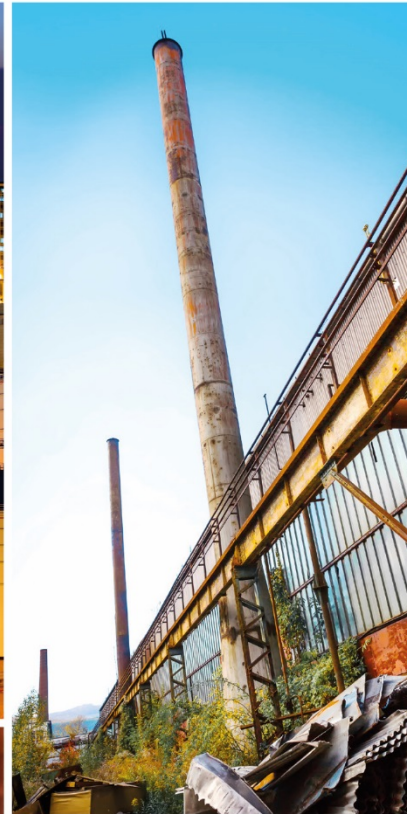
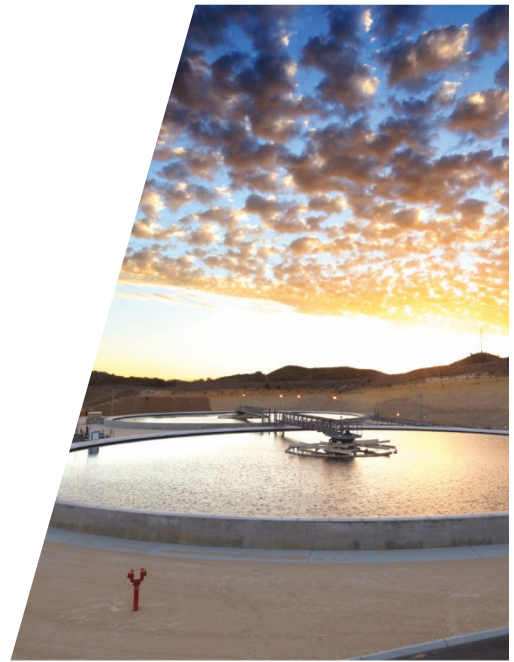




Phase One Environmental Site Assessment

36 Robinson Avenue
Ottawa, Ontario

Robinson Village LPIV Limited
Partnership
C/o TC United Development
Corporation





Executive Summary

GHD (Consultant) was retained by Robinson Village LPIV Limited Partnership (Client) represented by Mr. Daniel Boulanger of TC United Development Corporation, to complete a Phase One Environmental Site Assessment (Phase One ESA) in general accordance with the O. Reg. 153/04 Phase One ESA for the residential/commercial property located at 36 Robinson Avenue in Ottawa, Ontario (Site or Phase One Property).

The Phase One ESA is being conducted for environmental due diligence as part of the local municipal planning department requirement associated with redevelopment of the Site. The current land use is mixed commercial and residential. The intended future use of the Site is residential. Accordingly, a Record of Site Condition (RSC) filing will be required for a change in land use to a more sensitive land use.

According to the historical research, the earliest developed use of the Site is estimated to be 1889 based on ownership details from the land title search, and listings from the City directories. The Site has been occupied by multiple buildings since the 1950s, which were originally used solely for residential purposes, however the Site has been used for commercial and residential purposes since the 1980s until present.

Based on the historical research and known information of the general area of the Site, there were three on-Site potentially contaminating activities (PCAs). There was historical and current fuel storage in fixed tanks observed at the Site, specifically, the heating oil UST and AST formerly located adjacent to 44 Robinson Avenue, the heating oil AST currently present on the interior of 44 Robinson Avenue and the former heating oil ASTs formerly located adjacent to each of 36, 38 and 40 Robinson Avenue. Additionally, automotive (motorcycle) repair garages were present at 36 Robinson Avenue (historically) and at 40 Robinson Avenue (presently). These PCAs are considered to have contributed to areas of potential environmental concern (APEC) at the Site.

There are 12 PCAs identified at surrounding properties in the Phase One Study Area as part of this assessment. One of the off-Site PCAs identified on neighbouring properties in the Phase One Study area is considered to represent an APEC for the Site. The adjacent property to the east of the Site, presently addressed as 85 Robinson Avenue, was identified as a probable source of on-Site petroleum hydrocarbon contamination, as observed and described by others in previous investigations at the Site. It is suspected that the source of contamination at the 85 Robinson Avenue property was the historic use and/or storage of fuels and/or chemicals; this adjacent property is considered to represent an APEC for east portion of the Site.

Following the completion of the Phase One ESA for the subject Property, it is our opinion that a Phase Two Environmental Site Assessment is required for the Site to investigate the soil and groundwater quality associated with the APECs identified in this report.



Table of Contents

1.	Introduction.....	1
2.	Scope of Investigation	1
3.	Records Review	2
3.1	General	2
3.1.1	Phase One Study Area Determination	2
3.1.2	First Developed Use Determination.....	3
3.1.3	Fire Insurance Plans.....	3
3.1.4	Chain of Title.....	5
3.1.5	Environmental Reports	7
3.2	Environmental Source Information	10
3.3	Physical Setting Sources	18
3.3.1	Aerial Photographs	18
3.3.2	Topography, Hydrology, Geology.....	20
3.3.3	Fill Materials.....	20
3.3.4	Water Bodies and Areas of Natural Significance	20
3.3.5	Well Records	21
3.4	Site Operating Records.....	21
4.	Interviews	21
5.	Site Reconnaissance.....	22
5.1	General Requirements.....	22
5.2	Specific Observations at Phase One Property	22
5.2.1	On-Site Structures and Improvements	22
5.2.2	Tanks	22
5.2.3	Water Sources	23
5.2.4	Utility Corridors	23
5.2.5	Building Features.....	23
5.2.6	Heating Systems.....	23
5.2.7	Drains, Pits, and Sumps	24
5.2.8	Unidentified Substances.....	24
5.2.9	Interior Stains or Spills.....	24
5.2.10	Site Features	24
5.3	Environmental Site Observations	24
5.3.1	Staining.....	24
5.3.2	Stressed Vegetation	25
5.3.3	Areas of Fill or Grading.....	25
5.4	Potentially Contaminating Activities.....	25
5.4.1	Unidentified Substances.....	25
5.4.2	Enhanced Investigation Property.....	25
5.4.3	Phase One Study Area (properties within 250 m)	28
6.	Review and Evaluation of Information.....	28
6.1	Current and Past Uses (Site).....	28



6.2	Potentially Contaminating Activities.....	29
6.2.1	Summary of On-Site Potentially Contaminating Activities.....	29
6.2.2	Summary of Off-Site Potentially Contaminating Activities (Phase One Study Area)	30
6.3	Areas of Potential Environmental Concern.....	31
6.4	Phase One Conceptual Site Model.....	32
7.	Conclusions.....	33
7.1	Whether Phase Two Environmental Site Assessment Required Before Record of Site Condition Submitted.....	33
7.2	Record of Site Condition Based on Phase One Environmental Site Assessment Alone	33
7.3	QP Confirmation	33
8.	References	35

Figure Index

Figure 1	Site Location Map
Figure 2	Site Plan
Figure 3	Surrounding Land Use

Table Index

Table 3.1	Summary of Chain of Title	5
Table 3.2	Summary of Off-Site PCAs Identified in City Directory Research	16
Table 3.3	Aerial Photographs	18
Table 6.1	Summary of Current and Past Use	29
Table 6.2	Summary of On-Site Potentially Contaminating Activities (PCAs)	29
Table 6.3	Summary of Off-Site Potentially Contaminating Activities (PCAs)	30

Appendix Index

Appendix A	Chain of Title
Appendix B	Previous Reports
Appendix C	Ecolog ERIS Site Database Search
Appendix D	Environmental Regulatory Correspondence
Appendix E	Aerial Photographs
Appendix F	Site Photographs



1. Introduction

GHD (Consultant) was retained by Robinson Village LPIV Limited Partnership (Client), represented by Mr. Daniel Boulanger, to complete a Phase One Environmental Site Assessment (Phase One ESA) in general accordance with the O. Reg. 153/04 Phase One ESA format for the commercial and residential property located at 36 Robinson Avenue in Ottawa, Ontario (Site or Phase One Property).

The Property consists of a parcel of land with four buildings, with Civic Nos. 36, 38, 40 and 44 Robinson Avenue, however, the entire Site is depicted as 36 Robinson Avenue on the City of Ottawa mapping and is referenced as such in this report. The Property is approximately 1840 m² (0.18 hectares) in area and has Latitude and Longitude coordinates of 45° 25' 6" N, 75° 39' 58" W and UTM coordinates of zone 18T, 447875 m E, 5029640 m N. The Site has a municipal zoning designation of R5K [2219] H(27)-h "Residential Fifth Density Zone".

The Site is legally described as Lots 7, 10, 13, 16, and 19, Plan 190, in the City of Ottawa in the Province of Ontario. The property identification number associated with the Site is 042070369. The location of the Site within the City of Ottawa is shown in Figure 1, in the Figures Section following the text of this report. In all aspects of this report the Phase One property is referred to as the Site or Property.

According to the historical research, the earliest developed use of the Site is estimated to be 1889 based on ownership details from the land title search, and listings from the City directories. The Site has been occupied by multiple buildings since the 1950s, which were originally used solely for residential purposes, however the Site has been used for commercial and residential purposes since the 1980s until present.

The Phase One study area is serviced by municipal water and sewer services and is considered to be in a non-potable area. Electrical and natural gas services are available from private utility companies.

The Site is currently owned by Mr. Gary Courville. GHD understands that the Client will be redeveloping the Site for residential use. The Client (Robinson Village LPIV Limited Partnership) is represented by Mr. Daniel Boulanger of TC United Development Corporation. TC United Development Corporation has a corporate address of 800 Industrial Avenue Unit 9-100, Ottawa, Ontario, K1G 4B8.

2. Scope of Investigation

The scope of the investigation was detailed in the proposal dated November 14, 2018 (Ref: 11177757Boulanger-4). The project was approved by Mr. Daniel Boulanger. The Phase One ESA is being conducted for environmental due diligence as part of the local municipal planning department requirement associated with redevelopment of the Site.

This Phase One ESA was conducted for the purposes of a submission of re-development planning for the City of Ottawa which requests that these submissions generally follow the guidelines set out



in Ontario Regulation 153/04, as amended 2011 (O. Reg. 153/04), Records of Site Condition, Part XV.1 of the Environmental Protection Act.

The general objectives of this Phase One ESA were:

- To develop a preliminary determination of the likelihood that one or more contaminants have affected any land or water on, in or under the Phase One study area.
- To determine the need for a Phase Two Environmental Site Assessment.
- To provide a basis for carrying out any Phase Two Environmental Site Assessment.

This Phase One ESA included the following components:

- Historical records review
- Interviews
- Site reconnaissance

An evaluation of the information gathered from the records review, interviews and site reconnaissance.

3. Records Review

NOTE: Due to change in the name of the Ontario government agencies effective July 1, 2018 all references to Ministry of Environment (MOE) or Ministry of Environment and Climate Change (MOECC) are referring to the new name of Ministry of Environment, Conservation and Parks (MECP).

3.1 General

3.1.1 Phase One Study Area Determination

A plan of survey was not provided by the Client as part of this assessment. The City of Ottawa geoOttawa mapping was reviewed for an interpretation of the Site and its property boundaries. The Site is currently depicted as the parcel of land containing the buildings with Civic addresses 36, 38, 40 and 44 Robinson Avenue, and is identified solely as 36 Robinson Avenue on the mapping.

The Site is located within an urban area, which is predominantly residential use with some parkland, commercial, institutional and industrial uses also observed. The Site is located within the Sandy Hill Neighbourhood of the City of Ottawa, Ontario. The Site is immediately surrounded by residential properties to the north, south, east and west. The historical records and use as well as present operations of properties located within 250 m of the subject land were considered from an environmental perspective for the purposes of this report. Based upon our review of the records and data collected during this mandate, properties located outside of the Phase One Study Area (250 m radius from property boundaries) were not considered to have the potential to have impacted the subject land.

There were two properties with historical environmental significance located outside or with boundaries approaching the limits of the Phase One Study area, these properties included:



- A former coal gasification plant at 175 Lees Avenue, located approximately 230 m southwest of the Site.
- A former coal tar distillation facility at 170 Lees Avenue, located approximately 530 m southwest of the Site.

These environmentally significant properties have been included in the historical review sections of this report, however, due to their distances from the Site and the location of the Rideau River, resulting in an interpretation that these properties are cross-gradient with respect to the Site, they are not suspected to have significantly impacted the subject Property.

3.1.2 First Developed Use Determination

A land title search indicated that portions of the Phase One Property changed ownership between individuals from at least 1889 to between 1957 and 1969. Vorcan Tool Company Limited consolidated the property in 1969. The property was owned by corporations between 1969 and 1981, before returning to ownership by individuals.

Aerial photographs indicate the Site was occupied by one building in 1928. Fire Insurance plans depict the Site occupied by two residential dwellings in 1902.

Based on the information reviewed at the time of this Phase One ESA, the first development on the Site is considered to have occurred in 1889 and was for residential use.

3.1.3 Fire Insurance Plans

Fire insurance plans (FIP) assist in the identification of historical land use and commonly indicate building layouts, detached structures, Site improvements, facility operations, names of tenants, the existence and location of boiler rooms, aboveground and underground storage tanks and adjoining property uses.

The 1902 FIP (volume II, Sheet 163) identifies the following:

- The Site is occupied by two residential buildings and is identified as 32 Robinson Avenue.
- The adjacent building to the west (28 Robinson Avenue) is also residential land use.
- Approximately 100 m north of the Site is the Canadian Northern Ontario Railway, followed by a turn table, and the engine house.
 - The railway is a Potentially Contaminating Activity (PCA) (item 46 - Rail Yards, Tracks and Spurs).
 - The engine house is a PCA (item 27 - Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles).
- Approximately 140 m southwest of the Site is the Canadian Pacific Railway, an engine house is shown approximately 175 m south of the Site.
 - The railway is a PCA (item 46 - Rail Yards, Tracks and Spurs).
 - The engine house is a PCA (item 27 - Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles).
- Approximately 160 m southwest of the Site is the Grand Trunk Railway.



- The railway is a PCA (item 46 - Rail Yards, Tracks and Spurs).
- Approximately 85 m west of the Site, 16B Robinson Avenue is occupied by a Machine Shop.
 - The Machine Shop is a PCA (item 34 – Metal fabrication).
- The location presently occupied by 29 Hurdman Road is occupied by the McCauliffe-Davis Lumber Co, with buildings identified as 51-103 Hurdman's Bridge Road.
 - The Lumber Mill is a PCA (item 59 - Wood Treating and Preservative Facility and Bulk Storage of Treated and Preserved Wood Products).

The 1956 Fire Insurance Plan (Volume 2, Sheet 235-2) identifies the following:

- The Site occupied by four residential buildings identified as 36, 38, 40, and 42 Robinson Avenue, with detached garages to the south of the 36, 38, 40 Robinson Avenue buildings
- The Property footprint in 1956 did not include 32 Robinson Avenue to the west.
- 85 Robinson Avenue, adjacent to the east, is occupied by multiple buildings identified as 225, 229, 231, and 237 Hurdman Avenue, described as 'The Ottawa Beef Co. Ltd'.
- 37 Robinson Avenue, located approximately 15 m north of the Site is occupied with a building identified as 'Fourniers Van Storage'. A UST is illustrated on the FIP approximately 15 m north of the Site limits.
 - Fuel tanks are a PCA (item 28 - Gasoline and Associated Products Storage in Fixed Tanks).
- 23 Hurdman Avenue, located approximately 70 m southwest of the Site, is identified as 'Truck Repairs and Storage'
 - The automotive garage is a PCA (item 27 - Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles).
- 18 Robinson Avenue, located approximately 75 m west of the Site, is identified as Repairs and Machine Storage; this location is consistent with the observations at 16B Robinson Avenue in the 1902 FIP.
 - The Machine Shop is a PCA (item 34 – Metal fabrication).
- The Canadian National Railway (previously identified as the Canadian Northern Ontario Railway in the 1902 Fire Insurance Plan) is present approximately 100 m northwest of the Site.
 - The railway is a PCA (item 46 - Rail Yards, Tracks and Spurs).
- Currie Gas Works/Currie Tar Products was identified at 170 Lees Avenue, approximately 530 m southwest of the Site. This property was observed to have a storage tank identified as containing 'Tar' in the northwest corner of the property. Six underground fuel storage tanks are also present on the north portion of this property.
 - A coal tar distillery is a PCA (item 8 – chemical manufacturing, Processing, and Bulk Storage).
 - Fuel tanks are a PCA (item 28 - Gasoline and Associated Products Storage in Fixed Tanks).



- Ottawa Gas Co. (Interprovincial Utilities Ltd.) is located at 175 Lees Avenue, approximately 465 m to southwest with its property limits approximately 230 m southwest of the Site.
 - A coal gasification plant is a PCA (item 9 – Coal Gasification).
- Approximately 140 m southwest of the Site is the Canadian Pacific Railway.
 - The railway is a PCA (item 46 - Rail Yards, Tracks and Spurs).
- Approximately 160 m southwest of the Site is the Canadian National (Formerly Grand Trunk) Railway.
 - The railway is a PCA (item 46 - Rail Yards, Tracks and Spurs)
- 41-51 Hurdman Avenue (presently identified as 29 Hurdman Avenue), located approximately 60 m to the south of the Site, is an industrial facility identified as 'Harry Hawley and Sons Ltd Artificial Stone and Concrete Block Works'. Slightly west of center is a 'machine shop', and the northeast corner of the Site is occupied by a cinder pile. There are multiple 'dry kilns' on the plans, as well as a steam plant, but the fuel source is not identified.
 - This industrial facility is a PCA (item 12 – Concrete, Cement and Lime Manufacturing).
- The property identified as 33 Hurdman Road, located approximately 80 m southwest of the Site, is occupied by a 'gasoline service station' (equipped with two USTs).
 - Fuel tanks are a PCA (item 28 - Gasoline and Associated Products Storage in Fixed Tanks).

The aforementioned PCAs are summarized in Section 6.2.2 of this report. Given their locations and orientations with respect to the Site as well as the activities observed at these properties, none of the PCAs identified at neighbouring properties in the FIP review are considered to represent an APEC for the Site. These PCAs are summarized in Section 6.3 of this report.

3.1.4 Chain of Title

A request for an environmental chain of title search was submitted to Read Abstract Limited on behalf of GHD. The Chain of title indicated that the Phase One Property is legally described as Lots 7, 10, 13, 16, and 19, Plan 190, in the City of Ottawa. The results of the Title search and deviations in ownership of the Site are summarized in Table 3.1 below. A complete summary of the results of the search are included in Appendix A.

Table 3.1 Summary of Chain of Title

Lot	Year	Property Ownership
Entire Site		
Plan 190	1899	T.W.McDermott and R.P.Robinson
Portions and Site Under Separate Ownership		
Lot 7	1902 to 1904	T.W McDermott
	1904 to 1904	Mary McDermott
	1904 to 1905	James Harvey
	1905 to 1906	Mary McDermott
	1906 to 1907	James Copping
	1907 to 1908	Herbert Percival
	1908 to 1911	James E Wilson



Table 3.1 Summary of Chain of Title

Lot	Year	Property Ownership
	1911 to 1919	Hamnet Hill
	1919 to 1919	Mary Fraser
	1919 to 1922	William Hasty
	1922 to 1922	Chauncey Kirby
	1922 to 1925	William Pinard
	1925 to 1931	Ida McNeill
	1931 to 1932	William Pinard
	1932 to 1947	Alphonse Dumais
	1947 to 1953	Romeo Dumais
	1953 to 1954	John Tolmie
	1954 to 1957	James Franceschini
	1957 to 1968	Mount Royal Paving and Supplies Ltd. (later renamed to Franeon Limited)
	1968 to 1969	Alan O'Hara
	1969 to 1972	Vorcan Tool Company Limited
Lot 10	1902 to 1904	T.W McDermott
	1904 to 1904	Mary McDermott
	1904 to 1905	James Harvey
	1905 to 1906	Mary McDermott
	1906 to 1907	James Copping
	1907 to 1908	Herbert Percival
	1908 to 1911	James E Wilson
	1911 to 1919	Hamnet Hill
	1919 to 1919	Mary Fraser
	1919 to 1922	William Hasty
	1922 to 1922	Chauncey Kirby
	1922 to 1925	William Pinard
	1925 to 1931	Ida McNeill
	1931 to 1931	William Pinard
	1931 to 1939	Jules Coucke
	1939 to 1943	Moise Coucke
	1943 to 1946	Sydney Pinard
	1946 to 1949	Harold Coulin
	1949 to 1969	Gerard Poitras
	1969 to 1972	Vorcan Tool Company Limited
Lot 13 and 16	1903 to 1931	R.P.Robinson
	1931 to 1946	City of Ottawa
	1946 to 1966	Marion Hayley
	1966 to 1969	Gerard and Joyce Poitras
	1969 to 1972	Vorcan Tool Company Limited
Lot 19	1902 to 1904	T.W McDermott



Table 3.1 Summary of Chain of Title

Lot	Year	Property Ownership
	1904 to 1904	Mary McDermott
	1904 to 1905	James Harvey
	1905 to 1906	Mary McDermott
	1906 to 1907	James Copping
	1907 to 1920	Herbert Percival
	1920 to 1928	James Charles
	1928 to 1949	City of Ottawa
	1949 to 1962	William Hayley
	1962 to 1966	Harry Hayley & Sons Ltd.
	1966 to 1969	Gerard and Joyce Poitras
	1969 to 1972	Vorcan Tool Company Limited
Entire Site		
All	1972 to 1981	Shenkman Corporation Ltd.
	1981 to present	Gary Courville

Portions of the Phase One Property changed ownership between individuals from at least 1889 to between 1957 and 1969. Vorcan Tool Company Limited consolidated the property in 1969. The property was owned by corporations between 1969 and 1981, before returning to individual ownership. The current registered owner of the Site is Mr. Gary Courville.

