RDL*				075019 04		189596	L80092	P12354	S16068	V24877	Y53000	AV8500	153/04 Table 3
Ground Water Depth and Elevation (m)					1.96		1.96	1.25	1.24	1.26	2.90	1.26	1.36	Site Condition Standards **
Benzene	0.2				8.8		ND (3)	3.8	1.2	14	4.2	1.7	8.6	(12000) 1900
Toluene	0.2	Not sampled.	Not sampled.	Not sampled.	ND	Not sampled.	ND (5)	ND	ND	ND	ND	0.5	19	(37000) 5900
Ethylbenzene	0.2				ND		ND (3)	ND	ND	ND	ND	ND	1.9	(50000) 28000
Total Xylenes	0.4				1.4		ND (3)	ND	ND	1.1	ND	ND	6.9	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for a residential/parkland/institutional property use in a non-potable ground water condition are in **bold**.

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Table 18

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: BH92-306

Page 1 of 1

Sample Date		May-03	Oct-03	Apr-04	Oct-04	25-Apr-05	19-Oct-05	28-Apr-06	25-Oct-06	03-May-07	11-Oct-07	07-May-08	21-Oct-08	Ontario Regulation
Laboratory I.D.	RDL*					F75796	I89597	L80093	P12355	S16069	V24882	Y52998	AV8499	153/04 Table 3
Ground Water Depth and Elevation (m)						0.34	1.92	1.35	1.33	1.49	2.94	1.41	2.78	Site Condition Standards **
						-	-	-	-	-	-	-	-	
Benzene	0.2					ND	ND	ND	ND	ND	ND	ND	ND	(12000) 1900
Toluene	0.2	Not sampled.	Not sampled.	Not sampled.	Not sampled.	ND (0.4)	ND	ND	ND	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2					ND (0.4)	ND	ND	ND	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4					ND (0.5)	ND (0.2)	ND	ND	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for a residential/parkland/institutional property use in a non-potable ground water condition are in **bold**.

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Table 19

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: BH92-307

Page 1 of 1

Sample Date		May-03	Oct-03	Apr-04	Oct-04	Apr-05	18-Oct-05	28-Apr-06	25-Oct-06	02-May-07	11-Oct-07	07-May-08	20-Oct-08	Ontario Regulation
Laboratory I.D.	RDL*						186943	L80097	P12356	S12825	V22689	Y52994	AV5073	153/04 Table 3
Ground Water Depth and Elevation (m)							4.41	2.69	2.68	2.69	4.74	2.42	4.10	Site Condition Standards **
							-	-	-	-	-	-	-	
Benzene	0.2						ND (0.1)	ND	ND	ND	ND	ND	ND	(12000) 1900
Toluene	0.2	Not sampled.	Not sampled.	Not sampled.	Not sampled.	Not sampled.	ND (0.2)	ND	ND	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2						ND (0.1)	ND	ND	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4						ND (0.1)	ND	ND	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for a residential/parkland/institutional property use in a non-potable ground water condition are in **bold**.

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Table 20

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: BH92-309

Page 1 of 1

Sample Date		08-May-03	22-Oct-03	16-Apr-04	21-Oct-04	27-Apr-05	10-Oct-05	02-May-06	24-Oct-06	02-May-07	10-Oct-07	06-May-08	17-Oct-08	Ontario Regulation
Laboratory I.D.	RDL*	021309 03	062142 03	020316 04	075042 04	F81433	I92655	L84836	P12357	S12826	V19190	Y52918	AV0810	153/04 Table 3
Ground Water Depth and Elevation (m)		-	3.87	3.44	3.80	3.01	3.07	3.35	4.32	3.23	4.50	-	3.70	Site Condition
		-	74.74	75.17	74.81	75.60	75.54	75.26	74.29	75.38	74.11	-	-	Standards **
Benzene	0.2	ND	ND	ND	ND	ND	ND (0.1)	ND	ND	ND	ND	ND	ND	(12000) 1900
Toluene	0.2	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.2)	ND	ND	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.1)	ND	ND	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.1)	ND	ND	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for a residential/parkland/institutional property use in a non-potable ground water condition are in **bold**.

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Table 21

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: BH92-310

Page 1 of 1

Sample Date		08-May-03	23-Oct-03	16-Apr-04	20-Oct-04	25-Apr-05	19-Oct-05	28-Apr-06	25-Oct-06	03-May-07	12-Oct-07	07-May-08	21-Oct-08	Ontario Regulation
Laboratory I.D.	RDL*	021303 03	062660 03	020303 04	074519 04	F75804	I89594	L80094	P12358	S16070	V24881	Y53007	AV8502	153/04 Table 3
Ground Water Depth and Elevation (m)		-	1.76	0.17	1.84	0.03	1.74	1.10	1.07	1.20	3.00	1.10	1.88	Site Condition Standards **
		-	-	-	-	-	-	-	-	-	-	-	-	
Benzene	0.2	920	71	56	15	1350	470	320	93	3100	670	6800	55	(12000) 1900
Toluene	0.4	ND	ND	ND	ND	ND	ND (10)	ND (0.2)	ND (0.2)	ND (2)	ND (2)	ND (4)	ND	(37000) 5900
Ethylbenzene	0.4	0.6	ND	ND	ND	ND	ND (5)	ND (0.2)	ND (0.2)	ND (2)	ND (2)	ND (4)	ND	(50000) 28000
Total Xylenes	0.5	ND	ND	ND	ND	ND	ND (5)	ND (0.4)	ND (0.4)	ND (4)	ND (4)	ND (8)	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for a residential/parkland/institutional property use in a non-potable ground water condition are in **bold**.

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Table 22

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: BH92-311

Page 1 of 1

Sample Date		08-May-03	23-Oct-03	30-Apr-04	20-Oct-04	27-Apr-05	19-Oct-05	28-Apr-06	25-Oct-06	03-May-07	11-Oct-07	07-May-08	20-Oct-08	Ontario Regulation
Laboratory I.D.	RDL*	021300 03	062657 03	024164 04	074516 04	F81418	I89606	L80095	P12359	S16071	V22686	Y53002	AV5069	153/04 Table 3
Ground Water Depth and Elevation (m)		-	1.03	-	1.36	-0.10	1.12	0.82	0.83	0.81	2.64	1.82	1.13	Site Condition Standards **
		-	-	-	-	-	-	-	-	-	-	-	-	
Benzene	0.2	12000	810	15000	1200	18600	730	19000	640	19000	610	13000	250	(12000) 1900
Toluene	0.2	ND (17)	ND (4.0)	ND (80)	ND	ND (40)	ND (20)	ND (20)	ND (0.4)	ND (10)	ND (1)	ND (10)	ND	(37000) 5900
Ethylbenzene	0.2	ND (17)	ND (4.0)	ND (80)	0.9	ND (40)	ND (10)	ND (20)	0.5	ND (10)	ND (1)	ND (10)	0.2	(50000) 28000
Total Xylenes	0.4	ND (22)	ND (5.0)	ND (100)	ND	ND (50)	ND (10)	ND (40)	ND (0.8)	ND (20)	ND (2)	ND (20)	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for a residential/parkland/institutional property use in a non-potable ground water condition are in **bold**.

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Table 23

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: BH92-312

Page 1 of 1

Sample Date		08-May-03	23-Oct-03	16-Apr-04	21-Oct-04	27-Apr-05	19-Oct-05	28-Apr-06	25-Oct-06	03-May-07	Oct-07	07-May-08	20-Oct-08	Ontario Regulation
Laboratory I.D.	RDL*	021297 03	062654 03	020295 04	075030 04	F81416	I89589	L80096	P12360	S16072		Y52996	AV5075	153/04 Table 3
Ground Water Depth and Elevation (m)		-	1.78	0.76	2.34	0.17	1.94	1.51	1.65	1.94		1.95	2.47	Site Condition Standards **
		-	-	-	-	-	-	-	-	-		-	-	
Benzene	0.2	0.2	ND	ND	ND	0.3	ND (0.1)	ND	ND	ND	Not sampled.	0.3	ND	(12000) 1900
Toluene	0.2	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.2)	ND	ND	ND		ND	ND	(37000) 5900
Ethylbenzene	0.2	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.1)	ND	ND	ND		ND	ND	(50000) 28000
Total Xylenes	0.4	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.1)	ND	ND	ND		ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for a residential/parkland/institutional property use in a non-potable ground water condition are in **bold**.

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Table 24

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: BH92-314

Page 1 of 1

Sample Date		08-May-03	22-Oct-03	16-Apr-04	21-Oct-04	27-Apr-05	20-Oct-05	Apr-06	24-Oct-06	02-May-07	09-Oct-07	06-May-08	17-Oct-08	Ontario Regulation
Laboratory I.D.	RDL*	021282 03	062143 03	020319 04	075041 04	F81432	I92653		P12361	S12827	V19171	Y52916	AV0811	153/04 Table 3
Ground Water Depth and Elevation (m)		-	4.83	4.71	4.80	4.64	5.71		6.13	6.10	6.51	-	6.17	Site Condition
		-	75.40	75.52	75.43	75.59	74.52		74.10	74.13	73.72	-	74.06	Standards **
Benzene	0.2	ND	ND	ND	ND	ND	ND (0.1)	Not sampled.	ND	ND	ND	ND	ND	(12000) 1900
Toluene	0.2	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.2)		ND	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.1)		ND	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.1)		ND	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for a residential/parkland/institutional property use in a non-potable ground water condition are in **bold**.

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Table 25

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: BH92-315

Page 1 of 1

Sample Date		08-May-03	Oct-03	Apr-04	20-Oct-04	25-Apr-05	Oct-05	28-Apr-06	25-Oct-06	03-May-07	12-Oct-07	07-May-08	21-Oct-08	Ontario Regulation
Laboratory I.D.	RDL*	021287 03			-	F75805		L80098	P12362	S16073	V24880	Y53008	AV8503	153/04 Table 3
Ground Water Depth and Elevation (m)		-			-	0.16		1.48	1.40	1.51	2.80	1.47	1.65	Site Condition Standards **
		-			-	-		-	-	-	-	-	-	
Benzene	0.2	ND				ND		ND	ND	ND	ND	ND	ND	(12000) 1900
Toluene	0.2	0.5	Not sampled.	Not sampled.	Not sampled (insufficient water volume).	ND (0.4)	Not sampled	ND	ND	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2	ND (0.4)				ND (0.4)		ND	ND	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4	ND (0.5)				ND (0.5)		ND	ND	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for a residential/parkland/institutional property use in a non-potable ground water condition are in **bold**.

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Table 26

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: BH92-316

Page 1 of 1

Sample Date		08-May-03	Oct-03	Apr-04	20-Oct-04	25-Apr-05	Oct-05	28-Apr-06	25-Oct-06	03-May-07	12-Oct-07	07-May-08	21-Oct-08	Ontario Regulation
Laboratory I.D.	RDL*	021296 03			074521 04	F75808		L30099	P12363	S16074	V24879	Y53005	AV8506	153/04 Table 3
Ground Water Depth and Elevation (m)		-			1.94	0.46		1.48	1.44	1.55	2.89	1.46	1.91	Site Condition Standards **
		-			-	-		-	-	-	-	-	-	
Benzene	0.2	ND			ND	0.6		1.3	ND	1.0	ND	1.0	ND	(12000) 1900
Toluene	0.2	ND (0.4)	Not sampled.	Not sampled.	ND (0.4)	ND (0.4)	Not sampled	ND	ND	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2	ND (0.4)			ND (0.4)	ND (0.4)		ND	ND	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4	ND (0.5)			ND (0.5)	ND (0.5)		ND	ND	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for a residential/parkland/institutional property use in a non-potable ground water condition are in **bold**.

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Table 27

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: BH92-317

Page 1 of 1

Sample Date		08-May-03	23-Oct-03	16-Apr-04	20-Oct-04	25-Apr-05	18-Oct-05	28-Apr-06	25-Oct-06	May-07	Oct-07	May-08	Oct-08	Ontario Regulation
Laboratory I.D.	RDL*	021298 03	062656 03	020294 04	074523 04	F75800	I89590	L80100	P12364					153/04 Table 3
Ground Water Depth and Elevation (m)		-	1.58	0.82	1.81	0.62	1.48	1.59	1.61					Site Condition Standards **
Benzene	0.2	17	42	25	97	30	12	6.4	5.9	Not sampled, Monitor obstruction	Not sampled, Monitor obstruction	Not sampled, Monitor obstruction	Not sampled, Monitor obstruction	(12000) 1900
Toluene	0.2	2.5	2.6	0.9	4.1	2.9	ND (1)	ND	ND	Not sampled, Monitor obstruction	Not sampled, Monitor obstruction	Not sampled, Monitor obstruction	Not sampled, Monitor obstruction	(37000) 5900
Ethylbenzene	0.2	2.7	1.2	1.1	1.9	2.8	1.1	ND	ND	Not sampled, Monitor obstruction	Not sampled, Monitor obstruction	Not sampled, Monitor obstruction	Not sampled, Monitor obstruction	(50000) 28000
Total Xylenes	0.4	3.0	4.3	1.7	8.3	4.4	1.0	ND	0.8	Not sampled, Monitor obstruction	Not sampled, Monitor obstruction	Not sampled, Monitor obstruction	Not sampled, Monitor obstruction	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for a residential/parkland/institutional property use in a non-potable ground water condition are in **bold**.

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Table 28

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: BH92-318A

Page 1 of 1

Sample Date		08-May-03	Oct-03	Apr-04	Oct-04	27-Apr-05	Oct-05	01-May-06	25-Oct-06	02-May-07	10-Oct-07	06-May-08	23-Oct-08	Ontario Regulation
Laboratory I.D.	RDL*	021305 03				F81423		L84837	P12365	S12828	V19185	Y52906	AW6009	153/04 Table 3
Ground Water Depth and Elevation (m)		-				2.27		3.10	3.13	3.13	3.83	3.05	3.61	Site Condition
		-				-		-	-	-	-	-	-	Standards **
Benzene	0.2	ND				ND		ND	ND	ND	ND	ND	ND	(12000) 1900
Toluene	0.2	ND (0.4)	Not sampled.	Not sampled.	Not sampled	ND (0.4)	Not sampled	ND	ND	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2	ND (0.4)				ND (0.4)		ND	ND	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4	1.1				0.7		ND	0.6	0.5	0.5	0.6	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for a residential/parkland/institutional property use in a non-potable ground water condition are in **bold**.

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Table 29

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: **BH92-320**

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Sample Date		08-May-03	22-Oct-03	16-Apr-04	21-Oct-04	27-Apr-05	18-Oct-05	01-May-06	24-Oct-06	02-May-07	10-Oct-07	06-May-08	23-Oct-08	Ontario Regulation
Laboratory I.D.	RDL*	021289 03	062146 03	020311 04	075034 04	F81428	I86931	L84838	P12366	S12829	V19169	Y52904	AW6010	153/04 Table 3
Ground Water Depth and Elevation (m)		-	2.45	1.90	2.40	0.70	2.25	2.88	2.93	2.81	3.42	2.76	3.22	Site Condition
		-	74.96	75.51	75.01	76.71	75.16	74.53	74.48	74.60	73.99	74.65	74.19	Standards **
Benzene	0.2	ND	ND	ND	ND	ND	ND (0.1)	ND	ND	ND	ND	ND	ND	(12000) 1900
Toluene	0.2	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.2)	ND	ND	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.1)	ND	ND	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.1)	ND	ND	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for a residential/parkland/institutional property use in a non-potable ground water condition are in **bold**.

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Table 30

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: BH92-321

Page 1 of 1

Sample Date		08-May-03	22-Oct-03	16-Apr-04	21-Oct-04	27-Apr-05	20-Oct-05	02-May-06	24-Oct-06	02-May-07	09-Oct-07	06-May-08	17-Oct-08	Ontario Regulation
Laboratory I.D.	RDL*	021308 03	062145 03	020313 04	075035 04	F81431	I92652	L84839	P12367	S12830	V19182	Y52905	AV0814	153/04 Table 3
Ground Water Depth and Elevation (m)		-	2.96	1.29	3.02	1.19	2.64	1.60	3.05	1.66	3.33	2.63	3.01	Site Condition
		-	74.80	76.47	74.74	76.57	75.12	76.16	74.71	76.10	74.43	75.13	74.75	Standards **
Benzene	0.2	ND	ND	ND	ND	ND	ND (0.1)	ND	ND	ND	ND	ND	ND	(12000) 1900
Toluene	0.2	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.2)	ND	ND	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.1)	ND	ND	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.1)	ND	ND	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for a residential/parkland/institutional property use in a non-potable ground water condition are in **bold**.

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Table 31

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: BH92-322

Page 1 of 1

Sample Date		08-May-03	22-Oct-03	16-Apr-04	21-Oct-04	Apr-05	18-Oct-05	28-Apr-06	25-Oct-06	02-May-07	10-Oct-07	06-May-08	23-Oct-08	Ontario Regulation
Laboratory I.D.	RDL*	021307 03	062147 03	020306 04	075031 04		186939	L80107	P12409	S12831	V19170	Y52908	AW6008	153/04 Table 3
Ground Water Depth and Elevation (m)		-	1.76	1.24	2.05		3.36	3.46	3.63	3.30	4.02	3.11	3.80	Site Condition Standards **
		-	76.55	77.07	76.25		74.94	74.84	74.67	75.00	74.29	75.20	78.31	
Benzene	0.2	2.0	52	78	64	Not sampled.	49	2.5	4.3	3.1	4.5	4.2	3.1	(12000) 1900
Toluene	0.2	ND (0.4)	1.3	1.3	1.2		ND (1)	ND	ND	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)		ND (0.5)	ND	ND	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4	ND (0.5)	0.50	ND (0.5)	0.70		ND (0.5)	ND	ND	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for a residential/parkland/institutional property use in a non-potable ground water condition are in **bold**.

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Table 32

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: **BH92-323**

Page 1 of 1

Sample Date		May-03	Oct-03	Apr-04	Oct-04	Apr-05	18-Oct-05	26-Apr-06	25-Oct-06	02-May-07	Oct-07	07-May-08	20-Oct-08	Ontario Regulation
Laboratory I.D.	RDL*						186928	L80101	P12410	S12832		Y52993	AV5077	153/04 Table 3
Ground Water Depth and Elevation (m)							4.13	3.61	2.71	4.08		4.08	4.08	Site Condition Standards **
							-	-	-	-		-	-	
Benzene	0.2						ND (0.1)	ND	ND	ND		ND	ND	(12000) 1900
Toluene	0.2	Not sampled.	Not sampled.	Not sampled.	Not sampled.	Not sampled.	ND (0.2)	ND	ND	ND	Not sampled.	ND	ND	(37000) 5900
Ethylbenzene	0.2						ND (0.1)	ND	ND	ND		ND	ND	(50000) 28000
Total Xylenes	0.4						ND (0.1)	ND	ND	ND		ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for a residential/parkland/institutional property use in a non-potable ground water condition are in **bold**.

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Table 33

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: **BH92-324**

Page 1 of 1

Sample Date		May-03	Oct-03	Apr-04	21-Oct-04	Apr-05	20-Oct-05	Apr-06	24-Oct-06	02-May-07	09-Oct-07	06-May-08	17-Oct-08	Ontario Regulation
Laboratory I.D.	RDL*				075037 04		192658		P12411	S12833	V19183	Y52922	AV0812	153/04 Table 3
Ground Water Depth and Elevation (m)					2.57 74.91		2.41 75.08		3.19 74.30	2.86 74.63	3.34 74.14	2.63 74.85	3.31 74.17	Site Condition Standards **
Benzene	0.2				ND		ND (0.1)		ND	ND	ND	ND	ND	(12000) 1900
Toluene	0.2	Not sampled.	Not sampled.	Not sampled.	ND (0.4)	Not sampled.	ND (0.2)	Not sampled.	ND	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2				ND (0.4)		ND (0.1)		ND	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4				ND (0.5)		ND (0.1)		ND	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for a residential/parkland/institutional property use in a non-potable ground water condition are in **bold**.

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Table 34

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: BH92-325

Page 1 of 1

Sample Date		08-May-03	22-Oct-03	16-Apr-04	21-Oct-04	27-Apr-05	20-Oct-05	Apr-06	Oct-06	02-May-07	09-Oct-07	06-May-08	17-Oct-08	Ontario Regulation
Laboratory I.D.	RDL*	021291 03	062140 03	020318 04	075030 04	F81422	I92656			S12834	V19184	Y52920	AV813	153/04 Table 3
Ground Water Depth and Elevation (m)		-	2.51	2.24	2.43	2.03	3.25			3.71	4.20	-	4.15	Site Condition
		-	74.72	74.99	74.81	75.20	73.98			73.52	73.03	-	-	Standards **
Benzene	0.2	ND	ND	ND	ND	ND	ND (0.1)			ND	ND	ND	ND	(12000) 1900
Toluene	0.2	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.2)	Not sampled.	Not sampled.	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.1)			ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.1)			ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for a residential/parkland/institutional property use in a non-potable ground water condition are in **bold**.

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Table 35

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: BH92-326

Page 1 of 1

Sample Date		08-May-03	Oct-03	Apr-04	20-Oct-04	25-Apr-05	19-Oct-05	28-Apr-06	24-Oct-06	02-May-07	10-Oct-07	06-May-08	29-Oct-08	Ontario Regulation
Laboratory I.D.	RDL*	021302 03			074514 04	F75795	I89604	L80108	P12412	S12835	V19172	Y52901	AX9557	153/04 Table 3
Ground Water Depth and Elevation (m)		-			1.78	0.99	1.63	2.02	2.03	2.08	3.11	2.00	2.41	Site Condition Standards **
		-			-	-	-	-	-	-	-	-	-	
Benzene	0.2	ND			ND	ND	ND (0.1)	ND	ND	ND	ND	ND	ND	(12000) 1900
Toluene	0.2	ND (0.4)	Not sampled.	Not sampled.	ND (0.4)	ND (0.4)	ND (0.2)	ND	ND	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2	ND (0.4)			ND (0.4)	ND (0.4)	ND (0.1)	ND	ND	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4	ND (0.5)			ND (0.5)	ND (0.5)	ND (0.1)	ND	ND	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for a residential/parkland/institutional property use in a non-potable ground water condition are in **bold**.

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Table 36

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: 03-TH1

Page 1 of 1

Sample Date			22-Oct-03	16-Apr-04	21-Oct-04	25-Apr-05	18-Oct-05	28-Apr-06	24-Oct-06	02-May-07	10-Oct-07	06-May-08	20-Oct-08	Ontario Regulation
Laboratory I.D.	RDL*		062154 03	020292 04	075021 04	F75790	I86941	L80109	P12413	S12836	V19173	Y52914	AV5072	153/04 Table 3
Ground Water Depth and Elevation (m)			1.74	0.44	2.04	0.27	1.74	1.29	1.46	1.49	3.48	1.52	2.37	Site Condition Standards **
Benzene	0.2		140	ND	16	ND	1.7	ND	ND	ND	ND	ND	ND	(12000) 1900
Toluene	0.2	Monitor installed	1.1	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.2)	ND	ND	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2	30-Jul-03.	1.7	ND (0.4)	0.7	ND (0.4)	ND (0.1)	ND	ND	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4		1.5	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.1)	ND	ND	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for a residential/parkland/institutional property use in a non-potable ground water condition are in **bold**.

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Table 37

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: 03-TH2

Page 1 of 1

Sample Date			22-Oct-03	16-Apr-04	21-Oct-04	25-Apr-05	31-Oct-05	27-May-06	25-Oct-06	02-May-07	10-Oct-07	06-May-08	20-Oct-08	Ontario Regulation
Laboratory I.D.	RDL*		062151 03	020309 04	075020 04	F75792	J13595	M26155	P12414	S12837	V19174	Y52911	AV5074	153/04 Table 3
Ground Water Depth and Elevation (m)			2.09	1.27	2.20	0.61	-	2.10	2.14	2.21	3.49	1.99	2.66	Site Condition Standards **
Benzene	0.2		4.6	ND	8.8	ND	ND (0.1)	ND	ND	ND	ND	ND	ND	(12000) 1900
Toluene	0.2	Monitor installed	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.2)	ND	ND	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2	30-Jul-03.	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.1)	ND	ND	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4		ND (0.5)	ND (0.5)	1.4	ND (0.5)	ND (0.1)	ND	ND	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for a residential/parkland/institutional property use in a non-potable ground water condition are in **bold**.

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GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: 03-TH3

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Sample Date			22-Oct-03	Apr-04	21-Oct-04	25-Apr-05	18-Oct-05	28-Apr-06	25-Oct-06	02-May-07	10-Oct-07	06-May-08	20-Oct-08	Ontario Regulation
Laboratory I.D.	RDL*		062149 03		075022 04	F75793	I86940	L80110	P12415	S12838	V19175	Y52910	AV5076	153/04 Table 3
Ground Water Depth and Elevation (m)			2.04		2.14	0.91	2.1	2.22	2.29	2.37	3.50	2.18	2.80	Site Condition Standards **
			-		-	-	-	-	-	-	-	-	-	
Benzene	0.2		1300		600	117	250	24	66	44	ND	ND	11	(12000) 1900
Toluene	0.2	Monitor installed	ND (0.4)	Not sampled.	ND (0.4)	ND (0.4)	ND (5)	ND	ND	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2	30-Jul-03.	16		2.8	2.1	ND (3)	0.3	0.9	3.2	ND	ND	ND	(50000) 28000
Total Xylenes	0.4		5.6		ND (0.5)	ND (0.5)	ND (3)	ND	ND	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for a residential/parkland/institutional property use in a non-potable ground water condition are in **bold**.

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GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: 03-TH4

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Sample Date			22-Oct-03	Apr-04	20-Oct-04	27-Apr-05	18-Oct-05	01-May-06	24-Oct-06	02-May-07	10-Oct-07	06-May-08	20-Oct-08	Ontario Regulation
Laboratory I.D.	RDL*		062152 03		074520 04	F81425	I88936	L84840	P12416	S12839	V19176	Y52913	AV5078	153/04 Table 3
Ground Water Depth and Elevation (m)			1.88		1.98	0.98	1.91	2.12	2.10	2.21	3.24	2.90	2.56	Site Condition Standards **
Benzene	0.2		640		900	505	510	370	820	34	1.1	37	11	(12000) 1900
Toluene	0.2	Monitor installed	ND (0.4)	Not sampled.	ND (0.4)	ND (2)	ND (20)	ND	ND (0.4)	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2	31-Jul-03.	ND (0.4)		ND (0.4)	ND (2)	ND (10)	ND	ND (0.4)	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4		ND (0.5)		ND (0.5)	ND (2.5)	ND (10)	ND	ND (0.8)	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for a residential/parkland/institutional property use in a non-potable ground water condition are in **bold**.

