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Executive Summary

Dillon Consulting Limited was retained by Hamilton Waterfront Trust (HWT) to conduct a Phase One Environmental Site Assessment (ESA) for the properties located at Piers 5 to 8 in the west harbour of the City of Hamilton, Ontario (the site). Bayview Park was also included in the Phase One ESA, which is located approximately 22 m south of Pier 5, between Guise and Burlington Streets.

The Phase One ESA was conducted in general accordance with the Phase One ESA section of the Environmental Protection Act – Ontario Regulation 153/04 (O.Reg. 153/04), where applicable to the scope of work. It is understood that it is not the intention at this time to submit a Record of Site Condition to the Ontario Ministry of Environment and Climate Change (MOE), yet consideration for future submission was given during preparation of this report.

Dillon prepared a Records Review report in June 2013 as requested by HWT. At that time, the report was prepared in general accordance with the Phase 1 ESA Guidance prescribed by the Canadian Standards Association document (CSA-Z768-01) as well as O.Reg. 153/04. Bayview Park was not included as part of the Records Review at that time. The records obtained from the Records Review report were deemed sufficient for the purpose of this Phase One ESA. To supplement the available information, additional records were obtained from various private and regulatory agencies for Bayview Park and properties adjacent to Piers 5 to 8.

Records obtained for review of this Phase One ESA included Ecolog ERIS records, fire insurance plans, aerial photographs, chain of title documents, Municipal and Regulatory records, topographic, geologic and hydrogeologic mapping, MOE Freedom of Information documents and historical documents/reports supplied to Dillon from various sources.

The site has a long history of industrial and commercial landuses related to port activities. Records indicate that the area encompassing Piers 5 to 8 and Bayview Park was first developed in the mid-1800s. For Piers 5 to 8, numerous stages of land reclamation activities have occurred, cumulating in the construction of Pier 8 in the 1960s. Over this time, the location, geometry and use of the piers has evolved. Historical records show that the early use of the wharves was for warehousing, coal storage and a power station. Later activities involved boat storage and maintenance associated with the marina and yacht club, a ferry terminal, aircraft hangar, trucking terminal and continued use of the land for warehousing and shipyard. The west portion of Pier 8 has been redeveloped for commercial and recreational use following the completion of a risk assessment and implementation of risk management measures. Bayview Park has been vacant or used as a park for most of the last century; however, it was occupied by a glass manufacturing facility from the mid to late 1800s.

Based on the review of the available information, the most significant potential contaminating activity for the Pier 5 to 8 portion of the site is the presence of fill material used to reclaim the site from Hamilton Harbour. Previous studies report that the fill is of variable quality and contains debris such as foundry sand, bricks, mortar, slag and coal. Previous studies indicate that fill material was generally found up to 9 metres below ground surface. Contaminants including metals and inorganics, petroleum hydrocarbons (PHCs), and polycyclic aromatic hydrocarbons (PAHs) were identified above applicable standards in the fill during various environmental or geotechnical investigations at the site. Portions of the fill were reported to have levels of pH outside the range provided in the applicable standards. The soil quality of a...
slag fill berm installed during reclaiming of land for Pier 8 could not be evaluated due to physical constraints. Due to the variable nature of the fill, shallow and subsurface soil, as well as groundwater may be impacted by metals and inorganics, PHCs, PAHs, and pH. Other contaminants may also be a concern in the fill due to the variable quality, and could include volatile organic compounds (VOCs), and polychlorinated biphenyls (PCBs). The fill material was identified as a Potentially Contaminating Activity (PCA) contributing to each area of potential environmental concern (APEC) identified at Piers 5 to 8. Dillon was not aware of any previous studies done at Bayview Park; therefore, fill material was not identified as an APEC for that portion of the site.

Other on site potential contaminating activities that are associated with the past and current practices for the Piers 5 to 8 portion of the site include: vehicle maintenance, storage/handling of bulk materials associated with port activities, presence of petroleum fuel storage tanks associated with vehicle/boat refueling operations and building heating, and two oil pipelines traversing the site.

Potential contaminating activities associated with Pier 5 to 8 from off-site activities include the potential for groundwater impacts to the site from a nearby historical landfill, and former auto body collision shop.

For Bayview Park, the most significant potential contaminating activity is the former use of the land as a glass manufacturing facility (Burlington Glass Works) prior to the 1900s.

A summary of the areas of potential environmental concern (APECs) identified for the site are listed below. Overall, 33 APECs were identified.

Identified APECs from Site and Off Site Sources

**Pier 5 – Royal Hamilton Yacht Club**

- APEC 1a: the area around the Royal Hamilton Yacht Club. Fill materials have been identified as an on-site potentially contaminating activity.
- APEC 1b: the area around the Royal Hamilton Yacht Club. Fill materials have been identified as an on-site potentially contaminating activity.
- APEC 1c: the south portion of Pier 5. Imported fill material has been listed as the on-site PCA, while historical records of a glass factory at the Bayview Park site (up gradient of Pier 5) was identified as an off-site PCA.
- APEC 1d: the portion of Pier 5 surrounding the Junior Sailors club was identified as an APEC due to on-site fill material and small-scale fuel and chemical storage.

**Pier 6 and 7 – Royal Hamilton Yacht Club**

- APEC 2a: encompasses the area around the Hamilton Port Authority buildings. Fill material of unknown quality and the past use of the area for port activities are PCAs contributing to this APEC.
- APEC 2b: encompasses the Hamilton Port Authority buildings. Maintenance of marine vehicles, fill material of unknown quality and the past use of the area for port activities are PCAs contributing to this APEC.
- APEC 2c: encompasses the Hamilton Port Authority fuelling station. Gasoline and associated products storage in fixed tanks, presence of fill material of unknown quality and former port activities are PCAs contributing to this APEC.
- APEC 2d: encompasses the Hamilton Port Authority Heated Storage Building. Former maintenance (boat painting/varnishing) activities at this site, fill materials of unknown quality and former port activities are PCAs contributing to this APEC.
- APEC 2e: encompasses the east side of the Hamilton Port Authority Heated Storage Building. Potential for a former heating oil tank, fill material of unknown origin, and former port activities are PCAs contributing to this APEC.
- APEC 2f: encompasses the James St. Pier. Historical use of the pier as a ferry terminal, fill material of unknown origin, and former port activities are PCAs contributing to this APEC.

**Pier 7 – Police Marine Unit**
- APEC 3a: includes the exterior land portion of the Hamilton Marine Police Unit facility. Fill materials of unknown quality and former port activities are PCAs contributing to this APEC.
- APEC 3b: includes the Hamilton Marine Police Unit Building. An above ground storage tank used for heating fuel, fill material of unknown quality and former port activities are PCAs contributing to this APEC.
- APEC 3c: includes the Hamilton Marine Police Unit Building. An underground storage tank used for fuel, fill material of unknown quality and former port activities are PCAs contributing to this APEC.

**Pier 8 – 65 Guise Street (Brewer’s Marine Supply property)**
- APEC 4a: includes the building footprint and exterior land. A historical power plant was identified as having existed at this property. This property also was the site of a Laidlaw trucking depot. PCAs contributing to this APEC are the presence of a former power plant, truck terminal, presence of fill of unknown quality, former use of the site for port activities, and present day use of the site for warehousing that includes storage of small quantities of chemicals.
- APEC 4b: includes the former fuel storage area located north of the building. Removal of the tanks is suspected, but not confirmed. PCAs contributing to this APEC are the former storage of petroleum fuels in tanks, presence of fill of unknown quality, and former use of the site for port activities.
- APEC 4c: includes the approximate area of a former airplane hangar that was located on the west end of the site, and the associated fuel storage tank that was indicated in the 1947 fire insurance plan. It is unknown if the tank had been removed. PCAs contributing to this APEC are the former activities associated with the airplane hangar and storage of petroleum fuels in a tank, presence of fill of unknown quality, and former use of the site for port activities.

**Pier 8 – Oil Pipeline**
- APEC 5: an Imperial Oil/Sun Canadian pipeline corridor traverses Pier 8 starting in the northwest portion, and leaves the site near the southeast corner, and is identified as a PCA.
**Pier 8 – Hamilton Port Authority Open Boat Storage/Shed 4**

- APEC 6a: encompasses the land portion of the Hamilton Port Authority open boat storage surrounding Shed 4. Former use of the site as a truck terminal and maintenance yard (Laidlaw), fill material of unknown origin, and former port activities are PCAs contributing to this APEC.
- APEC 6b: encompasses the northern portion of the Hamilton Port Authority Shed 4 (historical Laidlaw truck garage). Former use of the site as a vehicle garage, fill material of unknown origin, and former port activities are PCAs contributing to this APEC.

**Pier 8 – Harbour Marine Services**

- APEC 7: Harbour Marine Services was identified as an APEC given that the site is used as a small service shop for boats and marine equipment. Site was also historically used as a Canadian Coast Guard facility. PCAs contributing to this APEC include use of the site as a maintenance garage, fill material of unknown origin and former port activities.

**Pier 8 – Hamilton Port Authority Shipyard/Shed 6**

- APEC 8a: encompasses the portion of Pier 8 that was most recently used as a shipyard, and includes Shed 6 and the vacant areas to the south and west. PCAs that contribute to this APEC include port activities, presence of fill of unknown quality and boat maintenance activities associated with the tug boat operations (Ocean Towing).
- APEC 8b: encompasses the NE corner of Shed 6 where an underground heating oil storage tank is present. The tank supplied fuel to a former oil-fired furnace in Shed 6 that has since been removed. PCAs that contribute to this APEC include a petroleum fuel storage tank, presence of fill of unknown quality and historical use of the area for port activities.
- APEC 8c: encompasses the south side of Shed 6 where an underground heating oil storage tank was/is once present. While the tank is suspected to have been removed, the status cannot be confirmed. The tank supplied fuel to a former oil-fired furnace that was located in the south office of Shed 6. PCAs that contribute to this APEC include the former presence of a petroleum fuel storage tank, presence of fill of unknown quality and historical use of the area for port activities.
- APEC 8d: encompasses the land area around pole-mounted transformers located west of Shed 6. PCAs that contribute to this APEC include the presence of electrical transformers, presence of fill of unknown quality and historical use of the area for port activities.

**Pier 8 – Construction Equipment Storage Yard**

- APEC 9: encompasses the portion of Pier 8 that is currently leased to Bermingham Foundation Solutions for use as a construction equipment yard. PCAs that contribute to this APEC include: storage of construction material and portable construction fuel storage tanks, port activities, and presence of fill of unknown quality.
Pier 8 – Hamilton Port Authority Shipyard/Shed 7

- APEC 10a: encompasses the area below and immediately surrounding Shed 7. The shed is currently used for boat storage, but historically was used as the main harbor garage. PCAs that contribute to this APEC include historical vehicle maintenance activities, port activities and, presence of fill of unknown quality.
- APEC 10b: encompasses the NE corner of Shed 7 where an underground heating oil or petroleum fuel storage tank is/was present. It is unknown if the tank was removed. PCAs that contribute to this APEC include a petroleum fuel storage tank, presence of fill of unknown quality and historical use of the area for port activities.

Pier 8 – Navy League

- APEC 11a: encompasses the footprint of the on-site building and surrounding land. PCAs that contribute to this APEC include presence of fill of unknown quality and historical use of the site for port activities.
- APEC 11b: encompasses the south side of the on-site building, in the area where a furnace above-ground oil storage tank had been located (and since removed). PCAs that contribute to this APEC include the former presence of a petroleum fuel storage tank, presence of fill of unknown quality and historical use of the area for port activities.
- APEC 11c: encompasses the workshop and surrounding area. This area has been used for occasional maintenance activities on small boats, including storage of small quantities of associated chemicals. PCAs that contribute to this APEC include boat maintenance activities, presence of fill of unknown quality and historical use of the area for port activities.
- APEC 11d: the south and east boundary of Pier 8 was identified as an APEC due to a former landfill located off-site, and downgradient to the southeast. PCAs that contribute to this APEC include the potential migration of contaminated groundwater from the landfill to the site, presence of fill of unknown quality and historical use of the area for port activities.

Bayview Park

- APEC 12: encompasses the entire park. A former glass-making facility (Burlington Glass Works) was present on this site prior to 1900.

Site interviews and site reconnaissance visits were conducted and information gathered during that portion of the project that supported the identification of the various site APECs and PCAs.

A Phase One conceptual site model has been developed based upon the findings of the Phase One ESA and is presented as Figures 5, 6 and 7.

Based upon the findings of the Phase One ESA, a Phase Two ESA is required for the Phase One property before an RSC can be filed.
Introduction

Dillon Consulting Limited (Dillon) was retained by Hamilton Waterfront Trust (HWT) to complete a Phase One Environmental Site Assessment (ESA) in accordance with O.Reg. 153/04 for the properties located at Piers 5 to 8 in the west harbour of the City of Hamilton, and at Bayview Park at 52 Burlington Street, in Hamilton, Ontario. Collectively, these properties comprise the study area, and will herein be referred to as the ‘site’.

2.1 Phase One Property Information

Piers 5 to 8 are located in the City of Hamilton and comprise part of the west harbour. The properties are bound to the south by Guise Street, Bay Street North and Leander Drive, to the north by the Hamilton Harbour, to the east by Catharine Street North, the Waterfront Trail and the Hamilton Harbour, and to the west by Pier 4. Bayview Park, also part of the Phase One ESA, is located at 52 Burlington Street, on the south side of Guise Street, across from Pier 5 and the Royal Hamilton Yacht Club facility. The property is bound by Guise Street to the north, McNab Street to the east, Burlington Street to the south, and private residences on the west, followed by Wood Street West. Figure 1 presents a location map that shows that the site is located within the City of Hamilton in an area developed with mixed uses (residential, commercial, parkland, industrial).

The relevant property information for the site is provided below (obtained from the City of Hamilton, Hamilton Waterfront Trust and Geowarehouse):

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## Phase One Property Information

### Piers 5 to 8

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<tr>
<td>Survey</td>
<td>41 Registered Plan 127, Sir A.N. MacNab Survey; All of Lots 1, 2 and 3, J. Hughson Survey (Unregistered); and All of Lot 13 N. Hughson Survey (Unregistered) in the Geographic Township of Barton, City of Hamilton, Regional Municipality of Hamilton-Wentworth.</td>
</tr>
<tr>
<td>Property Owner(s)</td>
<td>Her Majesty the Queen in Right of Canada, The Corporation of the City of Hamilton</td>
</tr>
<tr>
<td>Property Owner Contact Details</td>
<td>47 Discovery Drive, Hamilton, ON, L8L 8K4 Tel: (905) 523-4498</td>
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| Approximate Area and Dimensions of Property                                 | Figure 1 presents the property limits and the boundaries of the individual Piers within the site. The approximate dimensions and areas of the individual Piers are as follows:  
  - Pier 5 – 2.09 hectares; 236 x 144 m  
  - Pier 6 – 1.42 hectares; 144 x 111 m  
  - Pier 7 – 1.02 hectares; 107 x 118 m  
  - Pier 8 – 12.57 hectares; 334 x 324 m  
Total Site Area – 15.01 hectares                                                |

### Bayview Park

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<tbody>
<tr>
<td>Property Name</td>
<td>Bayview Park</td>
</tr>
<tr>
<td>Municipal Address</td>
<td>52 Burlington Street West, Hamilton, ON</td>
</tr>
<tr>
<td>Property Identification Numbers (PINs)</td>
<td>171540017</td>
</tr>
<tr>
<td>Included in the study area</td>
<td>Lots 1-5, 12-14 Block 12 Part Lot 127; Part Lot 6 Block 12 Part Lot 127 as in HA302193 except VM128787; City of Hamilton.</td>
</tr>
<tr>
<td>Legal Description (from Geowarehouse record)</td>
<td>The Corporation of the City of Hamilton</td>
</tr>
<tr>
<td>Approximate Area and Dimensions of Property</td>
<td>0.46 hectares; 64 x 76 m</td>
</tr>
</tbody>
</table>

*Figure 1* presents the lands comprising the site, the 250 m buffer study areas, and includes the individual pier boundaries. The site is currently being used by the following owners, leaseholders, or sublease holders: City of Hamilton parks and waterfront lands; Royal Hamilton Yacht Club on Pier 5; Hamilton Port Authority (marina and boat storage areas on Piers 6 to 8); commercial areas on Pier 8 occupied by Brewers Marine Supply, Harbour Marine Services, Ocean Ontario Towing Inc., and Longshoreman’s Association; Navy League of Canada; and Parks Canada/Hamilton Waterfront Trust on the west side of Pier 8 (includes commercial properties). In 2013, the Hamilton Port Authority lease for Piers 7 and 8 expired, and the City of Hamilton took over the operation of those properties. *Appendix A* presents a copy of the legal survey plan for Piers 5 to 8. A survey plan for Bayview Park was not available to Dillon at the time this report was written.
2.2 Key Regulatory Definition

The following are Ontario key regulatory definitions used throughout this report.

**Defined by the Environmental Protection Act (EPA)**

**Contaminant** – any solid, liquid, gas, odour, heat, sound, vibration, radiation or combination of any of them resulting directly or indirectly from human activities that causes or may cause an adverse effect.

**Defined by Ontario Regulation 153/04 (as amended) under the EPA**

**Areas of Potential Environmental Concern (APECs)** – “the area on, in or under a phase one property where one or more contaminants are potentially present, as determined through the phase one environmental site assessment, including through: (a) identification of past or present uses on, in or under the phase one property, and (b) identification of a potentially contaminating activity”.

**Contaminants of concern (COC)** – “means: (a) one or more contaminants found on, in or under a property at a concentration that exceeds the applicable site condition standards for the property, or (b) one or more contaminants found on, in or under a property for which no applicable site condition standard is prescribed under Part IX (Site Condition Standards and Risk Assessment) and which are associated with potentially contaminating activity”.

**First Developed Use** – “the earlier of: (a) 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, and (b) the first potentially contaminating use or activity on the phase one property”.

**Phase One Property** – “the property that is the subject of a phase one environmental site assessment (for simplicity, Dillon uses the term “site” in this report, and it usually refers to both Piers 5 to 8 and Bayview Park)”.

**Phase One Study Area** – “the area that includes a phase one property, any other property that is located, wholly or partly, within 250 metres from the nearest point on a boundary of the phase one property and any property that the qualified person determines should be included as a part of the phase one study area under clause 3 (1) (a) of Schedule D of the Regulation”.

**Potentially Contaminating Activity (PCA)** – “a use or activity set out in Column A of Table 2 of Schedule D that is occurring or has occurred in a phase one study area”.

2.3 Disclaimer

This report was prepared by Dillon Consulting Limited (Dillon) for the sole benefit of Hamilton Waterfront Trust. The material in this report reflects Dillon’s judgment in light of the information available at the time of preparation. Any use which a third party makes of this report, or any reliance on or decisions made based on it, are the responsibility of such third parties. Dillon accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.
3.0 Scope of Investigation

The objective of the Phase One ESA was to determine whether the site has, or may be, affected by contaminant(s) of potential environmental concern.

To fulfill the objective of the Phase One ESA, the following scope of work, as defined by Schedule D of O.Reg. 153/04, was completed:

- Review of historical and current records that were reasonably attainable for the site and Phase One Study Area (250 m radius from site boundary);
- A site visit to interview persons knowledgeable with respect to the past and current uses of the properties comprising the site;
- Site reconnaissance to observe the Phase One Study Area; and
- Evaluation of the findings and reporting.

3.1 Impediments and Limiting Conditions

There were no physical impediments or denial of access to parts of the site that precluded meeting the objectives of the Phase One ESA. Reporting of identified impediments is required per O.Reg. 153/04 s.27.

There were no physical impediments or limiting conditions encountered when conducting the Phase One ESA.

This report is subject to the limitations presented in Section 10. It is also noted that the Phase One ESA did not include sample collection, analysis or measurements, and was not intended to be a definitive investigation of contamination or other environmental concerns at the site.
4.0 Records Review

4.1 General

4.1.1 Phase One Study Area Determination

The Phase One Study Area includes the site and land located wholly or in part within 250 metres of the site boundary of each of the Pier areas and Bayview Park. The area that this encompasses is presented in Figure 1. The Legal survey for Piers 5 to 8 is presented in Appendix A. At the time of writing of this report, there was no legal survey available for the Bayview Park property.

The subject property of Piers 5 to 8 is used for a variety of purposes including as a marina, boat yard, cargo storage/shipping facility, construction equipment yard, restaurant and recreational area, commercial area (boat maintenance and boat equipment hardware supply) and community use (sea cadets), and is surrounded by various land uses (i.e., residential, commercial, and parkland). A 250 m perimeter around the subject site was deemed sufficient to define the study area.

Bayview Park is located at 52 Burlington Street West, south of Pier 5, on the south side of Guise Street. The property is currently surrounded by mixed land use, including residential and commercial. A 250 m area around the property was included in the study area.

Properties located adjacent to the site include:

### Piers 5 to 8

<table>
<thead>
<tr>
<th>Direction from Site</th>
<th>Description of Property</th>
<th>Land Use Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>North</td>
<td>Lake Ontario/Hamilton Harbour</td>
<td>Public/private marina, recreational use</td>
</tr>
<tr>
<td>West</td>
<td>Parkland</td>
<td>Public park, walking trails, natural recreational area</td>
</tr>
<tr>
<td>South</td>
<td>Guise Street West, Private residences, apartment buildings, commercial businesses</td>
<td>Municipal, residential, commercial</td>
</tr>
<tr>
<td>East</td>
<td>Lake Ontario, Hamilton Harbour, followed by national defense facility</td>
<td>Industrial/Commercial/Community Land use</td>
</tr>
</tbody>
</table>

### Bayview Park

<table>
<thead>
<tr>
<th>Direction from Site</th>
<th>Description of Property</th>
<th>Land Use Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>North</td>
<td>Guise Street West, followed by Royal Hamilton Yacht Club</td>
<td>Municipal, commercial land use</td>
</tr>
<tr>
<td>West</td>
<td>Private residences</td>
<td>Residential</td>
</tr>
</tbody>
</table>
Direction from Site | Description of Property | Land Use Type
--- | --- | ---
South | Burlington Street West, followed by private residences | Municipal, residential
East | MacNab Street North, followed by private residences (apartment building) | Municipal, residential

Surrounding land use is shown in Figure 2.

### 4.1.2 First Developed Use Determination

The first developed use determination for Piers 5 to 8 and Bayview Park, was obtained through review of a variety of information sources including: City Directory search completed by EcoLog ERIS in March, 2013, chain of title documents provided by the Client, and from historical information including aerial photographs, survey plans, Fire Insurance Plans and city landscape “Bird’s Eye View” drawings relating to the property. Historical use information was also gleaned from the heritage impact assessment study (MHBC, 2013) and the archeological study (Fisher, 2013) that was completed for the area.

City Directory searches were conducted for 18 municipal addresses that comprise the Pier 5 through 8 property. The years searched included 2011, 2005/2006, 2000/2001, 1995/1996, 1990, 1985, 1980, 1975, 1970, 1965 and 1961. A review of Fire Insurance Plans from 1898, 1911, 1947 and 1964 showed various buildings and warehouses on the site, some of which are currently present. A map of the bay and harbor area from 1836 (Plate 1, Appendix D), shows shipping wharfs in the same area as portions of Piers 5 to 8. MHBC (2013) states that development of the north end of Hamilton (which includes the study area), accelerated following the construction of a canal connecting Burlington Bay with Lake Ontario in 1832. Shipping access to Lake Ontario resulted in the construction of a large steamboat wharf at the foot of James Street, as well as smaller wharves along the shoreline. Associated with these wharves were storehouses, barns and boathouses. Historical information also shows that, between the 1830s and 1960s, the property expanded into the harbor as a result of land reclamation activities.

A City Directory search on 52 Burlington Street West (Bayview Park) was conducted for the years 2011, 2005/2006, 2000/2001, 1995/1996, 1991, 1986, 1981, 1976, 1971, 1966, 1961, 1956, and 1951. The search returned no listings between 1951 and 2011. Fire Insurance plans (1898, 1911, 1947 and 1964) show the Bayview Park property as being vacant and, therefore, the property was likely used as open land and/or for recreational purposes as early as 1911. Bird’s Eye View drawings of the study area, circa 1876 and 1898, show a factory located at the site. Historical records, as well as a plaque at the current-day park, indicate that a glass factory (Burlington Glass Works) once existed on the property. The factory was reportedly established in 1874, and operated until 1897. No further information was available for this site.

Based on the available information, the date of the first developed land use is known to be prior to the 1830s for Piers 5 to 8 (or portions of), and prior to 1874 for Bayview Park.
The result of the City Directory or Parcel Registry search is provided in Appendix B. The aerial photographs are provided in Appendix C. Historical mapping and/or photographs showing the development of the study area between 1836 and 1972 are presented in Appendix D.

### 4.1.3 Fire Insurance Plans and other Historical Figures

This section summarizes information obtained from the review of Fire Insurance Plans and other historical documents that show previous land uses on the property.

In correspondence dated March 13, 2013, Opta Environmental Services indicated that they had FIPs for 1947 and 1964 on record for Piers 5 to 8. These were requested at that time and were included in the previous Records Review Report, and cover Bayview Park as well. In February 2015, additional Fire Insurance Plans were obtained from the McMaster University digital archives for the years 1898 and 1911. Other historic documents were received and referenced for this Phase One ESA and include archived photos provided by Hamilton Waterfront Trust, as well as an archaeological report prepared by Fisher Archaeological Consulting, 2013. Fire Insurance Plans, photographs and figure excerpts from the Fisher, 2013 report are included in Appendix D.

Historic data is summarized below in general chronological order:

**1836 Survey Map (Plate 1, Appendix D)**
- Shows three wharves in the study area, including McNab wharf, Gunn’s wharf and Hughson wharf. McNab wharf appears to be located in the present location of the Pier 5 RHYC building and front lawn. Gunn’s wharf is in the general vicinity of the current day James St. Pier, while Hughson wharf is in a location within the current extents of Pier 8.
- No buildings are shown on the map; however, the Bayview Park property has been subdivided into lots.

**1842 Survey Map (Plate 2, Appendix D)**
- Same three wharves displayed in the 1836 map area are shown; however, a fourth wharf is indicated in the current location of the eastern portion of Pier 8. Buildings are shown on all four wharves.
- Three buildings are shown in the Bayview Park property, and the words “Barracks” are written on the map in this area.

**1846 Survey Map (Plate 3, Appendix D)**
- The four wharves shown on the 1842 map are displayed.
- No buildings are shown on the map; however, the Bayview Park property has been subdivided into lots.

**1850 Survey Map (Plate 4, Appendix D)**
- Same four wharves shown in 1846 map are indicated; however, the wharves have increased in size and two new wharves are shown. The wharf located at present day Pier 5 is labeled Browne’s wharf, the wharf located at present day Pier 6 north of the Hamilton Port Authority Maintenance Building is called Land & Routh’s wharf, the wharf located at current James St Pier is called Pherson & Cranes wharf. Two wharves are shown east of the James Street pier, and are referred to as Browne’s wharves. The
sixth wharf is at the east end of present day Pier 8 and is called Valeherd wharf. The map shows that shore infilling has occurred between the wharves.

- Several buildings are shown on individual lots in the vicinity of the Bayview Park property.

1875 Atlas Map (Plate 5, Appendix D)

- Outline of shore is interpreted to be similar to that shown on the 1850 Map with the exception of the eastern wharf (at present day east end of Pier 8), which appears to have been extended.
- For the Bayview Park property, no additional information is shown.

1876 “Birds Eye View” Drawing (Plate 6, Appendix D)

- The sketch shows the City of Hamilton as viewed from the north. The majority of the current site is shown, reaching from Bay Street to the west, South to Picton Street, and east to Catharine Street.
- The shoreline at that time is largely developed, with several boat houses and wooden docks present. Some structures appear to be private dwellings.
- The lot currently known as Bayview Park is occupied by what has been reported as being a glass factory, and is surrounded by occasional private dwellings.
- South of the site, most of the buildings beyond the site, but within the study area, appear to be private homes, with occasional commercial buildings listed as City Hall, Post Office, Court House and Jail, City Hospital, various Churches, etc.

1898 “Birds Eye View” Drawing (Plate 7, Appendix D)

- The sketch shows the City of Hamilton as viewed from the north. All of the study area is shown.
- The shoreline is fully developed with warehouses and boathouses. Some structures appear to be private dwellings.
- A large factory or power house is shown at the foot of Hughson Street (in vicinity of current day Brewer’s property). A large warehouse is present at the east end of present day Pier 8.
- The lot currently known as Bayview Park is occupied by what has been reported as being a glass factory, and is surrounded by occasional private dwellings.
- Most of the buildings beyond the site, but within the study area, appear to be private homes, with occasional commercial buildings listed as City Hall, Post Office, Court House and Jail, City Hospital, various Churches, etc.

1898 FIP:

- The sheet covers the area between James Street North and the lot where the Royal Hamilton Yacht Club now resides, south to Brock Street West.
- Several coal sheds are present west of James Street near the shoreline as it existed at the time.
- The James Street Pier was occupied by a ‘General’ and a ‘Bonded’ Warehouse.
- There are ‘General’ warehouses on both Piers to the west of the James Street Pier.
- No fuel tanks were identified on this portion of the plan.
- Bayview Park was not visible on this plan.
1909 “Birds Eye View” Drawing (Plate 8, Appendix D)
- The sketch shows mainly the site east of current day Discovery Drive, as viewed from the north.
- A large 5 storey industrial building and chimney with several other smaller buildings is located at the foot of the escarpment south of Hughson Street, in the current location of the Brewer property. A trolley is located along Guise Street with tracks running between James Street and John Street.
- A large park is located east of the current day Pier 8 area

1911 FIPs:
- The FIP covers most of the current site from the west where the Royal Hamilton Yacht Club currently exists (Pier 5), south to Burlington Street, west to Mary Street.
- Many of the coal sheds have been removed from the area near the Yacht club.
- The warehouse is still present on the James Street Pier, and the warehouse on the western pier has been expanded. The warehouse does not appear to be present on the central pier as noted in 1898.
- On the portion of land now known as Pier 6, Pier 7 and part of Pier 8, several buildings are present including a ‘Landing Shed’, ‘Freight Shed’, the ‘Hamilton Rowing Club’ building and ‘Municipal Storage’. A chimney associated with the building occupied by the rowing club is shown on the plan. Note that historical information on the Hamilton Rowing club indicates that between 1907 and 1925, the club was located in the former Power House, which is interpreted to have been a former use of the building at this location.
- Several private dwellings appear to be present, as well as boathouses north of John Street.
- The east portion of the site (south of Brock Street) is occupied mainly by private dwellings.
- There appears to be an institutional building, possibly a ‘House of Reform’ (hospital) located in the block bounded by Guise, John, Brock and Catharine Streets.
- What appear to be warehouses and industrial facilities exist on the Pier north of Catharine Street (current-day Pier 8, not yet in-filled).
- No fuel tanks were identified on the 1911 FIP.
- Bayview Park is partially visible on the plan, and appears to be vacant.

1926 Hamilton Harbour Canadian Hydrographic map (Plate 9, Appendix D)
- Drawing shows the general outline of the shoreline. Buildings appear to be present at the east end of current day Pier 8.
- A large building with a chimney is present at the foot of Hughson Street (present day Brewer’s property). James St. Pier is labeled “Canada Steamship Lines”, and the east end of current day Pier 8 as “Harbour Commissioners Dock” A building is present in the area north of the current RHYC building, and is interpreted to be the former RHYC building.

1938 Topographic map (Plate 10, Appendix D)
- Map is similar to the 1926 map; however shoreline appears to have extended further into harbour in the vicinity of current day Pier 8.
- Royal Hamilton Yacht Club is labeled on the map.
The land south and east of current day Pier 8 is labeled Hospital Park, and several large buildings associated with the former City Hospital are shown. No buildings are shown on the Bayview Park property.

1947 FIPs on site:

- The site was operated as a marina and boat yard in 1947. A property owned by ‘Russell Construction Company’ appeared to be present on Pier 8, as well as ‘Chemical Extinguisher’ Storage per Hamilton Harbour Commissioners, just north of Guise Street East.
- Based on the plans available, Pier 8 did not appear to be constructed to the full extent of the current shoreline on the northern and western edges of the property.
- A boathouse and electrical repair building was described at the Hamilton Harbour commissioners Marine Dock Yard on Pier 6, and the Royal Hamilton Yacht Club building is identified on Pier 5.
- Structures interpreted to be two fuel storage tanks were located: (1) on the site at the northwest corner of James Street North and Guise Street West, east of the boathouse and repair shop, and (2) north of the intersection of Guise Street and Hughson Street North, just north of a hangar building for Hamilton Sky Harbour. The building formerly believed to have been a power house is not present.
- The Bayview Park property appears to be vacant in 1947.

1947 FIPs off site:

- A machine shop was present on the 1947 plan, south of the site, on the north side of Brock Street between Hughson Street and John Street.
- To the southeast of the site and outside of the study area, the 1947 FIP shows property owned by the ‘Supertest Petroleum Corporation Limited’ on the southeast corner of Burlington and Wellington Streets. Tanks identified on the property were: two bulk vertical ASTs with capacities of 77,500 and 168,000 gallons; and, four horizontal oil tanks with capacities of 15,000 gallons each.
- The 1947 FIP also shows property owned by Imperial Oil Limited, on the northwest corner of Burlington Street and Victoria Avenue with three significant vertical bulk ASTs with unknown capacities, six smaller vertical ASTs with unknown capacities, and various buildings.
- Directly north of the Imperial Oil site was a charcoal supply company, and to the northwest, there was a property listed as ‘Super Oil Seal Manufacturing Company’ with ‘oil storage’ indicated on the east arm of the building. These properties are outside the Study Area, but due to the bulk storage of fuels, they are considered noteworthy.
- The major land use south of the subject property is residential and commercial.
- Private residences are present to the west of Bayview Park; Burlington Street is to the south, Guise Street East to the north, McNab Street to the west. On the east side of McNab Street, a Children’s Aid Society Shelter was present.
- To the north of Bayview Park across Guise Street was the Royal Hamilton Yacht Club (on Pier 5).

1 Volume interpreted from unclear FIP. Capacity of tank could be 68,000 gallons.
1952 Hamilton Harbour Canadian Hydrographic map (Plate 11, Appendix D)
- Shoreline appears similar to the 1926 map. The map labels the Marine Police Patrol building located at the foot of Hughson Street, as well as Harbour Commission at the east end of current day Pier 8.
- The large area south and east of current day Pier 8 is labeled as Eastwood Park
- No buildings are shown on the Bayview Park property

Photographs circa 1952, 1954 (Plate 12 to 15, Appendix D)
- Shoreline appears similar to current conditions with the exception of Pier 8 which has not yet been extended.
- Shows many of the current-day structures, including the Junior Sailor Club Building on Pier 5; the Hamilton Port Authority Building, Heated Storage Building, and James Street Pier on Pier 6, the Hamilton Marine Police Unit on Pier 7, and the Navy League and Shed 7 on Pier 8.
- Buildings shown that are no longer present include the former RHYC Building on Pier 5, a storage shed on the south side of Pier 6, airplane hangar building and other structures on Pier 8 in the vicinity of the present day Brewer’s property, and an unknown garage-like structure west of the airplane hangar building. What appear to be houses are located along the south side of Guise Street.
- Bayview Park is vacant, save for one small structure on the north side.

1959 Hamilton Harbour Canadian Hydrographic map (Plate 16, Appendix D)
- Shoreline appears similar to the 1952 map. Eastwood Park, located east of current day Pier 8 has been reduced in size, and H.M.C.S Star is labeled.
- No buildings are shown on the Bayview Park property.

1964 FIPs on site:
- The site was operated as a marina and boat yard in 1964. There was a building leased by Dominion Glass Company Limited (current day Shed 7) along the eastern edge of Pier 8. The building has a north extension that is no longer present on Shed 7.
- A boathouse and electrical repair building was described at the Hamilton Harbour commissioners Marine Dock Yard on Pier 6.
- A boathouse and office space (present day Marine Police Unit building) is shown on Pier 7. Another building, potentially the aircraft hangar building shown in the 1947 FIP, is shown east of the boathouse.
- Two 500 gallon USTs for fuel oil are shown to service the Hamilton Harbour Commissioners Warehouse Building (current day Shed 6) which was located in the northeast corner of Pier 8. The warehouse building appears to represent only the east half of the current Shed 6 building.
- A fuel oil UST (size unknown) was present on the west side of the Dominion Glass Company Limited Warehouse building (current day Shed 7) located on the east side of Pier 8.
- The Bayview Park property is designated a playground, with a small structure, presumably a lavatory, in the west corner.
1964 FIPs off site:

- South of the site (i.e., along Brock Street, Hughson Street and Burlington Street), various auto repair facilities, machine shops, and a plumbing supply warehouse were present. On the northeast corner of Burlington and James Street, an auto body service building was present, with what appears to be an AST on the west side of the facility.
- The major land use south of the subject property was residential and commercial.
- Private residences surround a majority of Bayview Park, with the Children’s Aid Society to the east, and Hamilton Harbour (Pier 5) to the north.

Photograph circa 1969 (Plate 17, Appendix D)

- Photograph shows shoreline to have an extent similar to current conditions. Pier 8 has been fully constructed.
- Shed 6 and 7, and the Navy League Building on Pier 8 are shown; however, the remaining part of Pier 8 east of current day Discovery Drive, appears vacant.

1972 Hamilton Harbour Canadian Hydrographic map (Plate 18, Appendix D)

- Shoreline appears similar to current conditions. Marine Police Unit Building, Shed 6, Shed 7 and the Navy League Building are shown. Also shown are the former RHYC Building, and the Hamilton Port Authority Maintenance Building. Another building is shown directly south of the maintenance building.
- No buildings are shown on the Bayview Park property.

### 4.1.4 Chain of Title & City Directories

Dillon obtained chain of title or parcel register documents for Piers 7 and 8 only. No records for Piers 5 to 6, or Bayview Park were received at the time of compiling this report. Copies of the registry documents are included in Appendix B.

<table>
<thead>
<tr>
<th>Piers 7 and 8</th>
<th>Owner</th>
<th>Dates of Ownership</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Corporation of the City of Hamilton</td>
<td></td>
<td>December 31, 1930 to current</td>
</tr>
<tr>
<td>Leased by the Royal Hamilton Yacht Club</td>
<td></td>
<td>December 13, 1976 to December 15, 1982</td>
</tr>
<tr>
<td>Leased by the Hamilton Yacht Club</td>
<td></td>
<td>June 1, 1984 to ??</td>
</tr>
<tr>
<td>Easement transfers to the Regional Municipality of Hamilton-Wentworth (Portions unknown)</td>
<td></td>
<td>May 21, 1992, and July 13, 1994</td>
</tr>
<tr>
<td>Leased by Macassa Bay Yacht Club</td>
<td></td>
<td>October 9, 1997 to ?</td>
</tr>
<tr>
<td>Easement Transfer to the Hamilton Harbour Commissioners</td>
<td></td>
<td>March 19, 1991</td>
</tr>
<tr>
<td>Imperial Oil (from The Hamilton Harbour Commissioners)</td>
<td></td>
<td>May 14, 1998</td>
</tr>
</tbody>
</table>

City Directories


<table>
<thead>
<tr>
<th>Piers 5 to 8</th>
<th>Listing Summary (Year – Listing)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td></td>
</tr>
</tbody>
</table>
| 555 Bay Street North | - 2011 - Royal Hamilton Yacht Club, Chamber of Commerce, Waterfront Banquet & Conference Centre  
                     - 1995/1996 - Chamber of Commerce, Royal Hamilton Yacht Club  
                     - 1990, 1985 - Chamber of Commerce  
                     - 1961-1980 - Address not listed |
| 595 Catherine St N | - 2005/2006, 2011 - No return  
                     - 2000/2001 - Sea Cadets  
                     - 1961-1996 - Address not listed |
| 659 Catherine St N | - 1961-2011 - Address Not Listed |
| 695 Catherine St N | - 2011 - ILA Local 1654, Ocean ON. Towing Group  
                     - 2005/2006 - Allied Marine & Industrial  
                     - 1961-2001 - Address Not Listed |
| 17 Discovery Drive | - 1961-2011 - Address Not Listed |
| 47 Discovery Drive | - 2011 - Multi Tenant Office  
                     - 1961-2006 - Address Not Listed |
| 57 Discovery Drive | - 2011 - Parks Canada Discovery Centre  
                     - 1961-2006 - Address Not Listed |
| 9 Guise St E | - 1961-2011 - Address Not Listed |
| 17 Guise St E | - 1961-2011 - Address Not Listed |
| 31 Guise St E | - 1961-2011 - Address Not Listed |
| 33 Guise St E | - 1961-2011 - Address Not Listed |
| 47 Guise St E | - 2011 - Address Not Listed  
                     - 2005/2006 - Hamilton Waterfront Trust  
                     - 1961-2001 - Address Not Listed |
| 57 Guise St E | - 2011 - Canada Marine Discovery Centre  
                     - 1961-2006 - Address Not Listed |
| 65 Guise St E | - 2011 - Brewer’s Marine Supplies  
                     - 1961-1975 - Address Not Listed |
| 1 Guise St West | - 2011 - North 44 Marine Sales  
                     - 1961-2006 - Address Not Listed |
| 17 Guise St West | - 1961-2011 - Address Not Listed |
| 607 James St North | - 1961-2011 - Address Not Listed |
| 50 Leander Drive | - 1961-2011 - Address Not Listed |
| Off-site Civic Address | Listing Summary |
| 650 St. Catharine Street N. | - 1961-2011 - Address Not Listed |
| 658 St. Catharine Street N. | - 1961-2011 - Address Not Listed |
4.1.5 Environmental Reports

The City of Hamilton, Hamilton Port Authority, and Hamilton Waterfront Trust provided the following environmental reports that were reviewed, as summarized below. Information considered relevant to the current Study Area and the Records Review scope of work was included in the summary for each report.

4.1.5.1 City of Hamilton Files


The report contained the following information:

- The investigation was conducted to assess soil stratigraphy and groundwater levels along a proposed sewer alignment.
- Three main soil strata were defined as sandy silt to silty fine sand, overlying a lacustrine clayey to sandy silt, which was underlain by very soft to firm silty clay. There was a suspected old filled drainage channel in the area east and south of the intersection of Burlington and Mary Streets, which contained a very soft and organic saturated material, including peat.
- Groundwater was found between 1.2 mbgs and 3.0 mbgs.


The report contained the following information:

- The investigation was conducted to assess groundwater conditions and subsurface soils to provide engineering guidelines for the geotechnical design of the proposed underground storage tank construction. The sewage storage tank was to be set at 6.0 mbgs.
- Five soil samples (one per borehole) were collected from the fill material and upper layer of native material. Samples were analysed for metals, pH, electrical conductivity, SAR, nitrogen (percent), oil and grease (percent), and sulphate. pH levels (8.4 to 9.0) exceeded the MOE commercial/industrial Standards of 6 to 8. It was noted that the pH reflects slightly alkaline soil conditions and the levels are not considered significant as they generally fall within regional background levels.

The report contained the following information:

- The investigation was conducted to assess the subsurface and groundwater conditions along the alignment of a proposed sewer for the Discovery Centre to be constructed at Pier 8.
- Two soil samples recovered from each of the four boreholes were submitted to the laboratory for physical and inorganic parameters. Concentrations were compared to the MOE Table F Standards to establish whether soil could be managed as “inert” fill. In three of four soil samples collected from 1.5 mbgs to 2.1 mbgs, concentrations of one or more of electrical conductivity, SAR, antimony, lead, molybdenum, selenium, zinc were above the MOE Table F Standards. In two of four soil samples collected from 6.9 mbgs to 7.5 mbgs, concentrations of one or both of electrical conductivity and lead were above the MOE Table F Standards.
- It was noted that some of the excavated soil would probably not conform to the Table F Standards and should not be managed as inert fill.
- Depth to groundwater was measured between 1.5 mbgs and 2.5 mbgs.


The report contained the following information:

- The investigation was conducted to assess the shallow soil quality and to provide guidance for management of excess material for a proposed water main installation and road reconstruction project. The Study Area included Guise Street.
- Eight boreholes were drilled along Guise Street, two boreholes were drilled on the north end of Bay Street North, and two boreholes were drilled on Harbour Patrol Access Road. Boreholes were advanced to between 2.9 mbgs and 3.6 mbgs
- Soils were generally below the MOE Table B Standards for industrial/commercial land use and coarse grained soils, with the exception of samples collected in five areas (results in this report also included reference to previous environmental report findings):
  - PHC and salt-related contamination in the surficial fill and granular sub-base along Guise Street between Bay Street North and west of James Street, generally between 0 mbgs and 0.6 mbgs.
  - Metals and salt-related contamination in deeper fill along Guise Street in the vicinity of James Street to Hughson Street, generally in subsurface material deeper than 1.7 mbgs.
  - Salt-related contamination in the surficial fill and granular sub-base along Guise Street between Harbour Patrol Access Road and east of John Street, generally between 0 mbgs and 1.2 mbgs.
  - Metals and salt-related contamination in lakefill material along Catharine Street, generally in subsurface material deeper than 3.0 mbgs.
Localized metals contamination and rubble/debris in the lakefill material along Harbour Patrol Access Road. The poor quality/contaminated lakefill was estimated to extend from surface up to 7.0 mbgs.

- It was recommended that excavated materials exceeding the MOE Table B Standards should be disposed of at a licensed landfill or treatment facility. These materials were qualified as solid non-hazardous waste under Ontario Regulation 558. Soil exceeding the MOE Table F Standards, but below the MOE Table B Standards were recommended for re-use on-site or for disposal off-site at a licensed landfill or treatment facility.


The report contained the following information:

- The investigation was conducted to supplement existing subsurface information along Harbour Patrol Access.
- The alignments of two buried high pressure oil pipelines of 150 mm and 200 mm diametres intersect the road. Information was provided indicating there was approximately 1 m to 1.5 m of earth covering the pipelines.
- One borehole was advanced and two soil samples were submitted from the silty sandy fill; one for general inorganics and the other for O.Reg 558 leachate parameters. The silty sandy fill did not meet the MOE Table B Standards for zinc, or the Table F Standards for zinc and electrical conductivity. The concentrations of inorganic parameters tested were below the O.Reg. 347 leachate Standards.
- It was recommended that the fill should not be re-used on-site, and that it does not qualify as “inert fill”, but that it could be classified as a non-hazardous waste and be disposed of at a licensed landfill.

*Hamilton Waterfront Trust files*

*Peto MacCallum Ltd. 2009a. Geotechnical Investigation, Pier 8, Hamilton Harbour, Discovery Drive, Hamilton, ON. April, 2009.*

The report contained the following information:

- The investigation was conducted to assess subsurface soil and groundwater conditions, and provide geotechnical comments and recommendations for design/construction of the proposed development, which included construction of an outdoor ice rink, expansion of the existing Williams Coffee Pub, and a new commercial building south of the Discovery Centre.
- The field work consisted of drilling 20 boreholes to depths ranging between 2.1 mbgs and 5.2 mbgs. Stratigraphy was generally topsoil/fill over mixed fill. The fill was typically sandy silt or silty clay and contained layers of crushed limestone, slag, and foundry sand. Debris was also identified in the fill and included brick, concrete, coal, and bituminous gravel.
- Groundwater was observed at 1.2 mbgs to 3.7 mbgs (elevation 74.9 m to 78.4 m) at the time of the investigation, although it was noted that stabilized groundwater levels were expected to be consistent with water levels in the Hamilton Harbour (75.0 m).
- Environmental testing was reported under separate cover.
Peto MacCallum Ltd. 2009b. GeoEnvironmental Investigation, Pier 8, Hamilton Harbour, 47 Discovery Drive, Hamilton, ON. April, 2009.

The report contained the following information:

- The investigation was conducted to characterize soil within one to two metres of existing grade to provide re-use and disposal options for excess soil generated during construction. This work was done in conjunction with a geotechnical investigation reported under separate cover. It was understood that the fill material within one to two metres of the ground surface was to be removed to make way for the development of the Study Area.
- A summary of the findings from a previous SSRA and this GeoEnvironmental Investigation were also included in the Peto MacCallum Ltd. report entitled GeoEnvironmental Consultations (2009c). The Dillon summary is included under the Peto MacCallum Ltd. GeoEnvironmental Consultations (2009c) report heading for brevity.
- Groundwater sampling and testing was not conducted during the investigation.
- It was recommended that the soils in the areas that did not meet any of the MOE Table 1, Table 2 and Table 3 Standards be delineated to determine the extent of contamination to provide an estimated volume of soils requiring landfill disposal, and to assist with preparation of a soil management plan. The soils that did meet the MOE Table 2 and Table 3 Standards could be re-used at another Industrial/Commercial/Community property; however, there were several conditions and handling restrictions associated with the potential re-use of the material.


The report contained the following information:

- The report responded to MOE comments in a letter dated August 7, 2009. This letter was not available for Dillon’s review at the time this report was written.
- A previous SSRA conducted by XCG Consultants Limited prior to the early stages of redevelopment of Pier 8, dated February 14, 2003, was referenced by Peto MacCallum, but was not available for review by Dillon at the time this report was written. As referenced by Peto MacCallum, the SSRA indicated that no risks to human health or ecological health were present, with the exception of:
  - Lead via the ingestion and dermal exposure pathways; and
  - Benzo(a)pyrene and total carcinogenic PAHs through the ingestion and dermal exposure pathways (i.e., the risk calculated was greater than the maximum acceptable risk established by the MOE and/or a cancer risk of greater than one in a million).
- As a result, appropriate engineering control measures and a RMP were to be implemented during construction activities.
- A Peto MacCallum Ltd. report entitled Soil Sampling and Chemical Testing Program, Pier 8, Hamilton Harbour, dated July 6, 2009 was referenced in addition to those reviewed above (Peto MacCallum Ltd. 2009a and 2009b). The purpose of the
investigation was to further assess the chemical quality of surplus soil in the first phase of the development, to delineate contamination identified in the location of borehole E2 during the previous investigation (2009b) and to evaluate the feasibility of off-site disposal of surplus soil at the Hamilton Port Authority Pier 22 disposal site.

- Construction excavation for the proposed development was predicted to generate approximately 4,500 m³ of surplus fill. The construction schedule and off-site disposal was scheduled to occur in three phases.
- 20 boreholes and 10 test pits were completed at the site in February and May, 2009.
- Soil samples were analysed for one or more of: metals and inorganics, PHCs, VOCs, BNAEs and PCBs. Select samples were also analysed for TPH oil and grease, phosphorus, ammonia, TKN and TOC for potential disposal at Pier 22. Six soil samples were also analysed for the following leachate parameters: metals and inorganics, PCBs, SVOCs, ignitability, and VOCs.
- The site is considered to be sensitive as it is located within 30 m of Hamilton Harbour, and because the soil pH in one surface soil sample was greater than 9.
- The results of the February and May 2009 investigations indicated that the majority of soil samples analysed did not meet the MOE Table 1 Standards for All Other Types of property use. Parameters of metals and inorganics, BNAEs (including PAHs) and/or PHC fractions F3 and F4 were above the MOE Table 1 Standards. With the exception of EC (a physical non-health related parameter that was not considered a contaminant in the human health risk assessment), the concentrations of parameters analysed were below the concentrations used in the SSRA.
- Soil leachate parameters met the applicable leachate quality criteria and the material was classified as non-leachate toxic, nonhazardous waste.
- The SSRA was prepared based on design detail involving a minimum of 0.3m of clean fill placed over the entire property followed by surface treatment (grass, asphalt, buildings, etc.). Existing pavement was generally to remain intact with clean fill being placed directly on top of the asphalt. Based on information from the MOE and from borehole and test pit information, fill material placed on top of asphalt was surplus fill (i.e., not clean fill) and, as a result, the minimum design separation distance of 0.3 m between contaminated soil and park users appeared to not have been maintained. Exposure pathways for the green areas of the site were reviewed and the Hamilton Waterfront Trust planned to increase the 0.3 m cover by 0.15 m by placing 0.45 m of topsoil in the non-building areas to act as a clean fill cap. Rationale was provided by Peto MacCallum Ltd. to support the reasons this cap would be sufficient.
- The development of Pier 8 was not expected to encounter groundwater, and groundwater management was not expected to be required. It was noted that groundwater monitoring was being conducted under a separate assignment through the Parks Canada Discovery Centre.

4.1.5.3 Hamilton Port Authority Files


The report contained the following information:

- In 1911, a stone cribwork pier approximately 25 m wide and 80 m long was constructed in the current location of Pier 8. The current pier was constructed of
dredged soils between 1962 and 1967 and capped with approximately 1.5 m of construction fill that contained foundry sand, bricks, mortar, slag and coal. The fill materials, generally observed from ground surface to 12 mbgs, were identified as an APEC for Pier 8. Soil samples were analyzed for select parameters (metals, nitrogen, oil and grease and pH). Oil and grease concentrations in a surficial slag fill sample exceeded the MOE Guidelines applicable at the time the report was written. PH levels in the samples tested (8.4 to 10.0) also exceeded the MOE Guidelines.

- Three oil pipelines ran along the west dock face. Undetected leaks from the pipelines were identified as an APEC.
- Heating oil tanks were located adjacent to Shed 6 on the south and east walls, and a fuelling area was located on the north end of Shed 7. Spills from the tanks were identified as an APEC. Petroleum product was noted in the soil adjacent to a heating fuel tank during the intrusive investigation. Concentrations of BTEX and TPH were compared to Interim Soil Remediation Criteria for Assessment of Petroleum Contamination at Operating Commercial Sites, established by the Fuels Safety Branch of the MCCR. The soil sample with petroleum product had TPH concentrations that exceeded the moderate sensitivity criteria, but were below the low sensitivity criteria. Peto MacCallum indicated that the adjacent oil tank appeared to be leaking based on their findings.
- Pier 8 has been used for break-bulk overseas shipping. Materials handled on the site included steel, machinery, and bagged goods.
- Phosphate fertilizers were stored on-site from 1963 to 1987. Potential leaching of phosphates into the soil was considered to be an APEC. Soil samples analyzed for phosphate did not have detectable concentrations above the laboratory MDL. Based on the results it was noted that the phosphate storage did not likely affect the underlying soils.
- Oil was applied for dust control on the gravel surface of the western storage yard and was identified as an APEC. Two surface soil samples in the west storage yard were above the MCCR low sensitivity criteria for TPH, and a third surface soil sample from this area exceeded the moderate sensitivity criteria.
- Potential leaks of fuel, oil or grease from parked vehicles was also identified as an APEC.
- Nine boreholes were drilled. During the intrusive investigation the site stratigraphy was generally described as pavement overlying fill (various types including sand, sand and silt, sand and gravel, silt, clay and gravel) that contained construction and other debris. Depth to water was observed at 0.2 and 1.6 mbgs. Depth of investigation was generally to 3 mbgs.
- There was auger refusal at a depth of 0.6 m at one borehole location. Several attempts were made within 1.2 m of the original location, also with refusal at 0.6 m.
- Samples were analysed at the Peto MacCallum laboratory.


The report contained the following information:

- This investigation was conducted to assess changes at the site since the previous investigation, as the tenant on the east side of Pier 8 had terminated their lease.
- Soil samples for phytotoxicological parameters and TPH were analyzed by Fine Analysis Laboratories. One soil sample from 1.5 to 1.8 m bgs adjacent to the fuel oil tank had TPH concentrations above the MCCR moderate sensitivity criteria, similar to the previous investigation in 1993.
- Peto MacCallum concluded that the use of the east part of Pier 8 did not appear to have had an adverse impact on environmental quality between 1993 and 1995.


The report contained the following information:

- This investigation was conducted to assess changes at the site since the previous investigation in 1993, as the tenant on the west side of Pier 8 had terminated their lease.
- Soil samples for phytotoxicological parameters and TPH were analyzed by Fine Analysis Laboratories. A sulphurous odour was detected in the slag underlying the asphalt in one soil sample and a slight PHC odour was detected at 1.1 m bgs in silt fill that were not identified in the 1993 study. Concentrations of parameters analyzed were below the MOE Standards.
- Peto MacCallum concluded that the use of the west part of Pier 8 did not appear to have had an adverse impact on environmental quality between 1993 and 1996.


The full version of the report was received with MOE FOI documents for 17, 47 and 57 Discovery Drive. The summary of the report was complete in the 2013 Records Review report, and is included below:

- This investigation was conducted to assess the geo-environmental and geotechnical conditions at the site prior to potential development of a Heritage Centre/museum. A Phase One ESA and limited Phase Two ESA were conducted.
- The Phase One ESA APECS included:
  - Fill material;
  - Pipelines, including two oil pipelines that previously crossed the site, and three pipelines in operation in 2000 along the south and west sides of the site;
  - Urea and phosphate-type fertilizers stored on-site; and
  - A private fuel outlet operated approximately 200 m southeast of the site.
- Three boreholes, nine test holes and three monitoring wells were installed on-site.
- Summary and recommendations included:
  - Pipelines remained a potential environmental concern. It was recommended that information pertaining to the pipelines should be obtained from the pipeline owners.
  - Fill remained a potential environmental concern. Recommendations included determining planning requirements for the proposed redevelopment, formalizing site redevelopment scenarios, and conducting a screening level RA to assess the requirement for further subsurface data.
Subsurface conditions at the site were described as 7 m to 9 m of variable fill material overlying silty sand to sandy silt lake bed deposits. The lake bed deposits were underlain by stiff to very stiff silty clay deposits that extended to between 26 m to 30 m. The silty clay was underlain by weathered shale bedrock. Groundwater was observed at between 1.8 m and 2.0 m bgs.

A slag fill berm was installed during reclaiming of land for construction of Pier 8. The chemical quality of the slag fill berm could not be evaluated due to the presence of tie-back anchors in the berm area. Drilling refusal was encountered at approximately 0.8 m bgs in the area of the berm.

A soil sample was submitted for Ontario Regulation 347 leachate analysis, and the results indicated that the soil cuttings would be classified as non-registerable, non-hazardous waste.

Fill materials generally met the MOE Table B Standards and the CEQG Standards for commercial/industrial property use, with the exception of lead concentrations exceeding the CEQG Standards in one soil sample collected from 0.75 to 1.05 m bgs, and benzo(a)pyrene concentrations exceeding the MOE Table B and CEQG Standards in a soil sample collected from 0.15 to 0.46 m bgs. Fill materials generally met the MOE Table B Standards and the CEQG Standards for residential/parkland property use, with the exception of lead and zinc concentrations at depths ranging from 0.75 to 1.37 m bgs, several exceedances of PAHs at depths ranging from 0.15 to 0.46 m bgs, and several exceedances of electrical conductivity at depths ranging from 0.33 to 1.52 m bgs. PH levels were documented up to 9.53 in eight soil samples, which were above the CEQG residential/parkland and commercial criteria ranges of 6 to 8.

Groundwater concentrations of parameters analysed were below the MOE Table B Standards. BTEX and acetone were detected, but were below the MOE Table B Standards.


The report contained the following information:

- This investigation was conducted on the northeast portion of Pier 8, which was used for storage and warehousing for shipping companies and the Hamilton Port Authority. Two buildings were present in the Study Area; Shed 6 (warehouse) and Shed 7 (boat storage).
- APECs for Pier 8 were generally consistent with previous environmental investigations in this area. New APECs included:
  - At 65 Guise Street, a full service retail gasoline station was identified, along with a Laidlaw Waste Systems retail storage tank (expired in 1992) and a private Laidlaw Carriers Inc. storage tank with a capacity of 90,920 litres.
  - A spill of 3.2 kilograms of halon fire extinguisher was released to air from the Department of National Defence property (650 St. Catharine Street North) in 1999.
  - Lead based-paint was identified on the exterior of Shed 7 by a previous designated substance report.
- A Phase Two ESA was recommended.
MOE FOI Files (17, 47 and 57 Discovery Drive Only)


This report was also provided to Dillon for the 2013 Records Review (by HPA) and is summarized above in Section 4.1.5.3.

CH2M HILL, Phase I Environmental Site Assessment Update, Proposed Canada Discovery Center Site Pier 8, Hamilton, Ontario, March 2002:

- 2001 Eco Log Environmental Risk Information Services Limited identified the following:
  - (1930-2000) Anderson’s Waste Disposal Sites identified five sites between 0.45 to 2 kilometres from the site;
  - (1985-1999) Certificates of Approval Database identified 54 sites having CAs (municipal water and sewer) 0.45 to 2 km from the site;
  - (1988) Coal Gasification Plants database identified one site that produced and/or continues to produce or use coal/or other related tars within 0.45 to 2 km from the site;
  - (1986-2000) The Ontario Regulation 347 Waste Generators summary identified six sites within 0.45 km from the site and 170 other sites within 0.45 to 2 km from the site;
  - (1989-1995) The National Contamination-sites Remediation Program (NCS) Identified a high risk “abandoned” site within 0.45 to 2 km from the site;
  - (1988-1998) The National PCB Inventory identified 13 sites 0.45 to 2 km from the site as containing/storing PCB filled equipment or PCB waste;
  - (199-1994) The National Pollution Release Inventory Database identified 45 sites within 0.45 to 2 km from the site that released one or more of 178 specific substances to the air, water or land;
  - (1987-2000) The Ontario Inventory of PCB storages Sites Database Identified 10 sites located 0.45 and 2 km from the site;
  - (1988-2000) The Occurrence Reporting System identified one spill within 0.45 metres from the site and 218 spills within 0.45 to 2 km from the CDC site. On December 7, 1999 a 3.2 kg of 1301 Halon was released when a fire extinguisher went off at the Department of Natural Defense located at 650 Catherine Street;
  - The Pesticide Register database identified 9 manufacturers or vendors of registered pesticides 0.45 and 2 km from the CDC site;
  - The Private Fuel Storage Tank database identified 2 sites within 0.45 km of the CDC site and 10 sites within 0.45 to 2 km from the CDC site;
  - The Ontario Regulation Waste Receivers Summary Database identified 19 sites within 0.45 to 2 km from the CDC site;
  - (1989-2001) The Ontario Retail Fuel Storage Tanks identified 3 sites within 0.45 km and 22 sites within 0.45 to 2 km from the site. Two were registered to Laidlaw systems at 65 Guise St. the third was an expired registration date on March 31, 1996 was identified as a full service
gasoline station owned and operated by the Hamilton Port Authority at the foot of James and Guise Streets;
- (1992-2000) Scott’s Manufacturing Directory identified 89 sites between 0.45 to 2 km from the site;
- (1970-1988) The Waste Disposal Inventory identified 3 sites within 0.45-2 km from the site;
- (1955-1998) The Well Water information System identified two wells within 0.45 to 2 km from the site.

- Leaks/drips from transportation equipment used to maneuver the sail/motor boats onto wooden/metal braces for storage and potential leaks/drips from improperly handled motors during storage, minor repairs, washing solutions and possible paint chips/drips.
- Two out-of-service oil pipelines owned by Imperial Oil and Sun Canadian Pipelines cross the site and three pipelines are currently located along the southern and western property limit. Environmental quality of the subsurface conditions of soil and groundwater in the vicinity of the out-of-service pipelines is questioned.
- Fill quality of Pier 8 slag material.
- Pole mounted Transformers may contain PCB’s.
- Ontario Retail Fuel Storage Database identified the former Laidlaw Carriers (Brewer’s Marine Supply) south of the CDC Site identified a 90,920 L Fuel Storage Tank (Expired April 30 1992).
- Recommended a Phase II ESA.


Information contained in the report was as follows:
- The subsurface investigation consisted of the advancement of eight boreholes with depths ranging from 4.4 to 5.2 metres, with three of the boreholes completed as monitoring wells.
- One surface soil sample was collected in the area of the pole-mounted transformer to determine potential PCB impacts.
- Three groundwater samples were collected using waterra tubing and foot valves.
- Soil samples indicated metals impacts (barium, beryllium, cadmium, copper, lead, selenium and zinc).
- Lead exceeded in soil sample collected in MW2 (2.3-2.9 metres) was 157 ug/g.
- Zinc exceeded in soil collected from MW1 (3.8-4.6 metres) (170 ug/g), MW2 (2.3-2.9 metres) (220ug/g), and BH5 (0.75-1.4 metres) (443 ug/g).
- Barium exceeded in BH2 (0.15-0.75 metres) (908 ug/g) and BH3 (0.15-0.75 metres) (541 ug/g).
- The western and northern portions of the subject property found soil exceeded concentrations of beryllium.
- Cadmium exceeded concentration in BH5 (0.75-1.40 metres) (13.2 ug/g).
- Copper concentrations exceeded guidelines in BH5 (0.75-1.4 metres) (98 ug/g) BH5 (2.3-2.9 metres) (85.3 metres), and MW1 (3.8-4.6 metres).
- Selenium concentration exceeded in MW3 (2.3-2.9 metres).
- PAH exceedences for benzo(a)pyrene, fluoranthene, chryrsene, benzo(b)fluoranthene, benzo(k)fluoranthene, indeno(123-cd)pyrene, dibenzo(a,h)anthracene, napthalene, phenanthrene, pyrene, and benzo(a)anthracene.
- One surface soil sample in the area of the boat house exceeded TPH concentrations
- Groundwater concentration of mercury exceeded in MW3.
- Groundwater concentration of PAH’s exceeded in MW1, but not detected down gradient in MW2 and MW3.
- Recommendations included removal of surface soil impacted by hydrocarbons and a Site-Specific Risk Assessment approach for contaminated fill.

**XCG Consultants Limited, Additional Environmental Services Related to the Site Development of Pier 8, Hamilton Harbour, March 2005.**

- Oversight of excavation and handling of impacted fill material during re-development, and groundwater sampling from 2 monitoring wells at the site, the third of which had been destroyed during construction.
- Two site inspections were done to observe grading and capping within the park area and to observe activities within the parking area. Approximately 0.3 m of topsoil was placed over the fill material after grading.
- Groundwater sampling results indicate the concentrations of the parameters identified as a concern (i.e., benzo(a)pyrene, benzo(k)fluoranthene and mercury), were below the applicable criteria at that time.

**XCG Consultants Limited, Groundwater Sampling Results for Parks Canada Discovery Centre, 57 Discovery Drive, Hamilton, Ontario, September 2009.**

Information contained in the report was as follows:

- Groundwater investigation conducted at 57 Discovery Drive to update existing groundwater data with respect to the presence of heavy metals and PAHs.
- Two groundwater samples were collected using a low-flow sampling method.
- Dissolved metals, mercury and PAH concentrations were below the MOE Table 3 criteria applicable at that time.

Note: The MOE FOI records for 17, 47 and 57 Discovery Drive included a Risk Assessment report for Pier 8, authored by XCG Consultants Limited dated February 14, 2003. A summary of its contents was not included in this Phase One ESA, as the study area was limited to the northwest portion of Pier 8. Should a Risk Assessment of the current subject property be required, the 2003 Risk Assessment report will be referenced for the intended purpose.

### 4.2 Environmental Source Information

#### 4.2.1 MOE Freedom of Information

Dillon faxed seven FOI requests to the MOE FOI Office on March 25, 2013, for any information pertaining to Piers 5 to 8. As the site contains 18 municipal addresses, and the MOE has specific search parameters (i.e., adjacent addresses with the same owner, on the same side of
the street, can be grouped together), Dillon submitted FOI requests for the following seven groups of properties:

- 555 Bay Street North
- 595, 659, 695 Catharine Street North
- 17, 47, 57 Discovery Drive (formerly 17, 47, 57 Guise Street East)
- 9, 31, 33, 65 Guise Street East
- 1, 17 Guise Street West
- 607 James Street North
- 50 Leander Drive

On April 1, 2013, Dillon received letters from the MOE FOI office dated March 26, 2013, confirming that the FOI forms had been received and that the requests would be processed. The search results were received from the MOE (dated between April 11 and May 29, 2013). Records, where available, were included with the search results, with the exception of records for 17, 47 and 57 Discovery Drive. As there were approximately 1,100 pages of records available for 17, 47 and 57 Discovery Drive, additional fees were required by the MOE before the records request would be completed. Dillon submitted the full payment amount to the MOE FOI office via facsimile on May 7, 2013. The records for 17, 47 and 57 Discovery Drive were received on January 19, 2015. Appendix E presents a copy of the correspondence between Dillon and the MOE FOI Office, and records received.

An additional request was sent to the MOE FOI office on October 3, 2014, requesting records related to 52 Burlington Street West, Bayview Park. A response was received from the MOE on October 6, 2014 acknowledging the request. Further correspondence from the MOE on October 20, 2014, indicated no records were available for Bayview Park.

On November 4, 2014, an MOE FOI request was made to search records for an adjacent property to Pier 8 at 650 Catharine Street. On November 5, 2014, an acknowledgement was received from the MOE; however, no further correspondence was received at the time this report was written.