There was no evidence suggesting potentially contaminating activities or areas of potential environmental concern with the subject Site identified through the review of the title of Site ownership.

3.1.5 Environmental Reports

The following environmental reports were reviewed prior to conducting this Phase One ESA. Copies of the reports can be found in Appendix B:

"Limited Environmental Characterization, 42 and 44 Robinson Avenue, Ottawa, Ontario" Reference No. E1378-04, prepared by John D. Paterson and Associates Limited (JDP), dated May 15, 1997.

- The report began by referencing an environmental remediation program being carried out on the former Capital Beef property in 1996. Solvent based contaminants were encountered at traced to the eastern property boundary. It was also noted that hydrocarbon contamination was observed on the Capital Beef site; a membrane barrier was reportedly installed along the property boundary as a preventative measure for contaminant migration.
- 12 test pits were placed on the Site in 1997. Hydrocarbon contamination was observed in the test pit (TP14) placed adjacent to an aboveground storage tank (AST), located east of 44 Robinson Avenue. An underground storage tank (UST) was observed to be present during the excavation of this test pit. An additional test pit (TP6) had visual and olfactory observations of hydrocarbon contamination.



- A fill layer was encountered in most of the test pits that were dug as part of this program and was more evident along the eastern portion of the Site. The fill layer was reported to contain various types of debris, including: metal, auto parts, tires, construction materials and other materials or inert refuse.
- The UST was reportedly abandoned and left in place. The pockets of contamination on the adjacent property were considered limited and were not interpreted to pose any significant environmental risk to human health or the natural environment. No recommendations were further environmental work were made at the time of this report.

GHD Note: The field sampling methodology, regulatory standards and laboratory testing methods have been updated since the time of this report, and therefore the analytical data presented in this report is not considered adequate for a comparison to the current regulatory standards.

"Limited Environmental Site Remediation, 42 and 44 Robinson Avenue, Ottawa, Ontario" Reference No. E1378-04, prepared by John D. Paterson and Associates Limited, dated November 17, 1998.

- The AST referenced in the 1997 Joh D. Paterson (JDP) report was removed to facilitate excavation work adjacent to 44 Robinson Avenue. The UST also referenced in the 1997 JDP report was also removed as part of the fieldwork for this program. Upon removal, the UST was noted to be full, however, a 5 cm hole was observed on the base of the north side of the UST.
- Excavation work around the UST was advanced to a depth of approximately 2.5 m below ground surface (BGS). The excavated soil was noted to be impacted by hydrocarbons. The excavation was reportedly limited by the presence of the footings of the 44 Robinson Avenue building and by some mature trees. Confirmatory soil sampling was completed following the removal of the UST, which confirmed that contaminated soil was left in place, due to the presence of restricted access during excavation.
- It was estimated that 75 m³ of soil was excavated and stockpiled at the Site. It was understood that this soil would be taken off-Site for disposal, however, this activity had not been completed at the time of issuance of the report and no documentation of the disposal was provided.
- Remediation of the remaining impacted soil was recommended following demolition of the existing building.

GHD Note: No assessment of the Site groundwater was completed as part of this assessment. This report did not include a sample location plan of the samples collected from the base and sidewalls of the UST excavation.

"Phase I Environmental Site Assessment, Lots 7, 10, 13, 16 and 19, Plan 190 Robinson Avenue, Ottawa, Ontario", prepared by Kollaard Associates Inc., dated September 2008.

- The Site was occupied by four buildings, used mostly for residential purposes but also for custom motorcycle manufacturing, storage and repairs. 36 Robinson Avenue was used for motorcycle parts sales, and had reportedly been used for service up until approximately 2002. The building addressed as 38 Robinson Avenue had been used for residential purposes since at least 1981. The building addressed as 40 Robinson Avenue was being used to manufacture custom motorcycles, some servicing of motorcycles was also apparent at this building. The building addressed as 42/44 Robinson Avenue was observed to contain a storage garage on the



main level and a residential apartment on the second storey; an interior fuel oil AST was observed within this building.

- The Phase I ESA identified the following issues of potential environmental concern:
 - Remaining hydrocarbon impacted soil from the UST excavation (as referenced in the 1998 JDP report above)
 - Potential hydrocarbon contamination associated with fuel storage tanks formerly located adjacent to 36 and 38 Robinson Avenue.
 - Former landfill and industrial sites within 500 m of the Site.
- The report concluded "Should the risk of unknown contamination need to be reduced, such as any subsurface hydrocarbon contamination from the former fuel oil storage tanks or any subsurface contamination related to former landfill and industrial sites, a program of soil and groundwater sampling together with appropriate laboratory testing could be carried out".

GHD Note: No concerns were identified with current and former motorcycle service and repair operations. A former fuel oil AST at 40 Robinson Avenue was not discussed.

"Phase I Environmental Site Assessment Report Update, 36 Robinson Avenue, Ottawa, Ontario", prepared by Kollaard Associates Inc., dated November 2012.

- The Site conditions which were observed to have changed from the 2008 Kollaard Phase I ESA included:
 - The building at 42/44 Robinson Avenue was unoccupied and was used for storage. The building was not heated, the fuel oil AST remains inside the building, but was observed to be empty.
 - The majority of the exterior storage, previously observed, was removed from the Site.
- A furnace oil tank leak at 28 Robinson Avenue, approximately 20 m west of the Site, was reported in 1988.
- The report concluded that no environmentally significant changes have occurred within the site since the 2008 Kollaard Phase I ESA. No action with regards to the additional environmental information was considered warranted at the time of the 2012 Kollaard Phase I ESA Report Update.

GHD Identification of Potentially Contaminating Activities (PCA) from Previous Environmental Reports

The following activities identified in the previous environmental reports are considered to represent PCA and Areas of Potential Environmental Concern (APECs) for the Site:

- Presence of petroleum products stored in fixed tanks. Current and/or former ASTs and a UST were reported at the Site and neighbouring properties. At least one instance of remaining hydrocarbon impacted soil was observed at the Site for a previous remediation excavation.
- Current and/or former motorcycle manufacturing, service and repair was observed in at least two of the four Site buildings.
- Fill material of unknown environmental quality was observed at the Site.



The former landfill and industrial facilities within 500 m of the Site are located significant distances from the Site and are not considered to represent APECs for the Site.

3.2 Environmental Source Information

The following environmental source information was reviewed as part of this assessment.

National Pollutant Release Inventory (Online), Environment Canada

The database titled National Pollutant Release Inventory (NPRI) provides the results and data with respect to releases of pollutants into the natural environment as a result of industrial processes. Data is collected and updated online annually. A search of the NPRI was conducted through a subcontracted Ecolog Environmental ERIS search. The Site is not listed in the NPRI for any of the recorded years (1993-May 2017). No properties within 250 m of the Site are listed in the NPRI. A copy of the Ecolog ERIS Database Summary is included in Appendix C.

National PCB Inventory

The National Inventory of PCB Storage Sites, January 1993 contains information on PCB Storage Sites in the Province of Ontario, which is collected under Ontario Regulation 362/90 by the district and regional offices of the MECP. The document is an inventory of known private and provincially-operated PCB storage sites as of January 1993. The document does not include Federal PCB storage sites, which are under Environment Canada jurisdiction. The Site was not listed in the Ontario Inventory of PCB Storage Sites report. No properties within 250 m of the Site were identified in the Ontario Inventory of PCB Storage Sites report. The PCB search was confirmed by the results of the subcontracted Ecolog Environmental ERIS search.

Environmental Approvals, Certificates, and Instruments

Requests were submitted to the Ministry of Environment and Climate Change (MECP) under the Freedom of Information and Protection of Privacy Act relating to the Site. The requested information included environmental approvals, certificates and instruments maintained by the Ministry for the Site. The MECP responses dated November 30, 2018, to the inquiries indicated there were no records were located responsive to the request. A copy of the MECP FOI response is included in Appendix D.

The subcontracted Ecolog Environmental ERIS search identified the following, which were suggestive of a PCA:

- 23 Hurdman Road obtained both a Certificate of Approval (Air) and an Environmental Compliance Approval (Air) in 2003. The approvals were issued to 'Kelly's Auto Body (1984) Ltd'.
 - An autobody shop is a PCA (item 10 – Commercial Autobody Shops)

Inventory of Coal Gasification Plant Waste Sites in Ontario, April 1987

The report titled Inventory of Coal Gasification Plant Waste Sites in Ontario, April 1987 provides an inventory and preliminary assessment of the potential environmental impacts of 41 known manufactured gas plant waste sites in the Province of Ontario as of April 1987. Industrial facilities that utilized coal carbonization for manufacturing of gas, coke, ammonia, and other products were address in this study.



- The Site was not listed in the Inventory of Coal Gasification Plant Waste Sites.
- Lees Avenue Gas Works | 450 m to the west southwest, 175 Lees Avenue was located between Lees Avenue and Highway 417, and between Lees Avenue ramps and Lees Avenue overpass. The Ottawa Gas Company operated the 3 Hectare (Ha) property under different names (Lees Avenue Gas Works Ottawa Gas Co, Ottawa Heat Light and Power Co, Interprovincial Utilities Ltd, Consumers Gas Co) between the 1920s and 1957.

In 1981-1986, the property was developed as underground bus transit way station and parking lot, a Consumers gas metering Station, a high rise apartment (169 Lees Ave) and vacant land. Tars were originally observed in the pump house of the transit way station and in the Rideau River (approximately 150 m to SE) in the vicinity of the outfall. Tars have also been observed under the foundations of 169 Lees Avenue.

It was also reported that ash and cinder are likely deposited on the former dump property that is now The University of Ottawa (190 m SW of the Site), and at 180 and 190 Lees Avenue (respectively 440 m and 395 m to southwest). Some tar and spent oxide wastes likely deposited south of Lees Avenue.

Given the distance of this property from the Site, it is not suspected that the former presence of the aforementioned coal gasification plant has significantly impacted the Site. The former coal gasification plant is not considered to represent an APEC for the Site.

Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario, November 1988

The report titled Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario, November 1988 provides the results of an inventory and preliminary assessment of potential environmental impacts of 44 known industrial sites in Ontario which produced or used coal tar and related tars, as of November 1988. This report was prepared to continue the inventory and assessment process started by the Inventory of Coal Gasification Plant Waste Sites in Ontario, April 1987.

- The Site was not listed in the Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars.
- Currie Products | located approximately 550 m to southwest, 170 Lees Avenue operated as a coal distillation plant between 1922 and 1949, but this property was also used for tar storage until about 1970. This property covered about 1.7 Ha, located between Lees Avenue and the Rideau River.

This property is presently occupied by a high-rise apartment with underground parking.

Coal Tar has been identified in soil and groundwater under the apartment building, extending to the west. Tar was also reportedly found seeping into the lowest level of the garage. Coal Tar in the soil has reportedly contaminated the groundwater which is migrating to the east. Coal tar has also been found in a storm sewer line that discharges to the river at the west limit of the Site.

Given the distance of this property from the Site, it is not suspected that the former presence of the aforementioned coal distillation plant has significantly impacted the Site. The former coal distillation plant is not considered to represent an APEC for the Site.



Ministry Environmental Incident Records

Requests were submitted to the Ministry of Environment and Climate Change (MECP) under the Freedom of Information and Protection of Privacy Act relating to the Site. The requested information included environmental incidents, orders, offences, spills, discharges of contaminants, or inspections maintained by the Ministry for the Site or for properties that may directly influence the environmental condition of the Site. The MECP response dated November 30, 2018 indicated that a spill report had been submitted to the MECP on October 26, 1992. The report indicated that a drum of paint stripper, of undefined volume, was overturned outside of Gary's Custom Cycle for over a month before the MECP arrived on the Site. No sign of spillage was noted and the Site was reportedly well run. Owner of Gary's Custom Cycle indicated that Safety Kleen conducts household hazardous waste pickup but was instructed to have a contract for waste pick up; no further action was deemed necessary.

A search for records of environmental incidents, orders, offences, spills, discharges of contaminants, or inspections maintained by the Ministry of the Environment for the Site or for properties that may directly influence the environmental condition of the Site was also conducted through the subcontracted Ecolog Environmental ERIS search. Five spills were reported for properties within 250 m of the Site, with details summarized below:

- A spill of approximately 10 L of motor oil from a vehicle into a catch basin was reported at 5-9 Hurdman Street in 1992. Environmental impact was not anticipated.
- A spill of an unknown volume of furnace oil was reported at 28 Robinson Avenue in 1988. The spill was from a leaking AST at the residence. Environmental impact to soil was deemed possible.
 - Fuel tanks are a PCA (item 28 - Gasoline and Associated Products Storage in Fixed Tanks)
- A spill of 110-115 L of non-PCB transformer oil was reported at 23 Hurdman Avenue in 2004. Environmental impact was not anticipated.
- A spill of 136 L of diesel fuel leaking from fuel barrels was reported at 29 Hurdman Road in 2009. Environmental impact was not anticipated.
- A spill of unknown volume from a leaking underground fuel tank was reported at 29 Hurdman Avenue in 2011. Environmental impact was not anticipated.
 - Fuel tanks are a PCA (item 28 - Gasoline and Associated Products Storage in Fixed Tanks).
 - This property is described as a Roads Department Yard. A Roads Department Yard is a PCA (item 52 - Storage, maintenance, fuelling and repair of equipment, vehicles, and material used to maintain transportation systems).

Several of the aforementioned spills are associated with PCAs, however given their distances from the Site and cross or down-gradient orientations these spills are not considered to represent APECs for the Site.

Waste Management Records - Ontario Regulation 347 Waste Receivers and Generators

Requests were submitted to the Ministry of the Environment, Conservation and Parks (MECP) under the Freedom of Information and Protection of Privacy Act relating to the Site. The requested information included records of waste generators and receivers under O. Reg. 347 maintained by the MECP for the Site that may directly influence the environmental condition of the Site. The MECP



response dated November 30, 2018 indicated that there was only one record of an Occurrence Report for a spill of paint stripper (discussed above in "Ministry Environmental Incident Reports"). No reports of waste generators and receivers was noted.

A search for records of waste generators and receivers under O. Reg. 347 maintained by the MECP was also conducted through the subcontracted Ecolog Environmental ERIS search.

- The Site is not listed in the Ontario Regulation 347 Waste Receivers and Generators.
- Eleven records of waste generator numbers were identified for 29 Hurdman Road (The City of Ottawa Roads Department yard) in the Ecolog ERIS search. For the years 1997 to 2008 the facility was registered as generating 221 (light fuels), 251 (oil skimmings and sludges) and 252 (waste oils and lubricants). In 2009, the facility stopped being registered as generating 221 (light fuels). Starting in 2010 the facility was registered as generating 145 (paint coatings residues), 251 (oil skimmings and sludges) and 252 (waste oils and lubricants).
 - A Roads Department Yard is a PCA (item 52 - Storage, maintenance, fuelling and repair of equipment, vehicles, and material used to maintain transportation systems).

Environmental Reports Submitted to the MECP

Requests were submitted to the Ministry of Environment, Conservation and Parks (MECP) under the Freedom of Information and Protection of Privacy Act relating to the Site. The requested information included environmental reports for the Site submitted to the MECP. The MECP responses dated November 30, 2018, to the inquiries indicated that no records were located responsive to the request.

The MECP FOI search was confirmed by the results of the subcontracted Ecolog Environmental ERIS search.

Technical Standards and Safety Authority (TSSA) Database

A request was submitted by GHD to the Technical Standards and Safety Authority (TSSA) to search their databases for any records of fuel storage tanks, spills, incidents or, infractions at the Site. An email response was received from the TSSA on November 20, 2018, indicating that there were no records in their database indicating the presence of storage tanks at the Site. A copy of the TSSA correspondence is included in Appendix D.

A search for records in the TSSA database within the Study Area was also conducted through the subcontracted Ecolog Environmental ERIS search.

- 13 Robinson Avenue was listed in the TSSA Historic Incidents (HINC) database as having an unidentified source of CO. The report is not dated.
- 85 Robinson Avenue is listed in the Retail Fuel Storage Tanks (RST) database as operating as an Oil Change and Lubrication Service Station.
 - A service garage is a PCA (item 52 - Storage, maintenance, fuelling and repair of equipment, vehicles, and material used to maintain transportation systems).
- 29 Hurdman Road is listed in the TSSA Incidents (INC) database as having a leaking fuel UST discovered on the property in 2011. Environmental impact was identified.



- Fuel tanks are a PCA (item 28 - Gasoline and Associated Products Storage in Fixed Tanks)
- A Roads Department Yard is a PCA (item 52 - Storage, maintenance, fuelling and repair of equipment, vehicles, and material used to maintain transportation systems)

MECP Notices, Instruments and Records of Site Condition

The Ministry of the Environment (MECP) Brownfields Environmental Site Registry (ESR) was consulted for historical certificates and instrument compliance records and records of site condition (RSCs). The Site was not listed in the Brownfields ESR. No properties within 250 m were listed in the Brownfields ESR.

A search for RSCs in the MECP database within the Study Area was also conducted through the subcontracted Ecolog Environmental ERIS search. The Site was not listed in the Brownfields ESR. No properties within 250 m were listed in the Brownfields ESR.

Areas of Natural Significance

The Ministry of Natural Resources and Forestry (MNRF) Geographical Information System (GIS) mapping software was consulted by GHD to investigate areas of natural significance in the Phase One Study Area. No areas of natural significance were identified within 250 m of the Site.

MOE Waste Disposal Site Inventory, June 1991

The MOE (now MECP) Waste Disposal Site Inventory June 1991 contains a list, prepared by the MOE, of all known active and closed waste disposal sites in the Province of Ontario as of October 31, 1990. The document contains an active site inventory, a closed site inventory, a closed municipal coal gasification plant site inventory, and an inventory of industrial sites producing and using coal tars and related tars in Ontario.

There was one closed waste disposal site identified in the inventory:

- Lee's Avenue (Algonquin College), Site ID X1017 was identified approximately 180 m south of the Site. This former waste disposal Site was reportedly closed in 1947 and was identified as a class A5 landfill, municipal/domestic waste in an urban setting.

The presence of a former landfill is considered a PCA (item 58: Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste), however, given its distance and interpreted cross-gradient orientation with respect to the Site, this former landfill is not considered to represent an APEC for the Site.

There were no active waste disposal sites listed within a 500 m radius of the Site listed in the MECP Waste Disposal Site Inventory, June 1991.

City of Ottawa, Old Landfill Management Strategy, October 2004

GHD also reviewed the report titled Old Landfill Management Strategy, Phase I - Identification of Sites, City of Ottawa, October 2004, prepared by Golder Associates, which indicated the neighbouring property to the east of DuMaurier Avenue as part of the Pinecrest and DuMaurier closed landfill site. The following information was reviewed as part of this Phase One ESA:

- Active Time Period | Evaluated 1933 to 1947 from aerial photographs.



- Total Approximate Area | 6 hectares (Ha), bounded by north (west) bank of Rideau River, Lees Avenue, property line between 170 and 180 Lees Avenue and Highway 417.
- Waste Thickness | Estimated depth of refuse is 3.1 to 4.6 m.
- Type of Waste | incinerator ash (Lees Incinerator) and other burnt waste.
 - Based on the above information, the closed landfill is considered a PCA (item 58: Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste), however as noted above, given its distance and interpreted cross-gradient orientation with respect to the Site, this former landfill is not considered to represent an APEC for the Site.

City Directories

City directories list occupant(s) at a site address for a specific year, and infer land use with respect to occupant history. GHD consulted National Archives Canada located in Ottawa, Ontario, for any publicly available historical city directories for intermittent years between 1891 and 2011. The Civic address of the Site includes 36, 38, 40 and 44 Robinson Avenue.