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GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: 03-TH5

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Sample Date			23-Oct-03	16-Apr-04	20-Oct-04	25-Apr-05	18-Oct-05	28-Apr-06	24-Oct-06	02-May-07	10-Oct-07	07-May-08	20-Oct-08	Ontario Regulation
Laboratory I.D.	RDL*		062666 03	020296 04	074517 04	F75794	I86937	L80111	P12417	S12840	V19177	Y52989	AV5079	153/04 Table 3
Ground Water Depth and Elevation (m)			1.95	1.21	2.01	0.87	1.84	2.02	2.10	2.19	3.28	1.93	2.51	Site Condition Standards **
Benzene	0.2		ND	ND	ND	ND	ND (0.1)	ND	ND	ND	ND	ND	ND	(12000) 1900
Toluene	0.2	Monitor installed	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.2)	ND	ND	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2	31-Jul-03.	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.1)	ND	ND	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.1)	ND	ND	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for a residential/parkland/institutional property use in a non-potable ground water condition are in **bold**.

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GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: 03-TH6

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Sample Date	RDL*		23-Oct-03	16-Apr-04	20-Oct-04	25-Apr-05	18-Oct-05	28-Apr-06	24-Oct-06	02-May-07	10-Oct-07	06-May-08	23-Oct-08	Ontario Regulation
Laboratory I.D.			062665 03	020320 04	074518 04	F75806	I86933	L80112	P12418	S12841	V19178	Y52899	AW6003	153/04 Table 3
Ground Water Depth and Elevation (m)			1.35	0.82	1.52	0.62	1.35	1.69	1.69	1.87	2.81	1.67	1.97	Site Condition Standards **
Benzene	0.2		ND	ND	ND	ND	ND (0.1)	ND	ND	ND	ND	ND	ND	(12000) 1900
Toluene	0.2	Monitor installed	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.2)	ND	ND	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2	31-Jul-03.	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.1)	ND	ND	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.1)	ND	ND	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for a residential/parkland/institutional property use in a non-potable ground water condition are in **bold**.

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GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: 03-TH7

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Sample Date			Oct-03	Apr-04	20-Oct-04	25-Apr-05	18-Oct-05	28-Apr-06	24-Oct-06	02-May-07	10-Oct-07	06-May-08	23-Oct-08	Ontario Regulation
Laboratory I.D.	RDL*				074515 04	F75807	I86934	L80113	P12423	S12842	V19179	Y52898	AW6002	153/04 Table 3
Ground Water Depth and Elevation (m)					1.54	0.78	1.46	1.84	1.84	2.02	2.91	1.80	2.15	Site Condition Standards **
Benzene	0.2				ND	ND	ND (0.1)	ND	ND	ND	ND	ND	ND	(12000) 1900
Toluene	0.2	Monitor installed	Not sampled.	Not sampled.	ND (0.4)	ND (0.4)	ND (0.2)	ND	ND	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2	31-Jul-03.			ND (0.4)	ND (0.4)	ND (0.1)	ND	ND	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4				ND (0.5)	ND (0.5)	ND (0.1)	ND	ND	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for a residential/parkland/institutional property use in a non-potable ground water condition are in **bold**.

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GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: TH04-01

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Sample Date	RDL*			16-Apr-04	21-Oct-04	27-Apr-05	19-Oct-05	28-Apr-06	25-Oct-06	02-May-07	10-Oct-07	06-May-08	20-Oct-08	Ontario Regulation
Laboratory I.D.				020308 04	075023 04	F81421	I89588	L80114	P12424	S12843	V19180	Y52912	AV5080	153/04 Table 3
Ground Water Depth and Elevation (m)				0.86	1.87	1.57	1.77	1.57	1.66	1.78	3.13	1.51	2.32	Site Condition Standards **
Benzene	0.2			ND	ND	ND	ND (0.1)	ND	ND	ND	ND	ND	ND	(12000) 1900
Toluene	0.2		Monitor installed	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.2)	ND	ND	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2		08-Mar-04.	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.1)	ND	ND	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4			ND (0.5)	ND (0.5)	ND (0.5)	ND (0.1)	ND	ND	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for a residential/parkland/institutional property use in a non-potable ground water condition are in **bold**.

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GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: TH04-02

Page 1 of 1

Sample Date			16-Apr-04	21-Oct-04	27-Apr-05	31-Oct-05	28-Apr-06	25-Oct-06	02-May-07	10-Oct-07	06-May-08	23-Oct-08	Ontario Regulation
Laboratory I.D.	RDL*		020307 04	075026 04	F81421	J13594	L80115	P12425	S12844	V19181	Y52909	AW6006	153/04 Table 3
Ground Water Depth and Elevation (m)			1.36	2.60	1.56	-	2.51	2.74	2.67	3.62	2.255	3.16	Site Condition Standards **
			-	-	-	-	-	-	-	-	-	-	
Benzene	0.2		ND	1.0	ND	0.1	ND	ND	ND	ND	ND	ND	(12000) 1900
Toluene	0.2	Monitor installed 08-Mar-04.	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.2)	ND	ND	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2		ND (0.4)	ND (0.4)	ND (0.4)	ND (0.1)	ND	ND	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.1)	ND	ND	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for a residential/parkland/institutional property use in a non-potable ground water condition are in **bold**.

BARENCO INC.

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GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: A

Page 1 of 1

Sample Date		May-03	Oct-03	Apr-04	Oct-04	20-Jul-05	18-Oct-05	02-May-06	25-Oct-06	02-May-07	11-Oct-07	07-May-08	22-Oct-08	Ontario Regulation
Laboratory I.D.	RDL*					H28831	I86930	L84842	P12426	S12845	V22694	Y52990	AW2409	153/04 Table 3
Ground Water Depth and Elevation (m)						1.14	1.70	2.40	2.92	2.17	2.92	1.39	2.89	Site Condition Standards **
						-	-	-	-	-	-	-	-	
Benzene	0.2	Not sampled.	Not sampled.	Not sampled.	Not sampled.	ND	ND (0.1)	ND	ND	ND	ND	ND	ND	(12000) 1900
Toluene	0.2					ND (0.4)	ND (0.2)	ND	ND	ND	3.2	ND	49	(37000) 5900
Ethylbenzene	0.2					ND (0.4)	ND (0.1)	ND	ND	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4					ND (0.5)	ND (0.1)	ND	ND	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for a residential/parkland/institutional property use in a non-potable ground water condition are in **bold**.

BARENCO INC.

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GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: C

Page 1 of 1

Sample Date		May-03	Oct-03	Apr-04	Oct-04	20-Jul-05	19-Oct-05	01-May-06	27-Oct-06	03-May-07	12-Oct-07	07-May-08	21-Oct-08	Ontario Regulation
Laboratory I.D.	RDL*					H28832	I89598	L84843	P19237	S16075	V24876	Y53003	AV8508	153/04 Table 3
Ground Water Depth and Elevation (m)						0.91	0.40	-	-	0.39	2.15	-	1.57	Site Condition Standards **
						-	-	-	-	-	-	-	-	
Benzene	10	Not sampled.	Not sampled.	Not sampled.	Not sampled.	47000	39000	17000	16000	22000	32000	16000	950	(12000) 1900
Toluene	10					ND (40)	ND (2000)	ND	ND	ND (20)	ND (100)	ND	ND(0.4)	(37000) 5900
Ethylbenzene	10					ND (40)	ND (1000)	ND	ND	ND (20)	ND (100)	ND	ND(0.4)	(50000) 28000
Total Xylenes	20					ND (80)	ND (1000)	ND	ND	ND (40)	ND (200)	ND	ND(0.8)	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for a residential/parkland/institutional property use in a non-potable ground water condition are in **bold**.

BARENCO INC.

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GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: D1

Page 1 of 1

Sample Date		May-03	Oct-03	Apr-04	Oct-04	20-Jul-05	19-Oct-05	01-May-06	25-Oct-06	03-May-07	12-Oct-07	07-May-08	21-Oct-08	Ontario Regulation
Laboratory I.D.	RDL*					H28833	I89603	L84844	P12427	S16076	V24878	Y53004	AV8507	153/04 Table 3
Ground Water Depth and Elevation (m)						0.99	1.07	1.19	1.14	1.19	2.25	1.08	1.57	Site Condition Standards **
						-	-	-	-	-	-	-	-	
Benzene	0.2					21	2.5	ND	ND	ND	ND	ND	ND	(12000) 1900
Toluene	0.2	Not sampled.	Not sampled.	Not sampled.	Not sampled.	ND (0.4)	ND (0.2)	ND	ND	ND	0.7	ND	ND	(37000) 5900
Ethylbenzene	0.2					ND (0.4)	ND (0.1)	ND	ND	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4					ND (0.5)	ND (0.1)	ND	ND	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe, or top of pumping box (*)

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for a residential/parkland/institutional property use in a non-potable ground water condition are in **bold**.

BARENCO INC.

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GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: D2

Page 1 of 1

Sample Date		May-03	Oct-03	Apr-04	Oct-04	20-Jul-05	18-Oct-05	01-May-06	25-Oct-06	02-May-07	10-Oct-07	06-May-08	22-Oct-08	Ontario Regulation
Laboratory I.D.	RDL*					H26834	I86935	L84845	P12428	S12846	V19186	Y52929	AW2410	153/04 Table 3
Ground Water Depth and Elevation (m)						0.71	0.52	0.87	-	0.97	-	-	1.41	Site Condition Standards **
Benzene	0.2	Not sampled.	Not sampled.	Not sampled.	Not sampled.	490	62	20	ND	ND	1.7	31	0.3	(12000) 1900
Toluene	0.2					ND (2)	ND (1)	ND	ND	ND	ND	ND	ND	(37000) 5900
Ethylbenzene	0.2					ND (2)	ND (0.5)	ND	ND	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4					ND (4)	ND (0.5)	ND	ND	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for a residential/parkland/institutional property use in a non-potable ground water condition are in **bold**.

BARENCO INC.

02150

GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: E

Page 1 of 1

Sample Date		May-03	Oct-03	Apr-04	Oct-04	20-Jul-05	19-Oct-05	02-May-06	25-Oct-06	02-May-07	Oct-07	06-May-08	22-Oct-08	Ontario Regulation
Laboratory I.D.	RDL*					H28835	I89602	L84846	P12429	S12847		Y52927	AW2411	153/04 Table 3
Ground Water Depth and Elevation (m)						1.43	1.79	1.90	1.02	1.16		-	1.53	Site Condition Standards **
						-	-	-	-	-		-	-	
Benzene	0.2	Not sampled.	Not sampled.	Not sampled.	Not sampled.	1.4	ND (0.5)	ND	ND	ND	Not sampled.	ND	ND	(12000) 1900
Toluene	0.2					0.5	41	ND	ND	ND		ND	ND	(37000) 5900
Ethylbenzene	0.2					ND (0.4)	ND (0.5)	ND	ND	ND		ND	ND	(50000) 28000
Total Xylenes	0.4					ND (0.5)	ND (0.5)	ND	ND	ND		ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for a residential/parkland/institutional property use in a non-potable ground water condition are in **bold**.

BARENCO INC.

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GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: F

Page 1 of 1

Sample Date		May-03	Oct-03	Apr-04	Oct-04	20-Jul-05	19-Oct-05	02-May-06	25-Oct-06	02-May-07	10-Oct-07	06-May-08	22-Oct-08	Ontario Regulation
Laboratory I.D.	RDL*					H28836	I89602	L84847	P12430	S12848	V19187	Y52928	AW2412	153/04 Table 3
Ground Water Depth and Elevation (m)						1.21	1.9	2.15	2.70	1.69	3.00	1.15	2.60	Site Condition Standards **
Benzene	0.2	Not sampled.	Not sampled.	Not sampled.	Not sampled.	45	ND (0.5)	ND	ND	ND	ND	ND	ND	(12000) 1900
Toluene	0.2	Not sampled.	Not sampled.	Not sampled.	Not sampled.	ND (0.4)	41	ND	ND	ND	1.0	ND	ND	(37000) 5900
Ethylbenzene	0.2					ND (0.4)	ND (0.5)	ND	ND	ND	ND	ND	ND	(50000) 28000
Total Xylenes	0.4					ND (0.5)	ND (0.5)	ND	ND	ND	ND	ND	ND	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.

Exceedances of Ontario Reg. 153/04 Table 3 standards for a residential/parkland/institutional property use in a non-potable ground water condition are in **bold**.

BARENCO INC.

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GROUND WATER CHEMICAL ANALYSIS — BTEX Parameters

10 Mississauga Road, Mississauga, Ontario (South Property)

Sample Location: G

Page 1 of 1

Sample Date		May-03	Oct-03	Apr-04	Oct-04	20-Jul-05	18-Oct-05	02-May-06	25-Oct-06	02-May-07	Oct-07	07-May-08	22-Oct-08	Ontario Regulation
Laboratory I.D.	RDL*					H28837	I86946	L84848	P12431	S12849		Y52992	AW2413	153/04 Table 3
Ground Water Depth and Elevation (m)						1.53	1.66	2.40	2.42	-		2.98	2.81	Site Condition Standards **
						-	-	-	-	-		-	-	
Benzene	0.2	Not sampled.	Not sampled.	Not sampled.	Not sampled.	2.2	0.3	ND	ND	ND	Not sampled.	ND (2)	ND	(12000) 1900
Toluene	0.2					ND (0.4)	ND (0.4)	ND	ND	250		ND (2)	0.3	(37000) 5900
Ethylbenzene	0.2					ND (0.4)	ND (0.4)	ND	ND	ND		ND (2)	ND	(50000) 28000
Total Xylenes	0.4					ND (0.5)	ND (0.1)	ND	ND	ND		ND (4)	0.6	(35000) 5600

Analysis performed by Maxxam Analytics Inc.

All concentrations reported in ug/L; ND means "not detected" at the reporting detection limit (RDL).

Ground water depths were measured from top of pipe

* Reporting detection limits are as listed except as indicated in brackets.

** Standard value in brackets applies to medium and fine textured soils.


Exceedances of Ontario Reg. 153/04 Table 3 standards for a residential/parkland/institutional property use in a non-potable ground water condition are in **bold**.

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APPENDIX A

Quality Management, Control and Assurance


BARENCO

QUALITY MANAGEMENT, CONTROL AND ASSURANCE

Project Quality Management

Sampling analysis was performed using generally accepted principles and with appropriate sampling equipment. Written field and laboratory sampling procedures for ground water developed by Barenco Inc. were used to ensure consistency in sample collection and preparation of samples for submission to the laboratory. The MOE document entitled *Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario*, December 1996, was used as a reference.

The staff involved in the field sampling have participated in regular, ongoing Barenco training programs and were qualified and experienced in collecting, describing, and preparing environmental samples for laboratory analysis.

Laboratory analysis was performed using generally accepted principles in accordance with the *Protocol for Analytical Methods Used in the Assessment of Properties* under Part XV.1 of the Environmental Protection Act (Protocol).

Data quality objectives for the parameters of concern were set to meet acceptable RDLs to achieve the goal of defining areas where such parameters are present at levels in excess of applicable generic standards, as defined in Ontario Regulation 153/04 under the Environmental Protection Act. This included providing written instruction to the participating analytical laboratory describing the required analyses on the Chain of Custody prepared and delivered with the samples. The laboratory has a standing contract with Imperial Oil which sets out specific data quality requirements. Any non-compliance with this contract is documented using a data quality waiver issued by the laboratory. When a data quality waiver is issued by the laboratory, it must be reviewed, signed by Barenco, and returned to the laboratory. Data quality waivers are included with all reports, along with the complete Certificate of Analysis.

Field Quality Assurance/ Quality Control

The ground water sampling plan was prepared and executed based on the results of previous investigations, and on professional judgment at the time of the current investigation.

Field observations were made and documented in a field book in accordance with generally accepted practices and with the procedures developed and utilized by Barenco.

Barenco field sampling QA/QC protocols are tailored to the investigation and include, where appropriate:

- ☐ the collection of at least one duplicate sample per site for ground water (where three or more such samples are collected);
- ☐ where volatile organic chemical analysis is required, the collection of discrete samples directly into sample bottles with teflon-lined lids and immediate placement into a cooler with free ice to maintain the temperature at less than 10° C for transport to the laboratory;
- ☐ the use of dedicated equipment for ground water sampling at different monitors;
- ☐ where sampling for trace organics (organic chemicals with a criterion value of less than 1 ug/g and/or samples collected for determination of background trace organic concentrations), ensuring that neither the bare hand or latex glove comes into contact with the water as it is being placed into the laboratory sample container.
- ☐ the inclusion of one water trip blank and field blank per site (where three or more samples are collected) for all chemicals in ground water except pH and electrical conductivity; the bottles containing the field blank are prepared in the field during the sample collection process and returned to the laboratory for analysis; the bottles containing the trip blank are prepared by the laboratory, kept in the cooler on ice for the duration of the sampling event, and returned to the laboratory for analysis as part of the submission.
- ☐ the inclusion of one water trip spike per site for all chemicals in ground water except hydrocarbon fractions, dioxins, furans, pH, and electrical conductivity; the trip spike sample containers are maintained in the cooler on ice for the duration of the sampling event and are returned to the laboratory for analysis as part of the submission.

The results of the duplicate, field blank, trip blank, and trip spike samples are presented along with the tabulated data in the report. Tabulated data are presented to a maximum of two significant digits.

Laboratory Quality Assurance/Quality Control

All laboratory analyses were completed by Maxxam Analytics Inc., a Standards Council of Canada (SCC) accredited laboratory. Maxxam performed the work following formal written methods and procedures. These methods include all the minimum requirements as specified in the Protocol.

Barenco Inc. has accepted the data provided by Maxxam based on the assurance from Maxxam that as a minimum, the following requirements have been met and documentation to demonstrate compliance can be produced on request:

- ☐ the method performance criteria identified in the Protocol were met;
- ☐ sample storage requirements, pre-analysis processing techniques, and holding times for all sample types as identified in the Protocol were met following receipt and sign-off of the samples from Barenco staff;
- ☐ the results of all laboratory QC samples were within statistically determined control limits and if not, reasons were provided;
- ☐ surrogate recoveries (for organic analyses) were monitored and recorded;
- ☐ details on the precision and accuracy of the data have been recorded and retained and are available from the laboratory should they be required as a result of an MOE audit;
- ☐ the analytical data were reported without blank correction (unless this was clearly identified on the Certificate of Analysis);
- ☐ a Certificate of Analysis with all QA/QC sample data, including surrogate recoveries, has been received from the laboratory and is appended.

A data quality review checklist has been prepared by Barenco for each laboratory submission to ensure that data quality has been reviewed and that the effect of any anomalies has been considered. The checklist is appended with the Certificate of Analysis.

Five ground water field duplicates were collected and submitted for laboratory analysis of benzene, toluene, ethylbenzene, and xylenes (BTEX) during the October 2008 sampling event. The relative percent differences (RPDs) of the ground water field duplicate samples are provided in this attachment. All of the RPDs were either not calculable or within the alert limits for all of the parameters that were analysed. It should be noted that meaningful RPDs cannot be calculated if one or both of the analytical results are less than five times the reporting detection limits (RDLs).

One field blank water sample was submitted in the October 2008 sampling event for laboratory analysis of BTEX. The field blank was prepared in the field following standard sampling protocols. The concentrations of all of the parameters that were analysed were within five times the reporting detection limits.

One laboratory prepared trip blank water sample was submitted in the October 2008 sampling event for analysis of BTEX. The trip blank was prepared by the laboratory following standard protocols. The concentrations of all of the parameters that were analysed were within five times the reporting detection limits.

One laboratory prepared trip spike water sample was submitted in the October 2008 sampling event for analysis of BTEX. The recoveries for BTEX were 110%. All of the trip spike recoveries were within the alert limits.

Results of the field blank, trip blank, and trip spike analyses indicate that field sampling techniques, sample preservatives, sample bottles, sample transportation, or laboratory analysis of the samples contributed a negligible amount to the sample analytical results reported in the laboratory Certificates of Analysis, and to the interpretation of the result described in this report.

Ground Water Field Duplicates - Relative Percent Differences

10 Mississauga Road, Mississauga, Ontario (South Property)

October 20, 2008

Location	RDL*	BH92-311	BH92-311 (DUP-1)	RPD (%)	Alert Limit (%)
Maxxam I.D.		AV5069	AV5081		
Benzene	0.2	250	240	4	80
Toluene	0.2	nd	nd	nc	80
Ethylbenzene	0.2	0.2	0.2	nc	80
Xylenes	0.4	nd	nd	nc	80

* Reporting detection limits are as listed except as indicated in brackets.

'nd' means not detected.

'nc' means not calculable, since one (or both) of the results are <5x RDL.

Results shown are in ug/L (ppb).

Exceedances of alert limits are shown in **bold**.

BARENCO INC.

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Ground Water Field Duplicates - Relative Percent Differences

10 Mississauga Road, Mississauga, Ontario (South Property)

October 20, 2008

Location	RDL*	03-TH4	03-TH4 (DUP-4)	RPD (%)	Alert Limit (%)
Maxxam I.D.		AV5078	AV5082		
Benzene	0.2	11	12	9	80
Toluene	0.2	nd	nd	nc	80
Ethylbenzene	0.2	nd	nd	nc	80
Xylenes	0.4	nd	nd	nc	80

* Reporting detection limits are as listed except as indicated in brackets.

'nd' means not detected.

'nc' means not calculable, since one (or both) of the results are <5x RDL.

Results shown are in ug/L (ppb).

Exceedances of alert limits are shown in **bold**.

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Ground Water Field Duplicates - Relative Percent Differences

10 Mississauga Road, Mississauga, Ontario (South Property)

October 21, 2008

Location	RDL*	BH92-310	BH92-310 (DUP9)	RPD (%)	Alert Limit (%)
Maxxam I.D.		AV8502	AV8509		
Benzene	0.2	55	54	2	80
Toluene	0.2	nd	nd	nc	80
Ethylbenzene	0.2	nd	nd	nc	80
Xylenes	0.4	nd	nd	nc	80

* Reporting detection limits are as listed except as indicated in brackets.

'nd' means not detected.

'nc' means not calculable, since one (or both) of the results are <5x RDL.

Results shown are in ug/L (ppb).

Exceedances of alert limits are shown in **bold**.

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Ground Water Field Duplicates - Relative Percent Differences

10 Mississauga Road, Mississauga, Ontario (South Property)

October 22, 2008

Location	RDL*	D2	D2 (DUP 12)	RPD (%)	Alert Limit (%)
Maxxam I.D.		AW2410	AW2415		
Benzene	0.2	0.3	0.4	nc	80
Toluene	0.2	nd	nd	nc	80
Ethylbenzene	0.2	nd	nd	nc	80
Xylenes	0.4	nd	nd	nc	80

* Reporting detection limits are as listed except as indicated in brackets.

'nd' means not detected.

'nc' means not calculable, since one (or both) of the results are <5x RDL.

Results shown are in ug/L (ppb).

Exceedances of alert limits are shown in **bold**.

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GROUND WATER CHEMICAL ANALYSIS - Quality Control Samples

10 Mississauga Road, Mississauga, Ontario

Sample I.D.	RDL*	F.B. Field Blank	Field Blank Alert Limits	T. BLANK	Trip Blank Alert Limits	T. SPIKE (% recovery)	Trip Spike Alert Limits
Maxxam I.D.		AV4969		AV4970		Y52599	
Date		20-Oct-08		n/a		n/a	
Benzene	0.2	nd	1	nd	1	110	70-130%
Toluene	0.2	nd	1	nd	1	110	70-130%
Ethylbenzene	0.2	nd	1	nd	1	110	70-130%
Xylenes	0.4	nd	2	nd	2	110**	70-130%

Analysis by Maxxam Analytics Inc.

All results in ppb (ug/L). nd - "not detected" at reporting detection limit (RDL); n/a - not applicable.

* Reporting detection limits are as listed except as indicated in brackets.

** Average percent recovery.

Exceedances of alert limits are shown in **bold**.

BARENCO INC.

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APPENDIX B

Region of Peel - Sanitary Sewer Discharge Volume Notification and Sewer Use Agreement

BARENCO

BARENCO
 Environmental Engineering
 & Site Remediation Services

20
Years
 of Innovation

July 17, 2008

Region of Peel
 3515 Wolfedale Road
 Mississauga, Ontario
 L5C 1V8

Attention: Ms. Elaine Gilliland, Supervisor, Pollution Control

Dear Madam:

RE: Imperial Oil, Port Credit—2008 Q2 Sanitary Sewer Discharge Volumes
Agreement Numbers OPD-3.0 and OPG-1.0

As per the terms of the above-mentioned agreements, please note the following ground water discharge volumes to the sanitary sewer system for the period April 1, 2008 to June 30, 2008, for the purpose of discharge fee calculations.

South Property:	0.0 cubic metres
Marketing Area:	<u>0.0 cubic metres</u>
Total:	0.0 cubic metres

Discharge of ground water to the sanitary sewer system from South Property was suspended on March 5, 2003, and to date has not been restarted.

Discharge of ground water to the sanitary sewer system from Marketing Area was suspended in January 2007, and to date has not been restarted.

If you have any questions, please give me a call at 905-887-6661 extension 245.

Yours very truly,
 BARENCO INC.

Viktor Kopetsky, P.Eng.
 Environmental Engineer

copy: Zia Hasan, Imperial Oil

Professional Engineers
 Ontario



APGO
 ASSOCIATION OF PROFESSIONAL ENGINEERS OF ONTARIO

October 27, 2008

Region of Peel
3515 Wolfedale Road
Mississauga, Ontario
L5C 1V8

Attention: Ms. Elaine Gilliland, Supervisor, Pollution Control

Dear Madam:

RE: Imperial Oil, Port Credit—2008 Q3 Sanitary Sewer Discharge Volumes
Agreement Numbers OPD-3.0 and OPG-1.0

As per the terms of the above-mentioned agreements, please note the following ground water discharge volumes to the sanitary sewer system for the period July 1, 2008 to September 30, 2008, for the purpose of discharge fee calculations.

South Property:	0.0 cubic metres
Marketing Area:	<u>0.0 cubic metres</u>
Total:	0.0 cubic metres

Discharge of ground water to the sanitary sewer system from South Property was suspended on March 5, 2003, and to date has not been restarted.

Discharge of ground water to the sanitary sewer system from Marketing Area was suspended in January 2007, and to date has not been restarted.

If you have any questions, please give me a call at 905-887-6661 extension 245.

Yours very truly,
BARENCO INC.

Viktor Kopetsky, P.Eng.
Environmental Engineer

copy: Zia Hasan, Imperial Oil

Professional Engineers
Ontario



APCO
Association of Professional Engineers of Ontario

November 18, 2003

File: OPD 3.0

OPG 1.0

BARENCO INC.
2561 Stouffville Road, Suite 202
Gormley, Ont L0H 1G0

Attention: Todd Ellenor, P.Eng.