A summary of the records found during a search of the MOE Hamilton District Office, West Central Regional Office, Investigations and Enforcement Branch, Environmental Monitoring and Reporting Branch, Sector Compliance Branch and Safe Drinking Water Branch, are summarized by address group in the table below:

<table>
<thead>
<tr>
<th>MOE FOI SEARCH RESULTS</th>
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</thead>
<tbody>
<tr>
<td><strong>Search Group</strong></td>
</tr>
</tbody>
</table>
| 555 Bay Street North   | - MOE response dated April 16, 2013.  
                          | - No records were located in response to our request. |
                                      | - No records were located in response to our request. |
| 17, 47, 57 Discovery Drive (formerly 17, 47, 57 Guise Street East) | - MOE response dated April 19, 2013.  
                                                                 | - Approximately 1,100 pages of records were located. Due to the amount of records available, additional fees for searching, copying, preparation and delivery were required. |
### MOE FOI SEARCH RESULTS

<table>
<thead>
<tr>
<th>Search Group</th>
<th>Response and Results Summary</th>
</tr>
</thead>
</table>
| Dillon       | • Dillon submitted full payment of the additional fees to the MOE via facsimile on May 7, 2013.  
• Records were received on January 19, 2015.  
• Various geotechnical, environmental reports and risk assessment documents were located for these properties. Summarized in Section 4.1.5.4.  
• No spills or MOE orders listed.  
• HWIN registration for Hamilton Police services (Marine Police Unit), and Hamilton Waterfront Trust. |
| 9, 31, 33, 65 Guise Street East | • MOE response dated April 17, 2013.  
• 63 pages of records were located and were enclosed with the MOE response.  
• There was a spill on March 11, 1988 of 30 gallons of liquid oily water to the road, entrance to scale area, an open ditch and catch basin at Laidlaw Transport (65 Guise Street). Absorbent materials were applied to the road, and a contractor was retained to pump out the ditch and catch basin with a vacuum truck. An investigation report, emergency generator report, and waste manifest documents (waste class 251L) were available for review.  
• The Ministry of the Environment assigned Waste Generator Registration Numbers to Laidlaw for 65 Guise Street (ON0470600, and ON0111726). The type of waste included waste naphtha petroleum (degreasing of parts and tools), used batteries (from commercial trucks), used engine oils (motor and hydraulic oils from maintenance of vehicles), and water containing sand/oil and waste water/oil from catch basins (snow and ice from vehicles, oil spills during truck maintenance). Multiple records were made available.  
• The Ministry of the Environment assigned a Waste Generator Registration Number to Brewers Marine Supply for 65 Guise Street (ON2475400). The type of waste included paint/pigment/coating residues, aliphatic solvents, polymer resins, and organic laboratory chemicals.  
• Laidlaw (65 Guise Street) was notified by the MOE about driver training requirements under Regulation 309 with respect to hauling asbestos waste in 1987.  
• Internal MOE documentation from 1986 stated that Laidlaw (65 Guise Street) was not approved to handle pathological wastes, and would require a Certificate of Approval to handle and collect such wastes.  
• HWIN results: 31 Guise Street (Waveline Marine, ON5211643) was listed for active waste class 252L; 65 Guise Street (Brewers Marine Supply, ON2475400) was listed for active waste classes 122C, 148C, 212I, 232I, 252L, 263I, 267C and 331I, and inactive waste classes 145H, 263A and 263L.  
• The records included several pages of partially illegible documents. |
<table>
<thead>
<tr>
<th>Search Group</th>
<th>Response and Results Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>1, 17 Guise Street West</td>
<td>• MOE response dated April 17, 2013.&lt;br&gt;• Eight pages of records were located and were enclosed with the MOE response.&lt;br&gt;• There was an MOE Occurrence Report for 1 Guise Street on March 4, 1997 for 1000 L of miscellaneous organic wastes due to site cleanup. An emergency generator number was issued. Further details with respect to the source, or cleanup activities were not available.&lt;br&gt;• There were two MOE notices in 2011 for an expired Waste Generator Number (ON5756204) for Hamilton Marine Services Shed #4 (1 Guise Street). HWIN results for this generator number were listed for active waste classes 221I and 252L.&lt;br&gt;• The Hamilton Port Authority also has a Waste Generator Number for 1 Guise Street (ON7699814) and HWIN results list the active waste classes as 145I, 148C, 212L, 213I, 252L and 331I.</td>
</tr>
<tr>
<td>607 James Street North</td>
<td>• MOE response dated April 16, 2013.&lt;br&gt;• No records were located responsive to our request.</td>
</tr>
<tr>
<td>50 Leander Drive</td>
<td>• MOE response dated April 11, 2013.&lt;br&gt;• Four pages of records were located and were enclosed with the MOE response.&lt;br&gt;• There were two MOE Occurrence Reports for Hamilton Harbour between Piers 4 and 5 on June 5 and 10, 1996, respectively. MNR had received a message about a fish kill, and the caller didn’t believe it was a natural occurrence. Four to five species were sighted in the thousands of reported dead fish from minnows to largemouth bass. Hamilton-Wentworth was notified and stated they would sample. An angler complained of poor fishing and observation of approximately 250 dead fish (bass, sunfish, bait fish, perch and pike) in the area of the boat club. Further details were not available.</td>
</tr>
<tr>
<td>650 Catharine Street North (Adjacent Property)</td>
<td>• MOE response dated November 5, 2014.&lt;br&gt;• Records not received at the time this report was written.</td>
</tr>
<tr>
<td>52 Burlington Street West (Bayview Park)</td>
<td>• MOE response dated October 20, 2014.&lt;br&gt;• No records were located in relation to the address provided.</td>
</tr>
</tbody>
</table>

**4.2.2 Ecolog ERIS/Regulatory Searches**

This section provides a summary of information pertaining to the Study Area for the sources of environmental information that were reviewed. Environmental source information was obtained through individual searches, contact with regulators, and via the Ecolog ERIS database search.
<table>
<thead>
<tr>
<th>Title of Information</th>
<th>Description of Relevant Data to Phase One ESA</th>
<th>Area of Potential Environmental Concern</th>
<th>Source of Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>City of Hamilton Environmental Monitoring and Enforcement</td>
<td>City of Hamilton request for records response indicates there were five small fuel spills to Hamilton Harbour, likely watercraft source. As well, a landfill was located within 500m of Piers 5 to 8. The City also searched for records of spills or former municipal landfill sites near Bayview Park, and none had been identified since 1974. Correspondence is provided in Appendix B.</td>
<td>None</td>
<td>City of Hamilton – Water and Wastewater Division, Public Works, Environmental Monitoring and Enforcement, 2013/2014</td>
</tr>
<tr>
<td>Fire Insurance Plans</td>
<td>FIPs for 1947 and 1964 were available for the site. Piers 5 to 8 have operated mostly as marina/boat yard/shipping facility since pre-1947, surrounded mainly by residential dwellings and occasional commercial operations. 52 Burlington Street was vacant in 1947 and was designated ‘Playground’ by 1964. ASTs were interpreted to be present on the FIPs at various locations on Piers 6 through 8.</td>
<td>Yes; PCA#28, Gasoline and Associated Products Storage in Fixed Tanks; PCA#29, Glass making</td>
<td>Opta Environmental Services, 2013</td>
</tr>
<tr>
<td>Water Well Information System</td>
<td>One water well identified within 0.25 km of Piers 5 to 8. MOE water well record search returned records of 10 monitoring wells at 650 Catharine Street. No water wells were identified at 52 Burlington Street or within 0.25 km through Ecolog ERIS.</td>
<td>None</td>
<td>EcoLog ERIS, 2013/2014 and MOE Water Well Record Search</td>
</tr>
<tr>
<td>Boreholes</td>
<td>12 Borehole records on-site, 32 off-site at Piers 5 to 8; no borehole records for Bayview Park.</td>
<td>None</td>
<td>Ecolog ERIS, 2013/2014</td>
</tr>
<tr>
<td>Ontario Regulation 347 Waste Generators Summary</td>
<td>36 records returned for Piers 5 to 8, 7 records off-site listing such descriptions as light fuels, waste oils and lubricants, waste compressed gases, etc.; no Waste Generators listed at 52 Burlington Street, 18 records from off-site sources.</td>
<td>Yes; PCA #28, Gasoline and Associated Products Storage in Fixed Tanks, PCA other, small-scale fuel and chemical storage</td>
<td>EcoLog ERIS, 2013/2014</td>
</tr>
<tr>
<td>List of TSSA Expired Facilities</td>
<td>1 full-service gasoline station listed at 65 Guise Street (Pier 8); 2 records listed off-site for</td>
<td>Yes; PCA#28. Gasoline and Associated</td>
<td>EcoLog ERIS, 2013/2014</td>
</tr>
<tr>
<td>Title of Information</td>
<td>Description of Relevant Data to Phase One ESA</td>
<td>Area of Potential Environmental Concern</td>
<td>Source of Information</td>
</tr>
<tr>
<td>----------------------</td>
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</tr>
<tr>
<td>Fuel Storage Tanks</td>
<td>9 records for on-site fuel storage tanks for Piers 5 to 8; 3 records within 0.25 km of Bayview Park.</td>
<td>Yes; PCA#28. Gasoline and Associated Products Storage in Fixed Tanks</td>
<td>EcoLog ERIS, 2013/2014</td>
</tr>
<tr>
<td>Private and Retail Fuel Storage Tanks</td>
<td>4 records listed on-site on Piers 5 to 8, one off-site; 1 record listed within 0.25 km of Bayview Park.</td>
<td>Yes; PCA#28. Gasoline and Associated Products Storage in Fixed Tanks</td>
<td>EcoLog ERIS, 2013/2014</td>
</tr>
<tr>
<td>Ontario Spills</td>
<td>1 spill record was listed on-site at Piers 5 to 8, 7 spills records listed off-site; 8 records were listed within 0.25 km of Bayview Park</td>
<td>None</td>
<td>EcoLog ERIS, 2013/2014</td>
</tr>
<tr>
<td>ERIS Historical Searches</td>
<td>Three ERIS searches were conducted for Piers 5 to 8; 3 off-site searches were conducted within 0.25 km of Bayview Park</td>
<td>None</td>
<td>EcoLog ERIS, 2013/2014</td>
</tr>
<tr>
<td>Areas of Natural and Scientific Interest</td>
<td>No ANSIs identified within the study areas; nearest ANSI is approximately 2.5 km north from site boundary</td>
<td>None</td>
<td>Ministry of Natural Resources website/EcoLog ERIS, 2014</td>
</tr>
</tbody>
</table>

Within 250 m of Piers 5 through 8 and Bayview Park, within the study areas, the following other relevant information was found:

- Anderson’s Waste Disposal Sites listed a landfill (Eastwood Park Dump) that was active in the 1920’s. The landfill was located near Mary Street and Burlington Street East. The Waste Disposal Sites – MOE 1991 Historical Approval Inventory database listed the closure date as 1922 and described the waste as rural municipal/domestic waste.
- Boreholes drilled for geotechnical/geological purposes and on and surrounding the property identified lacustrine deposits overlain by fill at some locations. Fill material may be of poor quality (e.g., contains occasional cinder, wood debris, or asphalt).
- Certificates of Approval and Environmental Registry Approvals were identified in the vicinity of the site, generally with no specific address listed. Approvals consisted of municipal and private works (i.e., sewage), and industrial air approvals.
- Contaminated Sites on Federal Land included three records near Piers 5 to 8 for CFRB Hamilton. Two records (HMCS Star and an old garage) were described as a former dump and reclaimed land with contaminants that included PHC, PAH, metals and other physical contaminants in soil, and metals in soil, respectively. The third record was for the Pier 9 Haida lease, and contaminants included PHCs in soil and groundwater, and metals in soil.
4.2.3 MNR Biodiversity Explorer

Dillon contacted the MNR Lake Ontario Management Unit via telephone on March 25, 2013. Jim Bowlby indicated that the MNR does not maintain environmental spills or incident records, or other information pertaining to contamination. Annual fisheries reports for the Lake Ontario

- There were six ERIS searches completed between 2001 and 2010. Three are within the harbor properties, while three were within the 0.25 km study area. An additional ERIS search was conducted within the 250 m buffer area to Bayview Park in 2003.
- Fuel Storage Tank records for Piers 5 to 8 Study Area were confirmed to be records for the site. Records for Bayview Park indicated 3 tanks within 0.25 km which were within the Pier site. There were also 2 historic tank records listed for Gate 10 Burlington Street East.
- The Waste Generator Summary for the Pier Study Area included wastes similar to those listed for the site, as well as photo-processing wastes, light fuels, pharmaceuticals and pathological wastes, steel making residues, aromatic solvents, petroleum distillates, waste oils and lubricants, etc. There were 18 Waste Generator records listed within the Bayview Park study area generally reflect the summary for the Piers 5 to 8 study area.
- Various spills were reported within the Pier 5 to 8 Study Area between 1993 and 2010 to surface water, air and soil. Spilled contaminants included oil, halon fire extinguisher, furnace oil, petroleum product, transformer oil, soluble car wax, and hydraulic oil. Spills were also reported within the Bayview Park Study Area between 1991 and 2013, and included contaminants such as raw sewage, hydraulic oil, non-PCB transformer oil, and furnace oil.
- A Record of Site Condition was submitted to the MOE in 2011 for 587 James Street North for a change from commercial to residential property use. Full depth non-potable standards were used.
- Scott’s Manufacturing Directory included two records within the Pier 5 to 8 Study Area. The first was for Rankin Construction (605 James Street North), which provides various services including highway, bridge, water and sewer line construction, equipment rental and leasing, engineering, asphalt paving mixture manufacturing. The second record was for Bay Sails/Haarstick (469 Bay Street North) for manufacturing of canvas and related products. An additional record was listed within the Study Area for Bayview Park; Perc. W. Bursey & Sons Ltd. (497 Hughson Street North) which manufactures ornamental and architectural metal products, textile bags and canvas.
- While no water wells were identified on the site, a monitoring well installed to a depth of 5.9 m was noted within 0.25 km of Piers 5 to 8.
- A former Auto Body facility was identified as having existed within the 250 m study area.
- A coal gasification plant was identified in the EcoLog report; however, this site is located approximately 2 km to the south of the subject site, on the south side of Mulberry Street (between Bay Street North, and Park Street). Records indicate that the plant ceased operations in the 1920’s. Current land use at this site is commercial-residential, and the site has been designated in the EcoLog records with a low ranking regarding potential environmental impacts.

A copy of the EcoLog search has been provided in Appendix F. In addition to the databases searched by EcoLog ERIS provided in the table above, a search was performed of additional information sources and are summarized below:

4.0 Records Review
Management Unit are available online, but were not considered to be relevant to this Records Review. A copy of the MNR correspondence is included in Appendix E.

### 4.2.4 MNR Lake Ontario Management Unit

Dillon contacted the MNR Lake Ontario Management Unit via telephone on March 25, 2013. Jim Bowlby indicated that the MNR does not maintain environmental spills or incident records, or other information pertaining to contamination. Annual fisheries reports for the Lake Ontario Management Unit are available online, but were not considered to be relevant to this Records Review. A copy of the MNR correspondence is included in Appendix E.

### 4.2.5 Department of Fisheries and Oceans

Dillon contacted the Federal Department of Fisheries and Oceans via email on March 25, 2013. Rick Kiriluk responded on March 26, 2013 and indicated that the DFO does not maintain environmental spills or incident records, or other information pertaining to contamination. A copy of the DFO correspondence is included in Appendix E. The DFO was not contacted in 2014/2015 for inquiries regarding Bayview Park as they do not retain environmental records.

### 4.2.6 Local Conservation Authority

The Hamilton Conservation Authority was contacted on March 25, 2013 via telephone. Darren Kenny, a Watershed Officer, indicated that the HCA does not maintain records with respect to contamination or environmental spills and incidents; however, they do maintain records with respect to natural heritage areas and other information pertaining to development. Dillon submitted a letter request for the available information on March 25, 2013. A response letter from the HCA dated April 5, 2013 was received. The HCA indicated that a portion of the subject properties are within the flood hazard of the Hamilton Harbour. Also, based on current City of Hamilton mapping, Pier 5 contains lands that are designated as part of the Hamilton Harbour Environmentally Significant Area. The HCA indicated that future development of the properties within Piers 5 to 8 will likely require an environmental impact study, as the Hamilton Harbour is designated as a key hydrologic feature of the natural heritage system in the City of Hamilton Urban Official Plan.

The Hamilton Conservation Authority was contacted on November 4, 2014 requesting information relating to Bayview Park. A response from Darren Kenny was received on November 10, 2014 indicating there were no additional records relating to directives, orders, breaches of Regulations, nor natural heritage or natural hazard features on the study property. A copy of the HCA correspondence is included in Appendix E.

### 4.2.7 Local Port Authority

The Hamilton Port Authority was contacted on March 11, 2013 via email. Bill Fitzgerald, the Vice-President, Operations of the Hamilton Port Authority redirected the records request to Steve Parker, a Design Technologist with the Hamilton Port Authority. Mr. Parker provided five environmental reports for Pier 8 from 1993 to 2010. The five reports are summarized in Section 4.1.5.3. A copy of the HPA correspondence is included in Appendix E. No further contact was made with HPA in 2014/2015 with regard to reports relating to Bayview Park.
4.2.8 Single Tier Municipality – City of Hamilton

Dillon contacted the City of Hamilton on March 12, 2013, via telephone, for any pertinent information on the Site. Their letter response dated March 13, indicated that there were three separate departments to contact with respect to records: Environment and Sustainable Infrastructure Division, Environmental Monitoring & Enforcement within the Environmental and Sustainable Infrastructure Division, and the Fire Prevention Bureau, Emergency Services Division. Five environmental reports were provided by Pavneet Brar on behalf of the Environment and Sustainable Infrastructure Division. These reports are summarized in Section 4.1.5.1. Cari Vanderperk, the Superintendent of the Environmental Monitoring & Enforcement Compliance and Regulations Section indicated there were no violations of the Hamilton Sewer Use By-law 04-150 from the civic addresses provided for the site from 1991 to present. Records of five small fuel oil spills to the Hamilton Harbour, likely originating from watercraft were documented, and were responded to by the Ministry of Environment, Environment Canada and/or the Canadian Coast Guard. Records also noted that the Eastwood CSO tank discharges via the outfall 9 m east of 659 Catharine Street (Ocean Towing), during heavy rain events. These records also indicated that a former landfill was located within 500 m of the civic addresses provided for the Site. The Emergency Services division found no reports involving environmental concerns from Piers 5 to 8 over the previous thirteen years.

Hamilton Harbour is designated as a key hydrologic feature of the natural heritage system in the City of Hamilton Urban Official Plan. Future development of the properties within Piers 5 to 8 will likely require an environmental impact study.

The City of Hamilton also searched for records of spills or former municipal landfill sites near Bayview Park, and none had been identified since 1974. Appendix E presents a copy of the correspondence between Dillon and the City.

4.2.9 Technical Standards and Safety Authority (Ontario)

Dillon contacted the TSSA by email March 12th, 2013. The TSSA responded by mail indicating there were available records for fuelling facilities at the Site. USTs were reported to exist at the site and surrounding the subject property, and regular inspections and license renewals had been conducted. A copy of the records was requested from the TSSA and contained the following information:

- There are three USTs listed on the property at 1 Guise Street, owned by the Hamilton Port Authority. The site serves as a marine refueling station, and is comprised of two gasoline tanks (22,500 L and 13,500 L), and one diesel fuel tank (13,500 L).
- Inspections conducted at 1 Guise Street did not indicate any spill occurrences, only general maintenance requirements.
- The property at 65 Guise Street is reportedly an active self-serve private fuel outlet, and currently has diesel USTs on-site. The actual number of tanks present is not known, as two tank records appear to be duplicate (22,730 L each), and an additional record indicates a total fuel capacity at the site as 90,920 L.

Appendix E presents a copy of the correspondence received from the TSSA.
Dillon contacted Kevin Meldrum, the Pipelines and Distribution Crossing Coordinator for Imperial Oil Limited via email on April 24, 2013. An email response was received on May 29, 2013, indicating that the Imperial Oil pipelines are 6 inches in diameter, and have not had product in them for more than 25 years. They have been put on idle status and have a positive pressure of a “couple of pounds of nitrogen”. The pressures are monitored on a preventative maintenance schedule. After a review of available Imperial Oil files and discussions with staff, Kevin indicated that they have no knowledge of issues related to the pipelines in the past 25 years. On February 10, 2015, Dillon contacted Imperial Oil to inquire if the status of the pipeline has changed, and was verbally informed the pipelines are still inactive.

Dillon also contacted Paul Lane at Sun Canadian via telephone and follow-up email on April 24, 2013. Mr. Lane forwarded the records request to Paul Yunt, who contacted Dillon via telephone on April 25, 2013. Mr. Yunt indicated verbally that they do not have any record of incidents or spills associated with their pipeline on Pier 8. On February 10, 2015, Dillon also contacted Paul Lane at Sun Canadian who verbally indicated the 6” pipeline in that area is still active.

Appendix E presents a copy of the correspondence between Dillon and the pipeline companies.

### Aerial Photographs

Sixteen aerial photographs were available from the National Air Photo Library for Piers 5 to 8 and included Bayview Park, according to a search by Ecolog ERIS (1927, 1934, 1950, 1951, 1959, 1962, 1966, 1969, 1973, 1974, 1979, 1980, 1986, 1990, 1992, and 1995). Dillon obtained photographs taken in 1927, 1950, 1959, 1973, and 1990. Appendix C presents the aerial photographs. Dillon selected aerial photographs for review based on those that showed changes to site features and were available at the time of the Phase One ESA. Photographs were selected across each decade, as available with appropriate resolution, to track changes over time on the Property. A summary of the review of the available aerial photography is presented in the following table. It is noted that the scale and resolution of the photographs varied and did not always allow for a detailed evaluation of the surface conditions at the site or adjacent properties.

<table>
<thead>
<tr>
<th>Year</th>
<th>Photo No.</th>
<th>Approximate Scale</th>
<th>Observations</th>
</tr>
</thead>
<tbody>
<tr>
<td>1927</td>
<td>RA13-72</td>
<td>1 : 8 000</td>
<td>- A small portion of Pier 8 north of Catharine Street North appears to have been reclaimed. One large building is visible. - Piers 5 to 7 appear to have been reclaimed, although not to the full extent of the current day shoreline. Several larger buildings present, as well as what appears to be private residences along the shoreline of Pier 7.</td>
</tr>
<tr>
<td>Year</td>
<td>Photo No.</td>
<td>Approximate Scale</td>
<td>Observations</td>
</tr>
<tr>
<td>------</td>
<td>-----------</td>
<td>-------------------</td>
<td>--------------</td>
</tr>
</tbody>
</table>
| 1950 | A12565-50 | 1 : 10 000        | - Guise Street is present but is not continuous between MacNab Street North and James Street North.  
- Bayview Park is vacant, with what appears to be private residences to the south and west, possibly commercial/institutional buildings to the east (on the west side of McNab Street) and Bay/Guise Streets to the north. Likely community property use; i.e., parkland. |
| 1959 | A16448-26 | 1 : 12 000        | - Pier 8 has not been developed further, and the large building still remains.  
- The shoreline of the site appears to be generally consistent with 1927 shoreline.  
- The private residences appear to have been demolished, and Guise Street has been extended between MacNab Street North and James Street North.  
- Bayview Park and surroundings are consistent with the 1927 photo. |
| 1973 | A23124-36 | 1 : 25 000        | - Pier 8 has been reclaimed to the current extent, with multiple buildings on the property. Freight ships are docked along the north end of Pier 8.  
- Further development of docks and related water control structures has also continued along the shoreline of Piers 5 to 7.  
- Bayview Park appears to still be used as parkland, alternate surface area still present.  
- Buildings west of Bayview Park appear to be removed; new tall building (i.e., apartments) has been built. |
| 1990 | A27598-102| 1 : 20 000        | - The buildings along the west end of the north portion of Pier 8 appear to have been demolished and that area of the site appears vacant.  
- The remainder of buildings at the Site appears to be consistent with the current structures.  
- Bayview Park still likely parkland, tall building remains on lot west of park. |
### 4.3.2 Topography, Hydrology, Geology

Piers 5 through 8 are located on the south shore of Hamilton Harbour (Lake Ontario). The elevation of the site is between 75 and 80 masl. Topography in the area gently slopes down to the north towards Lake Ontario (Natural Resources Canada, 1989).

Bayview Park is located to the south of Pier 5, at the south-west corner of Guise Street and McNab Street. The elevation of the park is approximately 85 masl. The park is generally flat, and on the north and northwest sides, slopes steeply toward Guise Street (Ontario Base Mapping, 2010, Ontario Ministry of Natural Resources; Ecolog ERIS, October 2014).

Quaternary deposits within the Piers 5 to 8 Study area are mainly recent stream deposits of gravel, sand, silt and clay, however, surrounding the Piers, including Bayview Park, soils consist of lacustrine and outwash sand of the Pleistocene epoch, Late Wisconsin era. Given the site is reclaimed land, the soils below the Piers are primarily fill materials (OGS, Map 2509, 1987).

The Ontario Division of Mines map 2336 “Hamilton, Paleozoic Geology”, indicates that bedrock geology in the area is comprised of an Upper Ordovician-Richmonian aged formation composed of red shale from the Queenston formation. This unit forms the bedrock of the major portion of the map-area east of the Escarpment and in the Dundas Valley. It is dominantly red, hematitic, fissile and micaceous calcareous shale. Reduction zones having a green colouration occur parallel and discordant to bedding. The true thickness of the unit cannot be determined from outcrop studies but a minimum thickness of 300ft is estimated. The upper contact of the unit with the Whirlpool Formation is sharp and disconformable (Ontario Division of Mines, 1976).

Bedrock elevation below the sites is between 30 to 60 masl and slopes downward north and south of the site, towards the Dundas Buried Valley (depth unknown), which runs generally east to west into the west end of Lake Ontario (Ontario Division of Mines, 1964).

Soil stratigraphy within the Piers site consists mainly of variable fill materials (e.g., sand and gravel, brick, slag), extending to a maximum depth of approximately 9 m below the current ground surface. The fill materials are underlain by native lacustrine deposits, comprised of silty sand to sandy silt, transitioning to silty clay. The silty sand to sandy silt unit was described as grey-brown with trace clay, shells, organics and gravel, and was reported to be approximately 10 m thick. The underlying silty clay material is grey-brown, containing trace sand and gravel, and extends to approximately 27 mbgs, where bedrock was reportedly encountered (Golder, 2000).

Previous studies have not been conducted at Bayview Park, therefore the detailed soil stratigraphy at this site could not be assessed.

Depth to groundwater at the site has been measured to be between 0.2 and 3.7 mbgs (73.9 to 78.4 masl) and groundwater flow direction is presumed to be in a northerly direction, toward Lake Ontario.

### 4.3.3 Fill Materials

The site was historically part of the bed of the Hamilton Harbour. In 1911, a stone cribwork pier approximately 25 m wide and 80 m long was constructed in the current location of Pier 8 (Peto-MacCallum, 1993). The pre-1911 shoreline appears to have been located where Guise Street is now present. Based on a 1947 FIP, it appears that the majority of Piers 5, 6, and 7
were in-filled to their current extent at that time; however, Pier 8 was only partially in-filled in 1947, with just a small portion of land extending north of Guise Street East between Catharine Street North and John Street North. The current Pier 8 was constructed of dredged soils between 1962 and 1967 and capped with approximately 1.5 m of construction fill that contained foundry sand, bricks, mortar, slag and coal (Peto MacCallum, 1993). A slag fill berm was installed during reclaiming of land for construction of Pier 8 (Golder, 2000).

The fill at the site was encountered during various environmental and geotechnical investigations, and was typically described as sandy silt or silty clay and contained layers of crushed limestone, slag, and foundry sand. Debris was also identified in the fill and included brick, concrete, coal, and bituminous gravel.

4.3.4 Water Bodies and Areas of Natural Significance

The site is located on the shoreline of Hamilton Harbour. On-line mapping at the MNR website identified the nearest ANSI to be Hendrie Valley, which is approximately 2.5 km from the site, and is located north of Hamilton Harbour. Cootes Paradise, also classified as an ANSI, is located approximately 3 km west of the site. The nearest tributary is approximately 1.7 km from the site, and flows into Lake Ontario via Cootes Paradise. The Hamilton Conservation Authority indicated that a portion of the subject properties are within the flood hazard of the Hamilton Harbour. Also, based on current City of Hamilton mapping, Pier 5 contains lands that are designated as part of the Hamilton Harbour Environmentally Significant Area.

ANSI mapping purchased from EcologERIS for the Bayview Park property did not indicate any additional ANSI’s within the study area.

4.3.5 Well Records

Water well records for the region were downloaded from the Ministry of Environment Water Well Information System on March 11th, 2013 and displayed in ArcGIS. According to these water well records, no water wells are currently present on the sites (Piers 5 to 8 and/or Bayview Park). Four monitoring wells, completed in 2009, are present within 250 m of the site to the east on the HMCS Haida property. There are an additional six monitoring wells just outside of the Study Area also on the HMCS Haida property.

4.4 Site Operating Records

There were no site operating records provided to Dillon as part of the Phase One ESA.
5.0 Interviews

Interview results have been incorporated into the relevant report sections. A summary of people interviewed, and additional information obtained during the interview is presented below.

5.1 Pier 5 – Royal Hamilton Yacht Club

Mr. Russ Parry, former Commodore of the Royal Hamilton Yacht Club, and Mr. Murray Thompson, Technical Director, were interviewed on October 31, 2014 at the time of the site visit. Mr. Parry is familiar with the site operations since 1958, and Mr. Thompson is familiar with the site operations since 1987. Mr. Parry stated that the main building is used as a restaurant, office space and banquet hall, and was constructed approximately 40 years ago. The building replaced an older structure that was built in the 1930’s and located to the north (now lawn area). The Jr. Sailor’s Building is used for the storage of dry materials including sailboats and boat rigging. Neither Mr. Parry nor Mr. Thompson were aware of any environmental concerns, including underground or above ground storage tanks, on the property.

Mr. Al Ross, of the Hamilton Port Authority was interviewed on October 20, 2014. Mr. Ross’s familiarity with activities at the site extends over the last 25 years. Mr. Ross was not aware of any environmental concerns associated with the property, or the presence of underground storage tanks.

5.2 Pier 6 and Pier 7 – Hamilton Port Authority

Kelly Flood, Marine Manager with the Hamilton Port Authority (HPA), was interviewed on October 22, 2014, during the site visit. Mr. Flood had recently joined the HPA, and is familiar with the most recent site activities only (within last 5 months). Mr. Flood stated that HPA activities include office/administration, refueling of boats, mechanical maintenance of HPA vehicles and general site/boat maintenance activities. Maintenance activities include winterizing of boats, which includes adding antifreeze in fall. Activities in the heated storage building included boat storage; however, in the past it was used for varnishing boats. Mr. Flood is not aware of any environmental concerns associated with the property.

Mr. Al Ross, of the HPA, was interviewed on October 20, 2014. Mr. Ross’s familiarity with HPA activities on Pier 6 extends over the last 25 years. Mr. Ross stated that above ground storage tanks are used for waste oil collection. In the past, there was once a portable 900L AST, located south of the existing building. There are no oil/water separators at the site. The heated storage building was once used for varnishing and painting of boats, and it is possible that spills occurred. He was not aware of any underground storage tanks associated with the building. Mr. Ross stated that there was the potential for coal piles, associated with historical activities, to have once been located on Pier 6. Mr. Ross is not aware of any environmental issues with the property.

Mr. Ross stated that older fuel storage tanks were once present in the area of the current marina USTs. The current tanks were installed after 1988 (two tanks installed in 1988, and the third tank added later). He stated that during removal of the old tanks, soil was removed; however, he did not know if contamination was detected. The current tanks are monitored for leaks, and he is not aware of any issues.
5.3 Pier 7 – Police Marine Unit

John Rayner, Facility Technician, Hamilton Police Services, was interviewed on October 22, 2014. Mr. Rayner is familiar with the last 19 years of operations at the Site. Mr. Rayner stated that the property is used by the Hamilton Police for marine police services, and the building includes three boat berths, office, lunchroom, lockers and weight room. In the past, on-site refueling of vehicles was conducted. Information obtained during the interview is incorporated into Site reconnaissance information reported in Section 6.

5.4 Pier 8 – Brewer's Marine Services

Robin Brewer, Owner of Brewers Marine Supplies, was interviewed on October 21, 2014 at the time of the visit. Ms. Brewer is familiar with the last 20 years of site activities. She stated that on-site operations include warehousing and distribution of mainly dry goods related to marine activities, including boat hardware as well as paint and cleaning supplies. Engine parts and motors are not stored at the site, nor are motors serviced at the site. She is not aware of any environmental concerns associated with their current operations. Ms. Brewer stated that prior to their operations, Laidlaw occupied the site.

Mr. Al Ross, of Hamilton Port Authority was interviewed on October 20, 2014. Mr. Ross is familiar with activities at the Brewers property over the last 25 years. Mr. Ross stated that underground fuel storage tanks were once present along the north side of the property in the vicinity of the current concrete pad. The tanks were removed and replaced with above ground storage tanks in the 1990’s. During this time, the property was operated by Laidlaw for trucking activities. A trucking repair shop was located on-site. Mr. Ross was not aware of any waste oil tanks on the property. Mr. Ross also stated that Laidlaw did not store garbage at the site.

5.5 Pier 8 – Hamilton Port Authority Shed 4 Area

Kelly Flood, Marine Manager with the Hamilton Port Authority, was interviewed on October 22, 2014. Mr. Flood has recently joined the Port Authority, and is familiar with the most recent site activities (within last 5 months) only. Shed 4 and the surrounding fenced lot is used for boat storage. The shed is currently not heated, but may have been heated when it was used for truck storage by Laidlaw (who once used the building). Mr. Flood was not familiar with the past usage of the two storage rooms in Shed 4, but believed that the eastern most room was the former wood shop, and had been heated at one time. The other storage may have been the mechanical room, as it appears that an air compressor was once located in this room.

Mr. Flood showed Dillon two steel container boxes that are located on the east portion of the lot. The northern container could not be accessed during the site visit. The southern container was accessible, and contained some mechanical parts, dock floatation equipment, rope etc. There was a moderate oily smell within the container.

Mr. Al Ross, of Hamilton Port Authority was interviewed on October 20, 2014. Mr. Ross’s familiarity with activities at Shed 4 extends over the last 25 years. Mr. Ross stated that Shed 4 was once used by Laidlaw for storage and maintenance of their trucks. No garbage was stored at the site.
5.6 Pier 8 – Harbour Marine Services

Maggie Tippett from Harbour Marine Services was interviewed. Maggie reported that she is familiar with the last 5 to 6 years of operations at the Site. The facility is used for mechanical maintenance on boats. No painting is conducted.

Mr. Al Ross, of the Hamilton Port Authority was interviewed on October 20, 2014. Mr. Ross is familiar with activities at the Site over the past 30 years. Mr. Ross stated that the building was erected by the Canadian Coast Guard (CCG) to store navigational buoys and other equipment at the time when the piers were busier. He is not aware of any storage tanks associated with the CCG use of the property. He is also not aware of any environmental issues associated with the property.

5.7 Pier 8 – Hamilton Port Authority (Shed 6)

Frank Montecalvo, Director of Operations for Ocean Ontario Towing Inc (Ocean). was interviewed on October 21, 2014. Ocean operates a tugboat service, and leases space from the Hamilton Port Authority for office and warehousing activities in the northeastern corner of Shed 6. He is familiar with the last 10 years of operation at the facility. He is not aware of the fuel oil tank being used while he has used the property. Mr. Montecalvo stated that mechanical maintenance and painting of tugboats is done on the boat when it is in the water, and that little maintenance activities are done in the warehouse. A small machine shop is present in the warehouse for tugboat repair activities. Lubrication oils, antifreeze, some batteries and small quantities of gasoline and paints are stored in the warehouse. Welding equipment used for general repair activities on the tug boats is also stored on-site. Empty lubricating oil drums and boat bilge water are picked up by Tesla Environmental for disposal.

Brian St. Pierre, of the International Longshoreman’s Association was interviewed on October 31, 2014. He is familiar with operations at the site since 1986. Mr. St. Pierre stated that the Longshoremen Association rents out the office located along the south side of the warehouse. The space is used for office and training purposes. For the last 10 years it has been used for labour dispatch. Two compressors are present in the warehouse for fire suppressant purposes. Mr. St. Pierre said that in warehouse, gasoline and lubrication oil use to be stored in drums (40 or 50 drums at a time). He was not aware of any significant spills. He did report that occasionally, garbage and construction debris has been illegally dumped on the premise; however, he is not aware of any of the debris posing as an environmental concern. Phosphate fertilizer was once stored outside in a “bubble” storage facility the west portion of the property. The facility was removed in the late 1980’s to early 1990’s. He was not aware of any other storage of large quantities of chemicals. There are no floor drains in warehouse.

5.8 Pier 8 – Bermingham Foundation Solutions

Interview pending

5.9 Pier 8 – Hamilton Port Authority (Shed 7)

Mr. Al Ross, of Hamilton Port Authority was interviewed on October 20, 2014. Mr. Ross’s familiarity with activities at Shed 7 extends over the last 25 years. Mr. Ross stated that Shed 7 is currently used for boat storage; however, it was once the operations terminal for the piers.
In the 1940’s it was used for maintenance operations. He is not aware of any environmental issues with the property.

5.10 Pier 8 – Navy League

David Mosiuk, Vice President of the Navy League, was interviewed on October 21, 2014. Mr. Mosiuk is familiar with on-site activities since 1971 (last 43 years). He stated that the facility is used as a Sea Cadets facility for training. On-site activities include gymnasium/hall, classrooms, kitchen and boat storage. The facility has been in operation since 1946. At the time of construction, the west side of the main building fronted onto the Hamilton harbor shore; however, this area was filled in the 1960’s to construct Pier 8. The results of the interview have been incorporated into the site reconnaissance descriptions.

5.11 Bayview Park

Werner Plessel, Executive Director of the Hamilton Waterfront Trust, was interviewed on October 22, 2014, during the site visit. Mr. Plessel stated that prior to the site becoming a park, it was used as a manufacturing operation by the Burlington Glass Works. Manufacturing operations ceased prior to 1900.
Site Reconnaissance

This section provides the results of Site reconnaissance activities that were conducted on April 19, 2013 and between October 22nd and October 31, 2014.

6.1 Pier 5 – Royal Hamilton Yacht Club

6.1.1 General Requirements

<table>
<thead>
<tr>
<th>Description of Information</th>
<th>Summary of Findings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date and time of Reconnaissance</td>
<td>April 19, 2013; October 31, 2014</td>
</tr>
<tr>
<td>Weather Conditions</td>
<td>12°C, Cloudy/10°C, Cloudy</td>
</tr>
<tr>
<td>Length of Time of Reconnaissance</td>
<td>2.0 hours (total)</td>
</tr>
<tr>
<td>Operational Status of Site</td>
<td>Active</td>
</tr>
<tr>
<td>Enhanced Investigation Property?</td>
<td>Yes (former port activities)</td>
</tr>
<tr>
<td>Name and Qualifications of Assessor</td>
<td>Darin Burr, P.Geo (QPESA)</td>
</tr>
</tbody>
</table>

Photographs of the property were taken on April 19, 2013 and October 31, 2014, and are provided in **Appendix H**. Those photos showing the site layout and potential environmental concerns are:

<table>
<thead>
<tr>
<th>Photo Number</th>
<th>Photo Orientation</th>
<th>Description</th>
<th>Potential Environmental Concern</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-1</td>
<td>West</td>
<td>Pool area north of RHYC Building</td>
<td>APEC#1a</td>
</tr>
<tr>
<td>1-2</td>
<td>North</td>
<td>Parking area looking north towards boat unloading area</td>
<td>APEC#1a</td>
</tr>
<tr>
<td>1-3</td>
<td>West</td>
<td>South side of RHYC Building</td>
<td>APEC#1a</td>
</tr>
<tr>
<td>1-4</td>
<td>East</td>
<td>Waste storage area north of storage building</td>
<td>APEC#1a</td>
</tr>
<tr>
<td>1-5</td>
<td>West</td>
<td>Parking Area</td>
<td>APEC#1a, APEC#1c</td>
</tr>
<tr>
<td>2-1</td>
<td>West</td>
<td>Parking Lot in south portion of property</td>
<td>APEC#1a, APEC#1c</td>
</tr>
<tr>
<td>3-1</td>
<td>Northwest</td>
<td>Small quantity fuel storage, behind Jr. Sailor’s Building</td>
<td>APEC#1d</td>
</tr>
<tr>
<td>3-2</td>
<td>South</td>
<td>Jr Sailor’s Building</td>
<td>APEC#1b</td>
</tr>
</tbody>
</table>

The approximate locations of photographs are shown in **Figure 4**.
### Specific Observations at the Phase One Property

The following summarizes the relevant observations made at the site during the Phase One ESA site visit.

<table>
<thead>
<tr>
<th>Description</th>
<th>Summary of Findings</th>
</tr>
</thead>
<tbody>
<tr>
<td>General description of above ground buildings</td>
<td>The property is approximately 260m long x 160 m wide, and fronts onto Leander Drive. The property includes a large parking lot in the south, boat storage area in the west, lawn area in the north, and four buildings, including the RHYC Building used for restaurant and office facilities, a Jr. Sailor’s Building used as a clubhouse, offices and boat equipment storage; a permanent storage building; and a portable wooden storage shed.</td>
</tr>
<tr>
<td></td>
<td>The RHYC Building is two stories with slab on grade construction, and has a footprint of approximately 1,200 m². Associated with this building is an outdoor pool, pool house, and large lawn area to the north. The building is used as a restaurant, banquet hall, offices as well as leased commercial space. An elevator was installed approximately 10 years ago.</td>
</tr>
<tr>
<td></td>
<td>The Jr Sailor’s Building is composed of wood frame and clap-board construction, and has two-stories with no basement. It was reported to have been built in the 1920s. The bottom floor is used for storage of sailing equipment, while the second floor is used for office/classrooms. It was reported that a small amount of boat maintenance activities are conducted in the building.</td>
</tr>
<tr>
<td></td>
<td>Two storage buildings are present. A ~30 m² concrete block one-storey building with slab on grade construction is located east of the main building, and at the time of the site visit was used for general storage of restaurant supplies and small quantities of paint associated with the main building. The building was reported to have been construction in the 1950s. A smaller wooded shed set on wooden blocks is located to the north, and is approximately 5 to 7 years old.</td>
</tr>
</tbody>
</table>
### Description

<table>
<thead>
<tr>
<th>Description</th>
<th>Summary of Findings</th>
</tr>
</thead>
<tbody>
<tr>
<td>General description of below ground structures</td>
<td>No below grade structures were reported to have been present</td>
</tr>
<tr>
<td>Details of above ground tanks</td>
<td>No above ground storage tanks were reported to have been present. Approximately a dozen plastic gasoline jerry-can style containers were observed in a locked cage in the exterior sail boat storage area south of the Jr. Sailor’s Building.</td>
</tr>
<tr>
<td>Details of below ground tanks</td>
<td>No below ground storage tanks are reported to be associated with the current buildings. A heating oil tank was potentially associated with the former RHYC building.</td>
</tr>
<tr>
<td>Potable and Non-Potable water sources</td>
<td>Water is supplied to the RHYC Building by piped municipal services. No other potable or non-potable water sources were observed.</td>
</tr>
<tr>
<td>Above ground utilities</td>
<td>No above ground utilities were observed.</td>
</tr>
<tr>
<td>Below ground utilities</td>
<td>Below ground utilities that potentially cross the site include hydro, water, natural gas, sanitary and storm sewers.</td>
</tr>
</tbody>
</table>

### Additional Site Information

<table>
<thead>
<tr>
<th>Relevant Information</th>
<th>Exit and entry points</th>
<th>Heating systems</th>
<th>Cooling systems</th>
<th>Drains, pits and sumps</th>
<th>Stains and corrosion</th>
<th>Current and former wells</th>
</tr>
</thead>
<tbody>
<tr>
<td>The property is accessed via driveways leading from Leander Drive to the south.</td>
<td>The RHYC Building is the only heated building on-site, and is heated by roof-mounted natural gas fired forced air furnaces. The former RHYC Building (now demolished) was potentially heated by furnace oil.</td>
<td>The RHYC Building is air conditioned by roof-mounted heat pump.</td>
<td>None noted at site.</td>
<td>Boat loading docks, with electrical powered hydraulic hoist were noted.</td>
<td>None noted at site</td>
<td>None noted</td>
</tr>
</tbody>
</table>
### Additional Site Information

<table>
<thead>
<tr>
<th></th>
<th>Relevant Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sewage works</td>
<td>Washrooms are present in the RHYC Building</td>
</tr>
<tr>
<td>Ground surface and cover type</td>
<td>Asphalt surfaced parking and boat storage areas; lawn located north of RHYC Building</td>
</tr>
<tr>
<td>Current or former railway lines/spurs</td>
<td>None noted</td>
</tr>
<tr>
<td>Areas of stained soil, vegetation or pavement</td>
<td>No areas of significantly stained soil, vegetation or pavement observed outside of the shed.</td>
</tr>
<tr>
<td>Stressed vegetation</td>
<td>None noted</td>
</tr>
<tr>
<td>Fill material</td>
<td>Site is built on reclaimed harbour that contains fill.</td>
</tr>
<tr>
<td>Unidentified substances</td>
<td>No unidentified substances were observed.</td>
</tr>
</tbody>
</table>

Based upon our review of the available information, the following Potentially Contaminating Activities (PCAs) have been identified:

**On site**

- Boat maintenance activities, including storage of small quantities of fuels, associated with Jr. Sailor’s Building (PCA #27)
- Potential former heating oil tank associated with former RHYC building (PCA #28)
- Fill of unknown quality used to construct Pier 5 (PCA #30)
- Historical port activities, including operation and maintenance of wharves and docks (PCA #44)

**Off site within Phase One Study Area**

- Former glass manufacturing activities at Bayview Park located immediately upgradient of site. Potential for groundwater impacts to property (PCA #29)

### Enhanced Investigation Property

This site is considered to be an Enhanced Investigation Property, as per Section 32(1)(b) of O.Reg. 153/04, as it had historically been used as port lands prior to its current development. The information presented below relates to former port activities.

<table>
<thead>
<tr>
<th>Description</th>
<th>Summary of Findings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operations at the property, including processing or manufacturing</td>
<td>Historically, property used for industrial/commercial activities (warehousing and docks)</td>
</tr>
<tr>
<td>Description</td>
<td>Summary of Findings</td>
</tr>
<tr>
<td>-----------------------------------------------------------------</td>
<td>-------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Hazardous materials used or stored</td>
<td>No information available on historical industrial/commercial activities.</td>
</tr>
<tr>
<td>Products manufactured</td>
<td>No information available on historical industrial/commercial activities</td>
</tr>
<tr>
<td>By-products and wastes</td>
<td>No information available on historical industrial/commercial activities</td>
</tr>
<tr>
<td>Raw materials handled and storage locations</td>
<td>Fire insurance plans indicate that coal was stored at the site. Warehousing and coal storage is shown to have occurred at the east portion of the Pier 5 including the current lawn area north of the RHYC building.</td>
</tr>
<tr>
<td>Details of drums, totes and bins</td>
<td>No information available on historical industrial/commercial activities</td>
</tr>
<tr>
<td>Details of oil/water separators, including location, installation date, source of incoming liquid and effluent discharge location</td>
<td>No information available on historical site operations; however, the use of oil/water separators is not expected</td>
</tr>
<tr>
<td>Equipment and vehicle maintenance areas, including locations of maintenance, fluid storage and waste storage areas</td>
<td>No information available on historical industrial/commercial activities</td>
</tr>
<tr>
<td>Spills including dates, locations, materials and volume</td>
<td>No information available on historical industrial/commercial activities</td>
</tr>
<tr>
<td>Liquid discharge points such as water and french drains</td>
<td>No information available on historical industrial/commercial activities</td>
</tr>
<tr>
<td>Operations at the property including processing, manufacturing and equipment used</td>
<td>No information available on historical industrial/commercial activities</td>
</tr>
<tr>
<td>Hydraulic lift equipment at the property, including elevators, in-ground hoists and loading docks</td>
<td>No information available on historical industrial/commercial activities</td>
</tr>
</tbody>
</table>

### 6.1.3 Written Description of Investigation

Site reconnaissance field notes are included in Appendix G and detailed description in Section 6.1.2 to fulfill this requirement. Interview notes are included in Appendix G.
## 6.2 Pier 6 and 7 – Hamilton Port Authority

### 6.2.1 General Requirements

<table>
<thead>
<tr>
<th>Description of Information</th>
<th>Summary of Findings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date and time of Reconnaissance</td>
<td>April 19, 2013 and October 22, 2014</td>
</tr>
<tr>
<td>Weather Conditions</td>
<td>12°C, cloudy/10°C, Slightly rainy</td>
</tr>
<tr>
<td>Length of Time of Reconnaissance</td>
<td>2.0 hours (total)</td>
</tr>
<tr>
<td>Operational Status of Site</td>
<td>Active</td>
</tr>
<tr>
<td>Enhanced Investigation Property?</td>
<td>Yes (used for maintenance operations)</td>
</tr>
<tr>
<td>Name and Qualifications of Assessor</td>
<td>Darin Burr, P.Geo (QPESA)</td>
</tr>
</tbody>
</table>

Photographs of the property were taken on April 19, 2013 and October 22, 2014 and are provided in Appendix H. Those photos showing the site layout and potential environmental concerns are:

<table>
<thead>
<tr>
<th>Photo Number</th>
<th>Photo Orientation</th>
<th>Description</th>
<th>Potential Environmental Concern</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-1</td>
<td>Southwest</td>
<td>Admin/Maintenance Building – shop, SW corner</td>
<td>APEC #2b</td>
</tr>
<tr>
<td>4-2</td>
<td>South</td>
<td>Admin/Maintenance Building – main service shop, flammable chemical storage locker along south side</td>
<td>APEC #2b</td>
</tr>
<tr>
<td>4-3</td>
<td>Northeast</td>
<td>Admin/Maintenance Building – oil recovery area, NE corner of shop</td>
<td>APEC #2b</td>
</tr>
<tr>
<td>4-4</td>
<td>Northeast</td>
<td>Admin/Maintenance Building – 1,300L above ground storage tank in oil recovery area</td>
<td>APEC #2b</td>
</tr>
<tr>
<td>4-5</td>
<td>Northeast</td>
<td>Admin/Maintenance Building - Boat dock area</td>
<td>APEC #2b</td>
</tr>
<tr>
<td>4-6</td>
<td>Northwest</td>
<td>Admin/Maintenance Building – shop, battery storage</td>
<td>APEC #2b</td>
</tr>
<tr>
<td>4-7</td>
<td>Southwest</td>
<td>Admin/Maintenance Building – shop, equipment storage</td>
<td>APEC #2b</td>
</tr>
<tr>
<td>4-8</td>
<td>Southwest</td>
<td>Admin/Maintenance Building – shop floor</td>
<td>APEC #2b</td>
</tr>
<tr>
<td>4-9</td>
<td>Northwest</td>
<td>Admin/Maintenance Building – shop floor, above ground vehicle hoist</td>
<td>APEC #2b</td>
</tr>
<tr>
<td>Photo Number</td>
<td>Photo Orientation</td>
<td>Description</td>
<td>Potential Environmental Concern</td>
</tr>
<tr>
<td>-------------</td>
<td>-------------------</td>
<td>-------------------------------------------------------------------------------</td>
<td>----------------------------------</td>
</tr>
<tr>
<td>4-10</td>
<td>n/a</td>
<td>Admin/Maintenance Building – 2nd floor storage</td>
<td>APEC #2b</td>
</tr>
<tr>
<td>4-11</td>
<td>n/a</td>
<td>Admin/Maintenance Building – hardware and paint storage</td>
<td>APEC #2b</td>
</tr>
<tr>
<td>4-12</td>
<td>Southeast</td>
<td>Admin/Maintenance Building, west side</td>
<td>APEC #2b</td>
</tr>
<tr>
<td>4-13</td>
<td>East</td>
<td>Marina fuel USTs and pump island</td>
<td>APEC #2c</td>
</tr>
<tr>
<td>4-14</td>
<td>East</td>
<td>Marina fuel USTs</td>
<td>APEC #2c</td>
</tr>
<tr>
<td>4-15</td>
<td>East</td>
<td>Admin/Maintenance Building sewage pumping tank</td>
<td>APEC #2b</td>
</tr>
<tr>
<td>4-16</td>
<td>East</td>
<td>Boat storage area</td>
<td>APEC #2a</td>
</tr>
<tr>
<td>4-17</td>
<td>Northeast</td>
<td>Waste storage area by Admin/Maintenance Building, Heated Storage Building in background</td>
<td>APEC #2b, 2d,</td>
</tr>
<tr>
<td>4-18</td>
<td>East</td>
<td>James Street Pier – former ferry berth</td>
<td>APEC #2f</td>
</tr>
<tr>
<td>4-19</td>
<td>East</td>
<td>Heated Storage Building</td>
<td>APEC #2d, 2e</td>
</tr>
<tr>
<td>4-20</td>
<td>Northeast</td>
<td>Heated Storage Building – former furnace room?</td>
<td>APEC #2d, 2e</td>
</tr>
</tbody>
</table>

The approximate locations of photographs are shown in Figure 4.

### Specific Observations at the Phase One Property

The following summarizes the relevant observations made at the site during the Phase One ESA site visit.

<table>
<thead>
<tr>
<th>Description</th>
<th>Summary of Findings</th>
</tr>
</thead>
<tbody>
<tr>
<td>General description of above ground buildings</td>
<td>The site extends over Pier 6 and 7, is approximately 240m long (east-west) and 140m wide, and is irregular in shape. Notable features of the property include two buildings (Administration/Maintenance Building and Heated Storage Building), James Street Pier and shower facility, a boat refuelling pier along the west side of the site and a boat storage area along the south side, abuting Guise Street West. Boats are also stored on James Street Pier and south of the Police Marine Unit. The Administration/Maintenance Building is used for offices, parts and equipment storage and maintenance operations. The north side of the building has 3 covered boat berths. The building has a footprint of approximately</td>
</tr>
</tbody>
</table>
### Description | Summary of Findings
---|---
1,400m², and is two-storeys, with no basement. It has a wood frame construction with metal siding. An addition was added to the northwest side of the building for office space. | 

The Heated Storage Building is a one-storey rectangular structure with slab on grade construction. It has an area of approximately 280m². It is currently used for heated boat storage; however, it had once been used for varnishing/painting of boats. 

At the north end of James Street Pier, is a building used for public washrooms, showers and picnic area. James Street Pier is a former ferry berth.

| General description of below ground structures | No below grade structures were reported, with the exception of a large municipal sewer tank located near James Street |
| Details of above ground tanks | A ~1,300 L above ground tank used to store spent motor oil was present in the oil recovery area of the Admin/Maintenance Building shop. In addition, approximately six 20L containers of used motor oil, two 200L drums of oil and a parts degreasing station were present. The oil recovery area is equipped with secondary containment in the form of a concrete floor sill. No floor drains were observed. |
| Details of below ground tanks | Three petroleum fuel underground storage tanks, and three fuel pumps are present in the boat refueling area north of the Administration/Maintenance Building. |
| Potable and Non-Potable water sources | Water is supplied by piped municipal services. No other potable or non-potable water sources were observed. |
| Above ground utilities | Electricity is provided by overhead services |
| Below ground utilities | Below ground utilities include water, natural gas, sanitary and storm sewers. |

#### Additional Site Information

<table>
<thead>
<tr>
<th>Relevant Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exit and entry points</td>
</tr>
<tr>
<td>Description</td>
</tr>
<tr>
<td>------------------------------</td>
</tr>
<tr>
<td>Heating systems</td>
</tr>
<tr>
<td>Cooling systems</td>
</tr>
<tr>
<td>Drains, pits and sumps</td>
</tr>
<tr>
<td>Stains and corrosion</td>
</tr>
<tr>
<td>Current and former wells</td>
</tr>
<tr>
<td>Sewage works</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Ground surface and cover type</td>
</tr>
<tr>
<td>Current or former railway lines/spurs</td>
</tr>
<tr>
<td>Areas of stained soil, vegetation or pavement</td>
</tr>
<tr>
<td>Stressed vegetation</td>
</tr>
<tr>
<td>Fill material</td>
</tr>
<tr>
<td>Unidentified substances</td>
</tr>
</tbody>
</table>

Based upon our review of the available information, the following Potentially Contaminating Activities (PCAs) have been identified:
On site

- Use of property (inside Administration/Maintenance Building and outside boat storage areas) for boat and vehicle maintenance activities (PCA #27)
- Three petroleum fuel USTs and associated pumping equipment (PCA #28)
- Historical presence of furnace oil AST/UST associated with Heated Storage Building (PCA #28)
- Fill of unknown quality used to reclaim land and construction of Pier 6 and 7 (PCA#30)
- Historical port activities, including operation and maintenance of wharves and docks (PCA #44)
- Former ferry terminal operations at James Street Pier (PCA #52)

Off site within Phase One Study Area

- Former commercial autobody shop on Hughson Road upgradient of site (PCA #10)
- Former gasoline outlet on Hughson Road upgradient of Site (PCA #28)

6.2.2.1 Enhanced Investigation Property

This site is considered to be an Enhanced Investigation Property, as per Section 32(1)(b) of O.Reg. 153/04 as it has been used for boat/vehicle maintenance operations, as a petroleum fuel outlet and historically for port activities.

<table>
<thead>
<tr>
<th>Description</th>
<th>Summary of Findings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operations at the property, including processing or manufacturing</td>
<td>Operations include administration offices for Hamilton Port Authority (HPA), maintenance of HPA vehicles and equipment, boat refuelling outlet, and storage/winterizing of boats. Historically, the Heated Storage Building was used for varnishing wooden boats and customized painting of boats.</td>
</tr>
<tr>
<td>Hazardous materials used or stored</td>
<td>Batteries and small quantities of paints, cleaners, thinners and solvents stored in the Administration/Maintenance Building shop. In the shop, hazardous chemicals that are being used are kept in a flammable storage locker. Unopened containers are kept in the parts area.</td>
</tr>
<tr>
<td>Products manufactured</td>
<td>None</td>
</tr>
<tr>
<td>By-products and wastes</td>
<td>Waste oil is produced from maintenance activities and temporarily stored in the oil recovery section of the Administration/Maintenance Building. Spent oil, glycol antifreeze and solvents (potentially kerosene) associated with parts cleaning are</td>
</tr>
</tbody>
</table>
Piers 5 to 8 and Bayview Park, Phase I ESA - DRAFT
Hamilton Waterfront Trust, Hamilton, ON
February 2015 – 14-1137

<table>
<thead>
<tr>
<th>Description</th>
<th>Summary of Findings</th>
</tr>
</thead>
<tbody>
<tr>
<td>taken away by Hotz Environmental Services, of Hamilton, Ontario. Light bulbs, paper and plastic are recycled and other non-recyclable wastes are placed in garbage bins picked up by a waste contractor.</td>
<td></td>
</tr>
<tr>
<td>Raw materials handled and storage locations</td>
<td>No raw materials handled or stored on-site</td>
</tr>
<tr>
<td>Details of drums, totes and bins</td>
<td>Two 200 L steel drums of waste oil, and approximately six 20L plastic pails of waste oil and/or glycol antifreeze are stored in the oil recovery section of the main shop.</td>
</tr>
<tr>
<td>Details of oil/water separators, including location, installation date, source of incoming liquid and effluent discharge location</td>
<td>No oil/water separators reported on-site</td>
</tr>
<tr>
<td>Equipment and vehicle maintenance areas, including locations of maintenance, fluid storage and waste storage areas</td>
<td>Equipment and vehicle maintenance activities occur in Administration/Maintenance Building (1st floor). Fluid is stored in the oil recovery area of the main shop. Solid waste is kept in storage bins outside the main shop.</td>
</tr>
<tr>
<td>Spills including dates, locations, materials and volume</td>
<td>No information on reported spills was provided.</td>
</tr>
<tr>
<td>Liquid discharge points such as water and french drains</td>
<td>No discharge points</td>
</tr>
<tr>
<td>Operations at the property including processing, manufacturing and equipment used</td>
<td>No manufacturing occurs on-site; however equipment used for maintenance purposes includes power wood saws, air compressor, machining equipment and welding equipment. Various gasoline powered portable equipment/tools is stored in the tool room.</td>
</tr>
<tr>
<td>Hydraulic lift equipment at the property, including elevators, in-ground hoists and loading docks</td>
<td>One electric above ground hydraulic hoist is in the shop in the main building. An air compressor is located in the tool room. A mobile electric powered hydraulic hoist used for boat lifting and transport was present between the Administration/Maintenance Building and Heated Storage Building.</td>
</tr>
</tbody>
</table>

6.2.3 Written Description of Investigation

Site reconnaissance field notes are included in Appendix G and detailed description in Section 6.2.2 to fulfill this requirement. Interview notes are included in Appendix G.
6.3 Pier 7 – Police Marine Unit

6.3.1 General Requirements

<table>
<thead>
<tr>
<th>Description of Information</th>
<th>Summary of Findings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date and time of Reconnaissance</td>
<td>October 22, 2014</td>
</tr>
<tr>
<td>Weather Conditions</td>
<td>14°C, Sunny</td>
</tr>
<tr>
<td>Length of Time of Reconnaissance</td>
<td>1.5 hours</td>
</tr>
<tr>
<td>Operational Status of Site</td>
<td>Active</td>
</tr>
<tr>
<td>Enhanced Investigation Property?</td>
<td>Yes (Industrial)</td>
</tr>
<tr>
<td>Name and Qualifications of Assessor</td>
<td>Darin Burr, P.Geo (QPESA)</td>
</tr>
</tbody>
</table>

Photographs of the property were taken on October 22, 2014 and are provided in Appendix H. Those photos showing the site layout and potential environmental concerns are:

<table>
<thead>
<tr>
<th>Photo Number</th>
<th>Photo Orientation</th>
<th>Description</th>
<th>Potential Environmental Concern</th>
</tr>
</thead>
<tbody>
<tr>
<td>5-1</td>
<td>West</td>
<td>South and east side of building</td>
<td>APEC #3a</td>
</tr>
<tr>
<td>5-2</td>
<td>West</td>
<td>Pier</td>
<td>APEC #3a</td>
</tr>
<tr>
<td>5-3</td>
<td>West</td>
<td>Office and washroom</td>
<td>n/a</td>
</tr>
<tr>
<td>5-4</td>
<td>West</td>
<td>Boathouse</td>
<td>n/a</td>
</tr>
<tr>
<td>5-5</td>
<td>East</td>
<td>Chemical storage cabinet</td>
<td>APEC #3a</td>
</tr>
<tr>
<td>5-6</td>
<td>South</td>
<td>Furnace Room</td>
<td>APEC #3b</td>
</tr>
<tr>
<td>5-7</td>
<td>East</td>
<td>Furnace Oil AST</td>
<td>APEC #3b</td>
</tr>
<tr>
<td>5-8</td>
<td>West</td>
<td>Janitorial supply chemical storage</td>
<td>n/a</td>
</tr>
<tr>
<td>5-9</td>
<td>West</td>
<td>Oil storage drum in boathouse</td>
<td>APEC #3a</td>
</tr>
<tr>
<td>5-10</td>
<td>South</td>
<td>Boat maintenance area</td>
<td>APEC #3a</td>
</tr>
<tr>
<td>5-11</td>
<td>South</td>
<td>Sewage pumping station</td>
<td>n/a</td>
</tr>
<tr>
<td>5-12</td>
<td>East</td>
<td>Exterior fuel underground storage tank location</td>
<td>APEC #3c</td>
</tr>
</tbody>
</table>

The approximate locations of photographs are shown in Figure 4.

6.3.2 Specific Observations at the Phase One Property

The following summarizes the relevant observations made at the site during the Phase One ESA site visit.
### Description

| General description of above ground buildings | Site consists of a ~4500m² area comprised of a boat harbour (north end), and land lot (south end). A 330m² 2-storey building is located on the land portion, and has a flat roof, wood frame/clad construction on a slab on grade foundation. North part of building is built on steel piers and is a 3-bay boathouse. South part of building used for offices. Asphalt surface surrounds the building. Piers around the harbour are asphalt surfaced. |
| General description of below ground structures | No below grade structures |
| Details of above ground tanks | One 900L above ground storage tank used for furnace oil located on exterior west wall. Secondary containment present. Tank replaces an older tank that has since been removed. |
| Details of below ground tanks | 4,500 L gasoline steel underground storage tank and associated pump located east of building. No longer in use. Current contents unknown |
| Potable and Non-Potable water sources | Potable water is supplied from piped municipal water system. No other potable or non-potable water sources were observed. |
| Above ground utilities | No above ground utilities were observed. |
| Below ground utilities | Buried sanitary sewer and associated pumping station. Below ground water, telephone and hydro utilities. |

### Additional Site Information

<table>
<thead>
<tr>
<th>Relevant Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exit and entry points</td>
</tr>
<tr>
<td>Heating systems</td>
</tr>
<tr>
<td>Cooling systems</td>
</tr>
<tr>
<td>Drains, pits and sumps</td>
</tr>
</tbody>
</table>
### Additional Site Information

<table>
<thead>
<tr>
<th>Additional Site Information</th>
<th>Relevant Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stains and corrosion</td>
<td>No significant stains/corrosion were observed.</td>
</tr>
<tr>
<td>Current and former wells</td>
<td>None noted</td>
</tr>
<tr>
<td>Sewage works</td>
<td>Washrooms discharge to an on-site holding tank and pumping station, which discharges into the City of Hamilton sanitary sewage system</td>
</tr>
<tr>
<td>Ground surface and cover type</td>
<td>Asphalt and concrete, with some grass.</td>
</tr>
<tr>
<td>Current or former railway lines/spurs</td>
<td>None noted</td>
</tr>
<tr>
<td>Areas of stained soil, vegetation or pavement</td>
<td>No areas of significantly stained soil, vegetation, or pavement observed.</td>
</tr>
<tr>
<td>Stressed vegetation</td>
<td>None noted.</td>
</tr>
<tr>
<td>Fill material</td>
<td>Site is built on reclaimed harbour that contains fill. Fill may also be associated with on-site docks/piers.</td>
</tr>
<tr>
<td>Unidentified substances</td>
<td>No unidentified substances were observed.</td>
</tr>
</tbody>
</table>

Based upon our review of the available information, the following Potentially Contaminating Activities (PCAs) have been identified:

**On site**

- Boat maintenance activities, including storage of small quantities of chemicals, associated with boathouse (PCA #27)
- Exterior furnace oil above ground storage tank located along west side of building (PCA #28)
- Gasoline underground storage tank located southeast of building (PCA #28)
- Police Marine Unit – Fill of unknown quality to build pier and berms (PCA #30)
- Historical port activities, including operation and maintenance of wharves and docks (PCA #44)

**Off site within Phase One Study Area**

- N/A

### 6.3.2.1 Enhanced Investigation Property

This site is considered to be an Enhanced Investigation Property as per Section 32(1)(b) of O.Reg. 153/04 as bulk storage and dispensing of petroleum fuel had occurred on the site in the past. In addition, the site has been historical used for port activities.
<table>
<thead>
<tr>
<th>Description</th>
<th>Summary of Findings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operations at the property, including processing or manufacturing</td>
<td>Office and police station for the Hamilton Police Marine Unit. Activities include office space, kitchen, and storage of boats. Historically boat refuelling activities were performed.</td>
</tr>
<tr>
<td>Hazardous materials used or stored</td>
<td>Some small quantities of oils, degreasers and cleaners are located in the boathouse.</td>
</tr>
<tr>
<td>Products manufactured</td>
<td>No products are manufactured.</td>
</tr>
<tr>
<td>By-products and wastes</td>
<td>Wastes are limited to domestic garbage. Wastes produced during maintenance of boats are removed by contractors.</td>
</tr>
<tr>
<td>Raw materials handled and storage locations</td>
<td>No raw materials used/stored at site.</td>
</tr>
<tr>
<td>Details of drums, totes and bins</td>
<td>One half full 200L drum of 2-cycle motor oil, and one five gallon container of motor oil was present in the boathouse.</td>
</tr>
<tr>
<td>Details of oil/water separators, including location, installation date,</td>
<td>No oil/water separators are present at the site.</td>
</tr>
<tr>
<td>liquid and effluent discharge location</td>
<td></td>
</tr>
<tr>
<td>Equipment and vehicle maintenance areas, including locations of</td>
<td>Boats are maintained by contractors; however, some fluid storage areas (small quantities) was observed in the boat house.</td>
</tr>
<tr>
<td>maintenance, fluid storage and waste storage areas</td>
<td></td>
</tr>
<tr>
<td>Spills including dates, locations, materials and volume</td>
<td>No information on spills was available</td>
</tr>
<tr>
<td>Liquid discharge points such as water and french drains</td>
<td>No known discharge points identified.</td>
</tr>
<tr>
<td>Operations at the property including processing, manufacturing and</td>
<td>Activities include office space, kitchen, and storage of boats. Historically boat refuelling activities were performed. No manufacturing activities are performed</td>
</tr>
<tr>
<td>equipment used</td>
<td></td>
</tr>
<tr>
<td>Hydraulic lift equipment at the property, including elevators, in-</td>
<td>No hydraulic lift equipment was observed</td>
</tr>
<tr>
<td>ground hoists and loading docks</td>
<td></td>
</tr>
</tbody>
</table>

6.3.3 Written Description of Investigation

Dillon has included our site reconnaissance field notes in Appendix G and detailed description in Section 6.3.2 to fulfill this requirement.
### General Requirements

<table>
<thead>
<tr>
<th>Description of Information</th>
<th>Summary of Findings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date and time of Reconnaissance</td>
<td>April 19, 2013, October 21, 2014</td>
</tr>
<tr>
<td>Weather Conditions</td>
<td>11°C, Cloudy/8°C, Cloudy with some rain</td>
</tr>
<tr>
<td>Length of Time of Reconnaissance</td>
<td>2 hours (total)</td>
</tr>
<tr>
<td>Operational Status of Site</td>
<td>Active (office and warehousing)</td>
</tr>
<tr>
<td>Enhanced Investigation Property?</td>
<td>Yes (formerly used for truck maintenance, mill, airplane hangar)</td>
</tr>
<tr>
<td>Name and Qualifications of Assessor</td>
<td>Darin Burr, P.Geo (QPESA)</td>
</tr>
</tbody>
</table>

Photographs of the property were taken on April 19, 2013 and October 21, 2014 and are provided in Appendix H. Those photos showing the site layout and potential environmental concerns are:

<table>
<thead>
<tr>
<th>Photo Number</th>
<th>Photo Orientation</th>
<th>Description</th>
<th>Potential Environmental Concern</th>
</tr>
</thead>
<tbody>
<tr>
<td>6-1</td>
<td>West</td>
<td>Front of building and parking area</td>
<td>APEC #4a</td>
</tr>
<tr>
<td>6-2</td>
<td>Northeast</td>
<td>Rear Loading Dock and yard</td>
<td>APEC #4a</td>
</tr>
<tr>
<td>6-3</td>
<td>Northeast</td>
<td>North side of building, showing concrete pads (potential former fuel storage area?) and two-storey building located at north end of building complex</td>
<td>APEC #4b</td>
</tr>
<tr>
<td>6-4</td>
<td>East</td>
<td>Inside Building, 1st floor showroom, small volume paint storage</td>
<td>APEC #4a</td>
</tr>
<tr>
<td>6-5</td>
<td>North</td>
<td>Inside warehouse, floor drains shown</td>
<td>APEC #4a</td>
</tr>
<tr>
<td>6-6</td>
<td>Northwest</td>
<td>Rear yard behind warehouse, showing yard and boat storage area</td>
<td>APEC #4a</td>
</tr>
<tr>
<td>6-7</td>
<td>Southeast</td>
<td>Metal drum storage area for damaged paint containers.</td>
<td>APEC #4a</td>
</tr>
</tbody>
</table>

The approximate locations of photographs are shown in Figure 4.
Specific Observations at the Phase One Property

The following summarizes the relevant observations made at the site during the Phase One ESA site visit.

<table>
<thead>
<tr>
<th>Description</th>
<th>Summary of Findings</th>
</tr>
</thead>
<tbody>
<tr>
<td>General description of above ground buildings</td>
<td>Property consists of a 9000m² trapezoidal shaped area comprising an L-shaped back-split style building complex, equipment yard and parking areas. The multi-level building consists of both office space and warehousing, and appears to consist of 4 distinct, but attached buildings. The building in the southwest corner of the complex is a one-storey 260m² building used for showroom and office space, as well as some dry good storage, and storage of small volume containers of paints and thinners. The building located in the southeast corner of the complex is a 280m² three-storey back-split building used as a showroom, kitchen and warehouse. A 650m² single storey warehouse is attached to the north side of the building complex. The warehouse consists of steel frame, concrete block walls on a slab on grade concrete floor. Several large truck bay doors are located on the east side of the warehouse, but have been blocked off. A loading dock is present along the west side of the building. North of the warehouse, is a 2 storey concrete block building with an area of approximately 180m². This building is not in use, and was not accessible at the time of the site visit. Surrounding the buildings is a gravel yard (west, north and east of the warehouse), and asphalt parking areas, east and west of the office buildings.</td>
</tr>
<tr>
<td>General description of below ground structures</td>
<td>No below grade structures were observed.</td>
</tr>
<tr>
<td>Details of above ground tanks</td>
<td>No above ground tanks were observed; however, interview results indicate that above ground fuel storage tanks were once located along the north side of the building. The exact former location of these tanks is not known</td>
</tr>
<tr>
<td>Details of below ground tanks</td>
<td>Available records and interview results indicate that below ground tanks were once present at the site; however, the status of</td>
</tr>
<tr>
<td>Description</td>
<td>Summary of Findings</td>
</tr>
<tr>
<td>--------------------------------------</td>
<td>-------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td></td>
<td>these tanks is not known. A large concrete pad was observed along the north side of</td>
</tr>
<tr>
<td></td>
<td>the building, and it is speculated that these pads may have been associated with the</td>
</tr>
<tr>
<td></td>
<td>former tanks.</td>
</tr>
<tr>
<td>Potable and Non-Potable water sources</td>
<td>Potable water is provided by municipality (piped water). No other on-site potable or</td>
</tr>
<tr>
<td></td>
<td>non-potable water sources were observed.</td>
</tr>
<tr>
<td>Above ground utilities</td>
<td>Overhead electricity</td>
</tr>
<tr>
<td>Below ground utilities</td>
<td>Buried sanitary sewer. Below ground water, telephone and natural gas utilities. Storm</td>
</tr>
<tr>
<td></td>
<td>sewer catch basins in parking lot</td>
</tr>
<tr>
<td></td>
<td>An oil pipeline bisects the northern half of the property.</td>
</tr>
</tbody>
</table>

### Additional Site Information

<table>
<thead>
<tr>
<th>Relevant Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exit and entry points</td>
</tr>
<tr>
<td>Heating systems</td>
</tr>
<tr>
<td>Cooling systems</td>
</tr>
<tr>
<td>Drains, pits and sumps</td>
</tr>
<tr>
<td>Stains and corrosion</td>
</tr>
<tr>
<td>Current and former wells</td>
</tr>
<tr>
<td>Sewage works</td>
</tr>
</tbody>
</table>
### Additional Site Information

| Ground surface and cover type | Gravel covers the yard area west, east and north of the warehouse. Asphalt parking area surrounds the office buildings located at the south end of the property. The slope of the escarpment separating the north and south portions of the property is treed. At the time of the site visit, some wooden pallets and several steel drums were stored in the yard east of the warehouse. Several small boat trailers were located along the east fence line. A steel 10m long steel cargo box was located west of the warehouse loading docks. |
| Current or former railway lines/spurs | None noted |
| Areas of stained soil, vegetation or pavement | No areas of significantly stained soil, vegetation, or pavement observed. |
| Stressed vegetation | Sparse vegetation was observed in the gravel area behind (east of) the warehouse. |
| Fill material | Site is built on reclaimed harbour that contains fill. Fill may also be associated with on-site docks/piers. |
| Unidentified substances | No unidentified substances were observed. |

Based upon our review of the available information, the following Potentially Contaminating Activities (PCAs) have been identified:

**On site**

- Brewers - Fill below north portions of Site used to construct Pier 8 (PCA #30)
- Brewers – Potential former above ground and/or below ground fuel storage tanks located north of building and potential historical fuel tanks associated with the former location of an airplane hangar at the property (PCA #28)
- Brewers – Former truck maintenance activities associated with the past use of the site as a trucking depot when the site was used by Laidlaw (PCA #11)
- Historical use of the site as an airplane hangar operations (PCA #3)
- Historical use of the site as a Laidlaw trucking terminal/depot (PCA #11)
- Potential impacts from oil pipeline bisecting northern portion of yard (PCA #14)
- Historical use of the site for power manufacturing (PCA #18)
- Former petroleum fuel storage tanks associated with former use of the site as a trucking terminal (PCA #28)
- Potential presence of a fuel storage tank associated with historical airplane hangar operations (PCA #28)
- Fill of unknown quality to build pier (PCA #30)
- Historical port activities, including operation and maintenance of wharves and docks (PCA #44)
- Potential for spillage of chemicals/paints associated with warehousing activities at Brewers Marine Supply (PCA #Other 1)

Off site within Phase One Study Area

- N/A

### Enhanced Investigation Property

This site is considered to be an Enhanced Investigation Property, as per Section 32(1)(b) of O.Reg. 153/04 as it has historically been used as a vehicle maintenance area when the property was operated as a trucking terminal.