According to the information obtained from the reviewed city directories, Robinson Avenue was not included in the 1900 or 1905 city directories.

The Site Civic Addresses (36-44 Robinson Avenue) are not included in the 1910, 1915, 1921, 1925, 1930, 1935, 1940, and 1945 directories; note that this information contradicts the information presented on the 1902 and 1912 fire insurance plans which show a single residential building on the Site. The 1950, 1955, 1960, 1970, 1980, and 1990 directories describe the Site as residential. The 2000 and 2010 list the occupants as both residential and commercial (Gary's Custom Cycle at 36 Robinson Avenue).

Surrounding land use in the Study Area identified the following non-residential land uses:

- 170 Lees Avenue | Hamilton Tar Products in 1930, Currie Tar Products in 1935, Currie Tar and Pitch Products Ltd in 1940, 1945, 1955, 1960, vacant in 1970, residential in 1980
- 175 Lees Avenue | Railway tracks in 1915, 1921, 1925, railway tracks and Ottawa Gas Co in 1930, 1935, 1940, Railway Tracks and Ottawa Light Heat and Power Co in 1945, 1950, railway tracks and Interprovincial Utilities Ltd Gas Plant in 1955, 1960
- 181 Lees Avenue | Hayley & Sons Garage in 1950, 1955, 1960, Hayley Industrial Equipment in 1970
- 200 Lees Avenue | Algonquin School of Technology in 1970, 1980, 1990, 2000
- 229 Lees Avenue | Ottawa Beef Co Ltd in 1955, 1960, 1970, 1980, 1990
- City weigh scales between Hurdman Road and the railway in 1920, suggesting commercial land use
- Hurdman Avenue | Canadian Northern Ontario Railway Station and Freight Sheds in 1910, 1921, CNR Yard and Rideau Supply Co Yards in 1925, CNR Yard and Hayley Building Materials and Rideau Supply Co Yards in 1930, CNR Yard and Ideal Corrugated Sheet Metal and Hayley Building Materials and Dominion Reinforcing Steel Co Ltd in 1935, CNR Yard and Ideal Corrugated Sheet Metal and White Granite Co Cement Block and Hayley Building Materials and



Dominion Reinforcing Steel Co Ltd in 1940, CNR Yard and Ideal Roofing Co. Sheet Metal and Sphinx Manufacturing Co. Oil Burners and Hayley Building Materials and Dominion Reinforcing Steel Co Ltd. in 1945, 1950 CNR Yard and Manufacturers Product Ltd. Roofing and Flintkote Construction Canada Ltd., and Weldwood Plywood Ltd and Green AD Fire Brick Co and Ideal Roofing Co. Sheet Metal and Hayley Building Materials and Sphinx Mfg. Co Oil Burners and Dominion Structural Steel in 1955, CNR Yard and Manufacturers Product Ltd. Roofing and Flintkote Construction Canada Ltd. and Weldwood Plywood Ltd and Green AD Fire Brick Co. and Ideal Roofing Co. Sheet Metal and Hayley Building Materials and Sphinx Mfg. Co. Oil Burners and Dominion Structural Steel and Queensway Builders Ltd and Husmith Waterproofing and Paving Ltd. and Loyd & Sons Doors Ltd. in 1960, and Hayley Equipment Co. in 1970, City of Ottawa Department of Operations Roadway Division in 1990

- 23 Hurdman Avenue | Kelly's Auto-Body in 1980, 1990, 2000, 2010
- 18 Robinson Avenue | WA Hare Warehouse 1930, Hare Equipment Machine Shop in 1940, 1950, 1955, 1960, 1970, 1980
- 37 Robinson Avenue | Fournier Garage 1930, 1935, Fournier Van and Storage garage in 1940, 1945, 1950, 1955
- 39 Robinson Avenue | Fournier Van and Storage in 1940, 1945, 1950, 1955, Kinetech Logistics in 2010
- 44 Robinson Avenue | JRDL Custom Woodworking in 1990

The adjacent neighbouring properties were first listed in 1900 for residential occupancy, and in subsequent directories were listed for residential, commercial or industrial purposes. The following operations, which are considered potentially contaminating activities (PCAs), were identified within 250 m in the City directories:

Table 3.2 Summary of Off-Site PCAs Identified in City Directory Research

Listing	Location	Years Listed	APEC (Y/N)
Hamilton Tar Products, Currie Tar Products, Currie Tar and Pitch Products Ltd	170 Lees Avenue	1930, 1940, 1950, 1960	N
Ottawa Gas Co, Ottawa Light Heat and Power Co, and Interprovincial Utilities Ltd Gas Plant	175 Lees Avenue	1930, 1935, 1940, 1945, 1950, 1955, 1960	N
Railway Tracks	Various locations, north, west and southwest of the Site	1915, 1921, 1925, 1930, 1940, 1950, 1960, 1970	N
Hayley & Sons Garage, Hayley Industrial Equipment	181 Lees Avenue	1950, 1955, 1960, 1970	N
Dominion Reinforcing Steel Co Ltd	Hurdman Avenue	1935, 1940, 1945, 1950, 1960,	N



Table 3.2 Summary of Off-Site PCAs Identified in City Directory Research

Listing	Location	Years Listed	APEC (Y/N)
CNR Yard	Hurdman Avenue	1910, 1921, 1925, 1930, 1935, 1940, 1945, 1950, 1960,	N
Kelly's Auto-Body	23 Hurdman Avenue	1980, 1990, 2000, 2010	N
Hare Equipment Machine Shop	18 Robinson Avenue	1940, 1950, 1955, 1960, 1970, 1980	N
Fournier Garage, Fournier Van and Storage Garage	37 Robinson Avenue	1930, 1935, 1940, 1945, 1950, 1955	N

The aforementioned listings are considered to be associated with Potentially Contaminating Activities (PCAs) and are summarized in Section 6.2.2 of this report. None of these historical operations are considered to represent areas of potential environmental concern (APECs) for the Site.

Mapping and Assessment of Former Industrial Sites, City of Ottawa

The report titled Mapping and Assessment of Former Industrial Sites, City of Ottawa, July 1988 provides the results of an inventory and preliminary assessment of 177 known former industrial sites in the City of Ottawa, as of July 1988.

The Site is not listed in the Mapping and Assessment of Former Industrial Sites, City of Ottawa, July 1988.

Within the Study Area there were two former industrial sites identified within 250 m of the Site.

- The Lees Avenue Landfill is shown located between Lees Avenue/Highway 417 and the Rideau River. The landfill is diagrammed as approaching within 190 m of the southwestern limits of the Site, in the space presently occupied by 170 and 200 Lees Avenue.
 - Item 58: Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste is a PCA
- Ottawa Gas Co. (gasworks), located at 175 Lees Avenue, is shown to approach within 230 m to the southwest
 - Item 9: Coal Gasification is a PCA

Given their distances and/or orientations with respect to the Site, these former industrial sites are not suspected to have impacted the subject property.



3.3 Physical Setting Sources

3.3.1 Aerial Photographs

Aerial photographs are reviewed to generally document development of the Site and properties in the vicinity of the Site. They identify potential waste disposal areas, storage activities, land filling, and other potential adverse environmental concerns on Site and in the immediate vicinity of the Site. Aerial photographs of the Site and surrounding area were obtained for intermittent years between 1928 and 2017 at the National Air Photograph Library located in Ottawa, Ontario and from the City of Ottawa geoOttawa website. Comments for each photograph are presented in the following table. Copies of selected aerial photographs are presented in Appendix E.

Table 3.3 Aerial Photographs

Year	Site	Neighbouring Properties
1928	What appears to be a residential dwelling is located on the west portion of the Site. The remainder of the Site appears to be undeveloped.	Robinson Avenue has been constructed to the north of the Site. Neighbouring properties to the north, south and west have been developed for residential purposes. What appears to be some commercial/industrial development is apparent on the property to the northeast of Robinson Avenue. There is some soil disturbance evident at the adjacent property to the west. Further south and southwest of the Site, industrial development is apparent, including an industrial property approximately 60 m south of the Site, the CP and CN Rail Lines approximately 120 m and 150 m southwest of the Site, respectively, followed by industrial land use (Ottawa Gas Co., and Currie Gas Works) approximately 230 m and 530 m to the southwest, respectively. Soil disturbance, interpreted as placement of fill material, is apparent approximately 100 m south of the Site.
1958	The Site has been developed with what appear to be the four present day buildings.	The adjacent land to the northeast and southwest of the Site is residentially developed. Increased residential development is apparent between Robinson Avenue and Lees Avenue, while increased industrial development is apparent further to the southwest.
1965	The Site is essentially unchanged from 1958 aerial photograph.	The Trans Canada Highway (HWY 417) has been constructed, approximately south 90 m southwest of the Site. The property located approximately 180 m south of the Site has been developed with what appears to be an institutional campus.
1976	The Site is essentially unchanged from the 1965 aerial photograph with the exception of increased vegetative cover on the south portion of the Site.	The former industrial property located approximately 60 m south of the Site appears to have been cleared of buildings. Robinson Avenue has been extended to intersect with a newly constructed extension of Lees Avenue, located approximately 220 m west of the Site. The former industrial properties located approximately 230 m and 530 m southwest of the Site have been cleared. The former railway lines located approximately 120 m and 150 m southwest of the Site have also been decommissioned, and an expansion of Highway 417 is apparent.



Table 3.3 Aerial Photographs

Year	Site	Neighbouring Properties
1991	The Site is essentially unchanged from 1976.	The former industrial property to the north of Robinson Avenue, further north of the Site, has been redeveloped with the present day residential buildings. The industrial property located approximately 60 m south of the Site has been redeveloped with the present day municipal works yard. Neighbouring properties to the southwest have undergone residential redevelopment.
1999	The Site is essentially unchanged from 1991.	The neighbouring properties adjacent to the east and south of the Site have been redeveloped for residential purposes with what appear to be the present day buildings.
2008	The Site is essentially unchanged from 2007.	Neighbouring properties are essentially unchanged from 2007.
2017	The Site is essentially unchanged from 2014.	The neighbouring property to the southwest has been redeveloped with what appears to be the present day residential building. Other neighbouring properties are essentially unchanged from 2017.

Aerial photographs indicated the subject Site had been at least partially developed since at least 1928. The Site was redeveloped with what appear to be the present day Site buildings between 1928 and 1958; the Site was essentially unchanged since the 1958 aerial photograph.

The following PCAs were observed in a review of the aerial photographs:

- The property located approximately 70 m north of the Site (presently Robinson Field) was observed to operate as a rail yard. A rail yard is a PCA (item 46 - Rail Yards, Tracks and Spurs).
- The CN and CP Rail lines were present approximately 140 m and 160 m to the southwest of the Site, respectively. Rail lines are PCAs (item 46 - Rail Yards, Tracks and Spurs).
- The property identified as Lees Avenue Gasworks was observed approximately 230 m southwest of the Site. Coal gasification is a PCA (item 9 – Coal Gasification).
- The property located approximately 190 m south of the Site, currently developed with a portion of the University of Ottawa campus, showed evidence of fill placement. Fill placement is a PCA (item 30 - Importation of Fill Material of Unknown Quality).
- The Currie Products distillation facility was identified on the south side of Lees Avenue, approximately 530 m southwest of the Site. A coal tar distillation plant is a PCA (item 8 – Chemical Manufacturing, Processing, and Bulk Storage).
- The property currently addressed as 29 Hurdman Road, located approximately 60 m south of the Site was shown to be occupied by various industrial operations and stockpiled material between 1928 and 1965. The 1991 aerial photographs show the property has been redeveloped, with different layout of industrial buildings and a dry storage cone, interpreted as the present day municipal works yard. Fill placement is a PCA (item 30 - Importation of Fill Material of Unknown Quality). The operation of a municipal works yard is also a PCA



(item 52 - Storage, maintenance, fuelling and repair of equipment, vehicles, and material used to maintain transportation systems)

- The adjacent property to the east of the Site was depicted to be occupied by multiple connected industrial buildings and parking areas between at least 1958 and 1991.

None of the aforementioned PCAs are considered to represent APECs for the Site based on the observations from the aerial photograph review. The majority of these properties are located at significant distances and/or cross- or down-gradient with respect to the Site and are not anticipated to have significantly impacted the subject Property.

It should be noted that the scale of the aerial photographs did not permit an accurate interpretation of detailed features of the Site or the adjacent properties.

3.3.2 Topography, Hydrology, Geology

A Topographic map was reviewed from the Ontario Ministry of Natural Resources and Forestry, and is provided in Figure 1. The mapping shows the Site is on relatively flat terrain, with general topography sloping towards the northeast, east, and south. The nearest surface water body indicated on the mapping is the Rideau River which flows north and is located approximately 110 m to the northeast, 150 m to the east, and 375 m to the south of the Site.

According to the information obtained from the Geological Survey of Canada map 1506A titled 'Surficial Geology – Ottawa Ontario' the natural soil conditions of the Site appear to consist of (Glacial) Till Plains less than 5 m in relief. Elsewhere in the Phase One Study Area, Champlain Sea Sediments (blue-grey silt and clay marine deposits reworked by fluvial actions causing lenses bars and channels of sand deposits) were located approximately 205 m to south and 85 m to northeast. There is also a small area of Post Champlain Sea deposits of silty sand, silt, and sand and clay deposits of floodplains and area of low relief) that is present approximately 250 m to northwest.

According to the information obtained from the Ontario Geologic Survey Map P. 2716 titled 'Paleozoic Geology Ottawa Area', the bedrock in the Study Area is described as the Paleozoic (Upper Ordovician) Carlsbad Formation, consisting of interbedded dark grey shale, fossiliferous calcareous siltstone, and silty bioclastic limestones.

According to records from the water well information system and borehole databases, as presented in the results of the subcontracted Ecolog Environmental ERIS search, the overburden soil in the vicinity of the Site consist of a mixture of sand and clay type soils.

3.3.3 Fill Materials

The Site has surface cover of landscape/grass vegetation and gravel or asphalt driveways. The Site is slightly higher than Robinson Avenue to the north and level with the surrounding neighbouring properties.

No evidence of fill material at the Site was identified during the environmental records review.

3.3.4 Water Bodies and Areas of Natural Significance

No natural surface water bodies were identified on the Site.



The nearest surface water body indicated on the mapping is the Rideau River, located approximately 110 m to the northeast, 150 m to the east, and 375 m to the south of the Site.

There are no areas of natural significance within 250 m of the Site.

3.3.5 Well Records

A request was submitted to Ecolog ERIS to search for records of water wells registered with the MECP. Seventeen water wells were registered with the MECP for properties within approximately 250 m of the Site, respectively. All of the registered wells indicated are associated with monitoring and observation wells.

Given that the Site is located in an urban area within the City of Ottawa and that municipally treated water is available, it is not suspected that there are any active potable water wells remaining within the Phase One study area. A copy of the MECP well record search is present within the Ecolog ERIS database summary.

3.4 Site Operating Records

There were no Site operating records available for review following the specific request to the existing owner.

4. Interviews

Mr. Gary Courville, the current owner of the Site, was interviewed at the time of the Site visit. Mr. Courville stated that he had been familiar with the Site for 45 years. Mr. Courville stated that, to his knowledge, the Site had been used for residential purposes from its original development until the 1980s when Mr. Courville purchased the Site. Beginning in the 1980s, 36 Robinson Avenue was repurposed by Mr. Courville into a motorcycle service garage. It remained a service garage until the early 2000s when it was used to sell motorcycle parts and services/repairs were no longer offered. It has remained a parts retail location until the present. Mr. Courville, also stated, that 40 Robinson Avenue has been seasonally used as a motorcycle service garage from approximately 2007 to the present. Mr. Courville stated that all the buildings on the Site were currently heated by electric baseboard heaters. Mr. Courville stated that a natural gas line had been installed to the west side of 36 Robinson Avenue, however, it had never been connected for use. Besides the interior Aboveground Storage Tank (AST) associated with 44 Robinson, Mr. Courville had stated that he had removed all Aboveground and Underground Storage Tanks from the Site in the 1980s-90s including an AST from 36 Robinson Avenue and an exterior AST and UST east of 44 Robinson Avenue. Mr. Courville stated that two in-ground hydraulic motorcycle service lifts had been installed at 36 Robinson Avenue when the building had been used as a service centre and that the two lifts were still in place. Mr. Courville was not aware of any spills at the Site and that the only chemicals currently stored at the Site were domestic grade cleaning chemicals. Mr. Courville stated that when in operation as a motorcycle service facility, that all waste chemicals were removed from the Site by licensed hazardous waste companies.



5. Site Reconnaissance

5.1 General Requirements

GHD conducted a Site visit of the Property on December 17, 2018 between 1:00 p.m. and 3:00 p.m. The visit was conducted by Mr. Luke Lopers, P. Eng., who has ten years' experience of conducting Phase One ESAs. Mr. Thomas Neulieb, M.Sc. of GHD was also on Site during the Site Visit. GHD was accompanied by Mr. Gary Courville for the duration of the Site Visit. Weather conditions were overcast with an approximate temperature of 0°C.

Site photographs were taken at the time of the Site Visits and are presented in Appendix F.

5.2 Specific Observations at Phase One Property

5.2.1 On-Site Structures and Improvements

Above Ground Structures

Two residential buildings, civically addressed as 38 and 44 Robinson Avenue, and two commercial buildings, civically addressed as 36 and 40 Robinson Avenue, occupied the Site at the time of the Site visit. Three of the subject buildings, 36, 38, and 40 Robinson were occupied, while 44 Robinson Avenue was vacant at the time of the Site visit.

It was reported by Mr. Gary Courville that the current buildings had been constructed in the 1940s. All of the buildings were single storey slab-on-grade construction, with the exception of 44 Robinson Avenue (two storey slab-on-grade construction), with concrete foundations. The exterior of the Site buildings were finished with concrete block, parging or stucco material with portions of the exterior of 36 and 44 Robinson Avenue being covered with plywood or metal siding. All of the buildings had wood framed windows and wood or metal doors. The roofs were either sloped and covered with asphalt shingles (36 and 44 Robinson) or were conventional built up roofs (38 and 40 Robinson).

Below Ground Structures

Two in-ground hydraulic motorcycle service hoists were observed in 36 Robinson Avenue and were confirmed by Mr. Gary Courville. The portion of the in-ground motorcycle lift that was visible above ground was approximately a 12" by 12" square plate. The presence of these in-ground lifts is considered to be associated with a PCA (item 27: Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles) and contribute to an Area of Potential Environmental Concern (APEC) for the Site.

5.2.2 Tanks

Above Ground Storage Tanks (ASTs)

The presence of one current interior AST was observed by GHD at the time of the Site visit; this AST was located on the interior east wall of 44 Robinson Avenue. The AST was originally used to store furnace oil, however, at the time of the Site visit, the building was vacant, not heated and the AST was empty and not actively in use. The AST was approximately 905 L in size and was constructed of



steel. No fuel odor was observed within the area of the AST. The presence of this AST is considered a PCA and contributes to an APEC for the Site.

Historically, Mr. Gary Courville had stated that all other furnace oil ASTs had been removed in the 1980s-90s; including an AST from outside the northwest corner of 36 Robinson Avenue. The removal of an exterior AST from the east side of 44 Robinson Avenue is also discussed in previous environmental reports for the Site (Section 3.1.5). The presence of former ASTs is considered a PCA and contributes to an APEC for the Site.

Underground Ground Storage Tanks (USTs)

No evidence of current USTs were observed by GHD at the time of the Site visit. Mr. Gary Courville stated that a UST had been previously removed from the east side of 44 Robinson Avenue in the 1990s. This was confirmed by previous environmental reports (Section 3.1.5). The presence of a former UST is considered a PCA and contributes to an APEC for the Site.

5.2.3 Water Sources

Municipal water and sewer services are supplied by underground service trenches on the north portion of the Site leading to Robinson Avenue. No present day or historical water supply wells were observed or reported to exist on-Site during the Site Visit.

5.2.4 Utility Corridors

A natural gas line was reportedly installed to 36 Robinson Avenue, however, was never activated. Communications and electrical services connections are from hydro poles north of the Site.

5.2.5 Building Features

Exit and Entry Points

The Site buildings were observed to have two exterior entry/exit points, including a main entrance and a back door exiting into the backyard. These entry and exit points are depicted on Figure 2: Site Plan.

5.2.6 Heating Systems

The Site buildings civically addressed as 36 and 40 Robinson Avenue were equipped with electrical baseboard heaters at the time of the Site visit. The buildings civically addressed as 38 and 44 Robinson Avenue was reported by Mr. Gary Courville to be heated by electrical heaters, however, none were noted in 44 Robinson and access to 38 Robinson could not be obtained at the time of the Site visit. Former heating was reported by Mr. Courville as being provided by oil furnaces.

Cooling Systems

An individual window mounted air conditioning unit was present in 40 Robinson Avenue at the time of the Site visit. It was not suspected that any other cooling systems existed for the buildings or are individual window mounted air conditioners which are installed and removed seasonally.