Dear Sir:

SUBJECT: Discharge of groundwater to the Sanitary Sewer

We have reviewed your request to discharge groundwater from the former ESSO Refinery (South Property) located at 10 Mississauga Road South in Mississauga and 250 Lakeshore Road West, Mississauga (Marketing Area) to the sanitary sewer. Approval is granted provided the following conditions are met:

- That the discharge meets compliance with Region of Peel By-law 90-90 as amended at all times and adhere to the following schedule:

Benzene	-	50 ug/l
Toluene	-	240 ug/l
Ethyl Benzene	-	24 ug/l
Xylenes	-	3,000 ug/l
Vinyl Chloride	-	20 ug/l
Cis 1,2 Dichloroethylene	-	700 ug/l
1,2 Dichloroethane	-	50 ug/l
Trichloroethylene	-	500 ug/l
Trans 1,2 Dichloroethylene	-	1,000 ug/l

Please note these limits are subject to change.

- That the volume discharged is forwarded to this office within two weeks of the end of each calendar quarter.
- That the discharger agrees to pay a rate of \$4.9845 per 10 m³ of discharge and any costs incurred by the Region of Peel for sampling, damages or additional maintenance resulting from the discharge. This rate is subject to change from time to time.
- That the discharge rate be so as not to cause any overloading of the sanitary sewer.

BARENCO INC.
November 18, 2003
Page 2

Please note that this approval expires at 12:01 a.m. on January 1, 2006. If you wish to renew this disposal program, you must contact this office by November 1, 2005 for staff to reassess your disposal program.

If you have any questions concerning this matter, please contact Tony Di Cristofaro at this office at (905) 791-7800, ext. 3109.

Yours truly,



**Elaine Gilliland, B.Sc.
Supervisor, Pollution Control
Environmental Control
Water and Wastewater Treatment Division**

TD/pr

ct: **Tony Di Cristofaro, Inspector, EC**

December 3, 2007
File: WP PD-03.00
WP PG-01.00

BARENCO
2561 Stouffville Road, Suite 202
Gormley, Ont L0H 1G0

Attention: Viktor Kopetsky, P. Eng.

Dear Sir:

SUBJECT: Discharge of groundwater to the Sanitary Sewer

We have reviewed your request to discharge groundwater from former ESSO Refinery (South Property) located at 10 Mississauga Road South in Mississauga and 250 Lakeshore Road West in Mississauga (Marketing Area) to the sanitary sewer. Please note that this approval will expire 12:01 a.m. on **January 1, 2009**. Approval is granted provided the following conditions are met:

- That the discharge meets compliance with Region of Peel By-law 90-90 at all times.
- That the volume discharged is forwarded to this office within two weeks of completion of the discharge.
- That the discharger agrees to pay a rate of \$5.8136 per 10 m³ of discharge and any costs incurred by the Region of Peel for sampling, damages or additional maintenance resulting from the discharge. This rate is subject to change from time to time.
- That the discharge rate be so as not to cause any overloading of the sanitary sewer.
- That the discharge not occur during or for 2 hours after a precipitation event.
- This approval may be terminated by the Region at any time if one or more of the following has occurred, is occurring or is about to occur, whether continuously or otherwise;
 - (a) the matter discharged is causing damage or about to cause damage to the sewers;
 - (b) the matter discharged is causing or about to cause detriment to the environment, health or safety of any person;
 - (c) the matter discharged is materially increasing maintenance costs to the Region;
 - (d) the matter discharged is causing or about to cause damage to or a dangerous condition in the sewage treatment process or the treatment works;
 - (e) a need exists for a program or system to be introduced or installed to prevent, reduce, or control the discharge of matter into the sewage works by way of a compliance program as set out in the by-law;
 - (f) the treatment facility or capacity is unable to meet with the volume or waste concentration of the effluent collectively discharged into the sewers by all discharges;

BARENCO
December 3, 2007
Page 2

- (g) the charges, which stipulated herein have been in default for not less than 90 days;
 - (h) the matter discharged is causing a health or safety hazard to any sewage works employee;
 - (i) the matter discharged is causing damage to the sewers, materially increasing their maintenance costs or causing a dangerous condition;
 - (j) the matter discharged is causing damage to the sewage treatment process or causing a dangerous condition in the treatment works;
 - (k) the matter discharged is causing the sludge from the sewage works, to fail to meet criteria relating to contaminants for spreading the sludge on agricultural lands under **Ontario's Guidelines for Sewage Sludge Utilization on Agricultural Lands** (as revised January 1996);
 - (l) the matter is causing the sewage works effluent to contravene any requirement by or under the **Ontario Water Resources Act, the Environmental Protection Act** (Ontario) or any other applicable law;
 - (m) the matter is causing a hazard to any person, animal, property, or vegetation;
 - (n) the matter is contrary to the by-law in any way other than as provided herein.
- This approval may be terminated by the Region at any time where there is an emergency situation of immediate threat or danger to any person, property, plant or animal life, or waters, or any conditions of approval are not met.
 - That our office be informed 72 hours prior to discharge.

If you have any questions concerning this matter, please contact Bill Ford at this office at (905) 791-7800, ext. 3108.

Yours truly,



Elaine Gilliland, B.Sc.
Supervisor, Pollution Control
Environmental Control
Wastewater Division

BF/pr

ct: Bill Ford, Inspector, EC

Environment, Transportation and Planning Services

3515 Wolfedale Rd., Mississauga, ON L5C 1V8
Tel: 905-791-7800 www.peelregion.ca

000639

APPENDIX C

Laboratory Certificates of Analysis

Attached are copies of the original Certificates of Analysis provided by the laboratory. The data contained in these analyses is to be read only in conjunction with the report to which it is attached. For interpretation of the chemical data, see the attached text.

All samples are submitted to and reported by the laboratory using purchase order numbers and sample location codes. These are only discernible to persons familiar with the purchase order system and the location codes. For descriptions of the locations of the samples, see the attached text.

Not all data contained in the original laboratory certificate of analysis may have been referenced in the report. Samples may have been submitted as travel or field blanks or as duplicates. Some samples may be for control purposes and represent soil that is no longer on the site and is not relevant to the report.

Since the laboratory data contains scientific terms and references, only trained persons familiar with sampling and laboratory methods should attempt to interpret the raw data.

B A R E N C O

Task Order#: 11050571

Site#:

Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)

Project #: 02150

Your C.O.C. #: 28013

Attention: Viktor Kopetsky

Barenco Inc

2561 Stouffville Rd

PO Box 295

Gormley, ON

L0H 1G0

Report Date: 2008/10/28

This report supersedes all previous reports with the same Maxxam job number

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: A8C2386

Received: 2008/10/20, 16:10

Sample Matrix: Water

Samples Received: 9

Analyses	Quantity	Laboratory Method	Method Primary reference
Petroleum Hydro. CCME F1 & BTEX in Water	9	CAM SOP-00315	CCME CWS

Remarks:

Maxxam Analytics has performed all analytical testing herein in accordance with ISO 17025 and the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act. All methodologies comply with this document and are validated for use in the laboratory. The methods and techniques employed in this analysis conform to the performance criteria (detection limits, accuracy and precision) as outlined in the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act.

The CWS PHC methods employed by Maxxam conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following the 'Alberta Environment Draft Addenda to the CWS-PHC, Appendix 6, Validation of Alternate Methods'. Documentation is available upon request. Maxxam has made the following improvements to the CWS-PHC reference benchmark method: (i) Headspace for F1; and, (ii) Mechanical extraction for F2-F4. Note: F4G cannot be added to the C6 to C50 hydrocarbons.

Maxxam Analytics is accredited by SCC (Lab ID 97) for all specific parameters as required by GUCSO and O'Reg 153/04. Maxxam Analytics is limited in liability to the actual cost of analysis unless otherwise agreed in writing. There is no other warranty expressed or implied. Samples will be retained at Maxxam Analytics for three weeks from receipt of data or as per contract.

All data is in statistical control and has met all QC and method performance criteria unless otherwise flagged. All samples were analysed within hold time unless otherwise flagged. All BTEX samples were methanol extracted within 24 hours unless otherwise flagged.

Task Order#: 11050571

Site#:

Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)

Project #: 02150

Your C.O.C. #: 28013

Attention: Viktor Kopetsky

Barenco Inc

2561 Stouffville Rd

PO Box 295

Gormley, ON

L0H 1G0

Report Date: 2008/10/28

CERTIFICATE OF ANALYSIS

-2-

MAXXAM JOB #: A8C2386**Received: 2008/10/20, 16:10**

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Malgosia Dancziger

28 Oct 2008 12:21:10 -04:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

MALGOSIA DANCZIGER, Project Manager

Email: Malgosia.Dancziger@maxxamanalytics.com

Phone# (905) 817-5700 Ext:5770

=====

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CALA have approved this reporting process and electronic report format.

For Service Group specific validation please refer to the Validation Signature Page

Total cover pages: 2

Page 2 of 12

Maxxam Job #: A8C2386
Report Date: 2008/10/28

Barenco Inc
Task Order#: 11050571
Site#:
Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)
Project #: 02150

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		AV0807	AV0808	AV0809		
Sampling Date		2008/10/17 10:00	2008/10/17 10:15	2008/10/17 10:30		
COC Number		28013	28013	28013		
	Units	BH90-211	BH90-217	BH90-218A	RDL	QC Batch

Benzene	ug/L	9.7	1.6	<0.2	0.2	1652087
Toluene	ug/L	0.6	0.7	<0.2	0.2	1652087
Ethylbenzene	ug/L	1.3	0.3	<0.2	0.2	1652087
o-Xylene	ug/L	0.2	0.3	<0.2	0.2	1652087
p+m-Xylene	ug/L	1.3	2.3	<0.4	0.4	1652087
Total Xylenes	ug/L	1.5	2.6	<0.4	0.4	1652087
F1 (C6-C10)	ug/L	210	110	<100	100	1652087
F1 (C6-C10) - BTEX	ug/L	190	110	<100	100	1652087
Instrument Surrogate Recovery (%)						
1,4-Difluorobenzene	%	104	103	106		1652087
4-Bromofluorobenzene	%	98	98	97		1652087
D10-Ethylbenzene	%	97	99	99		1652087
D4-1,2-Dichloroethane	%	98	96	98		1652087

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: A8C2386
Report Date: 2008/10/28

Barenco Inc
Task Order#: 11050571
Site#:
Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)
Project #: 02150

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		AV0809	AV0810	AV0811		
Sampling Date		2008/10/17 10:30	2008/10/17 10:45	2008/10/17 11:00		
COC Number		28013	28013	28013		
	Units	BH90-218A Lab-Dup	BH92-309	BH92-314	RDL	QC Batch
Benzene	ug/L	<0.2	<0.2	<0.2	0.2	1652087
Toluene	ug/L	<0.2	<0.2	<0.2	0.2	1652087
Ethylbenzene	ug/L	<0.2	<0.2	<0.2	0.2	1652087
o-Xylene	ug/L	<0.2	<0.2	<0.2	0.2	1652087
p+m-Xylene	ug/L	<0.4	<0.4	<0.4	0.4	1652087
Total Xylenes	ug/L	<0.4	<0.4	<0.4	0.4	1652087
F1 (C6-C10)	ug/L	<100	<100	<100	100	1652087
F1 (C6-C10) - BTEX	ug/L	<100	<100	<100	100	1652087
Instrument Surrogate Recovery (%)						
1,4-Difluorobenzene	%	113	104	105		1652087
4-Bromofluorobenzene	%	93	98	97		1652087
D10-Ethylbenzene	%	107	95	97		1652087
D4-1,2-Dichloroethane	%	91	99	97		1652087
RDL = Reportable Detection Limit QC Batch = Quality Control Batch						

Maxxam Job #: A8C2386
Report Date: 2008/10/28

Barenco Inc
Task Order#: 11050571
Site#:
Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)
Project #: 02150

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		AV0812	AV0813	AV0814	AV0815		
Sampling Date		2008/10/17 11:15	2008/10/17 11:30	2008/10/17 11:45	2008/10/17		
COC Number		28013	28013	28013	28013		
	Units	BH92-324	BH92-325	BH92-321	DUP2	RDL	QC Batch
Benzene	ug/L	<0.2	<0.2	<0.2	10	0.2	1652087
Toluene	ug/L	<0.2	<0.2	<0.2	0.6	0.2	1652087
Ethylbenzene	ug/L	<0.2	<0.2	<0.2	1.3	0.2	1652087
o-Xylene	ug/L	<0.2	<0.2	<0.2	0.2	0.2	1652087
p+m-Xylene	ug/L	<0.4	<0.4	<0.4	1.3	0.4	1652087
Total Xylenes	ug/L	<0.4	<0.4	<0.4	1.6	0.4	1652087
F1 (C6-C10)	ug/L	<100	<100	<100	200	100	1652087
F1 (C6-C10) - BTEX	ug/L	<100	<100	<100	190	100	1652087
Instrument Surrogate Recovery (%)							
1,4-Difluorobenzene	%	103	105	104	104		1652087
4-Bromofluorobenzene	%	98	99	98	99		1652087
D10-Ethylbenzene	%	99	97	100	97		1652087
D4-1,2-Dichloroethane	%	96	98	96	98		1652087
RDL = Reportable Detection Limit QC Batch = Quality Control Batch							



Maxxam Job #: A8C2386
Report Date: 2008/10/28

Barenco Inc
Task Order#: 11050571
Site#:
Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)
Project #: 02150

Test Summary

Maxxam ID AV0807
Sample ID BH90-211
Matrix Water
Collected 2008/10/17
Shipped 2008/10/17
Received 2008/10/20

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1652087	2008/10/23	2008/10/24	NBA

Maxxam ID AV0808
Sample ID BH90-217
Matrix Water
Collected 2008/10/17
Shipped 2008/10/17
Received 2008/10/20

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1652087	2008/10/23	2008/10/24	NBA

Maxxam ID AV0809
Sample ID BH90-218A
Matrix Water
Collected 2008/10/17
Shipped 2008/10/17
Received 2008/10/20

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1652087	2008/10/23	2008/10/24	NBA

Maxxam ID AV0809 Dup
Sample ID BH90-218A
Matrix Water
Collected 2008/10/17
Shipped 2008/10/17
Received 2008/10/20

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1652087	2008/10/23	2008/10/24	NBA

Maxxam ID AV0810
Sample ID BH92-309
Matrix Water
Collected 2008/10/17
Shipped 2008/10/17
Received 2008/10/20

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1652087	2008/10/23	2008/10/24	NBA

Maxxam ID AV0811
Sample ID BH92-314
Matrix Water
Collected 2008/10/17
Shipped 2008/10/17
Received 2008/10/20

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1652087	2008/10/23	2008/10/24	NBA

Maxxam Job #: A8C2386
Report Date: 2008/10/28

Barenco Inc
Task Order#: 11050571
Site#:
Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)
Project #: 02150

Test Summary

Maxxam ID AV0812
Sample ID BH92-324
Matrix Water

Collected 2008/10/17
Shipped 2008/10/17
Received 2008/10/20

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1652087	2008/10/23	2008/10/24	NBA

Maxxam ID AV0813
Sample ID BH92-325
Matrix Water

Collected 2008/10/17
Shipped 2008/10/17
Received 2008/10/20

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1652087	2008/10/23	2008/10/24	NBA

Maxxam ID AV0814
Sample ID BH92-321
Matrix Water

Collected 2008/10/17
Shipped 2008/10/17
Received 2008/10/20

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1652087	2008/10/23	2008/10/24	NBA

Maxxam ID AV0815
Sample ID DUP2
Matrix Water

Collected 2008/10/17
Shipped 2008/10/17
Received 2008/10/20

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1652087	2008/10/23	2008/10/24	NBA

Maxxam Job #: A8C2386
Report Date: 2008/10/28

Barenco Inc
Task Order#: 11050571
Site#:
Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)
Project #: 02150

Package 1	2.7°C
Package 2	2.0°C
Package 3	4.0°C

Each temperature is the average of up to three cooler temperatures taken at receipt

GENERAL COMMENTS

Results relate only to the items tested.

Barenco Inc
 Task Order#: 11050571
 Site#:
 Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)
 Project #: 02150

Quality Assurance Report

Maxxam Job Number: A8C2386

QA/QC Batch			Date Analyzed					
Num Init	QC Type	Parameter	yyyy/mm/dd	Value	Recovery	Units	QC Limits	
1652087	NBA	Method Blank	2008/10/24		106	%	70 - 130	
		1,4-Difluorobenzene	2008/10/24		98	%	70 - 130	
		4-Bromofluorobenzene	2008/10/24		97	%	70 - 130	
		D10-Ethylbenzene	2008/10/24		94	%	70 - 130	
		D4-1,2-Dichloroethane	2008/10/24					
		Benzene	2008/10/24	<0.2		ug/L		
		Toluene	2008/10/24	<0.2		ug/L		
		Ethylbenzene	2008/10/24	<0.2		ug/L		
		o-Xylene	2008/10/24	<0.2		ug/L		
		p+m-Xylene	2008/10/24	<0.4		ug/L		
		Total Xylenes	2008/10/24	<0.4		ug/L		
		F1 (C6-C10)	2008/10/24	<100		ug/L		
		F1 (C6-C10) - BTEX	2008/10/24	<100		ug/L		
	RPD [AV0809-01]	Benzene	2008/10/24	NC		%	40	
		Toluene	2008/10/24	NC		%	40	
		Ethylbenzene	2008/10/24	NC		%	40	
		o-Xylene	2008/10/24	NC		%	40	
		p+m-Xylene	2008/10/24	NC		%	40	
		Total Xylenes	2008/10/24	NC		%	40	
		F1 (C6-C10)	2008/10/24	NC		%	40	
		F1 (C6-C10) - BTEX	2008/10/24	NC		%	40	
	MATRIX SPIKE [AV0809-01]	1,4-Difluorobenzene	2008/10/24		105	%	70 - 130	
		4-Bromofluorobenzene	2008/10/24		96	%	70 - 130	
		D10-Ethylbenzene	2008/10/24		101	%	70 - 130	
		D4-1,2-Dichloroethane	2008/10/24		97	%	70 - 130	
		Benzene	2008/10/24		82	%	70 - 130	
		Toluene	2008/10/24		88	%	70 - 130	
		Ethylbenzene	2008/10/24		93	%	70 - 130	
		o-Xylene	2008/10/24		92	%	70 - 130	
		p+m-Xylene	2008/10/24		92	%	70 - 130	
		F1 (C6-C10)	2008/10/24		95	%	70 - 130	
	LCS	1,4-Difluorobenzene	2008/10/24		111	%	70 - 130	
		4-Bromofluorobenzene	2008/10/24		102	%	70 - 130	
		D10-Ethylbenzene	2008/10/24		101	%	70 - 130	
		D4-1,2-Dichloroethane	2008/10/24		100	%	70 - 130	
		Benzene	2008/10/24		76	%	70 - 130	
		Toluene	2008/10/24		83	%	70 - 130	
		Ethylbenzene	2008/10/24		87	%	70 - 130	
		o-Xylene	2008/10/24		87	%	70 - 130	
		p+m-Xylene	2008/10/24		87	%	70 - 130	
		F1 (C6-C10)	2008/10/24		106	%	70 - 130	

NC = Non-calculable
 RPD = Relative Percent Difference

Validation Signature Page**Maxxam Job #: A8C2386**

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



MAMDOUH SALIB, Analyst, Hydrocarbons

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CALA have approved this reporting process and electronic report format.

000651

Maxxam

6740 Campobello Road
Mississauga, ON L5N 2L8
www.maxxamanalytics.com

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Fax: (905) 817-5777
Toll Free: 1-800-569-6266
Email: info@maxxam.com

101 MAXAM CHAIN-OF-CUSTODY RECORD

Page 1 of 1
COC# 28014

COMPANY NAME: BAKEMO INC		PHONE: 905-887-1466	
COMPANY ADDRESS: 2561 STAFFORDVILLE RD GAINESVILLE ON L6H 1G0		CLIENT PROJECT ID #: 02150	
PROJECT NUMBER: 00001 NH		PROJECT NAME: WATER ROCKETRY	

FIELD NAME	LAB	MATRIX (SPECIFY)	# CONTAINERS	DATE COLLECTED	TIME	TEXT	F1	F2 - F3	DR & GREASE - TOTAL / MINERAL (SPECIFY)	VOLATILES	PCB'S	PAH'S	LEAD	ICP METALS	(CPMS METALS (REQ 100))	MERCURY	SWR / CR VI (SPECIFY)	DISSOLVABLE	IGNITABILITY	REQ 505 - INORGANIC	REQ 506 - PCB LEACHATE	REQ 508 - BTEX / VOLATILES (SPECIFY)	REQ 509 - SEMI-VOLATILES (SPECIFY)
BA90-211	AV0807	6M	4	03/10/17	10:00	XX																	
BA90-217	AV0808					XX																	
BA90-218A	AV0809					XX																	
BA92-309	AV0810					XX																	
BA92-314	AV0811					XX																	
BA92-324	AV0812					XX																	
BA92-325	AV0813					XX																	
BA92-321	AV0814					XX																	
D002	AV0815					XX																	

LAB SITE LOCATION: 10 JACOBSON RD, RICHMOND (PERRY)	REGULATORY OR OTHER DIRECTIVE TITLE: REQ 153/04 TABLE 2	SPECIAL INSTRUCTIONS: BUBBLES MAY BE PRESENT DE TO SERVING SEDIEMENT MAY BE PRESENT	ANALYST: AGC 2386
LABORATORY ORDER #: 11050571			SAMPLES ENTERED BY: MM/77
QA CONTROL: ZLA HASAN			

COLLECTED: 03150-1	ANALYST: YES	DATE ANALYST: 03/10/17	TIME: 1800
ANALYST SIGNATURE: <i>[Signature]</i>	DATE ANALYST: 03/10/17	TIME: 1800	

SO LUBRICANT	SO LUBRICANT	SO LUBRICANT	SO LUBRICANT
Standard (500g)	Standard (500g)	Standard (500g)	Standard (500g)
500g	500g	500g	500g
500g	500g	500g	500g
500g	500g	500g	500g

DATA QUALITY REVIEW CHECKLIST - IMPERIAL OIL PROJECTS

Consultant: <u>Barenco Inc.</u>		Sampling Date: <u>October 17, 2008</u>	
Location: <u>10 Mississauga Rd., Mississauga, ON</u>		Laboratory : <u>Maxxam Analytics Inc.</u>	
Consultant Project Number: <u>02150</u>		Sample Submission Number: <u>A8C2386</u>	

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery	<u>X</u>			<u>-all lab QC samples are within acceptance criteria</u>
Extraction Surrogate Recovery	<u>X</u>			
Method Blank Concentration	<u>X</u>			
Matrix Duplicate RPD	<u>X</u>			
Matrix Spike Recovery	<u>X</u>			
Lab Control Sample Recovery	<u>X</u>			

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			<u>X</u>	<u>- all field QC samples are within alert limits</u>
Trip Blank Concentration			<u>X</u>	
Field Duplicate RPD	<u>X</u>			

Has CoA been signed off (Yes/No)?: Yes

Has lab warranted all tests were in statistical control in CoA (Yes/No)?: Yes

Has lab warranted all tests were analyzed following SOP's in CoA (Yes/No)?: Yes

Were all samples analyzed within hold times (Yes/No)?: Yes

All volatiles samples methanol extracted (if required) within 48 hours (Yes/No)?: Not Required

Is Chain of Custody completed and signed (Yes/No)?: Yes

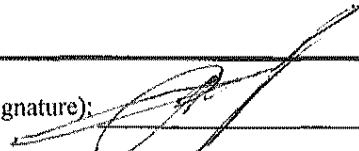
Were sample temperatures acceptable when they reached lab (Yes/No)?: Yes

Was a Data Quality Waiver (DQW) issued (Yes/No)?: No

NA Date of Response: NA

Is data considered to be reliable (Yes/No)?: Yes

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): <u>Viktor Kopetsky</u>	Data Reviewed by (Signature): 
Date: <u>November 27, 2008</u>	

Task Order#: 11050571

Site#:

Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)

Project #: 02150

Your C.O.C. #: 28022

Attention: Viktor Kopetsky

Barenco Inc

2561 Stouffville Rd

PO Box 295

Gormley, ON

L0H 1G0

Report Date: 2008/12/01

This report supersedes all previous reports with the same Maxxam job number

CERTIFICATE OF ANALYSIS**MAXXAM JOB #: A8C3199****Received: 2008/10/21, 16:35**

Sample Matrix: Water

Samples Received: 3

Analyses	Quantity	Laboratory Method	Method Primary reference
Petroleum Hydro. CCME F1 & BTEX in Water	3	CAM SOP-00315	CCME CWS

Remarks:

Maxxam Analytics has performed all analytical testing herein in accordance with ISO 17025 and the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act. All methodologies comply with this document and are validated for use in the laboratory. The methods and techniques employed in this analysis conform to the performance criteria (detection limits, accuracy and precision) as outlined in the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act.

The CWS PHC methods employed by Maxxam conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following the 'Alberta Environment Draft Addenda to the CWS-PHC, Appendix 6, Validation of Alternate Methods'. Documentation is available upon request. Maxxam has made the following improvements to the CWS-PHC reference benchmark method: (i) Headspace for F1; and, (ii) Mechanical extraction for F2-F4. Note: F4G cannot be added to the C6 to C50 hydrocarbons.

Maxxam Analytics is accredited by SCC (Lab ID 97) for all specific parameters as required by GUCSO and O'Reg 153/04. Maxxam Analytics is limited in liability to the actual cost of analysis unless otherwise agreed in writing. There is no other warranty expressed or implied. Samples will be retained at Maxxam Analytics for three weeks from receipt of data or as per contract.

All data is in statistical control and has met all QC and method performance criteria unless otherwise flagged. All samples were analysed within hold time unless otherwise flagged. All BTEX samples were methanol extracted within 24 hours unless otherwise flagged.

Task Order#: 11050571

Site#:

Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)

Project #: 02150

Your C.O.C. #: 28022

Attention: Viktor Kopetsky

Barenco Inc

2561 Stouffville Rd

PO Box 295

Gormley, ON

L0H 1G0

Report Date: 2008/12/01

This report supersedes all previous reports with the same Maxxam job number

CERTIFICATE OF ANALYSIS

-2-

MAXXAM JOB #: A8C3199**Received: 2008/10/21, 16:35**

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Malgosia Dancziger



01 Dec 2008 17:58:44 -05:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

MALGOSIA DANCZIGER, Project Manager

Email: Malgosia.Dancziger@maxxamanalytics.com

Phone# (905) 817-5700 Ext:5770

=====

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CALA have approved this reporting process and electronic report format.