<table>
<thead>
<tr>
<th>Description</th>
<th>Summary of Findings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operations at the property, including processing or manufacturing</td>
<td>On-site building and surrounding yard historically used as a trucking terminal, including vehicle maintenance and truck refuelling area prior to occupation by current tenant (Brewers Marine Services). Historical records indicate that the site was once used as a mill.</td>
</tr>
<tr>
<td>Hazardous materials used or stored</td>
<td>Historical materials used/stored with former trucking firm, airplane hangar and mill unknown</td>
</tr>
<tr>
<td>Products manufactured</td>
<td>Historical information unknown; however, manufacturing is believed to have taken place when the site was used as a mill</td>
</tr>
<tr>
<td>By-products and wastes</td>
<td>Potential waste oils/chemicals associated with former use of the site by trucking firm and/or airplane hangar. By-products and wastes generated by former use of the site as a mill are unknown</td>
</tr>
<tr>
<td>Raw materials handled and storage locations</td>
<td>Historical information unknown</td>
</tr>
<tr>
<td>Details of drums, totes and bins</td>
<td>Historical information unknown</td>
</tr>
<tr>
<td>Details of oil/water separators, including location, installation date, source of incoming liquid and effluent discharge location</td>
<td>Historical information unknown</td>
</tr>
<tr>
<td>Equipment and vehicle maintenance areas, including locations of maintenance, fluid storage and waste storage areas</td>
<td>It is speculated that the current warehouse was used as a service bay garage by the trucking firm, and therefore fluid storage and waste storage areas may have existed.</td>
</tr>
<tr>
<td>Description</td>
<td>Summary of Findings</td>
</tr>
<tr>
<td>---------------------------------------------------------------------------</td>
<td>-------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Spills including dates, locations, materials and volume</td>
<td>Historical information unknown</td>
</tr>
<tr>
<td>Liquid discharge points such as water and french drains</td>
<td>Historical information unknown</td>
</tr>
<tr>
<td>Operations at the property including processing, manufacturing and equipment used</td>
<td>Former use of the on-site building as a truck maintenance garage, associated with the past use of the site as a trucking terminal. Site was historically used as a airplane hangar and mill (buildings since removed).</td>
</tr>
<tr>
<td>Hydraulic lift equipment at the property, including elevators, in-ground hoists and loading docks</td>
<td>Historical information unknown</td>
</tr>
</tbody>
</table>

6.4.3 **Written Description of Investigation**

Dillon has included our site reconnaissance field notes in Appendix G and detailed description in Section 6.4.2 to fulfill this requirement.

6.5 **Pier 8 – Hamilton Authority Shed 4 Area**

6.5.1 **General Requirements**

<table>
<thead>
<tr>
<th>Description of Information</th>
<th>Summary of Findings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date and time of Reconnaissance</td>
<td>October 22, 2014</td>
</tr>
<tr>
<td>Weather Conditions</td>
<td>10°C, Slightly rainy</td>
</tr>
<tr>
<td>Length of Time of Reconnaissance</td>
<td>1.0 hours</td>
</tr>
<tr>
<td>Operational Status of Site</td>
<td>Active</td>
</tr>
<tr>
<td>Enhanced Investigation Property?</td>
<td>No</td>
</tr>
<tr>
<td>Name and Qualifications of Assessor</td>
<td>Darin Burr, P.Geo (QPESA)</td>
</tr>
</tbody>
</table>

Photographs of the property were taken on April 19, 2013 and October 22, 2014, and are provided in Appendix H. Those photos showing the site layout and potential environmental concerns are:
<table>
<thead>
<tr>
<th>Photo Number</th>
<th>Photo Orientation</th>
<th>Description</th>
<th>Potential Environmental Concern</th>
</tr>
</thead>
<tbody>
<tr>
<td>8-1</td>
<td>Northeast</td>
<td>Shed 4, south side</td>
<td>APEC #6a</td>
</tr>
<tr>
<td>8-2</td>
<td>West</td>
<td>Rear portion of Shed, Northwest corner, some staining on gravel</td>
<td>APEC #6b</td>
</tr>
<tr>
<td>8-3</td>
<td>North</td>
<td>Storage Room</td>
<td>APEC #6b</td>
</tr>
<tr>
<td>8-4</td>
<td>North</td>
<td>Storage Room</td>
<td>APEC $6b</td>
</tr>
<tr>
<td>8-5</td>
<td>East</td>
<td>Yard area, showing container boxes</td>
<td>APEC #6a</td>
</tr>
<tr>
<td>8-6</td>
<td>Southwest</td>
<td>North side of building</td>
<td>APEC #6b</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The approximate locations of photographs are shown in Figure 4.

### 6.5.2 Specific Observations at the Phase One Property

The following summarizes the relevant observations made at the site during the Phase One ESA site visit.

<table>
<thead>
<tr>
<th>Description</th>
<th>Summary of Findings</th>
</tr>
</thead>
<tbody>
<tr>
<td>General description of above ground buildings</td>
<td>This area includes ~1.9 ha of gravel surface yard and a 90m x 36m drive-in style shed. Two fully enclosed storage rooms have a concrete floor, and are located within the eastern portion of the shed, with each room having an overhead door. The outside yard and shed are used primarily for boat storage.</td>
</tr>
</tbody>
</table>

The on-site shed is a one–one/half storey steel frame structure that is open on the south side. The rear wall is concrete block. The inside of the shed is gravel surfaced. It was reported to Dillon that the northern portion of the building was constructed first, and the south side of the building was added later. The shed was once used for the storage of garbage trucks when Laidlaw used the property. The rear portion of the building was a vehicle maintenance area.
<table>
<thead>
<tr>
<th>Description</th>
<th>Summary of Findings</th>
</tr>
</thead>
<tbody>
<tr>
<td>General description of below ground structures</td>
<td>No below grade structures were reported to have been present</td>
</tr>
<tr>
<td>Details of above ground tanks</td>
<td>No above ground storage tanks were reported to have been present. No above ground tanks were observed during the site visit.</td>
</tr>
<tr>
<td>Details of below ground tanks</td>
<td>No below ground storage tanks were reported to have been present at the site. No above ground tanks were observed during the site visit.</td>
</tr>
<tr>
<td>Potable and Non-Potable water sources</td>
<td>Water is not supplied to the shed. Water is supplied in the general area by piped municipal services. No other potable or non-potable water sources were observed.</td>
</tr>
<tr>
<td>Above ground utilities</td>
<td>No above ground utilities were observed.</td>
</tr>
<tr>
<td>Below ground utilities</td>
<td>Below ground utilities that potentially cross the site include hydro, water, natural gas, sanitary and storm sewers.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Additional Site Information</th>
<th>Relevant Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exit and entry points</td>
<td>Site is fenced, and access is via a gate on the southwest side and east side.</td>
</tr>
<tr>
<td>Heating systems</td>
<td>The open portion of the shed is not heated. One or both of the two storage rooms may once have been heated.</td>
</tr>
<tr>
<td>Cooling systems</td>
<td>The shed is not air conditioned.</td>
</tr>
<tr>
<td>Drains, pits and sumps</td>
<td>None noted in building</td>
</tr>
<tr>
<td>Stains and corrosion</td>
<td>Oil staining was observed on the gravel surface in the drive-in portion of the shed near the back wall. The staining appeared old. It is speculated that the oil staining is associated with the former use of the rear portion of the shed as a maintenance area when occupied by Laidlaw.</td>
</tr>
<tr>
<td>Current and former wells</td>
<td>None noted</td>
</tr>
<tr>
<td>Sewage works</td>
<td>No washrooms are present in the shed.</td>
</tr>
</tbody>
</table>
### Additional Site Information

<table>
<thead>
<tr>
<th>Additional Site Information</th>
<th>Relevant Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ground surface and cover type</td>
<td>Gravel surfaced.</td>
</tr>
<tr>
<td>Current or former railway lines/spurs</td>
<td>None noted</td>
</tr>
<tr>
<td>Areas of stained soil, vegetation or pavement</td>
<td>No areas of significantly stained soil, vegetation or pavement observed outside of the shed.</td>
</tr>
<tr>
<td>Stressed vegetation</td>
<td>No vegetated surfaces.</td>
</tr>
<tr>
<td>Fill material</td>
<td>Site is built on reclaimed harbour that contains fill.</td>
</tr>
<tr>
<td>Unidentified substances</td>
<td>No unidentified substances were observed. Two steel containers were located east of Shed 4. One container (north) could not be opened; however, the other container (south) was accessible. The container contained misc. engine parts, dock hardware etc, and there was a general oily smell. No staining was observed on the ground by the containers.</td>
</tr>
</tbody>
</table>

Based upon our review of the available information, the following Potentially Contaminating Activities (PCAs) have been identified:

**On site**

- Historical use of the site as a Laidlaw trucking terminal/depot (PCA #11)
- Oil pipeline bisecting southern portion of yard (PCA #14)
- Boat storage and potential repair (PCA #27)
- Fill below Site used to construct Pier 8 (PCA #30)
- Historical port activities, including operation and maintenance of wharves and docks (PCA #44)

**Off site within Phase One Study Area**

- N/A

### Enhanced Investigation Property

This site is considered to be an Enhanced Investigation Property, as per Section 32(1)(b) of O.Reg. 153/04 as it has historically been used as a vehicle maintenance area when the property was operated as a trucking terminal.
### Description vs Summary of Findings

<table>
<thead>
<tr>
<th>Description</th>
<th>Summary of Findings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operations at the property, including processing or manufacturing</td>
<td>On-site building and surrounding yard historically used as a trucking terminal, including vehicle maintenance prior to occupation by current tenant (Hamilton Port Authority).</td>
</tr>
<tr>
<td>Hazardous materials used or stored</td>
<td>Historical use unknown</td>
</tr>
<tr>
<td>Products manufactured</td>
<td>Historical operations are not believed to have involved manufacturing</td>
</tr>
<tr>
<td>By-products and wastes</td>
<td>Potential waste oils/chemicals associated with former use of the site by trucking firm</td>
</tr>
<tr>
<td>Raw materials handled and storage locations</td>
<td>Historical information unknown</td>
</tr>
<tr>
<td>Details of drums, totes and bins</td>
<td>Historical information unknown</td>
</tr>
<tr>
<td>Details of oil/water separators, including location, installation date, source of incoming liquid and effluent discharge location</td>
<td>Unknown; however, no evidence of oil/water separator observed during site visit.</td>
</tr>
<tr>
<td>Equipment and vehicle maintenance areas, including locations of maintenance, fluid storage and waste storage areas</td>
<td>It is speculated that the northern end of the on-site building was used as a service area.</td>
</tr>
<tr>
<td>Spills including dates, locations, materials and volume</td>
<td>Historical spillage information unknown; however, oil staining was observed on the ground along the north wall of the on-site building</td>
</tr>
<tr>
<td>Liquid discharge points such as water and french drains</td>
<td>Historical discharge points unknown</td>
</tr>
<tr>
<td>Operations at the property including processing, manufacturing and equipment used</td>
<td>Former use of the on-site building as a truck storage, and potential maintenance garage, associated with the past use of the site as a trucking terminal.</td>
</tr>
<tr>
<td>Hydraulic lift equipment at the property, including elevators, in-ground hoists and loading docks</td>
<td>Historical use unknown; however, no evidence of past lift equipment observed during site visit.</td>
</tr>
</tbody>
</table>

### Written Description of Investigation

Site reconnaissance field notes are included in Appendix G and detailed description in Section 6.5.2 to fulfill this requirement. Interview notes are included in Appendix G.
6.6.1 General Requirements

<table>
<thead>
<tr>
<th>Description of Information</th>
<th>Summary of Findings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date and time of Reconnaissance</td>
<td>October 23, 2014</td>
</tr>
<tr>
<td>Weather Conditions</td>
<td>14°C, Sunny</td>
</tr>
<tr>
<td>Length of Time of Reconnaissance</td>
<td>0.5 hours</td>
</tr>
<tr>
<td>Operational Status of Site</td>
<td>Active</td>
</tr>
<tr>
<td>Enhanced Investigation Property?</td>
<td>Yes (garage)</td>
</tr>
<tr>
<td>Name and Qualifications of Assessor</td>
<td>Darin Burr, P.Geo (QPESA)</td>
</tr>
</tbody>
</table>

Photographs of the property were taken on October 23, 2014 and are provided in Appendix H. Those photos showing the site layout and potential environmental concerns are:

<table>
<thead>
<tr>
<th>Photo Number</th>
<th>Photo Orientation</th>
<th>Description</th>
<th>Potential Environmental Concern</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-1</td>
<td>South</td>
<td>Drum storage area in front of building</td>
<td>APEC #7</td>
</tr>
<tr>
<td>11-2</td>
<td>West</td>
<td>Inside small volume chemical/oil storage</td>
<td>APEC #7</td>
</tr>
<tr>
<td>11-3</td>
<td>West</td>
<td>Inside garage/maintenance area</td>
<td>APEC #7</td>
</tr>
<tr>
<td>11-4</td>
<td>South</td>
<td>Inside small quantity fuel storage</td>
<td>APEC #7</td>
</tr>
<tr>
<td>11-5</td>
<td>West</td>
<td>Inside garage/maintenance area</td>
<td>APEC #7</td>
</tr>
</tbody>
</table>

The approximate locations of photographs are shown in Figure 4.

6.6.2 Specific Observations at the Phase One Property

The following summarizes the relevant observations made at the site during the Phase One ESA site visit.

<table>
<thead>
<tr>
<th>Description</th>
<th>Summary of Findings</th>
</tr>
</thead>
<tbody>
<tr>
<td>General description of above ground buildings</td>
<td>150 m2 1-storey building, steel frame, steel sided, slab on grade foundation. West and east portions of building are separated. Three overhead garage doors along north side. Antenna tower on east side (potentially not in use). On-site operations are boat mechanical</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td><strong>Summary of Findings</strong></td>
</tr>
<tr>
<td>-----------------</td>
<td>------------------------</td>
</tr>
<tr>
<td>Maintenance</td>
<td>It was reported to Dillon that building was once used as a Canadian Coast Guard facility.</td>
</tr>
<tr>
<td>General description of below ground structures</td>
<td>No below grade structures</td>
</tr>
<tr>
<td>Details of above ground tanks</td>
<td>No above ground tanks; however, some jerry-cans used to store small quantities of fuel were observed</td>
</tr>
<tr>
<td>Details of below ground tanks</td>
<td>No below ground tanks</td>
</tr>
<tr>
<td>Potable and Non-Potable water sources</td>
<td>Water is supplied by piped municipal services. No other potable or non-potable water sources were observed.</td>
</tr>
<tr>
<td>Above ground utilities</td>
<td>Hydro utilities.</td>
</tr>
<tr>
<td>Below ground utilities</td>
<td>Potentially below groundwater and telephone.</td>
</tr>
</tbody>
</table>

### Additional Site Information

<table>
<thead>
<tr>
<th><strong>Relevant Information</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Exit and entry points</strong></td>
</tr>
<tr>
<td><strong>Heating systems</strong></td>
</tr>
<tr>
<td><strong>Cooling systems</strong></td>
</tr>
<tr>
<td><strong>Drains, pits and sumps</strong></td>
</tr>
<tr>
<td><strong>Stains and corrosion</strong></td>
</tr>
<tr>
<td><strong>Current and former wells</strong></td>
</tr>
<tr>
<td><strong>Sewage works</strong></td>
</tr>
<tr>
<td><strong>Ground surface and cover type</strong></td>
</tr>
<tr>
<td><strong>Current or former railway lines/spurs</strong></td>
</tr>
<tr>
<td><strong>Areas of stained soil, vegetation or pavement</strong></td>
</tr>
<tr>
<td><strong>Stressed vegetation</strong></td>
</tr>
<tr>
<td>Additional Site Information</td>
</tr>
<tr>
<td>----------------------------</td>
</tr>
<tr>
<td>Fill material</td>
</tr>
<tr>
<td>Unidentified substances</td>
</tr>
</tbody>
</table>

Based upon our review of the available information, the following Potentially Contaminating Activities (PCAs) have been identified:

On site

- Boat maintenance/garage (PCA #27)
- Fill below Site used to construct Pier 8 (PCA #30)
- Historical port activities, including operation and maintenance of wharves and docks (PCA #44)
- Historical use of the site by the Canadian Coast Guard for marine operations (PCA #52)

Off site within Phase One Study Area

- N/A

### 6.6.2.1 Enhanced Investigation Property

This site is considered to be an Enhanced Investigation Property as per Section 32(1)(b) of O.Reg. 153/04. as it is used for boat maintenance.

<table>
<thead>
<tr>
<th>Description</th>
<th>Summary of Findings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operations at the property, including processing or manufacturing</td>
<td>Used for boat engine (inboards/outboards) maintenance and boat winterizing.</td>
</tr>
<tr>
<td>Hazardous materials used or stored</td>
<td>Engine oil, antifreeze, cleaners and solvents. Unopened products are kept in storage on-site</td>
</tr>
<tr>
<td>Products manufactured</td>
<td>No products manufactured</td>
</tr>
<tr>
<td>By-products and wastes</td>
<td>Waste oils, antifreeze and small quantities of waste chemicals/solvents produced.</td>
</tr>
<tr>
<td>Raw materials handled and storage locations</td>
<td>No raw materials handled</td>
</tr>
<tr>
<td>Details of drums, totes and bins</td>
<td>Two drums believed used for waste oil storage are located outside along north wall of building at the time of the site visit.</td>
</tr>
</tbody>
</table>
### 6.6.3 Written Description of Investigation

Site reconnaissance field notes are included in Appendix G and detailed description in Section 6.6.2 to fulfill this requirement. Interview notes are included in Appendix G.

### 6.7 Pier 8 – Shed 6 (Hamilton Port Authority, Ocean Towing and Longshoreman Association)

#### 6.7.1 General Requirements

<table>
<thead>
<tr>
<th>Description of Information</th>
<th>Summary of Findings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date and time of Reconnaissance</td>
<td>October 21, 2014; October 31, 2014</td>
</tr>
<tr>
<td>Weather Conditions</td>
<td>10°C, Slightly rainy (both days)</td>
</tr>
<tr>
<td>Length of Time of Reconnaissance</td>
<td>2.0 hours (total)</td>
</tr>
<tr>
<td>Operational Status of Site</td>
<td>Active</td>
</tr>
<tr>
<td>Enhanced Investigation Property?</td>
<td>No</td>
</tr>
<tr>
<td>Name and Qualifications of Assessor</td>
<td>Darin Burr, P.Geo (QPESA)</td>
</tr>
<tr>
<td>Details of oil/water separators, including</td>
<td>No oil/water separators observed at site</td>
</tr>
<tr>
<td>location, installation date, source of incoming</td>
<td></td>
</tr>
<tr>
<td>liquid and effluent discharge location</td>
<td></td>
</tr>
<tr>
<td>Equipment and vehicle maintenance areas,</td>
<td>Boat and engine maintenance areas located in main building. Waste fluids stored in</td>
</tr>
<tr>
<td>including locations of maintenance, fluid</td>
<td>drums outside of building. Some temporary storage of waste oils/antifreeze inside</td>
</tr>
<tr>
<td>storage and waste storage areas</td>
<td>building.</td>
</tr>
<tr>
<td>Spills including dates, locations, materials</td>
<td>No information available</td>
</tr>
<tr>
<td>and volume</td>
<td></td>
</tr>
<tr>
<td>Liquid discharge points such as water and</td>
<td>No discharge points known</td>
</tr>
<tr>
<td>french drains</td>
<td></td>
</tr>
<tr>
<td>Operations at the property including processing,</td>
<td>Operations include boat and engine maintenance. Equipment used includes air</td>
</tr>
<tr>
<td>manufacturing and equipment used</td>
<td>compressors and small tools.</td>
</tr>
<tr>
<td>Hydraulic lift equipment at the property,</td>
<td>No hydraulic lift equipment observed. Below ground hoists are not present in the</td>
</tr>
<tr>
<td>including elevators, in-ground hoists and</td>
<td>building.</td>
</tr>
<tr>
<td>loading docks</td>
<td></td>
</tr>
</tbody>
</table>
Photographs of the property were taken on October 21, 2014 and October 31, 2014, and are provided in Appendix H. Those photos showing the site layout and potential environmental concerns are:

<table>
<thead>
<tr>
<th>Photo Number</th>
<th>Photo Orientation</th>
<th>Description</th>
<th>Potential Environmental Concern</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-1</td>
<td>Northeast</td>
<td>South portion of warehouse and dock yard area</td>
<td>APEC #8a</td>
</tr>
<tr>
<td>10-2</td>
<td>South</td>
<td>Grassy area, misc. storage</td>
<td>APEC #8a</td>
</tr>
<tr>
<td>10-3</td>
<td>North</td>
<td>West side of warehouse and dock/yard area, transformer area shown</td>
<td>APEC #8a</td>
</tr>
<tr>
<td>10-4</td>
<td>West</td>
<td>Pole mounted transformers</td>
<td>APEC #8d</td>
</tr>
<tr>
<td>10-5</td>
<td>North</td>
<td>Former fuel oil UST area along south side of warehouse</td>
<td>APEC #8c</td>
</tr>
<tr>
<td>10-6</td>
<td>West</td>
<td>Southside of warehouse showing loading dock area</td>
<td>APEC #8a</td>
</tr>
<tr>
<td>10-7</td>
<td>West</td>
<td>North side of warehouse showing loading dock area</td>
<td>APEC #8a</td>
</tr>
<tr>
<td>10-8</td>
<td>West</td>
<td>Fuel Oil UST in northeast corner of warehouse</td>
<td>APEC #8b</td>
</tr>
<tr>
<td>10-9</td>
<td>West</td>
<td>Inside warehouse</td>
<td>APEC #8a</td>
</tr>
<tr>
<td>10-10</td>
<td>East</td>
<td>Maintenance area in northeast corner of warehouse used by Ocean</td>
<td>APEC #8a</td>
</tr>
<tr>
<td>10-11</td>
<td>North</td>
<td>Lube oil storage area in northeast corner of warehouse</td>
<td>APEC #8a</td>
</tr>
<tr>
<td>10-12</td>
<td>West</td>
<td>Paint storage inside furnace Room in northeast corner of warehouse</td>
<td>APEC #8b</td>
</tr>
</tbody>
</table>

The approximate locations of photographs are shown in Figure 4.

### 6.7.2 Specific Observations at the Phase One Property

The following summarizes the relevant observations made at the site during the Phase One ESA site visit.

<table>
<thead>
<tr>
<th>Description</th>
<th>Summary of Findings</th>
</tr>
</thead>
<tbody>
<tr>
<td>General description of above ground buildings</td>
<td>This area includes ~4.2 ha of largely asphalt covered pier and 190m x 60m warehouse. A ~2000m² grass area used for general storage is located along the south side of the Site. The north and east sides of the property serve as docks, and front onto Hamilton Harbour. The on-site warehouse is a one–one/half stories with two-storey offices located in two locations. The building comprises steel frame,</td>
</tr>
</tbody>
</table>
concrete slab on-grade construction, and has metal siding and roof. It was reported that the east side of the building was constructed first, with the west portion of the building added later. Office space is located in the northeast corner of the building (currently leased to Ocean Towing) and in the south central portion of the building (currently leased to the Longshoreman Association). Each office has its own heating systems. The warehouse area is not heated.

During peak port activities, it was reported that materials from the ships would be temporarily stored in both the warehouse and surrounding asphalted areas.

Ocean leases 75 m\(^2\) of office space and 50 m\(^2\) of warehouse space in the northeastern corner of the building. The office is located on the second floor, and the warehouse space is used for storage of paints and lubricants associated with maintenance activities on the tugboats. A small maintenance shop is located in the warehouse.

| General description of below ground structures | No below grade structures were reported; however, several large manhole covers reported to be associated with storm/sanitary system were observed in the exterior area south of the warehouse |
| Details of above ground tanks | It was reported to Dillon that oil and fuel have been stored in drums within the warehouse during past port activities. Lube oil used for the tugboat was observed to be stored in several 171 L steel drums at the time of the site visit. In addition, small quantities of petroleum products (oils etc.), were observed in the maintenance area in the northeastern corner of the warehouse. |
| Details of below ground tanks | A former underground fuel oil storage tank was located immediately southwest of the office space located in the south portion of the building. An underground fuel oil storage tank is currently located east of the office space in the |
## Description

<table>
<thead>
<tr>
<th>Description</th>
<th>Summary of Findings</th>
</tr>
</thead>
<tbody>
<tr>
<td>northeastern corner of the building.</td>
<td></td>
</tr>
<tr>
<td>Potable and Non-Potable water sources</td>
<td>Water is supplied by piped municipal services. No other potable or non-potable water sources were observed.</td>
</tr>
<tr>
<td>Above ground utilities</td>
<td>Hydro utilities.</td>
</tr>
<tr>
<td>Below ground utilities</td>
<td>Below ground utilities include water, natural gas, sanitary and storm sewers. Several manholes were observed south of the warehouse, and are assumed to be associated with the on-site storm water/sanitary collection system.</td>
</tr>
</tbody>
</table>

### Additional Site Information

<table>
<thead>
<tr>
<th>Relevant Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exit and entry points</td>
</tr>
<tr>
<td>Heating systems</td>
</tr>
<tr>
<td>Cooling systems</td>
</tr>
<tr>
<td>Drains, pits and sumps</td>
</tr>
<tr>
<td>Stains and corrosion</td>
</tr>
<tr>
<td>Current and former wells</td>
</tr>
<tr>
<td>Sewage works</td>
</tr>
<tr>
<td>Ground surface and cover type</td>
</tr>
</tbody>
</table>
### Additional Site Information

<table>
<thead>
<tr>
<th>Current or former railway lines/spurs</th>
<th>None noted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Areas of stained soil, vegetation or pavement</td>
<td>No areas of significantly stained soil, vegetation or pavement observed.</td>
</tr>
<tr>
<td>Stressed vegetation</td>
<td>Vegetation appears in the grassy area along the south portion of the site appears sparse in some areas.</td>
</tr>
<tr>
<td>Fill material</td>
<td>Site is built on reclaimed harbour that contains fill.</td>
</tr>
<tr>
<td>Unidentified substances</td>
<td>No unidentified substances were observed.</td>
</tr>
</tbody>
</table>

Based upon our review of the available information, the following Potentially Contaminating Activities (PCAs) have been identified:

**On site**

- Pole mounted transformer area west of warehouse (PCA #Other 4)
- Boat maintenance activities including storage of lubrication oils and machine shop (PCA #27)
- Former heating oil storage at two locations, including former UST south of warehouse, and current tank east of warehouse (PCA #28)
- Fill of unknown quality below site used to construct Pier 8 (PCA #30)
- Port activities including the former storage of fuels, fertilizer and other products within the warehouse, and in the exterior yard areas (PCA #44)

**Off site within Phase One Study Area**

- N/A

### Enhanced Investigation Property

This site is considered to be an Enhanced Investigation Property as per Section 32(1)(b) of O.Reg. 153/04 as the site is used for industrial purposes (warehouse and material storage).

<table>
<thead>
<tr>
<th>Description</th>
<th>Summary of Findings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operations at the property, including processing or manufacturing</td>
<td>Property is used for a variety of purposes including dock yard for temporary storage of equipment materials related to loading/unloading of boats; office space for the Longshoreman’s Association and office space for Ocean Towing. No manufacturing activities are undertaken at the site.</td>
</tr>
<tr>
<td>Description</td>
<td>Summary of Findings</td>
</tr>
<tr>
<td>-------------------------------------------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Hazardous materials used or stored</td>
<td>Hazardous materials identified during the site visit are limited to small quantities of cleaners and solvents in the mechanical shop in the northeast section of Shed 6, associated with Ocean Towing. The property is used as a dock yard, and there is a potential for hazardous materials to have been temporarily stored in the outdoor yard and warehouse.</td>
</tr>
<tr>
<td>Products manufactured</td>
<td>No products manufactured</td>
</tr>
<tr>
<td>By-products and wastes</td>
<td>Waste oils produced from boat maintenance activities associated with Ocean Towing are removed by a contractor.</td>
</tr>
<tr>
<td>Raw materials handled and storage locations</td>
<td>The property is a dock yard, and it is expected that raw materials (description unknown) have been handled/stored at the site in the past.</td>
</tr>
<tr>
<td>Details of drums, totes and bins</td>
<td>At the time of the site visit, several 200L steel drums of lube and motor oils were stored in the east end of Shed 6, and are associated with Ocean Towing maintenance operations of their tug boats. It was reported to Dillon that in the past, fuel has been stored in the warehouse in drums</td>
</tr>
<tr>
<td>Details of oil/water separators, including</td>
<td>No oil/water separators observed at site</td>
</tr>
<tr>
<td>location, installation date, source of incoming</td>
<td></td>
</tr>
<tr>
<td>liquid and effluent discharge location</td>
<td></td>
</tr>
<tr>
<td>Equipment and vehicle maintenance areas,</td>
<td>The eastern portion of the building is used to store chemicals/lubricants associated with maintenance activities for Ocean Towing’s tug boats.</td>
</tr>
<tr>
<td>including locations of maintenance, fluid storage and waste storage areas</td>
<td></td>
</tr>
<tr>
<td>Spills including dates, locations, materials and volume</td>
<td>No information available</td>
</tr>
<tr>
<td>Liquid discharge points such as water and french drains</td>
<td>No discharge points known</td>
</tr>
<tr>
<td>Operations at the property including processing, manufacturing and equipment used</td>
<td>Operations include warehousing of material during loading/unloading of ships, office space for Ocean Towing and the Longshoreman’s Association.</td>
</tr>
</tbody>
</table>
### Description of Information

<table>
<thead>
<tr>
<th>Description of Information</th>
<th>Summary of Findings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date and time of Reconnaissance</td>
<td>April 19, 2013; October 21, 2014</td>
</tr>
<tr>
<td>Weather Conditions</td>
<td>12°C, cloudy/10°C, Slightly rainy</td>
</tr>
<tr>
<td>Length of Time of Reconnaissance</td>
<td>1 hour (total)</td>
</tr>
<tr>
<td>Operational Status of Site</td>
<td>Active</td>
</tr>
<tr>
<td>Enhanced Investigation Property?</td>
<td>Yes (Industrial)</td>
</tr>
<tr>
<td>Name and Qualifications of Assessor</td>
<td>Darin Burr, P.Geo (QPESA)</td>
</tr>
</tbody>
</table>

Photographs of the property were taken on April 19, 2013 and October 21, 2014 and are provided in Appendix H. Those photos showing the site layout and potential environmental concerns are:

<table>
<thead>
<tr>
<th>Photo Number</th>
<th>Photo Orientation</th>
<th>Description</th>
<th>Potential Environmental Concern</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-1</td>
<td>West</td>
<td>Bermingham storage area</td>
<td>APEC #9</td>
</tr>
<tr>
<td>12-2</td>
<td>Northeast</td>
<td>Bermingham storage area</td>
<td>APEC #9</td>
</tr>
</tbody>
</table>

The approximate locations of photographs are shown in Figure 4.

### Specific Observations at the Phase One Property

The following summarizes the relevant observations made at the site during the Phase One ESA site visit.
#### Description | Summary of Findings
--- | ---
General description of above ground buildings | Property consists of a fenced ~5000m² asphalt and gravel surfaced yard used for equipment storage. At the time of the site visit, stored equipment included steel products associated with foundation construction, and portable above ground job-site storage tanks.

General description of below ground structures | No below grade structures were reported

Details of above ground tanks | No permanent above ground storage tanks were observed; however, temporary storage of portable above ground storage tanks were present.

Details of below ground tanks | No knowledge of underground storage tanks

Potable and Non-Potable water sources | Water is supplied by piped municipal services. No other potable or non-potable water sources were observed.

Above ground utilities | Hydro utilities.

Below ground utilities | No structures are present on-site; however, ground utilities include water, natural gas, sanitary and storm sewers may cross the Site.

### Additional Site Information
#### Relevant Information
- **Exit and entry points**: Site is accessed along a gated fence to the north and southeast sides of the compound.
- **Heating systems**: None, no structures are present on-site
- **Cooling systems**: None, no structures are present on-site
- **Drains, pits and sumps**: None noted
- **Stains and corrosion**: No staining noted.
- **Current and former wells**: None noted
- **Sewage works**: None, no structures are present on-site
- **Ground surface and cover type**: Mainly asphalt, with some gravel surfaces.
- **Current or former railway lines/spurs**: None noted
### Additional Site Information

<table>
<thead>
<tr>
<th>Additional Site Information</th>
<th>Relevant Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Areas of stained soil, vegetation or pavement</td>
<td>No areas of significantly stained soil, vegetation or pavement observed.</td>
</tr>
<tr>
<td>Stressed vegetation</td>
<td>None noted.</td>
</tr>
<tr>
<td>Fill material</td>
<td>Site is built on reclaimed harbour that contains fill.</td>
</tr>
<tr>
<td>Unidentified substances</td>
<td>No unidentified substances were observed.</td>
</tr>
</tbody>
</table>

Based upon our review of the available information, the following Potentially Contaminating Activities (PCAs) have been identified:

**On site**

- Storage of construction equipment including portable storage tanks (PCA #Other 3)
- Fill of unknown quality below site used to construct Pier 8 (PCA #30)
- Historical port activities, including operation and maintenance of wharves and docks (PCA #44)

**Off site within Phase One Study Area**

- N/A

### Enhanced Investigation Property

This site is considered to be an Enhanced Investigation Property as per Section 32(1)(b) of O.Reg. 153/04 as the site is used for industrial purposes (equipment and material storage).

### Description

<table>
<thead>
<tr>
<th>Description</th>
<th>Summary of Findings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operations at the property, including processing or manufacturing</td>
<td>Property is used to store equipment and steel used for construction of foundations.</td>
</tr>
<tr>
<td>Hazardous materials used or stored</td>
<td>No hazardous materials were observed during the site visit</td>
</tr>
<tr>
<td>Products manufactured</td>
<td>No products are manufactured.</td>
</tr>
<tr>
<td>By-products and wastes</td>
<td>No reported by-products or wastes are produced.</td>
</tr>
<tr>
<td>Raw materials handled and storage locations</td>
<td>None reported</td>
</tr>
<tr>
<td>Details of drums, totes and bins</td>
<td>None observed</td>
</tr>
<tr>
<td>Details of oil/water separators, including location, installation date, source of incoming</td>
<td>No oil/water separators observed during site</td>
</tr>
</tbody>
</table>
### Description of Information

<table>
<thead>
<tr>
<th>Description of Information</th>
<th>Summary of Findings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date and time of Reconnaissance</td>
<td>April 19, 2013 and October 22, 2014</td>
</tr>
<tr>
<td>Weather Conditions</td>
<td>12°C, cloudy/10°C, Slightly rainy</td>
</tr>
<tr>
<td>Length of Time of Reconnaissance</td>
<td>1.5 hours (total)</td>
</tr>
<tr>
<td>Operational Status of Site</td>
<td>Active</td>
</tr>
<tr>
<td>Enhanced Investigation Property?</td>
<td>Yes (formerly used for maintenance operations)</td>
</tr>
<tr>
<td>Name and Qualifications of Assessor</td>
<td>Darin Burr, P.Geo (QPESA)</td>
</tr>
</tbody>
</table>

### 6.8.3 Written Description of Investigation

Site reconnaissance field notes are included in Appendix G and detailed description in Section 6.8.2 to fulfill this requirement. Interview notes are included in Appendix G.

### 6.9 Hamilton Port Authority – Shed 7

### 6.9.1 General Requirements

<table>
<thead>
<tr>
<th>Description of Information</th>
<th>Summary of Findings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date and time of Reconnaissance</td>
<td>April 19, 2013 and October 22, 2014</td>
</tr>
<tr>
<td>Weather Conditions</td>
<td>12°C, cloudy/10°C, Slightly rainy</td>
</tr>
<tr>
<td>Length of Time of Reconnaissance</td>
<td>1.5 hours (total)</td>
</tr>
<tr>
<td>Operational Status of Site</td>
<td>Active</td>
</tr>
<tr>
<td>Enhanced Investigation Property?</td>
<td>Yes (formerly used for maintenance operations)</td>
</tr>
<tr>
<td>Name and Qualifications of Assessor</td>
<td>Darin Burr, P.Geo (QPESA)</td>
</tr>
</tbody>
</table>
Photographs of the property were taken on April 19, 2013 and October 22, 2014 and are provided in Appendix H. Those photos showing the site layout and potential environmental concerns are:

<table>
<thead>
<tr>
<th>Photo Number</th>
<th>Photo Orientation</th>
<th>Description</th>
<th>Potential Environmental Concern</th>
</tr>
</thead>
<tbody>
<tr>
<td>13-1</td>
<td>Southeast</td>
<td>Southwest corner of Shed 7 showing location of former UST</td>
<td>APEC #10b</td>
</tr>
<tr>
<td>13-2</td>
<td>South</td>
<td>North side of Shed 7</td>
<td>APEC #10a</td>
</tr>
<tr>
<td>13-3</td>
<td>East</td>
<td>South side of Shed 7</td>
<td>APEC #10a</td>
</tr>
<tr>
<td>13-4</td>
<td>South</td>
<td>Inside of Shed 7</td>
<td>APEC #10a</td>
</tr>
</tbody>
</table>

The approximate locations of photographs are shown in Figure 4.

### 6.9.2 Specific Observations at the Phase One Property

The following summarizes the relevant observations made at the site during the Phase One ESA site visit.

<table>
<thead>
<tr>
<th>Description</th>
<th>Summary of Findings</th>
</tr>
</thead>
<tbody>
<tr>
<td>General description of above ground buildings</td>
<td>The on-site warehouse is a one–one-half storey building with a steel frame/roof, built on a concrete slab-on-grade foundation. It was reported that the southern portion of the building use to have a second floor mezzanine used for offices. The shed is not heated, and is currently used for boat storage. No floor drains were observed.</td>
</tr>
<tr>
<td>General description of below ground structures</td>
<td>No below grade structures were reported</td>
</tr>
<tr>
<td>Details of above ground tanks</td>
<td>No above ground storage tanks were noted.</td>
</tr>
<tr>
<td>Details of below ground tanks</td>
<td>It was reported that a petroleum fuel underground storage tank was located at the northwest corner of the building. At the time of the site visit, the vent pipe was present; however, based on observed site conditions, the tank may have been removed.</td>
</tr>
</tbody>
</table>
### Description

<table>
<thead>
<tr>
<th>Potable and Non-Potable water sources</th>
<th>Water is supplied by piped municipal services. No other potable or non-potable water sources were observed.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Above ground utilities</td>
<td>Hydro utilities.</td>
</tr>
<tr>
<td>Below ground utilities</td>
<td>Below ground utilities in the vicinity of Shed 7 include water, natural gas, sanitary and storm sewers.</td>
</tr>
</tbody>
</table>

### Additional Site Information

<table>
<thead>
<tr>
<th>Exit and entry points</th>
<th>Site is accessed from the west and south.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heating systems</td>
<td>Warehouse is not heated.</td>
</tr>
<tr>
<td>Cooling systems</td>
<td>Warehouse does not have air conditioning.</td>
</tr>
<tr>
<td>Drains, pits and sumps</td>
<td>None noted in building</td>
</tr>
<tr>
<td>Stains and corrosion</td>
<td>No significant areas of staining were observed on the concrete floor.</td>
</tr>
<tr>
<td>Current and former wells</td>
<td>None noted</td>
</tr>
<tr>
<td>Sewage works</td>
<td>There is no washroom in the building</td>
</tr>
<tr>
<td>Ground surface and cover type</td>
<td>Asphalt surrounds the shed.</td>
</tr>
<tr>
<td>Current or former railway lines/spurs</td>
<td>None noted</td>
</tr>
<tr>
<td>Areas of stained soil, vegetation or pavement</td>
<td>No areas of significantly stained soil, vegetation or pavement observed.</td>
</tr>
<tr>
<td>Stressed vegetation</td>
<td>No vegetation is present near the building.</td>
</tr>
<tr>
<td>Fill material</td>
<td>Site is built on reclaimed harbour that contains fill.</td>
</tr>
<tr>
<td>Unidentified substances</td>
<td>No unidentified substances were observed.</td>
</tr>
</tbody>
</table>

Based upon our review of the available information, the following Potentially Contaminating Activities (PCAs) have been identified:

**On site**

- Historical use of property for maintenance activities in 1940 (PCA #27)
- Maintenance activities associated with boat storage (PCA# Other 27)
- Former petroleum fuel AST and northeast end of shed (PCA #28)
- Fill of unknown quality below site used to construct Pier 8 (PCA #30)
- Port activities including general storage of materials (PCA #44)

Off site within Phase One Study Area

- N/A

Enhanced Investigation Property

This site is considered to be an Enhanced Investigation Property, as per Section 32(1)(b) of O.Reg. 153/04 as it has historically been used for maintenance operations (potentially including mechanical maintenance) at the harbour.

<table>
<thead>
<tr>
<th>Description</th>
<th>Summary of Findings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operations at the property, including processing or manufacturing</td>
<td>On-site building reported to have historically been used for vehicle maintenance in the 1940s.</td>
</tr>
<tr>
<td>Hazardous materials used or stored</td>
<td>Historical materials used unknown</td>
</tr>
<tr>
<td>Products manufactured</td>
<td>Historical operations are not believed to have involved manufacturing</td>
</tr>
<tr>
<td>By-products and wastes</td>
<td>Potential waste oils/chemicals associated with former maintenance operations</td>
</tr>
<tr>
<td>Raw materials handled and storage locations</td>
<td>Historical information unknown</td>
</tr>
<tr>
<td>Details of drums, totes and bins</td>
<td>Historical information unknown</td>
</tr>
<tr>
<td>Details of oil/water separators, including location, installation date,</td>
<td>Unknown; however, no evidence of oil/water separator observed during site visit.</td>
</tr>
<tr>
<td>source of incoming liquid and effluent discharge location</td>
<td></td>
</tr>
<tr>
<td>Equipment and vehicle maintenance areas, including locations of maintenance,</td>
<td>Location of historical maintenance areas unknown.</td>
</tr>
<tr>
<td>fluid storage and waste storage areas</td>
<td></td>
</tr>
<tr>
<td>Spills including dates, locations, materials and volume</td>
<td>Historical spillage information unknown</td>
</tr>
<tr>
<td>Liquid discharge points such as water and french drains</td>
<td>Historical discharge points unknown</td>
</tr>
<tr>
<td>Operations at the property including processing, manufacturing and</td>
<td>Reported former use of the on-site building as a maintenance garage in the 1940s.</td>
</tr>
<tr>
<td>equipment used</td>
<td></td>
</tr>
<tr>
<td>Description</td>
<td>Summary of Findings</td>
</tr>
<tr>
<td>-------------</td>
<td>---------------------</td>
</tr>
<tr>
<td>Hydraulic lift equipment at the property, including elevators, in-ground hoists and loading docks</td>
<td>Historical use unknown; however, no evidence of past lift equipment observed during site visit.</td>
</tr>
</tbody>
</table>

### 6.9.3 Written Description of Investigation

Site reconnaissance field notes are included in Appendix G and detailed description in Section 6.9.2 to fulfill this requirement. Interview notes are included in Appendix G.

### 6.10 Pier 8 – Navy League

#### 6.10.1 General Requirements

<table>
<thead>
<tr>
<th>Description of Information</th>
<th>Summary of Findings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date and time of Reconnaissance</td>
<td>October 21, 2014</td>
</tr>
<tr>
<td>Weather Conditions</td>
<td>8°C, Cloudy with some rain</td>
</tr>
<tr>
<td>Length of Time of Reconnaissance</td>
<td>1 hours</td>
</tr>
<tr>
<td>Operational Status of Site</td>
<td>Active</td>
</tr>
<tr>
<td>Enhanced Investigation Property?</td>
<td>No</td>
</tr>
<tr>
<td>Name and Qualifications of Assessor</td>
<td>Darin Burr, P.Geo (QP ESA)</td>
</tr>
</tbody>
</table>

Photographs of the property were taken on October 21, 2014 and are provided in Appendix H. Those photos showing the site layout and potential environmental concerns are:

<table>
<thead>
<tr>
<th>Photo Number</th>
<th>Photo Orientation</th>
<th>Description</th>
<th>Potential Environmental Concern</th>
</tr>
</thead>
<tbody>
<tr>
<td>14-1</td>
<td>West</td>
<td>Front of building</td>
<td>APEC #11a</td>
</tr>
<tr>
<td>14-2</td>
<td>South</td>
<td>Gymnasium</td>
<td>n/a</td>
</tr>
<tr>
<td>14-3</td>
<td>East</td>
<td>Former Fuel tank UST cradle</td>
<td>APEC #11b</td>
</tr>
<tr>
<td>14-4</td>
<td>South</td>
<td>Inside Garage – shop/maintenance</td>
<td>APEC #11c</td>
</tr>
<tr>
<td>14-5</td>
<td>North</td>
<td>Boat Storage/Trailer/ dumpster</td>
<td>n/a</td>
</tr>
<tr>
<td>14-6</td>
<td>North</td>
<td>Small Quantity chemical storage inside building</td>
<td>APEC #11a</td>
</tr>
<tr>
<td>14-7</td>
<td>North</td>
<td>Sanitary Sewer Tank</td>
<td>n/a</td>
</tr>
</tbody>
</table>
The approximate locations of photographs are shown in Figure 4.

### 6.10.2 Specific Observations at the Phase One Property

The following summarizes the relevant observations made at the site during the Phase One ESA site visit.

<table>
<thead>
<tr>
<th>Description</th>
<th>Summary of Findings</th>
</tr>
</thead>
<tbody>
<tr>
<td>General description of above ground buildings</td>
<td>Property consists of a 8000 m$^2$ area comprising a building and parking area on its west side, paved roadway on its north side and large 4200 m$^2$ trapezoidal shaped lawn on its east side. On-site buildings include a 450 m$^2$ 2-storey main building with concrete slab on grade foundation. Building was constructed in 1946, and includes a gymnasium (north portion of building), offices, classrooms, kitchen and storage areas (south side of building). Building has wood frame construction, covered in potentially asbestos tiles. A closed-in deck is located along the west side of the building, and this area is now used for classrooms. Other on-site structures include 80 m$^2$ one-storey boathouse with wood frame with slab on grade foundation and peaked roof. A boat storage area and trailer used to store boat sails/lawnmower are located along the north side of the property. The west side of the building used to front onto Hamilton Harbour prior to filling in of harbour to construct Pier 8.</td>
</tr>
<tr>
<td>General description of below ground structures</td>
<td>No below grade structures observed</td>
</tr>
<tr>
<td>Details of above ground tanks</td>
<td>No above ground tanks observed; however, building appears to have once been heated by an oil-fired furnace. Former support cradles for an above ground storage tank is located along south side of building. Small gasoline jerry-can used for fuel storage for lawnmower is present in boathouse.</td>
</tr>
<tr>
<td>Details of below ground tanks</td>
<td>No below ground tanks observed or reported</td>
</tr>
<tr>
<td>Potable and Non-Potable water sources</td>
<td>Potable water is provided by municipality (piped water). No other on-site potable or non-potable water sources were observed</td>
</tr>
</tbody>
</table>
### Description

<table>
<thead>
<tr>
<th>Description</th>
<th>Summary of Findings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Above ground utilities</td>
<td>Overhead electricity</td>
</tr>
<tr>
<td>Below ground utilities</td>
<td>Buried sanitary sewer and associated pumping station/concrete holding tank that discharges to John Street sewer. Below ground water, telephone and natural gas utilities. Storm sewer catch basins in parking lot. An oil pipeline encroaches upon the southwest corner of the property.</td>
</tr>
</tbody>
</table>

### Additional Site Information

<table>
<thead>
<tr>
<th>Description</th>
<th>Relevant Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exit and entry points</td>
<td>Entrance to site from gated roadway at northeast corner of property, accessed off Catharine Street North</td>
</tr>
<tr>
<td>Heating systems</td>
<td>Main building is heated by three natural gas-fired forced air furnaces. An oil-fired furnace was once used to heat building, but tank has been removed. Boathouse is not heated.</td>
</tr>
<tr>
<td>Cooling systems</td>
<td>Two portable air conditioning units</td>
</tr>
<tr>
<td>Drains, pits and sumps</td>
<td>None noted</td>
</tr>
<tr>
<td>Stains and corrosion</td>
<td>No significant stains/ corrosion were observed.</td>
</tr>
<tr>
<td>Current and former wells</td>
<td>None noted</td>
</tr>
<tr>
<td>Sewage works</td>
<td>Washrooms and kitchen facilities discharge to an on-site holding tank and pumping station, which discharges into the City of Hamilton sanitary sewage system</td>
</tr>
<tr>
<td>Ground surface and cover type</td>
<td>Asphalt surrounding main building and boathouse, and large grass area in east half of site.</td>
</tr>
<tr>
<td>Current or former railway lines/spurs</td>
<td>None noted</td>
</tr>
<tr>
<td>Areas of stained soil, vegetation or pavement</td>
<td>No areas of significantly stained soil, vegetation, or pavement observed.</td>
</tr>
<tr>
<td>Stressed vegetation</td>
<td>None noted</td>
</tr>
</tbody>
</table>
**Additional Site Information** | **Relevant Information**
--- | ---
Fill material | Site is built on reclaimed harbour that contains fill. Fill may also be associated with on-site docks/piers.

Unidentified substances | No unidentified substances were observed.

Based upon our review of the available information, the following Potentially Contaminating Activities (PCAs) have been identified:

**On site**
- Potential impacts from off-site oil pipeline near southwestern corner of Site (PCA #14)
- Boat maintenance activities (including storage of small quantities of petroleum fuels) in the vicinity of boathouse (PCA #27)
- Former furnace oil above ground storage tank located at south end of main building (PCA #28)
- Fill of unknown quality below west and north portions of Site used to construct Pier 8 (PCA #30)
- Port activities including general storage of materials (PCA #44)

**Off site within Phase One Study Area**
- Potential impacts from off-site former landfill located southeast of Site, south of Dock Service Road (PCA #58).

**6.10.2.1 Enhanced Investigation Property**

This site is not considered to be an Enhanced Investigation Property, as it has not been used:
- For industrial purposes
- As a garage
- As a bulk liquid dispensing facility, including a gasoline outlet
- For the operation of dry cleaning equipment.

**6.10.3 Written Description of Investigation**

Dillon has included our site reconnaissance field notes in Appendix F and detailed description in Section 6.10.2 to fulfill this requirement.

**6.11 Bayview Park**

**6.11.1 General Requirements**

<table>
<thead>
<tr>
<th>Description of Information</th>
<th>Summary of Findings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date and time of Reconnaissance</td>
<td>October 15, 2014</td>
</tr>
<tr>
<td>Weather Conditions</td>
<td>10°C, Cloudy</td>
</tr>
</tbody>
</table>
### Description of Information

<table>
<thead>
<tr>
<th>Description of Information</th>
<th>Summary of Findings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length of Time of Reconnaissance</td>
<td>1.0 hours (total)</td>
</tr>
<tr>
<td>Operational Status of Site</td>
<td>Active (recreational park)</td>
</tr>
<tr>
<td>Enhanced Investigation Property?</td>
<td>Yes</td>
</tr>
<tr>
<td>Name and Qualifications of Assessor</td>
<td>Darin Burr, P.Geo (QPESA)</td>
</tr>
</tbody>
</table>

Photographs of the property were taken on October 15, 2014, and are provided in Appendix H. Those photos showing the site layout and potential environmental concerns are:

<table>
<thead>
<tr>
<th>Photo Number</th>
<th>Photo Orientation</th>
<th>Description</th>
<th>Potential Environmental Concern</th>
</tr>
</thead>
<tbody>
<tr>
<td>16-1</td>
<td>Southeast</td>
<td>From splash pad</td>
<td>APEC#12</td>
</tr>
<tr>
<td>16-2</td>
<td>Northeast</td>
<td>Looking towards Harbour</td>
<td>APEC#12</td>
</tr>
<tr>
<td>16-3</td>
<td>Southeast</td>
<td>General site area</td>
<td>APEC#12</td>
</tr>
<tr>
<td>16-4</td>
<td>North</td>
<td>Looking towards harbour</td>
<td>APEC#12</td>
</tr>
<tr>
<td>16-5</td>
<td>Northeast</td>
<td>Looking towards NE corner</td>
<td>APEC#12</td>
</tr>
<tr>
<td>16-6</td>
<td>Southwest</td>
<td>Looking towards Burlington Street West</td>
<td>APEC#12</td>
</tr>
</tbody>
</table>

The approximate locations of photographs are shown in Figure 4.

### Specific Observations at the Phase One Property

The following summarizes the relevant observations made at the site during the Phase One ESA site visit.

<table>
<thead>
<tr>
<th>Description</th>
<th>Summary of Findings</th>
</tr>
</thead>
<tbody>
<tr>
<td>General description of above ground buildings</td>
<td>No buildings are present; however, there is a children splash pad and playground equipment at the park.</td>
</tr>
<tr>
<td>General description of below ground structures</td>
<td>No below grade structures were reported to have been present</td>
</tr>
<tr>
<td>Details of above ground tanks</td>
<td>No above ground storage tanks were reported to have been present</td>
</tr>
<tr>
<td>Details of below ground tanks</td>
<td>No below ground storage tanks were reported to have been present at the site.</td>
</tr>
<tr>
<td>Potable and Non-Potable water sources</td>
<td>Water is supplied to the splash pad by piped municipal services. No other potable or non-potable water sources were observed.</td>
</tr>
</tbody>
</table>
### Description

<table>
<thead>
<tr>
<th></th>
<th>Summary of Findings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Above ground utilities</td>
<td>No above ground utilities were observed.</td>
</tr>
<tr>
<td>Below ground utilities</td>
<td>Below ground utilities that potentially cross the site include hydro, water, natural gas, sanitary and storm sewers.</td>
</tr>
</tbody>
</table>

### Additional Site Information

<table>
<thead>
<tr>
<th>Description</th>
<th>Relevant Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exit and entry points</td>
<td>The property is accessed via a gravel roadway in the northeastern portion of the property leading eastward from Bay Street North.</td>
</tr>
<tr>
<td>Heating systems</td>
<td>No buildings are present</td>
</tr>
<tr>
<td>Cooling systems</td>
<td>No buildings are present</td>
</tr>
<tr>
<td>Drains, pits and sumps</td>
<td>A drain is located in the splash pad, and manhole covers are present in the vicinity of the pad</td>
</tr>
<tr>
<td>Stains and corrosion</td>
<td>None noted</td>
</tr>
<tr>
<td>Current and former wells</td>
<td>None noted</td>
</tr>
<tr>
<td>Sewage works</td>
<td>No washrooms are present at the site.</td>
</tr>
<tr>
<td>Ground surface and cover type</td>
<td>Grassed lawn area covers the majority of the site, with the exception of the splash pad located in the northwestern corner of the site, which is covered with asphalt and concrete.</td>
</tr>
<tr>
<td>Current or former railway lines/spurs</td>
<td>None noted</td>
</tr>
<tr>
<td>Areas of stained soil, vegetation or pavement</td>
<td>No areas of significantly stained soil, vegetation or pavement observed outside of the shed.</td>
</tr>
<tr>
<td>Stressed vegetation</td>
<td>None noted</td>
</tr>
<tr>
<td>Fill material</td>
<td>Site is built on a former industrial property used for glass manufacturing (Burlington Glass Works, circa pre-1900s). As a result, there is the potential for fill at the property.</td>
</tr>
<tr>
<td>Unidentified substances</td>
<td>No unidentified substances were observed.</td>
</tr>
</tbody>
</table>
Based upon our review of the available information, the following Potentially Contaminating Activities (PCAs) have been identified:

On site

- Bayview Park – Former glass manufacturing activities associated with the Burlington Glass Works – pre-1900s (PCA #Other 29)

Off site within Phase One Study Area

- N/A

Enhanced Investigation Property

This site is considered to be an Enhanced Investigation Property, as per Section 32(1)(b) of O.Reg. 153/04 as it has historically been used as an industrial property (former glass manufacturing – Burlington Glass Works circa pre-1900’s).

<table>
<thead>
<tr>
<th>Description</th>
<th>Summary of Findings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operations at the property, including processing or manufacturing</td>
<td>Historical records indicate that the site was once used by the Burlington Glass Works (pre-1900) for the manufacturing of glass products</td>
</tr>
<tr>
<td>Hazardous materials used or stored</td>
<td>Historical information unknown</td>
</tr>
<tr>
<td>Products manufactured</td>
<td>Historical records indicate that glass products were manufactured at the site</td>
</tr>
<tr>
<td>By-products and wastes</td>
<td>Historical information unknown</td>
</tr>
<tr>
<td>Raw materials handled and storage locations</td>
<td>Historical information unknown</td>
</tr>
<tr>
<td>Details of drums, totes and bins</td>
<td>Historical information unknown</td>
</tr>
<tr>
<td>Details of oil/water separators, including location, installation date, source of incoming liquid and effluent discharge location</td>
<td>Historical information unknown, but use unlikely; no evidence of oil/water separator observed during site visit.</td>
</tr>
<tr>
<td>Equipment and vehicle maintenance areas, including locations of maintenance, fluid storage and waste storage areas</td>
<td>Location of historical maintenance areas unknown.</td>
</tr>
<tr>
<td>Spills including dates, locations, materials and volume</td>
<td>Historical spillage information unknown</td>
</tr>
<tr>
<td>Liquid discharge points such as water and french drains</td>
<td>Historical discharge points unknown</td>
</tr>
<tr>
<td>Description</td>
<td>Summary of Findings</td>
</tr>
<tr>
<td>---------------------------------------------------------------------------</td>
<td>-------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Operations at the property including processing, manufacturing and equipment used</td>
<td>Historical records indicate that the site was once used by the Burlington Glass Works (pre-1900s) for the manufacturing of glass products.</td>
</tr>
<tr>
<td>Hydraulic lift equipment at the property, including elevators, in-ground hoists and loading docks</td>
<td>Historical information unknown; but use of hydraulic equipment unlikely.</td>
</tr>
</tbody>
</table>

6.11.3 Written Description of Investigation

Site reconnaissance field notes are included in Appendix F and detailed description in Section 6.11.2 to fulfill this requirement. Interview notes are included in Appendix F.
7.0 Review and Evaluation of Information

7.1 Current and Past Uses

The Pier 5 to 8 portion of the site was historically part of the bed of the Hamilton Harbour, and the area was reclaimed in stages between the mid-1800s and the 1960s to create the site and current shoreline (using imported fill materials). The site has been predominately operated as a marina, yacht club and shipyard. Other historical and current site uses have included power station, aircraft hangar, ferry terminal, trucking terminal, police marine unit, sea cadet operation, Canadian Coast Guard facility, maintenance facility, and construction equipment storage yard. Other uses of the site included storage and bulk-breaking of shipping cargo, phosphate fertilizer storage, and commercial uses (e.g., restaurants and office space) and skating rink.

Bayview Park was reportedly developed as early as 1847 when a Glass manufacturing facility opened. It was in operation until circa 1897. It is assumed the site has been vacant since the Glass factory ceased to exist, and has likely been a public park ever since.

<table>
<thead>
<tr>
<th>Year</th>
<th>Name of Owner</th>
<th>Description of Property Use</th>
<th>Other Observations (Aerial Photographs, Fire Insurance Plans, etc.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Information to be provided in Final Report</td>
</tr>
</tbody>
</table>

7.2 Potentially Contaminating Activity (PCA)

The following PCAs were identified on Piers 5 to 8 and Bayview Park, and off-site, within the Phase One study areas:

On-site (Piers 5 to 8):

- Airstrips and Hangars Operations (#3)
- Commercial Trucking and Container Terminals (#11)
- Crude Oil Refining, Processing and Bulk Storage (#14)
- Electricity Generation, Transformation and Power Stations (#18)
- Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles (#27)
- Gasoline and Associated Products Storage in Fixed Tanks (#28):
  - Hamilton Port Authority Gas Station, 3 USTs
  - Possible former UST at west end of heated storage building
  - Hamilton Marine Police Unit Gas Pump and UST (no longer in use)
    - Hamilton Marine Police Unit AST on west side of building
    - Possible USTs on north side of Brewer’s Marine Supply (former Laidlaw Facility)
- Former AST on south side of Navy League
- Former Heating Oil UST at Long Shoreman’s Association office on south side of Shed 6
- Heating oil UST at Oceans Towing office (no longer in use), East end of Shed 8
- Possible former UST on Northwest corner of Hamilton Port Authority Warehouse (Shed 7)
  - Importation of Fill Material of Unknown Quality (#30)
  - Port Activities, including Operation and Maintenance of Wharves and Docks (#44)
  - Storage, maintenance, fuelling and repair of equipment, vehicles and material used to maintain transportation systems (#52)
  - Small-scale fuel and chemical storage (PCA Other #1)
  - Storage of steel and construction equipment (PCA Other #2)

**On-site (Bayview Park):**
- Glass Manufacturing (#29)

**Off-site within Piers 5 to 8 Phase One Study Area**
- Glass Manufacturing (#29)
- Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosoils and soil conditioners (#58)

**Off-site within Bayview Park Phase One Study Area**
- No off-site PCAs for Bayview Park

Further discussion is provided in the table below to link each PCA with an APEC that may impact the site. Rationale is provided to evaluate whether the PCA/APEC warrant further study in a Phase Two ESA.