5.2.7 Drains, Pits, and Sumps

No pits, drains or sumps were observed in any of the Site buildings at the time of the Site visit.

5.2.8 Unidentified Substances

There were no visually obvious unidentified substances observed during the Site visit.

5.2.9 Interior Stains or Spills

There was evidence of minor historical surface spills/stains on the concrete floor of both 36 and 40 Robinson Avenue, which have both been used as motorcycle service and repair shops. There were no signs of surface cracks through the concrete floors at the time of the Site visit.

5.2.10 Site Features

Wells

The landscaped areas of the Site were covered with snow at the time of the Site visit. Mr. Gary Courville stated that a monitoring well had been installed in the back yard south of 38 Robinson Avenue, however, no wells/monitoring wells were observed at the time of the Site visit. No monitoring well installations at the Site were discussed in the previous environmental reports or reported in the Ecolog Eris database report.

Sewage Works

Sewage is discharged to the City of Ottawa sanitary sewer system through underground piping. Location of piping could not be determined at time of this investigation. There was no evidence of current or former septic systems on the Property at the time of Site visit.

Ground Surface

The ground surface in the undeveloped areas of the Site consisted of grass, vegetation, and some trees in the front and back yards. The majority of the back yard was covered in snow at the time of the Site visit, which limited the investigation of the ground surface in that area. Asphalt or gravel driveways were present for each building with access to the north from Robinson Avenue.

Railway Lines

There were no railway lines on the subject Site or within a 250 m radius of the Phase One Property observed at the time of the Site Visit.

5.3 Environmental Site Observations

5.3.1 Staining

No staining of the asphalt, surface soil or vegetated areas was observed at the time of the Site visit, however it should be noted that the ground surface was snow covered at the time of the Site visit.



5.3.2 Stressed Vegetation

No distressed vegetation, abnormal odours or visual evidence of contamination, suggesting the presence of chemical or petroleum spills or releases, were observed, however it should be noted that the ground surface was snow covered at the time of the Site visit.

5.3.3 Areas of Fill or Grading

The Site is relatively flat and generally at grade with the neighbouring properties. No evidence of fill materials or grading was noted during the Site visit.

5.4 Potentially Contaminating Activities

Potentially Contaminating Activities (PCAs) are listed in Ontario Regulation 153/04 Schedule D Table 2.

There were three PCAs observed at the Site during the Site visit:

- Fuel Aboveground Storage Tank | While empty at the time of inspection, the on-Site AST located inside 44 Robinson Avenue on the ground floor on the east side of the building along the eastern wall is considered a PCA (item 28 | Gasoline and Associated Products Storage in Fixed Tanks). This PCA contributes to an APEC.
- Former Automotive Garage | 36 Robinson Avenue contained two in-ground hydraulic hoists, remaining from the previous use as a motorcycle garage. An automotive garage is considered to be a PCA (Item 27 Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles). This PCA contributes to an APEC.
- Current Automotive Garage | 40 Robinson Avenue currently operates as a motorcycle garage. An automotive garage is considered to be a PCA (Item 27 Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles). This PCA contributes to an APEC.

5.4.1 Unidentified Substances

Unidentified substances were not observed at the Site during the Site Visit.

5.4.2 Enhanced Investigation Property

According to Ontario Regulation 153/04 Schedule D 32(1)b(i), the Site is classified as an 'Enhanced Property' for the purposes of this Phase One Study, as portions of the Site historically or currently been used as a commercial garage.

Site Operations and Equipment

Beginning in the 1980s, 36 Robinson Avenue was reportedly repurposed by Mr. Courville into a motorcycle service garage. It remained a service garage until the early 2000s where it was used to sell motorcycle parts and services/repairs were no longer offered. It has remained a parts retail location till the present. Observed equipment present included the following:

- Two in-ground hydraulic motorcycle hoists
- A hand pallet jack truck



- Hand tools

Since 2007, 40 Robinson Avenue has been seasonally used as a motorcycle servicing location, operating as a general automotive service garage. Equipment observed during the Site Visit included the following:

- A manual motorcycle tire changing machine
- Automotive Testing equipment
- Hand tools
- A compressor unit

Hazardous Materials

Hazardous Materials are those products that may cause fires, explosions, or health problems. Federal legislation (the Hazardous Products Act and Controlled Product Regulations) deals with the importation and sale of controlled products. The federal Workplace Hazardous Materials Information System (WHMIS) addresses the identification of these materials through symbols, labeling, and Material Data Safety Sheet (MSDS). While some materials are partially exempt, under WHMIS there are six classes of hazardous materials; compressed gasses, flammable/combustible materials, oxidizers, poisons and infectious materials, corrosive materials, and dangerously reactive materials. In addition, there are materials that could be classified as leachate toxic.

As indicated, the majority of the materials in both 36 and 40 Robinson Avenue buildings are in the original containers, and so will bear labels identifying the class(es) of hazard(s) possessed by their contents. These include paints, solvents, cleaners, lubricants, cooling fluids, and other liquids typical of vehicle servicing. In addition to the labeled containers, during Site visit gasoline and lubricants were observed in 20 L containers, used (waste) motor oil was stored in a 200 L metal drum for temporary storage until removed from the Site by Safety-Kleen.

The Site is not listed as a Hazardous Waste Generator, and does not have a HWIN number.

Manufactured Products

The Site was not engaged in manufacturing.

By-Products and Wastes

36 Robinson Avenue is currently not active as a service garage, and so does not presently generate By-Products or Waste. 40 Robinson Avenue is currently functioning as a motorcycle service garage.

The wastes generated by the motorcycle service garage at 40 Robinson Avenue includes domestic and packing waste, scrap metal, waste oils and sludges and lubricants, waste automotive fluids, non-metallic waste autoparts (trim, tires, hoses, filters, etc.), partial containers of paint and solvents, paint dust, and waste filler material. In the past, 36 Robinson Avenue would have generated similar wastes when operating as a motorcycle service garage.

The owner of the Site, Mr. Gary Courville, indicated that all the liquid automotive wastes were taken off Site by Safety Kleen from 40 Robinson Avenue.



Raw Material Handling and Storage

36 Robinson Avenue currently functions as a motorcycle parts retailer. Raw materials include various automotive parts related to motorcycle upgrading and repair stored on shelves.

40 Robinson Avenue currently functions as a motorcycle service garage and receives raw materials (parts, paints, etc.) that are stored, generally, on the floor.

In general, all liquids were stored in labeled containers. Flammable storage units were not observed during the Site visit.

Drums, Totes, and Bins

Numerous cardboard containers and plastic bins were observed in the buildings on Site, generally filled with useable parts, garbage waste, recyclable materials (metals, or used parts). One 200 L drum was noted in 40 Robinson Avenue for holding waste oil and lubricants. In general, the interiors of the Site buildings were in a state of poor housekeeping.

Oil/Water Separators

No oil/water separators were observed or reported by the owner during the Site visit.

Vehicle and Equipment Maintenance Areas

40 Robinson Avenue was, at the time of the Site visit, actively used as a vehicle repair area and 36 Robinson Avenue had been used as a vehicle repair area until approximately the year 2000. 38 and 44 Robinson Avenue are currently residential, however, 44 Robinson was vacant at the time of the Site visit. In general, the internal areas of 36 and 44 Robinson Avenue were in a state of poor housekeeping; with boxes and parts cover large portions of the floor space of these buildings.

Spills

Minor historical spills are evident in the former service area in 36 Robinson Avenue and in the current service area in 40 Robinson Avenue. The visually assessed sections of the floors did not reveal extensive cracks at the time of the Site visit.

The Ecolog ERIS report did not identify any records pertaining to the MOE Spills database.

Liquid Discharge Points

Roof runoff from the building is directed to the municipal storm sewers.

The toilets and sinks on Site are suspected to drain to the municipal sanitary sewers.

Hydraulic Lift Equipment

There are two in-ground motorcycle hoists located in the south end (the former service area) of 36 Robinson Avenue. These units have not been operated since approximately 2000. There were no operating or servicing records available for these units provided to GHD by the current owner of the Site.



5.4.3 Phase One Study Area (properties within 250 m)

At the time of the Site Visit, the properties adjacent to the Site were visually examined for evidence of potentially contaminating activities (PCAs) and areas of potential environmental concern (APECs) that may adversely impact the Site. The Site Visit was conducted from public rights-of-way without physically accessing adjoining properties. For the purpose of this study, Robinson Avenue is considered to be the east-west axis. At the time of Site Visit the area within 250 m of the Site is occupied by the following facilities or features:

- North | Robinson Avenue, followed by residential dwellings at Civic No. 35 Robinson Avenue, followed by parkland, followed by residential apartments at Civic Nos. 310 and 320 Wiggins Private.
- East | Residential dwellings at Civic Nos. 59, 60, 61, 62, 63, 64, 65, 67, and 69 Robinson Avenue, followed by the Rideau River.
- South | Residential dwellings at Civic Nos. 124, 118, 116, and 110 Robinson Avenue, followed by a municipal works yard at Civic No. 29 Hurdman Road.
- West | Residential dwellings at Civic Nos. 32, 30, 28, 26, 24, 20, 16, 14, 12, 10, and 8 Robinson Avenue, followed by residential dwellings at Civic Nos. 15, 17, and 19 Hurdman Road, followed by Hurdman Road, followed by the Highway 417 right-of-way and adjacent land.

The Site and surrounding properties are located in a predominantly residential and commercial sector of the City of Ottawa, with some industrial (Municipal Works Yard) and institutional (University of Ottawa) uses.

The land use and PCAs identified in the Phase One Study area are presented in Figure 3: Surrounding Land Use. The off-Site PCAs and are summarized in Section 6.2.2 of this report.

6. Review and Evaluation of Information

6.1 Current and Past Uses (Site)

Current and past land uses of the Site are summarized in Table 6.1.

Portions of the Phase One Property changed ownership between individuals from at least 1889 to between 1957 and 1969. Vorcan Tool Company Limited consolidated the property in 1969. The property was owned by corporations between 1969 and 1981, before returning to individual ownership.



Table 6.1 Summary of Current and Past Use

Year	Name of Owner	Description of Property Use (Property Use)	Other Observations from Aerial Photos, Fire Insurance Plans (etc.)
1889 to 1957 (1969 for some portions)	Individuals	Site occupied by residential dwellings (Residential Use)	Site developed for residential purposes (Title search, city directories, aerial photographs, interview)
1969 to 1981	Corporations		
1981 to present	Individual		
		Site occupied by two residential dwellings and two buildings used for commercial purposes (Commercial Use)	Commercial use at 36 and 40 Robinson Avenue verified by City Directories, interview and Site visit.

6.2 Potentially Contaminating Activities

6.2.1 Summary of On-Site Potentially Contaminating Activities

Three Potentially Contaminating Activities (PCA) were suspected to have occurred historically and currently at the Site were identified during the Phase One ESA.

- On-Site above ground fuel storage tanks (ASTs) and underground fuel storage tanks (USTs) storing fuel oil had been discussed during the interview with the Site owner during the Site visit and in the previous environmental reports, as documented in Section 3.1.5 of this report. Fuel storage tanks are considered a PCA under O. Reg. 153/04.
- The historical and current use of 36 and 40 Robinson Avenue, respectively, as automotive garages identified during the Site visit, is considered a PCA under O. Reg.153/04.

A summary of the identified PCAs and location on the Site is presented in Table 6.2 below. The location of the PCAs are shown on Figure 2: Site Plan, Figure 3: Surrounding Land Use.

Table 6.2 Summary of On-Site Potentially Contaminating Activities (PCAs)

Plan Reference Number	Potentially Contaminating Activity	Location
1	Item 28: Gasoline and Associated Products Storage in Fixed Tanks.	East side of 44 Robinson Avenue building
2	Item 27: Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles (includes in-ground hoists at 36 Robinson Avenue)	36 Robinson Avenue
3	Item 27: Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles	40 Robinson Avenue



6.2.2 Summary of Off-Site Potentially Contaminating Activities (Phase One Study Area)

There are 17 potentially contaminating activities (PCAs) identified at neighbouring properties within the Phase One Study Area as part of this assessment. A summary of the off-Site PCA's identified in the Phase One Study Area and their location with respect to the Site are presented in Table 6.3 below. The locations of these PCAs are shown on Figure 3: Study Area and Figure 4: Potentially Contaminating Activities.

Table 6.3 Summary of Off-Site Potentially Contaminating Activities (PCAs)

Plan Reference Number	Potentially Contaminating Activity	Location
4	Suspected - Item 28: Gasoline and Associated Products Storage in Fixed Tanks.	85 Robinson Avenue Adjacent to east of the Site
5	Item 27: Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles Item 28: Gasoline and Associated Products Storage in Fixed Tanks.	37 Robinson Avenue Approximately 15 m north of the Site
6	Item 46: Rail Yards, Tracks, and Spurs Item 27 - Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles	Railway approximately 70 m north of the Site. Engine house approximately 160 m northwest of Site
7	Item 28: Gasoline and Associated Products Storage in Fixed Tanks. Item 48: Salt Manufacturing, Processing and Bulk Storage Item 52: Storage, maintenance, fuelling and repair of equipment, vehicles and material used to maintain transportation systems.	29 Hurdman Road Approximately 60 m south of the Site
8	Item 28: Gasoline and Associated Products Storage in Fixed Tanks.	33 Hurdman Road Approximately 80 m southwest of the Site
9	Item 10: Commercial Autobody Shops Item 27: Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles	23 Hurdman Road (suspected former addresses also include 25 Hurdman Road and 181 Lees Avenue) Approximately 70 m southwest of the Site
10	Item 28: Gasoline and Associated Products Storage in Fixed Tanks.	28 Robinson Avenue Approximately 20 m west of the Site
11	Item 34: Metal Fabrication	18 Robinson Avenue Approximately 75 m west of the Site
12	Item 46: Rail Yards, Tracks, and Spurs	Railway is approximately 140 m southwest of the Site, an engine house is shown approximately 175 m south of the Site



Table 6.3 Summary of Off-Site Potentially Contaminating Activities (PCAs)

Plan Reference Number	Potentially Contaminating Activity	Location
13	Item 46: Rail Yards, Tracks, and Spurs	Railway is approximately 160 m southwest of the Site
14	Item 58: Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste	Landfill was shown with limits approaching 180 m southwest of the Site
15	Item 9: Coal Gasification Item 30: Importation of Fill Material of Unknown Quality Item 58: Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste	175 Lees Avenue Property limits approaching within approximately 230 m to the southwest of the Site
16	Item 8: Chemical Manufacturing, Processing and Bulk Storage Item 30: Importation of Fill Material of Unknown Quality	170 Lees Avenue Approximately 530 m to the southwest

6.3 Areas of Potential Environmental Concern

Based on the previous investigations, the historical research and known information of the general area of the Site, there are three on-Site PCAs and one off-Site PCA's that are considered to contribute to on-Site Areas of Potential Environmental Concern (APEC) for the Site.

The three on-Site PCA's that are considered to contribute to APECs are:

- The heating oil UST and AST formerly located adjacent to 44 Robinson Avenue, the heating oil AST currently present on the interior of 44 Robinson Avenue and the former heating oil ASTs formerly located adjacent to each of 36, 38 and 40 Robinson Avenue | The associated area of potential environmental concern (APEC) is the northern portion of the Site.
- The former operation of an automotive (motorcycle) repair garage at 36 Robinson Avenue | The associated APEC is the area near/under the existing building identified as Civic Nos. 36 Robinson Avenue, on the west portion of the Site.
- The current operation of an automotive (motorcycle) repair garage at 40 Robinson Avenue | The associated APEC is the area near/under the existing building identified as Civic Nos. 40 Robinson Avenue, on the north-central portion of the Site.

The off-Site PCA that is considered to contribute to an APEC is:

- 85 Robinson Avenue (Ottawa Beef Co, abattoir) | Located adjacent to the east limit of the Site, this property was identified as a probable source of on-Site petroleum hydrocarbon contamination, as observed and described by others in previous investigations at the Site. It is suspected that the source of contamination at the 85 Robinson Avenue property was the historic



use and/or storage of fuels and/or chemicals. The associated APEC is near the east portion of the property.

6.4 Phase One Conceptual Site Model

Three plans are provided in this report to depict the conceptual Site model. Figure 1: Site Location Map shows the location of the Site within the City of Ottawa. Figure 2: Site Plan, shows the current configuration of the Site. Figure 3: Surrounding Land Use shows the uses of the neighbouring properties in the Phase One Study Area. The Site is immediately surrounded by residential and properties and is located in an area with residential, parkland, commercial, institutional, and industrial uses.

The Site, identified as 36 Robinson Avenue in Ottawa, Ontario, consists of a parcel of land with four buildings, with Civic Nos. 36, 38, 40 and 44 Robinson Avenue. Civic No. 36 and 40 Robinson Avenue are occupied by commercial buildings, while Civic Nos. 38 and 44 Robinson are considered residential. The Site is approximately 1,840 m² (0.18 hectares) in area (Site or Property).

No water bodies, areas of natural significance or drinking water wells are present at the Site. The nearest surface water body indicated on the mapping is the Rideau River, which flows north and is located approximately 110 m to the northeast, 150 m to the east, and 375 m to the south of the Site; the location of this water bodies is indicated in the Conceptual Site Model. The Site is relatively flat and generally at grade with the neighbouring properties. The Site was elevated slightly with respect to Robinson Avenue to the north of the Site.

The historical records, historical use and current use of adjacent properties located within 250 m of the Site were considered from an environmental perspective for the purposes of this report. There were no other Properties located outside of the Phase One Study Area (250 m radius) that were considered to have had the potential to have impacted the subject land.

Based on the historical research and known information of the general area of the Site, there were three on-Site potentially contaminating activities (PCAs) and 12 off-Site PCAs. Based on this investigation, there were three of the on-Site PCAs (current and historical heating oil storage tanks in or adjacent to each Site building, and historic and current automotive (motorcycle) repair garages operating at 36 and 40 Robinson Avenue, respectively) which are considered to have contributed to APECs at the Site. One of the off-Site PCAs (suspected petroleum hydrocarbon contamination originating from 85 Robinson Avenue, as observed and described by others in previous investigations at the Site) is considered to have contributed to an APEC at the Site.

The Phase One Study area is serviced by municipal water and sewer services and is in a non-potable area within the City of Ottawa. Electrical and natural gas services are available from private utility companies. Given the location of underground services on the Site and the locations of the PCAs at the Site and neighbouring properties, the presence of underground services are not considered to have the potential to have contributed to contaminant distribution on the subject land.



7. Conclusions

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

This Phase One ESA identified the presence of three Potentially Contaminating Activities (PCAs) which were suspected to have occurred historically or were present at the Site and were identified during the Phase One ESA. There was historical and current fuel storage in fixed tanks observed at the Site, specifically, the heating oil UST and AST formerly located adjacent to 44 Robinson Avenue), the heating oil AST currently present on the interior of 44 Robinson Avenue and the former heating oil ASTs formerly located adjacent to each of 36, 38 and 40 Robinson Avenue. Additionally, automotive (motorcycle) repair garages were present at 36 Robinson Avenue (historically) and at 40 Robinson Avenue (presently). These on-Site activities are considered PCAs under O. Reg 153/04.

There were 12 PCAs identified at surrounding properties in the Phase One Study Area as part of this assessment. One of the off-Site PCAs identified on neighbouring properties in the Phase One Study area is considered to represent an APEC for the Site. The adjacent property to the east of the Site, presently addressed as 85 Robinson Avenue, was identified as a probable source of on-Site petroleum hydrocarbon contamination, as observed and described by others in previous investigations at the Site. It is suspected that the source of contamination at the 85 Robinson Avenue property was the historic use and/or storage of fuels and/or chemicals; this adjacent property is considered to represent an APEC for east portion of the Site.

Following the completion of the Phase One ESA for the subject Property, it is our opinion that a Phase Two Environmental Site Assessment is required for the Site.

7.2 Record of Site Condition Based on Phase One Environmental Site Assessment Alone

Given that it is our opinion that a Phase Two Environmental Site Assessment is required for the Site, a record of site condition (RSC) cannot be filed for the Site based on this Phase One ESA alone.

It should be noted that the current land use of the Site is commercial and that the proposed future use of the Site will include residential land use. Any redevelopment of the Site under this proposed land use will involve changing land use to a less stringent use and will require a Record of Site Condition under Ontario Regulation 153/04.

7.3 QP Confirmation

The findings and conclusions of the Phase One Environmental Site Assessment are founded on the accuracy and reliability of the information obtained from all parties, unless contradicted by visual Site observations or other new written documentation that may be discovered through the development process.

The conclusions are presented based upon the readily available public information within the time frame of this mandate by trained professionals, following a prescribed and recognised assessment procedure.



This report is not intended to address, or provide comment on the presence, or absence of organic growth organisms commonly referred to as mould, through statements, inferences, or omissions.

The report is prepared for the use of the Client and his named representatives in making an informed financial and business decision regarding environmental liabilities that may be associated with the Site. The use of this report for any other purpose is at the Client's own risk.