For Service Group specific validation please refer to the Validation Signature Page

Total cover pages: 2

Page 2 of 8

Maxxam Job #: A8C3199
Report Date: 2008/12/01

Barenco Inc
Task Order#: 11050571
Site#:
Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)
Project #: 02150

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		AV4969	AV4970	AV4971		
Sampling Date		2008/10/20 16:30	2008/10/02	2008/09/23		
COC Number		28022	28022	28022		
	Units	F.B.	T.BLANK	T.SPIKE	RDL	QC Batch

Benzene	ug/L	<0.2	<0.2	110	0.2	1651273
Toluene	ug/L	<0.2	<0.2	110	0.2	1651273
Ethylbenzene	ug/L	<0.2	<0.2	110	0.2	1651273
o-Xylene	ug/L	<0.2	<0.2	110	0.2	1651273
p+m-Xylene	ug/L	<0.4	<0.4	110	0.4	1651273
Total Xylenes	ug/L	<0.4	<0.4		0.4	1651273
F1 (C6-C10)	ug/L	<100	<100		100	1651273
F1 (C6-C10) - BTEX	ug/L	<100	<100		100	1651273
Instrument Surrogate Recovery (%)						
1,4-Difluorobenzene	%	100	99	99		1651273
4-Bromofluorobenzene	%	101	100	101		1651273
D10-Ethylbenzene	%	106	102	104		1651273
D4-1,2-Dichloroethane	%	102	101	102		1651273

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



Maxxam Job #: A8C3199
Report Date: 2008/12/01

Barenco Inc
Task Order#: 11050571
Site#:
Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)
Project #: 02150

Test Summary

Maxxam ID AV4969
Sample ID F.B.
Matrix Water

Collected 2008/10/20
Shipped 2008/10/20
Received 2008/10/21

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1651273	2008/10/22	2008/10/23	AAI

Maxxam ID AV4970
Sample ID T.BLANK
Matrix Water

Collected 2008/09/24
Shipped 2008/10/20
Received 2008/10/21

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1651273	2008/10/22	2008/10/23	AAI

Maxxam ID AV4971
Sample ID T.SPIKE
Matrix Water

Collected 2008/09/22
Shipped 2008/10/20
Received 2008/10/21

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1651273	2008/10/22	2008/10/23	AAI

Maxxam Job #: A8C3199
Report Date: 2008/12/01

Barenco Inc
Task Order#: 11050571
Site#:
Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)
Project #: 02150

Package 1	3.7°C
-----------	-------

Each temperature is the average of up to three cooler temperatures taken at receipt

GENERAL COMMENTS

Sample AV4971-01: VOC Analysis: Trip Spike results are expressed as percent recoveries.

F1-BTEX Analysis.

Trip spike results are expressed as percentage of the spiked amounts.

Results relate only to the items tested.

Barenco Inc
 Task Order#: 11050571
 Site#:
 Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)
 Project #: 02150

Quality Assurance Report

Maxxam Job Number: A8C3199

QA/QC Batch			Date Analyzed				
Num Init	QC Type	Parameter	yyyy/mm/dd	Value	Recovery	Units	QC Limits
1651273 AAI	Method Blank	1,4-Difluorobenzene	2008/10/23		101	%	70 - 130
		4-Bromofluorobenzene	2008/10/23		100	%	70 - 130
		D10-Ethylbenzene	2008/10/23		105	%	70 - 130
		D4-1,2-Dichloroethane	2008/10/23		101	%	70 - 130
		Benzene	2008/10/23	<0.2		ug/L	
		Toluene	2008/10/23	<0.2		ug/L	
		Ethylbenzene	2008/10/23	<0.2		ug/L	
		o-Xylene	2008/10/23	<0.2		ug/L	
		p+m-Xylene	2008/10/23	<0.4		ug/L	
		Total Xylenes	2008/10/23	<0.4		ug/L	
		F1 (C6-C10)	2008/10/23	<100		ug/L	
		F1 (C6-C10) - BTEX	2008/10/23	<100		ug/L	
	LCS	1,4-Difluorobenzene	2008/10/23		100	%	70 - 130
		4-Bromofluorobenzene	2008/10/23		99	%	70 - 130
		D10-Ethylbenzene	2008/10/23		105	%	70 - 130
		D4-1,2-Dichloroethane	2008/10/23		101	%	70 - 130
		Benzene	2008/10/23		95	%	70 - 130
		Toluene	2008/10/23		97	%	70 - 130
		Ethylbenzene	2008/10/23		100	%	70 - 130
		o-Xylene	2008/10/23		100	%	70 - 130
		p+m-Xylene	2008/10/23		98	%	70 - 130
		F1 (C6-C10)	2008/10/23		86	%	70 - 130

Validation Signature Page

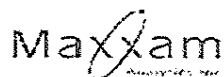
Maxxam Job #: A8C3199

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



MAMDOUH SALIB, Analyst, Hydrocarbons

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CALA have approved this reporting process and electronic report format.



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Toll Free: 1-800-563-6266
Emergency: (416) 882-8957

IOL/MAXXAM CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Col C# 28022

COMPANY NAME BARONCO INC		PHONE # 905-887-6661		FAX # 905-887-1999	
COMPANY ADDRESS 2561 STUFFVILLE RD GORMLEY, ON L0H 1G0		CLIENT PROJECT OR ID 02150			
SAMPLE NAME (PRINT) DMD, NH, HF, EP		PROJECT MANAGER VICTOR KOPETSKYY			
FIELD SAMPLE ID	MAXXAM LAB #	ANALYSIS (SPECIFY)	DATE (MM/DD/YY)	TIME	UTEX
1 F.B.	AV4969	H ₂ O	08/10/20	18:00	X X X
2 T. BLANK	AV4970	lab prep			X X X
3 T. SPIKE	AV4991	lab prep			X
4					
5					
6					
7					
8					
9					
10					
IOL SITE LOCATION 10 MISSISSAUGA ROAD, FORT CREDIT (SOUTH PRE-PPEN)		REGULATORY CRITERIA / DETECTION LIMITS REG 153/04 TABLE 2		SPECIAL INSTRUCTIONS BTX/F1 & VOC vials for trip blank & trip spike are more than 2 weeks old. Prepared by Lab & delivered 08/10/17.	
MAXXAM TASK ORDER # 11050571		MAXXAM LAB # A8C3199		SAMPLES ENTERED BY [Signature]	
IOL CONTACT ZIA HASAN					
COOLER ID CAISO-H	CUSTODY SEAL YES	COOLER ID	CUSTODY SEAL	COOLER ID	CUSTODY SEAL
TEMP 3/4/14.2	AVG	TEMP	AVG	TEMP	AVG
PRELIMINARY EX P. DORRICK	DATE (MM/DD/YY) 08/10/20	TIME 18:00	RECEIVED BY ZIA HASAN	DATE (MM/DD/YY) 08/11/20	TIME 16:33
SOLVENT		THERMOFUND TIMES			
Standard 5 days	<input checked="" type="checkbox"/>	Standard 15 days	<input type="checkbox"/>		
Run 10 days	<input type="checkbox"/>	Run 20 days	<input type="checkbox"/>		
11 days	<input type="checkbox"/>	12 days	<input type="checkbox"/>		
13 days	<input type="checkbox"/>				

ML 000-0000-1005

12/10/2017

12/10/2017

Page 8 of 8

DATA QUALITY REVIEW CHECKLIST - IMPERIAL OIL PROJECTS

Z99000

Consultant: <u>Barenco Inc.</u>		Sampling Date: <u>October 20, 2008</u>	
Location: <u>10 Mississauga Rd., Mississauga, ON</u>		Laboratory: <u>Maxxam Analytics Inc.</u>	
Consultant Project Number: <u>02150</u>		Sample Submission Number: <u>A8C3199</u>	

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery	<u>X</u>			<u>-all lab QC samples are within acceptance criteria</u>
Extraction Surrogate Recovery	<u>X</u>			
Method Blank Concentration	<u>X</u>			
Matrix Duplicate RPD			<u>X</u>	
Matrix Spike Recovery			<u>X</u>	
Lab Control Sample Recovery	<u>X</u>			

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration	<u>X</u>			<u>- all field QC samples are within alert limits</u>
Trip Blank Concentration	<u>X</u>			
Field Duplicate RPD			<u>X</u>	

Has CoA been signed off (Yes/No)?: Yes

Has lab warranted all tests were in statistical control in CoA (Yes/No)?: Yes

Has lab warranted all tests were analyzed following SOP's in CoA (Yes/No)?: Yes

Were all samples analyzed within hold times (Yes/No)?: Yes

All volatiles samples methanol extracted (if required) within 48 hours (Yes/No)?: Not Required

Is Chain of Custody completed and signed (Yes/No)?: Yes

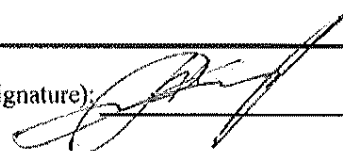
Were sample temperatures acceptable when they reached lab (Yes/No)?: Yes

Was a Data Quality Waiver (DQW) issued (Yes/No)?: No

Date Issued: NA Date of Response: NA

Is data considered to be reliable (Yes/No)?: Yes

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): <u>Viktor Kopetsky</u>	Data Reviewed by (Signature): 
Date: <u>November 27, 2008</u>	

Task Order#: 11050571

Site#:

Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)

Project #: 02150

Your C.O.C. #: 28016, 28017

Attention: Viktor Kopetsky

Barenco Inc

2561 Stouffville Rd

PO Box 295

Gormley, ON

L0H 1G0

Report Date: 2008/10/27

CERTIFICATE OF ANALYSIS**MAXXAM JOB #: A8C3220****Received: 2008/10/21, 16:35**

Sample Matrix: Water

Samples Received: 18

Analyses	Quantity	Laboratory Method	Method Primary reference
Petroleum Hydro. CCME F1 & BTEX in Water	18	CAM SOP-00315	CCME CWS

Remarks:

Maxxam Analytics has performed all analytical testing herein in accordance with ISO 17025 and the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act. All methodologies comply with this document and are validated for use in the laboratory. The methods and techniques employed in this analysis conform to the performance criteria (detection limits, accuracy and precision) as outlined in the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act.

The CWS PHC methods employed by Maxxam conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following the 'Alberta Environment Draft Addenda to the CWS-PHC, Appendix 6, Validation of Alternate Methods'. Documentation is available upon request. Maxxam has made the following improvements to the CWS-PHC reference benchmark method: (i) Headspace for F1; and, (ii) Mechanical extraction for F2-F4. Note: F4G cannot be added to the C6 to C50 hydrocarbons.

Maxxam Analytics is accredited by SCC (Lab ID 97) for all specific parameters as required by GUCSO and O'Reg 153/04. Maxxam Analytics is limited in liability to the actual cost of analysis unless otherwise agreed in writing. There is no other warranty expressed or implied. Samples will be retained at Maxxam Analytics for three weeks from receipt of data or as per contract.

All data is in statistical control and has met all QC and method performance criteria unless otherwise flagged. All samples were analysed within hold time unless otherwise flagged. All BTEX samples were methanol extracted within 24 hours unless otherwise flagged.

Task Order#: 11050571

Site#:

Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)

Project #: 02150

Your C.O.C. #: 28016, 28017

Attention: Viktor KopetskyBarenco Inc
2561 Stouffville Rd
PO Box 295
Gormley, ON
L0H 1G0

Report Date: 2008/10/27

CERTIFICATE OF ANALYSIS

-2-

MAXXAM JOB #: A8C3220

Received: 2008/10/21, 16:35

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Malgosia Danczger

27 Oct 2008 15:25:14 -04:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

MALGOSIA DANCZIGER, Project Manager

Email: Malgosia.Danczger@maxxamanalytics.com

Phone# (905) 817-5700 Ext:5770

=====

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For Service Group specific validation please refer to the Validation Signature Page

Total cover pages: 2

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Maxxam Job #: A8C3220
Report Date: 2008/10/27

Barenco Inc
Task Order#: 11050571
Site#:
Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)
Project #: 02150

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		AV5065	AV5065	AV5066		
Sampling Date		2008/10/20 09:00	2008/10/20 09:00	2008/10/20 09:30		
COC Number		28016	28016	28016		
	Units	BH90-109	BH90-109 Lab-Dup	BH90-205	RDL	QC Batch
Benzene	ug/L	<0.2	<0.2	<0.2	0.2	1651927
Toluene	ug/L	<0.2	<0.2	0.6	0.2	1651927
Ethylbenzene	ug/L	<0.2	<0.2	<0.2	0.2	1651927
o-Xylene	ug/L	<0.2	<0.2	<0.2	0.2	1651927
p+m-Xylene	ug/L	<0.4	<0.4	<0.4	0.4	1651927
Total Xylenes	ug/L	<0.4	<0.4	<0.4	0.4	1651927
F1 (C6-C10)	ug/L	<100	<100	<100	100	1651927
F1 (C6-C10) - BTEX	ug/L	<100	<100	<100	100	1651927
Instrument Surrogate Recovery (%)						
1,4-Difluorobenzene	%	105	105	105		1651927
4-Bromofluorobenzene	%	94	96	95		1651927
D10-Ethylbenzene	%	96	94	93		1651927
D4-1,2-Dichloroethane	%	96	97	96		1651927
RDL = Reportable Detection Limit QC Batch = Quality Control Batch						

Maxxam Job #: A8C3220
Report Date: 2008/10/27

Barenco Inc
Task Order#: 11050571
Site#:
Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)
Project #: 02150

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		AV5067	AV5068	AV5069		
Sampling Date		2008/10/20 10:00	2008/10/20 10:00	2008/10/20 10:30		
COC Number		28016	28016	28016		
	Units	BH90-208	BH90-209	BH92-311	RDL	QC Batch

Benzene	ug/L	64	75	250	0.2	1651927
Toluene	ug/L	<0.2	25	<0.2	0.2	1651927
Ethylbenzene	ug/L	<0.2	41	0.2	0.2	1651927
o-Xylene	ug/L	<0.2	20	<0.2	0.2	1651927
p+m-Xylene	ug/L	<0.4	180	<0.4	0.4	1651927
Total Xylenes	ug/L	<0.4	200	<0.4	0.4	1651927
F1 (C6-C10)	ug/L	<100	1200	430	100	1651927
F1 (C6-C10) - BTEX	ug/L	<100	820	180	100	1651927
Instrument Surrogate Recovery (%)						
1,4-Difluorobenzene	%	105	104	103		1651927
4-Bromofluorobenzene	%	95	97	97		1651927
D10-Ethylbenzene	%	91	92	96		1651927
D4-1,2-Dichloroethane	%	97	96	100		1651927

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: A8C3220
Report Date: 2008/10/27

Barenco Inc
Task Order#: 11050571
Site#:
Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)
Project #: 02150

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		AV5070	AV5071	AV5072		
Sampling Date		2008/10/20 10:30	2008/10/20 11:00	2008/10/20 11:00		
COC Number		28016	28016	28016		
	Units	BH90-212	BH90-216	O3-TH1	RDL	QC Batch

Benzene	ug/L	<0.2	<0.2	<0.2	0.2	1651927
Toluene	ug/L	<0.2	<0.2	<0.2	0.2	1651927
Ethylbenzene	ug/L	<0.2	<0.2	<0.2	0.2	1651927
o-Xylene	ug/L	<0.2	<0.2	<0.2	0.2	1651927
p+m-Xylene	ug/L	<0.4	<0.4	<0.4	0.4	1651927
Total Xylenes	ug/L	<0.4	<0.4	<0.4	0.4	1651927
F1 (C6-C10)	ug/L	<100	<100	<100	100	1651927
F1 (C6-C10) - BTEX	ug/L	<100	<100	<100	100	1651927
Instrument Surrogate Recovery (%)						
1,4-Difluorobenzene	%	103	104	106		1651927
4-Bromofluorobenzene	%	92	95	94		1651927
D10-Ethylbenzene	%	92	91	93		1651927
D4-1,2-Dichloroethane	%	95	96	96		1651927

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: A8C3220
Report Date: 2008/10/27

Barenco Inc
Task Order#: 11050571
Site#:
Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)
Project #: 02150

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		AV5073	AV5074	AV5075		
Sampling Date		2008/10/20 11:30	2008/10/20 11:30	2008/10/20 12:00		
COC Number		28016	28016	28017		
	Units	BH92-307	O3-TH2	BH92-312	RDL	QC Batch
Benzene	ug/L	<0.2	<0.2	<0.2	0.2	1651927
Toluene	ug/L	<0.2	<0.2	<0.2	0.2	1651927
Ethylbenzene	ug/L	<0.2	<0.2	<0.2	0.2	1651927
o-Xylene	ug/L	<0.2	<0.2	<0.2	0.2	1651927
p+m-Xylene	ug/L	<0.4	<0.4	<0.4	0.4	1651927
Total Xylenes	ug/L	<0.4	<0.4	<0.4	0.4	1651927
F1 (C6-C10)	ug/L	<100	<100	<100	100	1651927
F1 (C6-C10) - BTEX	ug/L	<100	<100	<100	100	1651927
Instrument Surrogate Recovery (%)						
1,4-Difluorobenzene	%	101	105	104		1651927
4-Bromofluorobenzene	%	93	96	95		1651927
D10-Ethylbenzene	%	91	95	94		1651927
D4-1,2-Dichloroethane	%	94	97	97		1651927
RDL = Reportable Detection Limit QC Batch = Quality Control Batch						

Maxxam Job #: A8C3220
Report Date: 2008/10/27

Barenco Inc
Task Order#: 11050571
Site#:
Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)
Project #: 02150

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		AV5076	AV5077	AV5078		
Sampling Date		2008/10/20 12:00	2008/10/20 12:30	2008/10/20 12:30		
COC Number		28017	28017	28017		
	Units	03-TH3	BH92-323	03-TH4	RDL	QC Batch
Benzene	ug/L	11	<0.2	11	0.2	1651927
Toluene	ug/L	<0.2	<0.2	<0.2	0.2	1651927
Ethylbenzene	ug/L	<0.2	<0.2	<0.2	0.2	1651927
o-Xylene	ug/L	<0.2	<0.2	<0.2	0.2	1651927
p+m-Xylene	ug/L	<0.4	<0.4	<0.4	0.4	1651927
Total Xylenes	ug/L	<0.4	<0.4	<0.4	0.4	1651927
F1 (C6-C10)	ug/L	<100	<100	<100	100	1651927
F1 (C6-C10) - BTEX	ug/L	<100	<100	<100	100	1651927
Instrument Surrogate Recovery (%)						
1,4-Difluorobenzene	%	104	105	105		1651927
4-Bromofluorobenzene	%	93	96	96		1651927
D10-Ethylbenzene	%	90	96	94		1651927
D4-1,2-Dichloroethane	%	96	99	98		1651927
RDL = Reportable Detection Limit QC Batch = Quality Control Batch						

Maxxam Job #: A8C3220
Report Date: 2008/10/27

Barenco Inc
Task Order#: 11050571
Site#:
Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)
Project #: 02150

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		AV5079	AV5080	AV5081	AV5082		
Sampling Date		2008/10/20 13:00	2008/10/20 13:30	2008/10/20	2008/10/20		
COC Number		28017	28017	28017	28017		
	Units	Q3-TH5	TH04-01	DUP-1	DUP-4	RDL	QC Batch

Benzene	ug/L	<0.2	<0.2	240	12	0.2	1651927
Toluene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	1651927
Ethylbenzene	ug/L	<0.2	<0.2	0.2	<0.2	0.2	1651927
o-Xylene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	1651927
p+m-Xylene	ug/L	<0.4	<0.4	<0.4	<0.4	0.4	1651927
Total Xylenes	ug/L	<0.4	<0.4	<0.4	<0.4	0.4	1651927
F1 (C6-C10)	ug/L	<100	<100	460	<100	100	1651927
F1 (C6-C10) - BTEX	ug/L	<100	<100	220	<100	100	1651927
Instrument Surrogate Recovery (%)							
1,4-Difluorobenzene	%	115	115	106	104		1651927
4-Bromofluorobenzene	%	92	90	99	97		1651927
D10-Ethylbenzene	%	101	101	96	94		1651927
D4-1,2-Dichloroethane	%	95	93	98	96		1651927

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



Maxxam Job #: A8C3220
Report Date: 2008/10/27

Barenco Inc
Task Order#: 11050571
Site#:
Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)
Project #: 02150

Test Summary

Maxxam ID AV5065
Sample ID BH90-109
Matrix Water

Collected 2008/10/20
Shipped 2008/10/20
Received 2008/10/21

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1651927	2008/10/23	2008/10/24	SPV

Maxxam ID AV5065 Dup
Sample ID BH90-109
Matrix Water

Collected 2008/10/20
Shipped 2008/10/20
Received 2008/10/21

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1651927	2008/10/23	2008/10/24	SPV

Maxxam ID AV5066
Sample ID BH90-205
Matrix Water

Collected 2008/10/20
Shipped 2008/10/20
Received 2008/10/21

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1651927	2008/10/23	2008/10/25	SPV

Maxxam ID AV5067
Sample ID BH90-208
Matrix Water

Collected 2008/10/20
Shipped 2008/10/20
Received 2008/10/21

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1651927	2008/10/23	2008/10/24	SPV

Maxxam ID AV5068
Sample ID BH90-209
Matrix Water

Collected 2008/10/20
Shipped 2008/10/20
Received 2008/10/21

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1651927	2008/10/23	2008/10/25	SPV

Maxxam ID AV5069
Sample ID BH92-311
Matrix Water

Collected 2008/10/20
Shipped 2008/10/20
Received 2008/10/21

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1651927	2008/10/23	2008/10/25	SPV



Maxxam Job #: A8C3220
Report Date: 2008/10/27

Barenco Inc
Task Order#: 11050571
Site#:
Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)
Project #: 02150

Test Summary

Maxxam ID AV5070
Sample ID BH90-212
Matrix Water

Collected 2008/10/20
Shipped 2008/10/20
Received 2008/10/21

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1651927	2008/10/23	2008/10/24	SPV

Maxxam ID AV5071
Sample ID BH90-216
Matrix Water

Collected 2008/10/20
Shipped 2008/10/20
Received 2008/10/21

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1651927	2008/10/23	2008/10/24	SPV

Maxxam ID AV5072
Sample ID O3-TH1
Matrix Water

Collected 2008/10/20
Shipped 2008/10/20
Received 2008/10/21

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1651927	2008/10/23	2008/10/24	SPV

Maxxam ID AV5073
Sample ID BH92-307
Matrix Water

Collected 2008/10/20
Shipped 2008/10/20
Received 2008/10/21

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1651927	2008/10/23	2008/10/24	SPV

Maxxam ID AV5074
Sample ID O3-TH2
Matrix Water

Collected 2008/10/20
Shipped 2008/10/20
Received 2008/10/21

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1651927	2008/10/23	2008/10/24	SPV

Maxxam ID AV5075
Sample ID BH92-312
Matrix Water

Collected 2008/10/20
Shipped 2008/10/20
Received 2008/10/21

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1651927	2008/10/23	2008/10/24	SPV



Maxxam Job #: A8C3220
Report Date: 2008/10/27

Barenco Inc
Task Order#: 11050571
Site#:
Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)
Project #: 02150

Test Summary

Maxxam ID AV5076
Sample ID 03-TH3
Matrix Water
Collected 2008/10/20
Shipped 2008/10/20
Received 2008/10/21

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1651927	2008/10/23	2008/10/24	SPV

Maxxam ID AV5077
Sample ID BH92-323
Matrix Water
Collected 2008/10/20
Shipped 2008/10/20
Received 2008/10/21

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1651927	2008/10/23	2008/10/24	SPV

Maxxam ID AV5078
Sample ID 03-TH4
Matrix Water
Collected 2008/10/20
Shipped 2008/10/20
Received 2008/10/21

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1651927	2008/10/23	2008/10/24	SPV

Maxxam ID AV5079
Sample ID 03-TH5
Matrix Water
Collected 2008/10/20
Shipped 2008/10/20
Received 2008/10/21

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1651927	2008/10/23	2008/10/24	SPV

Maxxam ID AV5080
Sample ID TH04-01
Matrix Water
Collected 2008/10/20
Shipped 2008/10/20
Received 2008/10/21

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1651927	2008/10/23	2008/10/24	SPV

Maxxam ID AV5081
Sample ID DUP-1
Matrix Water
Collected 2008/10/20
Shipped 2008/10/20
Received 2008/10/21

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1651927	2008/10/23	2008/10/25	SPV

Maxxam Job #: A8C3220
Report Date: 2008/10/27

Barenco Inc
Task Order#: 11050571
Site#:
Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)
Project #: 02150

Test Summary

Maxxam ID AV5082
Sample ID DUP-4
Matrix Water

Collected 2008/10/20
Shipped 2008/10/20
Received 2008/10/21

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX In Wat	HSGC/MSFD	1651927	2008/10/23	2008/10/25	SPV

Maxxam Job #: A8C3220
Report Date: 2008/10/27

Barenco Inc
Task Order#: 11050571
Site#:
Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)
Project #: 02150

Package 1	1.0°C
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Each temperature is the average of up to three cooler temperatures taken at receipt

GENERAL COMMENTS

Results relate only to the items tested.

Barenco Inc
 Task Order#: 11050571
 Site#:
 Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)
 Project #: 02150

Quality Assurance Report

Maxxam Job Number: A8C3220

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1651927 SPV	Method Blank	1,4-Difluorobenzene	2008/10/24		107	%	70 - 130
		4-Bromofluorobenzene	2008/10/24		96	%	70 - 130
		D10-Ethylbenzene	2008/10/24		95	%	70 - 130
		D4-1,2-Dichloroethane	2008/10/24		95	%	70 - 130
		Benzene	2008/10/24	<0.2		ug/L	
		Toluene	2008/10/24	<0.2		ug/L	
		Ethylbenzene	2008/10/24	<0.2		ug/L	
		o-Xylene	2008/10/24	<0.2		ug/L	
		p+m-Xylene	2008/10/24	<0.4		ug/L	
		Total Xylenes	2008/10/24	<0.4		ug/L	
		F1 (C6-C10)	2008/10/24	<100		ug/L	
		F1 (C6-C10) - BTEX	2008/10/24	<100		ug/L	
	RPD [AV5065-01]	Benzene	2008/10/24	NC		%	40
		Toluene	2008/10/24	NC		%	40
		Ethylbenzene	2008/10/24	NC		%	40
		o-Xylene	2008/10/24	NC		%	40
		p+m-Xylene	2008/10/24	NC		%	40
		Total Xylenes	2008/10/24	NC		%	40
		F1 (C6-C10)	2008/10/24	NC		%	40
		F1 (C6-C10) - BTEX	2008/10/24	NC		%	40
	MATRIX SPIKE [AV5065-01]	1,4-Difluorobenzene	2008/10/24		104	%	70 - 130
		4-Bromofluorobenzene	2008/10/24		97	%	70 - 130
		D10-Ethylbenzene	2008/10/24		92	%	70 - 130
		D4-1,2-Dichloroethane	2008/10/24		97	%	70 - 130
		Benzene	2008/10/24		75	%	70 - 130
		Toluene	2008/10/24		82	%	70 - 130
		Ethylbenzene	2008/10/24		79	%	70 - 130
		o-Xylene	2008/10/24		81	%	70 - 130
		p+m-Xylene	2008/10/24		78	%	70 - 130
		F1 (C6-C10)	2008/10/24		72	%	70 - 130
	LCS	1,4-Difluorobenzene	2008/10/24		105	%	70 - 130
		4-Bromofluorobenzene	2008/10/24		97	%	70 - 130
		D10-Ethylbenzene	2008/10/24		95	%	70 - 130
		D4-1,2-Dichloroethane	2008/10/24		93	%	70 - 130
		Benzene	2008/10/24		74	%	70 - 130
		Toluene	2008/10/24		81	%	70 - 130
		Ethylbenzene	2008/10/24		79	%	70 - 130
		o-Xylene	2008/10/24		82	%	70 - 130
		p+m-Xylene	2008/10/24		78	%	70 - 130
		F1 (C6-C10)	2008/10/24		86	%	70 - 130
NC = Non-calculable							
RPD = Relative Percent Difference							

Validation Signature Page

Maxxam Job #: A8C3220

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

M. Riskallah

MEDHAT RISKALLAH, Manager, Hydrocarbon Department

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CALA have approved this reporting process and electronic report format.