### 7.2.1 Areas of Potential Environmental Concern

Areas of potential environmental concern are detailed in the table below. **Figure 3** illustrate the spatial distribution and location of the APECs.
### Phase One CSM Table 1
### Phase One ESA APECs

<table>
<thead>
<tr>
<th>Area of Potential Concern</th>
<th>Location of APEC on Phase One Property</th>
<th>Potentially Contaminating Activity</th>
<th>Location of PCA (on-site or off-site)</th>
<th>Contaminants of Potential Concern</th>
<th>Media Potentially Impacted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pier 5 – Royal Hamilton Yacht Club</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1a</td>
<td>Pier 5</td>
<td>30. Importation of Fill Material of Unknown Quality;</td>
<td>On-site; Pier 5, entire area</td>
<td>Metals, inorganics, PAHs, PHCs</td>
<td>Soil, groundwater</td>
</tr>
<tr>
<td>1b</td>
<td>Pier 5</td>
<td>30. Importation of Fill Material of Unknown Quality;</td>
<td>On-site; Pier 5, former Royal Hamilton Yacht Club building north of current building</td>
<td>Metals, inorganics, PAHs, PHCs</td>
<td>Soil, groundwater</td>
</tr>
<tr>
<td>1c</td>
<td>Pier 5</td>
<td>30. Importation of Fill Material of Unknown Quality;</td>
<td>Off-site; Bayview Park, COCs potentially enter Pier 5 on South side; On-site fill material</td>
<td>Metals, inorganics, PAHs, PHCs</td>
<td>Soil, groundwater</td>
</tr>
</tbody>
</table>
### Phase One CSM Table 1
#### Phase One ESA APECs

<table>
<thead>
<tr>
<th>Area of Potential Concern</th>
<th>Location of APEC on Phase One Property</th>
<th>Potentially Contaminating Activity</th>
<th>Location of PCA (on-site or off-site)</th>
<th>Contaminants of Potential Concern</th>
<th>Media Potentially Impacted</th>
</tr>
</thead>
<tbody>
<tr>
<td>44.</td>
<td></td>
<td>Port Activities, including operation and maintenance of Docks and Wharves.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>27. Garages and Maintenance of Marine Vehicles;</td>
<td></td>
<td>On-site; Junior Sailor’s Building</td>
<td>Metals, inorganics, PAH, PHCs, VOCs</td>
<td>Soil, groundwater</td>
<td></td>
</tr>
<tr>
<td>30.</td>
<td>Importation of Fill Material of Unknown Quality;</td>
<td>2a Pier 6&amp;7</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1d</td>
<td>Pier 5</td>
<td>On-site; Hamilton Port Authority Office/Maintenance</td>
<td>Metals, inorganics, PAHs, PHCs</td>
<td>Soil, groundwater</td>
<td></td>
</tr>
<tr>
<td>2b</td>
<td>Pier 6</td>
<td>27. Garages and Maintenance and Repair of Railcars, Marine</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pier 6 and 7 – Hamilton Port Authority</td>
<td></td>
<td>On-site; Pier 6 and 7, entire area</td>
<td>Metals, inorganics, PAHs, PHCs</td>
<td>Soil, groundwater</td>
<td></td>
</tr>
<tr>
<td>44.</td>
<td>Port Activities, including operation and maintenance of Docks and Wharves.</td>
<td>44. Port Activities, including operation and maintenance of Docks and Wharves.</td>
<td>On-site; Hamilton Port Authority Office/Maintenance</td>
<td>Metals, inorganics, PHCs, VOCs</td>
<td>Soil, groundwater</td>
</tr>
<tr>
<td>Area of Potential Concern</td>
<td>Location of APEC on Phase One Property</td>
<td>Potentially Contaminating Activity</td>
<td>Location of PCA (on-site or off-site)</td>
<td>Contaminants of Potential Concern</td>
<td>Media Potentially Impacted</td>
</tr>
<tr>
<td>--------------------------</td>
<td>---------------------------------------</td>
<td>-----------------------------------</td>
<td>---------------------------------------</td>
<td>----------------------------------</td>
<td>---------------------------</td>
</tr>
<tr>
<td>2c</td>
<td>Pier 6</td>
<td>Vehicles and Aviation Vehicles;</td>
<td>Building</td>
<td>PAH</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>30. Importation of Fill Material of Unknown Quality;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>44. Port Activities, including operation and maintenance of Docks and Wharves.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2d</td>
<td>Pier 6</td>
<td>28. Gasoline and Associated Products Stored in Fixed Tanks;</td>
<td>On-site; three USTs and petroleum fuelling station</td>
<td>Metals, inorganics, PAH, PHCs</td>
<td>Soil, groundwater</td>
</tr>
<tr>
<td></td>
<td></td>
<td>30. Importation of Fill Material of Unknown Quality;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>44. Port Activities, including operation and maintenance of Docks and Wharves.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>27. Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation</td>
<td>On-site; Heated Storage Building;</td>
<td>Metals, inorganics, PAH, PHCs, VOCs</td>
<td>Soil, groundwater</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Phase One CSM Table 1
#### Phase One ESA APECs

<table>
<thead>
<tr>
<th>Area of Potential Concern</th>
<th>Location of APEC on Phase One Property</th>
<th>Potentially Contaminating Activity</th>
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<th>Contaminants of Potential Concern</th>
<th>Media Potentially Impacted</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Vehicles;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>30. Importation of Fill Material of Unknown Quality;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>44. Port Activities, including operation and maintenance of Docks and Wharves.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>28. Gasoline and Associated Products Stored in Fixed Tanks;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>30. Importation of Fill Material of Unknown Quality;</td>
<td>On-site; Heated Storage Building former heating fuel UST;</td>
<td>Metals, inorganics, PAH, PHCs</td>
<td>Soil, groundwater</td>
</tr>
<tr>
<td>2e</td>
<td>Pier 6</td>
<td>44. Port Activities, including operation and maintenance of Docks and Wharves.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>30. Importation of Fill Material of Unknown Quality;</td>
<td>On-site; area around former James Street Pier ferry terminal</td>
<td>Metals, inorganics, PAH, PHCs</td>
<td>Soil, groundwater</td>
</tr>
<tr>
<td>2f</td>
<td>Pier 6</td>
<td>44. Port Activities, including operation and maintenance of Docks and Wharves.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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### Phase One ESA APECs

<table>
<thead>
<tr>
<th>Area of Potential Concern</th>
<th>Location of APEC on Phase One Property</th>
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<th>Location of PCA (on-site or off-site)</th>
<th>Contaminants of Potential Concern</th>
<th>Media Potentially Impacted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wharves;</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>52. Storage, maintenance, fuelling and repair of equipment, vehicles and material used to maintain transportation systems.</td>
<td>10. Commercial Autobody Shop;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>28. Gasoline and Associated Products Storage I Fixed Tanks;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2g Pier 6</td>
<td>30. Importation of Fill Material of Unknown Quality;</td>
<td>Off-site; former autobody shop on Hughson Street upgradient of site</td>
<td>Metals, inorganics, PHCs, VOCs</td>
<td>Soil, groundwater</td>
<td></td>
</tr>
<tr>
<td>44. Port Activities, including operation and maintenance of Docks and Wharves</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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### Phase One ESA APECs

<table>
<thead>
<tr>
<th>Area of Potential Concern</th>
<th>Location of APEC on Phase One Property</th>
<th>Potentially Contaminating Activity</th>
<th>Location of PCA (on-site or off-site)</th>
<th>Contaminants of Potential Concern</th>
<th>Media Potentially Impacted</th>
</tr>
</thead>
</table>

**Pier 7 – Police Marine Unit**

<p>| | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>27.</td>
<td>Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles;</td>
<td>Pier 7</td>
<td>On-site; Police Marine Unit Office Building and surround lands</td>
<td>Metals, inorganics, PAH, PHCs</td>
<td>Soil, groundwater</td>
</tr>
<tr>
<td>3a</td>
<td>Pier 7</td>
<td>30.</td>
<td>Importation of Fill Material of Unknown Quality;</td>
<td>44. Port Activities, including operation and maintenance of Docks and Wharves.</td>
<td></td>
</tr>
<tr>
<td>28.</td>
<td>Gasoline and Associated Products Storage in Fixed Tanks;</td>
<td>30.</td>
<td>Importation of Fill Material of Unknown Quality;</td>
<td>3b</td>
<td>Pier 7</td>
</tr>
<tr>
<td>3b</td>
<td>Pier 7</td>
<td>44. Port Activities, including operation and maintenance of Docks and Wharves</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Piers 5 to 8 and Bayview Park, Phase I ESA - DRAFT
Hamilton Waterfront Trust, Hamilton, ON
February 2015 – 14-1137
### Phase One ESA APECs

<table>
<thead>
<tr>
<th>Area of Potential Concern</th>
<th>Location of APEC on Phase One Property</th>
<th>Potentially Contaminating Activity</th>
<th>Location of PCA (on-site or off-site)</th>
<th>Contaminants of Potential Concern</th>
<th>Media Potentially Impacted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pier 7</td>
<td></td>
<td>28. Gasoline and Associated Products Storage in Fixed Tanks;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pier 8</td>
<td></td>
<td>30. Importation of Fill Material of Unknown Quality;</td>
<td>On-site; Police Marine Unit Office fuel UST</td>
<td>Metals, inorganics, PAH, PHCs</td>
<td>Soil, groundwater</td>
</tr>
<tr>
<td></td>
<td></td>
<td>44. Port Activities, including operation and maintenance of Docks and Wharves.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Pier 8 – Brewers Marine Supply

<table>
<thead>
<tr>
<th>Area of Potential Concern</th>
<th>Location of APEC on Phase One Property</th>
<th>Potentially Contaminating Activity</th>
<th>Location of PCA (on-site or off-site)</th>
<th>Contaminants of Potential Concern</th>
<th>Media Potentially Impacted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pier 8</td>
<td></td>
<td>11. Commercial Trucking and Container Terminals;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>18. Electricity Generation, Transformation and Power Stations;</td>
<td>On-site; 65 Guise Street, entire site including current Brewer’s Marine Supply warehouse and surrounding lands</td>
<td>Metals, inorganics, PAH, PHCs, VOCs</td>
<td>Soil, groundwater</td>
</tr>
<tr>
<td></td>
<td></td>
<td>30. Importation of Fill Material of Unknown Quality;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>44. Port Activities, including operation and maintenance of</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Area of Potential Concern</td>
<td>Location of APEC on Phase One Property</td>
<td>Potentially Contaminating Activity</td>
<td>Location of PCA (on-site or off-site)</td>
<td>Contaminants of Potential Concern</td>
<td>Media Potentially Impacted</td>
</tr>
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<tr>
<td></td>
<td></td>
<td>Docks and Wharves;</td>
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<tr>
<td></td>
<td></td>
<td>PCA Other 1. Small-scale chemical storage.</td>
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<tr>
<td></td>
<td></td>
<td>28. Gasoline and Associated Products Storage in Fixed Tanks;</td>
<td>On-site; 65 Guise Street, former UST/AST fuel location north of current warehouse</td>
<td>Metals, inorganics, PAH, PHCs</td>
<td>Soil, groundwater</td>
</tr>
<tr>
<td></td>
<td></td>
<td>30. Importation of Fill Material of Unknown Quality;</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>44. Port Activities, including operation and maintenance of Docks and Wharves.</td>
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<tr>
<td></td>
<td></td>
<td>3. Airstrips and Hangars Operations;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>28. Gasoline and Associated Products Storage in Fixed Tanks;</td>
<td>On-site; 65 Guise Street, former airplane hangar location west of Brewers Marine Supply warehouse</td>
<td>Metals, inorganics, PAH, PHCs</td>
<td>Soil, groundwater</td>
</tr>
<tr>
<td></td>
<td></td>
<td>30. Importation of Fill Material of Unknown Quality;</td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>
### Phase One CSM Table 1
**Phase One ESA APECs**

<table>
<thead>
<tr>
<th>Area of Potential Concern</th>
<th>Location of APEC on Phase One Property</th>
<th>Potentially Contaminating Activity</th>
<th>Location of PCA (on-site or off-site)</th>
<th>Contaminants of Potential Concern</th>
<th>Media Potentially Impacted</th>
</tr>
</thead>
<tbody>
<tr>
<td>44. Port Activities, including operation and maintenance of Docks and Wharves.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Pier 8 – Oil Pipeline</strong></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>14. Crude Oil Refining, Processing and Bulk Storage;</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>30. Importation of Fill Material of Unknown Quality;</td>
<td></td>
<td></td>
<td>On and off-site traversing through Pier 8 and southeast of Pier 8</td>
<td>PHCs</td>
<td>Soil, groundwater</td>
</tr>
<tr>
<td>44. Port Activities, including operation and maintenance of Docks and Wharves.</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td><strong>Pier 8 – Hamilton Port Authority Shed 4</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11. Commercial Trucking and Container Terminals;</td>
<td></td>
<td></td>
<td>On-site; Hamilton Port Authority Shed 4 and surrounding area</td>
<td>Metals, inorganics, PAH, PHCs</td>
<td>Soil, groundwater</td>
</tr>
<tr>
<td>30. Importation of Fill Material of Unknown Quality;</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>44. Port Activities, including</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

### Phase One CSM Table 1
**Phase One ESA APECs**

<table>
<thead>
<tr>
<th>Area of Potential Concern</th>
<th>Location of APEC on Phase One Property</th>
<th>Potentially Contaminating Activity</th>
<th>Location of PCA (on-site or off-site)</th>
<th>Contaminants of Potential Concern</th>
<th>Media Potentially Impacted</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Operation and Maintenance of Wharves and Docks</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.</td>
<td></td>
<td>Commercial Trucking and Container Terminals;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>27.</td>
<td></td>
<td>Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles;</td>
<td>On-site; Hamilton Port Authority Shed 4 north end of building</td>
<td>Metals, inorganics, PAH, PHCs, VOCs</td>
<td>Soil, groundwater</td>
</tr>
<tr>
<td>30.</td>
<td></td>
<td>Importation of Fill Material of Unknown Quality;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>44.</td>
<td></td>
<td>Port Activities, including Operation and Maintenance of Wharves and Docks.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Pier 8 – Marine Services**

<table>
<thead>
<tr>
<th>27.</th>
<th>Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles;</th>
<th>On-site; Harbour Marine Services Building and surrounding area</th>
<th>Metals, inorganics, PHCs, PAHs, VOCs, Glycol</th>
<th>Soil, groundwater</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>Pier 8</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Phase One CSM Table 1
Phase One ESA APECs

<table>
<thead>
<tr>
<th>Area of Potential Concern</th>
<th>Location of APEC on Phase One Property</th>
<th>Potentially Contaminating Activity</th>
<th>Location of PCA (on-site or off-site)</th>
<th>Contaminants of Potential Concern</th>
<th>Media Potentially Impacted</th>
</tr>
</thead>
<tbody>
<tr>
<td>30. Importation of Fill Material of Unknown Quality; 44. Port Activities, including Operation and Maintenance of Wharves and Docks.</td>
<td></td>
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<td></td>
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</tbody>
</table>

**Pier 8 – Hamilton Port Authority Shed 6**

<table>
<thead>
<tr>
<th>27. Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles; 30. Importation of Fill Material of Unknown Quality; 44. Port Activities, including Operation and Maintenance of Wharves and Docks.</th>
</tr>
</thead>
<tbody>
<tr>
<td>8a Pier 8</td>
</tr>
<tr>
<td>Area of Potential Concern</td>
</tr>
<tr>
<td>---------------------------</td>
</tr>
<tr>
<td>8b Pier 8</td>
</tr>
<tr>
<td></td>
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<tr>
<td>8c Pier 8</td>
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<tr>
<td></td>
</tr>
<tr>
<td>8d Pier 8</td>
</tr>
</tbody>
</table>
### Phase One CSM Table 1
Phase One ESA APECs

<table>
<thead>
<tr>
<th>Area of Potential Concern</th>
<th>Location of APEC on Phase One Property</th>
<th>Potentially Contaminating Activity</th>
<th>Location of PCA (on-site or off-site)</th>
<th>Contaminants of Potential Concern</th>
<th>Media Potentially Impacted</th>
</tr>
</thead>
<tbody>
<tr>
<td>44. Port Activities, including Operation and Maintenance of Wharves and Docks;</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>55. Transformer Manufacturing, Processing and Use</td>
<td>Pier 8</td>
<td></td>
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<td></td>
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</tr>
<tr>
<td><strong>Pier 8 – Bermingham Foundation Solution Yard</strong></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>30. Importation of Fill Material of Unknown Quality;</td>
<td>Pier 8</td>
<td>On-site; Bermingham Foundations, outdoor equipment storage</td>
<td>Metals, Inorganics, PHCs, PAH, VOCs</td>
<td>Soil, groundwater</td>
<td></td>
</tr>
<tr>
<td>44. Port Activities, including Operation and Maintenance of Wharves and Docks;</td>
<td>Pier 8</td>
<td>On-site; Bermingham Foundations, outdoor equipment storage</td>
<td>Metals, Inorganics, PHCs, PAH, VOCs</td>
<td>Soil, groundwater</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>PCA Other 2. Construction Equipment Storage</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Pier 8 – Hamilton Port Authority Shed 7</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>27. Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles;</td>
<td>Pier 8</td>
<td>On-site; Shed 7 and surrounding area</td>
<td>Metals, Inorganics, PHCs, VOCs</td>
<td>Soil, Groundwater</td>
<td></td>
</tr>
<tr>
<td>10a Pier 8</td>
<td></td>
<td></td>
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</tbody>
</table>
## Phase One CSM Table 1
### Phase One ESA APECs

<table>
<thead>
<tr>
<th>Area of Potential Concern</th>
<th>Location of APEC on Phase One Property</th>
<th>Potentially Contaminating Activity</th>
<th>Location of PCA (on-site or off-site)</th>
<th>Contaminants of Potential Concern</th>
<th>Media Potentially Impacted</th>
</tr>
</thead>
<tbody>
<tr>
<td>30.</td>
<td></td>
<td>Importation of Fill Material of Unknown Quality;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>44.</td>
<td></td>
<td>Port Activities, including Operation and Maintenance of Wharves and Docks</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>28.</td>
<td></td>
<td>Gasoline and Associated Products Storage in Fixed Tanks;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30.</td>
<td>Pier 8</td>
<td>Importation of Fill Material of Unknown Quality;</td>
<td>On-site; fuel UST at NW corner of Shed 7</td>
<td>Metals, inorganics, PAH, PHCs</td>
<td>Soil, Groundwater</td>
</tr>
<tr>
<td>44.</td>
<td></td>
<td>Port Activities, including Operation and Maintenance of Wharves and Docks</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Pier 8 - Navy League

<table>
<thead>
<tr>
<th>Area of Potential Concern</th>
<th>Location of APEC on Phase One Property</th>
<th>Potentially Contaminating Activity</th>
<th>Location of PCA (on-site or off-site)</th>
<th>Contaminants of Potential Concern</th>
<th>Media Potentially Impacted</th>
</tr>
</thead>
<tbody>
<tr>
<td>30.</td>
<td>Pier 8</td>
<td>Importation of Fill Material of Unknown Quality;</td>
<td>On-site; entire property in vicinity of Navy League Building and yard</td>
<td>Metals, inorganics, PAH, PHCs</td>
<td>Soil, Groundwater</td>
</tr>
<tr>
<td>44.</td>
<td></td>
<td>Port Activities, including Operation and Maintenance of</td>
<td></td>
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</tbody>
</table>
**Phase One CSM Table 1**  
**Phase One ESA APECs**

<table>
<thead>
<tr>
<th>Area of Potential Concern</th>
<th>Location of APEC on Phase One Property</th>
<th>Potentially Contaminating Activity</th>
<th>Location of PCA (on-site or off-site)</th>
<th>Contaminants of Potential Concern</th>
<th>Media Potentially Impacted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wharves and Docks.</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>28.</td>
<td>Gasoline and Associated Products Storage in Fixed Tanks;</td>
<td>On-site; former heating oil UST south of Navy League Building</td>
<td>Metals, inorganics, PHCs, PAH</td>
<td>Soil, Groundwater</td>
<td></td>
</tr>
<tr>
<td>Pier 8</td>
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</tr>
<tr>
<td>11b</td>
<td>Gasoline and Associated Products Storage in Fixed Tanks;</td>
<td>On-site; former heating oil UST south of Navy League Building</td>
<td>Metals, inorganics, PHCs, PAH</td>
<td>Soil, Groundwater</td>
<td></td>
</tr>
<tr>
<td>27.</td>
<td>Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles;</td>
<td>On-site; workshop and surrounding area east of Navy League Building</td>
<td>Metals, inorganics, PHCs, PAH VOCs.</td>
<td>Soil, Groundwater</td>
<td></td>
</tr>
<tr>
<td>11c</td>
<td>Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles;</td>
<td>On-site; workshop and surrounding area east of Navy League Building</td>
<td>Metals, inorganics, PHCs, PAH VOCs.</td>
<td>Soil, Groundwater</td>
<td></td>
</tr>
<tr>
<td>44.</td>
<td>Port Activities, including Operation and Maintenance of Wharves and Docks</td>
<td>On-site; workshop and surrounding area east of Navy League Building</td>
<td>Metals, inorganics, PHCs, PAH VOCs.</td>
<td>Soil, Groundwater</td>
<td></td>
</tr>
</tbody>
</table>

**Notes:**
- APEC: Area of Potential Concern
- PCA: Potential Contaminating Activity
- PHCs: Polycyclic Aromatic Hydrocarbons
- PAH: Polycyclic Aromatic Hydrocarbons
- VOC: Volatile Organic Compounds
<table>
<thead>
<tr>
<th>Area of Potential Concern</th>
<th>Location of APEC on Phase One Property</th>
<th>Potentially Contaminating Activity</th>
<th>Location of PCA (on-site or off-site)</th>
<th>Contaminants of Potential Concern</th>
<th>Media Potentially Impacted</th>
</tr>
</thead>
<tbody>
<tr>
<td>11d Pier 8</td>
<td></td>
<td>30. Importation of Fill Material of Unknown Quality;</td>
<td>Off-site; from former landfill located SE of site, affecting south and east sides of Navy League property</td>
<td>Metals, inorganics, PHCs, PAH, VOCs</td>
<td>Soil, Groundwater</td>
</tr>
<tr>
<td></td>
<td></td>
<td>44. Port Activities, including Operation and Maintenance of Wharves and Docks;</td>
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<td></td>
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</tr>
<tr>
<td></td>
<td></td>
<td>58. Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosoils as soil conditioners.</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

**Bayview Park**

<table>
<thead>
<tr>
<th>Area of Potential Concern</th>
<th>Location of APEC on Phase One Property</th>
<th>Potentially Contaminating Activity</th>
<th>Location of PCA (on-site or off-site)</th>
<th>Contaminants of Potential Concern</th>
<th>Media Potentially Impacted</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 Bayview Park</td>
<td>29. Glass Manufacturing</td>
<td>On-site from former Glass Factory</td>
<td>Metals, inorganics, PHCs</td>
<td>Soil, Groundwater</td>
<td></td>
</tr>
</tbody>
</table>

The water table across the majority of the site has been reported to be between 0.2 m bgs (Peto McCallum, 1993) and 3.7 m bgs (Peto McCallum, 2009). Due to the depth to the water table, it is possible for groundwater to be impacted by APECs identified at the site and within the study area.
7.2.2 Uncertainty Assessment

The uncertainty or absence of information obtained in each of the components of the Phase One ESA could affect the conclusions presented above if fundamentally different activities or contaminants of concern were reported at the site in the past. The previous assessments that were reviewed did not identify significantly different ground/contamination conditions from what is anticipated based on the findings of this Phase One ESA.

7.2.3 Phase One Conceptual Site Model

Roads, land use of adjacent properties to the site and areas of potential environmental concern are identified on Figure 3. The phase one conceptual site model detailing the physical conditions for the site is presented as Figure 5. The model identifying current site conditions is presented as Figure 6. Future Conditions are considered to be the scenario where the site has been developed for residential/parkland purposes, shown in Figure 7. As a conservative approach, Future Conditions consider that development would occur across the entire site. A detailed description of potentially contaminating activities and potential contaminants of concern are provided in the sections above.

Geological, hydrological and hydrogeological information is provided in Section 4.3.2. In general, the overburden thickness at the site is on the order of 20 to 45 metres and consists of fill (varying thickness) overlying native gravel, sand, silt and clay. Regional groundwater flow direction within the site could not be assessed at this time, however, it is assumed to flow in a northerly direction towards Hamilton Harbour. Local groundwater flow conditions may deviate from regional trends, and it is expected that shallow local groundwater flow at each APEC will be directed to the closest surface water feature.

There were no areas of natural significance located in whole or in part on the Phase One Study Area. There were no water wells located in whole or in part on the Phase One Study Area; a monitoring well was identified within the study area.

The known underground utilities present on-site include Imperial Oil, Sun Canadian and various other utilities such as municipal water and sewer, hydro, telecommunications, etc., which service the businesses operating at the site. The buried utilities on-site could affect potential contaminant transport if a shallow, mobile source were present. The lines and associated backfill could act as a channel facilitating transport through the site. No utilities are known to exist within Bayview Park; however, buried piping is anticipated to be associated with the park’s splash pad.

The above information, including the information shown on Figure 3, was used to develop the conceptual site models presented as Figures 5, 6 and 7.

In summary, the source-pathway-receptor linkages that can be inferred from the information obtained in the Phase One ESA, and that forms the basis of the CSM, are as follows:
## Existing Site Condition:

<table>
<thead>
<tr>
<th>Source</th>
<th>Exposure Pathway</th>
<th>Receptor</th>
</tr>
</thead>
</table>
| **APEC 1a**  
Pier 5  
Metals, inorganics, PHCs, PAHs | Ingestion/Dermal Contact with Soi  
Inhalation of Duffs in Outdoor Air  
Inhalation of Vapour in Outdoor Air  
Inadvertent groundwater dermal contact/ingestion | Indoor workers; Outdoor Short Term Workers; Remediation/Construction Workers; Site visitors; Ecological Receptors |
| **APEC 1b**  
Pier 5 – former HRYC building  
Metals, inorganics, PHCs, PAHs | Ingestion/Dermal Contact with Soi  
Inhalation of Duffs in Outdoor Air  
Inhalation of Vapour in Outdoor Air  
Inadvertent groundwater dermal contact/ingestion | Outdoor Short Term Workers; Remediation/Construction Workers; Site visitors; Ecological Receptors |
| **APEC 1c**  
South portion of Pier 5  
Metals, inorganics, PAH, PHCs | Ingestion/Dermal Contact with Soi  
Inhalation of Duffs in Outdoor Air  
Inhalation of Vapour in Outdoor Air  
Inadvertent groundwater dermal contact/ingestion | Outdoor Short Term Workers; Remediation/Construction Workers; Site visitors; Ecological Receptors |
| **APEC 1d**  
Jr. Sailor’s Building  
Metals, inorganics, PHCs, PAHs, VOCs | Ingestion/Dermal Contact with Soi  
Inhalation of Duffs in Outdoor Air  
Inhalation of Vapour in Outdoor Air  
Inadvertent groundwater dermal contact/ingestion | Indoor workers; Outdoor Short Term Workers; Remediation/Construction Workers; Site visitors; Ecological Receptors |
| **APEC 2a**  
Pier 6 – HPA  
Metals, inorganics, PHCs, PAHs | Ingestion/Dermal Contact with Soi  
Inhalation of Duffs in Outdoor Air  
Inhalation of Vapour in Outdoor Air  
Inadvertent groundwater dermal contact/ingestion | Outdoor Short Term Workers; Remediation/Construction Workers; Site visitors; Ecological Receptors |
| **APEC 2b**  
Pier 6 – HPA Office & Shop  
Metals, inorganics, PHCs, PAHs, VOCs | Ingestion/Dermal Contact with Soi  
Inhalation of Duffs in Outdoor Air  
Inhalation of Vapour in Outdoor Air  
Inadvertent groundwater dermal contact/ingestion | Indoor workers; Outdoor Short Term Workers; Remediation/Construction Workers; Site visitors; Ecological Receptors |
| **APEC 2c**  
Pier 6 – HPA Fuel USTs  
Metals, inorganics, PHCs, PAHs | Ingestion/Dermal Contact with Soi  
Inhalation of Duffs in Outdoor Air  
Inhalation of Vapour in Outdoor Air  
Inadvertent groundwater dermal contact/ingestion | Outdoor Short Term Workers; Remediation/Construction Workers; Site visitors; Ecological Receptors |
### Existing Site Condition:

<table>
<thead>
<tr>
<th>Source</th>
<th>Exposure Pathway</th>
<th>Receptor</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Inadvertent groundwater dermal contact/ingestion</strong></td>
<td><strong>Inadvertent groundwater dermal contact/ingestion</strong></td>
<td><strong>Inadvertent groundwater dermal contact/ingestion</strong></td>
</tr>
</tbody>
</table>
| **APEC 2d**  
Pier 6 –  
HPA  
Heated Storage Bldg | Metals, inorganics, PHCs, PAHs, VOCs | Indoor workers; Outdoor Short Term Workers; Remediation/Construction Workers; Site visitors; Ecological Receptors |
| **APEC 2e**  
Pier 6 –  
HPA  
Heating Oil UST | Metals, inorganics, PHCs, PAHs | Outdoor Short Term Workers; Remediation/Construction Workers; Site visitors; Ecological Receptors |
| **APEC 2f**  
Pier 6 –  
HPA  
James St. Pier | Metals, inorganics, PHCs, PAHs | Outdoor Short Term Workers; Remediation/Construction Workers; Site visitors; Ecological Receptors |
| **APEC 2g**  
Pier 6 –  
South Portion of Pier 6 | Metals, inorganics, PHCs, PAHs | Outdoor Short Term Workers; Remediation/Construction Workers; Site visitors; Ecological Receptors |
| **APEC 3a**  
Pier 7 –  
Marine Police Bldg & general area | Metals, inorganics, PHCs, PAHs | Indoor workers; Outdoor Short Term Workers; Remediation/Construction Workers; Site visitors; Ecological Receptors |
| **APEC 3b**  
Pier 7 –  
Marine Police Heating Oil AST | Metals, inorganics, PHCs, PAHs | Outdoor Short Term Workers; Remediation/Construction Workers; Site visitors; Ecological Receptors |
### Existing Site Condition:

<table>
<thead>
<tr>
<th>Source</th>
<th>Exposure Pathway</th>
<th>Receptor</th>
</tr>
</thead>
</table>
| APEC 3c  | Pier 7 – Marine Police Fuel UST  
Metals, inorganics, PHCs, PAHs  
Ingestion/Dermal Contact with Soil  
Inhalation of Dests in Outdoor Air  
Inhalation of Vapour in Outdoor Air  
Inadvertent groundwater dermal contact/ingestion | Outdoor Short Term Workers; Remediation/Construction Workers; Site visitors; Ecological Receptors |
| APEC 4a  | Pier 8 - 65 Guise Street, general area & Bldg  
Metals, inorganics, PHCs, PAHs, VOCs  
Ingestion/Dermal Contact with Soil  
Inhalation of Dests in Outdoor Air  
Inhalation of Vapour in Outdoor Air  
Inadvertent groundwater dermal contact/ingestion | Indoor workers; Outdoor Short Term Workers; Remediation/Construction Workers; Site visitors; Ecological Receptors |
| APEC 4b  | Pier 8 – 65 Guise Street, former fuel USTs  
Metals, inorganics, PHCs, PAHs  
Ingestion/Dermal Contact with Soil  
Inhalation of Dests in Outdoor Air  
Inhalation of Vapour in Outdoor Air  
Inadvertent groundwater dermal contact/ingestion | Outdoor Short Term Workers; Remediation/Construction Workers; Site visitors; Ecological Receptors |
| APEC 4c  | Pier 8 – 65 Guise Street, former airplane hangar  
Metals, inorganics, PHCs, PAHs  
Ingestion/Dermal Contact with Soil  
Inhalation of Dests in Outdoor Air  
Inhalation of Vapour in Outdoor Air  
Inadvertent groundwater dermal contact/ingestion | Outdoor Short Term Workers; Remediation/Construction Workers; Site visitors; Ecological Receptors |
| APEC 5   | Pier 8 – Pipeline Corridor  
PHCs  
Ingestion/Dermal Contact with Soil  
Inhalation of Dests in Outdoor Air  
Inhalation of Vapour in Outdoor Air  
Inadvertent groundwater dermal contact/ingestion | Outdoor Short Term Workers; Remediation/Construction Workers; Site visitors; Ecological Receptors |
| APEC 6a  | Pier 8 – HPA Shed 4 Bldg & area  
Metals Inorganics  
PHCs, PAHs  
Ingestion/Dermal Contact with Soil  
Inhalation of Dests in Outdoor Air  
Inhalation of Vapour in Outdoor Air  
Inadvertent groundwater dermal contact/ingestion | Outdoor Short Term Workers; Remediation/Construction Workers; Site visitors; Ecological Receptors |
| APEC 6b  | Pier 8 – HPA Shed 4 North end  
Metals Inorganics  
PHCs, PAHs, VOCs | Indoor workers; Outdoor Short Term Workers; Remediation/Construction Workers; Site visitors; Ecological Receptors |
## Existing Site Condition:

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<tbody>
<tr>
<td><strong>APEC 7</strong>&lt;br&gt;Pier 8 – Harbour Marine Services</td>
<td>Metals, inorganics, PHCs, PAHs, VOCs, Glycol</td>
<td>Inadvertent groundwater dermal contact/ingestion</td>
</tr>
<tr>
<td><strong>APEC 8a</strong>&lt;br&gt;Pier 8 – Shed 6 and former shipping yard</td>
<td>Metals, inorganics, PHCs, PAHs, PCBs, VOCs, Glycol</td>
<td>Ingestion/Dermal Contact with Soil&lt;br&gt;Inhalation of Dusts in Outdoor Air&lt;br&gt;Inhalation of Vapour in Outdoor Air&lt;br&gt;Inadvertent groundwater dermal contact/ingestion</td>
</tr>
<tr>
<td><strong>APEC 8b</strong>&lt;br&gt;Pier 8 – heating oil UST NE side of Shed 6.</td>
<td>Metals, inorganics, PHCs, PAHs</td>
<td>Ingestion/Dermal Contact with Soil&lt;br&gt;Inhalation of Dusts in Outdoor Air&lt;br&gt;Inhalation of Vapour in Outdoor Air&lt;br&gt;Inadvertent groundwater dermal contact/ingestion</td>
</tr>
<tr>
<td><strong>APEC 8c</strong>&lt;br&gt;Pier 8 – heating oil UST S side of Shed 6.</td>
<td>Metals, inorganics, PHCs, PAHs</td>
<td>Ingestion/Dermal Contact with Soil&lt;br&gt;Inhalation of Dusts in Outdoor Air&lt;br&gt;Inhalation of Vapour in Outdoor Air&lt;br&gt;Inadvertent groundwater dermal contact/ingestion</td>
</tr>
<tr>
<td><strong>APEC 8d</strong>&lt;br&gt;Pier 8 – transformer area W side of Shed 6</td>
<td>Metals, inorganics, PHCs, PAHs, PCBs</td>
<td>Ingestion/Dermal Contact with Soil&lt;br&gt;Inhalation of Dusts in Outdoor Air&lt;br&gt;Inhalation of Vapour in Outdoor Air&lt;br&gt;Inadvertent groundwater dermal contact/ingestion</td>
</tr>
<tr>
<td><strong>APEC 9</strong>&lt;br&gt;Pier 8 – Metal Storage yard</td>
<td>Metals, Inorganics, PHCs, PAHs, VOCs</td>
<td>Ingestion/Dermal Contact with Soil&lt;br&gt;Inhalation of Dusts in Outdoor Air&lt;br&gt;Inhalation of Vapour in Outdoor Air&lt;br&gt;Inadvertent groundwater dermal contact/ingestion</td>
</tr>
<tr>
<td><strong>APEC 10a</strong>&lt;br&gt;Pier 8 - Shed 7</td>
<td>Metals, inorganics, PHCs,</td>
<td>Ingestion/Dermal Contact with Soil&lt;br&gt;Inhalation of Dusts in Outdoor Air</td>
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<tr>
<td>and area</td>
<td>VOCs</td>
<td>Inhalation of Vapour in Outdoor Air</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Inadvertent groundwater dermal contact/ingestion</td>
</tr>
<tr>
<td><strong>APEC 10b</strong></td>
<td>Metals, inorganics, PHCs, PAHs</td>
<td><strong>Outdoor Short Term Workers</strong>; <strong>Remediation/ Construction Workers</strong>; <strong>Site visitors</strong>; <strong>Ecological Receptors</strong></td>
</tr>
<tr>
<td>Pier 8 – heating oil UST NW corner of Shed 7</td>
<td>Ingestion/Dermal Contact with Soil</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Inhalation of Dusts in Outdoor Air</td>
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<td>Inhalation of Vapour in Outdoor Air</td>
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<td></td>
<td>Inadvertent groundwater dermal contact/ingestion</td>
<td></td>
</tr>
<tr>
<td><strong>APEC 11a</strong></td>
<td>Metals, inorganics, PHCs, PAHs</td>
<td><strong>Indoor workers</strong>; <strong>Outdoor Short Term Workers</strong>; <strong>Remediation/ Construction Workers</strong>; <strong>Site visitors</strong>; <strong>Ecological Receptors</strong></td>
</tr>
<tr>
<td>Pier 8 – Navy League Bldg and area</td>
<td>Ingestion/Dermal Contact with Soil</td>
<td></td>
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<tr>
<td></td>
<td>Inhalation of Dusts in Outdoor Air</td>
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<tr>
<td><strong>APEC 11b</strong></td>
<td>Metals, inorganics, PHCs, PAHs</td>
<td><strong>Outdoor Short Term Workers</strong>; <strong>Remediation/ Construction Workers</strong>; <strong>Site visitors</strong>; <strong>Ecological Receptors</strong></td>
</tr>
<tr>
<td>Pier 8 – former heating oil AST S side of Bldg</td>
<td>Ingestion/Dermal Contact with Soil</td>
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</tr>
<tr>
<td></td>
<td>Inhalation of Dusts in Outdoor Air</td>
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<tr>
<td><strong>APEC 11c</strong></td>
<td>Metals, inorganics, PHCs, PAHs, VOCs</td>
<td><strong>Indoor workers</strong>; <strong>Outdoor Short Term Workers</strong>; <strong>Remediation/ Construction Workers</strong>; <strong>Site visitors</strong>; <strong>Ecological Receptors</strong></td>
</tr>
<tr>
<td>Pier 8 – Workshop</td>
<td>Ingestion/Dermal Contact with Soil</td>
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<tr>
<td></td>
<td>Inhalation of Dusts in Outdoor Air</td>
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<td>Inadvertent groundwater dermal contact/ingestion</td>
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<tr>
<td><strong>APEC 11d</strong></td>
<td>Metals, inorganics, PHCs, PAHs, VOCs</td>
<td><strong>Outdoor Short Term Workers</strong>; <strong>Remediation/ Construction Workers</strong>; <strong>Site visitors</strong>; <strong>Ecological Receptors</strong></td>
</tr>
<tr>
<td>Pier 8 – South and east boundary</td>
<td>Ingestion/Dermal Contact with Soil</td>
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<tr>
<td></td>
<td>Inhalation of Dusts in Outdoor Air</td>
<td></td>
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<td>Inhalation of Vapour in Outdoor Air</td>
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<td></td>
<td>Inadvertent groundwater dermal contact/ingestion</td>
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<tr>
<td><strong>APEC 12</strong></td>
<td>Metals, inorganics, PHCs</td>
<td><strong>Outdoor Short Term Workers</strong>; <strong>Remediation/ Construction Workers</strong>; <strong>Site visitors</strong>; <strong>Ecological Receptors</strong></td>
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<tr>
<td>Bayview Park</td>
<td>Ingestion/Dermal Contact with Soil</td>
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<td></td>
<td>Inhalation of Dusts in Outdoor Air</td>
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<td>Inadvertent groundwater dermal contact/ingestion</td>
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<tr>
<th>Source</th>
<th>Exposure Pathway</th>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>APEC 1a</strong> Pier 5</td>
<td>Ingestion/Dermal Contact with Soil</td>
<td>Future Residents (all ages); Indoor Workers;</td>
</tr>
<tr>
<td></td>
<td>Inhalation of Duffs in Outdoor Air</td>
<td>Outdoor Short Term Workers; Construction</td>
</tr>
<tr>
<td></td>
<td>Inhalation of Vapour in Outdoor Air</td>
<td>Workers; Site Visitors; Ecological Receptors</td>
</tr>
<tr>
<td></td>
<td>Inadvertent groundwater dermal contact/ingestion</td>
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</tr>
<tr>
<td><strong>APEC 1b</strong> Pier 5 – former</td>
<td>Ingestion/Dermal Contact with Soil</td>
<td>Future Residents (all ages); Indoor Workers;</td>
</tr>
<tr>
<td>HRYC building</td>
<td>Inhalation of Duffs in Outdoor Air</td>
<td>Outdoor Short Term Workers; Construction</td>
</tr>
<tr>
<td></td>
<td>Inhalation of Vapour in Outdoor Air</td>
<td>Workers; Site Visitors; Ecological Receptors</td>
</tr>
<tr>
<td></td>
<td>Inadvertent groundwater dermal contact/ingestion</td>
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<tr>
<td><strong>APEC 1c</strong> South portion</td>
<td>Ingestion/Dermal Contact with Soil</td>
<td>Future Residents (all ages); Indoor Workers;</td>
</tr>
<tr>
<td>Pier 5</td>
<td>Inhalation of Duffs in Outdoor Air</td>
<td>Outdoor Short Term Workers; Construction</td>
</tr>
<tr>
<td></td>
<td>Inhalation of Vapour in Outdoor Air</td>
<td>Workers; Site Visitors; Ecological Receptors</td>
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<td>Inadvertent groundwater dermal contact/ingestion</td>
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<tr>
<td><strong>APEC 1d</strong> Jr. Sailor's</td>
<td>Ingestion/Dermal Contact with Soil</td>
<td>Future Residents (all ages); Indoor Workers;</td>
</tr>
<tr>
<td>Building</td>
<td>Inhalation of Duffs in Outdoor Air</td>
<td>Outdoor Short Term Workers; Construction</td>
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<td>Inhalation of Vapour in Outdoor Air</td>
<td>Workers; Site Visitors; Ecological Receptors</td>
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<td>Inadvertent groundwater dermal contact/ingestion</td>
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<tr>
<td><strong>APEC 2a</strong> Pier 6 - HPA</td>
<td>Ingestion/Dermal Contact with Soil</td>
<td>Future Residents (all ages); Indoor Workers;</td>
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<tr>
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<td>Inhalation of Duffs in Outdoor Air</td>
<td>Outdoor Short Term Workers; Construction</td>
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<tr>
<td><strong>APEC 2b</strong> Pier 6 – HPA</td>
<td>Ingestion/Dermal Contact with Soil</td>
<td>Future Residents (all ages); Indoor Workers;</td>
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<tr>
<td>Office &amp; Shop</td>
<td>Inhalation of Duffs in Outdoor Air</td>
<td>Outdoor Short Term Workers; Construction</td>
</tr>
<tr>
<td></td>
<td>Inhalation of Vapour in Outdoor Air</td>
<td>Workers; Site Visitors; Ecological Receptors</td>
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<td>Inadvertent groundwater dermal contact/ingestion</td>
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<tr>
<td><strong>APEC 2c</strong> Pier 6 – HPA</td>
<td>Ingestion/Dermal Contact with Soil</td>
<td>Future Residents (all ages); Indoor Workers;</td>
</tr>
<tr>
<td>Fuel USTs</td>
<td>Inhalation of Duffs in Outdoor Air</td>
<td>Outdoor Short Term Workers; Construction</td>
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<td>Inhalation of Vapour in Outdoor Air</td>
<td>Workers; Site Visitors; Ecological Receptors</td>
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<tr>
<td><strong>APEC 2d</strong> Pier 6 – HPA Heated Storage Bldg</td>
<td>Inadvertent groundwater dermal contact/ingestion</td>
<td>Future Residents (all ages); Indoor Workers; Outdoor Short Term Workers; Construction Workers; Site Visitors; Ecological Receptors</td>
</tr>
<tr>
<td><strong>APEC 2e</strong> Pier 6 – HPA Heating Oil UST</td>
<td>Metals, inorganics, PHCs, PAHs; Ingestion/Dermal Contact with Soil; Inhalation of Dusts in Outdoor Air; Inhalation of Vapour in Outdoor Air; Inadvertent groundwater dermal contact/ingestion</td>
<td>Future Residents (all ages); Indoor Workers; Outdoor Short Term Workers; Construction Workers; Site Visitors; Ecological Receptors</td>
</tr>
<tr>
<td><strong>APEC 2f</strong> Pier 6 – HPA James St. Pier</td>
<td>Metals, inorganics, PHCs, PAHs; Ingestion/Dermal Contact with Soil; Inhalation of Dusts in Outdoor Air; Inhalation of Vapour in Outdoor Air; Inadvertent groundwater dermal contact/ingestion</td>
<td>Future Residents (all ages); Indoor Workers; Outdoor Short Term Workers; Construction Workers; Site Visitors; Ecological Receptors</td>
</tr>
<tr>
<td><strong>APEC 2g</strong> Pier 6 – South Portion of Pier 6</td>
<td>Metals, inorganics, PHCs, VOCs; Ingestion/Dermal Contact with Soil; Inhalation of Dusts in Outdoor Air; Inhalation of Vapour in Outdoor Air; Inadvertent groundwater dermal contact/ingestion</td>
<td>Future Residents (all ages); Indoor Workers; Outdoor Short Term Workers; Construction Workers; Site Visitors; Ecological Receptors</td>
</tr>
<tr>
<td><strong>APEC 3a</strong> Pier 7 – Marine Police Bldg &amp; general area</td>
<td>Metals, inorganics, PHCs, PAHs; Ingestion/Dermal Contact with Soil; Inhalation of Dusts in Outdoor Air; Inhalation of Vapour in Outdoor Air; Inadvertent groundwater dermal contact/ingestion</td>
<td>Future Residents (all ages); Indoor Workers; Outdoor Short Term Workers; Construction Workers; Site Visitors; Ecological Receptors</td>
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<tr>
<td><strong>APEC 3b</strong> Pier 7 – Marine Police Heating Oil AST</td>
<td>Metals, inorganics, PHCs, PAHs; Ingestion/Dermal Contact with Soil; Inhalation of Dusts in Outdoor Air; Inhalation of Vapour in Outdoor Air; Inadvertent groundwater dermal contact/ingestion</td>
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| **APEC 3c**  
Pier 7 – Marine Police  
Fuel UST | Metals, inorganics, PHCs, PAHs  
Ingestion/Dermal Contact with Soil  
Inhalation of Dusts in Outdoor Air  
Inhalation of Vapour in Outdoor Air  
Inadvertent groundwater dermal contact/ingestion | Future Residents (all ages);  
Indoor Workers; Outdoor Short Term Workers; Construction Workers; Site Visitors;  
Ecological Receptors |
| **APEC 4a**  
Pier 8 – 65 Guise Street,  
general area & Bldg | Metals, inorganics, PHCs, PAHs, VOCs  
Ingestion/Dermal Contact with Soil  
Inhalation of Dusts in Outdoor Air  
Inhalation of Vapour in Outdoor Air  
Inadvertent groundwater dermal contact/ingestion | Future Residents (all ages);  
Indoor Workers; Outdoor Short Term Workers; Construction Workers; Site Visitors;  
Ecological Receptors |
| **APEC 4b**  
Pier 8 – 65 Guise Street,  
former fuel USTs | Metals, inorganics, PHCs, PAHs  
Ingestion/Dermal Contact with Soil  
Inhalation of Dusts in Outdoor Air  
Inhalation of Vapour in Outdoor Air  
Inadvertent groundwater dermal contact/ingestion | Future Residents (all ages);  
Indoor Workers; Outdoor Short Term Workers; Construction Workers; Site Visitors;  
Ecological Receptors |
| **APEC 4c**  
Pier 8 – 65 Guise Street,  
former airplane hangar | Metals, inorganics, PHCs, PAHs  
Ingestion/Dermal Contact with Soil  
Inhalation of Dusts in Outdoor Air  
Inhalation of Vapour in Outdoor Air  
Inadvertent groundwater dermal contact/ingestion | Future Residents (all ages);  
Indoor Workers; Outdoor Short Term Workers; Construction Workers; Site Visitors;  
Ecological Receptors |
| **APEC 5**  
Pier 8 – Pipeline Corridor | PHCs  
Ingestion/Dermal Contact with Soil  
Inhalation of Dusts in Outdoor Air  
Inhalation of Vapour in Outdoor Air  
Inadvertent groundwater dermal contact/ingestion | Future Residents (all ages);  
Indoor Workers; Outdoor Short Term Workers; Construction Workers; Site Visitors;  
Ecological Receptors |
| **APEC 6a**  
Pier 8 – HPA Shed  
4 Bldg & area | Metals Inorganics PHCs, PAHs  
Ingestion/Dermal Contact with Soil  
Inhalation of Dusts in Outdoor Air  
Inhalation of Vapour in Outdoor Air  
Inadvertent groundwater dermal contact/ingestion | Future Residents (all ages);  
Indoor Workers; Outdoor Short Term Workers; Construction Workers; Site Visitors;  
Ecological Receptors |
| **APEC 6b**  
Pier 8 – HPA Shed  
4 North end | Metals Inorganics PHCs, PAHs, VOCs  
Ingestion/Dermal Contact with Soil  
Inhalation of Dusts in Outdoor Air  
Inhalation of Vapour in Outdoor Air | Future Residents (all ages);  
Indoor Workers; Outdoor Short Term Workers; Construction Workers; Site Visitors;  
Ecological Receptors |
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<td><strong>APEC 7</strong> Pier 8 – Harbour Marine Services</td>
<td>Inadvertent groundwater dermal contact/ingestion</td>
<td>Future Residents (all ages); Indoor Workers; Outdoor Short Term Workers; Construction Workers; Site Visitors; Ecological Receptors</td>
</tr>
<tr>
<td><strong>APEC 8a</strong> Pier 8 – Shed 6 and former shipping yard</td>
<td>Metals, inorganics, PHCs, PAHs, Glycol Ingestion/Dermal Contact with Soil Inhalation of Dusts in Outdoor Air Inhalation of Vapour in Outdoor Air Inadvertent groundwater dermal contact/ingestion</td>
<td>Future Residents (all ages); Indoor Workers; Outdoor Short Term Workers; Construction Workers; Site Visitors; Ecological Receptors</td>
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<tr>
<td><strong>APEC 8b</strong> Pier 8 – heating oil UST NE side of Shed 6.</td>
<td>Metals, inorganics, PHCs, PAHs Ingestion/Dermal Contact with Soil Inhalation of Dusts in Outdoor Air Inhalation of Vapour in Outdoor Air Inadvertent groundwater dermal contact/ingestion</td>
<td>Future Residents (all ages); Indoor Workers; Outdoor Short Term Workers; Construction Workers; Site Visitors; Ecological Receptors</td>
</tr>
<tr>
<td><strong>APEC 8c</strong> Pier 8 – heating oil UST S side of Shed 6.</td>
<td>Metals, inorganics, PHCs, PAHs Ingestion/Dermal Contact with Soil Inhalation of Dusts in Outdoor Air Inhalation of Vapour in Outdoor Air Inadvertent groundwater dermal contact/ingestion</td>
<td>Future Residents (all ages); Indoor Workers; Outdoor Short Term Workers; Construction Workers; Site Visitors; Ecological Receptors</td>
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<tr>
<td><strong>APEC 8d</strong> Pier 8 – transformer area W side of Shed 6</td>
<td>Metals, inorganics, PHCs, PAHs, PCBs Ingestion/Dermal Contact with Soil Inhalation of Dusts in Outdoor Air Inhalation of Vapour in Outdoor Air Inadvertent groundwater dermal contact/ingestion</td>
<td>Future Residents (all ages); Indoor Workers; Outdoor Short Term Workers; Construction Workers; Site Visitors; Ecological Receptors</td>
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<td><strong>APEC 9</strong> Pier 8 – Metal Storage yard</td>
<td>Metals, Inorganics, PHCs, PAHs, VOCs Ingestion/Dermal Contact with Soil Inhalation of Dusts in Outdoor Air Inhalation of Vapour in Outdoor Air Inadvertent groundwater dermal contact/ingestion</td>
<td>Future Residents (all ages); Indoor Workers; Outdoor Short Term Workers; Construction Workers; Site Visitors; Ecological Receptors</td>
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<td><strong>APEC 10a</strong> Pier 8 – Shed 7</td>
<td>Metals, Inorganics, PHCs, PAHs, VOCs Ingestion/Dermal Contact with Soil Inhalation of Dusts in Outdoor Air Inadvertent groundwater dermal contact/ingestion</td>
<td>Future Residents (all ages); Indoor Workers; Outdoor Short Term Workers; Construction Workers; Site Visitors; Ecological Receptors</td>
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<td>Future Site Conditions:</td>
<td>Exposure Pathway</td>
<td>Receptor*</td>
</tr>
<tr>
<td>------------------------</td>
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</tr>
<tr>
<td>Source and area VOCs</td>
<td>Inhalation of Vapour in Outdoor Air</td>
<td>Workers; Site Visitors; Ecological Receptors</td>
</tr>
<tr>
<td>APEC 10b Pier 8 – heating oil UST NW corner of Shed 7</td>
<td>Ingestion/Dermal Contact with Soil Inhalation of Dusts in Outdoor Air Inhalation of Vapour in Outdoor Air Inadvertent groundwater dermal contact/ingestion</td>
<td>Future Residents (all ages); Indoor Workers; Outdoor Short Term Workers; Construction Workers; Site Visitors; Ecological Receptors</td>
</tr>
<tr>
<td>APEC 11a Pier 8 – Navy League Bldg and area</td>
<td>Ingestion/Dermal Contact with Soil Inhalation of Dusts in Outdoor Air Inhalation of Vapour in Outdoor Air Inadvertent groundwater dermal contact/ingestion</td>
<td>Future Residents (all ages); Indoor Workers; Outdoor Short Term Workers; Construction Workers; Site Visitors; Ecological Receptors</td>
</tr>
<tr>
<td>APEC 11b Pier 8 – former heating oil AST S side of Bldg</td>
<td>Ingestion/Dermal Contact with Soil Inhalation of Dusts in Outdoor Air Inhalation of Vapour in Outdoor Air Inadvertent groundwater dermal contact/ingestion</td>
<td>Future Residents (all ages); Indoor Workers; Outdoor Short Term Workers; Construction Workers; Site Visitors; Ecological Receptors</td>
</tr>
<tr>
<td>APEC 11c Pier 8 – Workshop</td>
<td>Ingestion/Dermal Contact with Soil Inhalation of Dusts in Outdoor Air Inhalation of Vapour in Outdoor Air Inadvertent groundwater dermal contact/ingestion</td>
<td>Future Residents (all ages); Indoor Workers; Outdoor Short Term Workers; Construction Workers; Site Visitors; Ecological Receptors</td>
</tr>
<tr>
<td>APEC 11d Pier 8 – South and east boundary</td>
<td>Ingestion/Dermal Contact with Soil Inhalation of Dusts in Outdoor Air Inhalation of Vapour in Outdoor Air Inadvertent groundwater dermal contact/ingestion</td>
<td>Future Residents (all ages); Indoor Workers; Outdoor Short Term Workers; Construction Workers; Site Visitors; Ecological Receptors</td>
</tr>
<tr>
<td>APEC 12 Bayview Park</td>
<td>Ingestion/Dermal Contact with Soil Inhalation of Dusts in Outdoor Air Inhalation of Vapour in Outdoor Air Inadvertent groundwater dermal contact/ingestion</td>
<td>Future Residents (all ages); Indoor Workers; Outdoor Short Term Workers; Construction Workers; Site Visitors; Ecological Receptors</td>
</tr>
</tbody>
</table>
* Future site conditions and property use were not determined at the time this report was written. Therefore, establishing the receptors for the final land use considered all scenarios for each APEC.

Groundwater will not be used for drinking water at this site. Correspondence (pending) documenting the Use of Non-Potable Ground Criteria at the site is shown in Appendix B.

7.2.4 Conceptual Site Model Uncertainty

There is inherent uncertainty in the conceptual site model as it is based upon theoretically present contaminants of concern, potentially contaminating activities and areas of potential environmental concern. The CSM also relies on the information available from database sources being correct and the information provided by historical reports being accurate. If the assumptions made in the development of the conceptual site model are incorrect or the information used is inaccurate, it is possible that contaminants could be missed or areas of potential environmental concern not considered.
Conclusions

This Phase One ESA was determined to be of an appropriate scope and scale to meet the objectives identified in Section 2.0 of this report. As required, the Phase One ESA report provided a record of the study completed for the Phase One Property that demonstrated in a manner that was clear and could be assessed, tested and reconstructed how the Phase One ESA was carried out. The PCAs and APECs identified during the Phase One ESA have been summarized in Section 7.2.

8.1 Whether Phase Two Environmental Site Assessment Required Before Record of Site Condition Submitted

Based on the results of the Phase One ESA, a Phase Two ESA is required for the Phase One Property before a Record of Site Condition can be filed because there is potential soil and/or groundwater contamination at the property.

<table>
<thead>
<tr>
<th>Year</th>
<th>Name of Owner</th>
<th>Description of Property Use</th>
<th>Property Use</th>
<th>Other Observations (Aerial Photographs, Fire Insurance Plans, etc.)</th>
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<tr>
<td></td>
<td>Piers 5 Through 8, Bayview Park</td>
<td>Information to be provided in final report, pending receipt of Title Search information</td>
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</table>

8.2 Record of Site condition Based on Phase One Environmental Site Assessment Alone

This property is not eligible for submission of an RSC based on a Phase One ESA alone.

8.3 Signatures

Section 10.0 presents the report limitations associated with the findings and conclusions of the Phase One ESA. The signature of the Qualified Person for this Phase One ESA is presented in Section 10.0. By signing the report, the Qualified Person confirms that the relevant findings and conclusions of the Phase One ESA are included in the report.
9.0 References

Canadian Standards Association (CSA, 2001), Phase I Environmental Site Assessment Z768-01, November 2001 (reaffirmed 2012).


Fisher Archaeological Consulting, 2013, West Harbour Piers 5 to 8, Pumping Station and Forcemain(s), Environmental Assessment, City of Hamilton, Ontario, Stage 1 Background Study, Final Report, November 22, 2013.


Peto MacCallum Ltd. 2009b. GeoEnvironmental Investigation, Pier 8, Hamilton Harbour, 47 Discovery Drive, Hamilton, ON. April, 2009.


Limitations

This report was prepared exclusively for the purposes, project and site location(s) outlined in the report. The report is based on information provided to, or obtained by Dillon Consulting Limited ("Dillon") as indicated in the report, and applies solely to site conditions existing at the time of the site investigation. Although Dillon conducted a reasonable investigation, the investigation was by no means exhaustive and cannot be construed as a certification of the absence of any contaminants from the site. Rather, Dillon's report represents a reasonable review of available information within an agreed work scope, schedule and budget. It is therefore possible that currently unrecognized contamination or potentially hazardous materials may exist at the site, and that the levels of contamination or hazardous materials may vary across the site. Further review and updating of the report may be required as local and site conditions, and the regulatory and planning frameworks, change over time.

This report was prepared by Dillon for the sole benefit of our client, Hamilton Waterfront Trust. The material in the report reflects Dillon's judgment in light of the information available to Dillon at the time of preparation. Any use which a third party makes of this report, or any reliance on or decisions made based on it, are the responsibilities of such third parties. Dillon accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made based on this report.

Respectfully submitted,

DILLON CONSULTING LIMITED

Sherry Dosman, A.Sc.T
Environmental Technologist

Darin Burr.,
Project Manager

Rob Kell, P.Eng., P.Geo.
Qualified Person (Environmental Site Assessment)
Figures
These figures are to be interpreted in conjunction with the reports titled "Hamilton Waterfront Trust, Piers 5 to 8 and Bayview Park, Phase One Environmental Site Assessment".
PHASE ONE
ENVIRONMENTAL SITE ASSESSMENT

SURROUNDING LAND USE

These figures are to be interpreted in conjunction with the reports titled "Hamilton Waterfront Trust, Piers 5 to 8 and Bayview Park, Phase One Environmental Site Assessment".
<table>
<thead>
<tr>
<th>APEC</th>
<th>Location of Potentially Contaminating Activity</th>
<th>Potential Contaminating Activity</th>
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<tr>
<td>Pl. 5</td>
<td>On-site (Police Marine Unit Office Building and General Area)</td>
<td>27. Garages and Maintenance of Railcars, Marine Vehicles and Aviation Vehicles; 30. Importation of Fill Material of Unknown Quality; 32. Storage, maintenance equipment, vehicle and material used to maintain transportation systems.</td>
</tr>
<tr>
<td>11c</td>
<td>Off-site (Former Royal Hamilton Yacht Club Building)</td>
<td>24. Importation of Fill Material of Unknown Quality; 33. Port Activities, including operation and maintenance of Docks and Wharves.</td>
</tr>
<tr>
<td>11d</td>
<td>Off-site (Former Gas Works Building)</td>
<td>26. Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles; 44. Port Activities, including operation and maintenance of Docks and Wharves.</td>
</tr>
<tr>
<td>11a</td>
<td>Off-site (Hamiton Waterfront Trust Piers 5 to 8 and Bayview Park Phase One Environmental Site Assessment)</td>
<td>11. Communal Housing and Container Terminals; 18. Electricity Generation, Transformation and Power Stations; 30. Importation of Fill Material of Unknown Quality; 44. Port Activities, including Operation and Maintenance of Docks and Wharves; PCA Other 1. Small-scale chemical storage.</td>
</tr>
<tr>
<td>11b</td>
<td>Off-site (65 Guise Street, Former JST/AST Fuel Location)</td>
<td>26. Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles; 44. Port Activities, including Operation and Maintenance of Docks and Wharves; 49. Transformer Manufacturing, Processing and Use.</td>
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<tr>
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<td>Off-site (Former Glass Factory)</td>
<td>27. Garages and Maintenance of Railcars, Marine Vehicles and Aviation Vehicles; 30. Importation of Fill Material of Unknown Quality; 44. Port Activities, including Operation and Maintenance of Docks and Wharves.</td>
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### Table Of Areas of Potential Environmental Concern (APECs) and Potential Contaminating Areas (PCAs) to accompany Figure 3.

**Pl. 5**

<table>
<thead>
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<tr>
<td>1a</td>
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<td>22. Importation of Fill Material of Unknown Quality; 44. Port Activities, including Operation and Maintenance of Docks and Wharves.</td>
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<td>1b</td>
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<td>26. Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles; 44. Port Activities, including Operation and Maintenance of Docks and Wharves.</td>
</tr>
<tr>
<td>1c</td>
<td>Off-site (Bayview Park)</td>
<td>24. Importation of Fill Material of Unknown Quality; 32. Storage, maintenance equipment, vehicle and material used to maintain transportation systems.</td>
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### Pl. 6 & 7

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<td>Off-site (General Area)</td>
<td>22. Importation of Fill Material of Unknown Quality; 44. Port Activities, including Operation and Maintenance of Docks and Wharves.</td>
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<tr>
<td>2b</td>
<td>On-site (Hamilton Port Authority Office/Maintenance Building)</td>
<td>26. Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles; 44. Port Activities, including Operation and Maintenance of Docks and Wharves.</td>
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<tr>
<td>2c</td>
<td>On-site (Nautical Fueling Station)</td>
<td>26. Garages and Maintenance of Marine Vehicles; 30. Importation of Fill Material of Unknown Quality; 44. Port Activities, including Operation and Maintenance of Docks and Wharves.</td>
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<td>2f</td>
<td>On-site (Former James St. Ferry Terminal)</td>
<td>26. Garages and Maintenance of Marine Vehicles; 30. Importation of Fill Material of Unknown Quality; 44. Port Activities, including Operation and Maintenance of Docks and Wharves.</td>
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<tr>
<td>2g</td>
<td>Off-site (Former Autobus Shop on Hughson Street)</td>
<td>26. Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles; 30. Importation of Fill Material of Unknown Quality; 44. Port Activities, including Operation and Maintenance of Docks and Wharves.</td>
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### Pl. 7

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<tr>
<td>4c</td>
<td>On-site (Former Glass Factory)</td>
<td>27. Garages and Maintenance of Railcars, Marine Vehicles and Aviation Vehicles; 41. Electrical Substations; 44. Port Activities, including Operation and Maintenance of Docks and Wharves.</td>
</tr>
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</table>
These figures are to be interpreted in conjunction with the reports titled "Hamilton Waterfront Trust, Piers 5 to 8 and Bayview Park, Phase One Environmental Site Assessment".
These figures are to be interpreted in conjunction with the reports titled "Hamilton Waterfront Trust, Piers 5 to 8 and Bayview Park, Phase One Environmental Site Assessment".
Appendix A

Legal Survey
Appendix B

Land Registry Records
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<td>Year: 2005/2006</td>
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<td>Site Address:</td>
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<td>52 Burlington Street West, Hamilton, Ontario</td>
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</table>

- All listings for businesses were listed as they are in the city directory.

- Listings that are residential are listed as “residential” with the number of tenants. The name of the residential tenant is not listed in the above city directory.
PROPERTY DESCRIPTION:
PT THE BED OF HAMILTON HARBOUR IN FRONT OF LT 16 TO 20 CON 1 BARTON PT 1, 2, 3, 4 62R15142; PT LANDS COVERED BY WATER OR FORMERLY COVERED BY WATER IN FRONT OF LT 16 & 17 CON 1 BARTON AND IN FRONT OF RDAL BTN LT 16 & 17 CON 1 BARTON PT 1 CD280084; PT LANDS COVERED BY WATER OR FORMERLY COVERED BY WATER IN FRONT OF BLK 34, 35, 37, 39 PL 127; LT 1 BLK 37 PL 127; PT LT 2 BLK 37 PL 127 PT 2 CD280084; PT LT 9-11 BLK 35 PL 127 AS IN HL167344 EXCEPT 62R12134, AS IN AB173127; LT 1-2 BLK 39 PL 127; PT LT 3 BLK 39 PL 127; PT LT 14 BLK 40 PL 127; PT RUSH ST PL 127; PT LANDS COVERED BY WATER OR FORMERLY COVERED BY WATER IN FRONT OF BLK 39 & 40 PL 127 PT 3 CD280084; PT LT 4-10 BLK 39 PL 127; PT LANDS COVERED BY WATER OR FORMERLY COVERED BY WATER IN FRONT OF BLK 39 & 40 PL 127; PT LT 1-2 BLK 39 PL 127; PT LANDS COVERED BY WATER OR FORMERLY COVERED BY WATER IN FRONT OF BLK 39 & 40 PL 127 PT 3 CD280084; PT LT 5 BLK 39 PL 127; PT LT 7-13 BLK 37 PL 127; PT LT 14 BLK 40 PL 127 PT 5 62R15144; PT LT 7-13 BLK 40 PL 127; PT LT 14 BLK 40 PL 127 PT 5 6285914 EXCEPT PT 3 6286446; LT 3-7 BLK 37 PL 127; PT LT 2 BLK 37 PL 127; PT LANDS COVERED BY WATER OR FORMERLY COVERED BY WATER IN FRONT OF LT 3 TO 7 BLK 37 & PT 2 LT 37 PL 127 AS IN AB15552; PT THE BED OF HAMILTON HARBOUR IN FRONT OF LT 15 & 16 CON 1 AND LT 14 & 15 CON BF BARTON; PT WATER LT IN FRONT OF LT 14, 15 CON BF BARTON; PT LT 14 CON 1 BARTON; PT LT 5, UNNUMBERED BLK 11 PL 127; LT 4 BLK 40 PL 127; PT LT 5-6 BLK 40 PL 127; PT LT 7 BLK 40 PL 127; LT LT 1-3 BLK 41 PL 127; UNNUMBERED LT BTN BLK 40 & 41 PL 127; LT 1, 2, 3 NATHANIEL HUGHSON SURVEY (UNREGISTERED) N/S GUISE ST BTN JOHN ST & CATHARINE ST; LT13 NATHANIEL HUGHSON SURVEY (UNREGISTERED) N/S GIUSE ST BTN JOHN ST & CANNON ST PT 1, 2, 3, 4, 5, 6, 7, 9, 12, 13, 15, 16, 17, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 44, 45, 48, 49, 50 62815663, S/T VM243936, S/T VM497911; S/T VM120338, VM188725, VM242052, VM78000; CITY OF HAMILTON

PROPERTY REMARKS:
ESTATE/QUALIFIER:
RECENTLY:
PIN CREATION DATE:
FEE SIMPLE
LT CONVERSION QUALIFIED
OWNERS'/NAMES
CAPACITY
SHARE
THE CORPORATION OF THE CITY OF HAMILTON

REG. NUM. DATE INSTRUMENT TYPE AMOUNT PARTIES FROM PARTIES TO CERT/CHK

** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE: 2010/10/22 **

**SUBJECT, IN 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 ESCHATOLOGY OR ESQUELAT AS ITS FORTUM 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: 2010/10/25 **

HA332653 1930/12/31 TRANSFER $79,729 THE CORPORATION OF THE CITY OF HAMILTON C

HL167344 1961/06/29 BY-LAW ATTACHED.

REMARKS: SKETCH ATTACHED.

AB15552 1966/06/09 PLAN EXPROPRIATION THE CORPORATION OF THE CITY OF HAMILTON C

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

NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.
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**NOTES:**
- Adjoining properties should be investigated to ascertain descriptive inconsistencies, if any, with description represented for this property.
- Ensure that your printout states the total number of pages and that you have picked them all up.
Appendix C

Aerial Photos
Aerial Photograph RA13-72, National Air Photo Library

Photograph Year - 1927

Original photograph scale 1:8,000, modified scale unknown.
Appendix D

Fire Insurance Plans and Historic Information
Site Address:  
Discovery Drive  
Hamilton, Ontario

Project No:  
20121207018

Opta Order ID:  

Requested by:  
Eleanor Goolab  
Ecolog Eris

Date Completed:  
March 13, 2013
Opta Environmental Services

Historical Environmental Information Reporting System (HEIRSTM)

March 13, 2013

Eleanor Goolab
Ecolog Eris
80 Valleybrooke Drive
Toronto, Ontario. M3B 2S9

Dear Eleanor,

Re: Your Site Address: Discovery Drive, Hamilton, Ontario
   Your Project No.: 20121207018

As requested, we have searched our records regarding the above site and the following information was found:

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<th>Information</th>
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<th>Comment</th>
<th>Cost</th>
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<td></td>
<td>$50.00 flat fee per street address. No charges</td>
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Subtotal                                |                                   | $200.00                                      |        |

Minimum order fee of $155.00            | Applicable                        |                                              |        |
2 (two)/4 (four) Day Rush Service       | N/A                               |                                              |        |

Total                                   |                                   | $200.00                                      |        |

NRF: No Records Found. NO: Not Ordered.

The total cost for this report is $200.00 plus courier charges (if applicable) and HST. Please see the Terms and Conditions for our search on page two of this report.

Thank you for employing the services of Opta Information Intelligence.

Sunita Kapoor
Opta Environmental Services
Opta Environmental Services
Historical Environmental Information Reporting System (HEIRS™)
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. 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.
This document is owned by Opta Information Intelligence Inc. and is subject to copyright protection. Please see the purchase order relating to the release of this document for complete terms and conditions.
Plate 1: 1836 map showing lot layout in study area. Source: Hamilton Public Library

Plate 3: 1846 map showing lot layout in study area. Source: Hamilton Public Library.

Plate 4: 1850 map showing lot layout in study area. Source: University of Toronto
Plate 5: 1875 map from the Illustrated Historical Atlas of the County of Wentworth

Plate 6: 1876 Bird’s Eye View drawing of study area. Source Hamilton Public Library
Plate 7: 1893 Bird’s Eye View drawing of study area. Source: Hamilton Public Library

Plate 8: 1909 Bird’s Eye View drawing of study area. Source: Hamilton Public Library
Plate 9: 1926 Hamilton Harbour Canadian Hydrographic map. Source: Hamilton Public Library

Plate 10: 1938 Topographic map, current area of Pier 5 to 8 added for reference. Source: Fisher, 2013
Plate 11: 1952 Hamilton Harbour Canadian Hydrographic map. Source: Hamilton Public Library

Plate 12: 1952 Aerial view of Piers 5 to 8 (looking north). Source: Hamilton Waterfront Trust

Plate 14: 1954 Aerial view of Piers 5 to 8, looking south. Source: Hamilton Waterfront Trust.
Plate 15: Aerial view of Piers 6 to 8, looking west, annotation added. Source: Hamilton Waterfront Trust.

Plate 16: 1959 Hamilton Harbour Canadian Hydrographic map. Source: Hamilton Public Library.
Plate 17: 1969 Aerial view looking south, Piers 5 to 8 in top right. Source: Hamilton Waterfront Trust.

Appendix E

Regulatory Correspondence
Fwd: West Harbour Servicing Studies

5 messages

Peters, Cory <cpeters@dillon.ca>Fri, Mar 15, 2013 at 1:21 PM
To: Doug Onishi <donishi@dillon.ca>
Cc: Stacey Mater <smater@dillon.ca>

Hey Doug,

Below is the email that you forwarded me back in November. At that time a folder called "West Harbour - Bayfront Pk to Pier 8" was in the City's FTP site. I downloaded everything on that site into our folder - P:\PROJECTS\DRAFT\West Harbour Piers 5 to 8 Study. It consisted of the three base plans, Setting Sail report, Transportation Master Plan report, and a few other PDF's. However, I have just gone back to that link and the West Harbour folder is no longer there.

Cory

--- Forwarded message ---
From: Onishi, Doug <donishi@dillon.ca>
Date: Tue, Nov 13, 2012 at 5:08 PM
Subject: Fwd: West Harbour Servicing Studies
To: Patrick Kennedy <pkennedy@dillon.ca>, Cory Peters <cpeters@dillon.ca>

fyi - Lawrence placed the information on the City ftp site so we can download.

Cory can you try to download the information off of the City's large file transfer site. Location and instructions are noted below in Lawrence's e-mail.

I have set up a folder in the P Projects draft 2012 area called West Harbour Piers 5 to 8 Study that you can put the information in.

Please let Paddy and I know when you have downloaded.

Thanks.

Doug
Doug,

I did find the digital plans Charlie had provided. I have uploaded them to the city’s ftp site.

Please click on ftp://cityhost.hamilton.ca/pubworks/PARKS/

Select the West Harbour – Bayfront Pk to Pier 8 folder

Log in ID: pubw0rks (note number 0, not letter O)

Password: pub4w0rk$

I have also uploaded the Setting Sail report, transportation report and a shoreline in fill map.

Regards,

Lawrence Stasiuk, OALA, CSLA | Landscape Architect
City of Hamilton - Public Works Department | Corporate Assets and Strategic Planning Division | Strategic Planning Group | Landscape Architectural Services
Mail: City Hall, 71 Main St. West, Hamilton, ON L8P 4Y5 Office: 77 James St. N., Suite 400, Hamilton ON, L8R 2K3 | (905) 546-2424 ext. 2292 | email: Lawrence.Stasiuk@hamilton.ca

Note: On November 1, 2012, our division name was changed to Corporate Assets and Strategic Planning
Division. Please modify your records. Thank you.

From: Onishi, Doug [mailto:donishi@dillon.ca]
Sent: November 13, 2012 10:57 AM
To: Lauricella, Charlie
Cc: Lamont, David; Stasiuk, Lawrence
Subject: Re: West Harbour Servicing Studies

Thanks Charlie.

Werner advised me that Lawrence is assisting him. I will contact Lawrence.

Doug

Onishi, Doug <donishi@dillon.ca> Fri, Mar 15, 2013 at 1:41 PM
To: Ray.Harkness@hamilton.ca, "Stasiuk, Lawrence" <Lawrence.Stasiuk@hamilton.ca>
Cc: Stacey Mater <smater@dillon.ca>, Cory Peters <cpeters@dillon.ca>, "Dore, Al" <Al.Dore@hamilton.ca>

Hello Ray, Lawrence.

Can you set up the link to the folder that is noted in Cory's e-mail below. Gord McGuire advised Al Dore that the environmental reports we are looking for was downloaded to that folder. As noted in Cory's e-mail, when we originally downloaded the plan information, we did not see the information that Gord is referring to. It is possible that this information was placed in the folder after we downloaded the available information but we do not have access anymore to check.

Thanks,

Doug
Onishi, Doug <donishi@dillon.ca>     Fri, Mar 15, 2013 at 3:41 PM

To: "Lauricella, Charlie" <Charlie.Lauricella@hamilton.ca>, "Dore, Al" <Al.Dore@hamilton.ca>
Cc: "McGuire, Gord" <Gord.McGuire@hamilton.ca>, "Stasiuk, Lawrence" <Lawrence.Stasiuk@hamilton.ca>, Stacey Mater <smater@dillon.ca>

Thanks Charlie.

We may have some of the reports from various sources but as part of our environmental review protocol all of the known agencies, government bodies etc. are contacted and reports requested. Stacey is following through with this process and through contact with the City was provided with a number of persons to contact to ensure we have all of the reports etc.

If Justin and Diana are the appropriate people to contact we can do so.

Doug

On Fri, Mar 15, 2013 at 3:29 PM, Lauricella, Charlie <Charlie.Lauricella@hamilton.ca> wrote:

Not sure of any reports, but as per my original email in November our cad files are still sitting on the S drive. It was suggested to contact Diana and Justin for the reports.

Regards,
Charlie Lauricella,
City of Hamilton
Geomatics Supervisor
This started in November of last year,... I don’t recall the location of the data.

Regards
Gord McGuire  B.Sc. O.L.S. O.L.I.P.
Manager of Geomatics and Corridor Management

Gord,

I have been asked to retrieve some environmental reports that are reported to have been you have downloaded to a folder. Can you please provide a path to the specific folder as I could not find them in the folders where I looked.

Thanks.

Lawrence Stasiuk, OALA, CSLA | Landscape Architect
City of Hamilton - Public Works Department | Corporate Assets and Strategic Planning Division | Strategic Planning Group | Landscape Architectural Services
Mail: City Hall, 71 Main St. West, Hamilton, ON L8P 4Y5  Office: 77 James St. N., Suite 400, Hamilton ON, L8R 2K3 | (905) 546-2424 ext. 2292 | email: Lawrence.Stasiuk@hamilton.ca

From: Onishi, Doug [mailto:donishi@dillon.ca]
Sent: March 15, 2013 1:42 PM
To: Harkness, Ray; Stasiuk, Lawrence
Cc: Stacey Mater; Cory Peters; Dore, Al
Subject: Fwd: West Harbour Servicing Studies

Hello Ray, Lawrence.
Can you set up the link to the folder that is noted in Cory's e-mail below. Gord McGuire advised Al Dore that the environmental reports we are looking for was downloaded to that folder. As noted in Cory's e-mail, when we originally downloaded the plan information, we did not see the information that Gord is referring to. It is possible that this information was placed in the folder after we downloaded the available information but we do not have access anymore to check.

Thanks.

Doug

---

--- Forwarded message ---

From: Peters, Cory <cpeters@dillon.ca>
Date: Fri, Mar 15, 2013 at 1:21 PM
Subject: Fwd: West Harbour Servicing Studies
To: Doug Onishi <donishi@dillon.ca>
Cc: Stacey Mater <smater@dillon.ca>

Hey Doug,

Below is the email that you forwarded me back in November. At that time a folder called "West Harbour - Bayfront Pk to Pier 8" was in the City's FTP site. I downloaded everything on that site into our folder - P:\PROJECTS\DRAFT\West Harbour Pier 5 to 8 Study. It consisted of the three base plans, Setting Sail report, Transportation Master Plan report, and a few other PDF's. However, I have just gone back to that link and the West Harbour folder is no longer there.

Cory
--- Forwarded message ---
From: Onishi, Doug <donishi@dillon.ca>
Date: Tue, Nov 13, 2012 at 5:08 PM
Subject: Fwd: West Harbour Servicing Studies
To: Patrick Kennedy <pkennedy@dillon.ca>, Cory Peters <cpeters@dillon.ca>

fyi - Lawrence placed the information on the City ftp site so we can download.

Cory can you try to download the information off of the City's large file transfer site. Location and instructions are noted below in Lawrence's e-mail.

I have set up a folder in the P Projects draft 2012 area called West Harbour Piers 5 to 8 Study that you can put the information in.

Please let Paddy and I know when you have downloaded.

Thanks.

Doug

---

Doug Onishi
Associate
Dillon Consulting Limited
WE HAVE MOVED
Suite 200 - 51 Breithaupt Street
Kitchener, Ontario, N2H 5G5
T - 519.571.9833 ext. 3107
F - 519.571.7424
M - 905.973.5982
DOnishi@dillon.ca
www.dillon.ca

Please consider the environment before printing this email

[Quoted text hidden]
[Quoted text hidden]

Doug
This message is directed in confidence solely to the person(s) named above and may contain privileged, confidential or private information which is not to be disclosed. If you are not the addressee or an authorized representative thereof, please contact the undersigned and then destroy this message.

Ce message est destiné uniquement aux personnes indiquées dans l'entête et peut contenir une information privilégiée, confidentielle ou privée et ne pouvant être divulguée. Si vous n'êtes pas le destinataire de ce message ou une personne autorisée à le recevoir, veuillez communiquer avec le soussigné et ensuite détruire ce message.

---------- Forwarded message ----------
From: "Lauricella, Charlie" <Charlie.Lauricella@hamilton.ca>
To: "Stasiuk, Lawrence" <Lawrence.Stasiuk@hamilton.ca>
Cc:
Date: Tue, 11 Sep 2012 12:12:27 -0400
Subject: West Harbour Mapping

Lawrence,

Gord attended a meeting the other day regarding mapping for the west harbour sites. He asked me to create a compiled map of the entire area. The map can be found here: S:\Planning & Economic Development\_Temporary Folder\west harbour cad. From previous project I know that Diana Morreale worked with Justin Readman, and have requested a number of maps and mapping from us and other departments. You may want to touch base with them to see what information they have.

Regards,
Charlie Lauricella,
Supervisor Technical Services
City of Hamilton
Public Works Department
Environment & Sustainable Infrastructure Division
Engineering Services Group
Surveys and Technical Services Section
77 James Street N, Suite 320
905-546-2424 ext. 2440
Fax 905-546-2463

This message and any attachments are intended only for the use of the individual to whom they are addressed and it may contain information that is privileged or confidential. If you have received this communication by mistake, please delete it.