The Client must understand that changing circumstances in the physical or regulatory environment, the administration and use of the Site, as well as changes in any substances stored, used, or disposed of at the Site, could significantly alter the conclusions and information contained in this report. Therefore, it is important that the Client periodically re-evaluates the Site and reviews developments or operations, which may potentially impact the Site.

The Qualified Person for this study is Mr. Luke Lopers, P. Eng. Mr. Lopers has been a Professional Engineer, registered in Ontario since 2012 and has been working on environmental site assessments since 2006 and has been a project manager and peer reviewer for many Phase One ESAs and Phase Two ESAs as well as previously filed RSCs.



8. References

2006. Canadian Standards Authority Z768-01 (R2006) - Phase I Environmental Site Assessment
- Ministry of Environment and Climate Change. Environmental Protection Act, Ontario Regulation 153/04, Records of Site Condition, Part XV.I of the Act.
1993. Ministry of Environment and Energy. Ontario Inventory of PCB Storage Sites, January 1993. Queen's Printer for Ontario
1994. Ministry of Environment. Waste Disposal Site Inventory, June 1991. Queen's Printer for Ontario
1989. Intera Technologies Ltd. Inventory of Coal Gasification Plant Waste Sites in Ontario, Volume 1, April 1987. Queen's Printer for Ontario
1989. Intera Technologies Ltd. Inventory of Coal Gasification Plant Waste Sites in Ontario, Volume 11, April 1987. Queen's Printer for Ontario
1988. Intera Technologies Ltd. Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario, Volume 1, November 1988
1988. Intera Technologies Ltd. Mapping and Assessment of Former Industrial Sites, City of Ottawa, July 1988
- City of Ottawa, geoOttawa website: <http://maps.ottawa.ca/geoottawa/>
- "Limited Environmental Characterization, 42 and 44 Robinson Avenue, Ottawa, Ontario" Reference No. E1378-04, prepared by John D. Paterson and Associates Limited (JDP), dated May 15, 1997.
- "Limited Environmental Site Remediation, 42 and 44 Robinson Avenue, Ottawa, Ontario" Reference No. E1378-04, prepared by John D. Paterson and Associates Limited, dated November 17, 1998.
- "Phase I Environmental Site Assessment, Lots 7, 10, 13, 16 and 19, Plan 190 Robinson Avenue, Ottawa, Ontario", prepared by Kollaard Associates Inc., dated September 2008.
- "Phase I Environmental Site Assessment Report Update, 36 Robinson Avenue, Ottawa, Ontario", prepared by Kollaard Associates Inc., dated November 2012.



All of Which is Respectfully Submitted,

GHD

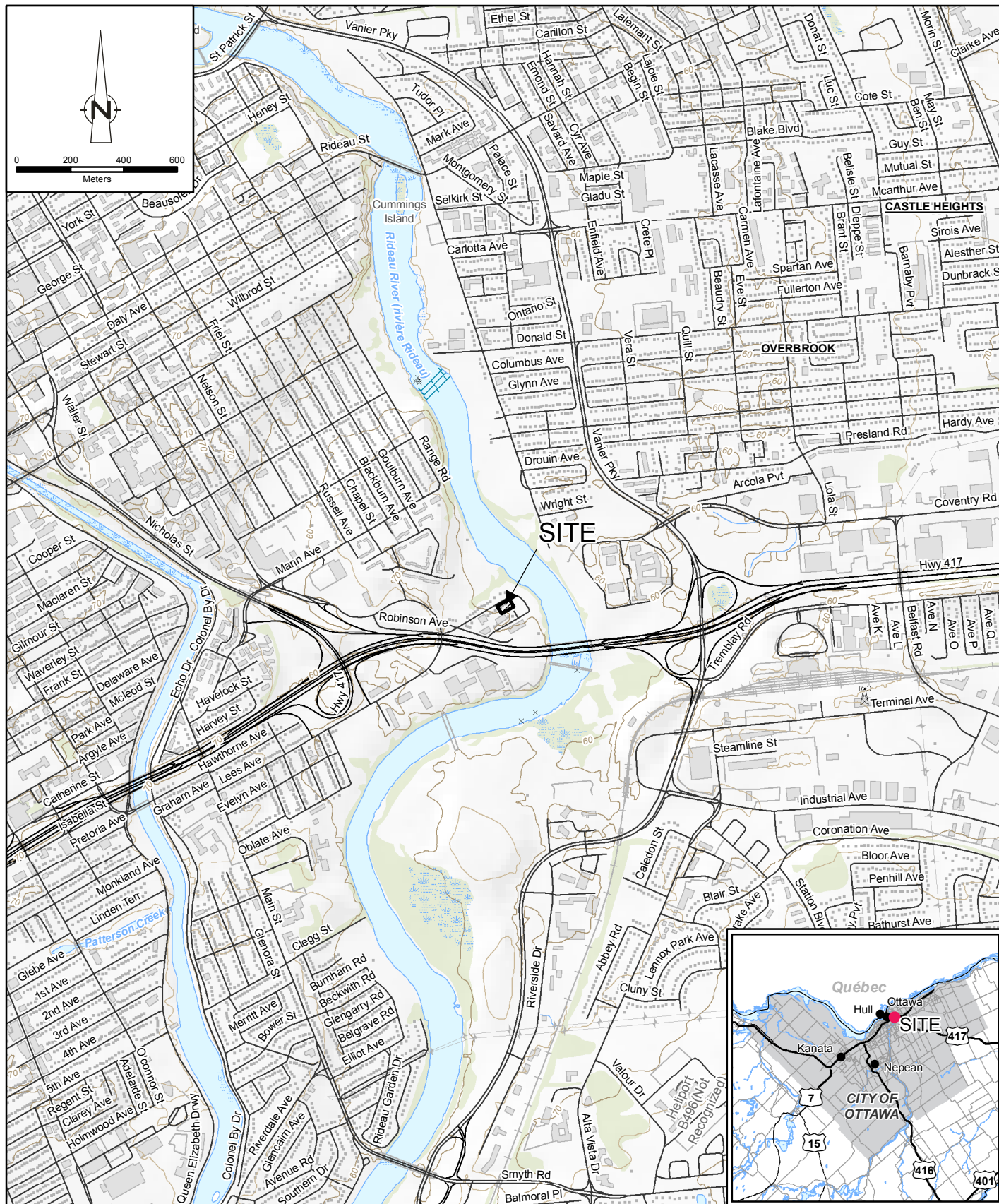
Thomas Neulieb

Thomas Neulieb, M.Sc.

Luke Lopers

Luke Lopers, P. Eng.





Source: MNR/NRVS, 2018. Produced by GHD under licence from Ontario Ministry of Natural Resources and Forestry, © Queen's Printer 2019.
 Coordinate System: NAD 1983 UTM Zone 18N



ROBINSON VILLAGE LPIV LIMITED PARTNERSHIP
 36 ROBINSON AVENUE, OTTAWA, ONTARIO
 PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

11186719-E1
 Jan 23, 2019

SITE LOCATION MAP

FIGURE 1

Potentially Contaminating Activities Interpreted As Areas of Potential Environmental Concern

- 1 – 36, 38, 40 and 44 Robinson Avenue – Historic storage of fuel in fixed tanks (ASTs and UST) (Previous Reports, Site visit, Interview)
- 2 – 36 Robinson Avenue - Former Automotive (motorcycle) Service Garage (City Directories, Site visit, Interview)
- 3 – 40 Robinson Avenue - Automotive (motorcycle) Service Garage (Site visit, Interview)
- 4 – 85 Robinson Avenue – Historic fuel and chemical storage and use (Previous Reports)

Other Potentially Contaminating Activities

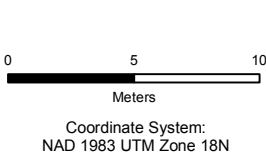
- 5 – 37-39 Robinson Avenue – Former Automotive Service Garage with associated UST (CD, FIP)
- 6 – 3 Hurdman Road – Former Railway Lines and Engine House (CD, FIP, AP)
- 7 – 29 Hurdman Road – Former Lumber Yard, Former Industrial Facility / Current Municipal Works Yard (CD, FIP, AP, Site Visit, Ecolog)
- 8 – 33 Hurdman Road - Former Gasoline Service Station (FIP)
- 9 – 23 Hurdman Road (Formerly 25 Hurdman Road and 181 Lees Avenue) - Former Automotive Service Garage and Former Autobody (CD, FIP, Ecolog)
- 10 – 28 Robinson Avenue - Heating Oil Spill/Fuel Storage in Fixed Tanks (Ecolog)
- 11 – 18 Robinson Avenue - Former Machine Shop (FIP, CD)
- 12 – Former Canadian Pacific Railway (CD, FIP, AP)
- 13 – Former Grand Trunk Railway (CD, FIP, AP)
- 14 – 200 Lees Avenue – Former Landfill (Environmental Databases)
- 15 – 175 Lees Avenue – Former Coal Gasification Plant (CD, FIP, AP)
- 16 – 170 Lees Avenue – Former Coal Tar Distillation Plant (CD, FIP, AP)



Legend

- Door
- Bay Door
- In-Ground Hoist Piston Location
- Potentially Contaminating Activities Interpreted As Areas of Potential (APEC)
- Other Potentially Contaminating Activities (PCA)
- Approximate Location of Former AST
- Approximate Location of Former UST/AST
- Current AST
- Approx. Site Boundary

Source: Microsoft product screen shot(s) reprinted with permission from Microsoft Corporation, Date Unknown



ROBINSON VILLAGE LPV LIMITED PARTNERSHIP
36 ROBINSON AVENUE, OTTAWA, ONTARIO
PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

SITE PLAN

11186719-E1
Jan 24, 2019

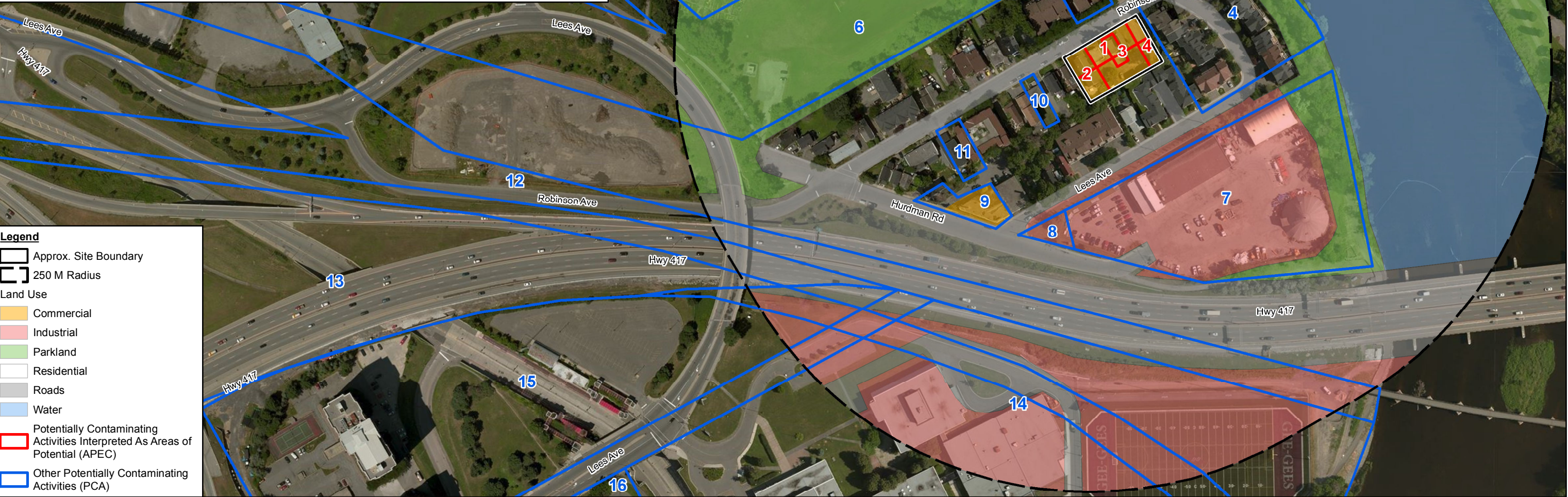
FIGURE 2

Potentially Contaminating Activities Interpreted As Areas of Potential Environmental Concern

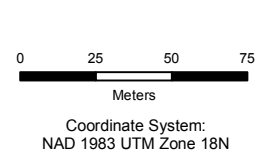
- 1 – 36, 38, 40 and 44 Robinson Avenue – Historic storage of fuel in fixed tanks (ASTs and UST) (Previous Reports, Site visit, Interview)
- 2 – 36 Robinson Avenue - Former Automotive (motorcycle) Service Garage (City Directories, Site visit, Interview)
- 3 – 40 Robinson Avenue - Automotive (motorcycle) Service Garage (Site visit, Interview)
- 4 – 85 Robinson Avenue – Historic fuel and chemical storage and use (Previous Reports)

Other Potentially Contaminating Activities

- 5 – 37-39 Robinson Avenue – Former Automotive Service Garage with associated UST (CD, FIP)
- 6 – 3 Hurdman Road – Former Railway Lines and Engine House (CD, FIP, AP)
- 7 – 29 Hurdman Road – Former Lumber Yard, Former Industrial Facility / Current Municipal Works Yard (CD, FIP, AP, Site Visit, Ecology)
- 8 – 33 Hurdman Road - Former Gasoline Service Station (FIP)
- 9 – 23 Hurdman Road (Formerly 25 Hurdman Road and 181 Lees Avenue) - Former Automotive Service Garage and Former Autobody (CD, FIP, Ecology)
- 10 – 28 Robinson Avenue - Heating Oil Spill/Fuel Storage in Fixed Tanks (Ecology)
- 11 – 18 Robinson Avenue - Former Machine Shop (FIP, CD)
- 12 – Former Canadian Pacific Railway (CD, FIP, AP)
- 13 – Former Grand Trunk Railway (CD, FIP, AP)
- 14 – 200 Lees Avenue – Former Landfill (Environmental Databases)
- 15 – 175 Lees Avenue – Former Coal Gasification Plant (CD, FIP, AP)
- 16 – 170 Lees Avenue – Former Coal Tar Distillation Plant (CD, FIP, AP)



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ROBINSON VILLAGE LPV LIMITED PARTNERSHIP
36 ROBINSON AVENUE, OTTAWA, ONTARIO
PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

SURROUNDING LAND USE PLAN

11186719-E1
Jan 24, 2019

FIGURE 3

Appendices

Appendix A

Chain of Title



READ Abstracts Limited

331 Cooper Street, Suite 300, Ottawa, Ontario K2P 0A4

Email: search@readsearch.com

Tel.: 613-236-0664

Fax: 613-236-3677

ENVIRONMENTAL SEARCH

GHD

Attn: Thomas Neulieb

BRIEF DESCRIPTION OF LAND:

36 Robinson Ave., Ottawa
Lot 7, 10, 13, 16, and 19, Plan 190

PIN: 04207-0369

LAST REGISTERED OWNER: COURVILLE, Gary

CHAIN OF TITLE:

Plan 190 registered Sep 14, 1899
By T. W. McDermott and R. P. Robinson

Lot 7

Deed OE848 registered Sep 9, 1902
From R. P. Robinson to T. W. McDermott

Deed OE963 registered Apr 14, 1904
From T. W. McDermott to Mary McDermott

Deed OE971 registered May 6, 1904
From Mary McDermott and T. W. McDermott to James Harvey

Deed OE1046 registered Jul 22, 1905
From James Harvey to Mary McDermott

Deed OE1174 registered Jul 7, 1906
From Mary McDermott and T. W. McDermott to James Copping

Deed OE1244 registered Jan 19, 1907
From James Copping to Herbert Percival

Deed OE1431 registered May 5, 1908
From Herbert Percival to James E. Wilson

Deed 101458 registered Jan 11, 1911
From James E. Wilson to Hamnett Hill

Deed 144820 registered Feb 25, 1919
From Hamnett Hill to Mary Fraser

Deed 144822 registered Feb 25, 1919
From Mary Fraser to William Hasty

Deed 162086 registered Mar 11, 1922
From William Hasty to Chauncey Kirby

Deed 163831 registered Jun 9, 1922
From Chauncey Kirby to William Pinard

Deed 181816 registered Dec 15, 1925
From William Pinard to Ida McNeill

Deed 205702 registered Oct 22, 1931
From Ida McNeill to William Pinard

Deed 206565 registered Jan 30, 1932
From William Pinard to Alphonse Dumais

Deed 264094 registered Mar 31, 1947
From Alphonse Dumais to Romeo Dumais

Deed 317033 registered Dec 8, 1953
From Joseph Romeo Dumais to John Tolmie

Deed 321165 registered May 10, 1954
From John Tolmie to James Franceschini

Deed 359929 registered Jun 6, 1957
From James Franceschini to Mount Royal Paving & Supplies Ltd.

Deed 546093 registered Jul 31, 1968
From Franeon Limited to Alan O'Hara
(Mount Royal Paving & Supplies Ltd. changed its name to Franeon Limited)

Deed 559275 registered May 30, 1969
From Alan O'Hara to Vorcan Tool Company Limited

Deed 620817 registered Oct 27, 1972
From Vorcan Tool Company Limited to Shenkman Corporation Ltd.

Deed NS138839 registered Dec 16m, 1981
From Shenkman Corporation Ltd. to Gary Courville

Lot 10

Deed OE848 registered Sep 9, 1902
From R. P. Robinson to T. W. McDermott

Deed OE963 registered Apr 14, 1904
From T. W. McDermott to Mary McDermott

Deed OE971 registered May 6, 1904
From Mary McDermott and T. W. McDermott to James Harvey

Deed OE1046 registered Jul 22, 1905
From James Harvey to Mary McDermott

Deed OE1174 registered Jul 7, 1906
From Mary McDermott and T. W. McDermott to James Copping

Deed OE1244 registered Jan 19, 1907
From James Copping to Herbert Percival

Deed OE1431 registered May 5, 1908
From Herbert Percival to James E. Wilson

Deed 101458 registered Jan 11, 1911
From James E. Wilson to Hamnett Hill

Deed 144820 registered Feb 25, 1919
From Hamnett Hill to Mary Fraser

Deed 144822 registered Feb 25, 1919
From Mary Fraser to William Hasty

Deed 162086 registered Mar 11, 1922
From William Hasty to Chauncey Kirby

Deed 163831 registered Jun 9, 1922
From Chauncey Kirby to William Pinard

Deed 181816 registered Dec 15, 1925
From William Pinard to Ida McNeill

Deed 205702 registered Oct 22, 1931
From Ida McNeill to William Pinard

Deed 205703 registered Oct 22, 1931
From William Pinard to Jules Coucke

Deed 229391 registered Oct 11, 1939
From estate of Jules Coucke to Moise Coucke

Deed 242957 registered Jul 21, 1943
From Moise Coucke to Syndey Pinard

Deed 258816 registered May 23, 1946
From Sydney Pinard to Harold Coulin

Deed 277405 registered May 27, 1949
From Harold Coulin to Gerard Poitras

Deed 565961 registered Oct 3, 1969
From Gerard Poitras to Vorcan Tool Company Limited

Deed 620817 registered Oct 27, 1972
From Vorcan Tool Company Limited to Shenkman Corporation Ltd.

Deed NS138839 registered Dec 16m,1981
From Shenkman Corporation Ltd. to Gary Courville

Lot 13 and 16

Deed OE926 registered Oct 6, 1903
From T. W. McDermott to R. P. Robinson

Tax Deed 204950 registered Aug 31, 1931
To The Corporation of the City of Ottawa

Deed 262507 registered Dec 1m 1946
From The Corporation of the City of Ottawa to Marion Hayley

Deed 509326 registered Mar 19, 1966
From Marion and Harvey Hayley to Gerard and Joyce Poitras

Deed 565961 registered Oct 3, 1969
From Gerard and Joyce Poitras to Vorcan Tool Company Limited

Deed 620817 registered Oct 27, 1972
From Vorcan Tool Company Limited to Shenkman Corporation Ltd.

Deed NS138839 registered Dec 16m,1981
From Shenkman Corporation Ltd. to Gary Courville

Lot 19

Deed OE848 registered Sep 9, 1902
From R. P. Robinson to T. W. McDermott

Deed OE963 registered Apr 14, 1904
From T. W. McDermott to Mary McDermott

Deed OE971 registered May 6, 1904
From Mary McDermott and T. W. McDermott to James Harvey

Deed OE1046 registered Jul 22, 1905
From James Harvey to Mary McDermott

Deed OE1174 registered Jul 7, 1906
From Mary McDermott and T. W. McDermott to James Copping

Deed OE1244 registered Jan 19, 1907
From James Copping to Herbert Percival

Deed 149613 registered Feb 5, 1920
From Herbert Percival to James Charles

Tax Deed 190868 registered Jan 6, 1928
To The Corporation of the City of Ottawa

Deed 280961 registered Dec 6, 1949
From The Corporation of the City of Ottawa to William Hayley

Deed 451340 registered Oct 22, 1962
From William Hayley to Harry Hayley & Sons Ltd.