[illegible]

Maxxam

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Fax: (905) 817-5777
Toll Free: 1-800-563-6266
Emergency: (416) 882-8887

101 MAXXAM CHAIN-OF-CUSTODY RECORD

Page 2 of 2
COC# 28017

COMPANY NAME: BARONCO INC.		PHONE: 905-287-6461	
CLIENT ADDRESS: 2561 STOKESVILLE RD BRAMLEY, ON L6H 1G0		FAX: 905-887-1999	
CLIENT PROJECT ID: 02150			
SAMPLER NAME / SITE: DMD/WH/HF, EP		PROJECT MANAGER: VIKTOR KOPETSKY	

FIELD SAMPLE ID	BARONCO LPS	MATRIX (SPECIFY)	# CONTAINERS	DATE (YY/MM/DD)	TIME	DTX	FI	FI2 - FI4	OIL & GREASE - TOTAL / MINERAL (SPECIFY)	VOLATILES	PCBS	PAH'S	LEAD	ICP METALS	ICPMS METALS (REG 153)	MERCURY	SAR / OR VI (SPECIFY)	BORON HOT WATER SOLUBLE	BIODIABILITY	REG 550 - INORGANICS	REG 550 - PCB LEACHATE	REG 550 - DTX / VOLATILES (SPECIFY)	REG 550 - BODP / SEMI-VOLATILES (SPECIFY)
1 BH92-512		AUS035	4	08/10/20	1200	X	X																
2 03-TH3		AUS036	1			X	X																
3 BH92-323		AUS037	2			X	X																
4 03-TH4		AUS038	4			X	X																
5 03-TH5		AUS039	1			X	X																
6 TH04-D1		AUS039a				X	X																
7 DIP 1		AUS039a31				X	X																
8 DIP 4		AUS039				X	X																

10 SITE LOCATION: 10 MISSISSAUGA ROAD, PORT CREDIT (BRAMLEY)	REGULATORY OTHER - DETECTION LIMITS	SPECIAL INSTRUCTIONS: BUBBLES MAY BE PRESENT DUE TO DEGASSING SEDIMENT MAY BE PRESENT LIMITED SAMPLE PORT 2 OF 4	LABORATORY: A8C3220
11 ADDITIONAL NOTES: 11050871	TABLE 2		SAMPLES ENTERED BY: A8 / mmt

COOLING: CUSTOMER YES	COOLING TO: 200 °C	CUSTOMER SEAL	DOOR OPEN	DOOR SEAL	DATE: 08/10/20	TIME: 1800	RECEIVED BY: 7.11/12/21	DATE: 08/10/20	TIME: 1635
TEMP: 21/12/21	TEMP: 200 °C	NO	YES	NO	NO	NO			

ANALYSIS: 7.11/12/21	DATE: 08/10/20	TIME: 1800	RECEIVED BY: 7.11/12/21	DATE: 08/10/20	TIME: 1635
----------------------	----------------	------------	--------------------------------	----------------	------------

SEALANT: <input checked="" type="checkbox"/> SOLVENT: <input checked="" type="checkbox"/>	SEALANT: <input type="checkbox"/> SOLVENT: <input type="checkbox"/>	SEALANT: <input type="checkbox"/> SOLVENT: <input type="checkbox"/>	SEALANT: <input type="checkbox"/> SOLVENT: <input type="checkbox"/>
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DATA QUALITY REVIEW CHECKLIST - IMPERIAL OIL PROJECTS

Consultant: <u>Barenco Inc.</u>		Sampling Date: <u>October 20, 2008</u>	
Location: <u>10 Mississauga Rd., Mississauga, ON</u>		Laboratory: <u>Maxxam Analytics Inc.</u>	
Consultant Project Number: <u>02150</u>		Sample Submission Number: <u>A8C3220</u>	

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery	X			-all lab QC samples are within acceptance criteria
Extraction Surrogate Recovery	X			
Method Blank Concentration	X			
Matrix Duplicate RPD	X			
Matrix Spike Recovery	X			
Lab Control Sample Recovery	X			

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			X	- all field QC samples are within alert limits
Trip Blank Concentration			X	
Field Duplicate RPD	X			

Has CoA been signed off (Yes/No)?: Yes

Has lab warranted all tests were in statistical control in CoA (Yes/No)?: Yes

Has lab warranted all tests were analyzed following SOP's in CoA (Yes/No)?: Yes

Were all samples analyzed within hold times (Yes/No)?: Yes

All volatiles samples methanol extracted (if required) within 48 hours (Yes/No)?: Not Required

Is Chain of Custody completed and signed (Yes/No)?: Yes

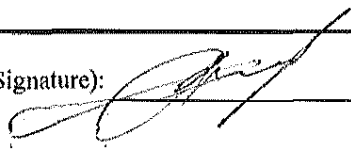
Were sample temperatures acceptable when they reached lab (Yes/No)?: Yes

Was a Data Quality Waiver (DQW) issued (Yes/No)?: No

Date Issued: NA Date of Response: NA

Is data considered to be reliable (Yes/No)?: Yes

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): <u>Viktor Kopetsky</u>	Data Reviewed by (Signature): 
Date: <u>November 27, 2008</u>	

Task Order#: 11050571

Site#:

Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)

Project #: 02150

Your C.O.C. #: 26354, 26353

Attention: Viktor Kopetsky

Barenco Inc

2561 Stouffville Rd

PO Box 295

Gormley, ON

L0H 1G0

Report Date: 2008/10/28

CERTIFICATE OF ANALYSIS**MAXXAM JOB #: A8C3843****Received: 2008/10/22, 17:00**

Sample Matrix: Water

Samples Received: 11

Analyses	Quantity	Laboratory Method	Method Primary reference
Petroleum Hydro. CCME F1 & BTEX in Water	11	CAM SOP-00315	CCME CWS

Remarks:

Maxxam Analytics has performed all analytical testing herein in accordance with ISO 17025 and the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act. All methodologies comply with this document and are validated for use in the laboratory. The methods and techniques employed in this analysis conform to the performance criteria (detection limits, accuracy and precision) as outlined in the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act.

The CWS PHC methods employed by Maxxam conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following the 'Alberta Environment Draft Addenda to the CWS-PHC, Appendix 6, Validation of Alternate Methods'. Documentation is available upon request. Maxxam has made the following improvements to the CWS-PHC reference benchmark method: (i) Headspace for F1; and, (ii) Mechanical extraction for F2-F4. Note: F4G cannot be added to the C6 to C50 hydrocarbons.

Maxxam Analytics is accredited by SCC (Lab ID 97) for all specific parameters as required by GUCSO and O'Reg 153/04. Maxxam Analytics is limited in liability to the actual cost of analysis unless otherwise agreed in writing. There is no other warranty expressed or implied. Samples will be retained at Maxxam Analytics for three weeks from receipt of data or as per contract.

All data is in statistical control and has met all QC and method performance criteria unless otherwise flagged. All samples were analysed within hold time unless otherwise flagged. All BTEX samples were methanol extracted within 24 hours unless otherwise flagged.

Task Order#: 11050571

Site#:

Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)

Project #: 02150

Your C.O.C. #: 26354, 26353

Attention: Viktor Kopetsky

Barenco Inc

2561 Stouffville Rd

PO Box 295

Gormley, ON

L0H 1G0

Report Date: 2008/10/28

CERTIFICATE OF ANALYSIS

-2-

MAXXAM JOB #: A8C3843**Received: 2008/10/22, 17:00**

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key*A. Atawala*

Akriti Atawala

28 Oct 2008 19:54:57 -04:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

MALGOSIA DANCZIGER, Project Manager

Email: Malgosia.Dancziger@maxxamanalytics.com

Phone# (905) 817-5700 Ext:5770

=====

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CALA have approved this reporting process and electronic report format.

For Service Group specific validation please refer to the Validation Signature Page

Total cover pages: 2

Page 2 of 13

Maxxam Job #: A8C3843
Report Date: 2008/10/28

Barenco Inc
Task Order#: 11050571
Site#:
Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)
Project #: 02150

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		AV8499	AV8500	AV8501		
Sampling Date		2008/10/21 13:00	2008/10/21 13:15	2008/10/21 13:30		
COC Number		26354	26354	26354		
	Units	BH92-306	BH92-305	BH90-203	RDL	QC Batch

Benzene	ug/L	<0.2	8.6	3.3	0.2	1654002
Toluene	ug/L	<0.2	19	<0.2	0.2	1654002
Ethylbenzene	ug/L	<0.2	1.9	<0.2	0.2	1654002
o-Xylene	ug/L	<0.2	1.7	<0.2	0.2	1654002
p+m-Xylene	ug/L	<0.4	5.2	<0.4	0.4	1654002
Total Xylenes	ug/L	<0.4	6.9	<0.4	0.4	1654002
F1 (C6-C10)	ug/L	<100	<100	<100	100	1654002
F1 (C6-C10) - BTEX	ug/L	<100	<100	<100	100	1654002
Instrument Surrogate Recovery (%)						
1,4-Difluorobenzene	%	100	99	98		1654002
4-Bromofluorobenzene	%	104	103	102		1654002
D10-Ethylbenzene	%	94	98	93		1654002
D4-1,2-Dichloroethane	%	109	106	106		1654002

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: A8C3843
Report Date: 2008/10/28

Barenco Inc
Task Order#: 11050571
Site#:
Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)
Project #: 02150

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		AV8502	AV8503	AV8504		
Sampling Date		2008/10/21 13:45	2008/10/21 14:00	2008/10/21 14:15		
COC Number		26354	26354	26354		
	Units	BH92-310	BH92-315	BH90-204A	RDL	QC Batch

Benzene	ug/L	55	<0.2	32	0.2	1654002
Toluene	ug/L	<0.2	<0.2	0.5	0.2	1654002
Ethylbenzene	ug/L	<0.2	<0.2	0.3	0.2	1654002
o-Xylene	ug/L	<0.2	<0.2	0.7	0.2	1654002
p+m-Xylene	ug/L	<0.4	<0.4	0.7	0.4	1654002
Total Xylenes	ug/L	<0.4	<0.4	1.5	0.4	1654002
F1 (C6-C10)	ug/L	<100	<100	<100	100	1654002
F1 (C6-C10) - BTEX	ug/L	<100	<100	<100	100	1654002
Instrument Surrogate Recovery (%)						
1,4-Difluorobenzene	%	99	97	98		1654002
4-Bromofluorobenzene	%	104	104	101		1654002
D10-Ethylbenzene	%	95	94	91		1654002
D4-1,2-Dichloroethane	%	110	106	105		1654002

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: A8C3843
Report Date: 2008/10/28

Barenco Inc
Task Order#: 11050571
Site#:
Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)
Project #: 02150

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		AV8505	AV8506	AV8507		
Sampling Date		2008/10/21	2008/10/21	2008/10/21		
		14:30	14:45	15:00		
COC Number		26354	26354	26354		
	Units	BH90-204B	BH92-316	D1	RDL	QC Batch

Benzene	ug/L	<0.2	<0.2	<0.2	0.2	1654002
Toluene	ug/L	<0.2	<0.2	<0.2	0.2	1654002
Ethylbenzene	ug/L	<0.2	<0.2	<0.2	0.2	1654002
o-Xylene	ug/L	<0.2	<0.2	<0.2	0.2	1654002
p+m-Xylene	ug/L	<0.4	<0.4	<0.4	0.4	1654002
Total Xylenes	ug/L	<0.4	<0.4	<0.4	0.4	1654002
F1 (C6-C10)	ug/L	<100	<100	<100	100	1654002
F1 (C6-C10) - BTEX	ug/L	<100	<100	<100	100	1654002
Instrument Surrogate Recovery (%)						
1,4-Difluorobenzene	%	100	98	99		1654002
4-Bromofluorobenzene	%	105	101	103		1654002
D10-Ethylbenzene	%	88	95	96		1654002
D4-1,2-Dichloroethane	%	108	104	108		1654002

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: A8C3843
Report Date: 2008/10/28

Barenco Inc
Task Order#: 11050571
Site#:
Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)
Project #: 02150

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		AV8508		AV8509		
Sampling Date		2008/10/21 15:30		2008/10/21		
COC Number		26354		26353		
	Units	C	RDL	DUP9	RDL	QC Batch

Benzene	ug/L	950	0.4	54	0.2	1654002
Toluene	ug/L	<0.4	0.4	<0.2	0.2	1654002
Ethylbenzene	ug/L	<0.4	0.4	<0.2	0.2	1654002
o-Xylene	ug/L	<0.4	0.4	<0.2	0.2	1654002
p+m-Xylene	ug/L	<0.8	0.8	<0.4	0.4	1654002
Total Xylenes	ug/L	<0.8	0.8	<0.4	0.4	1654002
F1 (C6-C10)	ug/L	990	200	<100	100	1654002
F1 (C6-C10) - BTEX	ug/L	<200	200	<100	100	1654002
Instrument Surrogate Recovery (%)						
1,4-Difluorobenzene	%	97		100		1654002
4-Bromofluorobenzene	%	104		103		1654002
D10-Ethylbenzene	%	96		98		1654002
D4-1,2-Dichloroethane	%	102		105		1654002

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



Maxxam Job #: A8C3843
Report Date: 2008/10/28

Barenco Inc
Task Order#: 11050571
Site#:
Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)
Project #: 02150

Test Summary

Maxxam ID AV8499
Sample ID BH92-306
Matrix Water

Collected 2008/10/21
Shipped 2008/10/21
Received 2008/10/22

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1654002	2008/10/25	2008/10/27	DCA

Maxxam ID AV8500
Sample ID BH92-305
Matrix Water

Collected 2008/10/21
Shipped 2008/10/21
Received 2008/10/22

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1654002	2008/10/25	2008/10/27	DCA

Maxxam ID AV8501
Sample ID BH90-203
Matrix Water

Collected 2008/10/21
Shipped 2008/10/21
Received 2008/10/22

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1654002	2008/10/25	2008/10/27	DCA

Maxxam ID AV8502
Sample ID BH92-310
Matrix Water

Collected 2008/10/21
Shipped 2008/10/21
Received 2008/10/22

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1654002	2008/10/25	2008/10/27	DCA

Maxxam ID AV8503
Sample ID BH92-315
Matrix Water

Collected 2008/10/21
Shipped 2008/10/21
Received 2008/10/22

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1654002	2008/10/25	2008/10/27	DCA

Maxxam ID AV8504
Sample ID BH90-204A
Matrix Water

Collected 2008/10/21
Shipped 2008/10/21
Received 2008/10/22

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1654002	2008/10/25	2008/10/27	DCA



Maxxam Job #: A8C3843
Report Date: 2008/10/28

Barenco Inc
Task Order#: 11050571
Site#:
Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)
Project #: 02150

Test Summary

Maxxam ID AV8505
Sample ID BH90-204B
Matrix Water
Collected 2008/10/21
Shipped 2008/10/21
Received 2008/10/22

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1654002	2008/10/25	2008/10/27	DCA

Maxxam ID AV8506
Sample ID BH92-316
Matrix Water
Collected 2008/10/21
Shipped 2008/10/21
Received 2008/10/22

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1654002	2008/10/25	2008/10/27	DCA

Maxxam ID AV8507
Sample ID D1
Matrix Water
Collected 2008/10/21
Shipped 2008/10/21
Received 2008/10/22

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1654002	2008/10/25	2008/10/27	DCA

Maxxam ID AV8508
Sample ID C
Matrix Water
Collected 2008/10/21
Shipped 2008/10/21
Received 2008/10/22

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1654002	2008/10/25	2008/10/27	DCA

Maxxam ID AV8509
Sample ID DUP9
Matrix Water
Collected 2008/10/21
Shipped 2008/10/21
Received 2008/10/22

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1654002	2008/10/25	2008/10/27	DCA

Maxxam Job #: A8C3843
Report Date: 2008/10/28

Barenco Inc
Task Order#: 11050571
Site#:
Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)
Project #: 02150

Package 1	1.0°C
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Each temperature is the average of up to three cooler temperatures taken at receipt

GENERAL COMMENTS

Sample AV8508-01: F1-BTEX Analysis: Due to high concentration of target analytes, sample required dilution. Reporting limits adjusted accordingly.

Results relate only to the items tested.

Barenco Inc
 Task Order#: 11050571
 Site#:
 Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)
 Project #: 02150

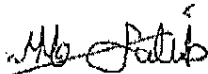
Quality Assurance Report

Maxxam Job Number: A8C3843

QA/QC Batch			Date Analyzed					
Num Init	QC Type	Parameter	yyyy/mm/dd	Value	Recovery	Units	QC Limits	
1654002	DCA	Method Blank	2008/10/26		103	%	70 - 130	
		1,4-Difluorobenzene	2008/10/26		102	%	70 - 130	
		4-Bromofluorobenzene	2008/10/26		99	%	70 - 130	
		D10-Ethylbenzene	2008/10/26		103	%	70 - 130	
		D4-1,2-Dichloroethane	2008/10/26					
		Benzene	2008/10/26	<0.2		ug/L		
		Toluene	2008/10/26	<0.2		ug/L		
		Ethylbenzene	2008/10/26	<0.2		ug/L		
		o-Xylene	2008/10/26	<0.2		ug/L		
		p+m-Xylene	2008/10/26	<0.4		ug/L		
		Total Xylenes	2008/10/26	<0.4		ug/L		
		F1 (C6-C10)	2008/10/26	<100		ug/L		
		F1 (C6-C10) - BTEX	2008/10/26	<100		ug/L		
	LCS	1,4-Difluorobenzene	2008/10/26		106	%	70 - 130	
		4-Bromofluorobenzene	2008/10/26		104	%	70 - 130	
		D10-Ethylbenzene	2008/10/26		96	%	70 - 130	
		D4-1,2-Dichloroethane	2008/10/26		106	%	70 - 130	
		Benzene	2008/10/26		84	%	70 - 130	
		Toluene	2008/10/26		82	%	70 - 130	
		Ethylbenzene	2008/10/26		90	%	70 - 130	
		o-Xylene	2008/10/26		93	%	70 - 130	
		p+m-Xylene	2008/10/26		89	%	70 - 130	
		F1 (C6-C10)	2008/10/26		93	%	70 - 130	

Validation Signature Page**Maxxam Job #: A8C3843**

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



MAMDOUH SALIB, Analyst, Hydrocarbons

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CALA have approved this reporting process and electronic report format.

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10LMAXXAM CHAIN-OF-CUSTODY RECORD

Page 2 of 2

C d C H 26353

[illegible]

DATA QUALITY REVIEW CHECKLIST - IMPERIAL OIL PROJECTS

Consultant: <u>Barenco Inc.</u>		Sampling Date: <u>October 21, 2008</u>	
Location: <u>10 Mississauga Rd., Mississauga, ON</u>		Laboratory: <u>Maxxam Analytics Inc.</u>	
Consultant Project Number: <u>02150</u>		Sample Submission Number: <u>A8C3843</u>	

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery	X			-all lab QC samples are within acceptance criteria
Extraction Surrogate Recovery	X			
Method Blank Concentration	X			
Matrix Duplicate RPD			X	
Matrix Spike Recovery			X	
Lab Control Sample Recovery	X			

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			X	- all field QC samples are within alert limits
Trip Blank Concentration			X	
Field Duplicate RPD	X			

Has CoA been signed off (Yes/No)?:

Has lab warranted all tests were in statistical control in CoA (Yes/No)?:

Has lab warranted all tests were analyzed following SOP's in CoA (Yes/No)?:

Were all samples analyzed within hold times (Yes/No)?:

All volatiles samples methanol extracted (if required) within 48 hours (Yes/No)?:

Is Chain of Custody completed and signed (Yes/No)?:

Were sample temperatures acceptable when they reached lab (Yes/No)?:

	<u>Yes</u>
	<u>Yes</u>
	<u>Yes</u>
	<u>Yes</u>
	<u>Not Required</u>
	<u>Yes</u>
	<u>Yes</u>

Was a Data Quality Waiver (DQW) issued (Yes/No)?:

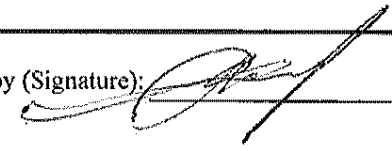
No

Date Issued: NA Date of Response: NA

Is data considered to be reliable (Yes/No)?:

If answer is "No", describe and provide rationale:

Yes

Data Reviewed by (Print): <u>Viktor Kopetsky</u>	Data Reviewed by (Signature): 
Date: <u>November 27, 2008</u>	

Task Order#: 11050571

Site#:

Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)

Project #: 02150

Your C.O.C. #: 28019

Attention: Viktor Kopetsky

Barenco Inc

2561 Stouffville Rd

PO Box 295

Gormley, ON

L0H 1G0

Report Date: 2008/10/30

CERTIFICATE OF ANALYSIS**MAXXAM JOB #: A8C4522****Received: 2008/10/23, 16:45**

Sample Matrix: Water

Samples Received: 7

Analyses	Quantity	Laboratory Method	Method Primary reference
Petroleum Hydro. CCME F1 & BTEX in Water	7	CAM SOP-00315	CCME CWS

Remarks:

Maxxam Analytics has performed all analytical testing herein in accordance with ISO 17025 and the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act. All methodologies comply with this document and are validated for use in the laboratory. The methods and techniques employed in this analysis conform to the performance criteria (detection limits, accuracy and precision) as outlined in the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act.

The CWS PHC methods employed by Maxxam conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following the 'Alberta Environment Draft Addenda to the CWS-PHC, Appendix 6, Validation of Alternate Methods'. Documentation is available upon request. Maxxam has made the following improvements to the CWS-PHC reference benchmark method: (i) Headspace for F1; and, (ii) Mechanical extraction for F2-F4. Note: F4G cannot be added to the C6 to C50 hydrocarbons.

Maxxam Analytics is accredited by SCC (Lab ID 97) for all specific parameters as required by GUCSO and O'Reg 153/04. Maxxam Analytics is limited in liability to the actual cost of analysis unless otherwise agreed in writing. There is no other warranty expressed or implied. Samples will be retained at Maxxam Analytics for three weeks from receipt of data or as per contract.

All data is in statistical control and has met all QC and method performance criteria unless otherwise flagged. All samples were analysed within hold time unless otherwise flagged. All BTEX samples were methanol extracted within 24 hours unless otherwise flagged.

Task Order#: 11050571

Site#:

Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)

Project #: 02150

Your C.O.C. #: 28019

Attention: Viktor Kopetsky

Barenco Inc

2561 Stouffville Rd

PO Box 295

Gormley, ON

L0H 1G0

Report Date: 2008/10/30

CERTIFICATE OF ANALYSIS

-2-

MAXXAM JOB #: A8C4522**Received: 2008/10/23, 16:45**

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Akruhi Atawala

30 Oct 2008 21:33:04 -04:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

MALGOSIA DANCZIGER, Project Manager

Email: Malgosia.Dancziger@maxxamanalytics.com

Phone# (905) 817-5700 Ext:5770

=====

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CALA have approved this reporting process and electronic report format.

For Service Group specific validation please refer to the Validation Signature Page

Total cover pages: 2

Page 2 of 11

Maxxam Job #: A8C4522
Report Date: 2008/10/30

Barenco Inc
Task Order#: 11050571
Site#:
Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)
Project #: 02150

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		AW2409	AW2410	AW2411		
Sampling Date		2008/10/22 12:00	2008/10/22 12:15	2008/10/22 12:30		
COC Number		28019	28019	28019		
	Units	A	D2	E	RDL	QC Batch
Benzene	ug/L	<0.2	0.3	<0.2	0.2	1654764
Toluene	ug/L	49	<0.2	<0.2	0.2	1654764
Ethylbenzene	ug/L	<0.2	<0.2	<0.2	0.2	1654764
o-Xylene	ug/L	<0.2	<0.2	<0.2	0.2	1654764
p+m-Xylene	ug/L	<0.4	<0.4	<0.4	0.4	1654764
Total Xylenes	ug/L	<0.4	<0.4	<0.4	0.4	1654764
F1 (C6-C10)	ug/L	<100	<100	<100	100	1654764
F1 (C6-C10) - BTEX	ug/L	<100	<100	<100	100	1654764
Instrument Surrogate Recovery (%)						
1,4-Difluorobenzene	%	100	99	96		1654764
4-Bromofluorobenzene	%	100	99	101		1654764
D10-Ethylbenzene	%	104	100	91		1654764
D4-1,2-Dichloroethane	%	100	99	100		1654764
RDL = Reportable Detection Limit QC Batch = Quality Control Batch						

Maxxam Job #: A8C4522
Report Date: 2008/10/30

Barenco Inc
Task Order#: 11050571
Site#:
Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)
Project #: 02150

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		AW2412	AW2413	AW2414		
Sampling Date		2008/10/22 12:45	2008/10/22 13:00	2008/10/22 13:15		
COC Number		28019	28019	28019		
	Units	F	G	BH 90-210	RDL	QC Batch

Benzene	ug/L	<0.2	<0.2	<0.2	0.2	1654764
Toluene	ug/L	<0.2	0.3	<0.2	0.2	1654764
Ethylbenzene	ug/L	<0.2	<0.2	<0.2	0.2	1654764
o-Xylene	ug/L	<0.2	<0.2	<0.2	0.2	1654764
p+m-Xylene	ug/L	<0.4	0.6	<0.4	0.4	1654764
Total Xylenes	ug/L	<0.4	0.6	<0.4	0.4	1654764
F1 (C6-C10)	ug/L	<100	<100	<100	100	1654764
F1 (C6-C10) - BTEX	ug/L	<100	<100	<100	100	1654764
Instrument Surrogate Recovery (%)						
1,4-Difluorobenzene	%	99	100	98		1654764
4-Bromofluorobenzene	%	99	101	100		1654764
D10-Ethylbenzene	%	102	101	101		1654764
D4-1,2-Dichloroethane	%	101	99	102		1654764

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: A8C4522
Report Date: 2008/10/30

Barenco Inc
Task Order#: 11050571
Site#:
Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)
Project #: 02150

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		AW2415		
Sampling Date		2008/10/22		
COC Number		28019		
	Units	DUP 12	RDL	QC Batch

Benzene	ug/L	0.4	0.2	1654844
Toluene	ug/L	<0.2	0.2	1654844
Ethylbenzene	ug/L	<0.2	0.2	1654844
o-Xylene	ug/L	<0.2	0.2	1654844
p+m-Xylene	ug/L	<0.4	0.4	1654844
Total Xylenes	ug/L	<0.4	0.4	1654844
F1 (C6-C10)	ug/L	<100	100	1654844
F1 (C6-C10) - BTEX	ug/L	<100	100	1654844
Instrument Surrogate Recovery (%)				
1,4-Difluorobenzene	%	102		1654844
4-Bromofluorobenzene	%	100		1654844
D10-Ethylbenzene	%	103		1654844
D4-1,2-Dichloroethane	%	104		1654844

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: A8C4522
Report Date: 2008/10/30

Barenco Inc
Task Order#: 11050571
Site#:
Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)
Project #: 02150

Test Summary

Maxxam ID AW2409
Sample ID A
Matrix Water
Collected 2008/10/22
Shipped 2008/10/22
Received 2008/10/23

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1654764	2008/10/27	2008/10/28	AAI

Maxxam ID AW2410
Sample ID D2
Matrix Water
Collected 2008/10/22
Shipped 2008/10/22
Received 2008/10/23

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1654764	2008/10/27	2008/10/28	AAI

Maxxam ID AW2411
Sample ID E
Matrix Water
Collected 2008/10/22
Shipped 2008/10/22
Received 2008/10/23

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1654764	2008/10/27	2008/10/28	AAI

Maxxam ID AW2412
Sample ID F
Matrix Water
Collected 2008/10/22
Shipped 2008/10/22
Received 2008/10/23

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1654764	2008/10/27	2008/10/28	AAI

Maxxam ID AW2413
Sample ID G
Matrix Water
Collected 2008/10/22
Shipped 2008/10/22
Received 2008/10/23

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1654764	2008/10/27	2008/10/28	AAI

Maxxam ID AW2414
Sample ID BH 90-210
Matrix Water
Collected 2008/10/22
Shipped 2008/10/22
Received 2008/10/23

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1654764	2008/10/27	2008/10/28	AAI

Maxxam Job #: A8C4522
Report Date: 2008/10/30

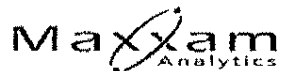
Barenco Inc
Task Order#: 11050571
Site#:
Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)
Project #: 02150

Test Summary

Maxxam ID AW2415
Sample ID DUP 12
Matrix Water

Collected 2008/10/22
Shipped 2008/10/22
Received 2008/10/23

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1654844	2008/10/27	2008/10/28	GBA



Maxxam Job #: A8C4522
Report Date: 2008/10/30

Barenco Inc
Task Order#: 11050571
Site#:
Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)
Project #: 02150

Package 1	4.0°C
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Each temperature is the average of up to three cooler temperatures taken at receipt

GENERAL COMMENTS

Results relate only to the items tested.