---

Lauricella, Charlie <Charlie.Lauricella@hamilton.ca> Fri, Mar 15, 2013 at 3:43 PM
To: "Onishi, Doug" <donishi@dillon.ca>, "Dore, Al" <Al.Dore@hamilton.ca>
Cc: "McGuire, Gord" <Gord.McGuire@hamilton.ca>, "Stasiuk, Lawrence" <Lawrence.Stasiuk@hamilton.ca>, Stacey Mater <smater@dillon.ca>

They may be able to point you to the right people. I know they worked on the setting sail project a while back.

Regards,
Charlie Lauricella,
City of Hamilton
Geomastics Supervisor

---

From: Onishi, Doug [mailto:donishi@dillon.ca]
Sent: March 15, 2013 3:42 PM
To: Lauricella, Charlie; Dore, Al
Cc: McGuire, Gord; Stasiuk, Lawrence; Stacey Mater

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[Quoted text hidden]

---

Onishi, Doug <donishi@dillon.ca> Sat, Mar 16, 2013 at 2:21 PM
To: "Lauricella, Charlie" <Charlie.Lauricella@hamilton.ca>
Cc: "Dore, Al" <Al.Dore@hamilton.ca>, "McGuire, Gord" <Gord.McGuire@hamilton.ca>, "Stasiuk, Lawrence" <Lawrence.Stasiuk@hamilton.ca>, Stacey Mater <smater@dillon.ca>

Thanks Charlie.

We will follow up with them.
Is it safe to assume the Engineering Services Group - Design and Technical Services sections do not have any available environmental soils reports available for the West Harbour Piers 5 to 8 study area that includes Guise Street and Discovery Drive.

Doug

Doug Onishi
Associate
Dillon Consulting Limited
Suite 200 - 51 Breithaupt Street
Kitchener, Ontario, N2H 5G5
T - 519.571.9833 ext. 3107
F - 519.571.7424
M - 905.973.5982
DOnishi@dillon.ca
www.dillon.ca

Please consider the environment before printing this email

[Quoted text hidden]
West Harbour Piers 5 - 8 Environmental Records Request

32 messages

Stacey Mater <smater@dillon.ca>  
Wed, Mar 13, 2013 at 1:21 PM
To: Doug Onishi <donishi@dillon.ca>, 127119 <127119@dillon.ca>
Cc: Liana Labreche <llabreche@dillon.ca>

Hi Doug,

I just got a message from Udo (Udo Ehrenberg - Manager, Environment & Sustainable Infrastructure division) regarding environmental records for the West Harbour project.

He said that the normal records search would likely not be as exhaustive as we would need due to the complexity and sensitivity associated with the site, and that we should likely initiate the environmental records search process through our City contact. This will make it more likely that we will get our hands on all of the records that the City has with respect to the site as opposed to just some records that will come up through the records search process.

Udo will hopefully get back to me soon with more details on how to proceed with this request.

-Stacey

---

Stacey Mater  
Dillon Consulting Limited  
Suite 200 - 51 Breithaupt Street  
Kitchener, Ontario, N2H 5G5  
T - 519.571.9833 ext. 3136  
F - 519.571.7424  
SMater@dillon.ca  
www.dillon.ca

Please consider the environment before printing this email

Onishi, Doug <donishi@dillon.ca>  
Wed, Mar 13, 2013 at 1:25 PM
To: "Dore, Al" <AI.Dore@hamilton.ca>
Cc: Stacey Mater <smater@dillon.ca>, 127119 <127119@dillon.ca>

Hello Al.

Stacey Mater has been advised by Udo that we will get a more complete records search if someone at the City requests the information.

She is going to hear back from Udo on how to proceed with the request.

Could you assist with making the request on behalf of the City for us.

Stacey, could you send Al the outline of what we need so he can assist us.

Thanks Al.
Dore, Al <Al.Dore@hamilton.ca>  
To: donishi@dillon.ca  
Cc: smater@dillon.ca, 127119@dillon.ca

Sure....I'll speak to Udo and get back to you..

From: Onishi, Doug [mailto:donishi@dillon.ca]  
To: Dore, Al  
Cc: Stacey Mater <smater@dillon.ca>; 127119 <127119@dillon.ca>  
Subject: Fwd: West Harbour Piers 5 - 8 Environmental Records Request

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Stacey Mater <smater@dillon.ca>  
To: "Dore, Al" <Al.Dore@hamilton.ca>  
Cc: Doug Onishi <donishi@dillon.ca>, 127119 <127119@dillon.ca>, Liana Labreche <llabreche@dillon.ca>  

Hi Al,

Thanks for your assistance with the records request. I should also mention that I was directed to three different people from the City Clerk's office to obtain records, and I would expect that the process to get the information in a timely matter would be the same. Here are the people and departments I was told to contact:

Udo Ehrenberg - Manager, Environment & Sustainable Infrastructure division, Public Works department (I have been corresponding with him)  
Cari Vanderperk, Superintendent - Environmental Monitoring & Enforcement, Environment & Sustainable Infrastructure Division- Public Works (I couriered a written request yesterday)  
Frank Biancucci – Fire Prevention Chief, Fire Prevention Bureau, Emergency Services division, Hamilton Emergency Services department

We basically need any information regarding instructions, reports, spills, contamination, or other records of environmental concern at the site.
Ray Harkness provided civic addresses for the site (if these are required for the records search) and I have attached them here.

If you need to contact me today I am currently in our Oakville office at 905-901-2912 ext. 3407

Sincerely,

Stacey Mater  
Dillon Consulting Limited  
Suite 200 - 51 Breithaupt Street  
Kitchener, Ontario, N2H 5G5  
T - 519.571.9833 ext. 3136  
F - 519.571.7424  
SMater@dillon.ca  
www.dillon.ca

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[Quoted text hidden]

---

Piers 5 to 8 - Civic Addresses.pdf
3K

Dore, Al <Al.Dore@hamilton.ca>  
Thu, Mar 14, 2013 at 1:45 PM
To: Stacey Mater <smater@dillon.ca>  
Cc: Doug Onishi <donishi@dillon.ca>, 127119 <127119@dillon.ca>, Liana Labreche <llabreche@dillon.ca>

Hi Stacey : When do you need this information by ?

From: Stacey Mater [mailto:smater@dillon.ca]  
Sent: March 13, 2013 1:38 PM  
To: Dore, Al  
Cc: Doug Onishi; 127119; Liana Labreche  
Subject: Re: Fwd: West Harbour Piers 5 - 8 Environmental Records Request

Hi Al,

Thanks for your assistance with the records request. I should also mention that I was directed to three different people from the City Clerk's office to obtain records, and I would expect that the process to get the information in a timely matter would be the same. Here are the people and departments I was told to contact:

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Cari Vanderperk, Superintendent - Environmental Monitoring & Enforcement, Environment & Sustainable
Infrastructure Division - Public Works (I couriered a written request yesterday)

Frank Biancucci – Fire Prevention Chief, Fire Prevention Bureau, Emergency Services division, Hamilton Emergency Services department

We basically need any information regarding instructions, reports, spills, contamination, or other records of environmental concern at the site.

Ray Harkness provided civic addresses for the site (if these are required for the records search) and I have attached them here.

If you need to contact me today I am currently in our Oakville office at 905-901-2912 ext. 3407

Sincerely,

<table>
<thead>
<tr>
<th>Stacey Mater</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dillon Consulting Limited</td>
</tr>
<tr>
<td>Suite 200 - 51 Breithaupt Street</td>
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<tr>
<td>Kitchener, Ontario, N2H 5G5</td>
</tr>
<tr>
<td>T - 519.571.9833 ext. 3136</td>
</tr>
<tr>
<td>F - 519.571.7424</td>
</tr>
<tr>
<td><a href="mailto:SMater@dillon.ca">SMater@dillon.ca</a></td>
</tr>
<tr>
<td><a href="http://www.dillon.ca">www.dillon.ca</a></td>
</tr>
</tbody>
</table>

Please consider the environment before printing this email

On Wed, Mar 13, 2013 at 1:29 PM, Dore, Al <Al.Dore@hamilton.ca> wrote:

Sure....I'll speak to Udo and get back to you..

From: Onishi, Doug [mailto:donishi@dillon.ca]
To: Dore, Al
Cc: Stacey Mater <smater@dillon.ca>; 127119 <127119@dillon.ca>
Subject: Fwd: West Harbour Piers 5 - 8 Environmental Records Request

Hello Al.

Stacey Mater has been advised by Udo that we will get a more complete records search if someone at the City
requests the information.

She is going to hear back from Udo on how to proceed with the request.

Could you assist with making the request on behalf of the City for us.

Stacey, could you send Al the outline of what we need so he can assist us.

Thanks Al.

Doug

---

Error
Filename not specified.

--- Forwarded message ---

From: Stacey Mater <smater@dillon.ca>
Date: Wed, Mar 13, 2013 at 1:21 PM
Subject: West Harbour Piers 5 - 8 Environmental Records Request
To: Doug Onishi <donishi@dillon.ca>, 127119 <127119@dillon.ca>
Cc: Liana Labreche <llabreche@dillon.ca>

Hi Doug,

I just got a message from Udo (Udo Ehrenberg - Manager, Environment & Sustainable Infrastructure division) regarding environmental records for the West Harbour project.

He said that the normal records search would likely not be as exhaustive as we would need due to the complexity and sensitivity associated with the site, and that we should likely initiate the environmental records search process through our City contact. This will make it more likely that we will get our hands on all of the records that the City has with respect to the site as opposed to just some records that will come up through the records search process.

Udo will hopefully get back to me soon with more details on how to proceed with this request.

https://mail.google.com/mail/u/0?ui=2&ik=ab42a4e602&view=pt&search=inbox&th=13d64c5562b7e5eb
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ou une personne autorisée à le recevoir, veuillez communiquer avec le soussigné et ensuite détruire ce message.

---

Stacey Mater <smater@dillon.ca>  
Thu, Mar 14, 2013 at 1:49 PM

To: "Dore, Al" <Al.Dore@hamilton.ca>
Cc: Doug Onishi <donishi@dillon.ca>, 127119 <127119@dillon.ca>, Liana Labreche <llabreche@dillon.ca>

Hi Al,

The sooner the better, but whenever we can reasonably get our hands on it.
Do you have any idea about the typical time it takes to get this information?

-Stacey

[Quoted text hidden]

--

Stacey Mater
Dillon Consulting Limited
Suite 200 - 51 Breithaupt Street
Kitchener, Ontario, N2H 5G5
T - 519.571.9833 ext. 3136
F - 519.571.7424
SMater@dillon.ca
www.dillon.ca

Please consider the environment before printing this email

---

Dore, Al <Al.Dore@hamilton.ca>  
Thu, Mar 14, 2013 at 1:54 PM

To: Stacey Mater <smater@dillon.ca>
Cc: Doug Onishi <donishi@dillon.ca>, 127119 <127119@dillon.ca>, Liana Labreche <llabreche@dillon.ca>

Hi Stacey: Sorry I don't...but does March 29th work for you?

---

From: Stacey Mater [mailto:smater@dillon.ca]
Sent: March 14, 2013 1:50 PM

[Quoted text hidden]

[Quoted text hidden]

---

Stacey Mater <smater@dillon.ca>  
Thu, Mar 14, 2013 at 2:28 PM

To: "Dore, Al" <Al.Dore@hamilton.ca>
Cc: Doug Onishi <donishi@dillon.ca>, 127119 <127119@dillon.ca>, Liana Labreche <llabreche@dillon.ca>

Hi Al,

We were hoping to get a deliverable out by the end of March, so if a couple of days before the 29th is possible that would be ideal. If the 29th is the earliest we can get it we can work around that.

-Stacey

[Quoted text hidden]

--
Dore, Al <Al.Dore@hamilton.ca>  
To: smater@dillon.ca  

Thu, Mar 14, 2013 at 2:34 PM

Ok...thx Stacey...

From: Stacey Mater <smater@dillon.ca>  
Sent: Thursday, March 14, 2013 02:28 PM Eastern Standard Time  
To: Dore, Al  
Cc: Doug Onishi <donishi@dillon.ca>; 127119 <127119@dillon.ca>; Liana Labreche <llabreche@dillon.ca>  

[quoted text hidden]

Dore, Al <Al.Dore@hamilton.ca>  
To: smater@dillon.ca, "Ehrenberg, Udo" <Udo.Ehrenberg@hamilton.ca>  
Cc: donishi@dillon.ca, 127119@dillon.ca, llabreche@dillon.ca  

Thu, Mar 14, 2013 at 3:27 PM

Hi Udo: please find attached the municipal properties that we discussed relative to the environmental information requested below...thx

From: Stacey Mater <smater@dillon.ca>  
Sent: Wednesday, March 13, 2013 01:38 PM Eastern Standard Time  
To: Dore, Al  
Cc: Doug Onishi <donishi@dillon.ca>; 127119 <127119@dillon.ca>; Liana Labreche <llabreche@dillon.ca>  

Subject: Re: Fwd: West Harbour Piers 5 - 8 Environmental Records Request

[quoted text hidden]

Dore, Al <Al.Dore@hamilton.ca>  
To: smater@dillon.ca, "Alberton, Dave" <Dave.Alberton@hamilton.ca>  
Cc: donishi@dillon.ca, 127119@dillon.ca, llabreche@dillon.ca  

Thu, Mar 14, 2013 at 3:45 PM

Hi Dave: as discussed please see information request below...thx for your assistance on this issue.

From: Stacey Mater <smater@dillon.ca>  
Sent: Wednesday, March 13, 2013 01:38 PM Eastern Standard Time  
To: Dore, Al  
Cc: Doug Onishi <donishi@dillon.ca>; 127119 <127119@dillon.ca>; Liana Labreche <llabreche@dillon.ca>  

Subject: Re: Fwd: West Harbour Piers 5 - 8 Environmental Records Request

[quoted text hidden]

Alberton, Dave <Dave.Alberton@hamilton.ca>  
To: "Dore, Al" <Al.Dore@hamilton.ca>, smater@dillon.ca  

Thu, Mar 14, 2013 at 4:00 PM
To be able to complete this Environmental Records Request would you be able to outline the boundaries? (addresses or streets or a highlight area on a map)

Thanks

Dave Alberton
Supervisor, Environmental Monitoring Operations
Compliance & Regulations Section
Environmental Monitoring & Enforcement Unit
Hamilton Water
700 Woodward Avenue
Hamilton, Ontario L8H 6P4
Phone: (905) 546-2424 x 1090
Cell: (905) 973-0677
Fax: (905) 546-2661
Email: dave.alberton@hamilton.ca

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Hi Dave,

The areas we are interested are Piers 5 - 8 (outlined in red on the attached map).

Thanks. Please let me know if you have any other questions!

---

**Stacey Mater**  
Dillon Consulting Limited  
Suite 200 - 51 Breithaupt Street  
Kitchener, Ontario, N2H 5G5  
T - 519.571.9833 ext. 3136  
F - 519.571.7424  
SMater@dillon.ca

---

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---

**West Harbour Existing Conditions (pdf compact).pdf**  
232K

---

**Ehrenberg, Udo** <Udo.Ehrenberg@hamilton.ca>  
Thu, Mar 14, 2013 at 4:39 PM

To: "Dore, Al" <Al.Dore@hamilton.ca>, smater@dillon.ca  
Cc: donishi@dillon.ca, 127119@dillon.ca, llabreche@dillon.ca, "Brar, Pavneet" <Pavneet.Brar@hamilton.ca>

Hi Al,

I will arrange for our group to do an assembly of information to which we have access. Can you please resend the address list as I did not see the attachment?

Udo
----- Forwarded message -----  
From: Stacey Mater <smater@dillon.ca>  
Date: Wed, Mar 13, 2013 at 1:21 PM  
Subject: West Harbour Piers 5 - 8 Environmental Records Request  
To: Doug Onishi <donishi@dillon.ca>, 127119 <127119@dillon.ca>  
Cc: Liana Labreche <llabreche@dillon.ca>  

Hi Doug,

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He said that the normal records search would likely not be as exhaustive as we would need due to the complexity and sensitivity associated with the site, and that we should likely initiate the environmental records search process through our City contact. This will make it more likely that we will get our hands on all of the records that the City has with respect to the site as opposed to just some records that will come up through the records search process.

Udo will hopefully get back to me soon with more details on how to proceed with this request.

-Stacey

--

----- Forwarded message -----  
From: Stacey Mater <smater@dillon.ca>  
Date: Wed, Mar 13, 2013 at 1:21 PM  
Subject: West Harbour Piers 5 - 8 Environmental Records Request  
To: Doug Onishi <donishi@dillon.ca>, 127119 <127119@dillon.ca>  
Cc: Liana Labreche <llabreche@dillon.ca>  

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-Stacey

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---

Onishi, Doug <donishi@dillon.ca>  Thu, Mar 14, 2013 at 7:06 PM
To: Stacey Mater <smater@dillon.ca>

fyi - I was at a City meeting this afternoon. I went over to see the City water and wastewater planning engineers about the West Harbour servicing and saw Al Dore waiting outside Udo's office for him.

Al is doing a great job following up with the City staff to communicate the importance of this project and our requests.

Doug

Onishi, Doug
Dillon Consulting Limited
Suite 200 - 51 Breithaupt Street
Kitchener, Ontario, N2H 5G5
T - 519.571.9833 ext. 3107
F - 519.571.7424
M - 905.973.5982

https://mail.google.com/mail/u/0?ui=2&ik=ab42e4e602&ivg=pt&search=inbox&th=13b64c5562b7e6eb
Stacey Mater <smater@dillon.ca>  
To: Doug Onishi <donishi@dillon.ca>  

Thu, Mar 14, 2013 at 8:00 PM

That's great! I'm just about to forward him the civic addresses he needs!

Stacey Mater <smater@dillon.ca>  
To: Udo.ehrenberg@hamilton.ca, Doug Onishi <donishi@dillon.ca>, Liana Labrecque <llabrecque@dillon.ca>, 127119 <127119@dillon.ca>, Al Dore <Al.Dore@hamilton.ca>

Thu, Mar 14, 2013 at 8:03 PM

Hi Udo, the civic addresses we received from the city are summarized in the attached PDF. Please let me know if you have any questions.

-------- Forwarded message --------
From: "Stacey Mater" <smater@dillon.ca>

Piers 5 to 8 - Civic Addresses.pdf

3K

Onishi, Doug <donishi@dillon.ca>  
To: "Dore, Al" <Al.Dore@hamilton.ca>  
Cc: Stacey Mater <smater@dillon.ca>  

Fri, Mar 15, 2013 at 12:03 PM

Thanks Al.

See you on Tuesday for our utilities and HCA meeting.

Doug

On Fri, Mar 15, 2013 at 9:47 AM, Dore, Al <Al.Dore@hamilton.ca> wrote:

Hi All: As part of the site servicing studies being undertaken for the implementation of the West Harbour Recreational Plan and Pier 8 development lands in the Waterfront areas, the Consultant (Dillon) working for us (The City) requires a comprehensive records search to be undertaken as it pertains to any information regarding instructions, reports, spills, contamination or other records of environmental concern at the sites noted in the attachment above.
Please provide any documentation as it pertains to Environmental Records by March 27th 2013. I apologize for the quick turnaround time associated with this request.

Dan M...fyi...Udo and Dave Alberton are already aware of this request and have commenced their review.

Thank you for your co-operation and attention to this matter.

Hi Doug/Stacey; fyi...I spoke to Gary Moore/Gord McQuire and he indicated anything they would have is deposited in the file link provided. So what ever is in there is it...

From: Onishi, Doug [mailto:donishi@dillon.ca]
Sent: Friday, March 15, 2013 12:03 PM Eastern Standard Time
To: Dore, Al
Cc: Stacey Mater <samer@dillon.ca>
Subject: Re: FW: Re: Fwd: West Harbour Piers 5 - 8 Environmental Records Request

[Quoted text hidden]
[Quoted text hidden]

Thanks Al.
Dore, Al <Al.Dore@hamilton.ca>                              Fri, Mar 15, 2013 at 12:32 PM
To: donishi@dillon.ca
Cc: smater@dillon.ca

Also...Fire Department is looking today as well...

From: Onishi, Doug [mailto:donishi@dillon.ca]
To: Dore, Al
Cc: smater@dillon.ca <smater@dillon.ca>

[Quoted text hidden]

[Quoted text hidden]

Stacey Mater <smater@dillon.ca>                          Fri, Mar 15, 2013 at 12:33 PM
To: "Dore, Al" <Al.Dore@hamilton.ca>
Cc: Doug Onishi <donishi@dillon.ca>, Liana Labreche <llabreche@dillon.ca>

Hi Al,

Thanks for looking in to this (and for coordinating with the Fire Department). However, I didn't see a link provided?

-Stacey

[Quoted text hidden]

```
Dillon Consulting Limited
Suite 200 - 51 Breithaupt Street
Kitchener, Ontario, N2H 5G5
T - 519.571.9833 ext. 3136
F - 519.571.7424
SMater@dillon.ca
www.dillon.ca

Please consider the environment before printing this email
```

Alabert, Dave <Dave.Alberton@hamilton.ca>                  Fri, Mar 15, 2013 at 12:35 PM
To: Stacey Mater <smater@dillon.ca>
Cc: "Dore, Al" <Al.Dore@hamilton.ca>, Doug Onishi <donishi@dillon.ca>, 127119 <127119@dillon.ca>, Liana Labreche <llabreche@dillon.ca>

Stacey

Attached is the completed information request. Please note we will be mailing a hard copy to your next week

Thanks

Dave Alberton
Supervisor, Environmental Monitoring Operations
Compliance & Regulations Section
Environmental Monitoring & Enforcement Unit
Hamilton Water
700 Woodward Avenue
Hamilton, Ontario L8H 6P4  
Phone: (905) 546-2424 x 1090  
Cell: (905) 973-0677  
Fax: (905) 546-2661  
Email: dave.alberton@hamilton.ca

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From: Stacey Mater [mailto:smater@dillon.ca]  
Sent: March 14, 2013 4:04 PM  
To: Alberton, Dave  
Cc: Dore, Al; Doug Onishi; 127119; Liana Labreche

20130315122916.pdf  
64K

---

Dore, Al <Al.Dore@hamilton.ca>  
Fri, Mar 15, 2013 at 12:38 PM  
To: smater@dillon.ca  
Cc: donishi@dillon.ca, llabreche@dillon.ca

Gord McGuire indicated he deposited anything he had back a few months ago in the common folder Lawrence had set up for your access...

---

From: Stacey Mater [mailto:smater@dillon.ca]  
Sent: Friday, March 15, 2013 12:33 PM Eastern Standard Time  
To: Dore, Al  
Cc: Doug Onishi <donishi@dillon.ca>; Liana Labreche <llabreche@dillon.ca>

---

Onishi, Doug <donishi@dillon.ca>  
Fri, Mar 15, 2013 at 12:41 PM  
To: “Dore, Al” <Al.Dore@hamilton.ca>, Stacey Mater <smater@dillon.ca>

Thanks Al.

---

Please consider the environment before printing this email.
Hi Cory.

Do you recall how to access the folder that Lawrence Stasiuk / Ray Harkness have set up.

--- Forwarded message ---
From: Dore, Al <Al.Dore@hamilton.ca>
Date: Fri, Mar 15, 2013 12:38 PM
Subject: Re: FW: Re: Fwd: West Harbour Piers 5 - 8 Environmental Records Request

Thx Dave...most appreciated!

From: Alberton, Dave
Sent: Friday, March 15, 2013 12:35 PM Eastern Standard Time
To: 'Stacey Mater' <smater@dillon.ca>
Cc: Dore, Al; Doug Onishi <donishi@dillon.ca>; 127119 <127119@dillon.ca>; Liana Labreche <llabreche@dillon.ca>
Subject: RE: Fwd: West Harbour Piers 5 - 8 Environmental Records Request

Hi Stacey : fyi

From: Ehrenberg, Udo
Hi Al,

We have completed the search for environmental records to which we have access via City Archives/System. Recall there are likely environmental records to which ISWP do not have access to and a broad corporate-wide request is in order.

We have structured the attached response letter from our template which refers to fees for provision of documents. All documents that we found through our search are included in the .zip file on the S drive via the shortcut below so no follow up fees apply.

Call me if you want to discuss.

Udo

<<2013 Info Request Response, West Harbour Piers 5-8.doc>>

\{corona\world\Public Works\_Temporary Folder\temp_ALDore\Reports.zip

Hi Udo,

Please find attached the Information Request Response and relevant reports for West Harbour Piers 5-8.

I understand that there is no fee for performing the records request; however, I am not sure if the additional fees for obtaining the reports still apply. I have addressed the response letter to Al Dore and included a brief description of the reports and generic information on document request process, reproduction and shipping costs (which can be excluded based on your judgement).

Please let me know if I could be of further assistance.

Cheers,

Pavneet

Hi Pavneet,

These addresses require an Environmental Records Search. There will not be a fee as it is an internal data request for a City project.

Let's chat on Friday am.
Thanks

Udo

From: Ehrenberg, Udo
Sent: Thursday, March 14, 2013 07:07 PM
To: Brar, Pavneet
Subject: Fw: Fwd: West Harbour Piers 5 - 8 Environmental Records Request

Hi Udo: fyi...properties outlined on map

From: Dore, Al
Sent: Thursday, March 14, 2013 06:17 PM
To: Ehrenberg, Udo
Subject: Fw: Fwd: West Harbour Piers 5 - 8 Environmental Records Request

Hi Dave,

The areas we are interested are Piers 5 - 8 (outlined in red on the attached map).

Thanks. Please let me know if you have any other questions!

Stacey Mater
Dillon Consulting Limited
Suite 200 - 51 Breithaupt Street
Kitchener, Ontario, N2H 5G5
T - 519.571.9833 ext. 3136
F - 519.571.7424
SMater@dillon.ca

On Thu, Mar 14, 2013 at 4:00 PM, Alberton, Dave <Dave.Alberton@hamilton.ca> wrote:

Al

To be able to complete this Environmental Records Request would you be able to outline the boundaries? (addresses or streets or a highlight area on a map)

Thanks
Dave Alberton  
Supervisor, Environmental Monitoring Operations  
Compliance & Regulations Section  
Environmental Monitoring & Enforcement Unit  
Hamilton Water  
700 Woodward Avenue  
Hamilton, Ontario L8H 6P4  
Phone: (905) 546-2424 x 1090  
Cell: (905) 973-0677  
Fax: (905) 546-2661  
Email: dave.alberton@hamilton.ca

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From: Dore, Al  
Sent: March 14, 2013 3:46 PM  
To: 'smater@dillon.ca'; Alberton, Dave  
Cc: 'donishi@dillon.ca'; '127119@dillon.ca'; 'llabreche@dillon.ca'

Subject: Re: Fwd: West Harbour Piers 5 - 8 Environmental Records Request

Hi Dave: as discussed please see information request below...thx for your assistance on this issue.

From: Stacey Mater [mailto:smater@dillon.ca]  
Sent: Wednesday, March 13, 2013 01:38 PM Eastern Standard Time  
To: Dore, Al  
Cc: Doug Onishi <donishi@dillon.ca>; 127119 <127119@dillon.ca>; Liana Labreche <llabreche@dillon.ca>

Subject: Re: Fwd: West Harbour Piers 5 - 8 Environmental Records Request

Hi Al,

Thanks for your assistance with the records request. I should also mention that I was directed to three different people from the City Clerk's office to obtain records, and I would expect that the process to get the information in a timely matter would be the same. Here are the people and departments I was told to contact:

Udo Ehrenberg - Manager, Environment & Sustainable Infrastructure division, Public Works department (I have been corresponding with him)

Cari Vanderperk, Superintendent - Environmental Monitoring & Enforcement, Environment & Sustainable Infrastructure Division- Public Works (I couriered a written request yesterday)

Frank Biancucci – Fire Prevention Chief, Fire Prevention Bureau, Emergency Services division, Hamilton Emergency Services department

We basically need any information regarding instructions, reports, spills, contamination, or other records of environmental concern at the site.

Ray Harkness provided civic addresses for the site (if these are required for the records search) and I have attached them here.
If you need to contact me today I am currently in our Oakville office at 905-901-2912 ext. 3407

Sincerely,

Stacey Mater
Dillon Consulting Limited
Suite 200 - 51 Breithaupt Street
Kitchener, Ontario, N2H 5G5
T - 519.571.9833 ext. 3136
F - 519.571.7424
SMater@dillon.ca
www.dillon.ca

Please consider the environment before printing this email

On Wed, Mar 13, 2013 at 1:29 PM, Dore, Al <Al.Dore@hamilton.ca> wrote:

Sure....I'll speak to Udo and get back to you..

From: Onishi, Doug [mailto:donishi@dillon.ca]
To: Dore, Al
Cc: Stacey Mater <smater@dillon.ca>; 127119 <127119@dillon.ca>
Subject: Fwd: West Harbour Piers 5 - 8 Environmental Records Request

Hello Al,

Stacey Mater has been advised by Udo that we will get a more complete records search if someone at the City requests the information.

She is going to hear back from Udo on how to proceed with the request.

Could you assist with making the request on behalf of the City for us.

Stacey, could you send Al the outline of what we need so he can assist us.

Thanks Al.

Doug

Doug Onishi
Associate
Dillon Consulting Limited
Suite 200 - 51 Breithaupt Street
Kitchener, Ontario, N2H 5G5
T - 519.571.9833 ext. 3107
F - 519.571.7424
M - 905.973.5982
DONishi@dillon.ca
www.dillon.ca

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-------- Forwarded message --------
From: Stacey Mater <smater@dillon.ca>
Date: Wed, Mar 13, 2013 at 1:21 PM
Subject: West Harbour Piers 5 - 8 Environmental Records Request
To: Doug Onishi <donishi@dillon.ca>, 127119 <127119@dillon.ca>
Cc: Liana Labreche <llabreche@dillon.ca>

Hi Doug,

I just got a message from Udo (Udo Ehrenberg - Manager, Environment & Sustainable Infrastructure division) regarding environmental records for the West Harbour project.

He said that the normal records search would likely not be as exhaustive as we would need due to the complexity and sensitivity associated with the site, and that we should likely initiate the environmental records search process through our City contact. This will make it more likely that we will get our hands on all of the records that the City has with respect to the site as opposed to just some records that will come up through the records search process.

Udo will hopefully get back to me soon with more details on how to proceed with this request.

-Stacey

--

Stacey Mater
Dillon Consulting Limited
Suite 200 - 51 Breithaupt Street
Kitchener, Ontario, N2H 5G5
T - 519.571.9833 ext. 3136
F - 519.571.7424
SMater@dillon.ca
www.dillon.ca

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Dore, Al <Al.Dore@hamilton.ca>  
To: smater@dillon.ca, donishi@dillon.ca  
Cc: "Stasiuk, Lawrence" <Lawrence.Stasiuk@hamilton.ca>  

Fri, Mar 15, 2013 at 2:13 PM

Fyi...from Fire.

From: Verbeek, John  
Sent: March 15, 2013 2:05 PM  
To: Dore, Al; Biancucci, Frank  
Subject: RE: Fwd: West Harbour Piers 5 - 8 Environmental Records Request

At: I have reviewed all our files for Piers 5, 6, 7 and 8 and found no reports involving environmental concerns at any of the properties in the past 13 years. In addition, I have reviewed emergency responses by the Hamilton Fire Department to each of these properties over the past 6 years and we have no responses that would indicate an environmental concern being identified. I trust this is the information you require and if you have any questions please give me a call at ext. 7763.

-----Original Message-----  
From: Dore, Al  
Sent: March 14, 2013 18:17  
To: Verbeek, John; Biancucci, Frank  
Subject: Fw: Fwd: West Harbour Piers 5 - 8 Environmental Records Request

Hi John/Frank: please see attached map below...the lands are all owned by the CoH...and leased back to the HPA...thx
Hi Dave,

The areas we are interested are Piers 5 - 8 (outlined in red on the attached map).

Thanks. Please let me know if you have any other questions!

Stacey Mater  
Dillon Consulting Limited  
Suite 200 - 51 Breithaupt Street  
Kitchener, Ontario, N2H 5G5  
T - 519.571.9833 ext. 3136  
F - 519.571.7424  
SMater@dillon.ca

On Thu, Mar 14, 2013 at 4:00 PM, Alberton, Dave <Dave.Alberton@hamilton.ca> wrote:

Al

To be able to complete this Environmental Records Request would you be able to outline the boundaries? (addresses or streets or a highlight area on a map)

Thanks

Dave Alberton  
Supervisor, Environmental Monitoring Operations  
Compliance & Regulations Section  
Environmental Monitoring & Enforcement Unit  
Hamilton Water  
700 Woodward Avenue  
Hamilton, Ontario L8H 6P4  
Phone: (905) 546-2424 x 1090  
Cell: (905) 973-0677  
Fax: (905) 546-2661  
Email: dave.alberton@hamilton.ca

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Onishi, Doug <donishi@dillon.ca>
To: "Dore, Al" <Al.Dore@hamilton.ca>
Cc: smater@dillon.ca, "Stasiuk, Lawrence" <Lawrence.Stasiuk@hamilton.ca>

Thanks Al, great work getting the fast turn around on this.

Dore, Al <Al.Dore@hamilton.ca>
To: "Onishi, Doug" <donishi@dillon.ca>
Cc: smater@dillon.ca, "Stasiuk, Lawrence" <Lawrence.Stasiuk@hamilton.ca>

Glad to assist...

From: Onishi, Doug [mailto:donishi@dillon.ca]
Sent: March 15, 2013 2:18 PM
To: Dore, Al
Cc: smater@dillon.ca; Stasiuk, Lawrence
Subject: Re: FW: Fwd: West Harbour Piers 5 - 8 Environmental Records Request

Thanks Al, great work getting the fast turn around on this.
Error! Filename not specified.

Stacey Mater
Dillon Consulting Limited
Suite 200 - 51 Breithaupt Street
Kitchener, Ontario, N2H 5G5
T - 519.571.9833 ext. 3136
F - 519.571.7424
SMater@dillon.ca
November 11, 2014

Dillon Consulting
51 Breithaupt St
Suite 200
KITCHENER ON N2H 5G5

Attn: Renee Recoskie,

RE: Information Request – Bayview Park- 52 Burlington Street West, Hamilton, Ontario

Dear Renee Recoskie,

In response to your request for information of October 22, 2014 regarding the above-noted property, we wish to inform you:

a) Our files, which are only accurate from 1991 to the present, indicate no record of violations of the City of Hamilton Sewer Use By-law 04-150, or previous spill events originating from the above-noted site.

b) Our records of former municipal landfill sites, which are only accurate from 1974 to the present, do not list the above-noted property as a former landfill site.

In view of the limited information available to us, if the interested party wishes to completely satisfy themselves that the site was not used for the disposal of waste, we recommend that they utilize the services of a licensed and qualified geotechnical agency to carry out site testing to confirm existing subterranean conditions.

For further information on other issues, which are beyond the jurisdiction of the City of Hamilton, we suggest your firm contact:

Ministry of the Environment
West Central Region, Hamilton Regional Office
119 King Street West, 12th Floor
Hamilton ON L8P 4Y7
(905) 521-7640

Should you have any questions or require clarification regarding this matter, please contact me in writing.

Cari Vanderperk
Superintendent, Environmental Monitoring & Enforcement
Compliance & Regulations Section

AR/CV
cc: R. Conley, Manager of Recycling and Waste Disposal
Hi Cari,

I am requesting information related to spills and/or violations of Hamilton’s Sewer Use By-Law for Bayview Park (52 Burlington Street West, PIN 171540017). This is a project for the City of Hamilton and Hamilton Waterfront Trust (Werner Plessl at Hamilton Waterfront Trust can confirm this) and we are under the impression that regular search fees will not apply.

Can you please inform me of the time expected to receive the results of this request? If you have any questions please contact me at 416-229-4647 (x. 2342) or via e-mail at RRecoskie@dillon.ca
MEMO

TO: Cari Vanderperk, Superintendent, Environmental Monitoring & Enforcement

FROM: Renee Recoskie

DATE: 17 November, 2014

SUBJECT: Record Request Payment – Bayview Park

OUR FILE: 14-1137

Please find enclosed a cheque in the amount of $138.90 as payment for our record request related to Bayview Park (52 Burlington Street West).

Please forward records along to me by email, mail or fax:

Renee Recoskie, B.Sc.
Dillon Consulting Limited
235 Yorkland Blvd Suite 800
Toronto, Ontario, M2J 4Y8
T - 416.229.4647 ext. 2342
M - 647.406.6420
F - 416.229.4692
RRecoskie@dillon.ca
www.dillon.ca
- Left message in general mailbox of MNR Lake Ontario Management Unit

- Jim Bowlby returned my call. MNR does not maintain environmental spill or incident records. It is not within their mandate. Ontario Ministry of the Environment is responsible for environmental records.

- Jim indicated that the Lake Ontario Management Unit Fisheries records annual report could be accessed online and sent an email (attached) with the link. After a brief review of 2012 data, it was determined that this is not directly within the scope of our records review.

Liana Labreche
Request for Environment Records
2 messages

Labreche, Liana <llabreche@dillon.ca>  
To: rick.kirluk@dfo-mpo.gc.ca  
Cc: Daniel Knee <dknee@dillon.ca>  

Mon, Mar 25, 2013 at 1:36 PM

Good afternoon Rick,

I received your name from my colleague Daniel Knee in Dillon's Kitchener office.

We are doing an environmental records review for Piers 5-8 in the City of Hamilton. Daniel thought you might be able to point us in the right direction with respect to obtaining DFO environmental records (if any) for the site.

We would like to know if the Department of Fisheries and Oceans keeps records with respect to environmental spills, incidents, infractions, or other environmental contamination. I have a list of civic addresses within the study area that we are interested in, as well as a figure showing the outline of our study area.

Can you please let me know who I should contact within DFO for this information if it is available? Please feel free to contact me if you have any questions regarding this request.

Sincerely,
Liana

---

Labreche, Liana  
Associate  
Dillon Consulting Limited  
Suite 200 - 51 Breithaupt Street  
Kitchener, Ontario, N2H 5G5  
T - 519.571.9833 ext. 3114  
F - 519.571.7424  
M - 519.502.3169  
llabreche@dillon.ca  
www.dillon.ca

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---

Kirluk, Rick <Rick.Kirluk@dfo-mpo.gc.ca>  
To: "Labreche, Liana" <llabreche@dillon.ca>  
Cc: Daniel Knee <dknee@dillon.ca>  

Tue, Mar 26, 2013 at 8:54 AM

Hi Liana,

I am very familiar with Piers 5-8 in Hamilton Harbour.

We would not have such records you have described – it would be best to contact the provincial Ministry of the Environment or the federal dept of Environment Canada – Pollution Prevention branch.
I do not have contacts for those agencies.

cheers

Rick Kiriluk

Ontario - Great Lakes Area / Secteur de l'Ontario et des Grands Lacs
Burlington District Office / Bureau de district de Burlington
Fisheries & Oceans Canada, 3027 Harvester Rd., Unit 304, Burlington, ON L7R 3G7
Pêches et Océans Canada, 3027 chemin Harvester, suite 304, Burlington, ON L7R 3G7
Government of Canada/Gouvernement du Canada
Ph/Tél. (905) 639-6378 Fax: (905) 639-3549
rick.kiriluk@dfo-mpo.gc.ca

From: Labreche, Liana [mailto:llabreche@dillon.ca]
Sent: March 25, 2013 1:37 PM
To: Kiriluk, Rick
Cc: Daniel Knee
Subject: Request for Environment Records

Good afternoon Rick,

I received your name from my colleague Daniel Knee in Dillon's Kitchener office.

We are doing an environmental records review for Piers 5-8 in the City of Hamilton. Daniel thought you might be able to point us in the right direction with respect to obtaining DFO environmental records (if any) for the site.

We would like to know if the Department of Fisheries and Oceans keeps records with respect to environmental spills, incidents, infractions, or other environmental contamination. I have a list of civic addresses within the study area that we are interested in, as well as a figure showing the outline of our study area.

Can you please let me know who I should contact within DFO for this information if it is available? Please feel free to contact me if you have any questions regarding this request.

Sincerely,

Liana
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March 25, 2013

Hamilton Conservation Authority
838 Mineral Springs Road
P.O. Box 81067
Ancaster, ON
L9G 4X1

Attention: Mr. Darren Kenny
Watershed Officer

Subject: Request for Natural Heritage and Real Estate Information
Piers 5-8, Hamilton, ON

Dear Mr. Kenny:

Dillon Consulting Limited (Dillon) is conducting an environmental records review for Piers 5 to 8 in Hamilton, Ontario. We would like to request information pertaining to natural heritage areas and/or real estate regulatory information related to the site. Please find attached a figure showing the outline of the study area, along with a list of the civic addresses that are included in the study area.

Please also find enclosed a cheque in the amount of $200 for the required search fee. If you have any questions regarding this request, or if you require additional information with respect to the site, please do not hesitate to contact me.

Sincerely,

DILLON CONSULTING LIMITED

Liana Labreche, B.Sc.
Associate

Attach.

Our File: 12-7119-3000
### Piers 5 - 8, Hamilton, ON Civic Addresses

<table>
<thead>
<tr>
<th>#</th>
<th>Address</th>
<th>Alternate Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>50 Leander Drive</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>607 James St North</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>1, 17 Guise St West</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>17, 47, 57 Discovery Drive</td>
<td>17, 47, 57 Guise Street East</td>
</tr>
<tr>
<td>5</td>
<td>9, 31, 33, 65 Guise St E</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>595, 659, 695 Catharine St N</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>555 Bay Street North</td>
<td></td>
</tr>
</tbody>
</table>
BY FAX & MAIL

April 5, 2013

Liana Labreche
Dillon Consulting
51 Breithaupt Street, Suite 200
Kitchener, ON N2H 5G5

Dear Ms. Labreche:

RE: Request for Natural Heritage and Real Estate Information
Piers 5-8, Hamilton, Ontario

Staff of the Hamilton Conservation Authority (HCA) has reviewed the above-noted enquiry regarding Piers 5-8 and offers the following in this regard.

A portion of the subject properties are affected by Ontario Regulation 161/06 (HCA's Regulation of Development, Interference with Wetlands and Alterations to Shorelines and Watercourses) made under the Conservation Authorities Act, R.S.O. 1990. These areas are affected as they are within the flood hazard of the Hamilton Harbour. See map attached showing the HCA regulated area in yellow highlight. Please be advised that the extent of the regulated area is approximate as the wave uprush elevations vary throughout the various sections of the harbour in relation to exposure to prevailing winds.

A portion of the lands within the study area are designated as part of the Hamilton Harbour Environmentally Significant Area (ESA). Based on current City of Hamilton mapping, the ESA is wholly within the Pier 5 lands. As Hamilton Harbour is designated as a key hydrologic feature of the natural heritage system (core area) in the City of Hamilton Urban Official Plan, any future development of the properties within Piers 5-8 will likely require the completion of an environmental impact study.

If you have any questions, please do not hesitate to contact the undersigned at ext. 131.

Yours truly,

Darren Kenny
Watershed Officer

Encl. regulated area map
November 4, 2014

Hamilton Conservation Authority
838 Mineral Springs Road
P.O. Box 81067
Ancaster, ON
L9G 4X1

Attention: Mr. Darren Kenny
Watershed Officer

Subject: Request for Natural Heritage and Real Estate Information
Bayview Park, Hamilton, ON

Dear Mr. Kenny:

Dillon Consulting Limited (Dillon) is conducting an environmental records review for
Bayview Park (52 Burlington Street West, PIN 171540017) in Hamilton, Ontario. We
would like to request information pertaining to natural heritage areas and/or real
estate regulatory information related to the site.

Please find enclosed a cheque in the amount of $200 for the required search fee. If
you have any questions regarding this request, or if you require additional
information with respect to the site, please do not hesitate to contact me.

Sincerely,

DILLON CONSULTING LIMITED

Renee Recoskie, B.Sc.
Environmental Scientist

Attach.
Our File: 14-1137
BY MAIL

November 10, 2014

Renee Recoskie
Dillon Consulting Ltd.
235 Yorkland Blvd., Suite 800
Toronto, ON M2J 4Y8

Dear Ms. Recoskie:

RE: PROPERTY ENQUIRY
Bayview Park – 52 Burlington Street West, Hamilton, Ontario

Staff of the Hamilton Conservation Authority (HCA) has reviewed the above-noted enquiry and offers the following in this regard.

The subject property is not affected by Ontario Regulation 161/06 (HCA’s Regulation of Development, Interference with Wetlands and Alterations to Shorelines and Watercourses) made under the Conservation Authorities Act, R.S.O. 1990. Therefore, written permission is not required from the HCA for development of the property.

There are no directives, orders or breaches of our regulation against this property.

There are no natural heritage or natural hazard features on the subject property. The Hamilton Harbour Environmentally Significant Area (Official Plan No. 48) extends to within about 20 metres of the parcel to the north.

If you have any questions, please do not hesitate to contact the undersigned at ext. 131.

Yours truly,

Darren Kenny
Watershed Officer
Hi Stacey,

Please find attached geoenviro and geotech reports. The zip file is quite large (9 MB), thus if you could please confirm receipt of the files, it would be greatly appreciated.

Regards,

Steve Parker

Design Technologist
Hamilton Port Authority
605 James Street North
Hamilton, ON L8L 1K1
P: (905)525-4330 Ext. 209
F: (905)525-7258
C: (905)928-8806
spark@hamiltonport.ca
www.hamiltonport.ca
Hi Steve,
Can you please assemble a set of the geotechnical and geoenvironmental reports for Pier 5 through 8 for Dillon?

Please let Marilyn review the geoenvironmental reports and me review the geotech before they get sent.

Thanks,
JW

Jonathan Wetselaar
Design & Construction Manager
Hamilton Port Authority
605 James Street North
Hamilton, ON L8L 1K1

Ph: 905 525-4330
F: 905 525-7258
C: 905 515-4193
jwetselaar@hamiltonport.ca
www.hamiltonport.ca

---

From: Bill Fitzgerald
Sent: Thursday, March 14, 2013 10:33 AM Eastern Standard Time
To: Marilyn Baxter; Jonathan Wetselaar
Subject: FW: Environmental & geotechnical records for Piers 5 - 8

Marilyn & Jonathan, please see the following inquiry – can you please compile the requested information for transfer to Dillon? Thanks.

bf

---

From: Stacey Mater [mailto:smater@dillon.ca]
Sent: Wednesday, March 13, 2013 1:12 PM
To: Bill Fitzgerald
Subject: Re: Environmental & geotechnical records for Piers 5 - 8

Good afternoon,

I am just following up on my previous inquiry for environmental and geotechnical records in the area of Piers 5 - 8 in Hamilton.

I was just wondering what type of information is required to obtain these records (civic addresses, PINs, legal...
description) etc., and how I go about obtaining this information. I understand you've been working with Justin Doiron at Dillon to obtain plans for the same area.

-Stacey

On Mon, Mar 11, 2013 at 11:28 AM, Stacey Mater <smater@dillon.ca> wrote:

Good morning,

We are conducting an environmental records review for Piers 5 - 8. I was referred to you (by Dough Onishi at Dillon) as the person to ask about obtaining any environmental/geotechnical reports/records available for the area.

Could you let me know what type of information you would require for this request (i.e. site plans, civic addresses, PIN numbers, etc..)?

--

Stacey Mater
Dillon Consulting Limited
Suite 200 - 51 Breithaupt Street
Kitchener, Ontario, N2H 5G5
T - 519.571.9833 ext. 3136
F - 519.571.7424
SMater@dillon.ca
www.dillon.ca

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Stacey Mater <smater@dillon.ca>  Tue, Mar 19, 2013 at 11:28 AM
To: Steve Parker <sparker@hamiltonport.ca>

Hi Steve,

I have received these (5 reports in total).
Thanks for sending these through.

-Stacey
[Quoted text hidden]

Stacey Mater
Dillon Consulting Limited
Suite 200 - 51 Breithaupt Street
Kitchener, Ontario, N2H 5G5
T - 519.571.9833 ext. 3136
F - 519.571.7424
SMater@dillon.ca
www.dillon.ca

Stacey Mater <smater@dillon.ca>  Mon, Apr 1, 2013 at 9:49 AM
To: Steve Parker <sparker@hamiltonport.ca>

Hi Steve,

I hope you had a great long weekend!
We were just taking a look through some of the Pier 8 reports you sent through previously and noticed that in Golder’s Preliminary Environmental Site Assessment and Geotechnical Investigation (June, 2000), every other page was missing (i.e. the back sides of double sided pages likely were not copied).

Would you be able to have the full report sent through?
Hi Stacey,

Sorry for the delay in responding. I have been out of the office until today. I will forward you a rescanned copy of the report first thing tomorrow morning. Once again, sorry for the error.

Regards,

Steve Parker

Design Technologist

Hamilton Port Authority

605 James Street North

Hamilton, ON L8L 1K1

P: (905)525-4330 Ext. 209
F: (905)525-7258
C: (905)928-8806

sparker@hamiltonport.ca
www.hamiltonport.ca
From: Stacey Mater [mailto:smater@dillon.ca]
Sent: Monday, April 01, 2013 9:49 AM
To: Steve Parker

[Quoted text hidden]

[Quoted text hidden]

[Quoted text hidden]

[Quoted text hidden]

[Quoted text hidden]

Error!
Filename not specified.

Stacey Mater
Dillon Consulting Limited
Suite 200 - 51 Breitaupt Street
Kitchener, Ontario, N2H 5G5
T - 519.571.9833 ext. 3136
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---

Stacey Mater  
Dillon Consulting Limited  
Suite 200 - 51 Breithaupt Street  
Kitchener, Ontario, N2H 5G5  
T - 519.571.9833 ext. 3136  
F - 519.571.7424  
SMater@dillon.ca  
www.dillon.ca

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Steve Parker <sparker@hamiltonport.ca>  
To: Stacey Mater <smater@dillon.ca>  

Hi Stacey,
Just a further update to my note below, I am still attempting to obtain a copy of the report mentioned below. As the report was not directly addressed to Hamilton Port Authority, it has taken a couple extra days to acquire. As soon as I have a copy, I will promptly forward to you.

Thanks for your patience.

Regards,

Steve Parker

Design Technologist
Hamilton Port Authority
605 James Street North
Hamilton, ON L8L 1K1
P: (905)525-4330 Ext. 209
F: (905)525-7258
C: (905)928-8806
sparker@hamiltonport.ca
www.hamiltonport.ca

From: Steve Parker
Sent: Wednesday, April 03, 2013 4:34 PM
To: 'Stacey Mater'
Subject: RE: Environmental & geotechnical records for Piers 5 - 8

Hi Stacey,

Sorry for the delay in responding. I have been out of the office until today. I will forward you a rescanned copy of the report first thing tomorrow morning. Once again, sorry for the error.

Regards,
Steve Parker
Design Technologist
Hamilton Port Authority
605 James Street North
Hamilton, ON L8L 1K1
P: (905)525-4330 Ext. 209
F: (905)525-7258
C: (905)928-8806
sparker@hamiltonport.ca
www.hamiltonport.ca

From: Stacey Mater [mailto:smater@dillon.ca]
Sent: Monday, April 01, 2013 9:49 AM
To: Steve Parker

[Quoted text hidden]
[Quoted text hidden]

[Quoted text hidden]
[Quoted text hidden]

[Quoted text hidden]
[Quoted text hidden]

--

Stacey Mater
Dillon Consulting Limited
Suite 200 - 51 Breithaupt Street
Kitchener, Ontario, N2H 5G5
T - 519.571.9833 ext. 3136
F - 519.571.7424
SMater@dillon.ca
www.dillon.ca

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Stacey Mater <smater@dillon.ca>                      Mon, Apr 8, 2013 at 1:17 PM
To: Steve Parker <sparker@hamiltonport.ca>

Thanks, Steve!

-Stacey

[Quoted text hidden]

Please consider the environment before printing this email
Request for Information on properties in the City of Hamilton

10 messages

Stacey Mater <smater@dillon.ca>  
To: publicinformationservices@tssa.org  
Tue, Mar 12, 2013 at 10:24 AM

Good morning,

I am looking for any information in your database on the following properties in the City of Hamilton (all located within Piers 5 - 8). Please be advised that several addresses seem to have alternate addresses.

555 Bay St N  
595, 659 and 695 Catharine St N  
17, 47 Discovery Drive  
57 Discovery Drive (or 57 Guise St E)  
1 Guise St W  
9, 65 Guise St E  
17 Guise St (alternately 17 Discovery Drive)  
47 and 57 Guise St E (alternately 47 and 57 Discovery Drive)  
607 James St N  
50 Leander Drive

If there are records associated with these properties, please provide me with a quote to obtain the records. A map of the area and addresses can be provided upon request.

Sincerely,

Stacey

--

Stacey Mater  
Dillon Consulting Limited  
Suite 200 - 51 Breithaupt Street  
Kitchener, Ontario, N2H 5G5  
T - 519.571.9833 ext. 3136  
F - 519.571.7424  
SMater@dillon.ca  
www.dillon.ca

Please consider the environment before printing this email

---

Public Information Services <publicinformationservices@tssa.org>  
To: Stacey Mater <smater@dillon.ca>  
Tue, Mar 12, 2013 at 11:14 AM

Hi Stacey:

Thank you for your inquiry.

I have searched the below noted address (addresses) and I have located the following record.
1 Guise Street W., Hamilton has record of 3 active underground tanks; and

65 Guise Street W., Hamilton has record of 4 active underground tanks.

For a more detailed report including underground fuel storage tank details and copies of all inspection reports, please submit your request in writing to Public Information Services via e-mail (publicinformationservices@tssa.org) or through mail along with a fee of $56.50 (including HST) per location. The fee is payable with credit card (Visa or MasterCard) or with a cheque made payable to TSSA.

Thank you and have a great day!

Prem
Public Information Services

"Putting Public Safety First"

Technical Standards and Safety Authority
14th Floor, Centre Tower
3300 Bloor Street West
Toronto, ON M8X 2X4

Toll-Free: 1-877-682-8772
Email: publicinformationservices@tssa.org
Web Site: www.tssa.org

[Quoted text hidden]

[Quoted text hidden]

This message is directed in confidence solely to the person(s) named above and may contain privileged, confidential or private information which is not to be disclosed. If you are not the addressee or an authorized representative thereof, please contact the undersigned and then destroy this message.

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This electronic message and any attached documents are intended only for the named recipients. This communication from the Technical Standards and Safety Authority may contain information that is privileged, confidential or otherwise protected from disclosure and it must not be disclosed, copied, forwarded or distributed without authorization. If you have received this message in error, please notify the sender immediately and delete the original message.

Stacey Mater <smater@dillon.ca> Tue, Mar 12, 2013 at 11:30 AM
To: Public Information Services <publicinformationservices@tssa.org>

Hi Prem,
I would like to proceed with this request and will pay by credit card (Mastercard). How can I go about doing that? You can reach me at the information below:

Stacey Mater
Dillon Consulting Limited
Suite 200 - 51 Breithaupt Street
Kitchener, Ontario, N2H 5G5
T: 519.571.9833 ext. 3136
F: 519.571.7424
SMater@dillon.ca
www.dillon.ca

[Quoted text hidden]

--
Please consider the environment before printing this email

Public Information Services <publicinformationservices@tssa.org> Tue, Mar 12, 2013 at 1:17 PM
To: Stacey Mater <smater@dillon.ca>

Hi Stacey,

Thank you for your reply. The total fee for this request is $113.00 (including HST) for those 2 sites.

I've attached a credit card payment form, you can fill it out and email/fax it back to us and we will process your request as soon as possible.

Regards,
Sarah Q

[Quoted text hidden]

creditcard.docm
20K

Stacey Mater <smater@dillon.ca> Tue, Mar 12, 2013 at 1:47 PM
To: Public Information Services <publicinformationservices@tssa.org>

Hi Sarah,

I've attached my information.

-Stacey

[Quoted text hidden]

127119 - TSSA P1ESA Request S Mater.pdf
40K

Public Information Services <publicinformationservices@tssa.org> Tue, Mar 12, 2013 at 1:58 PM
To: Stacey Mater <smater@dillon.ca>

Hi Stacey,
Thank you for sending the payment information.
Just wanted to confirm with you that one of the addresses in your request is "65 GUise ST W, HAMILTON"
However, in your original preliminary search request, you had indicated "65 GUise ST E, HAMILTON"

Please advise if you still want the records for "65 GUise ST W, HAMILTON"

Regards,
Sarah Q

Stacey Mater <smater@dillon.ca>
To: Public Information Services <publicinformationservices@tssa.org>
Cc: Liana Labreche <llabreche@dillon.ca>

We'd like the records for anything in the area. My map and records from the City of Hamilton indicate the address
as Guise St E. However, Guise Street is contained entirely within our study area, so the record will be of use.
Please proceed.

-Stacey

Stacey Mater <smater@dillon.ca>
To: Public Information Services <publicinformationservices@tssa.org>
Cc: Liana Labreche <llabreche@dillon.ca>

Hi Sarah,

I am just following up on the request discussed in our previous correspondence. 
When can I expect to receive this information?

-Stacey

Public Information Services <publicinformationservices@tssa.org>
To: Stacey Mater <smater@dillon.ca>

Hi Stacey,

Thank you for your follow-up email.
The documents were mailed out to you last Wednesday, to the address in your email signature.

Thank you and have a great day!

Sarah Quibell
Public Information Services

"Putting Public Safety First"

Technical Standards and Safety Authority
14th Floor, Centre Tower
3300 Bloor Street West
Toronto, ON M8X 2X4

Toll-Free: 1-877-682-8772
Thanks! I did receive them yesterday (shortly after I sent you the e-mail!)

-Stacey
Administration and Customer Services
13 March 2013
File No: FS 41615

Stacey Mater
DILLON CONSULTING LIMITED
51 Breithaupt Street
Suite 200
KITCHENER, ON N2H 5G5

Dear Madam:


This is with reference to your request and fee of $50.00 + HST, for information on the above location.

Enclosed are computerised screen prints showing an active marina along with equipment details showing underground fuel storage tank details. Copies of inspection reports are also enclosed.

After a search of our files, TSSA has no record of any further outstanding instructions, incident reports, fuel oil spills, or contamination records respecting the above-mentioned property.

This is all the information the Fuels Safety Division has at this time regarding the above address.

*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.*

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

Yours truly,

[Signature]
Prem Lal
Coordinator Public Information Services
Installed Base: Item Instance General Attributes

Item Instances

General
Additional Attributes
Assets
Party Relationships

Owner
Parties
Accounts
Contacts
Summary
Pricing
Counters
Contracts
Notes
Transactions
Service Requests
Repair Orders
History
Operating Units
Configuration

Item Instance Details

Item Instance: 9496590
Item: FS MARINA
Item Description: FS Marina

General Attributes

Organization Name TSSA Item Master
Last Version Label 1
Revision

System

Item Instance Type
Operational Status Not Used
Status Active
Quantity 1
Start Date 02-JAN-1989
Shipped On Date
End Date
Return By Date
Actual Return Date

* Indicates required field.

Time format is HH24:MM
Note: You do not have permission to make updates in this page.

☑ Creation
Completed

Owner
Party Type Party
Party Name: HAMILTON PORT AUTHORITY
Account Number: 79975

Party Number: 176559
Account Name: HAMILTON PORT AUTHORITY

Current Location

* Type Party Site
Party Name: HAMILTON PORT

Party Number: 176559

Site Number: 178765

Address
1 GUISE ST, @ THE FOOT OF JAMES ST N
HAMILTON, L8L 8C5, CA

Installed At
Installed Date 02-JAN-1989
Installed Time 0:00

Change in installed date does not change contract date.

Order
Sales Order Number
Sales Order Date
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<thead>
<tr>
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<th>Agreement Name</th>
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<tr>
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<tr>
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<tr>
<td>☑ IB Trackable</td>
<td></td>
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<tr>
<td>☑ Sellable</td>
<td></td>
<td>☑ Inventory Trackable</td>
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<td></td>
<td>☑ Shippable</td>
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<td><strong>Item Views</strong></td>
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<tr>
<td>☐ Merchant</td>
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<td>☑ Customer</td>
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<td><strong>Descriptive Flexfields</strong></td>
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<td>Context Value</td>
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<tr>
<td>Facility Type 2</td>
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<td></td>
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<tr>
<td>Facility Type 3</td>
<td></td>
<td></td>
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<tr>
<td>Total Capacity - Liquid Fuel Tanks (L)</td>
<td>49500</td>
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</tr>
<tr>
<td>Total Capacity - Propane Tank s (USWG)</td>
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<tr>
<td>* Previous Facility Type</td>
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Item Instances | Home | Profile | Sign Out | Help |

Copyright 2006, Oracle Corporation. All rights reserved.
## Installed Base: Contracts

### Contracts

<table>
<thead>
<tr>
<th>Contract Number</th>
<th>Coverage Name</th>
<th>Coverage Description</th>
<th>Service Name</th>
<th>Service Description</th>
<th>Warranty</th>
<th>Modifier Number</th>
<th>Status</th>
<th>Start Date</th>
<th>End Date</th>
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<td>Fuels Safety</td>
<td>Licence Facility</td>
<td>FS MARINA LICENCE</td>
<td>Fuels Safety Licence - Marina</td>
<td>N</td>
<td>17</td>
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<td>Fuels Safety</td>
<td>Licence Facility</td>
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<td>Fuels Safety Pro-rated Inspection</td>
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<td>FS PRO INSPECTION</td>
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**Item Instance:** 9496590  
**Item:** FS MARINA  
**Item Description:** FS Marina

https://questprod.oracleoutsourcing.com/OA_HTML/csiContractsMain.jsp  
3/13/2013
Installed Base

Item Instance | Counters | Mass Update |
---|---|---|
Item Instances | Systems | Transactions |
Item Instance: Item Instances > Item Instance Search >
View: Item Instance: 10777246

Item | FS LIQUID FUEL TANK |
---|---|
Item Description | FS Liquid Fuel Tank |
System | HAMILTON PORT AUTHORITY |
Account Number | 79975 |

General | Location | Associations | Configuration | Counters | Notes |
---|---|---|---|---|---|
External Reference | TSSA Item Master |
Organization | Last Version Label |
Revision | 1 |
Instance Name | 28-May-1992 00:00:00 |
Quantity | Active |
UOM | 28-May-1992 00:00:00 |
Item Instance Type | Each |
Item Condition | Expiration Date |
Accounting Classification | Shipped On Date |
Operational Status Code | Return By Date |
Customer Product | Actual Return Date |
Not Used |

Hide Instance Flex Fields
Gasoline
Fuel Type1
Fuel Type2
Fuel Type3
Capacity (L)
Tank Material
Tank Type
FS Corrosion Protection
Overfill Protection Type
Installation Year
ULC Standard
Manufacturer
Model
Serial Number
Description 2009VBS

Show Additional Attributes
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<tr>
<th>Item Instance Details</th>
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<th><strong>Counters</strong></th>
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<td><strong>Item Instances</strong></td>
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<td><strong>Transactions</strong></td>
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<td>Item Description</td>
<td>FS Liquid Fuel Tank</td>
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<td>UOM</td>
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<th>Configuration Details</th>
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<td>Customer Product</td>
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<table>
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<tr>
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<tbody>
<tr>
<td>Fuel Type1</td>
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<td>Fuel Type2</td>
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<td>Fuel Type3</td>
</tr>
<tr>
<td>Capacity (L)</td>
</tr>
<tr>
<td>Tank Material</td>
</tr>
<tr>
<td>Tank Type</td>
</tr>
<tr>
<td>FS Corrosion Protection</td>
</tr>
</tbody>
</table>

| Overfill Protection Type | 1988 |
| Install Year | |

| ULC Standard | |
| Manufacturer | |
| Model | |
| Serial Number Description | 2009VBS |

<table>
<thead>
<tr>
<th>Show Additional Attributes</th>
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Return to Instance Search
### Item Instance Details

**Installed Base**

<table>
<thead>
<tr>
<th>Item</th>
<th>FS LIQUID FUEL TANK</th>
</tr>
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<tbody>
<tr>
<td>Item Description</td>
<td>FS Liquid Fuel Tank</td>
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<tr>
<td>System Owner</td>
<td>HAMILTON PORT AUTHORITY</td>
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<tr>
<td>Account Number</td>
<td>79975</td>
</tr>
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<tr>
<td>External Reference Organization</td>
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<td>Each</td>
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<td>Accounting Classification</td>
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<tr>
<td>Operational Status Code</td>
<td>Not Used</td>
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</tbody>
</table>

| Configuration | |
| New Version Label | 1 |
| Last Version Label | |
| Creation Date | 28-May-1992 00:00:00 |
| Status | Active |
| Install Date | |
| Expiration Date | |
| Shipped On Date | |
| Return By Date | |
| Actual Return Date | |

| Other Item Instance Details | |
| Transaction | |
| History | |
| Item Instance | |
| History | |
| Operating Units | |
| Contracts | |
| Orders | |
| Service Requests | |
| Orders and Directives | |
| View | |
| Relationship | |
| Graphically | |

**Fuel Type1**

<table>
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<tr>
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**Fuel Type2**

<table>
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<tr>
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**Fuel Type3**

<table>
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<tr>
<th>13500</th>
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**Capacity (L)**

<table>
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<th>Double Wall UST</th>
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</table>

**Tank Material**

<table>
<thead>
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<th>Sacrificial anode</th>
</tr>
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**Tank Type**

<table>
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<tr>
<th>1988</th>
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**FS Corrosion Protection**

<table>
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</table>

**Installation Year**

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**Manufacturer**

<table>
<thead>
<tr>
<th>Model</th>
</tr>
</thead>
</table>

**Serial Number**

<table>
<thead>
<tr>
<th>Description</th>
</tr>
</thead>
</table>

**2009VBS**
**FS Inspection Report**

Service Request #: 551894  
Inspection Report #: 3271777

**Inspection Address:**  
1 GUISE ST @ THE FOOT OF JAMES ST N  
HAMILTON:ON  
CA L8L 8C5

**Customer Name and Address:**  
HAMILTON PORT AUTHORITY  
605 JAMES ST N Suite 601  
HAMILTON:ON  
CA L8L 1K1

**Reference Number(s):**  
**Inspection Completion Date:**  
NOV 21, 2012

**Facility Type:**  
FS Marina  
**Equipment Type:**  

**Task Type:**  
FS-Periodic LF Inspection  
The facility/equipment is inspected in accordance with Ontario’s Technical Standards & Safety Act and the appropriate regulations and codes. When an Inspector’s order is issued, time limits for compliance reflect the severity of the violation and serve to avoid disruption of service.

---

**Orders Issued To: Hamilton Port Authority**

<table>
<thead>
<tr>
<th>Line</th>
<th>Reference and Order(s)</th>
<th>Compliance Date</th>
</tr>
</thead>
</table>
| 61787 1-1 | Liquid Fuels Handling Code 2007, 2.3.1.2  
The corrosion protection system for an underground storage tank system shall be tested and certified in writing to be in working order at intervals not exceeding 2 years by a professional engineer, by a person with the appropriate NACE certification, or where CAN/ULC-S603.1 cathodic protection is used, by a person holding a valid OPCA cathodic protection tester certificate.  
You are hereby ordered to provide a copy of the written report on the testing of the corrosion protection system on the underground fuel storage tank system dated within the last 2 years to TSSA. | JUL 01, 2013 |

61787 1-2 | Liquid Fuels Handling Code 2007, 4.6.13  
An approved emergency breakaway device shall be installed on each hose at all retail facilities one year after this Code comes into effect.  
You are hereby ordered to comply with the above section of the code.  
Note: at time of inspection breakaway fittings not installed on hoses, install breakaway fittings on all hoses as required | JUL 01, 2013 |

---

**Task Notes**

PERIODIC INSPECTION ON MARINA FACILITY. MET ON SITE WITH AL ROSS TO DISCUSS LFHC CHANGES, COPY PROVIDED, SITE HAS 3 UNDERGROUND TANKS WITH ELECTRONIC MONITORING SYSTEM (VEEDEROOT TLS-250). ORDERS ISSUED, ANY INQUIRIES CALL 905-517-6455

---

**Customer Signature & Position / Date:**  
**Inspector Name:**  
Danek, Debbie  
**Inspector Contact Number:**  
905-331-9917

**Report Received By:**  
Al Ross - Parts & Purchasing Coordinator  
**Customer Contact Number:**  
905-525-4330 ext 242  
**Inspector Email:**  
DDanek@tssa.org  
**Inspector Fax:**  
905-331-9921

As a not-for-profit regulatory authority, TSSA operates on a cost recovery basis. An Invoice will be issued for the Total Charges Incurred.  
(Note: This is not an invoice)

*Putting Public Safety First*
<table>
<thead>
<tr>
<th>Details</th>
<th>Deficiencies</th>
<th>Time</th>
<th>Documents</th>
<th>Comments</th>
<th>O/S Orders</th>
<th>Resolved Orders</th>
<th>Create Def</th>
</tr>
</thead>
</table>

**Show Resolved?**

- **Description**
- **Found By**
- **Date**
- **Resolved By**
- **Date**

**Schedule**
- **Scheduled Start:** Sep 07, 2004
- **Scheduled Complete:** 23:59 dd, yyyy
- **Actual Start:** 23:59 dd, yyyy hh:mm
- **Actual Complete:** Jun 06, 2008 10:36

**Assignments**

**Description:** HAMILTON PORT AUTHORITY

**Status:** Complete by DANEKO

**Assigned To:** Debbie Danek

**Outcome:** Inspection Complete
Fuel Safety Inspection Report

1 Report Number: FS-2002-0004353
2 File Number: FS PIN 2002-04353

Technical Standards and Safety Act, 2000

3 Location Address
FOOT OF JAMES ST N
HAMILTON, ON K9J 3K5
CANADA

4 License/Serial Number
0015660001-C

5 Job Type
Periodic Inspection (FS)

6 Inspection Date
Jun 06, 2008

7 Facility Type
Marina

Hamilton Port Authority
Suite 601, 605 James St N
HAMILTON, ON L8L 1K1
CA

The Facility/Equipment is inspected in accordance with Ontario's Technical Standards & Safety Act and the appropriate regulations and codes. When an Inspector's order is issued, time limits for compliance reflect the severity of the violation and serve to avoid disruption of service. In the interim period the recipient must ensure that additional precautions are taken for safe use.

INSPECTION NOTE: PERIODIC INSPECTION ON MARINA 3 UG FIBREGLASS TANKS WITH FIBREGLASS PIPING, VEEERTOOT ELECTRONIC MONITORING SYSTEM INSTALLED - NO INSTRUCTIONS ISSUED AT THIS TIME.

<table>
<thead>
<tr>
<th>Date</th>
<th>Activity</th>
<th>Hours</th>
<th>Rate</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jun 6, 2008</td>
<td>Inspection</td>
<td>1.50</td>
<td>Straight</td>
<td></td>
</tr>
<tr>
<td>Jun 6, 2008</td>
<td>Travel</td>
<td>0.50</td>
<td>Straight</td>
<td></td>
</tr>
</tbody>
</table>

13 Total* Time 2

14 Travel Time 0.5

15 Billable Hours 0

16 Additional Charges 0

Voluntary Compliance Option* - Eligible? [ ] Yes [ ] No

*Please, refer to guidelines

I hereby confirm that all the Inspector’s orders, appearing on this inspection report have been completed.

Print Name: Al Ross - Parts & Purchasing Co-ordinator

Client Signature

Debbie Dane
(905) 331-9921

As a not-for-profit regulatory authority, TSSA operates on a cost recovery basis. An invoice will be issued for this activity.

Putting Public Safety First
(Note: This is not an invoice)
Perform Periodic Inspection (FS) for Job 009496603-003 (E041773)

<table>
<thead>
<tr>
<th>Description:</th>
<th>E041773 Marina 26</th>
</tr>
</thead>
<tbody>
<tr>
<td>Status:</td>
<td>Complete by EMPLOYEE</td>
</tr>
<tr>
<td>Assigned To:</td>
<td>CONV</td>
</tr>
<tr>
<td>Outcome:</td>
<td>Inspection Complete</td>
</tr>
</tbody>
</table>

**Schedule**
- Scheduled Start: 
- Scheduled Complete: 
- Actual Start: Sep 07, 2001 00:00
- Actual Complete: Sep 07, 2001 00:00

**Details**

<table>
<thead>
<tr>
<th>Description</th>
<th>Found By</th>
<th>Date</th>
<th>Resolved By</th>
<th>Date</th>
</tr>
</thead>
</table>

**Show Resolved?**

- Check box to show resolved details.
Inspector's Report - Part A

Location Inspected
605 James St. N., Hamilton

Owner's Name

Address
605 James St. N.