Deed 510037 registered May 19, 1966
From Donald F. McKechnie, trustee in bankruptcy of Harry Hayley & Sons Ltd. to Gerard and Joyce Poitras

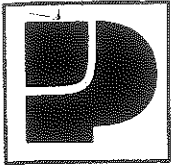
Deed 565961 registered Oct 3, 1969
From Gerard and Joyce Poitras to Vorcan Tool Company Limited

Deed 620817 registered Oct 27, 1972
From Vorcan Tool Company Limited to Shenkman Corporation Ltd.

Deed NS138839 registered Dec 16m, 1981
From Shenkman Corporation Ltd. to Gary Courville

Appendix B

Previous Reports



JOHN D. PATERSON AND ASSOCIATES LIMITED

Ottawa

Consulting Engineers

North Bay

28 Concourse Gate, Unit 1, Nepean, Ontario K2E 7T7 Tel: (613) 226-7381 Fax: (613) 226-6344

May 15, 1997

File: E1378-04.LET

G & M Homes

36 Antares Drive

Suite 200

Nepean, Ontario

K2E 7W5

Attention: **Mr. Yvon Lavallee**

Subject: **Limited Environmental Site Characterization
42 and 44 Robinson Avenue
Ottawa, Ontario**

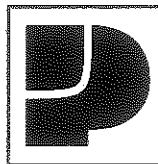
Dear Sir:

Further to your request and authorization, this firm was commissioned to carry out a limited environmental site characterization of the aforementioned property which is located adjacent to the former Capital Beef site.

Background

An environmental site remediation program was initiated for the former Capital Beef site on December 9, 1996 and a report was issued on January 24, 1997 (Report E1378-1). During the remediation program, solvent based contaminants were encountered within the former Capital Beef site and were traced to the subject site along its eastern boundary. Furthermore, the contamination encountered at this location was not the same as the hydrocarbon contamination encountered elsewhere on the former Capital Beef site.

To prevent the migration of any potential hydrocarbon contamination from off-site sources, a membrane barrier was installed as close to the property line as possible. Refer to the Test Hole Location Plan E1378-2 which is attached to this report for the location of the membrane barrier. The barrier was installed as a temporary measure to prevent further migration of the contaminant until an investigation could be undertaken to determine the off-site source.



Field Program

A field program to determine the source of contamination was initiated on December 24, 1996 and again on April 16, 1997 and consisted of nine (9) test pits, TP-6 to TP-14. The location of the test pits were randomly selected by John D. Paterson and Associates and are presented in Drawing E1378-2 - Test Hole Location Plan which is attached for your records. The field program was limited due to the presence of three automobiles which were preventing the investigation of the south east corner of the property.

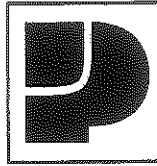
All vehicles were displaced or removed from the site on May 2, 1997 and an additional three (3) test pits (TP-15 to TP-17) were excavated.

Results of the Investigation

Hydrocarbon contamination was encountered in Test Pit 14 adjacent to the aboveground fuel storage tank located at 44 Robinson Avenue. During the excavation of this test pit, an underground fuel tank was encountered below the aboveground fuel tank. The contaminated soil encountered at this location was considered to be limited and from the heating oil source.

Test Pit 6 was the only other test hole with signs of hydrocarbon contamination. The contamination encountered in this test hole was similar to the type of hydrocarbon contamination encountered on the former Capital Beef site. Sample G56 from this test pit was submitted for analytical testing and the test results are presented as follows:

Parameter	Results G56 TP6	MOEE CRITERIA Table B Residential/Parkland (µg/g)
Benzene	nd	5.3
Toluene	nd	34
Ethylbenzene	nd	290
Xylenes	nd	34
TPH	50	1000



The remaining test pits had no significant visual or olfactory signs of hydrocarbon contamination. However, a fill layer was encountered along most of the site and was more pronounced along the eastern half of the property. Various types of debris were found within this fill layer consisting of metal, auto parts, tires, construction materials and other miscellaneous materials from inert refuse sources.

A perched groundwater condition exists within the fill layer which is currently retained by the temporary membrane barrier. Rapid water infiltration was observed within the test holes along the eastern boundary of the site. The water infiltration was less significant in test holes located further west. No significant signs of groundwater contamination were encountered in the test holes along the eastern boundary.

Conclusions

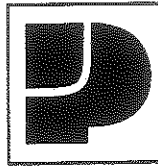
The heating oil contamination from the underground fuel storage tank located next to the dwelling on 44 Robinson Avenue is considered limited and is not considered to be the source of the contamination found on the former Capital Beef site near the eastern border of the subject site. It is suspected that the underground tank was initially used to store the heating oil until it leaked and was replaced with the aboveground tank. The underground tank was abandoned and left in place.

The pockets of contamination along the boundary of the former Capital Beef site are considered to be very limited and, with the existing membrane barrier, do not pose any significant environmental concerns or adverse effects to both human health and the natural environment. The analytical test results from a sample recovered from TP 6 were below the MOEE guidelines for TPH and BTEX. In our opinion, the source of the hydrocarbon contamination found on the former Capital Beef site was located within the fill material previously dumped along the eastern border of the subject property. It is suspected that dumping of hydrocarbons took place along the eastern boundary of the subject site through the years along with placement of miscellaneous fills and refuse.

Recommendations

At the present time, two options are available for this site. The first would consist of removing the existing membrane barrier and excavating the minor pockets of contaminated soil and properly disposing of the material off-site at a local registered landfill site. The trees along the boundary of the subject site would be removed since the root system will be affected by the excavation operations.

Mr. Yvon Lavallee
Page 4
File: E1378-04.LET



The second option is to leave the minor pockets of contamination in place since the existing membrane barrier will prevent significant migration of the weathered contamination which currently meets MOEE guidelines. Leaving the membrane in place will also resist other possible sources of contamination (underground fuel storage tank) from impacting the former Capital Beef site.

Therefore, it is our recommendation that the second option be considered since no significant concerns are expected. Furthermore, if migration does occur beyond the membrane barrier, it will be located within the groundwater which is expected to be below the proposed basement floor slab elevation.

We reviewed the information provided by the City of Ottawa. This letter will address the environmental concerns noted in Items 1.18, 1.20, 1.21 and 1.22.

We trust that this is to your satisfaction.

Sincerely,

JOHN D. PATERSON AND ASSOCIATES LIMITED

**ORIGINAL SIGNED BY:
CARLOS P. DA SILVA**

Carlos P. Da Silva, P. Eng.

Paracel Labs

300-2319 St. Laurent Blvd., Ottawa, Ontario, Canada K1G 4K6

Date: Monday, November 16, 1998

Time: 11:34 AM

To: Mark D'Arcy

Company: J.D. Paterson and Associates

Fax Phone #: 226-6344

CC:

From: Paracel Laboratories Ltd.

Subject: Certification of Analysis

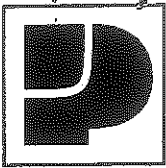
Total # of Pages (including cover): 2

Memo: Please find attached your "Certification of Analysis".

If you have any questions, please contact Mr. Jeff Craig at 613-731-9577.

Thank you for using Paracel!

If all pages were not received, please call back immediately:



JOHN D. PATERSON AND ASSOCIATES LIMITED

Ottawa

Consulting Engineers

North Bay

28 Concourse Gate, Unit 1, Nepean, Ontario K2E 7T7 Tel: (613) 226-7381 Fax: (613) 226-6344

November 17, 1998

File: E1378-06.LET

G & M Homes
36 Antares Drive
Suite 200
Nepean, Ontario
K2E 7W5

Attention: **Mr. Yvon Lavallee**

Subject: **Limited Environmental Site Remediation**
42 and 44 Robinson Avenue
Ottawa, Ontario

Dear Mr. Lavallee,

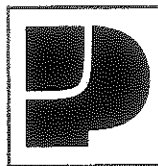
At your request and authorization, this firm carried out a Limited Environmental Site Remediation at 42 and 44 Robinson Avenue, in the City of Ottawa, Ontario. The results of this investigation are condensed into the following report.

1.0 BACKGROUND

This report was done in conjunction with a previous Limited Environmental Site Characterization Report, E1378-05.LET, dated June 16, 1997. Prior to this investigation a site remediation program was initiated for the adjacent property; the former Capital Beef site on December 9, 1996 and a report was issued on January 24, 1997 (Report E1378-1).

2.0 PURPOSE OF THE INVESTIGATION

The intent of this limited site investigation was to determine if the subsurface soil had been impacted from the aboveground and former underground fuel storage tanks. The aboveground storage tank was still in use and was removed in order to excavate the subsurface soil. The underground storage tank had not been in use for several years and was removed at the time of this investigation.



3.0 SUBSURFACE INVESTIGATION

The fieldwork program was carried out on November 9, 1998, and involved the excavation of impacted soil in the vicinity of the aboveground and former underground fuel storage tanks. The excavated soil was stockpiled on site and a composite soil sample was taken.

Confirmatory samples of the excavation (including each wall of the excavation and the base) as well as a representative sample of the excavated, stockpiled soil were taken, sealed airtight in plastic bags or 250 mL glass jars, and were subsequently transported to our laboratory for further analyses. All samples were classified based on their textural and olfactory attributes.

The locations at which the samples were recovered from the excavation are numbered 1 through 10 on Drawing E1378-5 appended to this letter.

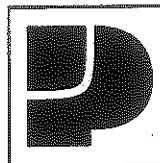
All soil samples recovered as part of this program will be stored in the laboratory for a period of three months after issuance of this report. All samples will then be discarded unless this firm is otherwise directed.

4.0 SUBSURFACE CONDITIONS

Based on visual and olfactory observations made at the time of sampling, hydrocarbon contaminated was encountered within the excavated soil. Samples were taken on each wall and the base of the excavation and were all screened by means of a combustible vapour survey.

The final depth of the excavation base was 2.5 metres below existing grade. The excavation was limited to the north west due to mature trees and was also limited to the south and to the west due to a slab-on-grade, footings of the building and one mature tree.

The underground fuel storage tank that was removed was full of fuel and was estimated to hold approximately 1500 L. The tank was visually inspected for signs of corrosion and deterioration. At the base of the tank at the north end, a 5 cm hole was observed.



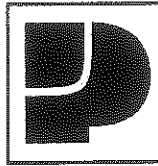
5.0 COMBUSTIBLE VAPOUR SURVEY

All soil samples from the excavation were subjected to a combustible vapour head space screening analysis. The results of the combustible vapour analysis survey are listed in Table 1.

The parts per million (ppm) scale is used to measure concentrations of hydrocarbon vapours that are too low to register on the Lower Explosive Limit (LEL) scale.

The combustible vapour readings were found to range from 40 ppm to 360 ppm; which were considered to be moderate readings with respect to diesel fuel products.

Table 1 Combustible Vapour Survey Test		
Excavation	Sample #	Peak Reading (ppm)
Excavation	G1	90
	G2	280
	G3	78
	G4	76
	G5	280
	G6	360
	G7	76
	G8	60
	G9	40
	G10	98
Note: Samples that are shaded were submitted for analytical testing.		



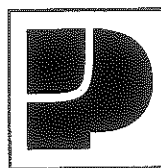
6.0 ANALYTICAL TEST RESULTS

The results of the combustible vapour survey showed that there were confirmatory samples with moderate readings. In order to determine the level of the contamination, a total of three (3) confirmatory soil samples from the excavation were submitted to Paracel Laboratories for Benzene, Toluene, Ethylbenzene, Xylenes (BTEX) and Total Petroleum Hydrocarbons (TPH) analyses. One sample from the stockpiled, excavated soil was submitted for Regulation 347 analyses (which includes TPH and flashpoint). The test results are presented in Table 2 and are appended to this letter.

Table 2 Analytical Test Results						
Parameter	MDL (ppm)	Confirmatory Samples (ppm)			Excavated Soil Sample (ppm)	MOE Table B Residential Use - Soil Remediation Criteria (ppm)
		EXC G6	EXC G8	EXC G10	NOV 9'98	
Benzene	0.04	Nd	nd	nd	-	5.3
Ethylbenzene	0.04	0.08	Nd	nd	-	290
Toluene	0.04	nd	nd	nd	-	34
Xylenes	0.04	0.12	nd	nd	-	34
GRO	10	50	nd	nd	420	-
DRO	10	2,100	50	50	13,000	-
TPH	10	2,150	50	50	13,420	1000
Flashpoint	deg. C	-	-	-	>70	-
Notes: <ul style="list-style-type: none"> Numbers shaded are above MOE clean-up criteria. GRO = gasoline range organics, DRO = diesel range organics TPH = GRO + DRO. nd - Not Detected. 						

The sample EXC G6 exceeded the MOE clean-up criteria for TPH; however, the excavation was restricted on the south end due to the slab-on-grade and a mature tree. The stockpiled, excavated composite sample also exceeded the MOE clean-up criteria and should be disposed to a registered landfill site.

Mr. Yvon Lavallee
Page 5
File: E1378-06.LET



Selected Remediation Criteria

The soil remediation criteria for the subject site has been obtained from Table B of the document entitled "Guideline For Use At Contaminated Sites in Ontario", prepared by Ontario Ministry of the Environment, February 1997.

The MOE Cleanup Criteria is based on the following considerations:

- ▶ The petroleum hydrocarbons resemble a middle distillate such as diesel fuel.
- ▶ Surface soil and groundwater conditions.
- ▶ Non potable drinking water source.
- ▶ Residential land use.

7.0 Removal of Impacted Soil

G & M Homes have been made aware of the analytical test results. It is our understanding that the soil will be disposed at Humeault Waste Landfill, in Nepean Ontario. It is estimated that approximately 75 cubic metres will be disposed of at this landfill site. Impacted soil remained underneath the current building to the south and west of the excavated area. This soil was not removed due to the in-situ footings and foundations of the building which cannot be disturbed.

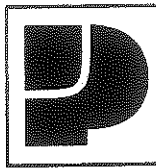
8.0 ASSESSMENT AND RECOMMENDATIONS

Assessment

A Limited Environmental Site Remediation was carried out at the subject site, located at 42 and 44 Robinson Avenue in Ottawa, Ontario. The purpose of the investigation was to assess the impact on the subsurface soil by a former underground fuel storage tank and an aboveground fuel storage tank.

The investigation involved one excavation as identified on Drawing E1378-4 appended to this letter. Based on field observations, both textural and olfactory attributes of the soil samples recovered, hydrocarbon contamination was encountered and therefore subsequent samples were submitted for analytical testing.

Mr. Yvon Lavallee
Page 6
File: E1378-06.LET



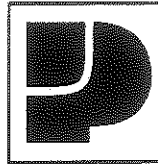
The results from the analytical testing showed that one sample from the south wall of the excavation exceeded the MOE guideline clean-up criteria for total petroleum hydrocarbons (TPH). This area of the excavation was restricted due to the presence of a slab-on-grade. The composite soil sample from the excavated, stockpiled soil was also above the MOE clean-up criteria and is to be disposed of at Humeault Waste Landfill site.

Recommendations

Based on the findings of the limited environmental site investigation, it is our opinion that the soil at this site had been significantly impacted by on-site contaminant sources, and does not require further investigative works and remediation.

The contamination encountered has been cleaned up as much as possible without disturbing the soil underlying the building or without damaging the mature trees. It is recommended that if the buildings are to be torn down in the future, that the remaining impacted soil on the east side of the building be removed at that time.

Mr. Yvon Lavallee
Page 7
File: E1378-06.LET



9.0 CLOSURE

An environmental evaluation of this nature represents a limited area of the site, and is only applicable to the time of the program. The conclusions are based on information gathered from a limited field inspection program. The conditions of the site are based on information gathered at specific locations and can only be extrapolated to an undefined limited area around these locations.

Should any conditions be encountered at the subject site that differ from our findings, we request that we be notified immediately in order to allow for a reassessment.

Sincerely,

JOHN D. PATERSON AND ASSOCIATES LIMITED

Karen Crowell, EIT

ORIGINAL SIGNED BY:
CARLOS P. DA SILVA

Carlos P. Da Silva, P.Eng.

Report Distribution:

Mr. Yvon Lavallee, G & M Homes (3 copies)
John D. Paterson and Associates Limited (1 copy)

Paracel Laboratories Ltd.

Date: 11/16/98

Certificate of Analysis

Order # D4343

Client: J.D. Paterson and Associates

Client Ref: 3401

Project: E1378

Note - DL is the lowest detection limit normally attainable by the laboratory. If the sample is reported less than a value greater than the DL, the sample required dilution prior to analysis

Sample ID: EXC G6			Matrix: Soil
Paracel ID: D4343.1			Date Sampled: 11/09/98
Parameter	units	DL	Result
Benzene	ug/g	0.040	< 0.040
Ethylbenzene	ug/g	0.040	0.080
Toluene	ug/g	0.040	< 0.040
m/p-Xylene	ug/g	0.040	0.12
o-Xylene	ug/g	0.040	< 0.040
Toluene-D8 (surrogate)	percent	n/a	91%
Petroleum Hydrocarbons (gasoline)	ug/g	10	50
Petroleum Hydrocarbons (diesel)	ug/g	10	2,100

Sample ID: EXC G8			Matrix: Soil
Paracel ID: D4343.2			Date Sampled: 11/09/98
Parameter	units	DL	Result
Benzene	ug/g	0.040	< 0.040
Ethylbenzene	ug/g	0.040	< 0.040
Toluene	ug/g	0.040	< 0.040
m/p-Xylene	ug/g	0.040	< 0.040
o-Xylene	ug/g	0.040	< 0.040
Toluene-D8 (surrogate)	percent	n/a	98%
Petroleum Hydrocarbons (gasoline)	ug/g	10	< 10
Petroleum Hydrocarbons (diesel)	ug/g	10	50

Sample ID: EXC G10			Matrix: Soil
Paracel ID: D4343.3			Date Sampled: 11/09/98
Parameter	units	DL	Result
Benzene	ug/g	0.040	< 0.040
Ethylbenzene	ug/g	0.040	< 0.040
Toluene	ug/g	0.040	< 0.040
m/p-Xylene	ug/g	0.040	< 0.040
o-Xylene	ug/g	0.040	< 0.040
Toluene-D8 (surrogate)	percent	n/a	91%
Petroleum Hydrocarbons (gasoline)	ug/g	10	< 10
Petroleum Hydrocarbons (diesel)	ug/g	10	50

Data - 1

Paracel Laboratories Ltd.

Date: 11/16/98

Certificate of Analysis

Order # D4332

Client: **J.D. Paterson and Associates**

Client Ref: 3399

Project: E1378

Note - DL is the lowest detection limit normally attainable by the laboratory. If the sample is reported less than a value greater than the DL, the sample required dilution prior to analysis

Sample ID: E1378-Nov 9/98				Matrix: Soil
Paracel ID: D4332.1		Date Sampled: 11/09/98		
Parameter	units	DL	Result	
Petroleum Hydrocarbons (gasoline)	ug/g	10	420	
Petroleum Hydrocarbons (diesel)	ug/g	10	13,000	
Flashpoint	deg. C	n/a	>70	

Data - 1

Paracel Laboratories Ltd.

Order #D4343

Certificate of Analysis

J.D. Paterson and Associates

28 Concourse Gate, Unit 1

Nepean, Ontario K2E 7T7

Attn: Mr. Mark D'Arcy

Voice: 226-7381

Fax: 226-6344

Clients Ref: 3401

Project: E1378

Reference:

Report Date: 11/16/98

Order Date: 11/10/98

Sample Date: 11/09/98

This Certificate of Analysis contains analytical data for the following samples:

Paracel ID

D4343.1

D4343.2

D4343.3

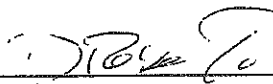
Client ID

EXC G6

EXC G8

EXC G10

Approved By: _____



Dale Robertson, B.Sc.