Barenco Inc
 Task Order#: 11050571
 Site#:
 Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)
 Project #: 02150

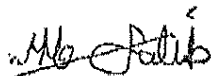
Quality Assurance Report

Maxxam Job Number: A8C4522

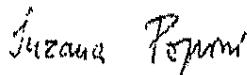
QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1654764 AAI	Method Blank	1,4-Difluorobenzene	2008/10/28		94	%	70 - 130
		4-Bromofluorobenzene	2008/10/28		104	%	70 - 130
		D10-Ethylbenzene	2008/10/28		116	%	70 - 130
		D4-1,2-Dichloroethane	2008/10/28		99	%	70 - 130
		Benzene	2008/10/28	<0.2		ug/L	
		Toluene	2008/10/28	<0.2		ug/L	
		Ethylbenzene	2008/10/28	<0.2		ug/L	
		o-Xylene	2008/10/28	<0.2		ug/L	
		p+m-Xylene	2008/10/28	<0.4		ug/L	
		Total Xylenes	2008/10/28	<0.4		ug/L	
		F1 (C6-C10)	2008/10/28	<100		ug/L	
		F1 (C6-C10) - BTEX	2008/10/28	<100		ug/L	
1654844 GBA	Method Blank	1,4-Difluorobenzene	2008/10/27		101	%	70 - 130
		4-Bromofluorobenzene	2008/10/27		98	%	70 - 130
		D10-Ethylbenzene	2008/10/27		107	%	70 - 130
		D4-1,2-Dichloroethane	2008/10/27		101	%	70 - 130
		Benzene	2008/10/27	<0.2		ug/L	
		Toluene	2008/10/27	<0.2		ug/L	
		Ethylbenzene	2008/10/27	<0.2		ug/L	
		o-Xylene	2008/10/27	<0.2		ug/L	
		p+m-Xylene	2008/10/27	<0.4		ug/L	
		Total Xylenes	2008/10/27	<0.4		ug/L	
		F1 (C6-C10)	2008/10/27	<100		ug/L	
		F1 (C6-C10) - BTEX	2008/10/27	<100		ug/L	
1654764 AAI	LCS	1,4-Difluorobenzene	2008/10/28		99	%	70 - 130
		4-Bromofluorobenzene	2008/10/28		99	%	70 - 130
		D10-Ethylbenzene	2008/10/28		102	%	70 - 130
		D4-1,2-Dichloroethane	2008/10/28		85	%	70 - 130
		Benzene	2008/10/28		90	%	70 - 130
		Toluene	2008/10/28		94	%	70 - 130
		Ethylbenzene	2008/10/28		97	%	70 - 130
		o-Xylene	2008/10/28		96	%	70 - 130
		p+m-Xylene	2008/10/28		94	%	70 - 130
		F1 (C6-C10)	2008/10/28		80	%	70 - 130
1654844 GBA	LCS	1,4-Difluorobenzene	2008/10/27		102	%	70 - 130
		4-Bromofluorobenzene	2008/10/27		99	%	70 - 130
		D10-Ethylbenzene	2008/10/27		109	%	70 - 130
		D4-1,2-Dichloroethane	2008/10/27		104	%	70 - 130
		Benzene	2008/10/27		96	%	70 - 130
		Toluene	2008/10/27		100	%	70 - 130
		Ethylbenzene	2008/10/27		101	%	70 - 130
		o-Xylene	2008/10/27		100	%	70 - 130
		p+m-Xylene	2008/10/27		101	%	70 - 130
		F1 (C6-C10)	2008/10/27		105	%	70 - 130

Validation Signature Page**Maxxam Job #: A8C4522**

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



MAMDOUH SALIB, Analyst, Hydrocarbons



SUZANA POPOVIC, Supervisor, Hydrocarbons

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CALA have approved this reporting process and electronic report format.



5740 Campbell Road
Mississauga, ON L5N 2L8
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Phone: (905) 817-5700
Fax: (905) 817-5777
Toll Free: 1-800-563-6266
Emergency: (416) 892-8967

101 MAXAM CHAIN-OF-CUSTODY RECORD

Page 1 of 1
C of C# 28019

COMPANY NAME

BRANCO INC

PH # 905-887-8004

CLIENT ADDRESS

2561 STANFORD RD
GOUDRIC, ON L0H 1S0

CLIENT PROJECT ID #

02150

SAMPLE NAME (PMTL)

DUG, NH, HF, ED

PROJECT MANAGER

VICTOR KOSTICANY

FIELD SAMPLE ID

A

D2

E

E

G

BH 90-210

DUP 12

LABORATORY

LAB

MATRIX (SPECIFY)

CONTAINERS

DATE

TIME

BLX

F1

F2 - F3

OIL & GREASE - TOTAL / MINERAL (SPECIFY)

VOLATILES

PCB'S

PAT'S

LEAD

ICP METALS

ICPMS METALS (REQ 153)

MERCURY

SAR / CR VI (SPECIFY)

BORON HOT WATER SOLUBLE

IGNITABILITY

REQ 559 - INORGANICS

REQ 559 - PCB LEACHATE

REQ 559 - BLX / VOLATILES (SPECIFY)

REQ 559 - GLOP / SEMI-VOLATILES (SPECIFY)

LIMITED SAMPLE

CL SITE LOCATION

12 MISSISSAUGA ROAD (PMTL) (CUSTODY)

WATER TANK (PMTL) 1050571

CL CONTACT: ZIA HASAN

COULDED CUSTODY SEAL YES

TEMP C 2150 K

RECEIVED BY DATE/TIME

RECEIVED BY DATE/TIME

RECEIVED BY DATE/TIME

RECEIVED BY DATE/TIME

REGULATORY OR OTHER DETECTION LIMITS

SPECIAL INSTRUCTIONS

RECEIVED BY DATE/TIME

RECEIVED BY DATE/TIME

RECEIVED BY DATE/TIME

RECEIVED BY DATE/TIME

RECEIVED BY DATE/TIME

RECEIVED BY DATE/TIME

RECEIVED BY DATE/TIME

RECEIVED BY DATE/TIME

RECEIVED BY DATE/TIME

MAXIMUMS

A 804522

SAMPLES ENTERED BY

MS/PC

TERMINAL TIMES

AIR - SOLID CONTAINERS

TERMINAL TIMES

TERMINAL TIMES

TERMINAL TIMES

TERMINAL TIMES

TERMINAL TIMES

TERMINAL TIMES

DATA QUALITY REVIEW CHECKLIST - IMPERIAL OIL PROJECTS

907000

Consultant: <u>Barenco Inc.</u>		Sampling Date: <u>October 22, 2008</u>	
Location: <u>10 Mississauga Rd., Mississauga, ON</u>		Laboratory : <u>Maxxam Analytics Inc.</u>	
Consultant Project Number: <u>02150</u>		Sample Submission Number: <u>A8C4522</u>	

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery	<i>X</i>			<i>-all lab QC samples are within acceptance criteria</i>
Extraction Surrogate Recovery	<i>X</i>			
Method Blank Concentration	<i>X</i>			
Matrix Duplicate RPD			<i>X</i>	
Matrix Spike Recovery			<i>X</i>	
Lab Control Sample Recovery	<i>X</i>			

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			<i>X</i>	<i>- all field QC samples are within alert limits</i>
Trip Blank Concentration			<i>X</i>	
Field Duplicate RPD	<i>X</i>			

Has CoA been signed off (Yes/No)?:

Has lab warranted all tests were in statistical control in CoA (Yes/No)?:

Has lab warranted all tests were analyzed following SOP's in CoA (Yes/No)?:

Were all samples analyzed within hold times (Yes/No)?:

All volatiles samples methanol extracted (if required) within 48 hours (Yes/No)?:

Is Chain of Custody completed and signed (Yes/No)?:

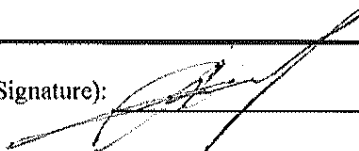
Were sample temperatures acceptable when they reached lab (Yes/No)?:

Was a Data Quality Waiver (DQW) issued (Yes/No)?:

Date Issued: NA Date of Response: NA

Is data considered to be reliable (Yes/No)?:

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): <u>Viktor Kopetsky</u>	Data Reviewed by (Signature): 
Date: <u>November 27, 2008</u>	

Task Order#: 11050571

Site#:

Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)

Project #: 02150

Your C.O.C. #: 28011

Attention: Viktor Kopetsky

Barenco Inc
2561 Stouffville Rd
PO Box 295
Gormley, ON
L0H 1G0

Report Date: 2008/10/31

CERTIFICATE OF ANALYSIS**MAXXAM JOB #: A8C5287****Received: 2008/10/24, 16:35**

Sample Matrix: Water

Samples Received: 9

Analyses	Quantity	Laboratory Method	Method Primary reference
Petroleum Hydro. CCME F1 & BTEX In Water	9	CAM SOP-00315	CCME CWS

Remarks:

Maxxam Analytics has performed all analytical testing herein in accordance with ISO 17025 and the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act. All methodologies comply with this document and are validated for use in the laboratory. The methods and techniques employed in this analysis conform to the performance criteria (detection limits, accuracy and precision) as outlined in the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act.

The CWS PHC methods employed by Maxxam conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following the 'Alberta Environment Draft Addenda to the CWS-PHC, Appendix 6, Validation of Alternate Methods'. Documentation is available upon request. Maxxam has made the following improvements to the CWS-PHC reference benchmark method: (i) Headspace for F1; and, (ii) Mechanical extraction for F2-F4. Note: F4G cannot be added to the C6 to C50 hydrocarbons.

Maxxam Analytics is accredited by SCC (Lab ID 97) for all specific parameters as required by GUCSO and O'Reg 153/04. Maxxam Analytics is limited in liability to the actual cost of analysis unless otherwise agreed in writing. There is no other warranty expressed or implied. Samples will be retained at Maxxam Analytics for three weeks from receipt of data or as per contract.

All data is in statistical control and has met all QC and method performance criteria unless otherwise flagged. All samples were analysed within hold time unless otherwise flagged. All BTEX samples were methanol extracted within 24 hours unless otherwise flagged.

Task Order#: 11050571

Site#:

Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)

Project #: 02150

Your C.O.C. #: 28011

Attention: Viktor Kopetsky

Barenco Inc

2561 Stouffville Rd

PO Box 295

Gormley, ON

L0H 1G0

Report Date: 2008/10/31

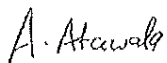
CERTIFICATE OF ANALYSIS

-2-

MAXXAM JOB #: A8C5287

Received: 2008/10/24, 16:35

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Akriti Atawala

01 Nov 2008 13:44:43 -04:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

MALGOSIA DANCZIGER, Project Manager

Email: Malgosia.Dancziger@maxxamanalytics.com

Phone# (905) 817-5700 Ext:5770

=====

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CALA have approved this reporting process and electronic report format.

For Service Group specific validation please refer to the Validation Signature Page

Total cover pages: 2

Page 2 of 11

Maxxam Job #: A8C5287
Report Date: 2008/10/31

Barenco Inc
Task Order#: 11050571
Site#:
Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)
Project #: 02150

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		AW6002	AW6003	AW6004		
Sampling Date		2008/10/23 09:00	2008/10/23 09:15	2008/10/23 09:30		
COC Number		28011	28011	28011		
	Units	03-TH 7	03-TH 6	BH90-110	RDL	QC Batch

Benzene	ug/L	<0.2	<0.2	<0.2	0.2	1656681
Toluene	ug/L	<0.2	<0.2	<0.2	0.2	1656681
Ethylbenzene	ug/L	<0.2	<0.2	<0.2	0.2	1656681
o-Xylene	ug/L	<0.2	<0.2	<0.2	0.2	1656681
p+m-Xylene	ug/L	<0.4	<0.4	<0.4	0.4	1656681
Total Xylenes	ug/L	<0.4	<0.4	<0.4	0.4	1656681
F1 (C6-C10)	ug/L	<100	<100	<100	100	1656681
F1 (C6-C10) - BTEX	ug/L	<100	<100	<100	100	1656681
Instrument Surrogate Recovery (%)						
1,4-Difluorobenzene	%	104	106	107		1656681
4-Bromofluorobenzene	%	93	96	98		1656681
D10-Ethylbenzene	%	91	94	94		1656681
D4-1,2-Dichloroethane	%	99	101	99		1656681

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: A8C5287
Report Date: 2008/10/31

Barenco Inc
Task Order#: 11050571
Site#:
Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)
Project #: 02150

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		AW6005	AW6006	AW6007		
Sampling Date		2008/10/23 10:00	2008/10/23 10:15	2008/10/23 10:30		
COC Number		28011	28011	28011		
	Units	BH90-111	TH04-02	BH90-115	RDL	QC Batch

Benzene	ug/L	<0.2	<0.2	<0.2	0.2	1656681
Toluene	ug/L	<0.2	<0.2	<0.2	0.2	1656681
Ethylbenzene	ug/L	<0.2	<0.2	<0.2	0.2	1656681
o-Xylene	ug/L	<0.2	<0.2	<0.2	0.2	1656681
p+m-Xylene	ug/L	<0.4	<0.4	<0.4	0.4	1656681
Total Xylenes	ug/L	<0.4	<0.4	<0.4	0.4	1656681
F1 (C6-C10)	ug/L	<100	<100	<100	100	1656681
F1 (C6-C10) - BTEX	ug/L	<100	<100	<100	100	1656681
Instrument Surrogate Recovery (%)						
1,4-Difluorobenzene	%	103	104	104		1656681
4-Bromofluorobenzene	%	94	95	95		1656681
D10-Ethylbenzene	%	89	92	90		1656681
D4-1,2-Dichloroethane	%	97	99	99		1656681

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: A8C5287
Report Date: 2008/10/31

Barenco Inc
Task Order#: 11050571
Site#:
Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)
Project #: 02150

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		AW6008	AW6009	AW6010		
Sampling Date		2008/10/23 11:00	2008/10/23 11:15	2008/10/23 11:30		
COC Number		28011	28011	28011		
	Units	BH92-322	BH92-318A	BH92-320	RDL	QC Batch

Benzene	ug/L	3.1	<0.2	<0.2	0.2	1656681
Toluene	ug/L	<0.2	<0.2	<0.2	0.2	1656681
Ethylbenzene	ug/L	<0.2	<0.2	<0.2	0.2	1656681
o-Xylene	ug/L	<0.2	<0.2	<0.2	0.2	1656681
p+m-Xylene	ug/L	<0.4	<0.4	<0.4	0.4	1656681
Total Xylenes	ug/L	<0.4	<0.4	<0.4	0.4	1656681
F1 (C6-C10)	ug/L	<100	<100	<100	100	1656681
F1 (C6-C10) - BTEX	ug/L	<100	<100	<100	100	1656681
Instrument Surrogate Recovery (%)						
1,4-Difluorobenzene	%	105	102	107		1656681
4-Bromofluorobenzene	%	95	94	98		1656681
D10-Ethylbenzene	%	91	88	92		1656681
D4-1,2-Dichloroethane	%	99	101	102		1656681

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



Maxxam Job #: A8C5287
Report Date: 2008/10/31

Barenco Inc
Task Order#: 11050571
Site#:
Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)
Project #: 02150

Test Summary

Maxxam ID AW6002
Sample ID 03-TH 7
Matrix Water

Collected 2008/10/23
Shipped 2008/10/23
Received 2008/10/24

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1656681	2008/10/28	2008/10/29	SPV

Maxxam ID AW6003
Sample ID 03-TH 6
Matrix Water

Collected 2008/10/23
Shipped 2008/10/23
Received 2008/10/24

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1656681	2008/10/28	2008/10/29	SPV

Maxxam ID AW6004
Sample ID BH90-110
Matrix Water

Collected 2008/10/23
Shipped 2008/10/23
Received 2008/10/24

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1656681	2008/10/28	2008/10/29	SPV

Maxxam ID AW6005
Sample ID BH90-111
Matrix Water

Collected 2008/10/23
Shipped 2008/10/23
Received 2008/10/24

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1656681	2008/10/28	2008/10/29	SPV

Maxxam ID AW6006
Sample ID TH04-02
Matrix Water

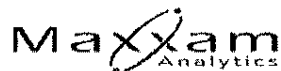
Collected 2008/10/23
Shipped 2008/10/23
Received 2008/10/24

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1656681	2008/10/28	2008/10/29	SPV

Maxxam ID AW6007
Sample ID BH90-115
Matrix Water

Collected 2008/10/23
Shipped 2008/10/23
Received 2008/10/24

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1656681	2008/10/28	2008/10/29	SPV



Maxxam Job #: A8C5287
Report Date: 2008/10/31

Barenco Inc
Task Order#: 11050571
Site#:
Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)
Project #: 02150

Test Summary

Maxxam ID AW6008
Sample ID BH92-322
Matrix Water
Collected 2008/10/23
Shipped 2008/10/23
Received 2008/10/24

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1656681	2008/10/28	2008/10/29	SPV

Maxxam ID AW6009
Sample ID BH92-318A
Matrix Water
Collected 2008/10/23
Shipped 2008/10/23
Received 2008/10/24

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1656681	2008/10/28	2008/10/29	SPV

Maxxam ID AW6010
Sample ID BH92-320
Matrix Water
Collected 2008/10/23
Shipped 2008/10/23
Received 2008/10/24

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1656681	2008/10/28	2008/10/29	SPV



Maxxam Job #: A8C5287
Report Date: 2008/10/31

Barenco Inc
Task Order#: 11050571
Site#:
Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)
Project #: 02150

Package 1	2.3°C
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Each temperature is the average of up to three cooler temperatures taken at receipt

GENERAL COMMENTS

Results relate only to the items tested.

Barenco Inc
 Task Order#: 11050571
 Site#:
 Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)
 Project #: 02150

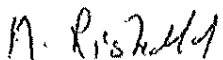
Quality Assurance Report

Maxxam Job Number: A8C5287

QA/QC Batch			Date Analyzed					
Num Init	QC Type	Parameter	yyyy/mm/dd	Value	Recovery	Units	QC Limits	
1656681	SPV	Method Blank	2008/10/29		105	%	70 - 130	
		1,4-Difluorobenzene	2008/10/29		96	%	70 - 130	
		4-Bromofluorobenzene	2008/10/29		91	%	70 - 130	
		D10-Ethylbenzene	2008/10/29		97	%	70 - 130	
		D4-1,2-Dichloroethane	2008/10/29					
		Benzene	2008/10/29	<0.2		ug/L		
		Toluene	2008/10/29	<0.2		ug/L		
		Ethylbenzene	2008/10/29	<0.2		ug/L		
		o-Xylene	2008/10/29	<0.2		ug/L		
		p+m-Xylene	2008/10/29	<0.4		ug/L		
		Total Xylenes	2008/10/29	<0.4		ug/L		
		F1 (C6-C10)	2008/10/29	<100		ug/L		
		F1 (C6-C10) - BTEX	2008/10/29	<100		ug/L		
	LCS	1,4-Difluorobenzene	2008/10/29		106	%	70 - 130	
		4-Bromofluorobenzene	2008/10/29		95	%	70 - 130	
		D10-Ethylbenzene	2008/10/29		92	%	70 - 130	
		D4-1,2-Dichloroethane	2008/10/29		96	%	70 - 130	
		Benzene	2008/10/29		73	%	70 - 130	
		Toluene	2008/10/29		81	%	70 - 130	
		Ethylbenzene	2008/10/29		79	%	70 - 130	
		o-Xylene	2008/10/29		80	%	70 - 130	
		p+m-Xylene	2008/10/29		78	%	70 - 130	
		F1 (C6-C10)	2008/10/29		77	%	70 - 130	

Validation Signature Page**Maxxam Job #: A8C5287**

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



MEDHAT RISKALLAH, Manager, Hydrocarbon Department

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Maxxam

7740 Campbell Road
Mississauga, ON L5N 2L8
www.maxxam-analys.com

Phone: (905) 817-5700
Fax: (905) 817-5777
Toll Free: 1-800-563-6265
Emergency: (416) 882-8337

101 MAXXAM CHAIN-OF-CUSTODY RECORD

COC # 28011

Page 1 of 1

CUSTOMER NAME Barenco		PH # 905 887 6661	
CUSTOMER ADDRESS 3551 Stouffville Rd Cormley, ON L0H 1G6		FAX # 905 887 1999	
PROJECT NUMBER 0215D		CLIENT PROJECT ID #	
SAMPLER NAME/TYPE DMD/HF/NH/EP		PROJECT NUMBER VICTOR KOPITSKY	

FIELD SAMPLE ID	LAB	MATRIX (BULK OR V)	# CONTAINERS	DATE (MM/DD/YY)	TIME	WTLX	F1	F2	F4	OIL & GREASE - TOTAL / MINERAL (SPECIFY)	VOLATILES	PCB'S	PAH'S	LEAD	ICP METALS	ICPMS METALS (REG 153)	MERCURY	SALT / OR VI (SPECIFY)	BORON HOT WATER SOLUBLE	IONIZABILITY	REG 550 - INORGANICS	REG 558 - PCB LEACHATE	REG 550 - HTEX / VOLATILES (BULK OR V)	REG 558 - B(OP) / SEMI-VOLATILES (SPECIFY)
03-TH7	AW 6002	GAH 10610290	XX																					
03-TH6	AW 6003																							
BH90-110	AW 6004																							
BH90-111	AW 6005	GAH 10610290	XX																					
BH90-115	AW 6007																							
BH92-322	AW 6008																							
BH92-318A	AW 6003																							
BH92-323	AW 6010																							

COLLECTOR Zia Hassan	CUSTOMER SEAL YES	DOCKER ID	CUSTOMER SEAL	DOCKER ID	CUSTOMER SEAL
DATE/TIME 6/25/04	DATE/TIME 6/25/04	DATE/TIME 6/25/04	DATE/TIME 6/25/04	DATE/TIME 6/25/04	DATE/TIME 6/25/04
RECEIVED BY 6810123	RECEIVED BY 1500	RECEIVED BY 71 MAY 2004	RECEIVED BY 16:33	RECEIVED BY 16:33	RECEIVED BY 16:33

101 MISSISSAUGA ROAD PORT CREDIT
MAXXAM TASK ORDER # **11050571**

REG 153 - Table 2

SPECIAL INSTRUCTIONS:
- tiny bubbles may occur due to degassing sediment may be present in sample
ABC 6207
SAMPLES ENTERED BY: **MA/FD**

TURNAROUND TIMES:
SOLVENT: 15 days
AIR - SOLVENT CONTAINERS: 15 days

DATA QUALITY REVIEW CHECKLIST - IMPERIAL OIL PROJECTS

812000

Consultant: <u>Barenco Inc.</u>		Sampling Date: <u>October 23, 2008</u>	
Location: <u>10 Mississauga Rd., Mississauga, ON</u>		Laboratory: <u>Maxxam Analytics Inc.</u>	
Consultant Project Number: <u>02150</u>		Sample Submission Number: <u>A8C5287</u>	

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery	<i>X</i>			<i>-all lab QC samples are within acceptance criteria</i>
Extraction Surrogate Recovery	<i>X</i>			
Method Blank Concentration	<i>X</i>			
Matrix Duplicate RPD			<i>X</i>	
Matrix Spike Recovery			<i>X</i>	
Lab Control Sample Recovery	<i>X</i>			

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			<i>X</i>	
Trip Blank Concentration			<i>X</i>	
Field Duplicate RPD			<i>X</i>	

Has CoA been signed off (Yes/No)?:

Has lab warranted all tests were in statistical control in CoA (Yes/No)?:

Has lab warranted all tests were analyzed following SOP's in CoA (Yes/No)?:

Were all samples analyzed within hold times (Yes/No)?:

All volatiles samples methanol extracted (if required) within 48 hours (Yes/No)?:

Is Chain of Custody completed and signed (Yes/No)?:

Were sample temperatures acceptable when they reached lab (Yes/No)?:

	<u>Yes</u> <u>Yes</u> <u>Yes</u> <u>Yes</u> <u>Not Required</u> <u>Yes</u> <u>Yes</u>
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Was a Data Quality Waiver (DQW) issued (Yes/No)?:

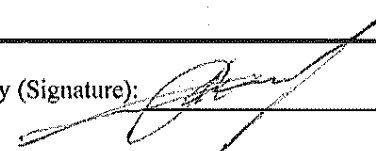
No

Date Issued: NA Date of Response: NA

Is data considered to be reliable (Yes/No)?:

If answer is "No", describe and provide rationale:

Yes

Data Reviewed by (Print): <u>Viktor Kopetsky</u>	Data Reviewed by (Signature): 
Date: <u>November 27, 2008</u>	

Task Order#: 11050571

Site#:

Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)

Project #: 02150

Your C.O.C. #: 28217

Attention: Viktor Kopetsky

Barenco Inc

2561 Stouffville Rd

PO Box 295

Gormley, ON

L0H 1G0

Report Date: 2008/11/05

CERTIFICATE OF ANALYSIS**MAXXAM JOB #: A8C8076****Received: 2008/10/30, 16:00**

Sample Matrix: Water

Samples Received: 1

Analyses	Quantity	Laboratory Method	Method Primary reference
Petroleum Hydro. CCME F1 & BTEX in Water	1	CAM SOP-00315	CCME CWS

Remarks:

Maxxam Analytics has performed all analytical testing herein in accordance with ISO 17025 and the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act. All methodologies comply with this document and are validated for use in the laboratory. The methods and techniques employed in this analysis conform to the performance criteria (detection limits, accuracy and precision) as outlined in the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act.