City/town
Hamilton

Postal Code
LEC 1K1

Tel. No.
905-525-4380

Fuel Supplier

Operator's Name
Michael West

License No.
316 605 985

Contractor

Registration No.
2015660001

Date of Issue
02/03/91

Investigation/Audit/Occurrence Summary

Minima, full side fuelling facility audit complete. Instructions issued.


Equipment/Appliance/Component

Type

Description

Manufacturer

Model

Serial No.

Material

Fuel Input Rating

Date of Manufacture

Installation Date

Supply Pressure

Manifold Pressure

As a not-for-profit regulatory authority, the Technical Standards and Safety Authority operates on a cost recovery basis. An invoice will be issued for this activity.

Client's Signature

Inspector's Name

Badge #

Date of Inspection

FB 09181 (19/91)
**Inspector's Instructions/Orders**

**Part B**

Issued under Ontario's **Energy Act** and **Gasoline Handling Act**

**Location Address (No RR's)**

605 James St W, Hamilton

**Issued To**

Harbor West Marina

**Mailing Address**

Same

**Act**

Do # M0050898

**Regulation**

TTSA 2000

**Licence #**

Expiry

**Registration #**

Expiry

**Certificate #**

Expiry

---

<table>
<thead>
<tr>
<th>Order #</th>
<th>Section</th>
<th>You are hereby instructed to correct the following infraction(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>3 (46)</td>
<td>THERE SHALL BE (HOUSES) AT EVERY FACILITY A MINIMUM OF TWO FIRE EXTINGUISHERS WHICH CAN LOCATED SO AS TO BE READILY ACCESSIBLE AND WHICH ARE MAINTAINED TO HAVE AN EFFECTIVE TOTAL RATING EQUIVALENT TO AT LEAST 20-BC.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Connection - Provide two accessible fire extinguishers 20-BC min.</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>Install a sign restricting smoking - No smoking - Location of sign -</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Maintain a record of training for employees regarding emissions - 12/07/01</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Training and fueling application.</td>
</tr>
</tbody>
</table>

---

**Received By:** (print) AL Ross

**Position:** Parts Manager

**Signature:**

**Inspector:** (print) Coral de Chame

**Signature:**

**Inspector's Badge #:** 151

---

Head Office

Page of
Perform Periodic Inspection (FS) for Job 009496603-002 (E013562)

| Description | E013562 Gasoline Station 56 |
| Status | Complete by BAILEYF |
| Assigned To | Frank Bailey |
| Outcome | Minor Deficiencies - Must Reinspect |

<table>
<thead>
<tr>
<th>Schedule</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Scheduled Start:</td>
<td>mmm dd, yyyy</td>
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<tr>
<td>Scheduled Complete:</td>
<td>mmm dd, yyyy</td>
</tr>
<tr>
<td>Actual Start:</td>
<td>Aug 23, 1999 00:00</td>
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<tr>
<td>Actual Complete:</td>
<td>Aug 23, 1999 00:00</td>
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<table>
<thead>
<tr>
<th>Details</th>
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<th>Documents</th>
<th>Comments</th>
<th>O/S Orders</th>
<th>resolved Orders</th>
<th>Create Def</th>
</tr>
</thead>
<tbody>
<tr>
<td>Show Resolved?</td>
<td>Description</td>
<td>Found By</td>
<td>Date</td>
<td>Resolved By</td>
<td>Date</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Inspector's Report/ Rapport de l'inspecteur(trice)
Part A/Partie A

Location Inspected / Lieu inspecté
Foot of James St

Owner's Name / Nom du/ de la propriétaire
Hamilton Harbour Commissioner

Address / Adresse
605 James St. North

Postal Code / Code postal
L8L 1K1

Tel. No. / N° de tél.
905-525-4030

City/town / Ville
Hamilton

Operator's Name / Nom de la personne responsable
Hamilton Harbour Commissioner

License No / N° de permis
9013660001

Fuel Supplier / Fournisseur de combustible
PetroCan.

City / Ville

Contractor / Entrepreneur

Registration # / N° d'inscription

OPERATION/ACTIVITÉ

SUB TYPE/SOUS TYPE
10/114 (10)

LOC TYPE/TYPE DE LIEU
D2

POP DEN/ DENS. DE POP.
0.2

FUEL/COMBUSTIBLE
GAS

CLASS/CATÉGORIE
01

REASON/RAISON
26

TRIGGER/ TRIGGÉ PAR
01

ACTION / MESURES PRENues
ACT/LOI
C1

REGRÉGULATION
G1

DURATION/DURÉE
S.25

BILLABLE / À FACTURER
Y

TRAVEL / VOYAGE
30.75

BILL FACTURER Y/N
Y

DAMAGE / DOMMAGES
OCC RATE / GRAV. DE L'ACC.
S21/93

CON FACT / FACT. CONTR.
S

OCC DATE / DATE DE l'ACC.

OCC TIME / HEURE DE l'ACC.

MANDATED / MANDAT
ON

FIELD / DOMAINE
CALLED / INTERVENTION
CONSULT / CONSULT. ON
CONSULT. REM./ REMÉDIER
ON

COMPLETED / TERMINÉ
ON

Comments /Commentaires

Carried out audit of gas station and marina facility. Issued instruction for compliance.

* Purchase order # M00082792

Equipment / Matériel / Appareil / Composant

Type / Type
C-AS / Diesel

Description / Description
3200 L

Manufacturer / Fabricant

Model / Modèle

Serial No / N° de série

Material / Matériel

Corrosion Protection / Protection contre la corrosion

Fuel Input Rating / Débit de combustible

Capacity / Capacité

Installation Date / Date d'installation

Date of Inspection / Date d'inspection

Supply Pressure / Pression d'alimentation

Manifold Pressure / Pression d'admission

Badge No / N° d'insigne

Date of Inspection / Date d'inspection

187

Date of Inspection / Date d'inspection

3 OR 25
**Inspector's Instructions/orders**

Les ordres et directives des inspecteurs

Report #: N° de rapport

E013562

Issued under Ontario’s Energy Act and Gasoline Handling Act

Délivré en vertu de la Loi sur les hydrocarbures et de la Loi sur la manutention de l’essence de l’Ontario

Location Address (No RR’s)
Adresse des locaux (pas de R.R.)

Feed of Stoney St

Issued To/Délivré à

AL Ross

Mailing Address/Adresse poste

As Above

Your attention is requested pursuant to:

On attirer votre attention sur les dispositions suivantes:

Act Loi

S-HA

Regulation Réglement

S21/92

<table>
<thead>
<tr>
<th>Order #</th>
<th>Section/Article</th>
<th>You are hereby instructed to correct the following Infraction(s) Par les présentes, on vous ordonne de rectifier l’infraction ou les infractions suivantes</th>
<th>Compliance Date/Date limite d’exécution</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>4(6)</td>
<td>All dispensers at dispensing facilities, truck-vehicle loading and unloading, underground tank, fill pipe and sewer pipe locations and any other where hazardous operations occur shall be kept clean and free of ground vegetation and combustible materials that essential to the handling operations.</td>
<td>99-09-20</td>
</tr>
<tr>
<td>2</td>
<td>8(12)</td>
<td>A nozzle used for dispensing leaded gasoline or diesel shall not have a spout diameter less than 23.62 mm.</td>
<td>99-09-20</td>
</tr>
<tr>
<td>3</td>
<td>5(20)</td>
<td>The fill pipe for an underground storage tank shall (e) be equipped with a tower designed, installed and maintained so that it will not transmit any tank to the tank.</td>
<td>99-09-20</td>
</tr>
</tbody>
</table>

Received By: (print)

Reçu par : (lettres moulées)

AL Ross

Position/Fonction :

Parts Manager

Signature:

AL Ross

Inspector: (print)

Inspecteur (trice): (lettres moulées)

FRANK BAILY

Signature:

FRANK BAILY

Inspector’s Badge#: N° d’insigne de l’inspecteur (trice):

1811

Page 1 of 6
<table>
<thead>
<tr>
<th>Order/#</th>
<th>Section/Article</th>
<th>Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>(10)</td>
<td>S(34)</td>
<td>The corrosion protection system for an underground storage tank shall be tested and certified by a person certified by NACE or an engineer of intervals not exceeding two years and records of testing and certification shall be retained by the owner. Approved spill and tech containment must be provided at the pump island immediately beneath all dispensers and pumps in order to prevent product from escaping into the environment.</td>
</tr>
</tbody>
</table>

Head Office

Inspector: (print) 

Signature:

Inspector's Badge#: 187
**Inspector's Instructions/orders**

**Les ordres et directives des inspecteurs**

---

**Location Address (No RR's)**

**Adresse des locaux (pas de R.R.)**

Foot of James St, Hamilton

---

**Issued To/Délivré à**

AL Ross

---

**Mailing Address/Adresse poste**

As above

---

**Your attention is requested pursuant to:**

On attire votre attention sur les dispositions suivantes :

---

**Act/Loi**

G-4/A

---

**Regulation/Règlement**

521/93

---

**Order #/N° de l'ordre**

<table>
<thead>
<tr>
<th>Section/Article</th>
<th>You are hereby instructed to correct the following Infraction(s)</th>
<th>Compliance Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>AT every facility there shall be available written emergency procedures outlining the actions to be taken by employees in the event of a spill, leak, fire or explosion.</td>
<td>99-09-30</td>
</tr>
<tr>
<td>8</td>
<td>The owner or operator of a facility shall ensure that all employees are trained in the use of the emergency procedures required by subsection (40) and shall maintain a record signed by the employee confirming such training.</td>
<td>99-09-30</td>
</tr>
<tr>
<td>9</td>
<td>The installation of electrical equipment at a facility shall be in accordance with the requirements of the Electrical Safety Code.</td>
<td>99-09-30</td>
</tr>
</tbody>
</table>

---

**Received By: (print)**

AL Ross

---

**Inspector (print)**

Frank Bailey

---

**Signature**

Al Ross

---

Inspector's Badge:

89

---

Page 4 of 6

Head Office
<table>
<thead>
<tr>
<th>Order #/ N° de l'ordre</th>
<th>Section/ Article</th>
<th>Vous sont adressés des instructions pour corriger les infractions suivantes (Par les présentes, on vous ordonne de rectifier l'infraction ou les infractions suivantes)</th>
<th>Compliance Date/ Date limite d'exécution</th>
</tr>
</thead>
<tbody>
<tr>
<td>(5) 8(25)</td>
<td></td>
<td>At every pump island at a facility there shall be installed visible to all persons on the approach the pump island, a sign which shall (a) be not less than 20 by 28 cm in size and (b) bear either (i) the words in black letters and less than 25 mm in height on a yellow background, &quot;NO SMOKING WITHIN 3 METRES TURN OFF IGNITION&quot;, or (ii) the international &quot;NO SMOKING - IGNITION OFF&quot; symbols in red and black at least 10 cm in diameter on a white background.</td>
<td>98-05-20</td>
</tr>
<tr>
<td>(6) 8(27)</td>
<td></td>
<td>At every facility there shall be a sign installed, clearly visible to all persons, that sets forth the types of portable containers acceptable for the filling of gasoline.</td>
<td>98-05-20</td>
</tr>
</tbody>
</table>

Received By: (print) AL ROSS  
Inspector: (print) FRANK EDLEY  
Inspector’s Badge#: 167  
Position: PARTS MANAGER  
Signature: AL ROSS  
N° de l’insigne de l’inspecteur (trice) :
<table>
<thead>
<tr>
<th>Order #/N° de l'ordre</th>
<th>Section/Article</th>
<th>You are hereby instructed to correct the following infractions(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 (40)</td>
<td></td>
<td>The owner or operator of an underground storage tank system shall maintain a manual or approved automated in-utility control system for each tank and the includes a clearly record excluding Sundays for a manual system if the facility is closed that day of — measurement of the content of each tank — measurement of the amount of product withdrawn from and delivered to each tank — a reconciliation of clause (a) and (b) — a recorded measurement of water content — a record made every 60 days confirming the operation of the interstitial space monitoring system. — Retention of the records required by clauses (a), (b), (c), (d) at the facility and (a) retention of records older than 2 years at the facility.</td>
</tr>
</tbody>
</table>

| Compliance Date/Date limite d'exécution | 30-09-20 |

Received By: (print) AL ROSS  
Reçu par: (lettres moulées) AL ROSS  
Position: MANAGER  
Signature: AL ROSS  

Inspector: (print) FRANK BAILEY  
Inspecteur (trice): (lettre moulées) FRANK BAILEY  
Signature:  
Inspector’s Badge#: 189  
N° d’insigne de l’inspecteur (trice): 189
Order # / N° de l’ordre: (12) 8(98)

Section/ Article: 8(98)

You are hereby instructed to correct the following Infraction(s)
Par les présentes, on vous ordonne de rectifier l’infraction ou les infractions suivantes

At each marine there shall be two visible signs, visible to all persons using the dispensers, with minimum dimensions of 18.5 cm by 8.25 cm, with one sign bearing the words

WARNING

No one other than the fuel attendant shall be on board a watercraft during refuelling.

And the other bearing the words

WARNING

All engines shall be off during refuelling, and there shall be no source of ignition on board or within 3 meters of the fuel transfer point.

Compliance Date / Date limite d’exécution: 09-09-2000

Received By: (print) AL ROSS

Position: PARTS MANAGER

Inspector: (print) FRANK SALAY

Inspector’s Badge #: 189

Page 6 of 6
**Location Inspected / Lieu inspecté**

**NATIONAL PETROLEUM PRODUCTS**

**Address / Adresse**

**605 JAMES ST N**

**City/town / Ville**: HAMILTON

**Postal Code / Code postal**

**L8L 1K1**

**Operator's Name / Nom de la personne responsable**

**Licence No / N° de permis**

**Contractor / Entrepreneur**

**Owner's Name / Nom du/la propriétaire**

**Address / Adresse**

**City/town / Ville**

**Postal Code / Code postal**

**Tel. No. / N° de tél.**

**Fuel Supplier / Fournisseur de combustible**

**City / Ville**

**Registration # / N° d’inscription**

---

**OPERATION ACTIVITY / SUB TYPE / SOUS TYPE**

| 01/3 |

**SUB TYPE / SOUS TYPE**

**LOC TYPE / TYPE DE LIEU**

**POP DENS / DENS. DE POP.**

**FUEL / COMBUSTIBLE**

**CLASS / CATÉGORIE**

**REASON / RAISON**

**TRIGGERED / MOTIVÉ PAR**

| 01 |

---

**ACTION / MESURES PRISES**

**ACT / LOI**

**REG / RÈGLEMENT**

**DURATION / DURÉE**

**BILLABLE À FACTURER**

**TRAVEL / VOYAGE**

**BILL FACTURER**

**OM / ON**

**DAMAGE / DOMMAGES**

**OCC DATE / HEURE DE L’ACC.**

**CON FACT / FACT, CONTR.**

**OCC DATE / DATE DE L’ACC.**

**MANDATED / MANDAT**

**OM / ON**

**FIELD / DOMAINE 1**

**CALL / INTERVENTION**

**CONSULT / CONSULT.**

**SITE REMEDIER / Y/N**

**COMPLETED / TERMINÉE ?**

---

**UNABLE TO LOCATE PLANT. WHEN REACHED OWNERS BY PHONE I WAS INFORMED THE PLANT IS NOT BUILD YET AND IT IS ON HOLD DUE TO PROBLEMS WITH THE HARBOUR.**

---

**Equipment / Appliance / Component / Matériel / Appareil / Composant**

| Type / Type |

| Code / Code |

| Description / Description |

| Manufacturer / Fabricant |

| Serial No / N° de série |

| Material / Matériau |

| Corrosion Protection / Protection contre la corrosion |

| Fuel Input Rating / Débit de combustible |

| Capacity / Capacité |

| Installation Date / Date d'installation |

| Manufacture Date / Date de fabrication |

| Supply Pressure / Pression d'admission |

| Manifold Pressure / Pression d'admission |

---

**Inspector's Name / Nom de l'Inspecteur / inspectrice**

**Client’s Signature / Signature du client / de la cliente**

**Badge No / N° d’insigne**

**Date of Inspection / Date d’inspection**

---

**E-025985**
13 March 2013
File No: FS 41616

Stacey Mater
DILLON CONSULTING LIMITED
51 Breithaupt Street
Sutie 200
KITCHENER, ON N2H 5G5

Dear Madam:


This is with reference to your request and fee of $50.00 + HST, for information on the above location.

Enclosed are computerised screen prints showing an active self-serve private fuel outlet along with equipment details showing underground fuel storage tank details.

After a search of our files, TSSA has no record of any further outstanding instructions, incident reports, fuel oil spills, or contamination records respecting the above-mentioned property.

This is all the information the Fuels Safety Division has at this time regarding the above address.

*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.*

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

Yours truly,

[Signature]
Prem Lal
Coordinator Public Information Services
### Installed Base

#### General
- Additional Attributes
- Assets
- Party Relationships

#### Item Instance Details
- **Item Instance:** 9225580
- **Item:** FS PRIVATE FUEL OUTLET - SELF SERVE
- **Item Description:** Fuels Safety Private Fuel Outlet - Self Serve

#### General Attributes

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Organization Name</td>
<td>TSSA Item Master</td>
</tr>
<tr>
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<td>Revision</td>
</tr>
<tr>
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<td>03-JAN-1990 0:00</td>
</tr>
<tr>
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<tr>
<td>System</td>
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<tr>
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<tr>
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<td>03-JAN-1990</td>
</tr>
<tr>
<td>Shipped On Date</td>
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<tr>
<td>End Date</td>
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<tr>
<td>Return By Date</td>
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<tr>
<td>Actual Return Date</td>
<td></td>
</tr>
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</table>

* Indicates required field.

Time format is HH:MM

Note: You do not have permission to make updates in this page.

#### Owner
- **Party Type:** Party
- **Party Name:** LAIDLAW CARRIERS INC
- **Account Number:** 101773
- **Party Number:** 223008
- **Account Name:** LAIDLAW CARRIERS INC

#### Current Location
- **Type:** Party Site
- **Party Name:** LAIDLAW CARRIERS INC
- **Party Number:** 223008
- **Address:** 65 GUISE ST, HAMILTON, L8L 8B4, CA
- **Site Number:** 223807

#### Installed At
- **Installed Date:** 03-JAN-1990
- **Installed Time:** 0:00

Change in installed date does not change contract date.

#### Order
- **Sales Order Number**
- **Sales Order Date**
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<th>Item Views</th>
<th></th>
<th>Descriptive Flexfields</th>
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<td>Merchant</td>
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<td>FS Facility</td>
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<td>IB Trackable</td>
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Select Context Value and click 'Go' to show relevant fields.

- **Facility Type 2**
- **Facility Type 3**
- **Total Capacity - Liquid Fuel Tanks (L)**: 90920
- **Total Capacity - Propane Tank s (USWG)**

*Previous Facility Type*

*Previous Instance Number*
Item Instance Details

Installed Base

Item Instance | Counters | Mass Update
Item Instances | Systems | Transactions
Item Instance: Item Instances > Item Instance Search >
View: Item Instance: 10777694

Item | FS LIQUID FUEL TANK | System Owner | LAIDLAW CARRIERS INC
Item Description | FS Liquid Fuel Tank | Account Number | 101773

General | Location | Associations | Configuration | Counters | Notes
External Reference | TSSA Item Master | New Version Label | 1
Organization | Last Version Label | Creation Date | 03-Jan-1990 00:00:00
Revision | Status | Active
Instance Name | Install Date | 03-Jan-1990 00:00:00
Quantity | Shipped On Date | Return By Date
UM | Each | Not Used
Item Instance Type | Accounting Classification | Customer Product | Actual Return Date
Item Condition
Accounting Classification | Operational Status Code | Not Used

Hide Instance Flex Fields

Fuel Type1 | Diesel
Fuel Type2
Fuel Type3
Capacity (L) | 22730
Tank Material | Steel
Tank Type | Liquid Fuel Single Wall UST
FS Corrosion Protection | Impressed Current
Overfill Protection Type | Impressed Current
Installation Year | 1971
ULC Standard
Manufacturer
Model
Serial Number
Description | UNDERGROUND TANK

Show Additional Attributes

Return to Instance Search

Privacy Statement

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Installed Base

Item Instance  Counters  Mass Update
Item Instances  Systems  Transactions
Item Instance: Item Instances >
View: Item Instance: 10777716

Item Description  FS LIQUID FUEL TANK
FS Liquid Fuel Tank

System Owner  LAIDLAW CARRIERS INC
Account Number  101773

General  Location  Associations  Configuration  Counters  Notes

External Reference  TSSA Item Master
Organization
Revision
Instance Name
Quantity
Each
UOM
Item Instance Type
Item Condition
Accounting Classification
Operational Status Code
Customer Product
Not Used

New Version Label
Last Version Label
1
Creation Date
03-Jan-1990 00:00:00
Status
Active
Install Date
03-Jan-1990 00:00:00
Expiration Date
Shipped On Date
Return By Date
Actual Return Date

Hide Instance Flex Fields
Fuel Type1
Diesel
Fuel Type2
Diesel
Fuel Type3

Capacity (L)
22730
Tank Material
Steel
Tank Type
Liquid Fuel Single
Wall UST
FS Corrosion Protection
Impressed Current
Overfill Protection Type
Impressed Current
Installation Year
1971
ULC Standard
Manufacturer
Model
Serial Number
Description
UNDERGROUND TANK

Other Item Instance Details
Transaction
History
Item Instance
History
Operating Units
Contracts
Orders
Service Requests
Orders and
Directives
View Relationship
Graphically

Return to Instance Search
Installed Base

Item Instance | Counters | Mass Update
---|---|---

**Item Instances** | Systems | Transactions
---|---|---
Item Instance: Item Instances
View : Item instance : 10777731

---

** FS LIQUID FUEL TANK **

** FS Liquid Fuel Tank **

** Item **

** Item Description **

** System **

**Owner**

LAIDLAW CARRIERS INC

**Account Number**

101773

** General | Location | Associations | Configuration | Counters | Notes **

- ** External Reference **
  - ** Organization **
  - ** Revision **
  - ** Instance Name **
  - ** Quantity **
  - ** UOM **
    - ** Item Instance Type **
    - ** Item Condition **
  - ** Accounting Classification **
  - ** Operational Status Code **

- ** TSSA Item Master **

- ** New Version Label **
  - ** Last Version Label **
  - ** Creation Date **
    - 03-Jan-1990 00:00:00
  - ** Status **
    - Active
  - ** Install Date **
  - ** Expiration Date **
    - 03-Jan-1990 00:00:00
  - ** Shipped On Date **
  - ** Return By Date **
  - ** Actual Return Date **

---

** Hide Instance Flex Fields **

- ** Fuel Type **
  - Diesel
- ** Fuel Type1 **
  - Diesel
- ** Capacity (L) **
  - 22730
- ** Tank Material **
  - Steel
- ** Tank-Type **
  - Liquid Fuel Single Wall UST
  - Impressed Current
  - Impressed Current
- ** FS Corrosion Protection **
- ** Overfill Protection Type **
- ** Installation Year **
  - 1971
- ** ULC Standard **
- ** Manufacturer **
- ** Model **
- ** Serial Number **
- ** Description **
  - UNDERGROUND TANK

---

** Show Additional Attributes **

---

Return to Instance Search

Privacy Statement

Item Instance | Counters | Mass Update | Home | Logout | Preferences | Help
---|---|---|---|---|---|---

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Installed Base

Item Instance | Counters | Mass Update
---|---|---
Item Instances | Systems | Transactions

View: Item Instance: 10777749

Item | FS LIQUID FUEL TANK
---|---
Item Description | FS Liquid Fuel Tank

System | LAIDLAW CARRIERS INC
Account Number | 101773

Other Item Instance Details
Transaction History
Item Instance History
Operating Units Contracts
Orders Service Requests
Orders and Directives
View Relationship Graphically

General | Location | Associations | Configuration | Counters | Notes
---|---|---|---|---|---
External Reference Organization | TSSA Item Master
Revision | 1
Instance Name Quantity | Each
UOM | Customer Product Not Used
Item Instance Type | Accounting Classification
Item Condition | Operational Status Code

Hide Instance Flex Fields
Fuel Type1 Diesel
Fuel Type2 Diesel
Fuel Type3 Steel
Capacity (L) 22730
Tank Material | Liquid Fuel Single
Tank Type | Wall UST
FS Corrosion Protection | Impressed Current
Overfill Protection Type | 1971
Installation Year | UNDERGROUND TANK
ULC Standard | Manufacturer Model
Serial Number | Description

Show Additional Attributes

Return to Instance Search
Hi Renee,

Thank you for your inquiry.

We have no record in our database of any fuel storage tanks at the subject address (addresses).

For a further search in our archives please submit your request in writing to Public Information Services via e-mail (publicinformationservices@tssa.org) or through mail along with a fee of $56.50 (including HST) per location. The fee is payable with credit card (Visa or MasterCard) or with a Cheque made payable to TSSA.

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

Thank you and have a great day!

Regards,

Sarah Quibell
Public Information Services
I would like to submit a request to search the TSSA records for the following address in Hamilton, Ontario:

52 Burlington Street West

Thank you for your assistance, please let me know if you require additional information.

Regards,

Renee

Renee Recoskie, B.Sc.
Dillon Consulting Limited
235 Yorkland Blvd Suite 800
Toronto, Ontario, M2J 4Y8
T - 416.229.4647 ext. 2342
M - 647.406.6420
F - 416.229.4692
RRecoskie@dillon.ca
www.dillon.ca

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Paul Yunt called after receiving our request for environmental records from Paul Lane.

Mr. Yunt indicated that Sun Canadian did not have any records with respect to spills or leaks on Pier 8, from their pipelines. He requested that Dillon provide documentation from the property owner indicating that we had permission to conduct our study and make the request, and that he would send a written confirmation of our phone conversation. I indicated that I would send an email once I had the owner respond via email re: permissions.

End of call.
I should give you a little history regarding these 2-6" Imperial Oil lines. They have had no product in them for 25+ years. They have been put in "idle" status which means a positive pressure of a couple of pounds of nitrogen. These pressures are monitored on a preventative maintenance schedule to ensure there are no line issues. The lines are treated as "live" as far as cathodic protection, inspections, locates and crossings are concerned. As far as I can see looking into old files and talking to staff Imperial has no knowledge of any issues in the past 25 years.

Protect tomorrow, today.

Kevin Meldrum
Crossing Coordinator
Imperial Oil Limited
Pipelines and Distribution
100 Fifth Concession Road East
Waterdown, Ontario
LOR E11
Tel (905) 689-6652 Ext. 231
Fax (905) 689-3553
Cell (905) 516-1186
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Appendix F

Ecolog ERIS Reports
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Executive Summary

Property Information:

Project Property: Hamilton Waterfront Trust - Bayview Park
52 Burlington St W Hamilton On Hamilton ON

P.O. Number:

Order Information:

Order No.: 20141003065
Date Requested: 10/10/2014
Requested by: Dillon Consulting Limited
Report Type: Quote - Custom-Build Your Own Report

Additional Products:

City Directory Search Subject Site
Fire Insurance Maps Canadian Fire Insurance Maps
Topographic Map ANSI Map & Ontario Base Map (OBM)
Executive Summary: Report Summary

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<th>Searched</th>
<th>Project Property</th>
<th>Boundary to 0.25km</th>
<th>Total</th>
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<td>intersection of Hughson St N and Burlington St E Hamilton ON L8L 4N8</td>
<td>36</td>
<td></td>
<td></td>
</tr>
<tr>
<td>32</td>
<td>SPL</td>
<td>PUC</td>
<td>POLE TRANSFORMER ON THE EAST SIDE OF JAMES ST., 2ND POLE SOUTH OF MACAULAY TRANSFORMER HAMILTON CITY ON</td>
<td>37</td>
<td></td>
<td></td>
</tr>
<tr>
<td>33</td>
<td>ECA</td>
<td>Anthony Samuel Cipolla</td>
<td>407 MacNab St N Hamilton ON L8L 1L2</td>
<td>37</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Executive Summary: Summary By Data Source

**BORE - Borehole**

A search of the BORE database, dated 1875-Aug 2011 has found that there are 12 BORE site(s) within approximately 0.25 kilometers of the project property.

<table>
<thead>
<tr>
<th>Site</th>
<th>Address</th>
<th>Distance m</th>
<th>Map Key</th>
</tr>
</thead>
<tbody>
<tr>
<td>ON</td>
<td>8.5 m-1-803411541-a</td>
<td>8.5</td>
<td>1</td>
</tr>
<tr>
<td>ON</td>
<td>19.7</td>
<td>19.7</td>
<td>4</td>
</tr>
<tr>
<td>ON</td>
<td>10.3</td>
<td>10.3</td>
<td>5</td>
</tr>
<tr>
<td>ON</td>
<td>23.9</td>
<td>23.9</td>
<td>7</td>
</tr>
<tr>
<td>ON</td>
<td>48.1</td>
<td>48.1</td>
<td>9</td>
</tr>
<tr>
<td>ON</td>
<td>114.4</td>
<td>114.4</td>
<td>12</td>
</tr>
<tr>
<td>ON</td>
<td>137.9</td>
<td>137.9</td>
<td>17</td>
</tr>
<tr>
<td>ON</td>
<td>143.8</td>
<td>143.8</td>
<td>19</td>
</tr>
<tr>
<td>ON</td>
<td>163.6</td>
<td>163.6</td>
<td>24</td>
</tr>
<tr>
<td>ON</td>
<td>168.3</td>
<td>168.3</td>
<td>25</td>
</tr>
<tr>
<td>ON</td>
<td>205.8</td>
<td>205.8</td>
<td>29</td>
</tr>
<tr>
<td>ON</td>
<td>213.7</td>
<td>213.7</td>
<td>30</td>
</tr>
</tbody>
</table>

**CA - Certificates of Approval**

A search of the CA database, dated 1985-Oct 30, 2011* has found that there are 1 CA site(s) within approximately 0.25 kilometers of the project property.

<table>
<thead>
<tr>
<th>Site</th>
<th>Address</th>
<th>Distance m</th>
<th>Map Key</th>
</tr>
</thead>
<tbody>
<tr>
<td>R.M. OF HAMILTON-WENTWORTH</td>
<td>WOOD ST./MACNAB ST./JAMES ST. HAMILTON CITY ON</td>
<td>108.2</td>
<td>14</td>
</tr>
</tbody>
</table>

**ECA - Environmental Compliance Approval**
A search of the ECA database, dated Oct 31, 2011-Sep 2014 has found that there are 1 ECA site(s) within approximately 0.25 kilometers of the project property.

<table>
<thead>
<tr>
<th>Site</th>
<th>Address</th>
<th>Distance m</th>
<th>Map Key</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anthony Samuel Cipolla</td>
<td>407 MacNab St N</td>
<td>232.0</td>
<td>33</td>
</tr>
<tr>
<td></td>
<td>Hamilton ON L8L 1L2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**EHS - ERIS Historical Searches**

A search of the EHS database, dated 1999-Mar 2013 has found that there are 3 EHS site(s) within approximately 0.25 kilometers of the project property.

<table>
<thead>
<tr>
<th>Site</th>
<th>Address</th>
<th>Distance m</th>
<th>Map Key</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Leander Drive &amp;&amp; Guise Street</td>
<td>4.4</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Hamilton ON</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>587 James Street North</td>
<td>120.7</td>
<td>13</td>
</tr>
<tr>
<td></td>
<td>Hamilton ON</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>527 James Street North</td>
<td>193.4</td>
<td>27</td>
</tr>
<tr>
<td></td>
<td>Hamilton ON L8L 1J6</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**EXP - List of TSSA Expired Facilities**

A search of the EXP database, dated Current to May 2013 has found that there are 2 EXP site(s) within approximately 0.25 kilometers of the project property.

<table>
<thead>
<tr>
<th>Site</th>
<th>Address</th>
<th>Distance m</th>
<th>Map Key</th>
</tr>
</thead>
<tbody>
<tr>
<td>NATIONAL PETROLEUM</td>
<td>605 JAMES ST N PIER #25</td>
<td>115.8</td>
<td>15</td>
</tr>
<tr>
<td>PRODUCTS CORPORATION</td>
<td>HAMILTON ON L8L 1J9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NATIONAL PETROLEUM</td>
<td>605 JAMES ST N PIER #25</td>
<td>115.8</td>
<td>15</td>
</tr>
<tr>
<td>PRODUCTS CORPORATION</td>
<td>HAMILTON ON</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**FST - Fuel Storage Tank**

A search of the FST database, dated 2010-May 2013 has found that there are 3 FST site(s) within approximately 0.25 kilometers of the project property.

<table>
<thead>
<tr>
<th>Site</th>
<th>Address</th>
<th>Distance m</th>
<th>Map Key</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAMILTON PORT AUTHORITY</td>
<td>1 GUISE ST @ THE FOOT OF JAMES</td>
<td>105.1</td>
<td>16</td>
</tr>
<tr>
<td></td>
<td>ST N HAMILTON ON L8L 8C5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HAMILTON PORT AUTHORITY</td>
<td>1 GUISE ST @ THE FOOT OF JAMES</td>
<td>105.1</td>
<td>16</td>
</tr>
<tr>
<td></td>
<td>ST N HAMILTON ON L8L 8C5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HAMILTON PORT AUTHORITY</td>
<td>1 GUISE ST @ THE FOOT OF JAMES</td>
<td>105.1</td>
<td>16</td>
</tr>
<tr>
<td></td>
<td>ST N HAMILTON ON L8L 8C5</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**FSTH - Fuel Storage Tank - Historic**

A search of the FSTH database, dated Pre-Jan 2010* has found that there are 3 FSTH site(s) within approximately 0.25 kilometers of the project property.

<table>
<thead>
<tr>
<th>Site</th>
<th>Address</th>
<th>Distance m</th>
<th>Map Key</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCELORMITTAL DOFASCO INC</td>
<td>GATE 10 BURLINGTON ST E HAMILTON ON</td>
<td>14.6</td>
<td>3</td>
</tr>
<tr>
<td>ARCELORMITTAL DOFASCO INC</td>
<td>GATE 10 BURLINGTON ST E HAMILTON ON</td>
<td>14.6</td>
<td>3</td>
</tr>
<tr>
<td>HAMILTON PORT AUTHORITY</td>
<td>1 GUISE ST @ THE FOOT OF JAMES ST N HAMILTON ON</td>
<td>105.1</td>
<td>16</td>
</tr>
</tbody>
</table>

**GEN - Ontario Regulation 347 Waste Generators Summary**

A search of the GEN database, dated 1986-Apr 2014 has found that there are 18 GEN site(s) within approximately 0.25 kilometers of the project property.

<table>
<thead>
<tr>
<th>Site</th>
<th>Address</th>
<th>Distance m</th>
<th>Map Key</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Royal Hamilton Yacht Club</td>
<td>Foot of MacNab St North Hamilton ON</td>
<td>10.3</td>
<td>6</td>
</tr>
<tr>
<td>The Royal Hamilton Yacht Club</td>
<td>Foot of MacNab St North Hamilton ON</td>
<td>10.3</td>
<td>6</td>
</tr>
<tr>
<td>CM PRINTING (OUT OF BUS) 10-369</td>
<td>68 BURLINGTON STREET EAST HAMILTON ON L8L 4G6</td>
<td>42.2</td>
<td>8</td>
</tr>
<tr>
<td>CM PRINTING (OUT OF BUS) 10-369</td>
<td>68 BURLINGTON STREET EAST HAMILTON ON L8L 4G6</td>
<td>42.2</td>
<td>8</td>
</tr>
<tr>
<td>CM PRINTING</td>
<td>68 BURLINGTON STREET EAST HAMILTON ON L8L 4G6</td>
<td>42.2</td>
<td>8</td>
</tr>
<tr>
<td>Petro-Canada</td>
<td>587 James Street Hamilton ON</td>
<td>110.7</td>
<td>11</td>
</tr>
<tr>
<td>HAMILTON PORT AUTHORITY</td>
<td>605 JAMES ST. N. HAMILTON ON L8L 1K1</td>
<td>115.8</td>
<td>15</td>
</tr>
<tr>
<td>HAMILTON HARBOUR COMMISSIONERS,THE</td>
<td>HARBOUR COMMISSION PROPERTY 605 JAMES ST. NORTH HAMILTON ON L8L 1K1</td>
<td>115.8</td>
<td>15</td>
</tr>
<tr>
<td>HAMILTON HARBOUR COMMISSIONERS,THE</td>
<td>HARBOUR COMMISSION PROPERTY 605 JAMES STREET NORTH HAMILTON ON L8L 1K1</td>
<td>115.8</td>
<td>15</td>
</tr>
<tr>
<td>HAMILTON HARBOUR COMMISSIONERS,THE19-558</td>
<td>HARBOUR COMMISSION PROPERTY 605 JAMES ST. NORTH HAMILTON ON L8L 1K1</td>
<td>115.8</td>
<td>15</td>
</tr>
<tr>
<td>Hamilton Port Authority</td>
<td>1 Guise Street Hamilton ON</td>
<td>105.1</td>
<td>16</td>
</tr>
<tr>
<td>Hamilton Port Authority</td>
<td>1 Guise Street Hamilton ON L8L 8B4</td>
<td>105.1</td>
<td>16</td>
</tr>
<tr>
<td>Hamilton Marine Services Inc.</td>
<td>1 Guise Street Shed #4 Hamilton ON L8L 8B4</td>
<td>105.1</td>
<td>16</td>
</tr>
<tr>
<td>Hamilton Port Authority</td>
<td>1 Guise Street Hamilton ON</td>
<td>105.1</td>
<td>16</td>
</tr>
<tr>
<td>Site</td>
<td>Address</td>
<td>Distance m</td>
<td>Map Key</td>
</tr>
<tr>
<td>---------------------------</td>
<td>-------------------------------------</td>
<td>------------</td>
<td>---------</td>
</tr>
<tr>
<td>Hamilton Port Authority</td>
<td>1 Guise Street, Hamilton ON L8L 8B4</td>
<td>105.1</td>
<td>16</td>
</tr>
<tr>
<td>Hamilton Port Authority</td>
<td>1 Guise Street, Hamilton ON L8L 8B4</td>
<td>105.1</td>
<td>16</td>
</tr>
<tr>
<td>Hamilton Port Authority</td>
<td>1 Guise Street, Hamilton ON</td>
<td>105.1</td>
<td>16</td>
</tr>
<tr>
<td>Waveline Marine</td>
<td>31 Guise Street, Hamilton ON L8L 8B4</td>
<td>139.8</td>
<td>22</td>
</tr>
</tbody>
</table>

PRT - Private and Retail Fuel Storage Tanks

A search of the PRT database, dated 1989-1996* has found that there are 1 PRT site(s) within approximately 0.25 kilometers of the project property.

<table>
<thead>
<tr>
<th>Site</th>
<th>Address</th>
<th>Distance m</th>
<th>Map Key</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAMILTON HARBOUR COMM</td>
<td>FOOT OF JAMES ST N, HAMILTON, ON L8L</td>
<td>155.7</td>
<td>23</td>
</tr>
</tbody>
</table>

RSC - Record of Site Condition

A search of the RSC database, dated 1997-Sept 2001, Oct 2004-Aug 2014 has found that there are 1 RSC site(s) within approximately 0.25 kilometers of the project property.

<table>
<thead>
<tr>
<th>Site</th>
<th>Address</th>
<th>Distance m</th>
<th>Map Key</th>
</tr>
</thead>
<tbody>
<tr>
<td>66 Hamwellington Holdings Inc.</td>
<td>587 JAMES ST N, HAMILTON, ON, L8L 1K1</td>
<td>120.7</td>
<td>13</td>
</tr>
</tbody>
</table>

RST - Retail Fuel Storage Tanks

A search of the RST database, dated 1999-Jul 2014 has found that there are 3 RST site(s) within approximately 0.25 kilometers of the project property.

<table>
<thead>
<tr>
<th>Site</th>
<th>Address</th>
<th>Distance m</th>
<th>Map Key</th>
</tr>
</thead>
<tbody>
<tr>
<td>ROYAL HAMILTON YACHT CLUB</td>
<td>FOOT OF MACNAB N, HAMILTON ON L8L1H1</td>
<td>10.3</td>
<td>6</td>
</tr>
<tr>
<td>HAMILTON PORT AUTHORITY</td>
<td>605 JAMES N, HAMILTON ON L8L1J9</td>
<td>115.8</td>
<td>15</td>
</tr>
<tr>
<td>HAMILTON PORT AUTHORITY</td>
<td>605 JAMES ST N, HAMILTON ON L8L1J9</td>
<td>115.8</td>
<td>15</td>
</tr>
</tbody>
</table>

SCT - Scott's Manufacturing Directory

A search of the SCT database, dated 1992-Mar 2011 has found that there are 3 SCT site(s) within approximately 0.25 kilometers of the project property.
<table>
<thead>
<tr>
<th>Site</th>
<th>Address</th>
<th>Distance m</th>
<th>Map Key</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rankin Construction Inc.</td>
<td>605 James St N Floor 3 Hamilton ON L8L 1J9</td>
<td>115.8</td>
<td>15</td>
</tr>
<tr>
<td>BAY SAILS/HAARSTICK</td>
<td>469 BAY ST N HAMILTON ON L8L 1N2</td>
<td>186.8</td>
<td>26</td>
</tr>
<tr>
<td>Perc. W. Brusey &amp; Sons Ltd.</td>
<td>497 Hughson St N Hamilton ON L8L 4N8</td>
<td>226.2</td>
<td>28</td>
</tr>
</tbody>
</table>

**SPL - Ontario Spills**

A search of the SPL database, dated 1988-Feb 2014 has found that there are 8 SPL site(s) within approximately 0.25 kilometers of the project property.

<table>
<thead>
<tr>
<th>Site</th>
<th>Address</th>
<th>Distance m</th>
<th>Map Key</th>
</tr>
</thead>
<tbody>
<tr>
<td>Royal Hamilton Yacht Club</td>
<td>555 Bay St N Hamilton ON</td>
<td>77.6</td>
<td>10</td>
</tr>
<tr>
<td>PETRO-CANADA</td>
<td>587 JAMES ST. NORTH. SERVICE STATION HAMILTON CITY ON L8L 1J8 Across from 605 James Street Hamilton ON</td>
<td>110.7</td>
<td>11</td>
</tr>
<tr>
<td>HAMILTON HYDRO &amp; ENGINEERING D</td>
<td>574 JAMES ST. W. TRANSFORMER HAMILTON CITY ON intersection of Woods St. West and James St. North Hamilton ON intersection of Burlington Street West and Bay Street North Hamilton ON</td>
<td>149.7</td>
<td>18</td>
</tr>
<tr>
<td>Unknown&lt;UNOFFICIAL&gt;</td>
<td>intersection of Hughson St N and Burlington St E Hamilton ON</td>
<td>247.3</td>
<td>31</td>
</tr>
<tr>
<td>PUC</td>
<td>POLE TRANSFORMER ON THE EAST SIDE OF JAMES ST., 2ND POLE SOUTH OF MACAULAY TRANSFORMER HAMILTON CITY ON</td>
<td>241.3</td>
<td>32</td>
</tr>
</tbody>
</table>
Aerial

Address: 52 Burlington St W Hamilton On, Hamilton, ON

Source: ESRI World Imagery, Updated October 2014

Order No: 20141003065

© Ecolog ERIS Ltd
## Detail Report

<table>
<thead>
<tr>
<th>Map Key</th>
<th>Number of Records</th>
<th>Direction/Distance m</th>
<th>Elevation m</th>
<th>Site</th>
<th>DB</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1 of 1</td>
<td>ESE/8.5</td>
<td>74.8</td>
<td>ON</td>
<td></td>
</tr>
</tbody>
</table>

Borehole ID: 624701
Use: Geotechnical/Geological Investigation
Drill Method: Power auger
Easting: 592214.000
Location Accuracy: elev. reliability note
Elev. Reliability Note: Total Depth m: 11.200000
Township: Lot: Completion Date: 1969-MAR
Primary Water Use: Not Used

--- Details ---

Stratum ID: 218435070
Top Depth m: 0
Bottom Depth m: 1.900000
Stratum Desc: FILL, SAND, SILT, WOOD, BROWN, MAN-MADE, AGE POST-GLACIAL.

+ Stratum ID: 218435071
Top Depth m: 1.900000
Bottom Depth m: 8.200000
Stratum Desc: SAND, SILT, BROWN, COMPACT, AGE GLACIAL.

+ Stratum ID: 218435072
Top Depth m: 8.200000
Bottom Depth m: 11.200000
Stratum Desc: SILT, CLAY, GREEN, COMPACT, AGE GLACIAL. 019 018 014 0006302500270023

<table>
<thead>
<tr>
<th>2</th>
<th>1 of 1</th>
<th>NNW/4.4</th>
<th>74.8</th>
<th>Leander Drive &amp; Guise Street Hamilton ON</th>
<th>EHS</th>
</tr>
</thead>
</table>

Order No.: 20021029011
Report Date: 11/21/02
Report Type: Custom Report
Search Radius (km): 1.20
Addit. Info Ordered: Fire Insur. Maps and/or Site Plans and/or Inspection Reports

<table>
<thead>
<tr>
<th>3</th>
<th>1 of 2</th>
<th>SE/14.6</th>
<th>74.8</th>
<th>ARCELORMITTAL DOFASCO INC Gate 10 Burlington St E Hamilton ON</th>
<th>FSTH</th>
</tr>
</thead>
</table>

License Issue Date: 1/1/1991
Tank Status: Licensed
Tank Status As Of: December 2008
Operation Type: Private Fuel Outlet
Facility Type: Gasoline Station - Self Serve
<table>
<thead>
<tr>
<th>Map Key</th>
<th>Number of Records</th>
<th>Direction/ Distance m</th>
<th>Elevation m</th>
<th>Site</th>
<th>DB</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>2 of 2</td>
<td>SE/14.6</td>
<td>74.8</td>
<td>ARCELORMITTAL DOFASCO INC GATE 10 BURLINGTON ST E HAMILTON ON</td>
<td>FSTH</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>License Issue Date: 1/11/1991</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Tank Status: Licensed</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Tank Status As Of: December 2008</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Operation Type: Private Fuel Outlet</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Facility Type: Gasoline Station - Self Serve</td>
<td></td>
</tr>
</tbody>
</table>

|        | 4 of 1            | ENE/19.7              | 74.8        | ON | BORE |
| Borehole ID: | 625616         |                       |             | Type: Borehole |     |
| Use:         | Geotechnical/Geological Investigation |       |             | Status: |     |
| Drill Method: | Power auger     |                       |             | UTM Zone: | 17 |
| Easting:     | 592234.000      |                       |             | Northing: | 4791773.000 |
| Location Accuracy: |             |                       |             | Orig. Ground Elev m: | 85.300003 |
| Elev. Reliability Note: |  |                       |             | DEM Ground Elev m: | 83.400002 |
| Total Depth m: | 7.600000      |                       |             | Primary Name: |     |
| Township:    |               |                       |             | Concession: |     |
| Lot:         |               |                       |             | Municipality: |     |
| Completion Date: | 1966-MAY   |                       |             | Static Water Level: | 0.500000 |
| Primary Water Use: | Not Used |                       |             | Sec. Water Use: |     |

--- Details ---

| Stratum ID: | 218437367 | Top Depth m: | 0 |
| Bottom Depth m: | 3.300000 | Stratum Desc: | FILL,SAND,SILT, BROWN,LACUSTRINE,COMPACT. |
| + | Stratum ID: | 218437368 | Top Depth m: | 3.300000 |
| Bottom Depth m: | 6.800000 | Stratum Desc: | SAND-MEDIUM,SILT. BROWN,VERY DENSE,STIFF, AGE QUATERNARY, WATER STABLE AT 278.1 FEET. |
| + | Stratum ID: | 218437369 | Top Depth m: | 6.800000 |
| Bottom Depth m: | 7.600000 | Stratum Desc: | SILT,CLAY. GREEN,VERY DENSE, AGE QUATERNARY. 000000100010908000224040 |

|        | 5 of 1            | SSE/10.3              | 74.8        | ON | BORE |
| Borehole ID: | 621855          |                       |             | Type: Borehole |     |
| Use:         | Geotechnical/Geological Investigation |       |             | Status: |     |
| Drill Method: | Diamond Drill   |                       |             | UTM Zone: | 17 |
| Easting:     | 592204.000      |                       |             | Northing: | 4791703.000 |
| Location Accuracy: |             |                       |             | Orig. Ground Elev m: | 85.300003 |
| Elev. Reliability Note: |  |                       |             | DEM Ground Elev m: | 85.099998 |
| Total Depth m: | 11.100000 |             |             | Primary Name: |     |
| Township:    |               |                       |             | Concession: |     |
| Lot:         |               |                       |             | Municipality: |     |
| Completion Date: | 1969-MAR |             |             | Static Water Level: |     |
| Primary Water Use: | Not Used |             |             | Sec. Water Use: |     |

--- Details ---
| Stratum ID: | 218422881 | Top Depth m: | 0 |
| Bottom Depth m: | 1.900000 | Stratum Desc: | FILL,SAND,SILT,WOOD,BLACK,MAN-MADE,RUBBLY, AGE POST-GlacIAL. |
| + | | Top Depth m: | 1.900000 |
| Stratum ID: | 218422882 | Stratum Desc: | SAND-MEDIUM, BROWN,COMPACT,GRANULAR, AGE GLACIAL. |
| Bottom Depth m: | 8.200000 | | |
| + | | Top Depth m: | 8.200000 |
| Stratum ID: | 218422883 | Stratum Desc: | SILT,CLAY, GREEN,COMPACT,UNIFORM, AGE GLACIAL. 014 020 01301502100063028 |
| Bottom Depth m: | 11.100000 | | |

6 1 of 3 NE/10.3 74.8 The Royal Hamilton Yacht Club Foot of MacNab St North Hamilton ON

Generator #: ON4709817
Approval Yrs: 06,07,08
SIC Code: 913910
SIC Description: Other Local Municipal and Regional Public Administ

--- Details ---
Waste Code: 253
Waste Description: EMULSIFIED OILS

6 2 of 3 NE/10.3 74.8 The Royal Hamilton Yacht Club Foot of MacNab St North Hamilton ON

Generator #: ON4709817
Approval Yrs: 2009
SIC Code: 913910
SIC Description: Other Local Municipal and Regional Public Administration

--- Details ---
Waste Code: 253
Waste Description: EMULSIFIED OILS

6 3 of 3 NE/10.3 74.8 ROYAL HAMILTON YACHT CLUB FOOT OF MACNAB N HAMILTON ON L8L1H1

Facility: MARINAS
Description: 

7 1 of 1 ENE/23.9 74.8 ON

Borehole ID: 625619
Type: Borehole
Use: 
Status: 
Drill Method: 
Easting: 592244.000
Location Accuracy: 
UTM Zone: 17
Northing: 4791793.000
Orig. Ground Elev m: 85
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<th>DB</th>
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<td>Total Depth m:</td>
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--- Details ---

| Stratum ID: | 218437374 | Top Depth m: | 0 | | |
| Bottom Depth m: | 4.100000 | Stratum Desc: | SILT, CLAY, SAND, GRAVEL, BROWN, DENSE, AGE QUATERNARY. | | |

+ | | | | | |
| Stratum ID: | 218437375 | Top Depth m: | 4.100000 | | |
| Bottom Depth m: | 7.300000 | Stratum Desc: | SAND-FINE TO MEDIUM, SILT, DENSE, AGE QUATERNARY, WATER STABLE AT 277.4 FEET. | | |

+ | | | | | |
| Stratum ID: | 218437376 | Top Depth m: | 7.300000 | | |
| Bottom Depth m: | 12.500000 | Stratum Desc: | SILT, CLAY, DENSE, AGE QUATERNARY. | | |

--- Details ---

Generator #: ON1074500
Approval Yrs: 88, 89
SIC Code: 2811
SIC Description: BUSINESS FORMS PRINT

--- Details ---

Waste Code: 264
Waste Description: PHOTOPROCESSING WASTES

--- Details ---

Generator #: ON1074500
Approval Yrs: 90
SIC Code: 2811
SIC Description: BUSINESS FORMS PRINT

--- Details ---

Waste Code: 264
Waste Description: PHOTOPROCESSING WASTES

--- Details ---

Generator #: ON1074500
Approval Yrs: 92, 93, 94, 95, 96, 97, 98
SIC Code: 2811
SIC Description: BUSINESS FORMS PRINT

--- Details ---

Waste Code: 264
Waste Description: PHOTOPROCESSING WASTES
**Map Key** | **Number of Records** | **Direction/Distance m** | **Elevation m** | **Site** | **DB**
--- | --- | --- | --- | --- | ---
9 | 1 of 1 | NE/48.1 | 74.8 | ON | BORE

**Borehole ID:** 625623  
**Use:** Geotechnical/Geological Investigation  
**Drill Method:** Power auger  
**Easting:** 592264.000  
**Location Accuracy:**  
**Elev. Reliability Note:**  
**Total Depth m:** 7  
**Township:**  
**Lot:**  
**Completion Date:** 1966-MAY  
**Type:** Borehole  
**UTM Zone:** 17  
**Or. Ground Elev m:** 84.400002  
**DEM Ground Elev m:** 78.900002  
**Primary Name:**  
**Concession:**  
**Municipality:**  
**Static Water Level:** 0.500000  
**Sec. Water Use:**  

--- Details ---

**Stratum ID:** 218437390  
**Top Depth m:** 0  
**Stratum Desc:** FILL, SAND, GRAVEL, SILT.

+  
**Stratum ID:** 218437391  
**Top Depth m:** 4  
**Stratum Desc:** SAND, SILT, CLAY, BROWN, COMPACT, AGE QUATERNARY, WATER STABLE AT 275.3 FEET.

+  
**Stratum ID:** 218437392  
**Top Depth m:** 4.100000  
**Stratum Desc:** SAND-MEDIUM, SILT, BROWN, VERY DENSE, STRATIFIED, AGE QUATERNARY.

+  
**Stratum ID:** 218437393  
**Top Depth m:** 6.600000  
**Stratum Desc:** SILT, SAND-MEDIUM, GREEN, AGE QUATERNARY.

---

**Ref No.:** 4038-97W3AT  
**Incident Dt:** 20-MAY-13  
**MOE Reported Dt:** 20-MAY-13  
**Contaminant Name:** SEWAGE, RAW UNCHLORINATED  
**Contaminant Quantity:** 0 other - see incident description  
**Incident Summary:** RoyHamYachtClub: communal bathroom sewage leak to L.Ont  
**Incident Cause:** Leak/Break  
**Incident Reason:** Material Failure & Poor Design/Substandard Material  
**Nature of Impact:** Surface Water Pollution  
**Receiving Medium:**  
**Environmental Impact:** Confirmed

---

**Ref No.:** 4038-97W3AT  
**Incident Dt:** 20-MAY-13  
**MOE Reported Dt:** 20-MAY-13  
**Contaminant Name:** SEWAGE, RAW UNCHLORINATED  
**Contaminant Quantity:** 0 other - see incident description  
**Incident Summary:** RoyHamYachtClub: communal bathroom sewage leak to L.Ont  
**Incident Cause:** Leak/Break  
**Incident Reason:** Material Failure & Poor Design/Substandard Material  
**Nature of Impact:** Surface Water Pollution  
**Receiving Medium:**  
**Environmental Impact:** Confirmed
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<th>Approval Yrs:</th>
<th>03,04,05,06</th>
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<td>SIC Description:</td>
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--- Details ---

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<tbody>
<tr>
<td>Waste Description:</td>
<td>LIGHT FUELS</td>
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### Site: PETRO-CANADA
587 JAMES ST. NORTH. SERVICE STATION
HAMILTON CITY ON L8L 1J8

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<th>106676</th>
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<td>MOE Reported Dt:</td>
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<td>Contaminant Name:</td>
<td>PETRO-CANADA-13 CM PETRO-LEUM PRODUCT IN MONITORING WELL AT OLD S.S.</td>
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### Borehole 1 of 1

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<td>Primary Water Use:</td>
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<td>FILL. MAN-MADE, AGE POST-GLACIAL.</td>
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<tbody>
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<td>Bottom Depth m:</td>
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+ | Stratum ID: | 218422886 |
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Instance ID: 14562  
TSSA Program Area:  
Maximum Hazard Rank:  
Instance Number: 10252241  
Instance Type: FS Facility  
Status: EXPIRED  
Description: FS Bulk Plant (Large)

| 15      | 2 of 10           | E/115.8              | 74.8        | NATIONAL PETROLEUM PRODUCTS CORPORATION 605 JAMES ST N PIER #25 HAMILTON ON L8L 1J9 | EXP |

Instance ID:  
TSSA Program Area:  
Maximum Hazard Rank: 11576584  
Instance Number:  
Instance Type: FS Liquid Fuel Tank  
Status: EXPIRED  
Description:  

| 15      | 3 of 10           | E/115.8              | 74.8        | HAMILTON HARBOUR COMMISSIONERS, THE 19-558 HARBOUR COMMISSION PROPERTY 605 JAMES ST. NORTH HAMILTON ON L8L 1K1 | GEN |

Generator #: ON1428600  
Approval Yrs: 94,95,96  
SIC Code: 4552  
SIC Description: HARBOUR & PORT OPER.  
--- Details ---  
Waste Code: 221  
Waste Description: LIGHT FUELS  
+  
Waste Code: 252  
Waste Description: WASTE OILS & LUBRICANTS

| 15      | 4 of 10           | E/115.8              | 74.8        | HAMILTON HARBOUR COMMISSIONERS, THE HARBOUR COMMISSION PROPERTY 605 JAMES STREET NORTH HAMILTON ON L8L 1K1 | GEN |

Generator #: ON1428600  
Approval Yrs: 99,00,01  
SIC Code: 4552  
SIC Description: HARBOUR & PORT OPER.
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--- Details ---

Waste Code: 221
Waste Description: LIGHT FUELS

+ Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS
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Established: Plant Size (ft²): Employment:

--- Details ---

SIC/NAICS Code: 237310
Description: Highway, Street and Bridge Construction

SIC/NAICS Code: 237110
Description: Water and Sewer Line and Related Structures Construction

SIC/NAICS Code: 532410
Description: Construction, Transportation, Mining, and Forestry Machinery and Equipment Rental and Leasing

SIC/NAICS Code: 541330
Description: Engineering Services

SIC/NAICS Code: 237990
Description: Other Heavy and Civil Engineering Construction

SIC/NAICS Code: 532490
Description: Other Commercial and Industrial Machinery and Equipment Rental and Leasing

SIC/NAICS Code: 324121
Description: Asphalt Paving Mixture and Block Manufacturing

---

15 10 of 10 E/115.8 74.8 Across from 605 James Street Hamilton ON

Ref No.: 7352-7TFSU9
Incident Dt: 6/28/2009
Contaminant Name: OIL (PETROLEUM BASED, NOT SPECIFIED)
Contaminant Quantity: Incrident Summary: Hamilton Harbour: Oil slick by Harbour Queen
Incident Cause: Unknown
Incident Reason: Nature of Impact: Surface Water Pollution
Receiving Medium:
Environmental Impact: Confirmed

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16 1 of 11 NE/105.1 74.8 HAMILTON PORT AUTHORITY 1 GUISE ST @ THE FOOT OF JAMES ST N HAMILTON ON L8L 8C5

Instance Number: 10777265
Cont Name: Simon Chen
Instance Type: FS Liquid Fuel Tank
Fuel Type: Gasoline
Status: Active
Capacity: 13500
Tank Material: Steel
Corrosion Protection: Sacrificial anode
Tank Type: Double Wall UST
Install Year: 1988
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### Map Key
- **Number of Records**: 16
- **Direction**: NE/105.1
- **Elevation**: 74.8
- **Site**: Hamilton Port Authority
  - Generator #: ON7699814
  - Approval Yrs: As of April 2014

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--- Details ---
- **Waste Code**: 148
  - **Waste Description**: Misc. wastes and inorganic chemicals
- **Waste Code**: 252
  - **Waste Description**: Waste crankcase oils and lubricants
- **Waste Code**: 145
  - **Waste Description**: Wastes from the use of pigments, coatings and paints
- **Waste Code**: 212
  - **Waste Description**: Aliphatic solvents and residues
- **Waste Code**: 213
  - **Waste Description**: Petroleum distillates
- **Waste Code**: 331
  - **Waste Description**: Waste compressed gases including cylinders

--- Details ---
- **Waste Code**: 252
  - **Waste Description**: Waste oils & lubricants
- **Waste Code**: 213
  - **Waste Description**: Petroleum distillates
- **Waste Code**: 331
  - **Waste Description**: Waste compressed gases

--- Details ---
- **Waste Code**: 213
  - **Waste Description**: Petroleum distillates
- **Waste Code**: 331
  - **Waste Description**: Waste compressed gases including cylinders

--- Details ---
- **Waste Code**: 148
  - **Waste Description**: INORGANIC LABORATORY CHEMICALS
- **Waste Code**: 212
  - **Waste Description**: ALIPHATIC SOLVENTS
- **Waste Code**: 331
  - **Waste Description**: WASTE COMPRESSED GASES

--- Details ---
- **Waste Code**: 212
  - **Waste Description**: Aliphatic solvents and residues
- **Waste Code**: 213
  - **Waste Description**: Petroleum distillates
- **Waste Code**: 331
  - **Waste Description**: Waste compressed gases including cylinders
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**16** 8 of 11  NE/105.1  74.8  Hamilton Port Authority
1 Guise Street
Hamilton ON

Generator #: ON7699814
Approval Yrs: 2011
SIC Code: 488310
SIC Description: Port and Harbour Operations

--- Details ---

Waste Code: 148
Waste Description: INORGANIC LABORATORY CHEMICALS

--- Details ---

**16** 9 of 11  NE/105.1  74.8  Hamilton Port Authority
1 Guise Street
Hamilton ON

Generator #: ON7699814
Approval Yrs: 2009
SIC Code: 488310
SIC Description: Port and Harbour Operations

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Waste Code: 145
Waste Description: PAINT/PIGMENT/COATING RESIDUES
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**10 of 11**

**1 of 1**

**16**

**11 of 11**

**1 of 1**

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**11 of 11**

**1 of 1**

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**Easting:**
- Township: Concession: Lot: Completion Date: Primary Water Use: 

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- Stratum Desc: CONCRETE. MAN-MADE, AGE POST-GLACIAL.

**Stratum ID:**
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- Stratum Desc: FILL. MAN-MADE, AGE POST-GLACIAL.

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- Top Depth m: 0.300000
- Stratum Desc: SAND-MEDIUM, SILT. BROWN, DENSE, AGE GLACIAL.

**Stratum ID:**
- Top Depth m: 2.700000
- Stratum Desc: SAND, SILT, BROWN, VERY DENSE, AGE GLACIAL.

**Stratum ID:**
- Top Depth m: 5.800000
- Stratum Desc: SILT, SAND, CLAY. BROWN, VERY DENSE, AGE GLACIAL. 015 014 016 000100050

--- End of Details ---

**Ref No.:**
- 84453

**Incident Dt:**
- 4/23/1993

**MOE Reported Dt:**
- 4/23/1993

**Contaminant Name:**
- HAMILTON HYDRO - 2 L OF TRANSFORMER OIL TO PAVEMENT

**Incident Cause:**
- COOLING SYSTEM LEAK

**Incident Reason:**
- GASKET/JOINT

**Nature of Impact:**
- Soil contamination

**Receiving Medium:**
- LAND

**Environmental Impact:**
- CONFIRMED

--- End of Details ---

**Borehole ID:**
- 625618

**Use:**
- Geotechnical/Geological Investigation

**Drill Method:**
- Power auger

**Easting:**
- 592364.000

**Location Accuracy:**
- Elev. Reliability Note:

--- Details ---

**Stratum ID:**
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- Stratum Desc: CONCRETE. MAN-MADE, AGE POST-GLACIAL.

**Stratum ID:**
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- Stratum Desc: SAND-MEDIUM, SILT. BROWN, DENSE, AGE GLACIAL.

**Stratum ID:**
- Top Depth m: 2.700000
- Stratum Desc: SAND, SILT, BROWN, VERY DENSE, AGE GLACIAL.

**Stratum ID:**
- Top Depth m: 5.800000
- Stratum Desc: SILT, SAND, CLAY. BROWN, VERY DENSE, AGE GLACIAL. 015 014 016 000100050

--- End of Details ---

**Ref No.:**
- 84453

**Incident Dt:**
- 4/23/1993

**MOE Reported Dt:**
- 4/23/1993

**Contaminant Name:**
- HAMILTON HYDRO - 2 L OF TRANSFORMER OIL TO PAVEMENT

**Incident Cause:**
- COOLING SYSTEM LEAK

**Incident Reason:**
- GASKET/JOINT

**Nature of Impact:**
- Soil contamination

**Receiving Medium:**
- LAND

**Environmental Impact:**
- CONFIRMED

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### 23
1 of 1
ENE/155.7  74.8 HAMILTON HARBOUR COMM FOOT OF JAMES ST N HAMILTON ON

| Location ID: | 5905 | Type: | retail | Expiry Date: | 1996-03-31 | Capacity (L): 31822 | Licence #: 0015660001 |

### 24
1 of 1
ENE/163.6  74.8 ON

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+ Stratum ID: 218420839
Bottom Depth m: 8.700000
Stratum Desc: SILT(67), CLAY(13), SAND(20), GREEN, DENSE, BEDDED, AGE GLACIAL.

+ Stratum ID: 218420840
Bottom Depth m: 9.900000
Stratum Desc: SILT, CLAY, GREEN, COMPACT, BEDDED, AGE GLACIAL.

--- Details ---

SIC/NAICS Code: 2394
Description: CANVAS AND RELATED PRODUCTS

+ SIC/NAICS Code: 314910
Description: Textile Bag and Canvas Mills

--- Details ---

Established: 1985
Plant Size (ft²): 0
Employment: 4

SIC/NAICS Code: 2394
Description: CANVAS AND RELATED PRODUCTS

+ SIC/NAICS Code: 314910
Description: Textile Bag and Canvas Mills

Order No.: 20030819002
Report Date: 8/27/03

Established: 1985
Plant Size (ft²): 0
Employment: 4

SIC/NAICS Code: 2394
Description: CANVAS AND RELATED PRODUCTS

+ SIC/NAICS Code: 314910
Description: Textile Bag and Canvas Mills
### Map Key | Number of Records | Direction/Distance | Elevation | Site | DB
--- | --- | --- | --- | --- | ---
| Report Type: | Basic Report | Search Radius (km): | 0.25 | | | Addit. Info Ordered: | Title Search | | | |

#### 28 1 of 1

**ESE/226.2 74.8**

**Perc. W. Brusey & Sons Ltd.**
497 Hughson St N
Hamilton ON L8L 4N8

**Established:** 01-AUG-29

**Plant Size (ft²):** 4200

**Employment:**

--- Details ---

**SIC/NAICS Code:** 332329  
**Description:** Other Ornamental and Architectural Metal Product Manufacturing

**SIC/NAICS Code:** 332329  
**Description:** Other Ornamental and Architectural Metal Product Manufacturing

**SIC/NAICS Code:** 314910  
**Description:** Textile Bag and Canvas Mills

**SIC/NAICS Code:** 314990  
**Description:** All Other Textile Product Mills

#### 29 1 of 1

**NE/205.8 74.8**

**ON**

**Borehole ID:** 624703

**Type:** Borehole  
**Status:**

**Use:** Geotechnical/Geological Investigation  
**UTM Zone:** 17

**Drill Method:** Power auger  
**Northing:** 4791923.000

**Easting:** 592394.000  
**Orig. Ground Elev m:** 76.69997

**Location Accuracy:**

**Elev. Reliability Note:**

**Total Depth m:** 5.100000  
**DEM Ground Elev m:** 74.900002

**Township:**

**Lot:**

**Completion Date:** 1969-MAR  
**Primary Name:**

**Primary Water Use:** Not Used  
**Concession:**

--- Details ---

**Stratum ID:** 218435078  
**Top Depth m:** 0  
**Stratum Desc:** SOIL. AGE POST-GLACIAL.

**Stratum ID:** 218435079  
**Top Depth m:** 0.200000  
**Stratum Desc:** FILL, SAND, SILT, STONES. BROWN, MAN-MADE, LOOSE, AGE POST-GLACIAL.