Paracel Laboratories Ltd.
Certificate of Analysis

Date: 11/16/98

Order # D4343

Client: J.D. Paterson and Associates

Client Ref: 3401

Project: E1378

Note - DL is the lowest detection limit normally attainable by the laboratory. If the sample is reported less than a value greater than the DL, the sample required dilution prior to analysis

Sample ID: EXC G6

Matrix: Soil

Paracel ID: D4343.1

Date Sampled: 11/09/98

Parameter	units	DL	Result
Benzene	ug/g	0.040	< 0.040
Ethylbenzene	ug/g	0.040	0.080
Toluene	ug/g	0.040	< 0.040
m/p-Xylene	ug/g	0.040	0.12
o-Xylene	ug/g	0.040	< 0.040
Toluene-D8 (surrogate)	percent	n/a	91%
Petroleum Hydrocarbons (gasoline)	ug/g	10	50
Petroleum Hydrocarbons (diesel)	ug/g	10	2,100

Sample ID: EXC G8

Matrix: Soil

Paracel ID: D4343.2

Date Sampled: 11/09/98

Parameter	units	DL	Result
Benzene	ug/g	0.040	< 0.040
Ethylbenzene	ug/g	0.040	< 0.040
Toluene	ug/g	0.040	< 0.040
m/p-Xylene	ug/g	0.040	< 0.040
o-Xylene	ug/g	0.040	< 0.040
Toluene-D8 (surrogate)	percent	n/a	98%
Petroleum Hydrocarbons (gasoline)	ug/g	10	< 10
Petroleum Hydrocarbons (diesel)	ug/g	10	50

Sample ID: EXC G10

Matrix: Soil

Paracel ID: D4343.3

Date Sampled: 11/09/98

Parameter	units	DL	Result
Benzene	ug/g	0.040	< 0.040
Ethylbenzene	ug/g	0.040	< 0.040
Toluene	ug/g	0.040	< 0.040
m/p-Xylene	ug/g	0.040	< 0.040
o-Xylene	ug/g	0.040	< 0.040
Toluene-D8 (surrogate)	percent	n/a	91%
Petroleum Hydrocarbons (gasoline)	ug/g	10	< 10
Petroleum Hydrocarbons (diesel)	ug/g	10	50

Paracel Laboratories Ltd.
QA/QC Report - MATRIX BLANK

Date: 11/16/98

Note - The following portion of this report includes Matrix Blank data relating to all of the samples included in the Certificate of Analysis.

- More than one Matrix Blank for a parameter usually indicates that the samples were analyzed under more than one QC group. The Run ID can be used to relate a Matrix Blank to particular samples.

Blank QC Results - Matrix: Soil

Parameter	Method	DL	Measured
Benzene	SW-846 Method 8260/3550	0.040 ug/g	< 0.040
Ethylbenzene	SW-846 Method 8260/3550	0.040 ug/g	< 0.040
Toluene	SW-846 Method 8260/3550	0.040 ug/g	< 0.040
m/p-Xylene	SW-846 Method 8260/3550	0.040 ug/g	< 0.040
o-Xylene	SW-846 Method 8260/3550	0.040 ug/g	< 0.040
Toluene-D8 (surrogate)	SW-846 Method 8260/3550	n/a	87%
Petroleum Hydrocarbons - gasoline	SW-846 8015/3500A (GC-FID)	10 ug/g	< 10
Petroleum Hydrocarbons - diesel	SW-846 8015/3500A (GC-FID)	10 ug/g	< 10

QA/QC Report - REFERENCE STANDARD

Note - The following portion of this report includes Reference Standard data relating to all of the samples included in the Certificate of Analysis.

- More than one Reference Standard for a parameter usually indicates that the samples were analyzed under more than one QC group.

Reference Standard Results - Matrix: Soil

Parameter	Expected	LLA - ULA	Recovery
Benzene	2.5 ug/g	50% - 150%	91%
Ethylbenzene	2.5 ug/g	37% - 162%	94%
Toluene	2.5 ug/g	50% - 150%	95%
m/p-Xylene	5.0 ug/g	50% - 150%	90%
o-Xylene	2.5 ug/g	70% - 130%	90%
Toluene-D8 (surrogate)	100%	50% - 150%	104%
Petroleum Hydrocarbons - gasoline	100 ug/g	49% - 141%	107%
Petroleum Hydrocarbons - diesel	300 ug/g	49% - 141%	110%

Paracel Laboratories Ltd.
QA/QC Report - MATRIX DUPLICATE

Date: 11/16/98

Note - The following portion of this report includes Matrix Duplicate data relating to all of the samples included in the Certificate of Analysis.
 - More that one Matrix Duplicate for a parameter parameter usually indicates that the samples were analyzed under more that one QC group.

Duplicate QA/QC Results - Matrix: Soil

Parameter	units	Detection Limit	Sample Result	Duplicate Result
Benzene	ug/g	0.040	< 0.040	< 0.040
Ethylbenzene	ug/g	0.040	< 0.040	< 0.040
Toluene	ug/g	0.040	< 0.040	< 0.040
m/p-Xylene	ug/g	0.040	< 0.040	< 0.040
o-Xylene	ug/g	0.040	< 0.040	< 0.040
Toluene-D8 (surrogate)	percent	n/a	104%	106%
Petroleum Hydrocarbons - gasoline	ug/g	10	< 10	< 10
Petroleum Hydrocarbons - gasoline	ug/g	10	30	20
Petroleum Hydrocarbons - diesel	ug/g	10	< 10	< 10
Petroleum Hydrocarbons - diesel	ug/g	10	1,700	1,400

Paracel Laboratories Ltd.
QA/QC Report - MATRIX SPIKE

Date: 11/16/98

Note - The following portion of this report includes Matrix Spike data relating to all of the samples included in the Certificate of Analysis.

- More than one Matrix Spike result for a parameter usually indicates that the samples were analyzed under more than one QC group.

Spike QAQC Results - Matrix: Soil

Parameter	Expected	Measured	ULA - LLA	Meas./Expt.
Benzene	3.8 ug/g	3.9	50% - 150%	104%
Ethylbenzene	3.8 ug/g	3.8	37% - 162%	102%
Toluene	3.8 ug/g	3.9	50% - 150%	104%
m/p-Xylene	7.5 ug/g	7.6	50% - 150%	101%
o-Xylene	3.8 ug/g	3.8	70% - 130%	100%
Toluene-D8 (surrogate)	100 %	96	50% - 150%	96%
Petroleum Hydrocarbons - gasoline	50 ug/g	70	49% - 141%	140%
Petroleum Hydrocarbons - diesel	150 ug/g	165	49% - 141%	110%

Paracel Laboratories Ltd.
Glossary of Terms

Date: 11/16/98

DL	The laboratory Detection Limit. The value is based on instrument response and is the lowest level that can be quantitated with confidence
n/a	Not applicable to this particular analysis.
NV	No Value, typically used for calculated results when the divisor is zero.
Surrogate Data	Surrogates are 'not naturally occurring' compounds which are added to the sample prior to analysis in order to monitor method performance. The results of the surrogate recoveries are reported in percent.
Blank	The results from the analysis of a matrix blank in the same run.
Duplicate Data	The results from an intralaboratory split sample that has been processed identically to that of the primary sample. Result for split sample are listed together with the results from the primary sample.
Reference Standard	Results from the analysis of a Reference Standard. A Reference Standard is a standard that contains the parameters of interest and is procured from a source secondary to the Calibration standard. EXPECTED: The actual concentration of the analyte in the Reference Standard. RECOVERY - Recovery of the spiked material reported in percent.
Spike Data	The results obtained from a sample fortified at a known level. The recovery of the spike is dependent on the level of the analyte found in the sample and spike. EXPECTED - Calculated value of the sample results + fortification amount which yield 100 % Recovery MEASURED - Results from the analysis of the fortified sample RECOVERY - Recovery of the spiked material reported in percent.
LLA	Lower Limit of Acceptability for QC recovery data.
ULA	Upper Limit of Acceptability for QC recovery data.

Paracel Laboratories Ltd.

Order #D4332

Certificate of Analysis

J.D. Paterson and Associates

28 Concourse Gate, Unit 1

Nepean, Ontario K2E 7T7

Attn: Mr. Mark D'Arcy

Voice: 226-7381

Fax: 226-6344

Clients Ref: **3399**

Project: **E1378**

Reference:

Report Date: **11/16/98**

Order Date: **11/10/98**

Sample Date: **11/09/98**

This Certificate of Analysis contains analytical data for the following samples:

Paracel ID

D4332.1

Client ID

E1378-Nov 9/98

Approved By: _____



Dale Robertson, B.Sc.

Paracel Laboratories Ltd.
Certificate of Analysis

Date: 11/16/98

Order # D4332

Client: J.D. Paterson and Associates

Client Ref: 3399

Project: E1378

Note - DL is the lowest detection limit normally attainable by the laboratory. If the sample is reported less than a value greater than the DL, the sample required dilution prior to analysis

Sample ID: E1378-Nov 9/98

Matrix: Soil

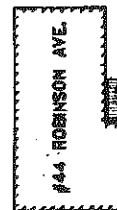
Paracel ID: D4332.1

Date Sampled: 11/09/98

Parameter	units	DL	Result
Petroleum Hydrocarbons (gasoline)	ug/g	10	420
Petroleum Hydrocarbons (diesel)	ug/g	10	13,000
Flashpoint	deg. C	n/a	>70

ROBINSON

AVENUE



ABOVEGROUND
& UNDERGROUND
OIL STORAGE TANKS

TP14

TP 8

TP 7

TP12

TP10

TP 9

TP 6

TP11

TP17

TP12

TP15

BH 1

BH 2

MEMORANE BARRIER
(INSTALLED JAN. 21/87)

POCKETS OF
CONTAMINATION

IRREGULAR WIRE FENCE

LEGEND:



TEST PIT LOCATION



BOREHOLE LOCATION

Client:	G & M HOMES	Project No.:	E1378-97
Project:	ENVIRONMENTAL SITE ASSESSMENT	Date:	MAY 1997
Title:	TEST HOLE LOCATION PLAN 42 & 44 ROBINSON AVENUE OTTAWA, ONTARIO	Drawn By:	E1378-2
		Scale:	~ 1:250
		Drawn By:	MSD
		Check:	MPG
		Drawn By:	COS



JOHN D. PATERSON AND ASSOC. LTD.
Consulting Geotechnical and Geoenvironmental Engineers
28 Concession Gate, Unit 1, Nepean, Ontario K2E 7T7



Kollaard Associates

Engineers

210 Prescott Street, Unit 1

P.O. Box 189

Kemptville, Ontario K0G 1J0

Civil • Geotechnical •
Structural • Environmental •

(613) 860-0923

FAX: (613) 258-0475

REPORT ON

PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT UPDATE

**36 ROBINSON AVENUE
OTTAWA, ONTARIO**

Submitted to:

Mr. Gary Courville
36 Robinson Avenue
Ottawa, ON
K1N 8N9

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November, 2012

File 120691



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FAX: (613) 258-0475

November 2, 2012

120691

Mr. Gary Courville
36 Robinson Avenue
Ottawa, Ontario
K1N 8N9

RE: PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT UPDATE
LOTS 7, 10, 13, 16 AND 19, PLAN 190
ROBINSON AVENUE
CITY OF OTTAWA, ONTARIO

Dear Sir:

This letter provides an update for the Phase I Environmental Site Assessment (ESA) Report prepared for the above noted site. The purpose of this work was to check, by means of a review of the above mentioned report and a site reconnaissance visit, whether or not any environmentally significant changes have occurred at the site since the preparation of the subject report. In order to assess some of the historical conditions at the property, a review of information provided by ECOLOG ERIS – Environmental Risk Information Services was carried out as part of this Phase I ESA update. The original Phase I ESA, together with this Phase I ESA update, are consistent with the requirements of the Canadian Standards Association for Phase I ESA (CSA Standard Z769-01), which complies with the current Ministry of Environment Standards (Schedule D of O. Reg 511/09) that came into effect on July 1, 2011 when a record of site condition is not required.

The report reviewed for this update work consists of Kollaard Associates Inc. Report No. 080675, entitled Phase I Environmental Site Assessment, Lots 7, 10, 13, 16 and 19, Plan 190, Robinson Avenue, City of Ottawa, Ontario, dated September 26, 2008.

The review of the report indicated that the subject report was prepared for four buildings, with civic addresses 36, 38, 40 and 42/44 Robinson Avenue. The buildings at the site were used for residential purposes, and for custom motorcycle manufacturing, storage and minor repairs. The results of the Phase I ESA indicated no past usage other than that noted above. The report indicated that two previous environmental evaluation reports, carried out by John D. Paterson & Associates Ltd. in 1998, were reviewed. One report indicated that hydrocarbon impacted soil was removed from the area of former underground and above ground fuel tanks at 42/44 Robinson Avenue, and that some contaminated soil remaining below the east side of the existing building could be removed if the buildings are to be torn down in the future. The second report indicated a remediation of the property at 229 Lees Avenue. The above noted Phase I ESA Report for the subject site indicated that the potential environmentally related issues identified at the site were the possible presence of subsurface hydrocarbon contamination from former above ground and below ground fuel oil storage tanks at 42/44 Robinson Avenue and from former fuel oil storage tanks which were used to fuel space heaters for two of the existing buildings at 36 and 38 Robinson Avenue. Also indicated was the potential for subsurface contamination associated with former landfill and former industrial sites located within 500 metres of the subject site.



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The report concluded that should the risk of possible unknown contamination within the subsurface at the site need to be reduced, a program of soil and groundwater sampling together with appropriate laboratory testing could be carried out.

A site reconnaissance visit was carried out by a member of our engineering staff on October 25, 2012. The following describes conditions identified at the site that have changed from those described in the subject Phase I ESA report.

- At 42/44 Robinson Avenue, the building is vacant (ie. no longer a second storey apartment) and is used for miscellaneous storage, including home furnishings, some automotive parts and one motorcycle. The building is not heated and the above ground furnace oil tank that was previously used to heat the building remains in place at the east side of the building but is empty.
- The majority of the exterior storage, previously observed, has been removed from the site
- No obvious change in development has occurred adjacent to the site of any environmental significance.

A review of information provided by ECOLOG ERIS identifies property uses or incidents of environmental significance within a 250 metre radius of the subject property (Attachment A).

In the TSSA incident and historical incident sections, two incidents are noted. One is a possible carbon monoxide leak at 13 Robinson Avenue. No environmental impact is indicated due to this incident. The second is a discovery of product (unnamed contaminant) that spilled to a depth of about 4 feet at 29 Hurdman Road.

In the Fuel Storage Tank and Private and Retail Fuel Storage Tanks information are gasoline and diesel tanks associated with Capital Beef in 1991, formerly located at 229 Lees Avenue (address not current).

Retail Fuel Storage Tanks are associated with a former Canadian Tire oil change & lubrication service facility at 85 Robinson Avenue (address not current), indicated to be some 80 metres east of the site.

The Ontario Regulation 347 Waste Generators Summary lists nearby waste generators. The City of Ottawa, located at 29 Hurdman Road, some 70 metres south of the subject site, has wastes described as fuels, paints, oils, lubricants and sludges, from 1998 to the current activity 2012. A second waste generator, Pitt's Engineering, formerly located at the Hurdman Bridge at Hwy 417, was indicated to have operated between 1986 to 1998, with wastes described as waste oils & lubricants.

Ontario Spills section indicates six spills within 250 metres of the subject site. However, only one spill was indicated to have possible environmental impact. An above ground furnace oil tank was reported to have leaked in the basement of the dwelling at 28 Robinson Avenue, in 1988. The property is located some 22 metres from the west side of the subject site.

No other significant environmental concerns were identified in the Environmental Risk Information Services Standard Report.



Mr. Gary Courville
November 2, 2012

Phase I Environmental Site Assessment Update
Robinson Avenue, City of Ottawa, Ontario
120691

-3-

In summary, the results of the review of the above mentioned subject report and site reconnaissance visit do not indicate any environmentally significant changes have occurred, within the site subject of this letter, during the time between preparation of the subject report in September 2008 and this present letter. Accordingly, it is considered that the applicable information provided in the subject report can be relied upon by Mr. Gary Courville as current with the exception of the additional information provided by the ECOLOG ERIS information on former land use and documented spills within 250 metres of the subject site. No action with regards to the additional environmental information is warranted at this time.

Limitations

The results of this present update work should in no way be construed as confirmation or warranty of the thoroughness, accuracy or adherence to applicable standards of the information and conclusions presented in the subject Phase I ESA report.

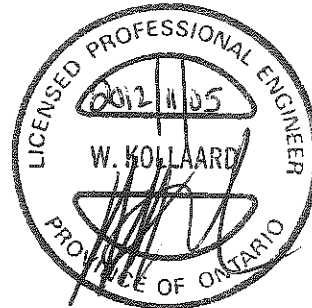
We accept no responsibility for any deficiencies, or inaccuracies in this letter as a result of omissions, misinterpretations or fraudulent acts of others.

We trust that this report provides sufficient information for your present purposes. If you have any questions concerning this information or if we can be of further assistance to you, please do not hesitate to contact our office.

Yours truly,

Kollaard Associates Inc.

Colleen Vermeersch, B. Eng.



William Kollaard, P. Eng.



Mr. Gary Courville
November 2, 2012

Phase I Environmental Site Assessment Update
Robinson Avenue, City of Ottawa, Ontario
120691

ATTACHMENT A
ECOLOG ERIS SEARCH RESULTS



Canada's Primary Environmental Risk Information Service

Project Site: Phase I ESA
36 Robinson Ave
Ottawa, ON K1N8N9

Client: Dean Tataryn
Kollaard Associates Inc.
PO Box 189
210 Prescott Street
Kemptville, ON K0G1J0

ERIS Project No: 20121010007

Report Type: Standard Report - .25km Search Radius

Prepared By: Rafal Wojtasik
rwojtasik@eris.ca

Date: October 18, 2012

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Table of Contents

Order Number: 20121010007
Site Name: Phase I ESA
Site Address: 36 Robinson Ave Ottawa, ON K1N8N9
Report Type: Standard Report, 0.25 km Search Radius

	<u>Section</u>
Report Summary	i
<i>This outlines the number of records from each database that fall on the site, and within various distances from the site.</i>	
Site Diagram	ii
<i>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.</i>	
Site Profile	iii
<i>This table describes the records that relate directly to the property that is being researched.</i>	
Detail Report	iv
<i>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.</i>	
	<u>Page</u>
Borehole	1
Certificates of Approval	12
Environmental Registry	14
ERIS Historical Searches	15
Fuel Storage Tank	16
Ontario Regulation 347 Waste Generators Summary	17
TSSA Historic Incidents	19
TSSA Incidents	20
Private and Retail Fuel Storage Tanks	21
Retail Fuel Storage Tanks	22
Ontario Spills	23
Appendix: Database Descriptions	

Report Summary

Order Number: 20121010007
 Site Name: Phase I ESA
 Site Address: 36 Robinson Ave Ottawa, ON K1N8N9
 Report Type: Standard Report, 0.25 km Search Radius

Number of Mappable Records Surrounding the Site

Database	Selected	On-site	Within 0.25	0.25km to 2.00km	Total
AAGR	Abandoned Aggregate Inventory	Y	0	0	0
AGR	Aggregate Inventory	Y	0	0	0
AMIS	Abandoned Mine Information System	Y	0	0	0
ANDR	Anderson's Waste Disposal Sites	Y	0	7	7
AUWR	Automobile Wrecking & Supplies	Y	0	3	3
BORE	Borehole	Y	0	11	971
CA	Certificates of Approval	Y	0	4	235
CFOT	Commercial Fuel Oil Tanks	Y	0	0	4
CHEM	Chemical Register	Y	0	0	0
COAL	Coal Gasification Plants	Y	0	0	2
CONV	Compliance and Convictions	Y	0	0	0
CPU	Certificates of Property Use	Y	0	0	0
DRL	Drill Hole Database	Y	0	0	0
EASR	Environmental Activity and Sector Registry	Y	0	0	3
EBR	Environmental Registry	Y	0	1	15
ECA	Environmental Compliance Approval	Y	0	0	2
EEM	Environmental Effects Monitoring	Y	0	0	0
EHS	ERIS Historical Searches	Y	0	3	166
EIIS	Environmental Issues Information System	Y	0	0	0
EXP	List of TSSA Expired Facilities	Y	0	0	143
FCON	Federal Convictions	Y	0	0	0
FCS	Contaminated Sites on Federal Land	Y	0	0	18
FOFT	Fisheries & Oceans Fuel Storage Tanks	Y	0	0	0
FST	Fuel Storage Tank	Y	0	1	38
GEN	Ontario Regulation 347 Waste Generators Summary	Y	0	4	775
HINC	TSSA Historic Incidents	Y	0	1	62
IAFT	Indian & Northern Affairs Fuel Tanks	Y	0	0	0
INC	TSSA Incidents	Y	0	1	9
LIMO	Landfill Inventory Management Ontario	Y	0	0	0
MINE	Canadian Mine Locations	Y	0	0	0
MNR	Mineral Occurrences	Y	0	0	0
NATE	National Analysis of Trends in Emergencies System (NATES)	Y	0	0	0
NCPL	Non-Compliance Reports	Y	0	0	0
NDFT	National Defence & Canadian Forces Fuel Storage Tanks	Y	0	0	1
NDSP	National Defence & Canadian Forces Spills	Y	0	0	10
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Y	0	0	0
NEES	National Environmental Emergencies System (NEES)	Y	0	0	1
NPCB	National PCB Inventory	Y	0	0	25
NPRI	National Pollutant Release Inventory	Y	0	0	24
OGW	Oil and Gas Wells	Y	0	0	0
OOGW	Ontario Oil and Gas Wells	Y	0	0	2
OPCB	Inventory of PCB Storage Sites	Y	0	0	12

Report Summary

Order Number: 20121010007
 Site Name: Phase I ESA
 Site Address: 36 Robinson Ave Ottawa, ON K1N8N9
 Report Type: Standard Report, 0.25 km Search Radius

Database	Selected	On-site	Within 0.25	0.25km to 2.00km	Total
ORD Orders	Y	0	0	0	0
PAP Canadian Pulp and Paper	Y	0	0	0	0
PCFT Parks Canada Fuel Storage Tanks	Y	0	0	0	0
PES Pesticide Register	Y	0	0	33	33
PINC TSSA Pipeline Incidents	Y	0	0	14	14
PRT Private and Retail Fuel Storage Tanks	Y	0	1	42	43
PTTW Permit to Take Water	Y	0	0	0	0
REC Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0	0
RSC Record of Site Condition	Y	0	0	16	16
RST Retail Fuel Storage Tanks	Y	0	1	5	6
SCT Scott's Manufacturing Directory	Y	0	0	108	108
SPL Ontario Spills	Y	0	6	234	240
SRDS Wastewater Discharger Registration Database	Y	0	0	0	0
TANK Anderson's Storage Tanks	Y	0	0	0	0
TCFT Transport Canada Fuel Storage Tanks	Y	0	0	0	0
VAR Variances for Abandonment of Underground Storage Tanks	Y	0	0	2	2
WDS Waste Disposal Sites - MOE CA Inventory	Y	0	0	0	0
WDSH Waste Disposal Sites - MOE 1991 Historical Approval Inventory	Y	0	0	5	5
WWIS Water Well Information System	Y	0	0	136	136
TOTAL		0	34	3,107	3,141

















































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.