The CWS PHC methods employed by Maxxam conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following the 'Alberta Environment Draft Addenda to the CWS-PHC, Appendix 6, Validation of Alternate Methods'. Documentation is available upon request. Maxxam has made the following improvements to the CWS-PHC reference benchmark method: (i) Headspace for F1; and, (ii) Mechanical extraction for F2-F4. Note: F4G cannot be added to the C6 to C50 hydrocarbons.

Maxxam Analytics is accredited by SCC (Lab ID 97) for all specific parameters as required by GUCSO and O'Reg 153/04. Maxxam Analytics is limited in liability to the actual cost of analysis unless otherwise agreed in writing. There is no other warranty expressed or implied. Samples will be retained at Maxxam Analytics for three weeks from receipt of data or as per contract.

All data is in statistical control and has met all QC and method performance criteria unless otherwise flagged. All samples were analysed within hold time unless otherwise flagged. All BTEX samples were methanol extracted within 24 hours unless otherwise flagged.

Task Order#: 11050571

Site#:

Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)

Project #: 02150

Your C.O.C. #: 28217

Attention: Viktor Kopetsky

Barenco Inc

2561 Stouffville Rd

PO Box 295

Gormley, ON

L0H 1G0

Report Date: 2008/11/05

CERTIFICATE OF ANALYSIS

-2-

MAXXAM JOB #: A8C8076

Received: 2008/10/30, 16:00

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Malgosia Dancziger

05 Nov 2008 16:09:03 -05:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

MALGOSIA DANCZIGER, Project Manager

Email: Malgosia.Dancziger@maxxamanalytics.com

Phone# (905) 817-5700 Ext:5770

=====

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CALA have approved this reporting process and electronic report format.

For Service Group specific validation please refer to the Validation Signature Page

Total cover pages: 2

Page 2 of 8

Maxxam Job #: A8C8076
Report Date: 2008/11/05

Barenco Inc
Task Order#: 11050571
Site#:
Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)
Project #: 02150

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		AX9557		
Sampling Date		2008/10/29 15:15		
COC Number		28217		
	Units	BH92-326	RDL	QC Batch

Benzene	ug/L	<0.2	0.2	1661519
Toluene	ug/L	<0.2	0.2	1661519
Ethylbenzene	ug/L	<0.2	0.2	1661519
o-Xylene	ug/L	<0.2	0.2	1661519
p+m-Xylene	ug/L	<0.4	0.4	1661519
Total Xylenes	ug/L	<0.4	0.4	1661519
F1 (C6-C10)	ug/L	<100	100	1661519
F1 (C6-C10) - BTEX	ug/L	<100	100	1661519
Instrument Surrogate Recovery (%)				
1,4-Difluorobenzene	%	101		1661519
4-Bromofluorobenzene	%	101		1661519
D10-Ethylbenzene	%	98		1661519
D4-1,2-Dichloroethane	%	110		1661519

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

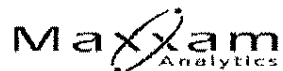
Maxxam Job #: A8C8076
Report Date: 2008/11/05

Barenco Inc
Task Order#: 11050571
Site#:
Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)
Project #: 02150

Test Summary

Maxxam ID	AX9557	Collected	2008/10/29
Sample ID	BH92-326	Shipped	2008/10/29
Matrix	Water	Received	2008/10/30

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	1661519	2008/11/03	2008/11/04	DCA



Maxxam Job #: A8C8076
Report Date: 2008/11/05

Barenco Inc
Task Order#: 11050571
Site#:
Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)
Project #: 02150

Package 1	1.0°C
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Each temperature is the average of up to three cooler temperatures taken at receipt

GENERAL COMMENTS

Results relate only to the items tested.

Barenco Inc
 Task Order#: 11050571
 Site#:
 Site Location: 10 MISSISSAUGA RD, PORT CREDIT (SOUTH PROPERTY)
 Project #: 02150

Quality Assurance Report

Maxxam Job Number: A8C8076

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1661519 DCA	Method Blank	1,4-Difluorobenzene	2008/11/04		101	%	70 - 130
		4-Bromofluorobenzene	2008/11/04		95	%	70 - 130
		D10-Ethylbenzene	2008/11/04		96	%	70 - 130
		D4-1,2-Dichloroethane	2008/11/04		108	%	70 - 130
		Benzene	2008/11/04	<0.2		ug/L	
		Toluene	2008/11/04	<0.2		ug/L	
		Ethylbenzene	2008/11/04	<0.2		ug/L	
		o-Xylene	2008/11/04	<0.2		ug/L	
		p+m-Xylene	2008/11/04	<0.4		ug/L	
		Total Xylenes	2008/11/04	<0.4		ug/L	
	LCS	F1 (C6-C10)	2008/11/04	<100		ug/L	
		F1 (C6-C10) - BTEX	2008/11/04	<100		ug/L	
		1,4-Difluorobenzene	2008/11/04		103	%	70 - 130
		4-Bromofluorobenzene	2008/11/04		101	%	70 - 130
		D10-Ethylbenzene	2008/11/04		97	%	70 - 130
		D4-1,2-Dichloroethane	2008/11/04		102	%	70 - 130
		Benzene	2008/11/04		100	%	70 - 130
		Toluene	2008/11/04		100	%	70 - 130
		Ethylbenzene	2008/11/04		105	%	70 - 130
		o-Xylene	2008/11/04		101	%	70 - 130
		p+m-Xylene	2008/11/04		102	%	70 - 130
		F1 (C6-C10)	2008/11/04		106	%	70 - 130

Validation Signature Page**Maxxam Job #: A8C8076**

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



MAMDOUH SALIB, Analyst, Hydrocarbons

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CALA have approved this reporting process and electronic report format.

Maxxam

8740 Campobello Road
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Toll Free: 1-800-563-6266
Emergency: (416) 892-8857

101/MAXXAM CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Col C# 28217

COMPANY NAME BARENCO		PH # 905 887 6661		FAX # 905 887 1999		CLIENT PROJECT ID: (N)		02150		PROJECT MANAGER V. Kopecky	
COMPANY ADDRESS 2561 Stouffville Rd Stouffville, ON L4H 1G0		SAMPLER NAME/PRINT HF/NH		FIELD SAMPLE ID BH92-326		MAXXAM LAB "		MATRIX (SPECIFY) "		CONTAINERS "	
DATE / TIME 08/10/29 15:00		BY XX		OIL & GREASE - TOTAL / MINERAL (SPECIFY)		VOLATILES		PCBS		PAH'S	
LEAD		ICP METALS		ICPMS METALS (P/P, A/S)		MERCURY		SAR / CR VI (SPECIFY)		EQUANT HOT WEIGHT SOLUBLE	
IGNITABILITY		NEG IER - INORGANICS		PES 95% - PCB LEACHATE		PES 550 - NITX / VOLATILES (SPECIFY)		PES 550 - NITX / VOLATILES (SPECIFY)		PES 550 - NITX / VOLATILES (SPECIFY)	
PES 550 - NITX / VOLATILES (SPECIFY)		PES 550 - NITX / VOLATILES (SPECIFY)		PES 550 - NITX / VOLATILES (SPECIFY)		PES 550 - NITX / VOLATILES (SPECIFY)		PES 550 - NITX / VOLATILES (SPECIFY)		PES 550 - NITX / VOLATILES (SPECIFY)	

101 SITE LOCATION: (South property) 101 Mississauga Road, Port Credit		REGULATORY CRITERIA / DETECTION LIMITS: Reg 153 - Table 2		SPECIAL INSTRUCTIONS: tiny bubbles may occur due to degassing sediment may be present		MAXXAM JOB #: A808076	
MAXXAM TASK ORDER #: 11050571		101 CONTACT: Zia Hasan		SAMPLER ENTERED BY: [Signature]			

COOLER ID 02150	CUSTOMER SEAL 40	COOLER ID 40	CUSTOMER SEAL 40	COOLER ID 40	CUSTOMER SEAL 40
TEMP 11.1°C	AVG 40	TEMP 40	AVG 40	TEMP 40	AVG 40

RELINQUISHED BY: [Signature]	DATE/TIME 08/10/29 17:00	TIME 17:00	RECEIVED BY: Zia Hasan	DATE/TIME 08/10/29 16:00	TIME 16:00
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TURNAROUND TIMES		A/R - SURVIVAL CANISTERS	
Standard	3 days	Standard (15 days)	<input type="checkbox"/>
Fast	2 days	Fast (10 days)	<input type="checkbox"/>
	2 days	Fast (5 days)	<input type="checkbox"/>
	1 day	Fast (3 days)	<input type="checkbox"/>
	same day		

Page 8 of 8

DATA QUALITY REVIEW CHECKLIST - IMPERIAL OIL PROJECTS

LZL000

Consultant: <u>Barenco Inc.</u>		Sampling Date: <u>October 29, 2008</u>	
Location: <u>10 Mississauga Rd., Mississauga, ON</u>		Laboratory : <u>Maxxam Analytics Inc.</u>	
Consultant Project Number: <u>02150</u>		Sample Submission Number: <u>A8C8076</u>	

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery	<i>X</i>			<i>-all lab QC samples are within acceptance criteria</i>
Extraction Surrogate Recovery	<i>X</i>			
Method Blank Concentration	<i>X</i>			
Matrix Duplicate RPD			<i>X</i>	
Matrix Spike Recovery			<i>X</i>	
Lab Control Sample Recovery	<i>X</i>			

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			<i>X</i>	
Trip Blank Concentration			<i>X</i>	
Field Duplicate RPD			<i>X</i>	

Has CoA been signed off (Yes/No)?:

Has lab warranted all tests were in statistical control in CoA (Yes/No)?:

Has lab warranted all tests were analyzed following SOP's in CoA (Yes/No)?:

Were all samples analyzed within hold times (Yes/No)?:

All volatiles samples methanol extracted (if required) within 48 hours (Yes/No)?:

Is Chain of Custody completed and signed (Yes/No)?:

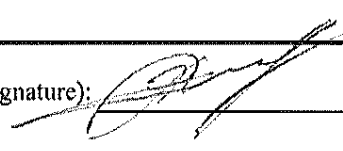
Were sample temperatures acceptable when they reached lab (Yes/No)?:

Was a Data Quality Waiver (DQW) issued (Yes/No)?:

Date Issued: NA Date of Response: NA

Is data considered to be reliable (Yes/No)?:

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): <u>Viktor Kopetsky</u>	Data Reviewed by (Signature): 
Date: <u>November 27, 2008</u>	

Ministry of the Environment
and Climate Change

Freedom of Information and
Protection of Privacy Office

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

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

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

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



May 17, 2017

Breanne Graham
Stantec Consulting
835 Paramount Dr
Stoney Creek, ON L8J 0B4

Dear Breanne Graham:

RE: Freedom of Information and Protection of Privacy Act Request
Our File #: A-2017-03160, Your Reference #: 122120255

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to Lots 9, 10 and 11, Broken Front Concession, Toronto Twp (Mississauga).

After a search of the Ministry's Halton-Peel District Office, Investigations and Enforcement Branch, Environmental Monitoring and Reporting Branch, Sector Compliance Branch and Safe Drinking Water Branch, records were located in response to your request. It is my preliminary decision to provide partial access to the information as the identity of complainants will be removed to protect privacy (Section 21(1)(f) of the Act). As well, corporate confidential information will require notice to the third party (Section 17(1)(a), (c) of the Act).

In accordance with Section 57 of the *Freedom of Information and Protection of Privacy Act*, the estimated fee is:

• Search Time 1 hour @ \$30/hour	\$ 30.00
• CD	10.00
• Preparation Time approx. 1.23 hours @ \$30/hour	36.90
• Delivery	3.00
• Total	\$ 79.90
• Deposit Received	- 30.00
• Balance Due	\$ 49.90

Due to the volume, the records will be provided to you electronically on a CD. The Ministry has relied on Order PO-3621 by the Office of the Information and Privacy Commission (IPC) in order to calculate the estimated fees. Order PO-3621 states that the Ministry may charge a preparation fee of \$30.00 per hour for every 1,200 pages of scanned records. The breakdown of the approximate preparation fee is as follows: an estimated 1.23 hours to convert approximately 1474 pages to electronic format. Please note, that upon completion of the Ministry's review, additional preparation charges may be applied to account for any severances made to the records in accordance with the exemptions under the Act. These severances will be charged at a rate of \$30.00 per hour, calculated at a rate of two minutes per page.



In order for us to continue processing the request, please forward this amount to our office. You may pay by money order or cheque (made payable to the "Minister of Finance (FOI)") or by credit card. Credit card forms are available on the Ministry's website <http://www.ontario.ca/environment-and-energy/freedom-information-request-form-credit-card-form>. Please do not mail cash.

If payment has not been received within 45 days this file will be closed. When remitting payment, please quote our file number or attach a copy of this letter.

To conduct a search through the files of the Environmental Approvals Branch requires an additional 8 hours. If you would like us to search for Environmental Compliance Approvals/Certificates of Approval at the Environmental Approvals Branch (EAB), \$240.00 in addition to the above amount is required (please note that there is no guarantee any records will be located responsive to your request). **As EAB may have filed approval records by the proponent of the approval (current/former property owner/tenants of the property) rather than the site address, you will be required to provide all current/former property owner/tenant names for the search years you requested in your application when submitting payment for this search.**


The District Office has advised that there may be records in the Records Centre, Mississauga. To retrieve these files there is a charge of \$60.00 with no guarantee that any records will be located responsive to your request. If you would like us to retrieve these files, \$60.00 in addition to the above amount is required.

A request for records must usually be answered within 30 calendar days, however Section 27 allows for time extensions under certain circumstances. The time limit for answering your request has been extended for an additional 150 days after receipt of your deposit. This additional time is required because of the extremely large volume of material to be reviewed and prepared for disclosure.

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

If you have any questions regarding this matter, please contact Sharon Menzies at (416) 327-1429.

Yours truly,

for 

Janet Dadufalza
FOI Manager

**Ministry of the Environment
and Climate Change**

Freedom of Information and
Protection of Privacy Office

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

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

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Toronto ON M4V 1M2
Tél. : (416) 314-4075
Téléc.: (416) 314-4285



May 23, 2017

Breanne Graham
Stantec Consulting
835 Paramount Dr
Stoney Creek, ON L8J 0B4

Dear Breanne Graham:

RE: *Freedom of Information and Protection of Privacy Act Request*
Our File #: A-2017-03337, Your Reference #: 122120255

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to Lot 11, Broken Front Concession, Toronto Twp (Mississauga).

This request is being withdrawn as after a thorough search of the Ministry's Halton Peel District Office, Investigations and Enforcement Branch, Environmental Monitoring and Reporting Branch, Sector Compliance Branch and Safe Drinking Water Branch, records were located in response to your request. However, our response regarding the above-mentioned site address has already been responded to you under your request A-2017-03160 for the site address of Lots 9 to 11, Broken Front Concession, Toronto Twp (Mississauga). The records reference all of the Lots and there are no records specific to the site address for this request. As a search had been conducted for this request and in accordance with Section 57 of the *Freedom of Information and Protection of Privacy Act*, the fee owed is \$30.00 for 1 hour of search time @ \$30.00 per hour which we have applied the \$30.00 for this request from your initial payment. This file is now closed.

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

If you have any questions regarding this matter, please contact Sharon Menzies at (416) 327-1429.

Yours truly,


Janet Dadufalza
FOI Manager



Ministry of the Environment
and Climate Change

Freedom of Information and
Protection of Privacy Office

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Ministère de l'Environnement et de
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12^e étage
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Toronto ON M4V 1M2
Tél. : (416) 314-4075
Télec.: (416) 314-4285



May 29, 2017

Breanne Graham
Stantec Consulting
835 Paramount Dr
Stoney Creek, ON L8J 0B4

Dear Breanne Graham:

RE: Freedom of Information and Protection of Privacy Act Request
Our File #: A-2017-03336, Your Reference #: 122120255

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 53 Lake St, Mississauga.

After a thorough search of the Ministry's Halton-Peel District Office, Investigations and Enforcement Branch, Environmental Approvals Branch, Environmental Monitoring and Reporting Branch, Sector Compliance Branch and Safe Drinking Water Branch, records were located in response to your request. It is my decision to provide partial access to the attached information as the personal information of private individuals has been removed to protect privacy (Section 21(1)(f) of the Act).

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

• Search Time 1 hour @ \$30/hour	\$30.00
• Copying 11 pages @ \$0.20/page	\$2.20
• Delivery	3.00
• Total	\$ 35.20
• Deposit Received	- 30.00
• BALANCE WAIVED (NOT REQUIRED)	\$ 5.20

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

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

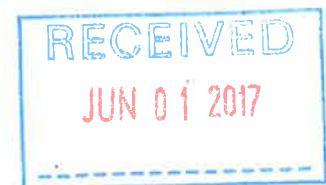
If you have any questions regarding this matter, please contact Michael Kolaric at (416) 327-3036. -

Yours truly,

ORIGINAL SIGNED BY

Janet Dadufalza
FOI Manager

Attachments





Ministry of the Environment
Ministère de l'Environnement

INCIDENT REPORT

Reference Number:	6844-84TMYK	File Storage Number:	SI-HP-MS-LA-100
Module:	Incident Reporting	Module Type:	Pollution Incident Report (PIR)
Cross Reference:	(doc link)	Task Link:	7822-84TNAJ
Originating Document:		Created by:	Emily Moore
Incident Report Reference Number:	6844-84TMYK		
Date Created:	2010/04/24	Date Completed:	2011/11/10
Bring Forward Date:		Bring Forward Reason:	
Status:	Closed		
Program	Water - Ground & Surface	Activity:	Pollution Incident Reports

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

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

☐ Yes ☒ No ☐ To be determined

[Click here for Guidance](#)

Caller or PO Information

Reported By:	Name of Company:			
				Unit Identifier:
				Delivery Identifier:
				Postal Code:
				Email Address:
Telephone Number:	Extension:	Other Number:	Fax	

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

MOE Information

Date & Time Reported to MOE:	2010/04/24 12:41		
Office Receiving Incident Report:	Spills Action Centre		
Incident Info Received By:	Emily Moore		
MOE Response:	Deferred Field Response	Site Region:	Central
Date & Time of MOE Arrival at Scene:			
Master Incident Report Number:			

SAC Action Class:	Pollution Incident Reports (PIRs) and "Other" calls		
Non-Standard Procedure:	No		
ERP Call-out Initiated:	No		

Client(s)

Client Details

Site(s)

Site Details J.C. Saddington Park<UNOFFICIAL> Address: Lot , Part , 53 Lake Street, Mississauga, City, Regional Municipality of Peel District Office: Halton-Peel

Incident Information

Incident Summary:	MOE TIPS: Debris in L. Ontario, Unknown Source <i>cannot be longer than 60 characters</i>
Incident Description:	<p>The following email was recieved at SAC :</p> <p>From: [REDACTED] Sent: Saturday, April 24, 2010 12:38:12 PM To: Tips, MoE (ENE) Subject: Dumping at J.J. Saddington Park - Port Credit Auto forwarded by a Rule</p> <p>To whom it may concern,</p> <p>I wish to bring to your attention that someone has dumped a large amount of debris and refuse into Lake Ontario at J.J. Saddington Park. The attached pictures clearly show the debris and the amount of area that was ruined as a result. Last year the water line reached up to the boulders along the shoreline and several hundred square feet of water are now buried and covered with debris.</p> <p>Unfortunately I have no idea who did this but I am deeply disappointed that someone has ruined what was a beautiful spot [REDACTED]</p> <p>I hope that those responsible are made to pay to clean the area up and return it to its original state.</p> <p>Sincerely,</p> <p>[REDACTED]</p> <p>The following email reply was sent to the complainant</p> <p>From: Moore, Emily (ENE) Sent: April 24, 2010 1:19 PM To: [REDACTED] Subject: Dumping at J.J. Saddington Park - Port Credit</p> <p>Thanks for your email tip. If you have any further questions or concerns, please contact the Halton Peel District Office at 905-319-3847 and refer to Incident Report number 6844-84TMYK. Please do not respond to this email.</p> <p>Regards, Emily Moore</p>

Sr. Environmental Officer
Spills Action Centre
Ministry of the Environment

2011/11/01: RK went by the park. Did not note any issues along shoreline. Photos appear to be a natural occurrence rather than illegal dumping. The complaint came in during the spring.

2011/11/02: Update IDS. Note and file. NFA from abatement at this time.

Links & Comments:



DSC00028.JPG DSC00027.JPG

Attachments Names:

Date & Time of Incident	Incident Date Confirmation? Actual 2010/04/24					
Source Type:		Sector Type:				
Nearest Watercourse:		Watershed Category Code:				
Environmental Impact:						
Nature of Impact:						
Incident Cause:		Incident Reason:				
Damaged Party:	No					
Contaminants Table						
Contaminant Name	Code	UN#	Limit	Quantity	[units]	[freq]
Controller of Material:		Owner of Material:				
Estimated Clean Up Cost:		Who Cleaned Up:				
% Clean Up:	%	Agencies Involved:				

Voluntary / Mandatory Abatement

Is there Voluntary Abatement Activity?

☐ Yes

☒ No

☐ To be determined

Voluntary / Mandatory Compliance Items

Type Parent RefNo Work Summary (may be truncated)

Date

AttainList

Offence(s)

Suspected Violation(s)/Offence(s):

Act - Regulation - Section,
Description
{General Offence}

Provincial Officer:

Name: Rachel Krisak
Badge No: 1012

Work Unit:
District/Area Office: Halton-Peel District Office
Date: 2011/11/02

Signature:

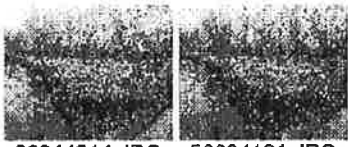
Senior Environmental Officer:

Name: Ken Simmons

Work Unit:
District/Area Office: Halton-Peel District Office
Date: 2011/11/10

Signature:





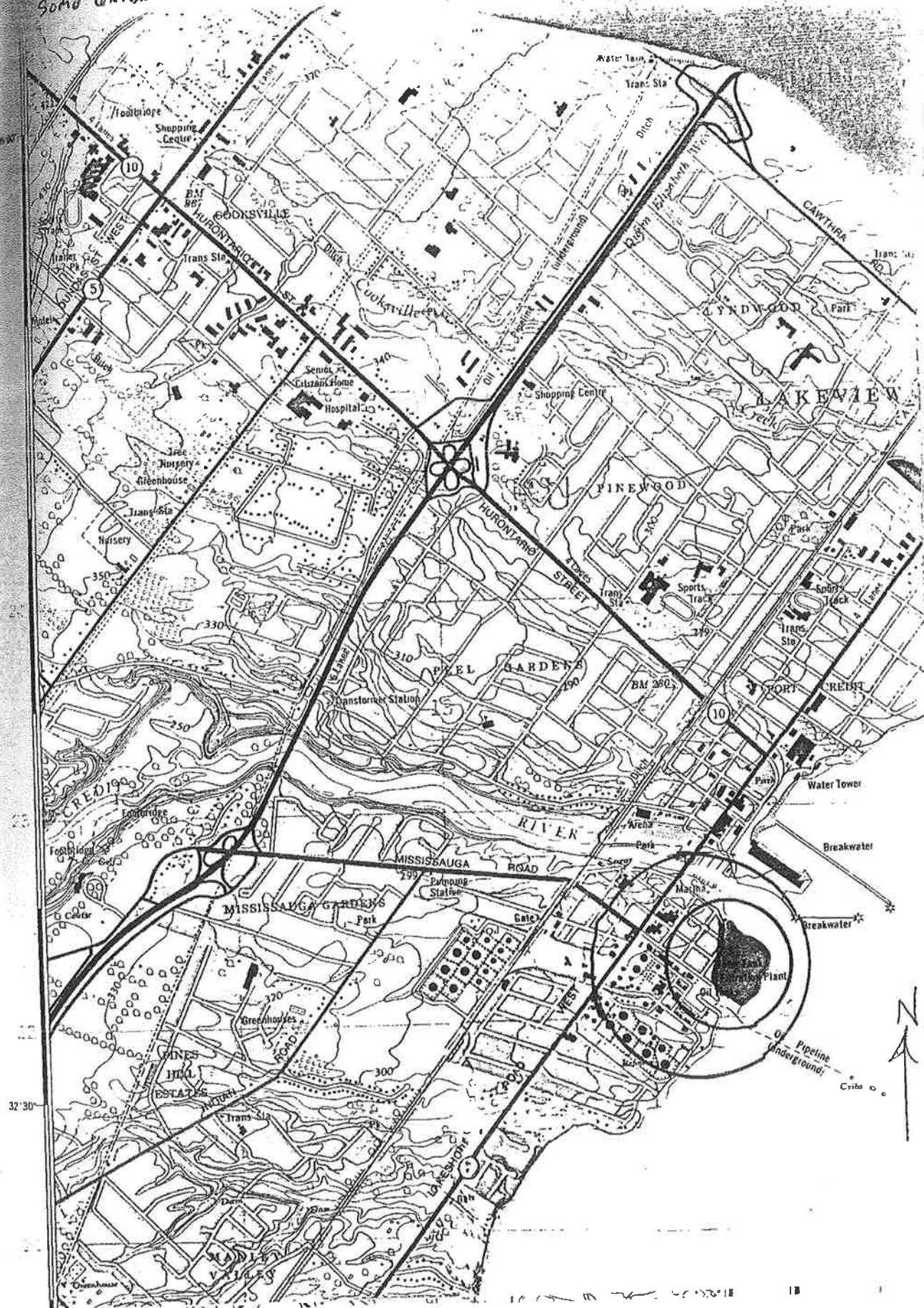
28344214.JPG 56624131.JPG

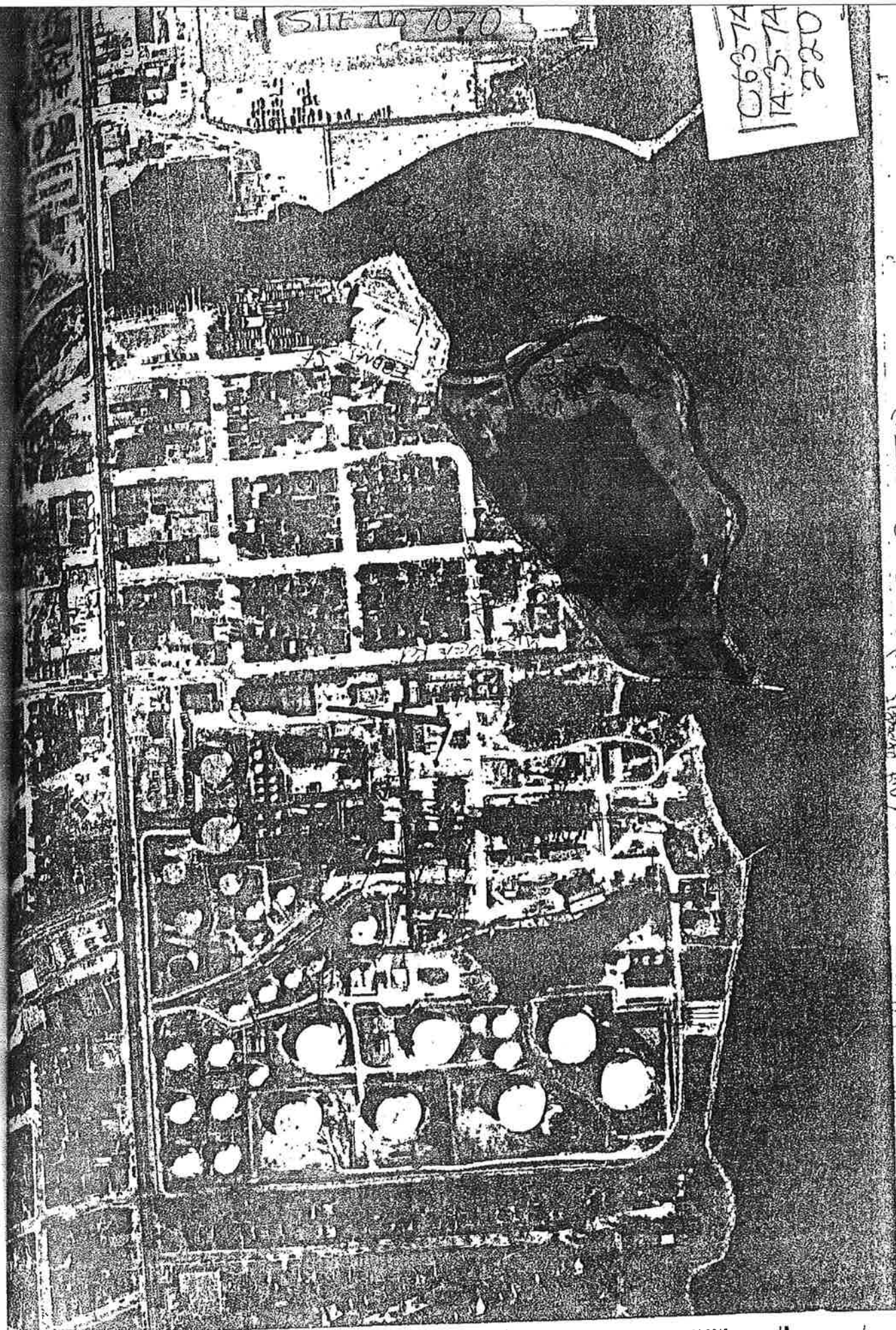
TYPE OF WASTE:

Clean Fill
Some Garbage

COMMENTS:

Made into Park with an artificial pond





SITE NO 1070

06374
143574
220

Note - section Memorial Park - 1.20 0.11 (not present) - 1.20

000007

465

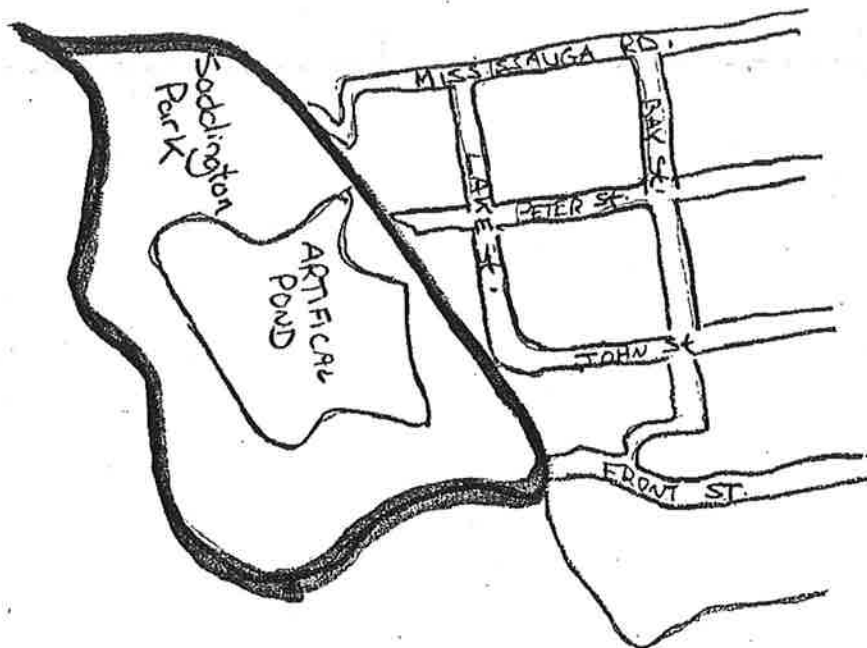


SITE NO. 7070
SADDINGTON MEMORIAL PARK
PORT CREDIT

Year 1954

Note: Saddington Park is not present
in this photo.
Yellow marker outlines where it
can be seen now.

SITE NO. 787D



CREDIT RIVER

N





Ministry of the Environment
and Climate Change

Freedom of Information and
Protection of Privacy Office

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

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

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

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



May 30, 2017

Breanne Graham
Stantec Consulting
835 Paramount Dr
Stoney Creek, ON L8J 0B4

Dear Breanne Graham:

**RE: *Freedom of Information and Protection of Privacy Act* Request
Our File #: A-2017-03150, Your Reference #: 122120255**

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 49 Pine Ave S, Mississauga.

After a thorough search of the Ministry's Halton-Peel District Office, Investigations and Enforcement Branch, Environmental Monitoring and Reporting Branch, Sector Compliance Branch and Safe Drinking Water Branch, records were located in response to your request. It is my decision to provide partial access to the attached information. To protect privacy, the identity of complainants has been removed in accordance with Section 21(1)(f) of the Act.

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

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

To conduct a search through the files of the Environmental Approvals Branch requires an additional 8 hours. If you would like us to search for Environmental Compliance Approvals/Certificates of Approval at the Environmental Approvals Branch (EAB), please forward to me at the above address payment by money order or cheque (made payable to the "Minister of Finance (FOI)") or by credit card in the amount of \$240.00. Please note that there is no guarantee any records will be located responsive to your request. Credit card forms are available on the Ministry's website <http://www.ontario.ca/environment-and-energy/freedom-information-request-form-credit-card-form>. Please note, a request for records must usually be answered within 30 calendar days, however Section 27 allows for time extensions under certain circumstances. If you choose to have the search conducted at the Environmental Approvals Branch, the time for answering your request will be extended for an additional 30 days.

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

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

If you have any questions regarding this matter, please contact Michael Kolaric at 416-327-3036..

Yours truly,



 Janet Dadufalza
FOI Manager

Attachments



OCCURENCE REPORT

Location of Occurrence: MISSISSAUGA CITY LAKE ONTARIO, FOOT OF PINE AVE., BEN MACHERE PARK Reg: 3 Dist: HP Municipality: 21102		Source: UNKNOWN Sector: UK Source: UK SIC: UTM: N: [0] E: [0] Zone: []	
Entered: 1998/07/20 11:49	ORIS No. 9800007052	Abstracts: 0	Diaries: 1
Received By: STEVE GREEN		Batch: 2853	I. E. B. No.
Occurrence Type: C	Subtype: 05	Occurrence Date:	
Work Plan:	WS	Occurrence Time:	
Reported By:		Report to MOE : 1998/07/20 11:49 MOE at Scene: 98/07/20 14:11	
Telephone No.	Alternate No. x	Assigned To:	GERRY HEALY
Address: 49 PINE AVE. MISSISSAUGA Postal Code:		ERP Contacted: Callout: [] NSP: [] ERP Name:	
Syn: SOURCE UNKNOWN - GREEN/ SEWAGE MATERIAL FLOATING AT BEACH. WORKS CONTACTED			
Brief Summary: CALLER REPORTS A GREEN MATERIAL WITH STRONG SEWAGE ODOUR HAS BEEN EVIDENT AT THE ABOVE LOCATION FOR THE LAST WEEK. SAC SUGESTED IT MIGHT BE ALGEE. SAC SEARCHED RECENT REPORTS IN THE AREA AND NO OTHERS MATCHED. CALLER REQUESTED UPDATE. @11:56 SAC TO REG. OF PEEL - DISPATCH WILL HAVE TONY CALL SAC. @12:00 TONY TO SAC - NO RELATED CALLS REC'D PEEL. TONY WILL CHECK SITE, UPDATE SAC. SAC TO UPDATE CALLER. 14:00 GERRY HEALY TO SAC - HE HAS INVESTIGATED WITH TONY AND CONFIRMS IT MUST BE ALGEE. HE ALSO REC'D A CALL FROM MPP MARGRET MARLANDS OFFICE. @14:02 SAC LEFT MESSAGE FOR CALLER WITH UPDATE.			
If there are related reports, record initial/master ORIS No. here >>			
Followup Action: Abatement IEB Other BF Date: ODORS CONFIRMED FROM DECAYING ALGAL BLOOM. NO FURTHER ACTION BY MOE.			
File Closed: X Abatement: IEB Other Suspected Violation:			
Report Prepared By: GERRY HEALY	Date: 22/07/98	IEB Investigator:	IEB BF Date
Approving Officer ROBERT ADCOCK	Date: 22/07/98	Reviewing Officer:	Date
Specify number(s) for routing Original [] [] [] [] []		Continued [] Yes	
Specify number(s) for copy distribution [] [] [] [] [] []			
1. Investigator/E.O.	2. D. O. /File	3. SAC (initial spills)	
4. Reg. Dir. / _____ Mgr.	5. IEB Reg. Spv	6. IEB H.O./file	7. Other _____
SAC Action Class: 1: 2:			

Material 1:
Amount :
Material 2:

Code :
UN No.:
Code :

Amount :		UN No.:
Material 3:		Code :
Amount :		UN No.:
Cause. :		Code. . :
Reason. :		Code. . :
Person in Control:		Waste GenNum :
Owner :		Waste GenNum :
Agencies Involved :		
Clean up and Restoration Carried out by:		
<input type="checkbox"/> [v] Controller <input type="checkbox"/> [v] Owner <input type="checkbox"/> [N] Other		
% Cleaned up:		Estimated Cost:
Were Directions or Approval Given Under		
EPA Part X <input type="checkbox"/> [v]	Regulation 362 <input type="checkbox"/> [v]	Manifest No.
Waste Class :	Code . . :	
Hauler :	Code . . :	
Disposal Site :	Code . . :	
Environmental Impact:	Nature of Impact:	Code . . :
People/Business Damaged		
(Other than to Owner/Controller) :		
Nature of Damage:	Code . . :	

Ministry of the Environment
and Climate Change

Freedom of Information and
Protection of Privacy Office

12th Floor
40 St. Clair Avenue West
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Ministère de l'Environnement et de
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climatique

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



August 9, 2017

Breanne Graham
Stantec Consulting
835 Paramount Dr
Stoney Creek, ON L8J 0B4

Dear Breanne Graham:

RE: ***Freedom of Information and Protection of Privacy Act Request***
Our File # A-2017-05620, Your Reference 122120255

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

The search is being conducted on the following: 181 Lakeshore Rd W, Mississauga (Port Credit). If there is any discrepancy please contact us immediately.

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

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

Yours truly,

Janet Dadufalza
FOI Manager

MOE-INFO MGMENT & ACCES
40 ST. CLAIR AVENUE M4V1M2

TORONTO ON

20164541

GH2016454151

PURCHASE

08-10-2017 09:39:07

Acct # *****9362 M

Exp Date **/** Card Type VI

Name:

Trace # 2046

Inv. # 1705620

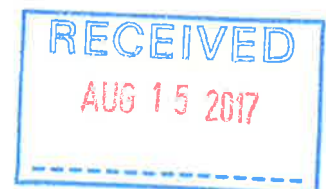
Auth # 04288F

RRN 001004582

Total \$35.00

(001) APPROVED-THANK YOU

Retain this copy for your
records
Customer copy



APPENDIX D-4

REGION OF PEEL RESPONSE

From: [Fox, Mark](#)
To: [Graham, Breanne](#)
Subject: RE: File No. 02150-A3
Date: Tuesday, July 18, 2017 4:30:58 PM
Attachments: [image001.png](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)
[image006.png](#)
[image007.png](#)
[image008.png](#)
[image009.png](#)
[Saddington Memorial Park Landfill Map.png](#)

Hello Breanne,

Unfortunately I cannot offer you much more information than that which was provided in the March 2013 letter to Netta Benazan as the Regional Municipality of Peel's records concerning the nature of former waste disposal sites are incomplete.

Saddington Park is owned by the City of Mississauga. The landfill site closed in the 1970's and was likely used for the disposal of construction, demolition and residential wastes. Region of Peel staff visually inspect the park annually and there has been no indication of any landfill related issues. Our records indicate that gas monitoring was last performed in the fall of 1993 and at that time there was no trace of methane gas detected in the subsurface soil of Saddington Park.

The City of Mississauga owns and maintains several parklands which are former waste disposal sites and the Parks Department may be able to provide you with information. Additionally, you can contact the Ministry of Environment and Climate Change Halton –Peel District office for their records: 4145 North Service Road, Suite 300, Burlington, ON, L7L 6A3 or call 1-905-319-3847 or Toll Free 1-800-335-5906.

The attached illustrates the approximate location of the landfill boundary.

Thank you,

Mark Fox

Supervisor, Infrastructure Development

Waste Management, Region of Peel

Office: 905-791-7800 x 4591

Cell: 905-866-2256

www.peelregion.ca

From: Graham, Breanne [<mailto:Breanne.Graham@stantec.com>]

Sent: July 18, 2017 12:53 PM

To: Fox, Mark

Subject: File No. 02150-A3

Hello Mark,

I am working on behalf of the owner of 70 Mississauga Road South, Mississauga. I was reviewing

a previous report prepared for the property and I found a letter you addressed to Netta Benazon dated March 26, 2013.

I am looking for additional information regarding M.O.E waste disposal site #7070. Do you have a site plan indicating where on the property landfilling activities occurred? Or do you have records of the completion of routine monitoring demonstrating the statement that no trace of methane gas or leachate was detected? We require confirmation regarding the type of waste disposed within this area, if it was the disposal of construction and demolition wastes, is there a timeframe associated with this?

Any and all information regarding M.O.E #7070 at the Saddington Memorial Park property would be beneficial.

If you are not the correct person to contact can you please point me in the direction of someone who is?

Thanks,

Breanne Graham

Environmental Scientist
Stantec

200-835 Paramount Drive Stoney Creek ON L8J 0B4

Phone: 905-381-3274

Cell: 647-628-4019

breanne.graham@stantec.com

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

 Please consider the environment before printing this email.

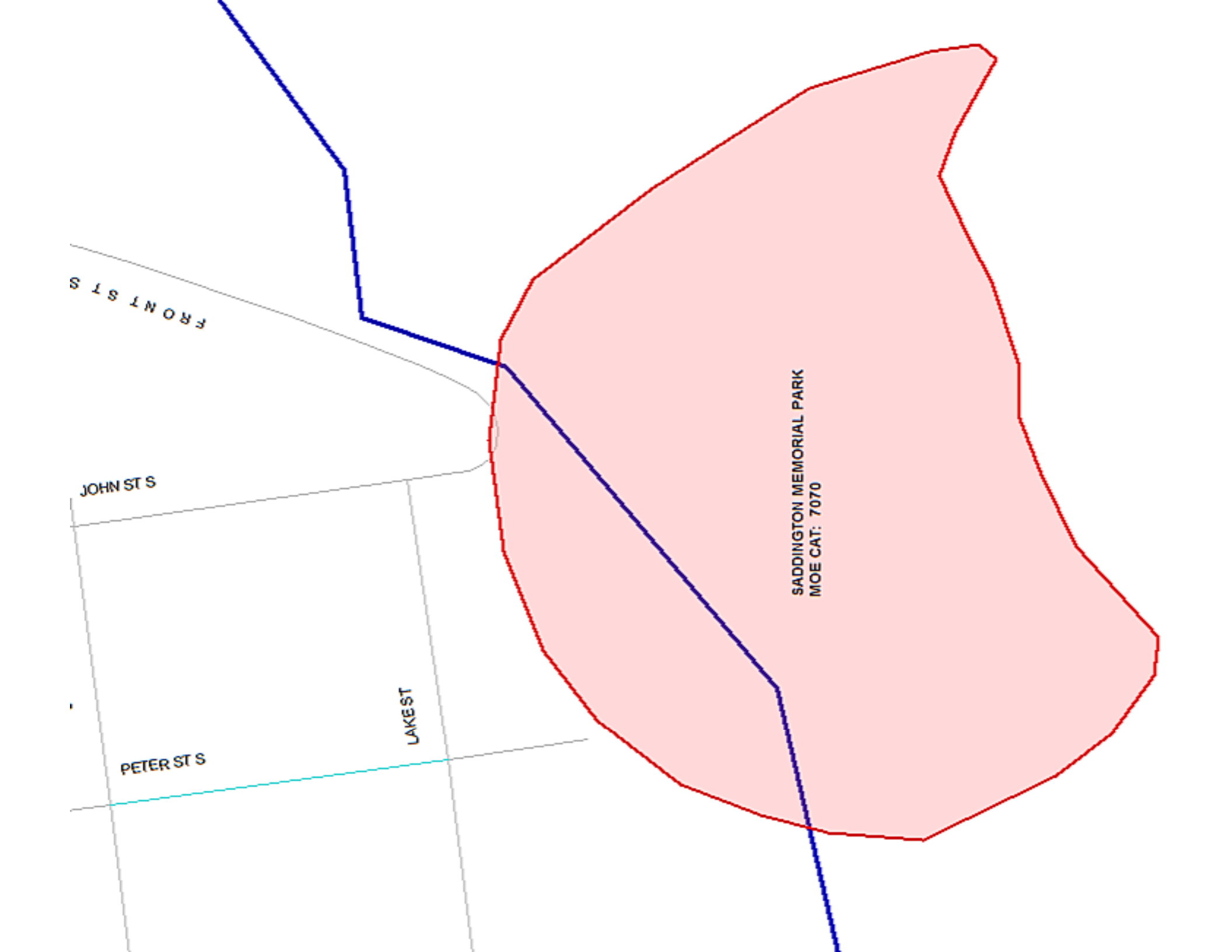
FRONT ST S

JOHN ST S

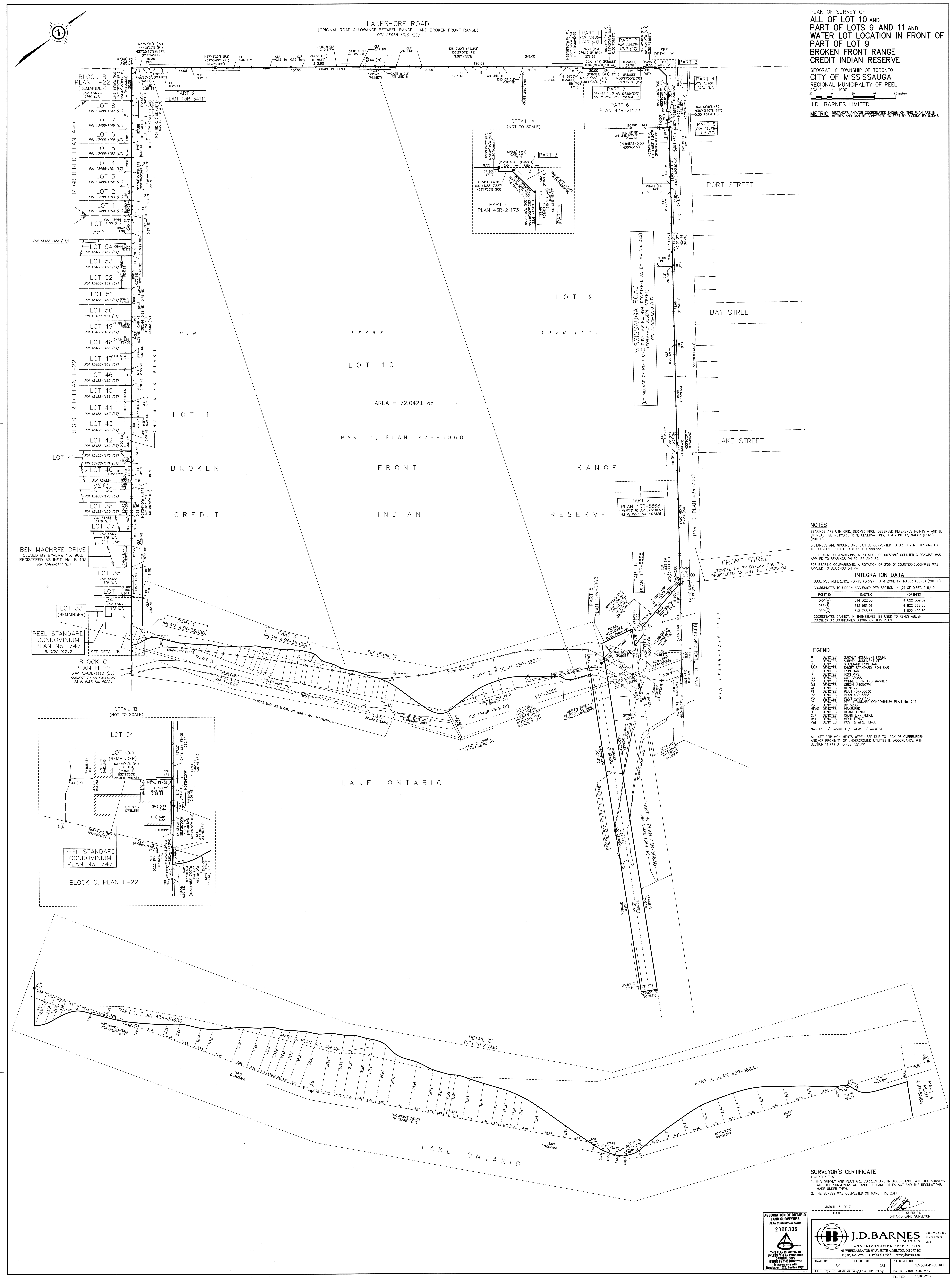
PETER ST S


LAKE ST

SADDINGTON MEMORIAL PARK
MOE CAT: 7070



APPENDIX D-5
PHASE ONE PROPERTY PLAN OF SURVEY



GEOGRAPHIC TOWNSHIP OF TORONTO
CITY OF MISSISSAUGA
REGIONAL MUNICIPALITY OF PEEI
SCALE 1 : 1000

J.D. BARNES LIMITED
METRIC DISTANCES AND/OR COORDINATES SHOWN ON THIS PLAN ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048.

INTEGRATION DATA			
OBSERVED REFERENCE POINTS (ORP): UTM ZONE 17, NAD83 (CSRS) (2010.0).			
COORDINATES TO URBAN ACCURACY PER SECTION 14 (2) OF OREG 216/10.			
POINT ID	EASTING	NORTH	
ORP (A)	614 322.05	4 822	339.09
ORP (B)	613 981.96	4 822	592.85
ORP (C)	613 765.66	4 822	409.80
COORDINATES CANNOT, IN THEMSELVES, BE USED TO RE-ESTABLISH CORNERS OR BOUNDARIES SHOWN ON THIS PLAN.			

LEGEND

DN	DENOTES	SURVEY MONUMENT FOUND
CT	DENOTES	SURVEY MONUMENT SET
SIB	DENOTES	STANDARD IRON BAR
SWB	DENOTES	SWAY STANDARD IRON BAR
IB	DENOTES	IRON BAR
RB	DENOTES	ROUND PIPE
CC	DENOTES	CUT CROSS
OC	DENOTES	CONCRETE PIN AND WASHER
OU	DENOTES	ORIGIN UNKNOW
OW	DENOTES	WITNESS
P1	DENOTES	PLAN 439-2663
P2	DENOTES	PLAN 439-3506
P3	DENOTES	PLAN 439-2117
P4	DENOTES	PLAN 439-2170
P5	DENOTES	CONDOMINIUM PLAN NO. 747
CP	DENOTES	CHANCE POINT
DF	DENOTES	DEEP FOUNDATION
MEAS	DENOTES	MEASURED
CLF	DENOTES	CHAIN LINK FENCE
MF	DENOTES	METAL FENCE
WP	DENOTES	POST & WIRE FENCE



N=North / S=South / E=East / W=West

ALL SET SIB MONUMENTS WERE USED DUE TO LACK OF OVERBURDEN AND THE PRESENCE OF UTILITY UTILITIES IN CLOSE PROXIMITY TO THE SITE OF 0.65 S25/91.

SURVEYOR'S CERTIFICATE

I CERTIFY THAT:

1. THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEY ACT, THE SURVEYORS ACT AND THE LAND TITLES ACT AND THE REGULATIONS MADE UNDER THEM.
2. THE SURVEY WAS COMPLETED ON MARCH 15, 2017.

ASSOCIATION OF ONTARIO LAND SURVEYORS PLAN SUBMISSION FORM 2006309  <p><small>THIS PLAN IS NOT VALID UNLESS IT IS EMBOSSED ORIGINAL COPY</small></p> <p><small>Regulation 192, Section 2(1)</small></p>	DATE _____ R.S. QUEBEN ONTARIO LAND SURVEYOR
	 <div> J.D. BARNES LAND INFORMATION SPECIALISTS 401 WHEELABRATOR WAY, SUITE A, MILTON, ON L9T 3C1 T: (905) 873-9555 F: (905) 873-9556 www.jdbarnes.com </div> <div> SURVEY MAPPING GIS </div>
DRAWN BY: _____ FILE: G:\17-30-04\100\17-30-041_1.dwg	CHECKED BY: _____ REFERENCE NO: _____ DATE: MARCH 15th, 2017