**Stratum ID:** 218435080  
**Top Depth m:** 2.700000  
**Stratum Desc:** SAND, SILT, ORGANIC. LOOSE, AGE GLACIAL.

**Stratum ID:** 218435081  
**Top Depth m:** 3.600000  
**Stratum Desc:** SAND-FINE, SILT, GREEN, LOOSE, AGE GLACIAL.
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**BORE**

**Borehole ID:** 621857  
**Use:** Geotechnical/Geological Investigation  
**Drill Method:** Diamond Drill  
**Easting:** 592414.000  
**Location Accuracy:**  
**Elev. Reliability Note:**  
**Total Depth m:** 5  
**Township:**  
**Lot:**  
**Completion Date:** 1969-MAR  
**Primary Water Use:** Not Used

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---

**SPL**

**Ref No.:** 5673-89MMJN  
**Incident Dt:** 9/25/2010  
**Contaminant Name:** FURNACE OIL  
**Contaminant Quantity:** 5 L  
**Incident Summary:** Illegal dumping of furnace oil to catchbasin, cntnd, clng  
**Incident Cause:** Unknown  
**Incident Reason:** Unknown - Reason not determined
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Les Transport<UNOFFICIAL> Burlington St E Hamilton ON
Horizon Utilities Corporation Burlington St E Hamilton ON
RENTAL COMPANY BURLINGTON ST., NEAR DOFASCO HAMILTON ON
DOFASCO INC. BURLINGTON BAY BURLINGTON STREET EAST HAMILTON ON
DOFASCO INC. HAMILTON ON
Acon Construction<UNOFFICIAL> West of Burlington Street, Hamilton ON
UNKNOWN PARKING LOT AT SOUTH WEST CORNER OF BURLINGTON ST/SHERMAN AVE. HAMILTON CITY ON
NORJOHN CONTRACTING LTD. ON BURLINGTON ST. NEAR MONTANK HAMILTON CITY ON
Dry ditch on edge of Toronto-bound QEW offramp to Burlington Street<UNOFFICIAL> HAMILTON ON
Laidlaw Carriers Tank GP Inc. Burlington Street on ramp to QEW Toronto Bound HAMILTON ON
Canada Cartage Systems Limited Burlington Street @ Sherman HAMILTON ON
Stelco Inc. Burlington St. Hamilton ON
Dofasco Inc. Burlington St Hamilton ON
PHILIP ENTERPRISES BURLINGTON STREET JUST WEST OF PARKDALE HAMILTON CITY ON
DOFASCO INC. BURLINGTON ST. HAMILTON CITY ON
CANADIAN NATIONAL RAILWAY BURLINGTON ST. HAMILTON CITY ON
DOFASCO INC. BURLINGTON ST AT DOFASCO'S GATE # 10. HAMILTON CITY ON
Along Burlington Street and into Woodward Treatment Plant HAMILTON ON
ArcelorMittal Dofasco Inc. South, Gate 15 HAMILTON ON
ArcelorMittal Dofasco Inc. Piers 20-21 Port of Hamilton HAMILTON ON
ArcelorMittal Dofasco Inc. Piers 20-21 Port of Hamilton HAMILTON ON
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</table>
Dofasco Inc. has been fined $60,000 'plus a victim fine surcharge' after being found guilty of one count under the Ontario Water Resources Act (OWRA). Dofasco Inc. is an integrated steel mill on Burlington Street East in Hamilton, Ontario. Hamilton Harbour is a habitat for both aquatic life and a number of different bird species. The court heard that an investigation by Ministry of the Environment (MOE) staff found that, on January 21, 2000, a significant amount of wash oil spilled from a company by-product mill storm sewer outfall eventually discharging into the Hamilton Harbour. The spill resulted in the deaths of more than 100 ducks, birds and waterfowl as well as numerous fish. Dofasco Inc. officials did not report the spill until approximately 3.5 hours after the oil was spotted in the boat slip. The court found that the company should have reported the spill immediately to MOE rather than delay the report while it investigated the cause of the spill. By failing to forthwith notify the minister of a discharge of wash oil into the Hamilton Harbour that may impair the quality of the water of any waters, Dofasco Inc. acted contrary to Section 30(2) under the OWRA. The company was found guilty of the single charge and was fined $60,000 plus a $15,000 victim fine surcharge, for a total fine of $75,000.
### Site: ARCELMITTL DOFASCO INC  
**GATE 10 BURLINGTON ST E HAMILTON ON**  

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| Instance Number        | 10777522                     |
| Cont Name              |                              |
| Instance Type          | FS Liquid Fuel Tank          |
| Fuel Type              | Diesel                       |
| Status                 | Active                       |
| Capacity               | 45460                        |
| Tank Material          | Steel                        |
| Corrosion Protection   | Impressed Current            |
| Tank Type              | Liquid Fuel Single Wall UST  |
| Install Year           | 1978                         |
| Expired Date           |                              |
| Parent Facility Type   | FS PRIVATE FUEL OUTLET - SELF SERVE |
| Facility Type          | FS Liquid Fuel Tank          |

### Site: ARCELMITTL DOFASCO INC  
**GATE 10 BURLINGTON ST E HAMILTON ON**  

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| Instance Number        | 10777505                     |
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| Fuel Type              | Diesel                       |
| Status                 | Active                       |
| Capacity               | 44463                        |
| Tank Material          | Steel                        |
| Corrosion Protection   | Impressed Current            |
| Tank Type              | Liquid Fuel Single Wall UST  |
| Install Year           | 1978                         |
| Expired Date           |                              |
| Parent Facility Type   | FS PRIVATE FUEL OUTLET - SELF SERVE |
| Facility Type          | FS Liquid Fuel Tank          |

### Site: ARCELMITTL DOFASCO INC  
**GATE 11 PLT 14   N HAMILTON ON**  

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| Instance Number        | 10777556                     |
| Cont Name              | IAN DARVESHALI               |
| Instance Type          | FS Liquid Fuel Tank          |
| Fuel Type              | Gasoline                     |
| Status                 | Active                       |
| Capacity               | 4546                         |
| Tank Material          | Steel                        |
| Corrosion Protection   | Sacrificial anode            |
| Tank Type              | Liquid Fuel Single Wall UST  |
| Install Year           | 1990                         |
| Expired Date           |                              |
| Parent Facility Type   | FS PRIVATE FUEL OUTLET - SELF SERVE |
| Facility Type          | FS Liquid Fuel Tank          |
| Site: ARCELORMITTAL DOFASCO INC  
| GATE 11 N OF BURLING & KENILWORTH HAMILTON ON |
| Database: FST |
| Instance Number: 10777538  
| Cont Name:  
| Instance Type: FS Liquid Fuel Tank  
| Fuel Type: Diesel  
| Status: Active  
| Capacity: 22730  
| Tank Material: Fiberglass (FRP)  
| Corrosion Protection: Fiberglass  
| Tank Type: Liquid Fuel Single Wall UST  
| Install Year: 1975  
| Expired Date:  
| Parent Facility Type: FS PRIVATE FUEL OUTLET - SELF SERVE  
| Facility Type: FS Liquid Fuel Tank |

| Site: ARCELORMITTAL DOFASCO INC  
| GATE 11 PLT 14 N HAMILTON ON |
| Database: FST |
| Instance Number: 10777574  
| Cont Name: IAN DARVESHALI  
| Instance Type: FS Liquid Fuel Tank  
| Fuel Type: Diesel  
| Status: Active  
| Capacity: 45460  
| Tank Material: Steel  
| Corrosion Protection: Sacrificial anode  
| Tank Type: Liquid Fuel Single Wall UST  
| Install Year: 1980  
| Expired Date:  
| Parent Facility Type: FS PRIVATE FUEL OUTLET - SELF SERVE  
| Facility Type: FS Liquid Fuel Tank |

| Site: REGIONAL MUNICIPALITY OF HAMILTON WENTWORTH POLICE DEPT  
| HUGHSON ST MARINE DOCK HAMILTON ON |
| Database: FST |
| Instance Number: 10777830  
| Cont Name:  
| Instance Type: FS Liquid Fuel Tank  
| Fuel Type: Gasoline  
| Status: Active  
| Capacity: 4500  
| Tank Material: Steel  
| Corrosion Protection: Impressed Current  
| Tank Type: Liquid Fuel Single Wall UST  
| Install Year: 1977  
| Expired Date:  
| Parent Facility Type: FS PRIVATE FUEL OUTLET - SELF SERVE  
| Facility Type: FS Liquid Fuel Tank |

| Site: ARCELORMITTAL DOFASCO INC  
| GTE 11 N OF BURLINGTON & KENILWORTH A HAMILTON ON |
| Database: FST |
| Instance Number: 10780059  
| Cont Name: CHRIS ALMAS X5214  
| Instance Type: FS Liquid Fuel Tank  
| Instance Type:  

erisinfo.com | EcoLog ERIS Ltd.  
Order #: 20141003065  
Hamilton Waterfront Trust - Bayview Park 52 Burlington St W Hamilton On Hamilton ON
### REGIONAL MUNICIPALITY OF HAMILTON WENTWORTH POLICE DEPT
#### HUGHSON ST HAMILTON ON

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#### HUGHSON ST HAMILTON ON

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### ARCELORMITTAL DOFASCO INC
#### GATE 11 N OF BURLING HAMILTON ON

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<th>Field</th>
<th>Value</th>
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<tbody>
<tr>
<td>License Issue Date</td>
<td>1/11/1991</td>
</tr>
<tr>
<td>Tank Status</td>
<td>Licensed</td>
</tr>
<tr>
<td>Tank Status As Of</td>
<td>December 2008</td>
</tr>
<tr>
<td>Operation Type</td>
<td>Private Fuel Outlet</td>
</tr>
<tr>
<td>Facility Type</td>
<td>Gasoline Station - Self Serve</td>
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</tbody>
</table>

### DOFASCO INC
#### GATE 10 BURLINGTON ST E HAMILTON ON

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
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<tr>
<td>Tank Status</td>
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<tr>
<td>Tank Status As Of</td>
<td>August 2007</td>
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<td>Operation Type</td>
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### ARCELORMITTAL DOFASCO INC
#### GTE10 BURLINGTON ST E HAMILTON ON

<table>
<thead>
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<th>Field</th>
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<tbody>
<tr>
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<tr>
<td>Operation Type</td>
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<td>Facility Type</td>
<td>Gasoline Station - Self Serve</td>
</tr>
<tr>
<td>Site: DOFASCO INC</td>
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<tr>
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<tr>
<td>Facility Type: Gasoline Station - Self Serve</td>
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<tbody>
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<tr>
<td>License Issue Date: 1/17/1991</td>
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<tr>
<td>Tank Status: Licensed</td>
</tr>
<tr>
<td>Tank Status As Of: August 2007</td>
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<tr>
<td>Facility Type: Gasoline Station - Self Serve</td>
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<tr>
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<tr>
<td>License Issue Date: 1/17/1991</td>
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<tr>
<td>Tank Status: Licensed</td>
</tr>
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<tr>
<td>Facility Type: Gasoline Station - Self Serve</td>
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<tr>
<td>Generator #:</td>
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</tr>
<tr>
<td>SIC Code:</td>
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<td>SIC Description:</td>
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--- Details ---
| Waste Code: | 143 |
| Waste Description: | STEEL MAKING RESIDUES |

<table>
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<tbody>
<tr>
<td></td>
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--- Details ---
| Waste Code: | 143 |
| Waste Description: | STEEL MAKING RESIDUES |

--- Details ---
| Waste Code: | 213 |
| Waste Description: | PETROLEUM DISTILLATES |
| + | Waste Code: | 252 |
| Waste Description: | WASTE OILS & LUBRICANTS |

--- Details ---
| Waste Code: | 253 |
| Waste Description: | EMULSIFIED OILS |

--- Details ---
| Waste Code: | 143 |
| Waste Description: | STEEL MAKING RESIDUES |

--- Details ---
| Waste Code: | 252 |
| Waste Description: | WASTE OILS & LUBRICANTS |

--- Details ---
| Waste Code: | 213 |
| Waste Description: | PETROLEUM DISTILLATES |

--- Details ---
| Waste Code: | 253 |
| Waste Description: | EMULSIFIED OILS |

--- Details ---
<p>| Waste Code: | 143 |
| Waste Description: | STEEL MAKING RESIDUES |</p>
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<thead>
<tr>
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<tbody>
<tr>
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<tr>
<td>Approval Yrs:</td>
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<td>--- Details ---</td>
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<tr>
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<tr>
<td>Waste Description:</td>
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<td>+</td>
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<td>Waste Code:</td>
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<tr>
<td>Waste Description:</td>
<td>Waste crankcase oils and lubricants</td>
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<table>
<thead>
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<th>Site:</th>
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<td>--- Details ---</td>
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<tr>
<td>Waste Description:</td>
<td>ALIPHATIC SOLVENTS</td>
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<td>Waste Description:</td>
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<td>Waste Description:</td>
<td>WASTE OILS &amp; LUBRICANTS</td>
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<table>
<thead>
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<tbody>
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<td>Other Support Activities for Road Transportation</td>
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<td>--- Details ---</td>
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<td>Waste Code:</td>
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<tr>
<td>Waste Description:</td>
<td>PETROLEUM DISTILLATES</td>
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<td>+</td>
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<td>Waste Code:</td>
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<td>Waste Description:</td>
<td>ALIPHATIC SOLVENTS</td>
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<td>Waste Code:</td>
<td>252</td>
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<tr>
<td>Waste Description:</td>
<td>WASTE OILS &amp; LUBRICANTS</td>
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</table>
## Site: TOROMONT
**Burlington Street, Dofasco Hamilton ON**

<table>
<thead>
<tr>
<th>Generator #</th>
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<tbody>
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<td>00, 01, 02, 03, 04, 05, 06, 07, 08</td>
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<tr>
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<tr>
<td>SIC Description:</td>
<td>Plumbing, etc., wh.</td>
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--- Details ---
- **Waste Code:** 212
- **Waste Description:** Aliphatic Solvents
- +
- **Waste Code:** 213
- **Waste Description:** Petroleum Distillates

## Site: TOROMONT
**Burlington Street, Dofasco Hamilton ON**

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<tbody>
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<td>SIC Description:</td>
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--- Details ---
- **Waste Code:** 212
- **Waste Description:** Aliphatic Solvents
- +
- **Waste Code:** 213
- **Waste Description:** Petroleum Distillates
- +
- **Waste Code:** 252
- **Waste Description:** Waste Oils & Lubricants

## Site: TOROMONT LTD.
**Burlington Street, Dofasco Hamilton ON**

<table>
<thead>
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<td>SIC Description:</td>
<td>Plumbing, etc., wh.</td>
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--- Details ---
- **Waste Code:** 212
- **Waste Description:** Aliphatic Solvents
### Strongco

**Address:** Burlington Street, Dofasco Hamilton ON

**Generator #:** ON9132024  
**Approval Yrs:** 2012  
**SIC Code:** 417210  
**SIC Description:** Construction and Forestry Machinery Equipment and Supplies Wholesaler-Distributors

--- Details ---

<table>
<thead>
<tr>
<th>Waste Code</th>
<th>Waste Description</th>
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<tbody>
<tr>
<td>213</td>
<td>PETROLEUM DISTILLATES</td>
</tr>
<tr>
<td>252</td>
<td>WASTE OILS &amp; LUBRICANTS</td>
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</tbody>
</table>

--- Details ---

**Site:** The Royal Hamilton Yacht Club  
**Address:** Foot of MacNab St North Hamilton ON

**Generator #:** ON4709817  
**Year:** 2011  
**SIC Code:** 713930  
**SIC Description:** Marinas

--- Details ---

<table>
<thead>
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<th>Waste Code</th>
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</thead>
<tbody>
<tr>
<td>253</td>
<td>EMULSIFIED OILS</td>
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--- Details ---

**Site:** ArcelorMittal Dofasco Inc. - Bayfront Facility  
**Address:** Piers 20-21 Port of Hamilton Hamilton ON

**Year:** 2012  
**Order #:** 20141003065

--- Details ---

<table>
<thead>
<tr>
<th>Waste Code</th>
<th>Waste Description</th>
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<tbody>
<tr>
<td>213</td>
<td>PETROLEUM DISTILLATES</td>
</tr>
<tr>
<td>252</td>
<td>WASTE OILS &amp; LUBRICANTS</td>
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</tbody>
</table>
**Discharge Type:** Industrial Sewage  
**Sector:** Iron and Steel  
**Type of Concern:** Legislation Non-Compliance  
**Contaminant:** PHENOL  

--- Details ---  
**Incident Date:** 04-JUN-12  
**Limit/Unit/ Freq:** 1.08kg/d / /d  
**Quantity Min/Max:** 1.24/1.24  
**Facility Action:** Additional Monitoring Underway  
**Ministry Action:** Environmental Penalty Order Issued  

--- Details ---  
**Incident Date:** 01-JUN-12  
**Limit/Unit/ Freq:** 20% / 6min avg  
**Quantity Min/Max:** 20/100  
**Facility Action:** Action Plan Submitted - Implementing Improvements, Operational Process Modification, Other  
**Ministry Action:** Other Abatement Action Taken  

--- Details ---  
**Incident Date:** 01-OCT-12  
**Limit/Unit/ Freq:** 20% / 6min avg  
**Quantity Min/Max:** 20/100  
**Facility Action:** Action Plan Submitted - Implementing Improvements, Operational Process Modification, Other  
**Ministry Action:** Assessment Underway, Director's Order Issued, Other Abatement Action Taken  

--- Details ---  
**Incident Date:** 01-JAN-12  
**Limit/Unit/ Freq:** 20% / 6min avg  
**Quantity Min/Max:** 20/100  
**Facility Action:** Action Plan Submitted - Implementing Improvements, Operational Process Modification, Other  
**Ministry Action:** Other Abatement Action Taken  

--- Details ---  
**Incident Date:** 01-FEB-12  
**Limit/Unit/ Freq:** 20% / 6min avg  
**Quantity Min/Max:** 20/100  
**Facility Action:** Action Plan Submitted - Implementing Improvements, Operational Process Modification, Other  
**Ministry Action:** Other Abatement Action Taken  

--- Details ---  
**Incident Date:** 01-MAR-12  
**Limit/Unit/ Freq:** 20% / 6min avg  
**Quantity Min/Max:** 20/100  
**Facility Action:** Action Plan Submitted - Implementing Improvements, Operational Process Modification, Other  
**Ministry Action:** Other Abatement Action Taken  

--- Details ---  
**Incident Date:** 02-APR-12  
**Limit/Unit/ Freq:** 20% / 6min avg  
**Quantity Min/Max:** 20/100  
**Facility Action:** Action Plan Submitted - Implementing Improvements, Operational Process Modification, Other  
**Ministry Action:** Other Abatement Action Taken  

--- Details ---  
**Incident Date:** 01-MAY-12  
**Limit/Unit/ Freq:** 20% / 6min avg  
**Quantity Min/Max:** 20/100  
**Facility Action:** Action Plan Submitted - Implementing Improvements, Operational Process Modification, Other  
**Ministry Action:** Other Abatement Action Taken
<table>
<thead>
<tr>
<th>Incident Date</th>
<th>Limit/Unit/ Freq</th>
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<th>Ministry Action</th>
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<tr>
<td>01-JUL-12</td>
<td>20% / 6min avg</td>
<td>20/100</td>
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<tr>
<td>01-AUG-12</td>
<td>20% / 6min avg</td>
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<td>Action Plan Submitted - Implementing Improvements, Operational Process Modification, Other</td>
<td>Assessment Underway, Director's Order Issued</td>
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<tr>
<td>01-SEP-12</td>
<td>20% / 6min avg</td>
<td>20/100</td>
<td>Action Plan Submitted - Implementing Improvements, Operational Process Modification, Other</td>
<td>Additional Requirements Added in Approval/Permit, Director's Order Issued, Other Abatement Action Taken</td>
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<tr>
<td>01-NOV-12</td>
<td>20% / 6min avg</td>
<td>20/100</td>
<td>Action Plan Submitted - Implementing Improvements, Operational Process Modification, Other</td>
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<tr>
<td>01-DEC-12</td>
<td>20% / 6min avg</td>
<td>20/100</td>
<td>Action Plan Submitted - Implementing Improvements, Operational Process Modification, Other</td>
<td>Additional Requirements Added in Approval/Permit, Assessment Underway, Director's Order Issued, Other Abatement Action Taken</td>
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**Site:** ArcelorMittal Dofasco Inc. - Bayfront Facility  
**Piers 20-21 Port of Hamilton Hamilton ON**

**Database:** NCPL

- **Year:** 2011
- **Discharge Type:** Air Emissions
- **Sector:** Iron and Steel
- **Type of Concern:** Legislation Non-Compliance
- **Contaminant:** OPACITY

--- Details ---

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<th>Limit/Unit/ Freq</th>
<th>Quantity Min/Max</th>
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<th>Ministry Action</th>
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<tbody>
<tr>
<td>01-JAN-11</td>
<td>20% / 6min avg</td>
<td>21/100</td>
<td>Action Plan Submitted - Implementing Improvements, Conducting Study, Equipment Modified - Repaired - Replaced or Re-calibrated, Operational Process Modification</td>
<td>Director's Order Issued</td>
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<tr>
<td>01-FEB-11</td>
<td>20% / 6min avg</td>
<td>21/100</td>
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<td>Director's Order Issued</td>
<td>+</td>
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<tr>
<td>01-MAR-11</td>
<td>20% / 6min avg</td>
<td>21/100</td>
<td>Action Plan Submitted - Implementing Improvements, Conducting Study, Equipment Modified - Repaired - Replaced or Re-calibrated, Operational Process Modification, Training/Procedure Change</td>
<td>Director's Order Issued</td>
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</table>
Incident Date: 01-APR-11
Limit/Unit/ Freq: 20 % / 6min avg
Quantity Min/Max: 21/100
Facility Action: Action Plan Submitted - Implementing Improvements, Equipment Modified - Repaired - Replaced or Re-calibrated, Operational Process Modification
Ministry Action: Director's Order Issued

Incident Date: 01-MAY-11
Limit/Unit/ Freq: 20 % / 6min avg
Quantity Min/Max: 20/100
Facility Action: Conducting Study, Equipment Modified - Repaired - Replaced or Re-calibrated, Operational Process Modification, Other
Ministry Action: Director's Order Issued

Incident Date: 01-JUN-11
Limit/Unit/ Freq: 20 % / 6min avg
Quantity Min/Max: 41/100
Ministry Action: Additional Requirements Added in Certificate of Approval/Permit, Director's Order Issued

Incident Date: 01-AUG-11
Limit/Unit/ Freq: 20 % / 6min avg
Quantity Min/Max: 20/100
Facility Action: Action Plan Submitted - Implementing Improvements, Equipment Modified - Repaired - Replaced or Re-calibrated, Operational Process Modification
Ministry Action: Additional Requirements Added in Certificate of Approval/Permit, Director's Order Issued

Incident Date: 01-SEP-11
Limit/Unit/ Freq: 20 % / 6min avg
Quantity Min/Max: 21/100
Facility Action: Action Plan Submitted - Implementing Improvements, Equipment Modified - Repaired - Replaced or Re-calibrated, New Equipment or Treatment Process Installed, Operational Process Modification
Ministry Action: Additional Requirements Added in Certificate of Approval/Permit, Director's Order Issued

Incident Date: 01-OCT-11
Limit/Unit/ Freq: 20 % / 6min avg
Quantity Min/Max: 21/100
Ministry Action: Additional Requirements Added in Certificate of Approval/Permit, Director's Order Issued

Incident Date: 01-NOV-11
Limit/Unit/ Freq: 20 % / 6min avg
Quantity Min/Max: 21/100
Facility Action: Action Plan Submitted - Implementing Improvements, Conducting Study, Equipment Modified - Repaired - Replaced or Re-calibrated, New/Amended Approval, New/Modified Sampling Program Underway, Operational Process Modification
Ministry Action: Additional Requirements Added in Certificate of Approval/Permit, Director's Order Issued
Incident Date: 01-DEC-11
Limit/Unit/ Freq: 20 % / 6 min avg
Quantity Min/Max: 21/100
Ministry Action: Additional Requirements Added in Certificate of Approval/Permit, Director’s Order Issued

### Site: DOFASCO INC.
**NO. 13 STORES; BURLINGTON ST. HAMILTON ON**

<table>
<thead>
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<td>1/29/1996</td>
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</tbody>
</table>

### Site: DOFASCO INC.
**BURLINGTON ST. HAMILTON ON**

<table>
<thead>
<tr>
<th>Company Code</th>
<th>F0371</th>
</tr>
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### Site: DOFASCO INC.
**BURLINGTON ST. HAMILTON ON**

<table>
<thead>
<tr>
<th>Company Code</th>
<th>F0371</th>
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### Site: DOFASCO INC.
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<table>
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<tr>
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<table>
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<table>
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### Site: DOFASCO INC.
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<table>
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<tr>
<th>Company Code</th>
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<th>Company Code</th>
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**BURLINGTON ST. HAMILTON ON**

<table>
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**BURLINGTON ST. HAMILTON ON**

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<th>Company Code</th>
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</table>

### Site: DOFASCO INC.
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<table>
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<th>Company Code</th>
<th>F0371</th>
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</table>

### Site: DOFASCO INC.
**BURLINGTON ST. HAMILTON ON**

<table>
<thead>
<tr>
<th>Company Code</th>
<th>F0371</th>
</tr>
</thead>
</table>

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--- Details ---

Label: F036000
No. of Items: 1
Contents: 176126 KG
Serial No.: 
Item/State: TRANSFORMER/FULL
Status: STORED FOR DISPOSAL
PCB Type/Code: ASKAREL/ASKAREL
Location: Manufacturer:

+ Label: F036001
No. of Items: 1
Contents: 3636 KG
Serial No.: 
Item/State: TRANSFORMER/FULL
Status: STORED FOR DISPOSAL
PCB Type/Code: ASKAREL/ASKAREL
Location: Manufacturer:

---

--- Details ---

Label: F036000
No. of Items: 1
Contents: 176126 KG
Serial No.: 
Item/State: TRANSFORMER/FULL
Status: STORED FOR DISPOSAL
PCB Type/Code: ASKAREL/ASKAREL
Location: Manufacturer:

+ Label: F036001
No. of Items: 1
Contents: 3636 KG
Serial No.: 
Item/State: TRANSFORMER/FULL
Status: STORED FOR DISPOSAL
PCB Type/Code: ASKAREL/ASKAREL
Location: Manufacturer:
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<thead>
<tr>
<th>Site:</th>
<th>DOFASCO INC. NO. 13 STORES HAMILTON ON</th>
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<tbody>
<tr>
<td>Year:</td>
<td>2004</td>
</tr>
<tr>
<td>Site Number:</td>
<td>20194A004</td>
</tr>
<tr>
<td>--- Details ---</td>
<td></td>
</tr>
<tr>
<td>Quantity:</td>
<td>2</td>
</tr>
<tr>
<td>Description:</td>
<td>Number of Drums of Ballasts with High Level PCBs (&gt;1000 ppm)</td>
</tr>
<tr>
<td>+</td>
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<tr>
<td>Quantity:</td>
<td>400</td>
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<tr>
<td>Description:</td>
<td>Calculated Weight (Kg) of Drums of Ballasts with High Level PCBs (&gt;1000 ppm)</td>
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<tr>
<td>Quantity:</td>
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<td>Description:</td>
<td>Calculated Weight (Kg) of Drums of Other Material with High Level PCBs (&gt;1000 ppm) kg</td>
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<tr>
<td>+</td>
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<tr>
<td>Quantity:</td>
<td>24</td>
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<td>Description:</td>
<td>Number of Transformers with High Level PCBs (&gt;1000 ppm)</td>
</tr>
<tr>
<td>+</td>
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<tr>
<td>Quantity:</td>
<td>7</td>
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<td>Description:</td>
<td>Number of Capacitors with High Level PCBs (&gt;1000 ppm)</td>
</tr>
<tr>
<td>+</td>
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<tr>
<td>Quantity:</td>
<td>6</td>
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<tr>
<td>Description:</td>
<td>Number of Drums of Soil with High Level PCBs (&gt;1000 ppm)</td>
</tr>
<tr>
<td>+</td>
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<tr>
<td>Quantity:</td>
<td>2400</td>
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<td>Description:</td>
<td>Calculated Weight (Kg) of Drums of Soil with High Level PCBs (&gt;1000 ppm)</td>
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<tr>
<td>+</td>
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</tr>
<tr>
<td>Quantity:</td>
<td>18</td>
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<tr>
<td>Description:</td>
<td>Number of Drums of Other Material with High Level PCBs (&gt;1000 ppm)</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Site:</th>
<th>DOFASCO INC. NO. 13 STORES HAMILTON ON</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year:</td>
<td>2003</td>
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<tr>
<td>Site Number:</td>
<td>20194A004</td>
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<tr>
<td>--- Details ---</td>
<td></td>
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<tr>
<td>Quantity:</td>
<td>1731.00</td>
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<tr>
<td>Description:</td>
<td>Weight of Bulk Liquid with High Level PCBs (&gt;1000 ppm) kg</td>
</tr>
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<td>+</td>
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<tr>
<td>Quantity:</td>
<td>4634.00</td>
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<tr>
<td>Description:</td>
<td>Weight of Liquid in Transformer with High Level PCBs (&gt;1000 ppm) kg</td>
</tr>
<tr>
<td>+</td>
<td></td>
</tr>
<tr>
<td>Quantity:</td>
<td>5.00</td>
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<tr>
<td>Description:</td>
<td>Number of Transformers with High Level PCBs (&gt;1000 ppm)</td>
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### Details

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight of Bulk Liquid with High Level PCBs (&gt;1000 ppm) kg</td>
<td>2159.00</td>
</tr>
<tr>
<td>Weight of Liquid in Transformer with High Level PCBs (&gt;1000 ppm) kg</td>
<td>160413.00</td>
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<tr>
<td>Number of Transformers with High Level PCBs (&gt;1000 ppm)</td>
<td>97.00</td>
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<tr>
<td>Number of Drums of Ballasts with High Level PCBs (&gt;1000 ppm)</td>
<td>1.00</td>
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<td>Calculated Weight (Kg) of Drums of Ballasts with High Level PCBs (&gt;1000 ppm)</td>
<td>200.00</td>
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<tr>
<td>Number of Capacitors with High Level PCBs (&gt;1000 ppm)</td>
<td>9.00</td>
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<tr>
<td>Number of Drums of Soil with Low Level PCBs (&lt; 1000 ppm) kg</td>
<td>15.00</td>
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<tr>
<td>Calculated Weight (Kg) of Drums of Soil with Low Level PCBs (&lt; 1000 ppm) kg</td>
<td>6000.00</td>
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<td>Number of Drums of Other Material with Low Level PCBs (&lt; 1000 ppm) kg</td>
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<tr>
<td>Calculated Weight of Drums of Other Material with Low Level PCBs (&lt; 1000 ppm) kg</td>
<td>5100.00</td>
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### Details

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>Weight of Bulk Liquid with High Level PCBs (&gt;1000 ppm) kg</td>
<td>533.00</td>
</tr>
<tr>
<td>Weight of Liquid in Transformer with High Level PCBs (&gt;1000 ppm) kg</td>
<td>13835.00</td>
</tr>
<tr>
<td>Number of Transformers with High Level PCBs (&gt;1000 ppm)</td>
<td>58.00</td>
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<tr>
<td>Number of Drums of Other Material with High Level PCBs (&gt;1000 ppm)</td>
<td>1.00</td>
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<tr>
<td>Weight of Drums of Other Material with High Level PCBs (&gt;1000 ppm) kg</td>
<td>150.00</td>
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Year: 2000
Site Number: 20194A004

--- Details ---
Quantity: 176126.00
Description: Weight of Liquid in Transformer with High Level PCBs (>1000 ppm) kg
+
Quantity: 3636.00
Description: Weight of Liquid in Transformers with Low Level PCBs (< 1000 ppm) kg
+
Quantity: 112.00
Description: Number of Transformers with High Level PCBs (>1000 ppm)
+
Quantity: 1.00
Description: Number of Transformers with Low Level PCBs (< 1000 ppm) kg
+
Quantity: 19.00
Description: Number of Capacitors with High Level PCBs (>1000 ppm)
+
Quantity: 100.00
Description: Number of Drums of Other Material with High Level PCBs (>1000 ppm)
+
Quantity: 15000.00
Description: Calculated Weight (Kg) of Drums of Other Material with High Level PCBs (>1000 ppm) kg

--- Details ---
Quantity: 176126.00
Description: Weight of Liquid in Transformer with High Level PCBs (>1000 ppm) kg
+
Quantity: 112.00
Description: Number of Transformers with High Level PCBs (>1000 ppm)
+
Quantity: 19.00
Description: Number of Capacitors with High Level PCBs (>1000 ppm)
+
Quantity: 100.00
Description: Number of Drums of Other Material with High Level PCBs (>1000 ppm)
+
Quantity: 15000.00
Description: Calculated Weight (Kg) of Drums of Other Material with High Level PCBs (>1000 ppm) kg

--- Details ---
Location ID: 5864
Type: private
Expiry Date:
Capacity (L): 45460.00
Licence #: 0001056202
**Site:** NEIL OCONNELL  
LOT 15 CON 1 HAMILTON TWP ON  

Location ID: 617  
Type: private  
Expiry Date:  
Capacity (L): 6819.00  
Licence #: 0001009181

--- Details ---  
Waste Code: 243  
Waste Description: PCB'S

**Site:** DOFASCO INC  
GATE 10 BURLINGTON ST E HAMILTON ON

Location ID: 5912  
Type: private  
Expiry Date:  
Capacity (L): 44463.00  
Licence #: 0001054996

**Site:** DOFASCO INC  
GATE 10 BURLINGTON ST E HAMILTON ON

Location ID: 5912  
Type: retail  
Expiry Date:  
Capacity (L): 45460  
Licence #: 0001055002

**Site:** DOFASCO INC ATTN MK MATHEWSON  
GTE10 BURLINGTON ST E HAMILTON ON

Location ID: 5864  
Type: retail  
Expiry Date:  
Capacity (L): 44463  
Licence #: 0001056213

--- Details ---  
Waste Code: 243  
Waste Description: PCB'S

**Site:** DOFASCO INC.  
NO. 13 STORES DOFASCO'S BAY FRONT PROPER HAMILTON ON  

Receiver #: 201-94A004  
Facility Type: PCB STORAGE SITE  
Approval Yrs: 02,03,04,05

--- Details ---  
Waste Code: 243  
Waste Description: PCB'S

**Site:** HAMILTON HYDRO & ENGINEERING D  
ALLEY EAST OF JAMES WEST OF HEUGHSON ST N HAMILTON CITY ON  

Ref No.: 71074  
Incident Dt: 5/24/1992  
MOE Reported Dt: 5/24/1992  
Contaminant Name: 

--- Details ---  
Receiver #: 
Facility Type: PCB STORAGE SITE  
Approval Yrs: 02,03,04,05

--- Details ---  
Waste Code: 243  
Waste Description: PCB'S
Contaminant Quantity: HAMILTON HYDRO - 5 L OF MINERAL OIL TO GROUND FROM TRANSFORMER
Incident Summary: COOLING SYSTEM LEAK
Incident Cause: DAMAGE BY MOVING EQUIPMENT
Nature of Impact:
Receiving Medium: LAND
Environmental Impact: NOT ANTICIPATED

Site: Echelon Response & Training Inc.
Burlington St W, just south of QEW exit, 0.2 km<UNOFFICIAL> Hamilton ON

Ref No.: 7857-69PM96
Incident Dt: 2/17/2005
MOE Reported Dt: 2/17/2005
Contaminant Name: GASOLINE
Contaminant Quantity: MVA: 40L gasoline to roadway
Incident Reason: Not Anticipated
Nature of Impact: Not Anticipated

Site: ArcelorMittal Dofasco Inc.
Hamilton ON

Ref No.: 0051-9FMLHW
Incident Dt: 2014/01/23
MOE Reported Dt: 2014/01/23
Contaminant Name: COAL DUST
Contaminant Quantity: 0 other - see incident description
Incident Summary: Arcelor Mittal-Dofasco: Air Emission, an unusual occurrence
Incident Cause: Equipment Failure
Incident Reason: Not Anticipated
Nature of Impact: Not Anticipated
Receiving Medium: Not Anticipated
Environmental Impact: Not Anticipated

Site: CANADIAN NATIONAL RAILWAY
C.N. RAIL LINE JUST WEST OF JAMES STREET HAMILTON CITY ON

Ref No.: 124433
Incident Dt: 4/2/1996
MOE Reported Dt: 4/2/1996
Contaminant Name:
Contaminant Quantity:
Incident Summary: C.N. RAIL: 225 L DIESEL FUEL TO RAIL BED WHEN EQUIPMENT HIT OVERPASS.
Incident Cause: OTHER CONTAINER LEAK
Incident Reason: DAMAGE BY MOVING EQUIPMENT
Nature of Impact: Multi Media Pollution
Receiving Medium: LAND
Environmental Impact: POSSIBLE

Site: ArcelorMittal Dofasco Inc.
#4 Blast furnace Dofasco<UNOFFICIAL> Hamilton ON

Database: SPL
Ref No.: 7004-7LCRTS
Incident Dt: 11/13/2008
MOE Reported Dt: 11/13/2008
Contaminant Name: BOILER TREATED WATER
Contaminant Quantity: 7500 gal-Imp
Incident Summary: Dofasco, Boiler Water to Hamilton Harb
Incident Cause: Discharge Or Bypass To A Watercourse
Incident Reason: Equipment Failure - Malfunction of system components
Nature of Impact: Surface Water Pollution
Receiving Medium: 
Environmental Impact: Confirmed

Site: ArcelorMittal Dofasco Inc.
ArcelorMittal Dofasco HAMILTON ON

Ref No.: 7521-82XJ7Y
Incident Dt: 2/23/2010
MOE Reported Dt: 2/23/2010
Contaminant Name: OPACITY
Contaminant Quantity: 20 %
Incident Summary: Arcelor Mittal Dofasco: 2 visible emissions
Incident Cause: 
Incident Reason: Air Pollution
Receiving Medium: 
Environmental Impact: Confirmed

Site: ArcelorMittal Dofasco Inc.
Arcelor Mittal Dofasco Inc Baywater Inlet, Hamilton Harbour Hamilton ON

Ref No.: 8132-7WPDE
Incident Dt: 3/7/2009
MOE Reported Dt: 3/7/2009
Contaminant Name: OIL (PETROLEUM BASED, NOT SPECIFIED)
Contaminant Quantity: 0 other - see incident description
Incident Summary: Arcelor Mittal/Dofasco: Oil sheen in Ottawa Slip
Incident Cause: Unknown
Incident Reason: Unknown - Reason not determined
Nature of Impact: Surface Water Pollution
Receiving Medium: 
Environmental Impact: Confirmed

Site: ArcelorMittal Dofasco Inc.
Piers 20 & 21 Port of Hamilton Hamilton ON

Ref No.: 6063-7SJMMG
Incident Dt: 5/30/2009
MOE Reported Dt: 5/30/2009
Contaminant Name: IRON OXIDE
Contaminant Quantity: 0 min (duration)
Incident Summary: ArcelorMittal Dofasco: medium density smoke to atm, 3min
Incident Cause: Discharge or Emission to Air
Incident Reason: Process upset
Nature of Impact: Air Pollution
Receiving Medium: 
Environmental Impact: Possible
### Site: ArcelorMittal Dofasco Inc.  
Piers 20-21 Port of Hamilton Hamilton ON

<table>
<thead>
<tr>
<th>Ref No.</th>
<th>6121-8RJADF</th>
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<tr>
<td>Incident Dt:</td>
<td>16-FEB-12</td>
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<tr>
<td>MOE Reported Dt:</td>
<td>16-FEB-12</td>
</tr>
<tr>
<td>Contaminant Name</td>
<td>CYANIDE</td>
</tr>
<tr>
<td>Incident Summary</td>
<td>AMD coke oven clarifier overflow cyanide and fl to Ham. Har</td>
</tr>
<tr>
<td>Incident Cause:</td>
<td>Discharge Or Bypass To A Watercourse</td>
</tr>
<tr>
<td>Incident Reason:</td>
<td>Spill</td>
</tr>
<tr>
<td>Nature of Impact</td>
<td>Surface Water Pollution</td>
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<tr>
<td>Receiving Medium</td>
<td>Sewage - Municipal/Private and Commercial</td>
</tr>
<tr>
<td>Environmental Impact:</td>
<td>Confirmed</td>
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### Site: Burlington Street East; Hamilton; Hamilton ON

<table>
<thead>
<tr>
<th>Ref No.</th>
<th>2237-79CLFQ</th>
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<tbody>
<tr>
<td>Incident Dt:</td>
<td>11/27/2007</td>
</tr>
<tr>
<td>MOE Reported Dt:</td>
<td>11/27/2007</td>
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<tr>
<td>Contaminant Name</td>
<td>SEWAGE, RAW UNCHLORINATED</td>
</tr>
<tr>
<td>Contaminant Quantity</td>
<td>300 L</td>
</tr>
<tr>
<td>Incident Summary</td>
<td>Venetian Meat &amp; Salami-Sewage pumped to ST./C.B.</td>
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<tr>
<td>Incident Cause:</td>
<td>Other Discharges</td>
</tr>
<tr>
<td>Incident Reason:</td>
<td>Error - Operator error</td>
</tr>
<tr>
<td>Nature of Impact</td>
<td>Soil Contamination</td>
</tr>
<tr>
<td>Receiving Medium</td>
<td>Land</td>
</tr>
<tr>
<td>Environmental Impact:</td>
<td>Confirmed</td>
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### Site: Dofasco Inc.  
Burlington St. E, between Kenilworth & Ottawa Sts. Hamilton ON

<table>
<thead>
<tr>
<th>Ref No.</th>
<th>2458-62QJZU</th>
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<tbody>
<tr>
<td>Incident Dt:</td>
<td>7/9/2004</td>
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<tr>
<td>MOE Reported Dt:</td>
<td>7/9/2004</td>
</tr>
<tr>
<td>Contaminant Name</td>
<td>SCRUBBER WATER (N.O.S.)</td>
</tr>
<tr>
<td>Contaminant Quantity</td>
<td>process water to Hamilton Harbour</td>
</tr>
<tr>
<td>Incident Summary</td>
<td>Dofasco - flushing liquor spill.</td>
</tr>
<tr>
<td>Incident Cause:</td>
<td>Unknown</td>
</tr>
<tr>
<td>Incident Reason:</td>
<td>Surface Water Pollution</td>
</tr>
<tr>
<td>Receiving Medium</td>
<td>Water</td>
</tr>
<tr>
<td>Environmental Impact:</td>
<td>Possible</td>
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### Site: Dofasco Inc.  
Burlington St. E, between Kenilworth & Ottawa Sts. Hamilton ON

<table>
<thead>
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<th>Ref No.</th>
<th>5706-62M357</th>
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<tr>
<td>MOE Reported Dt:</td>
<td>7/5/2004</td>
</tr>
<tr>
<td>Contaminant Name</td>
<td>FLUSHING LIQUOR</td>
</tr>
<tr>
<td>Contaminant Quantity</td>
<td>flushing liquor spill.</td>
</tr>
<tr>
<td>Incident Summary</td>
<td>Dofasco - flushing liquor spill.</td>
</tr>
<tr>
<td>Incident Cause:</td>
<td></td>
</tr>
<tr>
<td>Incident Reason:</td>
<td></td>
</tr>
<tr>
<td>Nature of Impact</td>
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</tr>
<tr>
<td>Receiving Medium</td>
<td></td>
</tr>
<tr>
<td>Environmental Impact:</td>
<td></td>
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</tbody>
</table>
Environmental Impact:

**Site:** Dofasco Inc.  
**Burlington St. E, between Kenilworth & Ottawa Sts. Hamilton ON**

- **Ref No.:** 0838-648JWU  
- **Incident Dt:** 8/26/2004  
- **MOE Reported Dt:** 8/26/2004  
- **Contaminant Name:** LIME DUST  
- **Contaminant Quantity:** 10 min (duration)  
- **Incident Summary:** Dofasco: Lime Dust to Atm, 10 Mins.  
- **Incident Cause:** Discharge or Emission to Air  
- **Incident Reason:** Equipment Failure - Malfunction of system components  
- **Nature of Impact:** Air Pollution  
- **Receiving Medium:** Air  
- **Environmental Impact:** Possible

**Site:** Dofasco Inc.  
**Burlington St. E, between Kenilworth & Ottawa Sts. Hamilton ON**

- **Ref No.:** 4377-658RTN  
- **Incident Dt:** 9/27/2004  
- **MOE Reported Dt:** 9/27/2004  
- **Contaminant Name:** FLUSHING LIQUOR  
- **Incident Summary:** Dofasco: 400 gal flushing liquor to ground  
- **Incident Cause:** Unknown  
- **Incident Reason:** Unknown - Reason not determined  
- **Nature of Impact:** Soil Contamination  
- **Receiving Medium:** Land  
- **Environmental Impact:** Not Anticipated

**Site:** Dofasco Inc.  
**Burlington St. E, between Kenilworth & Ottawa Sts. Hamilton ON**

- **Ref No.:** 0365-5YST95  
- **Incident Dt:** 5/8/2004  
- **MOE Reported Dt:** 5/8/2004  
- **Contaminant Name:** DIESEL FUEL  
- **Contaminant Quantity:** 9 L  
- **Incident Summary:** Dofasco-9 L diesel to grnd/sewer.  
- **Incident Cause:** Pipe Or Hose Leak  
- **Incident Reason:** Equipment Failure  
- **Nature of Impact:** Surface Water Pollution  
- **Receiving Medium:** Water  
- **Environmental Impact:** Possible

**Site:** Dofasco Inc.  
**Burlington St. E, between Kenilworth & Ottawa Sts. Hamilton ON**

- **Ref No.:** 6334-64GKQY  
- **Incident Dt:** 9/3/2004  
- **MOE Reported Dt:** 9/3/2004  
- **Contaminant Name:** EFFLUENT (NOT OTHERWISE SPECIFIED)  
- **Contaminant Quantity:** Dofasco: Effluent to Storm Sewer, 1 Gal/Min
**Incident Cause:** Discharge Or Bypass To A Watercourse

**Incident Reason:** Unknown - Reason not determined

**Nature of Impact:** Surface Water Pollution

**Receiving Medium:** Water

**Environmental Impact:** Possible

---

**Site:** City of Hamilton  
**Burlington St. E, between Kenilworth & Ottawa Sts. Hamilton ON**

**Database:** SPL

**Ref No.:** 8366-63WQYE

**Incident Dt:** 8/16/2004

**MOE Reported Dt:** 8/16/2004

**Contaminant Name:**

**Contaminant Quantity:**

**Incident Summary:** Dofasco, unkwn substance to bayfront slip

---

**Site:** Burlington St East Ramp Hamilton ON

**Database:** SPL

**Ref No.:** 4853-9EPF2T

**Incident Dt:** 2013/12/24

**MOE Reported Dt:** 2013/12/24

**Contaminant Name:** DIESEL FUEL

**Contaminant Quantity:** 100 L

**Incident Summary:** MVA QEW on ramp at Red Hill Valley Pkwy, dsl 100L

**Incident Reason:** Weather Conditions

**Nature of Impact:** Other Impact(s)

**Receiving Medium:**

**Environmental Impact:** Confirmed

---

**Site:** Les Transport<UNOFFICIAL>
**Burlington St E Hamilton ON**

**Database:** SPL

**Ref No.:** 3776-7XY3WU

**Incident Dt:** 11/19/2009

**MOE Reported Dt:** 11/19/2009

**Contaminant Name:** DIESEL FUEL

**Contaminant Quantity:** 100 L

**Incident Summary:** Les Transport: saddle tank hit by vehicle

**Incident Reason:** Other Discharges

**Nature of Impact:** Other Impact(s)

**Receiving Medium:**

**Environmental Impact:** Confirmed

---

**Site:** Horizon Utilities Corporation
**Burlington St E Hamilton ON**

**Database:** SPL

**Ref No.:** 8020-99ENPZ

**Incident Dt:** 2013/07/08
MOE Reported Dt: 2013/07/08
Contaminant Name: TRANSFORMER OIL (N.O.S.)
Contaminant Quantity: 256 L
Incident Summary: Horizon Utilities: 256 L of non-PCB transformer oil to soil
Incident Cause: Leak/Break
Incident Reason: Equipment Failure
Nature of Impact: Soil Contamination
Receiving Medium: 
Environmental Impact: Confirmed

Site: RENTAL COMPANY
BURLINGTON ST., NEAR DOFASCO HAMILTON ON

Ref No.: 185548
Incident Dt: 8/28/2000
MOE Reported Dt: 8/28/2000
Contaminant Name: VENETOR CRANE & EQPMT
Contaminant Quantity: 90 L
Incident Summary: VENETOR CRANE & EQPMT: 90 L HYDRAULIC OIL TO ROAD. CLEANED.
Incident Cause: PIPE/HOSE LEAK
Incident Reason: EQUIPMENT FAILURE
Nature of Impact: Soil contamination
Receiving Medium: LAND
Environmental Impact: POSSIBLE

Site: DOFASCO INC.
BURLINGTON BAY BURLINGTON STREET EAST HAMILTON ON

Ref No.: 189100
Incident Dt: 10/24/2000
MOE Reported Dt: 10/24/2000
Contaminant Name: DOFASCO INC
Contaminant Quantity: OIL SPILL TO HAMILTON HARBOUR, QUANTITY UNKNOWN, CLEANING UP
Incident Summary: DOFASCO INC: OIL SPILL TO HAMILTON HARBOUR, QUANTITY UNKNOWN, CLEANING UP
Incident Cause: UNKNOWN
Incident Reason: UNKNOWN
Nature of Impact: Water course or lake
Receiving Medium: WATER
Environmental Impact: POSSIBLE

Site: DOFASCO INC.
HAMILTON ON

Ref No.: 190051
Incident Dt: 11/8/2000
MOE Reported Dt: 11/8/2000
Contaminant Name: DOFASCO-3 HR MEDIUM IRON OXIDE DUST FROM #1 ACID REGEN PLANT. SHUT DOWN.
Contaminant Quantity: 
Incident Summary: DOFASCO-3 HR MEDIUM IRON OXIDE DUST FROM #1 ACID REGEN PLANT. SHUT DOWN.
Incident Cause: OTHER CAUSE (N.O.S.)
Incident Reason: OTHER
Nature of Impact: Air Pollution
Receiving Medium: AIR
Environmental Impact: POSSIBLE
<table>
<thead>
<tr>
<th>Site: Acon Construction&lt;UNOFFICIAL&gt;</th>
<th>Database: SPL</th>
</tr>
</thead>
<tbody>
<tr>
<td>West of Burlington Street, Hamilton Hamilton ON</td>
<td></td>
</tr>
<tr>
<td>Ref No.: 3086-6SRKGJ</td>
<td></td>
</tr>
<tr>
<td>Incident Dt: 8/17/2006</td>
<td></td>
</tr>
<tr>
<td>MOE Reported Dt: 8/17/2006</td>
<td></td>
</tr>
<tr>
<td>Contaminant Name: OIL (PETROLEUM BASED, NOT SPECIFIED)</td>
<td></td>
</tr>
<tr>
<td>Contaminant Quantity: Not specified</td>
<td></td>
</tr>
<tr>
<td>Incident Summary: Red Hill Creek: oily substance discharged to creek</td>
<td></td>
</tr>
<tr>
<td>Incident Cause: Discharge Or Bypass To A Watercourse</td>
<td></td>
</tr>
<tr>
<td>Incident Reason:</td>
<td></td>
</tr>
<tr>
<td>Nature of Impact: Surface Water Pollution</td>
<td></td>
</tr>
<tr>
<td>Receiving Medium: Water</td>
<td></td>
</tr>
<tr>
<td>Environmental Impact: Possible</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Site: UNKNOWN</th>
<th>Database: SPL</th>
</tr>
</thead>
<tbody>
<tr>
<td>PARKING LOT AT SOUTH WEST CORNER OF BURLINGTON ST/SHERMAN AVE. HAMILTON CITY ON</td>
<td></td>
</tr>
<tr>
<td>Ref No.: 101090</td>
<td></td>
</tr>
<tr>
<td>Incident Dt: 6/12/1994</td>
<td></td>
</tr>
<tr>
<td>MOE Reported Dt: 6/12/1994</td>
<td></td>
</tr>
<tr>
<td>Contaminant Name:</td>
<td></td>
</tr>
<tr>
<td>Contaminant Quantity: 3 DRUMS DUMPED ON PRIVATE PROPERTY, OILY/SLUDGE MAT'L TO PAVEMENT &amp; CATCH BASIN</td>
<td></td>
</tr>
<tr>
<td>Incident Summary:</td>
<td></td>
</tr>
<tr>
<td>Incident Cause: OTHER CAUSE (N.O.S.)</td>
<td></td>
</tr>
<tr>
<td>Incident Reason: INTENTIONAL/PLANNED</td>
<td></td>
</tr>
<tr>
<td>Nature of Impact:</td>
<td></td>
</tr>
<tr>
<td>Receiving Medium: LAND / WATER</td>
<td></td>
</tr>
<tr>
<td>Environmental Impact: NOT ANTICIPATED</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Site: NORJOHN CONTRACTING LTD.</th>
<th>Database: SPL</th>
</tr>
</thead>
<tbody>
<tr>
<td>ON Burlington St. Near Montank Hamilton City ON</td>
<td></td>
</tr>
<tr>
<td>Ref No.: 167031</td>
<td></td>
</tr>
<tr>
<td>Incident Dt: 4/26/1999</td>
<td></td>
</tr>
<tr>
<td>MOE Reported Dt: 4/26/1999</td>
<td></td>
</tr>
<tr>
<td>Contaminant Name:</td>
<td></td>
</tr>
<tr>
<td>Contaminant Quantity: NORJOHN CONTRACTING LTD. - 25 L OF ASHALT CEMENT TO ROAD.</td>
<td></td>
</tr>
<tr>
<td>Incident Summary: CONTAINER OVERFLOW</td>
<td></td>
</tr>
<tr>
<td>Incident Cause: OTHER</td>
<td></td>
</tr>
<tr>
<td>Incident Reason:</td>
<td></td>
</tr>
<tr>
<td>Nature of Impact:</td>
<td></td>
</tr>
<tr>
<td>Receiving Medium: LAND</td>
<td></td>
</tr>
<tr>
<td>Environmental Impact: NOT ANTICIPATED</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Site: Dry ditch on edge of Toronto-bound QEW offramp to Burlington Street&lt;UNOFFICIAL&gt; Hamilton ON</th>
<th>Database: SPL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ref No.: 4251-6GMNBE</td>
<td></td>
</tr>
<tr>
<td>Incident Dt: 9/27/2005</td>
<td></td>
</tr>
<tr>
<td>MOE Reported Dt: 9/27/2005</td>
<td></td>
</tr>
<tr>
<td>Contaminant Name: FUEL (N.O.S.)</td>
<td></td>
</tr>
<tr>
<td>Contaminant Quantity:</td>
<td></td>
</tr>
<tr>
<td>Incident Summary: Ryder Truck, 3-4L fuel to dry ditch off QEW</td>
<td></td>
</tr>
<tr>
<td>Incident Cause: Other Transport Accident</td>
<td></td>
</tr>
<tr>
<td>Incident Reason: Equipment/Vehicles</td>
<td></td>
</tr>
<tr>
<td>Nature of Impact: Soil Contamination</td>
<td></td>
</tr>
<tr>
<td>Site: Laidlaw Carriers Tank GP Inc.</td>
<td>Database: SPL</td>
</tr>
<tr>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>Ref No.:</td>
<td>8173-6YECEK</td>
</tr>
<tr>
<td>Incident Dt:</td>
<td>2/14/2007</td>
</tr>
<tr>
<td>MOE Reported Dt:</td>
<td>2/14/2007</td>
</tr>
<tr>
<td>Contaminant Name:</td>
<td>DIESEL FUEL</td>
</tr>
<tr>
<td>Contaminant Quantity:</td>
<td>600 L</td>
</tr>
<tr>
<td>Incident Summary:</td>
<td>MVA: 600 L diesel</td>
</tr>
<tr>
<td>Incident Cause:</td>
<td>Other Transport Accident</td>
</tr>
<tr>
<td>Incident Reason:</td>
<td>Weather</td>
</tr>
<tr>
<td>Nature of Impact:</td>
<td>Other Impact(s); Soil Contamination; Vegetation Damage</td>
</tr>
<tr>
<td>Receiving Medium:</td>
<td>Land</td>
</tr>
<tr>
<td>Environmental Impact:</td>
<td>Confirmed</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Site: Canada Cartage Systems Limited</th>
<th>Database: SPL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ref No.:</td>
<td>6385-756QYQ</td>
</tr>
<tr>
<td>Incident Dt:</td>
<td>7/16/2007</td>
</tr>
<tr>
<td>MOE Reported Dt:</td>
<td>7/16/2007</td>
</tr>
<tr>
<td>Contaminant Name:</td>
<td>DIESEL FUEL</td>
</tr>
<tr>
<td>Contaminant Quantity:</td>
<td>200 L</td>
</tr>
<tr>
<td>Incident Summary:</td>
<td>Canada Cartage - 50 L diesel to road and c/b</td>
</tr>
<tr>
<td>Incident Cause:</td>
<td>Other Transport Accident</td>
</tr>
<tr>
<td>Incident Reason:</td>
<td>Other - Reason not otherwise defined</td>
</tr>
<tr>
<td>Nature of Impact:</td>
<td>Surface Water Pollution</td>
</tr>
<tr>
<td>Receiving Medium:</td>
<td>Water</td>
</tr>
<tr>
<td>Environmental Impact:</td>
<td>Not Anticipated</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Site: Stelco Inc.</th>
<th>Database: SPL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ref No.:</td>
<td>1386-6S6C9P</td>
</tr>
<tr>
<td>Incident Dt:</td>
<td>7/29/2006</td>
</tr>
<tr>
<td>MOE Reported Dt:</td>
<td>7/29/2006</td>
</tr>
<tr>
<td>Contaminant Name:</td>
<td>TALLOW</td>
</tr>
<tr>
<td>Contaminant Quantity:</td>
<td>3637 L</td>
</tr>
<tr>
<td>Incident Summary:</td>
<td>Hamilton Steel - Stelco: spill 3637L tallow sol on grnd.</td>
</tr>
<tr>
<td>Incident Cause:</td>
<td>Other Discharges</td>
</tr>
<tr>
<td>Incident Reason:</td>
<td>Spill</td>
</tr>
<tr>
<td>Nature of Impact:</td>
<td>Soil Contamination</td>
</tr>
<tr>
<td>Receiving Medium:</td>
<td>Land</td>
</tr>
<tr>
<td>Environmental Impact:</td>
<td>Possible</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Site: Dofasco Inc.</th>
<th>Database: SPL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ref No.:</td>
<td>2126-6GRG85</td>
</tr>
<tr>
<td>Incident Dt:</td>
<td>10/1/2005</td>
</tr>
<tr>
<td>MOE Reported Dt:</td>
<td>10/1/2005</td>
</tr>
<tr>
<td>Contaminant Name:</td>
<td>HYDROCHLORIC ACID (MURIATIC ACID)</td>
</tr>
<tr>
<td>Contaminant Quantity:</td>
<td></td>
</tr>
</tbody>
</table>
### Incident Summary:
Dofasco #6 Pickle Line: 273L HCl to gravel grnd, clng.

### Incident Cause:
Pipe Or Hose Leak

### Incident Reason:
Unknown - Reason not determined

### Nature of Impact:
Soil Contamination

### Receiving Medium:
Land

### Environmental Impact:
Confirmed

---

**Site:** PHILIP ENTERPRISES  
**BURLINGTON STREET JUST WEST OF PARKDALE HAMILTON CITY ON**

<table>
<thead>
<tr>
<th>Ref No.</th>
<th>Incident Dt:</th>
<th>MOE Reported Dt:</th>
<th>Contaminant Name:</th>
<th>Contaminant Quantity:</th>
<th>Incident Summary:</th>
<th>Incident Cause:</th>
<th>Incident Reason:</th>
<th>Nature of Impact:</th>
<th>Receiving Medium:</th>
<th>Environmental Impact:</th>
</tr>
</thead>
<tbody>
<tr>
<td>35386</td>
<td>5/28/1990</td>
<td>5/28/1990</td>
<td>PHILIP ENTERPRISES</td>
<td>1 TONNE FOUNDRY SAND</td>
<td>ROADWAY AFTER GATE OPENS</td>
<td>OTHER TRANSPORTATION ACCIDENT</td>
<td>EQUIPMENT FAILURE</td>
<td>LAND</td>
<td>CONFIRMED</td>
<td></td>
</tr>
</tbody>
</table>

---

**Site:** DOFASCO INC.  
**BURLINGTON ST. HAMILTON CITY ON**

<table>
<thead>
<tr>
<th>Ref No.</th>
<th>Incident Dt:</th>
<th>MOE Reported Dt:</th>
<th>Contaminant Name:</th>
<th>Contaminant Quantity:</th>
<th>Incident Summary:</th>
<th>Incident Cause:</th>
<th>Incident Reason:</th>
<th>Nature of Impact:</th>
<th>Receiving Medium:</th>
<th>Environmental Impact:</th>
</tr>
</thead>
<tbody>
<tr>
<td>125379</td>
<td>4/22/1996</td>
<td>4/22/1996</td>
<td>DOFASCO</td>
<td>TRUCK LOAD OF AMMONIA SULPHATE</td>
<td>SPILLED TO ROADWAY FROM TRANSPORT</td>
<td>OTHER CONTAINER LEAK</td>
<td>UNKNOWN</td>
<td>Soil contamination</td>
<td>LAND</td>
<td>POSSIBLE</td>
</tr>
</tbody>
</table>

---

**Site:** CANADIAN NATIONAL RAILWAY  
**BURLINGTON ST. HAMILTON CITY ON**

<table>
<thead>
<tr>
<th>Ref No.</th>
<th>Incident Dt:</th>
<th>MOE Reported Dt:</th>
<th>Contaminant Name:</th>
<th>Contaminant Quantity:</th>
<th>Incident Summary:</th>
<th>Incident Cause:</th>
<th>Incident Reason:</th>
<th>Nature of Impact:</th>
<th>Receiving Medium:</th>
<th>Environmental Impact:</th>
</tr>
</thead>
<tbody>
<tr>
<td>94532</td>
<td>12/16/1993</td>
<td>12/16/1993</td>
<td>CANADIAN NATIONAL RAILW.</td>
<td>135L DIESEL FUEL</td>
<td>ALONG 100M FROM TRAIN FUEL TANK</td>
<td>UNKNOWN</td>
<td>UNKNOWN</td>
<td>Soil contamination</td>
<td>LAND</td>
<td>POSSIBLE</td>
</tr>
</tbody>
</table>

---

**Site:** DOFASCO INC.  
**Database: SPL**
**BURLETON ST AT DOFASCO’S GATE # 10. HAMILTON CITY ON**

Ref No.: 235066  
Incident Dt: 8/7/2002  
MOE Reported Dt: 8/7/2002  
Contaminant Name:  
Contaminant Quantity:  
Incident Summary: DOFASCO-3 L TAR ALONG RD FROM OVERFILLED TRUCK, CONTAINED & CLEANED UP  
Incident Cause: CONTAINER OVERFLOW  
Incident Reason: ERROR  
Nature of Impact:  
Receiving Medium: LAND  
Environmental Impact: NOT ANTICIPATED

**Site:** Along Burlington Street and into Woodward Treatment Plant Hamilton ON

Ref No.: 7122-72H652  
Incident Dt:  
MOE Reported Dt: 4/21/2007  
Contaminant Name: SOLVENT (N.O.S.)  
Contaminant Quantity: unknown unknown  
Incident Summary: Ukn solvent to sanitary & Woodward STP  
Incident Cause: Other Discharges  
Incident Reason: Unknown - Reason not determined  
Nature of Impact: Other Impact(s); Surface Water Pollution  
Receiving Medium: Water  
Environmental Impact: Possible

**Site:** ArcelorMittal Dofasco Inc.  
**South, Gate 15 Hamilton ON**

Ref No.: 4346-95NL7U  
Incident Dt: 10-MAR-13  
MOE Reported Dt: 10-MAR-13  
Contaminant Name:  
Contaminant Quantity:  
Incident Summary: Dofasco: Product in Ottawa St Slip  
Incident Cause: Unknown / N/A  
Incident Reason: Unknown / N/A  
Nature of Impact: Surface Water Pollution  
Receiving Medium:  
Environmental Impact: Possible

**Site:** ArcelorMittal Dofasco Inc.  
**Piers 20-21 Port of Hamilton Hamilton ON**

Ref No.: 6803-8R2LNN  
Incident Dt: 31-JAN-12  
MOE Reported Dt: 31-JAN-12  
Contaminant Name: WASTEWATER N.O.S.  
Contaminant Quantity:  
Incident Summary: ArcelorMittal Dofasco: discoloured water in Ottawa St slip  
Incident Cause: Discharge Or Bypass To A Watercourse  
Incident Reason: Surface Water Pollution  
Nature of Impact: Sewage - Municipal/Private and Commercial  
Receiving Medium:  
Environmental Impact: Confirmed
| Site: ArcelorMittal Dofasco Inc. | Database: SPL |
| Piers 20-21 Port of Hamilton Hamilton ON |
| Ref No.: 4076-8Q8R3C |
| Incident Dt: 05-JAN-12 |
| MOE Reported Dt: 05-JAN-12 |
| Contaminant Name: UNKNOWN |
| Incident Summary: ArcelorMittal Dofasco: unknown substance in Ottawa slip |
| Incident Cause: Unknown |
| Incident Reason: Unknown - Reason not determined |
| Nature of Impact: Surface Water Pollution |
| Receiving Medium: Sewage - Municipal/Private and Commercial |
| Environmental Impact: Confirmed |

| Site: ArcelorMittal Dofasco Inc. | Database: SPL |
| Piers 20-21 Port of Hamilton Hamilton ON |
| Ref No.: 8855-8QCS7P |
| Incident Dt: 09-JAN-12 |
| MOE Reported Dt: 09-JAN-12 |
| Contaminant Name: DUST (N.O.S.) |
| Incident Summary: ArcelorMittal Dofasco: #3 blast furnace, emission, 5 min |
| Incident Cause: Discharge or Emission to Air |
| Incident Reason: Air Pollution |
| Nature of Impact: Sewage - Municipal/Private and Commercial |
| Environmental Impact: Possible |

| Site: ArcelorMittal Dofasco Inc. | Database: SPL |
| Piers 20-21 Port of Hamilton Hamilton ON |
| Ref No.: 1348-8UD5TY |
| Incident Dt: 16-MAY-12 |
| MOE Reported Dt: 16-MAY-12 |
| Contaminant Name: LUBRICANT OIL(LUBE OIL) |
| Incident Summary: ArcelorMittal Dofasco: 5 L lubricant/water mix to catchbasin |
| Incident Cause: Unknown |
| Incident Reason: Unknown - Reason not determined |
| Nature of Impact: Sewage - Municipal/Private and Commercial |
| Environmental Impact: Confirmed |

| Site: ArcelorMittal Dofasco Inc. | Database: SPL |
| Piers 20-21 Port of Hamilton Hamilton ON |
| Ref No.: 2336-8VNNB7 |
| Incident Dt: 27-JUN-12 |
| MOE Reported Dt: 27-JUN-12 |
| Contaminant Name: Clarified Water |
| Incident Summary: ArcelorMittal: clarified water to Ottawa slip |
| Incident Cause: Discharge Or Bypass To A Watercourse |
Site: ArcelorMittal Dofasco Inc.
Piers 20-21 Port of Hamilton Hamilton ON

Ref No.: 8311-8QDP7R
Incident Dt: 10-JAN-12
MOE Reported Dt: 10-JAN-12
Contaminant Name: HYDRAULIC OIL
Contaminant Quantity: 757 L
Incident Summary: ArcelorMittal Dofasco: 757 L Hydraulic oil to outfall, cleaning.
Incident Cause: Pipe Or Hose Leak
Incident Reason: Error- Operator error
Nature of Impact: Surface Water Pollution
Receiving Medium: Sewage - Municipal/Private and Commercial
Environmental Impact: Confirmed

Site: ArcelorMittal Dofasco Inc.
Piers 20-21 Port of Hamilton Hamilton ON

Ref No.: 7782-8UMC8S
Incident Dt: 25-MAY-12
MOE Reported Dt: 25-MAY-12
Contaminant Name: WATER
Contaminant Quantity: 20 000 gal
Incident Summary: ArcelorMittal Dofasco: Quench station overflow. Hamilton
Incident Cause: Overflow (Tanks Lagoons)
Incident Reason: Error- Operator error
Nature of Impact: Surface Water Pollution
Receiving Medium: Sewage - Municipal/Private and Commercial
Environmental Impact: Not Anticipated

Site: ArcelorMittal Dofasco Inc.
Piers 20-21 Port of Hamilton Hamilton ON

Ref No.: 5020-8QNP6C
Incident Dt: 19-JAN-12
MOE Reported Dt: 19-JAN-12
Contaminant Name: COOLING WATER
Contaminant Quantity: 42 000 gal
Incident Summary: ArcelorMittal: 42 000 gal cooling water to Ottawa St. slip
Incident Cause: Discharge Or Bypass To A Watercourse
Incident Reason: Spill
Nature of Impact: Surface Water Pollution
Receiving Medium: Sewage - Municipal/Private and Commercial
Environmental Impact: Not Anticipated

Site: ArcelorMittal Dofasco Inc.
Piers 20-21 Port of Hamilton Hamilton ON

Ref No.: 7152-8RWPCE
Incident Dt: 28-FEB-12
MOE Reported Dt: 28-FEB-12
Contaminant Name: SUSPENDED SOLIDS [N.O.S.]
Contaminant Quantity: ArcelorMittal Dofasco: discoloured water to Ottawa slip
Incident Summary: Discharge Or Bypass To A Watercourse
Incident Cause: Surface Water Pollution
Incident Reason: Sewage - Municipal/Private and Commercial
Nature of Impact: Confirmed
Receiving Medium: Suspected
Environmental Impact: Confirmed

Site: ARCELORMITTAL DOFASCO
HAMILTON ON

Year: 2009
Works Id: 247
Company Code: 0001460005
SIC: 2912
SIC Desc: STEEL FOUNDRIES
Sector: IRON AND STEEL
Region: MOE WEST CENTRAL REGION
District: MOE HAMILTON DISTRICT
Body of Water: LAKE ONTARIO
Terminal Stream: 
Minor Basin: 
Major Basin: 
Mailing Address: POST OFFICE BOX 460, HAMILTON, ONTARIO, CANADA, L8N3J5
Corp Address: , P.O. BOX 460, HAMILTON, ONTARIO, CANADA, L8N3J5

--- Details ---
IMIS Control Point: 0100
Control Point: ONCE-THROUGH COOLING WATER
+ IMIS Control Point: 0300
Control Point: ONCE-THROUGH COOLING WATER
+ IMIS Control Point: 0400
Control Point: COMBINED EFFLUENT
+ IMIS Control Point: 0600
Control Point: PROCESS EFFLUENT
+ IMIS Control Point: 0800
Control Point: PROCESS EFFLUENT
+ IMIS Control Point: 1200
Control Point: ONCE-THROUGH COOLING WATER
+ IMIS Control Point: 1700
Control Point: ONCE-THROUGH COOLING WATER
+ IMIS Control Point: 2000
Control Point: PROCESS EFFLUENT
+ IMIS Control Point: 2100
Control Point: PLANT - PROCESS EFFLUENT
+ IMIS Control Point: 2200
Control Point: PLANT - COMBINED EFFLUENT
+ IMIS Control Point: 2300
Control Point: PLANT - O.T.C.W.
IMIS Control Point: 2400
  Control Point: ONCE-THROUGH COOLING WATER

+ IMIS Control Point: 2500
  Control Point: ONCE-THROUGH COOLING WATER

+ IMIS Control Point: 2700
  Control Point: ONCE-THROUGH COOLING WATER

+ IMIS Control Point: 2800
  Control Point: ONCE-THROUGH COOLING WATER
Appendix: Database Descriptions

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

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

*Government Publication Date: Sept 2002*

**Aggregate Inventory:**
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 Aug 2012*

**Abandoned Mine Information System:**
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-Jan 2014*

**Anderson's Waste Disposal Sites:**
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:**
This database provides an inventory of all known locations that are involved in the scrap metal, automobile wrecking/recycling, and automobile parts & supplies industry. Information is provided on the company name, location and business type.

*Government Publication Date: 2001-Jul 2014*
**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-Aug 2011*

**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: 1948-Apr 2013*

**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: 1992, 1999-Jul 2014*

**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-Feb 2014*

**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-Sep 2014*
**Drill Hole Database:**
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-Jan 2014

**Environmental Activity and Sector Registry:**
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 31 2011-Sep 2014

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

**Government Publication Date:** 1994-Sep 2014

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

**Government Publication Date:** Oct 31, 2011-Sep 2014

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

**Government Publication Date:** 1999-Mar 2013
Environmental Issues Inventory System: Federal EIIIS
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 EIIIS 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*

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: Current to May 2013

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

Government Publication Date: June 2000-Sep 2014

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

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: 2010-May 2013

Fuel Storage Tank - Historic: Provincial FSTH
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: Pre-Jan 2010*
**Ontario Regulation 347 Waste Generators Summary:**
Provincial  GEN
Regulation 347 of the Ontario EPA defines a waste generation site as any site, equipment and/or operation involved in the production, collection, handling and/or storage of regulated wastes. A generator of regulated waste is required to register the waste generation site and each waste produced, collected, handled, or stored at the site. This database contains the registration number, company name and address of registered generators including the types of hazardous wastes generated. It includes data on waste generating facilities such as: drycleaners, waste treatment and disposal facilities, machine shops, electric power distribution etc. This information is a summary of all years from 1986 including the most currently available data. Some records may contain, within the company name, the phrase "See & Use..." followed by a series of letters and numbers. This occurs when one company is amalgamated with or taken over by another registered company. The number listed as "See & Use", refers to the new ownership and the other identification number refers to the original ownership. This phrase serves as a link between the 2 companies until operations have been fully transferred.

**Government Publication Date:** 1986-Apr 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 all aboveground & underground fuel storage tanks located on both federal and crown land. Our inventory provides information on the reserve name, location, facility type, site/facility name, tank type, material & ID number, tank contents & capacity, and date of tank installation.

**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:** June 2009-Apr 2013

**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:** 2012
**Canadian Mine Locations:**
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:**
In the early 70's, the Ministry of Northern Development and Mines created an inventory of approximately 19,000 mineral occurrences in Ontario, in regard to metallic and industrial minerals, as well as some information on building stones and aggregate deposits. Please note that the "Horizontal Positional Accuracy" is approximately +/- 200 m. Many reference elements for each record were derived from field sketches using pace or chain/tape measurements against claim posts or topographic features in the area. The primary limiting factor for the level of positional accuracy is the scale of the source material. The testing of horizontal accuracy of the source materials was accomplished by comparing the planimetric (X and Y) coordinates of that point with the coordinates of the same point as defined from a source of higher accuracy.

*Government Publication Date: 1846-Apr 2013*

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

*Government Publication Date: 1974-1994*

**Non-Compliance Reports:**
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: 1994-2012*

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

*Government Publication Date: Up to May 2001*

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

*Government Publication Date: Mar 1999-Aug 2010*

**National Defence & Canadian Forces Waste Disposal Sites:**
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 Environmental Emergencies System (NEES):**

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

*Government Publication Date: 1974-2003*

**National PCB Inventory:**

Environment Canada's National PCB inventory includes information on in-use PCB containing equipment in Canada including federal, provincial and private facilities. All federal out-of-service PCB containing equipment and all PCB waste owned by the federal government or by federally regulated industries such as airlines, railway companies, broadcasting companies, telephone and telecommunications companies, pipeline companies, etc. are also listed. Although it is not Environment Canada's mandate to collect data on non-federal PCB waste, the National PCB inventory includes some information on provincial and private PCB waste and storage sites. 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:**

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: 1993-2012*

**Oil and Gas Wells:**

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-Sep 2014*

**Ontario Oil and Gas Wells:**

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

*Government Publication Date: 1800-2013*

**Inventory of PCB Storage Sites:**

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*
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-Sep 2014

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.

Parks Canada Fuel Storage Tanks: Federal PCFT
Canadian Heritage maintains an inventory of all known fuel storage tanks operated by Parks Canada, in both National Parks and at National Historic Sites. The database details information on site name, location, tank install/removal date, capacity, fuel type, facility type, tank design and owner/operator.
Government Publication Date: 1920-Jan 2005*

Pesticide Register: Provincial PES
The Ontario Ministry of Environment maintains a database of all manufacturers and vendors of registered pesticides.
Government Publication Date: 1988-Jun 2013

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: June 2009-Mar 2012

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-Sep 2014

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: 1986-2012
**Record of Site Condition:**
The Record of Site Condition (RSC) is part of the Ministry of the Environment's Brownfields Environmental Site Registry. Protection from environmental cleanup orders for property owners is contingent upon documentation known as a record of site condition (RSC) being filed in the Environmental Site Registry. In order to file an RSC, the property must have been properly assessed and shown to meet the soil, sediment and groundwater standards appropriate for the use (such as residential) proposed to take place on the property. The Record of Site Condition Regulation (O. Reg. 153/04) details requirements related to site assessment and clean up. RSCs filed after July 1, 2011 will also be included as part of the new (O.Reg. 511/09).


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

**Government Publication Date:** 1999-Jul 2014

**Scott's Manufacturing Directory:**
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:**
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-Feb 2014

**Wastewater Discharger Registration Database:**
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:** 1990-2011

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

**Government Publication Date:** 1970-Mar 2007

**TSSA Variances for Abandonment of Underground Storage Tanks:**
The TSSA, Under the Liquid Fuels Handling Code and the Fuel Oil Code, all underground storage tanks must be removed within two years of disuse. If removal of a tank is not feasible, you may apply to seek a variance from this code requirement. This is a list of all variances granted for abandoned tanks.
**Waste Disposal Sites - MOE CA Inventory:**
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: Current to Jun 2013**

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

**Government Publication Date: Up to Oct 1990**

**Water Well Information System:**
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: 1955-Mar 2014**
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 were included as reference.
Project Site: TBD
Discovery Drive
Hamilton, ON ONTARIO

Client: Liana Labreche
Dillon Consulting Limited
51 Breithaupt Street, Suite 200
Kitchener, ON N2H5G5

ERIS Project No: 20121207018
Report Type: Custom Report - .25km Search Radius
Prepared By: Shermin Haider
shaider@eris.ca

Date: March 08, 2013

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Report Summary

This outlines the number of records from each database that fall on the site, and within various distances from the site.

Site Diagram

The records that were found within a specified distance from the project property (the primary search radius) have been plotted on a diagram to provide you with a visual representation of the information available. Sites will be plotted on the diagram if there is sufficient information from the database source to determine accurate geographic coordinates. Each plotted site is marked with an acronym identifying the database in which the record was found (i.e., WDS for Waste Disposal Sites). These are referred to as “Map Keys”. A variety of problems are inherent when attempting to associate various government or private source records with locations. EcoLog ERIS has attempted to make the best fit possible between the available data and their positions on the site diagram.

Site Profile

This table describes the records that relate directly to the property that is being researched.

Detail Report

This section represents information, by database, for the records found within the primary search radius. Listed at the end of each database are the sites that could not be plotted on the locator diagram because of insufficient address information. These records will not have map keys. They have been included because they may be found to be relevant during a more detailed investigation.

Anderson’s Waste Disposal Sites
Borehole
Certificates of Approval
Coal Gasification Plants
Environmental Registry
ERIS Historical Searches
List of TSSA Expired Facilities
Contaminated Sites on Federal Land
Fuel Storage Tank
Ontario Regulation 347 Waste Generators Summary
TSSA Historic Incidents
National Analysis of Trends in Emergencies System (NATES)
National Environmental Emergencies System (NEES)
Pesticide Register
Private and Retail Fuel Storage Tanks
Ontario Regulation 347 Waste Receivers Summary
Record of Site Condition
Retail Fuel Storage Tanks
Scott’s Manufacturing Directory
Ontario Spills
Waste Disposal Sites - MOE 1991 Historical Approval Inventory
Water Well Information System

Appendix: Database Descriptions
# Report Summary

**Order Number:** 20121207018  
**Site Name:** TBD  
**Site Address:** Discovery Drive Hamilton, ON ONTARIO  
**Report Type:** Custom Report, 0.25 km Search Radius

## Number of Mappable Records Surrounding the Site

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The databases chosen by the client as per the submitted order form are denoted in the 'Selected' column in the above table. Counts have been provided outside the primary buffer area for cursory examination only. These records have not been examined or verified, therefore, they are subject to change.
This diagram is to be used solely for relative street location purposes. It may not accurately portray street or site positions.
## Site Report

**Order Number:** 20121207018  
**Site Name:** TBD  
**Site Address:** Discovery Drive Hamilton, ON ONTARIO  
**Report Type:** Custom Report, 0.25 km Search Radius

---

### Contaminated Sites on Federal Land

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### Ontario Regulation 347 Waste Generators Summary

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<td>47 Discovery Drive</td>
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## Site Report

**Order Number:** 20121207018  
**Site Name:** TBD  
**Site Address:** Discovery Drive Hamilton, ON ONTARIO  
**Report Type:** Custom Report, 0.25 km Search Radius

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### ERIS Historical Searches

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<th>Postal Code</th>
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<tbody>
<tr>
<td>GEN-36</td>
<td>DEPT. OF NATIONAL DEFENCE</td>
<td>650 CATHERINE STREET NORTH BUILDING 16 C.F.R.B.</td>
<td>HAMILTON</td>
<td>L8L 4V7</td>
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<tr>
<td>GEN-37</td>
<td>GVT. OF CAN. - NATIONAL DEFENCE</td>
<td>HMCS STAR CATHERINE STREET NORTH</td>
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<tr>
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<tr>
<td>GEN-39</td>
<td>HMCS Toronto</td>
<td>658 Catharine Street North Pier 9</td>
<td>Hamilton</td>
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<tr>
<td>GEN-40</td>
<td>The Royal Hamilton Yacht Club</td>
<td>Foot of MacNab St North</td>
<td>Hamilton</td>
<td>L8L 1H1</td>
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<tr>
<td>GEN-41</td>
<td>The Royal Hamilton Yacht Club</td>
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<tr>
<td>GEN-42</td>
<td>The Royal Hamilton Yacht Club</td>
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### Private and Retail Fuel Storage Tanks

<table>
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<tr>
<td>EHS-1</td>
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<td>Part of Pier 8</td>
<td>Hamilton</td>
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<td>EHS-2</td>
<td></td>
<td>Catharine Street North</td>
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<td>EHS-4</td>
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<td>650 Catherine St North</td>
<td>Hamilton</td>
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<tr>
<td>PRT-1</td>
<td>REGIONAL MUNICIPALITY OF HAMILTON WENTWORTH POLICE</td>
<td>HUGHSON ST MARINE DOCK</td>
<td>HAMILTON</td>
<td></td>
</tr>
<tr>
<td>PRT-2</td>
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<td>65 GUISE ST</td>
<td>HAMILTON</td>
<td>L8L 8B4</td>
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<tr>
<td>PRT-3</td>
<td>LAIDLAW WASTE SYSTEMS</td>
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<td>PRT-4</td>
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<td>HAMILTON</td>
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### Borehole

<table>
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<tr>
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<td>BORE-4</td>
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<td>BORE-5</td>
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FOR COMPLETE INFORMATION, REFER TO DETAIL REPORT
# Site Report

**Order Number:** 20121207018  
**Site Name:** TBD  
**Site Address:** Discovery Drive Hamilton, ON ONTARIO  
**Report Type:** Custom Report, 0.25 km Search Radius  

## List of TSSA Expired Facilities

<table>
<thead>
<tr>
<th>Map Key</th>
<th>Company Name</th>
<th>Address</th>
<th>City</th>
<th>Postal Code</th>
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</thead>
<tbody>
<tr>
<td>EXP-1</td>
<td>LAIDLAW WASTE SYSTEMS CANADIAN WASTE SERVICES INC</td>
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## Retail Fuel Storage Tanks

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>RST-2</td>
<td>ROYAL HAMILTON YACHT CLUB</td>
<td>FOOT OF MACNAB N</td>
<td>HAMILTON</td>
<td>L8L1H1</td>
</tr>
</tbody>
</table>
If information is required for sites located beyond the selected address, please contact your ERIS representative.

Anderson's Waste Disposal Sites
Borehole
Certificates of Approval
Coal Gasification Plants
Environmental Registry
ERIS Historical Searches
List of TSSA Expired Facilities
Contaminated Sites on Federal Land
Fuel Storage Tank
Ontario Regulation 347 Waste Generators Summary
TSSA Historic Incidents
National Analysis of Trends in Emergencies System (NATES)
National Environmental Emergencies System (NEES)
Pesticide Register
Private and Retail Fuel Storage Tanks
Ontario Regulation 347 Waste Receivers Summary
Record of Site Condition
Retail Fuel Storage Tanks
Scott's Manufacturing Directory
Ontario Spills
Waste Disposal Sites - MOE 1991 Historical Approval Inventory
Water Well Information System
## Anderson's Waste Disposal Sites

<table>
<thead>
<tr>
<th>Map Key</th>
<th>Name</th>
<th>Facility</th>
<th>Location</th>
<th>City/Town</th>
<th>Known Active Decade</th>
<th>Reference #</th>
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<tbody>
<tr>
<td>ANDR-1</td>
<td>Eastwood Pk Dump</td>
<td>Dump</td>
<td>Eastwood Park; Mary St &amp; Burlington St E</td>
<td>Hamilton</td>
<td>1920s</td>
<td>MOEE 0032</td>
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**Related Site(s)**
<table>
<thead>
<tr>
<th>Map Key</th>
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<th>Type</th>
<th>Use</th>
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<tbody>
<tr>
<td>BORE-1</td>
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<td></td>
<td>623789</td>
<td>Borehole</td>
<td>Geotechnical/Geological Investigation</td>
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**Status:**
- Drill Method: Jetting
- UTM Zone: 17
- Easting: 592484.000
- Northing: 4792103.000

**Location Accuracy:**
- Orig. Ground Elevation(m): 75
- Elev. Reliability Note: 75
- DEM Ground Elevation(m): 999.000000
- Primary Name: 75
- Township: Concession:
- Lot: Municipality
- Completion Date: 1961-MAY
- Static Water Level:
- Primary Water Use: Not Used
- Secondary Water Use:
- Location Description:

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<tr>
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<th>Bottom Depth(m)</th>
<th>Stratum Desc</th>
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<td>WATER.</td>
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<td>10.700000</td>
<td>SAND(50)- MEDIUM, SILT(48), ORGANIC, BROWN, LACUSTRINE, VERY LOOSE, AGE POST-GLACIAL.</td>
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<tr>
<td>218430985</td>
<td>10.700000</td>
<td>25.100000</td>
<td>CLAY, SILT, SAND, GRAVEL, GREEN, LACUSTRINE, VERY SOFT, AGE GLACIAL, REFUSAL OF ENTRY, BEDROCK.</td>
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<td></td>
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<tr>
<td>BORE-2</td>
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<td>621642</td>
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- **Status:**
- **Drill Method:** Power auger
- **UTM Zone:** 17
- **Easting:** 592534.000
- **Northing:** 4791893.000
- **Location Accuracy:**
- **Orig. Ground Elevation(m):** 80.800003
- **Elev. Reliability Note:**
- **DEM Ground Elevation(m):** 80.300003

- **Total Depth(m):** 2
- **Primary Name:**
- **Township:**
- **Concession:**
- **Lot:**
- **Municipality Completion Date:** 1968-SEP
- **Static Water Level:**
- **Primary Water Use:** Not Used
- **Secondary Water Use:**
- **Location Description:**

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<th>Stratum ID</th>
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<tr>
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</tr>
<tr>
<td>218421824</td>
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### Borehole

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<td>Geotechnical/Geological Investigation</td>
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- **Map Key**: BORE-3
- **Status**:  
- **Drill Method**: Power auger
- **UTM Zone**: 17
- **Easting**: 592554.000
- **Northing**: 4791903.000
- **Location Accuracy**:
- **Orig. Ground Elevation(m)**: 80.800003
- **Elev. Reliability Note**:
- **DEM Ground Elevation(m)**: 80.900002
- **Total Depth(m)**: 8.100000
- **Primary Name**:  
- **Township**:  
- **Concession**:  
- **Lot**:  
- **Municipality Completion Date**: 1968-SEP  
- **Static Water Level**:  
- **Primary Water Use**: Not Used  
- **Secondary Water Use**:  
- **Location Description**:  

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<tbody>
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## Borehole

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**Status:**

- **Drill Method:** Power auger
- **UTM Zone:** 17
- **Easting:** 592394.000
- **Northing:** 4791923.000

**Location Accuracy:**

- **Orig. Ground Elevation(m):** 76.699997
- **Elev. Reliability Note:**
- **DEM Ground Elevation(m):** 74.900002
- **Total Depth(m):** 5.100000

**Primary Name:**

- **Township:**
- **Concession:**
- **Lot:**
- **Municipality:**
- **Completion Date:** 1969-MAR

**Static Water Level:**

- **Primary Water Use:** Not Used
- **Secondary Water Use:**

**Location Description:**

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**BORE-6**

**Status:**

- Drill Method: Jetting
- UTM Zone: 17
- Easting: 592474.000
- Northing: 4792143.000
- Location Accuracy:
  - Orig. Ground Elevation(m): 74.800003
  - Elev. Reliability Note: 75
  - DEM Ground Elevation(m): 26.799999

**Primary Name:**

- Township: 
- Concession: 
- Lot: 
- Municipality: 
- Completion Date: 1961-APR

**Static Water Level:**

- Primary Water Use: Not Used
- Secondary Water Use: 
- Location Description: 

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Status:  
Drill Method: Power auger  
UTM Zone: 17  
Easting: 592594.000  
Northing: 4791913.000  
Location Accuracy:  
Orig. Ground Elevation(m): 80.800003  
Elev. Reliability Note:  
DEM Ground Elevation(m): 81.300003  
Total Depth(m): 5  
Primary Name:  
Township:  
Concession:  
Lot:  
Municipality Completion Date: 1968-SEP  
Static Water Level:  
Primary Water Use: Not Used  
Secondary Water Use:  
Location Description:  

<table>
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<tr>
<th>Stratum ID</th>
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## Borehole

<table>
<thead>
<tr>
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<th>Type</th>
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**Status:**

**Drill Method:** Power auger

**UTM Zone:** 17

**Easting:** 592594.000

**Northing:** 4791873.000

**Location Accuracy:**

**Orig. Ground Elevation(m):** 80.800003

**Elev. Reliability Note:**

**DEM Ground Elevation(m):** 81.300003

**Primary Depth:** 0.800000

**Primary Name:**

**Township:**

**Concession:**

**Lot:**

**Municipality:**

**Completion Date:** 1968-SEP

**Static Water Level:**

**Primary Water Use:** Not Used

**Secondary Water Use:**

**Location Description:**

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<tr>
<th>Stratum ID</th>
<th>Top Depth(m)</th>
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## Borehole

<table>
<thead>
<tr>
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<th>Address</th>
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<th>Type</th>
<th>Use</th>
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<tbody>
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**Status:**
- Drill Method: Jetting
- UTM Zone: 17
- Easting: 592394.000
- Northing: 4792163.000

**Location Accuracy:**
- Orig. Ground Elevation(m): 75.099998
- Elev. Reliability Note: 75.300003
- DEM Ground Elevation(m): -999.000000

**Primary Name:**
- Township: 020024035004450290078005

**Municipality:**
- Completion Date: 1961-APR
- Static Water Level: Not Used
- Primary Water Use: Not Used
- Secondary Water Use: Not Used
- Location Description: Not Used

**Stratum ID** | **Top Depth(m)** | **Bottom Depth(m)** | **Stratum Desc**
---|---|---|---
218430971 | 0 | 7.300000 | WATER, SILT(56), SAND(32), ORGANIC, BROWN, LACUSTRINE, VERY LOOSE, AGE POST-GlacIAL.
218430972 | 7.300000 | 13.600000 | CLAY(48), SILT(38), SAND(14), GRAVEL, GREEN, LACUSTRINE, VERY SOFT, AGE GLACIAL.
218430973 | 13.600000 | 23.799999 | CLAY, SILT, SAND, GRAVEL, GREEN, LACUSTRINE, HARD, AGE GLACIAL.
218430974 | 23.799999 | 25.100000 | REFUSAL OF ENTRY, BEDROCK. 020024035004450290078005 2
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Status:  
Drill Method: Power auger  
UTM Zone: 17  
Easting: 592384.000  
Northing: 4791853.000  
Location Accuracy:  
Orig. Ground Elevation(m): 80  
Elev. Reliability Note:  
DEM Ground Elevation(m): 78.500000  
Total Depth(m): 9.900000  
Primary Name:  
Township:  
Concession:  
Lot:  
Municipality  
Completion Date: 1965-APR  
Static Water Level:  
Primary Water Use: Not Used  
Secondary Water Use:  
Location Description:  

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<td>218420839</td>
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<td>8.700000</td>
<td>SILT(67), CLAY(13), SAND(20), GREEN, DENSE, BEDDED, AGE GLACIAL.</td>
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<td>218420840</td>
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Status:  
Drill Method: Power auger  
UTM Zone: 17  
Easting: 592674.000  
Northing: 479153.000  
Location Accuracy:  
Orig. Ground Elevation(m): 83  
Elev. Reliability Note:  
DEM Ground Elevation(m): 80.400002  
Total Depth(m): 14.100000  
Primary Name:  
Township:  
Concession:  
Lot:  
Municipality  
Completion Date: 1966-JUL  
Static Water Level: 0.500000  
Primary Water Use: Not Used  
Secondary Water Use:  
Location Description:  

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<td>BORE-12</td>
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**Status:**
- Drill Method: Power auger
- UTM Zone: 17
- Easting: 592384.000
- Northing: 4791823.000

**Location Accuracy:**
- Orig. Ground Elevation(m): 82.300003
- Elev. Reliability Note:
- DEM Ground Elevation(m): 80.099998
- Total Depth(m): 14.500000

**Primary Name:**
- Town: Concession:
- Lot:
- Municipality:
- Completion Date: 1969-MAR
- Static Water Level: 0.300000
- Primary Water Use: Not Used
- Secondary Water Use:
- Location Description:

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<tr>
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<td>SAND-MEDIUM, SILT, BROWN,DENSE, LAYERED, AGE QUATERNARY, WATER STABLE AT 269.0 FEET.</td>
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<tr>
<td>218437383</td>
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<td>SILT,CLAY, SAND, GREEN, VERY DENSE, SEAMS, AGE QUATERNARY.</td>
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<td>218437384</td>
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**Status:**
- Drill Method: Power auger
- UTM Zone: 17
- Easting: 592694.000
- Northing: 4791903.000

**Location Accuracy:**
- Origin Ground Elevation(m): 82.900002
- Elev. Reliability Note: SAND-MEDIUM,SILT.
- DEM Ground Elevation(m): 80.500000
- Total Depth(m): 12.200000

**Primary Name:**
- Township:
- Concession:
- Lot:
- Municipality:
- Completion Date: 1966-JUL
- Static Water Level: 0.600000

**Primary Water Use:** Not Used

**Secondary Water Use:** FILL, SAND, GRAVEL, STONES. RED.

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## Borehole

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**Status:**
- Drill Method: Power auger
- UTM Zone: 17
- Easting: 592664.000
- Northing: 479153.000
- Location Accuracy: 
- Orig. Ground Elevation(m): 81.199997
- Elev. Reliability Note: 
- DEM Ground Elevation(m): 80.699997
- Total Depth(m): 6.40000
- Primary Name: 
- Concession: 
- Lot: 
- Municipality: 
- Completion Date: 1966-JUL
- Static Water Level: 0.400000
- Primary Water Use: Not Used
- Secondary Water Use: 
- Location Description: 

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## Borehole

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**Status:**
- **Drill Method:** Jetting
- **UTM Zone:** 17
- **Easting:** 592314.000
- **Northing:** 4792193.000
- **Location Accuracy:**
  - **Orig. Ground Elevation(m):** 74.800003
  - **Elev. Reliability Note:**
  - **DEM Ground Elevation(m):** 74.599998

**Primary Name:**
- **Township:**
- **Concession:**
- **Lot:**
- **Municipality:**
- **Completion Date:** 1961-APR
- **Static Water Level:**
- **Primary Water Use:** Not Used
- **Secondary Water Use:**

**Location Description:**

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**Status:**
- **Drill Method:** Power auger
- **UTM Zone:** 17
- **Easting:** 592354.000
- **Northing:** 4791763.000

**Location Accuracy:**
- **Orig. Ground Elevation(m):** 83.300003
- **Elev. Reliability Note:**
- **DEM Ground Elevation(m):** 81.599998

**Total Depth(m):** 9.800000

**Primary Name:**
- **Township:**
- **Concession:**
- **Lot:**

**Municipality:**
- **Completion Date:** 1969-MAR

**Static Water Level:**
- **Primary Water Use:** Not Used
- **Secondary Water Use:**

**Location Description:**

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**Status:**
- Drill Method: Power auger
- UTM Zone: 17
- Easting: 592764.000
- Northing: 4791553.000

**Location Accuracy:**
- Orig. Ground Elevation(m): 76.699997
- Elev. Reliability Note:
- DEM Ground Elevation(m): 78.400002
- Total Depth(m): 5.600000

**Primary Name:**
- Township:
- Concession:
- Lot:
- Municipality:
- Completion Date: 1965-APR
- Static Water Level:
- Primary Water Use: Not Used
- Secondary Water Use:
- Location Description:

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**Status:**

**Drill Method:** Power auger

**UTM Zone:** 17

**Easting:** 592254.000

**Northing:** 4791833.000

**Location Accuracy:**

**Orig. Ground Elevation(m):** 84.400002

**Elev. Reliability Note:**

**DEM Ground Elevation(m):** 78.900002

**Total Depth(m):** 7

**Primary Name:**

**Township:**

**Concession:**

**Lot:**

**Municipality**

**Completion Date:** 1966-MAY

**Static Water Level:** 0.500000

**Primary Water Use:** Not Used

**Secondary Water Use:**

**Location Description:**

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<tr>
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<td>BORE-21</td>
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Status: 
Drill Method: Power auger
UTM Zone: 17
Easting: 592774.000
Northing: 4792003.000
Location Accuracy:
Orig. Ground Elevation(m): 76.199997
Elev. Reliability Note:
DEM Ground Elevation(m): 77
Total Depth(m): 7.600000
Primary Name: 
Township: 
Concession: 
Lot: 
Municipality
Completion Date: 1964-OCT
Static Water Level: 
Primary Water Use: Not Used
Secondary Water Use: 
Location Description:

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**Status:**

**Drill Method:** Power auger

**UTM Zone:** 17

**Easting:** 592794.000

**Northing:** 4792043.000

**Location Accuracy:**

**Orig. Ground Elevation(m):** 76.19997

**Elev. Reliability Note:**

**DEM Ground Elevation(m):** 75.69997

**Total Depth(m):** 4.600000

**Primary Name:**

**Township:**

**Concession:**

**Lot:**

**Municipality:**

**Completion Date:** 1964-OCT

**Static Water Level:**

**Primary Water Use:** Not Used

**Secondary Water Use:**

**Location Description:**

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**Status:**
- **Drill Method:** Power auger
- **UTM Zone:** 17
- **Easting:** 592804.000
- **Northing:** 4792053.000

**Location Accuracy:**
- **Orig. Ground Elevation(m):** 76.099998
- **Elev. Reliability Note:**
- **DEM Ground Elevation(m):** 75.300003

**Total Depth(m):** 8.10000

**Primary Name:**
- **Township:**
- **Concession:**
- **Lot:**

**Municipality**

**Completion Date:** 1970-MAY

**Static Water Level:** 0.200000

**Primary Water Use:** Not Used

**Secondary Water Use:**

**Location Description:**

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<tr>
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<td>FILL, SILT, SAND, ORGANIC. BROWN, LOOSE, WATER STABLE AT 249.1 FEET. CLAY, SILT, SAND. BROWN, COMPACT, LAYERED, AGE QUATERNARY.</td>
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**Location Description:**

- **Power auger**
- **UTM Zone:** 17
- **Easting:** 592804.000
- **Northing:** 4792053.000
- **Location Accuracy:**
- **Orig. Ground Elevation(m):** 76.099998
- **Elev. Reliability Note:**
- **DEM Ground Elevation(m):** 75.300003

**Total Depth(m):** 8.10000

**Primary Name:**
- **Township:**
- **Concession:**
- **Lot:**

**Municipality**

**Completion Date:** 1970-MAY

**Static Water Level:** 0.200000

**Primary Water Use:** Not Used

**Secondary Water Use:**

**Location Description:**

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<td>218437480</td>
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<td>4.900000</td>
<td>FILL, SILT, SAND, ORGANIC. BROWN, LOOSE, WATER STABLE AT 249.1 FEET. CLAY, SILT, SAND. BROWN, COMPACT, LAYERED, AGE QUATERNARY.</td>
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**Status:**

**Drill Method:** Power auger

**UTM Zone:** 17

**Easting:** 592584.000

**Northing:** 4791703.000

**Location Accuracy:**

**Orig. Ground Elevation(m):** 81.300003

**Elev. Reliability Note:**

**DEM Ground Elevation(m):** 81.699997

**Total Depth(m):** 12.200000

**Primary Name:**

**Township:**

**Concession:**

**Lot:**

**Municipality Completion Date:** 1965-APR

**Static Water Level:**

**Primary Water Use:** Not Used

**Secondary Water Use:**

**Location Description:**

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<td>SAND-MEDIUM TO COARSE, SILT, GREEN, DENSE, LAYERED, AGE GLACIAL.</td>
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## Borehole

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**Status:**

- **Drill Method:** Jetting
- **UTM Zone:** 17
- **Easting:** 592494.000
- **Northing:** 4792333.000
- **Location Accuracy:**
  - **Orig. Ground Elevation(m):** 74.900002
  - **Elev. Reliability Note:**
  - **DEM Ground Elevation(m):** 74.599998
- **Total Depth(m):** 26.799999

**Primary Name:**

- **Township:**
- **Concession:**
- **Lot:**
- **Municipality:**
- **Completion Date:** 1961-APR
- **Static Water Level:**
- **Primary Water Use:** Not Used
- **Secondary Water Use:**
- **Location Description:**

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### Borehole

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**Status:**

**Drill Method:** Power auger

**UTM Zone:** 17

**Easting:** 592234.000

**Northing:** 4791773.000

**Location Accuracy:**

**Orig. Ground Elevation(m):** 85.300003

**Elev. Reliability Note:**

**DEM Ground Elevation(m):** 83.400002

**Total Depth(m):** 7.600000

**Primary Name:**

**Township:**

**Concession:**

**Lot:**

**Municipality:**

**Completion Date:** 1966-MAY

**Static Water Level:** 0.500000

**Primary Water Use:** Not Used

**Secondary Water Use:**

**Location Description:**

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## Borehole

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**Status:**
- Drill Method: Jetting
- UTM Zone: 17
- Easting: 592364.000
- Northing: 4792333.000
- Location Accuracy:
- Orig. Ground Elevation(m): 75
- Elev. Reliability Note:
- DEM Ground Elevation(m): 74.800003
- Total Depth(m): 25.900000
- Primary Name:
- Township:
- Concession:
- Lot:
- Municipality
- Completion Date: 1961-APR
- Static Water Level:
- Primary Water Use: Not Used
- Secondary Water Use:
- Location Description:

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<td>218430980</td>
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Status:
- Drill Method: Jetting
- UTM Zone: 17
- Easting: 592734.000
- Northing: 4792253.000
- Location Accuracy:
  - Orig. Ground Elevation(m): 74.699997
  - Elev. Reliability Note:
  - DEM Ground Elevation(m): 75
- Total Depth(m): 29.299999
- Primary Name:
- Township:
- Concession:
- Lot:
- Municipality:
- Completion Date: 1961-APR
- Static Water Level:
- Primary Water Use: Not Used
- Secondary Water Use:
- Location Description:

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### Borehole Details

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**Status:**
- Jetting
**UTM Zone:** 17
**Easting:** 592434.000
**Northing:** 4792353.000

**Location Accuracy:**
- Orig. Ground Elevation(m): 75
- Elev. Reliability Note:
- DEM Ground Elevation(m): 74.400002
**Total Depth(m):** 25.600000

**Primary Name:**
- Township:
- Concession:
- Lot: Jetting
**Municipality Completion Date:** 1961-APR
**Static Water Level:**
- Primary Water Use: Not Used
- Secondary Water Use:

**Location Description:**

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<td>BORE-35</td>
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Status:
Drill Method: Power auger
UTM Zone: 17
Easting: 592214.000
Northing: 4791743.000
Location Accuracy:
Orig. Ground Elevation(m): 85.300003
Elev. Reliability Note:
DEM Ground Elevation(m): 84.699997
Total Depth(m): 11.200000
Primary Name:
Township:
Concession:
Lot:
Municipality
Completion Date: 1969-MAR
Static Water Level:
Primary Water Use: Not Used
Secondary Water Use:
Location Description:

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- **Status:**
- **Drill Method:** Jetting
- **UTM Zone:** 17
- **Easting:** 592374.000
- **Northing:** 4792385.000
- **Location Accuracy:**
- **Orig. Ground Elevation(m):** 74.900002
- **Elev. Reliability Note:**
- **DEM Ground Elevation(m):** 74.300003

**Total Depth(m):** 29.400000

**Primary Name:**

**Township:**

**Concession:**

**Lot:**

**Municipality:**

**Completion Date:** 1961-APR

**Static Water Level:**

**Primary Water Use:** Not Used

**Secondary Water Use:**

**Location Description:**

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## Borehole

### BORE-37

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**Status:**
- **Drill Method:** Diamond Drill
- **UTM Zone:** 17
- **Easting:** 592204.000
- **Northing:** 4791703.000
- **Location Accuracy:**
- **Orig. Ground Elevation(m):** 85.300003
- **Elev. Reliability Note:**
- **DEM Ground Elevation(m):** 85.099998
- **Total Depth(m):** 11.100000
- **Primary Name:**
- **Township:**
- **Concession:**
- **Lot:**
- **Municipality**
- **Completion Date:** 1969-MAR
- **Static Water Level:**
- **Primary Water Use:** Not Used
- **Secondary Water Use:**
- **Location Description:**

### Stratum Details

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Status: Drill Method:
UTM Zone: 17
Easting: 592784.000
Northing: 4791583.000
Location Accuracy:
Orig. Ground Elevation(m): 78.599998
Elev. Reliability Note:
DEM Ground Elevation(m): 80.199997
Total Depth(m): 8.400000
Primary Name:
Township:
Concession:
Lot:
Municipality
Completion Date:
Static Water Level:
Primary Water Use:
Secondary Water Use:
Location Description:

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**Status:**

**Drill Method:** Power auger  
**UTM Zone:** 17  
**Easting:** 592854.000  
**Northing:** 4791753.000  
**Location Accuracy:**  
**Orig. Ground Elevation(m):** 78.500000  
**Elev. Reliability Note:**  
**DEM Ground Elevation(m):** 78.900002  
**Total Depth(m):** 6.400000  
**Primary Name:**  
**Township:**  
**Concession:**  
**Lot:**  
**Municipality:**  
**Completion Date:** 1969-JUN  
**Static Water Level:** 0.200000  
**Primary Water Use:** Not Used  
**Secondary Water Use:**  
**Location Description:**

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## Borehole

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**Map Key** | **Company** | **Address** | **Borehole ID** | **Type** | **Use** |
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**Status:**

**Drill Method:** Power auger

**UTM Zone:** 17

**Easting:** 592834.000

**Northing:** 4791713.000

**Location Accuracy:**

**Orig. Ground Elevation (m):** 78.900002

**Elev. Reliability Note:**

**DEM Ground Elevation (m):** 79.900002

**Total Depth (m):** 10.400000

**Primary Name:**

**Township:**

**Concession:**

**Lot:**

**Municipality:**

**Completion Date:** 1969-JUN

**Static Water Level:**

**Primary Water Use:** Not Used

**Secondary Water Use:**

**Location Description:**

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Status:
Drill Method: Power auger
UTM Zone: 17
Easting: 592854.000
Northing: 4791703.000
Location Accuracy:
Orig. Ground Elevation(m): 79
Elev. Reliability Note:
DEM Ground Elevation(m): 80
Total Depth(m): 4.900000
Primary Name:
Township:
Concession:
Lot:
Municipality
Completion Date: 1969-JUN
Static Water Level: 0.200000
Primary Water Use: Not Used
Secondary Water Use:
Location Description:

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## Certificates of Approval

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<td>5706</td>
<td>2005</td>
<td>9/13/2005</td>
<td>Air</td>
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**Client Name:**

**Client Address:**

**Client City:**

**Client Postal Code:**

**Project Description:**

**Contaminants:**

**Emission Control:**

- Nitrogen Oxides
- Lead
- Suspended Particulate Matter, Nitrogen Oxides, Sulphur Dioxide, Benzene (Carcinogen Requires Bact), Thermal Incineration,
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## Certificates of Approval

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| n/a     | Petro-Canada     | Hamilton           | 2181-2007-78KMBW 2007 | 11/19/2007 | Industrial Sewage Works | Approved |

Client Name: The Corporation of the City of Hamilton
Client Address: 71 Main Street West
Client City: Hamilton
Client Postal Code: L8P 4Y5
Project Description: Watermain construction on John Street North.
### Vermont-Industrial Depew

#### Address
Hamilton

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<th>Facility Type</th>
<th>Size</th>
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<td>n/a</td>
<td>Hamilton By-Product Coke Ovens</td>
<td>Burlington-Industrial Depew Hamilton</td>
<td>Coke oven gasification</td>
<td>Large 7-8 hectare</td>
<td>30 M/5</td>
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**Planned Landuse:** As is  
**Present Landuse:** Heavy industrial  
**Landuse Adj Prop:** Heavy industrial  
**Ungrd Utilities:** Storm, combined and sanitary sewers along Burlington Street; storm sewer along Industrial  
**Soil Conditions:** Fill overlying clays and silts  
**Site Access:** Controlled  
**Operating Period:** 1924-1958 (34 years)  
**Surface Water:** Hamilton Harbour  
**Surface Water Prox:** Adjacent to plant site  
**Surface Water Use:** Industrial  
**Groundwater Prox:** High water table  
**Groundwater Use:** None  
**Existing Wells Prox:** None  
**Historical Map/Photo:** 1941 - fire insurance plan (Regional Collection, University of Western Ontario, Sheet 301); 1942 - plan of property required at Hamilton Ontario, by Dominion of Canada, Depot of Munitions and Supply (Hamilton Wentworth Regional Land Registry Office)  
**Operators:** United Gas and Fuel Co. of Hamilton (Hamilton By-Product Coke Ovens Ltd., 1924-1958)  
**Present Occupants:** Steel Company of Canada Ltd., Proctor and Gamble Inc.  
**Excavation History:** 0.6 m soil removed from Proctor and Gamble property as part of coke oven dismantling in 1947  
**Visible Wastes:** Yes, but none that can be solely attributed to operation of gas plant  
**Odour:** Yes, but none that can be solely attributed to operation of gas plant  
**Water Pollution:** Yes, but none that can be solely attributed to operation of gas plant  
**Site Investigations:** 1959 soil borings for construction of Proctor and Gamble warehouse  
**Comments/Remarks:** A heavy industrial area, the adjacent surface water body (Hamilton Harbour) is heavily contaminated with hydrocarbons. Impossible to distinguish gas plant wastes from other industrial wastes disposed in the area of the site  

**Poten Environ Impact:** The Hamilton-Mulberry Street gas works was a large retool coal gasification plant that operated from about the 1850s to mid 1920s. The exact starting and closing dates of plant operation are uncertain, but it is likely that the plant did not operate simultaneously with the Hamilton By-Product Coke Ovens which were constructed in the early 1920's. Both of these facilities were operated by the United Gas and Fuel Co. of Hamilton. The Mulberry Street plant was operated earlier under the name of the Hamilton Gas Light Co. The plant was mostly located on the south side of Mulberry Street between Bay Street North and Park Street North. A large 7,575 m³ capacity gas holding tank was located on the north side of Mulberry Street across from the main plant site. The former gas works property is now located in a mixed residential-commercial, light industrial use area. The main plant site is now occupied by a Bell Canada office, garage and storage area, and scrapyard of Canadian Iron and Metal Co. The site of the former gas holding tank situated north of Mulberry Street is now a building and parking lot of the Hamilton-Wentworth Separate School Board. Access to all of these properties is controlled by fences and gates. Burlington Bay is the closest surface water body and is located about 600 m north of the site.  

**Offsite Disposal Areas:** Uncertain, likely adjacent Hamilton Harbour
# Environmental Registry

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<tr>
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<th>Year</th>
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<td>EBR-1</td>
<td>Robert M. Park and Peter N. Pantitis</td>
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<td>2005</td>
<td>IA05E0151</td>
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<td>Petro Canada Products</td>
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# List of TSSA Expired Facilities

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<td>EXP-1</td>
<td>LAIDLAW WASTE SYSTEMS CANADIAN WASTE SERVICES INC</td>
<td>65 GUISE ST HAMILTON</td>
<td>398976</td>
<td>9924198</td>
<td>FS Facility</td>
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**Description:** FS Gasoline Station - Full Serve
## Contaminated Sites on Federal Land

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<td>00015137</td>
<td>C F 51314</td>
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**Location:**
- **Municipality:** Hamilton
- **Census Division:** Hamilton
- **Federal Electoral District:** Hamilton Centre
- **Nearest Populated Area:** Hamilton Centre

**Longitude:** -79.85926
**Latitude:** 43.27568

**Reporting Organization:** Department of Fisheries and Oceans

**Reason for Involvement:** Federal Real Property

**Est m³ Contaminated:** 0
**Est Ha Contaminated:** 0
**Est Tons Contaminated:** 0

**Site Management Strategy:** Identify Suspect Sites

**Highest Step Completed:** Unassessed

**Action Plan:** Unassessed

**Additional Info:** Unassessed

### Contaminant

- **Medium:**
- **Contaminant:**
## Contaminated Sites on Federal Land

### FCS-2

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<td>S-10775</td>
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<td>CFRB Hamilton/HMCS Star</td>
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**Location:**

- **Municipality:** Hamilton
- **Census Division:** Hamilton
- **Federal Electoral District:** Hamilton Centre
- **Nearest Populated Area:**
  - **Longitude:** -79.855144
  - **Latitude:** 43.27442
- **Reporting Organization:** National Defence
- **Reason for Involvement:** Federal Real Property

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<tr>
<td>Soil</td>
<td>PAHs (polycyclic aromatic hydrocarbon)</td>
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<tr>
<td>Soil</td>
<td>Metal, metalloid, and organometallic</td>
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<td>Soil</td>
<td>Other Physical/Chemical (pH, temperature, dissolved solids, turbidity, etc.)</td>
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</table>

**Est m³ Contaminated:** 0

**Est Ha Contaminated:** 14.8

**Est Tons Contaminated:** 0

**Site Management Strategy:** Periodic Monitoring

**Highest Step Completed:** Classify Contaminated Site Using the CCME National Classification System

**Action Plan:** April 2011 - Site Management Action plan produced by DCC for this site at a cost of $3027.54. Since it does not fall neatly into one of the 10 steps, this costs has not been accounted for against the project/site costs.

---

No plan at this time - The site is a former dump and reclaimed land from the harbour

### Additional Info:
### Contaminated Sites on Federal Land

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<tr>
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<th>Company</th>
<th>Address</th>
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### Fuel Storage Tank

#### License Issue Date

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#### Status, Capacity (L), Year of Installation, Corrosion Protection, Tank Fuel Type

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# Fuel Storage Tank

## Regional Municipality of Hamilton Wentworth Police Dept.

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## Ontario Regulation 347 Waste Generators Summary

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## Ontario Regulation 347 Waste Generators Summary

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## Ontario Regulation 347 Waste Generators Summary

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<td>Foot of MacNab St North Hamilton</td>
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<td>HINC-1</td>
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<td>595 Catharine Street North, HAMILTON</td>
<td>FS INC 0803-00920</td>
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<td>Pipeline Strike</td>
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**Status Desc:** Completed - Causal Analysis(End)

**Job Type Desc:** Incident/Near-Miss Occurrence (FS)

**Oper. Type Involved:** Commercial (e.g. restaurant, business unit, etc)

**Service Interruptions:** Yes

**Property Damage:** No

**Fuel Life Cycle Stage:** Utilization

**Root Cause:**
- Equipment/Material/Component: No
- Procedures: No
- Maintenance: No
- Design: No
- Training: No
- Management: Yes
- Human Factors: Yes

**Reported Details:**

**Fuel Category:** Gaseous Fuel

**Occurrence Type:** Near-miss

**Affiliation:** Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)

**County Name:** Hamilton

**Approx. Quant. Rel.:**

**Nearby body of water:**

**Enter Drainage Syst.:**

**Approx. Quant. Unit:**

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

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<tr>
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<th>Company</th>
<th>Address</th>
<th>File No.</th>
<th>Spill Date</th>
<th>Lead Agency</th>
<th>DOE on Scene</th>
<th>Reported By</th>
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<tbody>
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<td>MOE84530</td>
<td>841120</td>
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**Material Reaction:**
- Basin: St. Lawrence River Drainage
- Air: Y
- Land: 
- Fresh Water: 
- Ground Water: 
- Salt Water: 
- Other Environment: 

**Waterbody:**
- Cause: Pipe Leak
- Reason: Equipment Failure
- Source: Storage Depot
- 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: fuel oil no. 2
- Amount (ton): 0.40
- Volume (L): 
- Concentration: 
- Phase: 
- Additional Info:
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**Material Reaction:**
- **Basin:** St. Lawrence River Drainage
- **Air:** 
- **Land:** Y
- **Fresh Water:** 
- **Ground Water:** 
- **Salt Water:** 
- **Other Environment:** 

**Cause:** Discharge
**Reason:** Error
**Source:** Tank Truck
**Sector:** Petroleum
**Ship No.:** 
**Ship Name:** 
**Clean Up By:** polluter
**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:** bunker c
**Amount (ton):** 0.90
**Volume (L):** 
**Concentration:** 
**Phase:** 
**Additional Info:**
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# National Environmental Emergencies System (NEES)

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## Private and Retail Fuel Storage Tanks

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## Retail Fuel Storage Tanks

### Facility Description

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# Ontario Spills

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<td>Illegal dumping of furnace oil to catchbasin, cntnd, clng</td>
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<td>5673-89MMJN</td>
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# Ontario Spills

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- **Incident Cause:**
- **Incident Reason:**
- **Nature of Impact:**
- **Receiving Medium:**
- **Environmental Impact:**
## Ontario Spills

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<td>LAKE ONTARIO HAMILTON HARBOUR - PIER 10 &amp; 11 HAMILTON CITY</td>
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Incident Summary: UNKNOWN SOURCE CAUSING AN OIL SHEEN ON HAMILTON HARBOUR

Incident Cause: UNKNOWN

Incident Reason: UNKNOWN

Nature of Impact: Water course or lake

Receiving Medium: WATER

Environmental Impact: POSSIBLE

Incident Summary: OIL ON HAMILTON HARBOUR CONTAINED BY DOFASCO.

Incident Cause: UNKNOWN

Incident Reason: UNKNOWN

Nature of Impact: UNKNOWN

Receiving Medium: WATER

Environmental Impact: NOT ANTICIPATED

Incident Summary: OIL SHEEN (20 M BY 60 M) IN HAMILTON HARBOUR

Incident Cause: UNKNOWN

Incident Reason: UNKNOWN

Nature of Impact: UNKNOWN

Receiving Medium: WATER

Environmental Impact: NOT ANTICIPATED

Incident Summary: OIL SLICK ON HAMILTON HARBOR 200 METERS LONG & 20 METERS WIDE.

Incident Cause: WASTEWATER DISCHARGE TO WATERCOURSE

Incident Reason: UNKNOWN

Nature of Impact: UNKNOWN

Receiving Medium: WATER

Environmental Impact: NOT ANTICIPATED

Incident Summary: DIESEL FUEL SHEEN BETWEENPIERS IN HARBOR COMING FROM STORM SEWER.

Incident Cause: UNKNOWN

Incident Reason: UNKNOWN

Nature of Impact: Water course or lake

Receiving Medium: WATER

Environmental Impact: CONFIRMED
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<td>46538</td>
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<td>PETROLEUM PRODUCT ON WATER AT PIER 11,          HAMILTON HARBOUR.</td>
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<td>59892</td>
<td>11/18/1991</td>
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<td>PETKA VESSEL: LEAKING OIL FROM STERN. OIL STREAK 10' WIDE X 1500' LONG.</td>
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<td>71074</td>
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<td>HAMILTON HYDRO - 5 L OF MINERAL OIL TO GROUND FROM TRANSFORMER</td>
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**Ontario Spills**

**Map Key**
- n/a

**Company**
- UNKNOWN
- MARINE VESSEL

**Address**
- LAKE ONTARIO HAMILTON HARBOUR HAMILTON CITY
- ALLEY EAST OF JAMES WEST OF HEUGHSON ST. N TRANSFORMER HAMILTON CITY

**Incident Summary:**
- PETROLEUM PRODUCT ON WATER AT PIER 11,          HAMILTON HARBOUR.
- VESSEL JEAN PARIZIEN- OTHER CONTAINER LEAK SMALL QUANTITY LIGHT DIESEL TO LAKE ONTARIO
- OIL DISCOVERED IN DOFASCO BOAT SLIP; SOURCE WAS NOT DETERMINED
- PETKA VESSEL: LEAKING OIL FROM STERN. OIL STREAK 10' WIDE X 1500' LONG.
- HAMILTON HYDRO - 5 L OF MINERAL OIL TO GROUND FROM TRANSFORMER

**Incident Cause:**
- UNKNOWN
- OTHER CONTAINER LEAK
- UNKNOWN
- UNKNOWN
- VALVE/FITTING LEAK OR FAILURE
- COOLING SYSTEM LEAK

**Incident Reason:**
- UNKNOWN
- UNKNOWN
- UNKNOWN
- UNKNOWN
- EQUIPMENT FAILURE
- DAMAGE BY MOVING EQUIPMENT

**Nature of Impact:**
- Water course or lake
- Water course or lake
- Surface Water Pollution
- Water course or lake
- Water

**Receiving Medium:**
- Water
- Water
- WATER
- WATER

**Environmental Impact:**
- NOT ANTICIPATED
- NOT ANTICIPATED
- CONFIRMED
- POSSIBLE
- NOT ANTICIPATED
# Ontario Spills

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<td>MCASPHALT INDUSTRIES</td>
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<td>BURLINGTON ST. TRAIN HAMILTON CITY</td>
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<td>12/29/1993</td>
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<td>MARINE CLEAN LTD.- 70L DIESEL FUEL TO LAND FROM OVERFILLED TANKER</td>
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<td>HAMILTON HARBOUR AT PIER # 15 MCKEELE MARINE LTD. HAMILTON CITY</td>
<td>131570</td>
<td>9/8/1996</td>
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<td>MCKEELE MARINE LTD- 20 LITRES OF LUBE OIL TO WATER IN HARBOUR.</td>
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## Ontario Spills

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<td>MCKEIL MARINE LTD.</td>
<td>LAKE ONTARIO, HAMILTON HARBOUR TUG BOAT CO.</td>
<td>131940</td>
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<td>MCKEIL MARINE- 9L MOTOR OIL TO HARBOUR FROM BILGELINE WATERCRAFT TANK/BILGE PUMPING</td>
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<td>LAKE ONTARIO, HAMILTON HARBOUR</td>
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<td>SOURCE UKN-68 LITERS OF OIL(TYPE UKN)DISCOVERED IN OTTAWA SLIP.</td>
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<td>LAKE ONTARIO, HAMILTON BAY AT ROYAL HAMILTON YACHT CLUB, MCMABB ST NORTH</td>
<td>133293</td>
<td>10/20/1996</td>
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<td>SOURCE UNK- DIESEL SHEEN IN HAMILTON BAY,FD, POLICE &amp; HARB. MASTER, DISPERSING Water course or lake</td>
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<td>LAKE ONTARIO IN HAMILTON HARBOUR AT PIER 26 (N.O.S.)</td>
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<td>'JAMES NORRIS' VESSEL- 10 L OF DIESEL FUEL TO HAMILTON HARBOUR. OTHER CONTAINER LEAK ERROR Water course or lake</td>
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<td>LAKE ONTARIO, HAMILTON HARBOUR AT PIER # 24. HAMILTON CITY</td>
<td>197434</td>
<td>4/1/2001</td>
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<td>PROVMAR FUELS-MARINE TANKER HIT BY BULK CARRIER, DIESEL SHEEN IN LAKE, CCG. WATERCRAFT COLLISION ERROR Water</td>
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## Ontario Spills

### Map Key, Company, Address, Ref No., Incident Dt, MOE Reported Dt, Contaminant Name, Contaminant Quantity

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<td>PRIVATE OWNER</td>
<td>LAKE ONTARIO, HAMILTON HARBOUR, PLEASURE CRAFT Hamilton City</td>
<td>206049</td>
<td>7/16/2001</td>
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<td>PATTON BOAT: TWO BOATS COLLIDED. RESPONSE BOAT TIPPED LOSING FUEL TANK.</td>
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<td>AT THE HAMILTON YACHT CLUB DRIVEWAY AT THE END OF McNAB ST. STORAGE TANK/ BARREL Hamilton City</td>
<td>208558</td>
<td>8/9/2001</td>
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<td>HAMILTON YACHT CLUB</td>
<td>-200 L OF USED VEGETABLE OIL TO DRIVEWAY.</td>
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<td>PIER 12 - HAMILTON HARBOUR &lt;UNOFFICIAL&gt; Hamilton</td>
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<td>Pier 12 Hamilton Harbour, light oil slick, cleaning up</td>
<td>FUEL OIL 9 L</td>
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## Ontario Spills

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<th>Address</th>
<th>Ref No.</th>
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<th>Contaminant Name</th>
<th>Contaminant Quantity</th>
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<tr>
<td>n/a</td>
<td>Seaway Marine Transport&lt;UNOFFICIAL&gt;</td>
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<td>1386-6AMTG4</td>
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<td>Intersection of John Street / James Street&lt;UNOFFICIAL&gt; Hamilton</td>
<td>4434-6GXN5X</td>
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<td>8143-6DP6BS</td>
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**Incident Summary:**

- Hamilton Harbour - 2L hydraulic oil
- Dofasco #6 Pickle Line: 273L HCl to gravel grnd, clng.
- CCG: Faxed incident report May 3, 2004
- Lafarge, diesel spill, runoff to road
- Provmar Fuels: 50 gal diesel to harbour
- Provan Fuels: 50 gal diesel to harbour

**Incident Cause:**

- Other Discharges
- Pipe Or Hose Leak
- Other - Reason not determined
- Spill
- Pipe Or Hose Leak
- Spill

**Incident Reason:**

- Equipment Failure
- Unknown - Reason not determined
- Other - Reason not otherwise defined
- Spill
- Spill
- Spill

**Nature of Impact:**

- Surface Water Pollution
- Soil Contamination
- Soil Contamination
- Surface Water Pollution
- Surface Water Pollution
- Surface Water Pollution

**Receiving Medium:**

- Water
- Soil Contamination
- Land
- Water
- Possible
- Possible

**Environmental Impact:**

- Possible
- Confirmed
- Confirmed
- Confirmed
- Possible
## Ontario Spills

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<th>Inc No.</th>
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<td>1024-72GJBN</td>
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<td>COAL DUST</td>
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<td>7713-732MEC</td>
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<td>OTHER</td>
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<td>2863-72J7UR</td>
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### Incident Summary:

**Alouette Spirit Barge-4 Gal hydraulic oil to HA harbour**

### Incident Cause:

Other Discharges

### Incident Reason:

Error - Operator error

### Nature of Impact:

Surface Water Pollution

### Receiving Medium:

Water

### Environmental Impact:

Confirmed

### Incident Summary:

Hamilton, diesel fuel spill

### Incident Cause:

Discharge or Emission to Air

### Incident Reason:

Other - Reason not otherwise defined

### Nature of Impact:

Air Pollution; Surface Water Pollution

### Receiving Medium:

Water & Air

### Environmental Impact:

Confirmed

### Incident Summary:

Coal Dust in Hamilton Harbour

### Incident Cause:

Discharge or Emission to Air

### Incident Reason:

Other - Reason not otherwise defined

### Nature of Impact:

Air Pollution; Surface Water Pollution

### Receiving Medium:

Water & Air

### Environmental Impact:

Confirmed

### Incident Summary:

C G: ~9.5 L unknown substance floating in Hamilton Harbour

### Incident Cause:

Equipment Failure - Malfunction of system components

### Incident Reason:

Discharge Or Bypass To A Watercourse

### Nature of Impact:

Surface Water Pollution

### Receiving Medium:

Water

### Environmental Impact:

Confirmed

### Incident Summary:

CCG: noqty - Fax rec'd of boat discharging HC to water

### Incident Cause:

Discharge Or Bypass To A Watercourse

### Incident Reason:

Equipment Failure - Malfunction of system components

### Nature of Impact:

Surface Water Pollution

### Receiving Medium:

Water

### Environmental Impact:

Confirmed
## Ontario Spills

### Map Key
- Ref No. Incident Dt MOE Reported Dt Contaminant Name Contaminant Quantity

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<th>Contaminant Name</th>
<th>Contaminant Quantity</th>
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<td>Eastwood Park</td>
<td>X0032</td>
<td>WESTCENTR</td>
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%Commercial Wste: n/a
%Domestic Wste Rec: n/a
%Liquid Wste Rec: n/a
%Hazardous Wste Rec: n/a
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**Details**

- **Well Id**: 7123457
- **Lot**: Lot
- **Concession**: Concession
- **Concession Name**: Concession Name
- **County**: WENTWORTH
- **Municipality**: HAMILTON CITY

**Additional Details**

- **Easting Nad83**: 592808
- **Northing Nad83**: 4791912
- **Zone**: 17
- **Utm Reliability**: margin of error: 10 - 30 m
- **Construction Date**: 2/6/2009
- **Primary Water Use**: Monitoring
- **Secondary Water Use**: 
- **Well Depth**: 5.9 m
- **Pump Rate**: 
- **Static Water Level**: 1.5 m
- **Flow Rate**: 
- **Clear/Cloudy**: 
- **Specific Capacity**: 
- **Final Well Status**: Test Hole
- **Construction Method**: Driving
- **Flowing (y/n)**: 
- **Elevation (m)**: 77.576461
- **Elevation Reliability**: 
- **Depth to Bedrock**: 
- **Overburden/Bedrock**: 
- **Water Type**: 
- **Casing Material**: PLASTIC, PLASTIC, PLASTIC, PLASTIC, PLASTIC, PLASTIC, PLASTIC, PLASTIC

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<td>0.9 m</td>
<td>BROWN</td>
<td>FINE SAND</td>
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<td>2.8 m</td>
<td>BLACK</td>
<td>SAND, PEAT, FILL</td>
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<td>3.1 m</td>
<td>5.9 m</td>
<td>GREY</td>
<td>CLAY, SILT, SOFT</td>
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Appendix: Ontario Database Descriptions

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

**Provincial Government Source Databases:**

**Abandoned Aggregate Inventory**  Up to Sept 2002  AAGR

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

**Aggregate Inventory**  Up to Aug 2012  AGR

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

**Abandoned Mines Information System**  1800-Jan 2012  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.

**Borehole**  1875-Aug 2011  BORE

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

**Certificates of Approval**  1985-Oct 30, 2011*  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 Certificates of Approval 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.
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.

**Inventory of Coal Gasification Plants and Coal Tar Sites April 1987 and November 1988**

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

**Compliance and Convictions 1989-2012**

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

**Certificates of Property Use 1994-Jan 2013**

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

**Drill Holes 1886-Oct 2011**

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 MNRM. Levels of accuracy used to locate holes are: centering on the mining claim; a sketch of the mining claim; a 1:50,000 map; a detailed company map; or from submitted a “Report of Work”.

**Environmental Activity and Sector Registry Oct 31, 2011-Jan 2013**

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

**Environmental Registry 1994-Jan 2013**

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

**List of TSSA Expired Facilities**  Current to Feb 2012

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.

**TSSA Fuel Storage Tanks**  Current to Jun 2011

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

**Ontario Regulation 347 Waste Generators Summary**  1986-Apr 2012

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

**TSSA Historic Incidents**  2006-June 2009

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.

**TSSA Incidents**  June 2009-Mar 2012

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.
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.

Mineral Occurrences 1846-Nov 2011 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 planimetric (X and Y) coordinates of that point with the coordinates of the same point as defined from a source of higher accuracy.

Non-Compliance Reports 1992(water only), 1994-2010 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.

Ontario Oil and Gas Wells 1800-Feb 2012 OOGW

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

Ontario Inventory of PCB Storage Sites 1987-Oct 2004 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.

Orders 1994-Jan 2013 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.

Pesticide Register 1988-Jun 2012 PES

The Ontario Ministry of Environment maintains a database of all manufacturers and vendors of registered pesticides.
TSSA Pipeline Incidents June 2009-Mar 2012 PINC

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

Private and Retail Fuel Storage Tanks 1989-1996* PRT

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

Permit to Take Water 1994-Jan 2013 PTTW

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

Ontario Regulation 347 Waste Receivers Summary 1986-2009 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.


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).

Ontario Spills 1988-Aug 2012 SPL

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

Wastewater Discharger Registration Database 1990-2011 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).
TSSA Variances for Abandonment of Underground Storage Tanks  Current to October 2011  VAR

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

Waste Disposal Sites - MOE CA Inventory  1970-Jan 2013  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.

Waste Disposal Sites - MOE 1991 Historical Approval Inventory  Up to Oct 1990*  WDSH

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

Water Well Information System  1955-2011  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.

Federal Government Source Databases:

Environmental Effects Monitoring  1992-2007*  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.

Environmental Issues Inventory System  1992-2001*  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.

Federal Convictions  1988-Jun 2007  FCON

Environment Canada maintains a database referred to as the “Environmental Registry” that details prosecutions under the Canadian Environmental Protection Act (CEPA) and the Fisheries Act (FA). Information is provided on the company name, location, charge date, offence and penalty.
Contaminated Sites on Federal Land  June 2000-Jan 2013  FCS

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

Fisheries & Oceans Fuel Tanks  1964-Sept 2003  FOFT

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

Indian & Northern Affairs Fuel Tanks  1950-Aug 2003  IAFT

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

National Analysis of Trends in Emergencies System (NATES)  1974-1994*  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.

National Defence & Canadian Forces Fuel Tanks  Up to May 2001*  NDFT

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


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


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

Environment Canada’s National PCB inventory includes information on in-use PCB containing equipment in Canada including federal, provincial and private facilities. All federal out-of-service PCB containing equipment and all PCB waste owned by the federal government or by federally regulated industries such as airlines, railway companies, broadcasting companies, telephone and telecommunications companies, pipeline companies, etc. are also listed. Although it is not Environment Canada’s mandate to collect data on non-federal PCB waste, the National PCB inventory includes some information on provincial and private PCB waste and storage sites.

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.

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

With the provinces of BC, MB, NB, NF, ON, PE, and QC; Transport Canada currently owns and operates 90 fuel storage tanks. This inventory will also include The Pickering Lands, which refers to the 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, falls under the Site Management Policy of Transport Canada, but administered by Public Works and Government Services Canada. Our inventory provides information on the site name, location, tank age, capacity and fuel type.

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.
**Automobile Wrecking & Supplies  2001-Jun 2010**

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

**Chemical Register  1992, 1999-Jun 2010**

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.).

**ERIS Historical Searches  1999-Oct 2012**

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

**Canadian Mine Locations  1998-2009**

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.

**Oil and Gas Wells  Oct 2001-2012**

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 Nickles’ database is updated on a daily basis, however, this database is updated on a monthly basis. More information is available at www.nickles.com.


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.

**Retail Fuel Storage Tanks  2000-Jun 2010**

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. Information is provided on company name, location and type of business.

**Scott’s Manufacturing Directory  1992-Mar 2011**

Scott’s Directories is a data bank containing information on over 70,000 manufacturers in Ontario. Even though Scott’s listings are voluntary, it is the most comprehensive database of Ontario manufacturers available. Information concerning a company’s address, plant size, and main products are included in this database. This database begins with 1992 information and is updated annually.

**Anderson’s Storage Tanks  1915-1953**

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.*
Appendix G

Site Visit Field Notes
Appendix H

Photographs
Photo S-1 (top): Leander Drive, facing west showing surrounding land use

Project # 14-1137

Photo S-2 (bottom): Guise Street West, facing East showing surrounding land use

Photograph # S-1 & S-2

Date: February 2015
Photo S-3 (top): Guise Street West, facing East showing surrounding land use

Project # 14-1137

Photo S-4 (bottom): Bay Street North, facing Northeast showing surrounding land use

Photograph # S-3 & S-4

Date: February 2015
Photo S-5 (top): Burlington Street West, facing west showing surrounding land use

Project # 14-1137

Photo S-6 (bottom): Burlington Street West at McNab Street, facing East showing surrounding land use

Photograph # S-5 & S-6
Photo S-7 (top): Guise Street at James Street North, facing west showing surrounding land use

Project # 14-1137

Photo S-8 (bottom): Pier 5, facing west showing Leander Boat Club (west of site)

Photograph # S-7 & S-8

Date: February 2015
Photo S-9 (top): Guise Street East at Hughson Street North, facing west showing surrounding land use

Project # 14-1137

Photo S-10 (bottom): Guise Street west, facing east showing surrounding land use

Photograph # S-9 & S-10

Date: February 2015
Photo S-11 (top): Intersection of Guise Street West and John Street North, facing southwest showing surrounding land use

Photo S-12 (bottom): Catharine Street North, facing northeast showing surrounding land use

Project # 14-1137

Photograph # S-11 & S-12

Date: February 2015
Photo S-13 (top): Intersection of Guise Street East and Catharine Street North, facing southwest showing surrounding land use
<table>
<thead>
<tr>
<th>Date: February 2015</th>
<th>Photo 1-1 (top): Behind Royal Hamilton Yacht Club, facing southeast</th>
<th>Project # 14-1137</th>
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<tbody>
<tr>
<td></td>
<td>Photo 1-2 (bottom): Taken from west parking area on Pier 5 facing north</td>
<td>Photograph # 1-1 &amp; 1-2</td>
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</table>
Photo 1-3 (top): Pier 5 at Royal Hamilton Yacht Club, facing northwest

Photo 1-4 (bottom): Pier 5 near Royal Hamilton Yacht Club, facing east

Date: February 2015

Project # 14-1137

Photograph # 1-3 & 1-4
Photo 1-5 (top): Pier 5, north side of Royal Hamilton Yacht Club, facing west

Project #
14-1137

Photograph #
1-5

Date: February 2015
Photo 3-1 (top): Pier 5 at Junior Sailor Club building, facing northwest

Project # 14-1137

Photo 3-2 (bottom): Pier 5 showing Junior Sailor Club, facing south

Photograph # 3-1 & 3-2
Photo 4-1 (top): Pier 6, interior of Hamilton Port Authority service building

Project # 14-1137

Photo 4-2 (bottom): Pier 6, interior of Hamilton Port Authority service building

Photograph # 4-1 & 4-2

Date: February 2015
Photo 4-3 (top): Pier 6, interior of Hamilton Port Authority service building

Project # 14-1137

Photo 1-2 (bottom): Pier 6, interior of Hamilton Port Authority service building

Photograph # 4-3 & 4-4

Date: February 2015
Photo 4-5 (top): Pier 6, interior of Hamilton Port Authority service building

Project #
14-1137

Photo 4-6 (bottom): Pier 6, interior of Hamilton Port Authority service building

Photograph #
4-5 & 4-6
Photo 4-7 (top): Pier 6, interior of Hamilton Port Authority service building

Photo 4-8 (bottom): Pier 6, interior of Hamilton Port Authority service building

Date: February 2015

Project #: 14-1137

Photograph #: 4-7 & 4-8
Photo 4-9 (top): Pier 6, interior of Hamilton Port Authority service building

Photo 4-10 (top): Pier 6, interior of Hamilton Port Authority service building
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<tr>
<td></td>
<td>Photo 4-12 (bottom): Pier 6, Hamilton Port Authority building, facing southeast</td>
<td>Photograph # 4-11 &amp; 4-12</td>
</tr>
</tbody>
</table>
Photo 4-13 (top): Pier 6; Hamilton Port Authority gas filling area, facing northeast

Photo 4-14 (bottom): Pier 6; Hamilton Port Authority tank covers, facing east
Photo 4-15 (top): Pier 6, west side of Hamilton Port Authority building

Photo 4-16 (bottom): Pier 6, Hamilton Port Authority land, facing southeast

Date: February 2015

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Photograph # 4-15 & 4-16
Photo 4-17 (top): Pier 6, Hamilton Port Authority building, facing northeast with heated storage building in background

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Photo 4-18 (bottom): Pier 6, culvert at the base of James Street North

Photograph # 4-17 & 4-18
Photo 4-19 (top): Pier 6, interior of Hamilton Port Authority heated storage building, facing east

Photo 4-20 (bottom): Pier 6, interior of Hamilton Port Authority heated storage building

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Date: February 2015

Photograph # 4-19 & 4-20
Photo 5-1 (top): Pier 7, Hamilton Marine Police Building, facing southwest

Photo 5-2 (bottom): Pier 7, breakwater structure north of Hamilton Marine Police building, facing west

Date: February 2015

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Photograph # 5-1 & 5-2
Photo 5-3 (top): Pier 7, interior of Hamilton Marine Police building

Photo 5-4 (bottom): Pier 7, chemical storage cabinet inside Hamilton Marine Police building

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Photograph # 5-3 & 5-4

Date: February 2015
Photo 5-5 (top): Pier 7, sump inside Hamilton Marine Police Building

Photo 5-6 (bottom): Pier 7, chemical storage cabinet inside Hamilton Marine Police building

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Photograph # 5-5 & 5-6

Date: February 2015
Photo 5-7 (top): Pier 7, AST on west side of Hamilton Marine Police Building, facing northeast

Photo 5-2 (bottom): Pier 7, interior docks at Hamilton Marine Police building

Date: February 2015

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Photograph # 5-7 & 5-8
Photo 5-9 (top): Pier 7, work area inside Hamilton Marine Police Building

Photo 5-10 (bottom): Pier 7, oil drum inside Hamilton Marine Police building

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Photograph # 5-9 & 5-10

Date: February 2015
Photo 5-11 (top): Pier 7, south side of Hamilton Marine Police property, facing west

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Photo 5-12 (bottom): Pier 7, south side of Hamilton Marine Police building, facing east

Photograph # 5-11 & 5-12
Photo 6-1 (top): Pier 8, 65 Guise Street, Brewer’s Marine Supplies, facing west

Photo 6-2 (bottom): Pier 8, 65 Guise Street, west side Brewer’s Marine Supplies, facing east

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Photograph # 6-1 & 6-2

Date: February 2015
Photo 6-3 (top): Pier 8, north side of Brewer’s Marine Supplies, facing east

Photo 6-4 (bottom): Pier 8, interior of Brewer’s Marine Supplies

Date: February 2015

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Photograph # 6-3 & 6-4
Photo 6-5 (top): Pier 8, Brewer’s Marine Supplies warehouse

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Photo 11-2 (bottom): Pier 8, east side of Brewer’s Marine Supplies, facing north

Photograph # 6-5 & 6-6

Date: February 2015
Photo 6-7 (top): Pier 8, 65 Guise Street, Brewer’s Marine Supplies, east side of building, facing south

Date: February 2015

Project # 14-1137

Photograph # 6-7
Photo 8-1 (top): Pier 8, Hamilton Port Authority open storage (Shed 4), facing northeast

Project # 14-1137

Photo 8-2 (bottom): Pier 8, interior northeast corner of Shed 4 showing soil staining

Photograph # 8-1 & 8-2

Date: February 2015
Photo 8-3 (top): Pier 8, Shed 4 storage room, facing north

Photo 8-4 (bottom): Pier 8, Shed 4 storage room, facing north

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Photograph # 8-3 & 8-4

Date: February 2015
Photo 8-5 (top): Pier 8, Shed 4 yard area facing east showing storage containers

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Photo 8-6 (bottom): Pier 8, north side of Shed 4, facing southeast

Photograph # 8-5 & 8-6

Date: February 2015
Date: February 2015

Photo 9-1 (top): Pier 8 on northwest corner, facing south

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Photo 9-2 (bottom): Pier 8 on west side, facing north

Photograph # 9-1 & 9-2
Photo 9-3 (top): Pier 8, southwest portion facing northeast

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Photo 9-4 (bottom): Pier 8, Discovery Drive facing southeast

Photograph #
9-3 & 9-4

Date: February 2015

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Photo 9-5 (top): Pier 8, facing south down Discovery Drive

Photo 9-6 (bottom): Pier 8, facing southeast towards commercial facility

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Photograph # 9-5 & 9-6
Photo 9-7 (top): taken from Pier 8 commercial facility parking area facing north

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Photo 9-8 (bottom): Pier 8 on north side facing west

Photograph # 9-7 & 9-8

Date: February 2015
Photo 10-1 (top): Pier 8, Shed 6, facing northeast

Photo 10-2 (bottom): Pier 8, south of Shed 6 facing southeast showing grassed area and miscellaneous storage
Photo 10-3 (top): Pier 8, southeast portion of Shed 6 property, facing northeast

Photo 10-2 (bottom): Pier 8, east end of Shed 6 showing hydro transformer

Project #
14-1137

Photograph #
10-3 & 10-4

Date: February 2015
Photo 10-5 (left): Pier 8, south side of Shed 6, facing north showing former UST location

Photo 10-6 (right): Pier 8, south side of Shed 6, facing west showing loading dock

Project # 14-1137

Photograph # 10-5 & 10-6
Photo 10-7 (top): Pier 8, north side of Shed 6, facing west showing loading dock area

Photo 10-8 (bottom): Pier 8, northeast corner of Shed 6 showing UST location

Project #
14-1137

Photograph #
10-7 & 10-8

Date: February 2015
Photo 10-9 (top): Pier 8, interior of Shed 6, facing west

Photo 10-10 (bottom): Pier 8, maintenance area in northeast corner of Shed 6
Photo 10-11 (top): Pier 8, lube oil storage area in northeast portion of Shed 6

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Photo 10-12 (bottom): Pier 8, paint storage area in furnace room in northeast portion of Shed 6

Photograph # 10-11 & 10-12

Date: February 2015
Photo 11-3 (top): Pier 8, interior Harbour Marine Services, shop area

Photo 11-4 (bottom): Pier 8, Harbour Marine Services, small-scale chemical storage in shop area

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Photograph #
11-3 & 11-4

Date: February 2015
Photo 11-5 (top): Pier 8, Harbour Marine Services interior of service bay

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Photograph # 11-5

Date: February 2015
Photo 12-1 (top): Pier 8, Birmingham Steel storage area, facing west

Project # 14-1137

Photo 12-2 (bottom): Pier 8, Birmingham Steel storage area, facing northeast

Photograph # 12-1 & 12-2
Photo 13-1 (top): Pier 8, Shed 7, facing southeast showing former UST location

Photo 13-2 (bottom): Pier 8, north side of Shed 7, facing south

Date: February 2015

Project # 14-1137

Photograph # 13-1 & 13-2
Photo 13-3 (top): Pier 8, south side of Shed 7, facing northeast

Photo 13-4 (bottom): Pier 8, interior of Shed 7

Project # 14-1137

Photograph # 13-3 & 13-4

Date: February 2015
Photo 14-1 (top): Pier 8, Navy League building, facing west
Project # 14-1137

Photo 14-2 (bottom): Pier 8, interior of Navy League - gymnasium
Photograph # 14-1 & 14-2

Date: February 2015
Photo 14-2 (top): Pier 8, west side of Navy League building, facing north showing former AST cradle

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Photo 14-4 (bottom): Pier 8, interior of Navy League garage, facing east

Photograph #
14-3 & 14-4
Photo 14-5 (top): Pier 8, Navy League boat storage area, facing east

Project # 14-1137

Photo 14-6 (bottom): Pier 8, small-scale chemical storage inside Navy League building

Photograph # 14-5 & 14-6

Date: February 2015
Photo 14-5 (top): Pier 8, west side of Navy League building showing sewage holding tank, facing northwest.

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Photograph # 14-7
Photo 16-1 (top): In Bayview Park, facing south

Photo 16-2 (bottom): Bayview Park, facing northwest

Project # 14-1137

Photograph # 16-1 & 16-2