Project Property: Phase I ESA
36 Robinson Ave
Ottawa, ON
K1N8N9

ERIS Project #: 20121010007

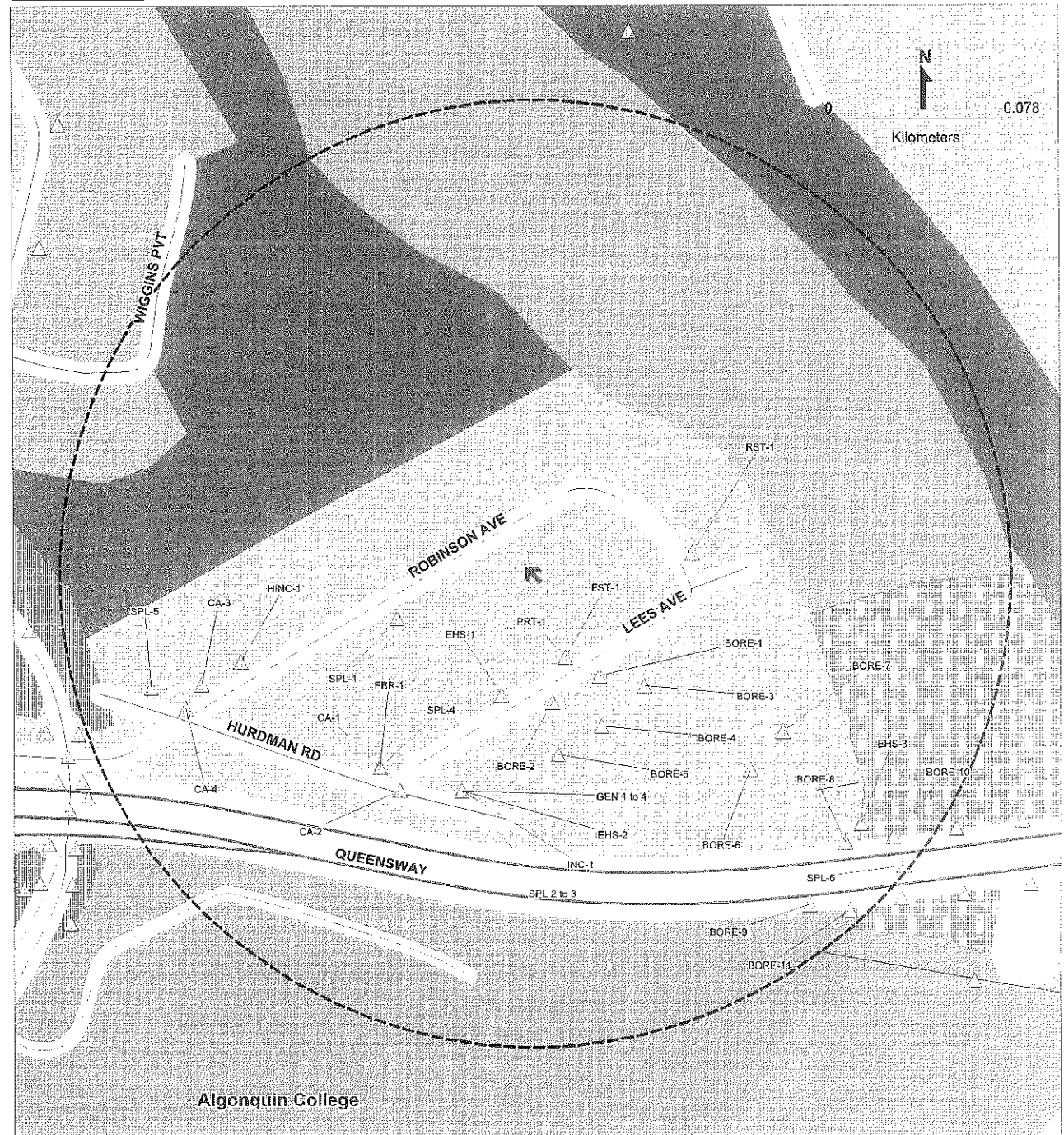
Date: OCT-18-2012

LEGEND

- | | | | |
|---|-----------------------|---|------------------------------|
|  | Project Property |  | Landuse Classifications |
|  | Database Location |  | Open Area |
| Points of Interest | |  | Residential |
|  | Chimney |  | Commercial |
|  | Silo |  | Resource and Industrial |
| Pipe & Transmission Lines | |  | Government and Institutional |
|  | Pipeline |  | Parks and Recreational |
|  | Transmission Line |  | Waterbody |
|  | Transmission Tower | Recreation | |
|  | Transformer Station |  | Golf Course/Driving Range |
| Rail | |  | Park/Sports Field |
|  | Railway - Main |  | Other Recreation Area |
|  | Railway - Sidetrack |  | Sports/Race Track |
|  | Railway - Abandoned |  | Cemetery |
|  | Bridge |  | Campground |
|  | Tunnel | Vegetation | |
| Transportation - Other | |  | Wooded Area |
|  | Embankment |  | Orchard |
|  | Trail |  | Vineyard |
|  | Runway | Industrial Resources | |
| Hydrographic Features | |  | Conveyor |
|  | Permanent Waterway |  | Crane: Moveable |
|  | Intermittent Waterway |  | Crane: Stationary |
|  | Open Reservoir |  | Tank |
|  | Dyke/Levee |  | Rock Cut |
|  | Dam |  | Auto Wrecker |
|  | Breakwall |  | Lumber Yard |
|  | Wetland |  | Pit |

— This diagram is to be used solely for relative street location purposes.
It may not accurately portray street or site positions.

SITE DIAGRAM



Section ii

Site Report

Order Number: 20121010007

Site Name: Phase I ESA

Site Address: 36 Robinson Ave Ottawa, ON K1N8N9

Report Type: Standard Report, 0.25 km Search Radius

FOR COMPLETE INFORMATION, REFER TO DETAIL REPORT

A search has been conducted for this site (address) and company name. No records were found, within the database(s) selected, that meet either of these criteria.

Detail Report

Order Number: 20121010007
Site Name: Phase I ESA
Site Address: 36 Robinson Ave Ottawa ON K1N8N9
Report Type: Standard Report, 0.25 km Search Radius

If information is required for sites located beyond the selected address, please contact your ERIS representative.

Borehole

Certificates of Approval

Environmental Registry

ERIS Historical Searches

Fuel Storage Tank

Ontario Regulation 347 Waste Generators Summary

TSSA Historic Incidents

TSSA Incidents

Private and Retail Fuel Storage Tanks

Retail Fuel Storage Tanks

Ontario Spills

Borehole

Map Key	Company	Address	Borehole ID	Type	Use
BORE-1			802680	Borehole	Geotechnical/Geological Investigation
<div>Status:</div> <div>Drill Method: Hollow stem auger</div> <div>UTM Zone: 18</div> <div>Easting: 447931.389</div> <div>Northing: 5029583.693</div> <div>Location Accuracy:</div> <div>Orig. Ground Elevation(m): 60.900002</div> <div>Elev. Reliability Note:</div> <div>DEM Ground Elevation(m): 59.400002</div> <div>Total Depth(m): 12</div> <div>Primary Name: BH 3</div> <div>Township:</div> <div>Concession:</div> <div>Lot:</div> <div>Municipality</div> <div>Completion Date: 1982-FEB-11</div> <div>Static Water Level: 4.700000</div> <div>Primary Water Use:</div> <div>Secondary Water Use:</div> <div>Location Description:</div>					
			<u>Geology</u>	<u>Top Depth(m)</u>	<u>Bottom Depth(m)</u>
			<u>Stratum ID</u>		<u>Stratum Desc</u>
			218573105	0.400000	0.500000
			218573106	0.500000	12
			218573104	0	0.400000

Borehole

Map Key	Company	Address	Borehole ID	Type	Use
BORE-2			802678	Borehole	Geotechnical/Geological Investigation
Status: Drill Method: Hollow stem auger UTM Zone: 18 Easting: 447906.702 Northing: 5029570.155 Location Accuracy: Orig. Ground Elevation(m): 61.200001 Elev. Reliability Note: DEM Ground Elevation(m): 59.500000 Total Depth(m): 6.700000 Primary Name: BH 2 Township: Concession: Lot: Municipality: Completion Date: 1982-FEB-11 Static Water Level: 4.400000 Primary Water Use: Secondary Water Use: Location Description:					
		Geology	Top Depth(m)	Bottom Depth(m)	Stratum Desc
		Stratum ID			
		218573092	0	0.300000	Dark Grey Fill-Misc sand silt With: Gr W Brk Frag
		218573093	0.300000	0.500000	Concrete
		218573094	0.500000	1.200000	Dark Brown Fill-Misc sand silt With: Gr W Brk Frag
		218573095	1.200000	1.400000	Brown sand silt With: Org M
		218573096	1.400000	6.700000	Dark Brown to Grey Compact to Loose Till sand silt With: Cl W Gr Occasional: Cob Occ Blds

Borehole

Map Key	Company	Address	Borehole ID	Type	Use	
BORE-3			802685	Borehole	Geotechnical/Geological Investigation	
<div>Status:</div> <div>Drill Method: Hollow stem auger</div> <div>UTM Zone: 18</div> <div>Easting: 447954.878</div> <div>Northing: 5029578.256</div> <div>Location Accuracy:</div> <div>Orig. Ground Elevation(m): 61.799999</div> <div>Elev. Reliability Note:</div> <div>DEM Ground Elevation(m): 59.700001</div> <div>Total Depth(m): 9.100000</div> <div>Primary Name: BH 5</div> <div>Township:</div> <div>Concession:</div> <div>Lot:</div> <div>Municipality</div> <div>Completion Date: 1982-FEB-12</div> <div>Static Water Level: 4.400000</div> <div>Primary Water Use:</div> <div>Secondary Water Use:</div> <div>Location Description:</div>						
			<u>Geology</u>	<u>Top Depth(m)</u>	<u>Bottom Depth(m)</u>	<u>Stratum Desc</u>
			<u>Stratum ID</u>			
			218573129	0	1.500000	Dark Grey Very Loose Fill- Misc sand silt With: Brk Frag W Blds W Org M
			218573130	1.500000	2	Brown Compact Layered Sandy Silt & Silty Sand
			218573131	2	9.100000	Dark Brown to Grey Compact to Loose Till sand silt With: Cl W Gr Occasional: Cob Occ Blds

Borehole

Map Key	Company	Address	Borehole ID	Type	Use	
BORE-4			802682	Borehole	Geotechnical/Geological Investigation	
<div>Status:</div> <div>Drill Method: Hollow stem auger</div> <div>UTM Zone: 18</div> <div>Easting: 447932.278</div> <div>Northing: 5029557.680</div> <div>Location Accuracy:</div> <div>Orig. Ground Elevation(m): 61.799999</div> <div>Elev. Reliability Note:</div> <div>DEM Ground Elevation(m): 59.799999</div> <div>Total Depth(m): 6.700000</div> <div>Primary Name: BH 4</div> <div>Township:</div> <div>Concession:</div> <div>Lot:</div> <div>Municipality</div> <div>Completion Date: 1982-FEB-10</div> <div>Static Water Level:</div> <div>Primary Water Use:</div> <div>Secondary Water Use:</div> <div>Location Description:</div>						
			<u>Geology</u>	<u>Top Depth(m)</u>	<u>Bottom Depth(m)</u>	<u>Stratum Desc</u>
			<u>Stratum ID</u>			
			218573113	0	0.100000	Concrete
			218573114	0.100000	1.200000	Dark Grey to Black Cinder Ash
			218573115	1.200000	1.400000	Dark Brown Topsoil Silt
			218573116	1.400000	2	Brown Compact sand silt
			218573117	2	6.700000	Dark Brown to Grey Dense to Loose Till sand silt With: Cl W Gr Occasional: Cob Occ Blds

Borehole

Map Key	Company	Address	Borehole ID	Type	Use	
BORE-5			802676	Borehole	Geotechnical/Geological Investigation	
Status:						
Drill Method: Hollow stem auger						
UTM Zone: 18						
Easting: 447909.479						
Northing: 5029543.108						
Location Accuracy:						
Orig. Ground Elevation(m): 61.500000						
Elev. Reliability Note:						
DEM Ground Elevation(m): 60.900002						
Total Depth(m): 10.200000						
Primary Name: BH 1						
Township:						
Concession:						
Lot:						
Municipality						
Completion Date: 1982-FEB-9						
Static Water Level: 4.300000						
Primary Water Use:						
Secondary Water Use:						
Location Description:						
			Geology	Top Depth(m)	Bottom Depth(m)	Stratum Desc
			Stratum ID			
			218573078	0	0.100000	Concrete
			218573079	0.100000	0.600000	Dark Brown Fill-Misc sand silt Trace: Gr Tr Brk Frag
			218573080	0.600000	1.100000	Dark Brown sand silt With: Org M
			218573081	1.100000	2.900000	Brown Compact to Dense Till sand silt With: Cl W Gr
			218573082	2.900000	4	Brown Dense Sand
			218573083	4	5.500000	Grey Dense Till Silt - Sand With: Gr W Cob Trace: Cl
			218573084	5.500000	10.100000	Dark Grey Compact to Dense Till Silt - Sand With: Cl W Gr W Blds
			218573085	10.100000	10.200000	Bedrock Shale

Borehole

Map Key	Company	Address	Borehole ID	Type	Use	
BORE-6			802687	Borehole	Geotechnical/Geological Investigation	
<div>Status: Drill Method: Hollow stem auger UTM Zone: 18 Easting: 448010.329 Northing: 5029534.228 Location Accuracy: Orig. Ground Elevation(m): 61.599998 Elev. Reliability Note: DEM Ground Elevation(m): 60.099998 Total Depth(m): 5.200000 Primary Name: BH 6 Township: Concession: Lot: Municipality Completion Date: 1982-FEB-10 Static Water Level: Primary Water Use: Secondary Water Use: Location Description:</div>						
			<u>Geology</u>	<u>Top Depth(m)</u>	<u>Bottom Depth(m)</u>	<u>Stratum Desc</u>
			<u>Stratum ID</u>			
			218573138	0	0.200000	Concrete
			218573139	0.200000	0.500000	Brown Fill-Misc Sand With: Gr W Cob
			218573140	0.500000	2.200000	Dark Grey to Black Dense to Very Loose Cinder Ash With: Brk Frag
			218573141	2.200000	2.900000	Brown Very Loose Silt With: Sa Trace: Cl Tr Gr
			218573142	2.900000	5.200000	Brown Loose to Very Dense Till sand silt With: Cl W Gr

Borehole

Map Key	Company	Address	Borehole ID	Type	Use
BORE-7			802691	Borehole	Geotechnical/Geological Investigation
Status: Drill Method: Hollow stem auger UTM Zone: 18 Easting: 448027.631 Northing: 5029553.902 Location Accuracy: Orig. Ground Elevation(m): 59.900002 Elev. Reliability Note: DEM Ground Elevation(m): 58.099998 Total Depth(m): 5.900000 Primary Name: BH 7 Township: Concession: Lot: Municipality Completion Date: 1982-FEB-10 Static Water Level: 3.300000 Primary Water Use: Secondary Water Use: Location Description:					
			<u>Geology</u>	<u>Top Depth(m)</u>	<u>Bottom Depth(m)</u>
			<u>Stratum ID</u>		<u>Stratum Desc</u>
			218573161	0	Cinder Ash
			218573162	0.200000	Brown Silt - Sand
			218573163	0.400000	Brown Very Loose Silt - Sand
			218573164	1.700000	Dark Brown to Grey Compact to Loose Till sand silt With: Cl W Gr Occasional: Cob Occ Bids
			218573165	5.800000	Bedrock Shale

Borehole

Map Key	Company	Address	Borehole ID	Type	Use
BORE-8			848154	Borehole	Geotechnical/Geological Investigation
Status: Decommissioned Drill Method: Hollow stem auger UTM Zone: 18 Easting: 448060.000 Northing: 5029495.000 Location Accuracy: Orig. Ground Elevation(m): 56 Elev. Reliability Note: DEM Ground Elevation(m): 59.599998 Total Depth(m): 3.400000 Primary Name: Township: NEPEAN Concession: BROKEN FRONT D Lot: LOT G Municipality Completion Date: 1984-NOV-23 Static Water Level: Primary Water Use: Secondary Water Use: Location Description:					
			Geology	Top Depth(m)	Bottom Depth(m)
			Stratum ID		Stratum Desc
			6560128	0	1.200000
					HETEROGENEOUS MIXTURE OF SILTY CLAY, SAND WITH SHALE FRAGMENTS

Provincial Source Database

Borehole

Map Key	Company	Address	Borehole ID	Type	Use
BORE-8			613301	Borehole	
			Status: Drill Method: UTM Zone: 18 Easting: 448041.000 Northing: 5029462.000 Location Accuracy: Orig. Ground Elevation(m): 58.700001 Elev. Reliability Note: DEM Ground Elevation(m): 61 Total Depth(m): 1.300000 Primary Name: Township: Concession: Lot: Municipality Completion Date: 1962-JUL Static Water Level: -2.300000 Primary Water Use: Secondary Water Use: Location Description:		
			<u>Geology</u>	<u>Top Depth(m)</u>	<u>Bottom Depth(m)</u>
			<u>Stratum ID</u>		<u>Stratum Desc</u>
			218394570	0	1.100000
			218394571	1.100000	1.300000
					ARTIFICIAL.
					ARTIFICIAL. SOFT. SOFT.
					CLAY. GREY,FIRM. CLAY.
					GREY,FIRM. TILL.
					COMPACT. BEDROCK. FO

Provincial Source Database

Borehole

Map Key	Company	Address	Borehole ID	Type	Use
BORE-10			848152	Borehole	Geotechnical/Geological Investigation
			Status: Decommissioned Drill Method: Hollow stem auger UTM Zone: 18 Easting: 448085.000 Northing: 5029498.000 Location Accuracy: Orig. Ground Elevation(m): 55.299999 Elev. Reliability Note: DEM Ground Elevation(m): 60.400002 Total Depth(m): 2.100000 Primary Name: Township: Concession: Lot: Municipality Completion Date: 1984-NOV-23 Static Water Level: Primary Water Use: Secondary Water Use: Location Description:		
			<u>Geology</u>	<u>Top Depth(m)</u>	<u>Bottom Depth(m)</u>
			<u>Stratum ID</u>		<u>Stratum Desc</u>
			6560123	0	0.200000
			6560124	0.200000	0.800000
			6560125	0.800000	2.100000
					RIVER BOTTOM
					BOULDERS, LIMESTONE
					BOULDERS
					BLACK SHALE BEDROCK,
					UNWEATHERED

Borehole

Map Key	Company	Address	Borehole ID	Type	Use	
BORE-11			848153	Borehole	Geotechnical/Geological Investigation	
			Status: Decommissioned			
			Drill Method: Hollow stem auger			
			UTM Zone: 18			
			Easting: 448062.000			
			Northing: 5029459.000			
			Location Accuracy:			
			Orig. Ground Elevation(m): 56.299999			
			Elev. Reliability Note:			
			DEM Ground Elevation(m): 59			
			Total Depth(m): 3.700000			
			Primary Name:			
			Township: NEPEAN			
			Concession: BROKEN FRONT D			
			Lot: LOT G			
			Municipality			
			Completion Date: 1984-NOV-23			
			Static Water Level:			
			Primary Water Use:			
			Secondary Water Use:			
			Location Description:			
			<u>Geology</u>	<u>Top Depth(m)</u>	<u>Bottom Depth(m)</u>	<u>Stratum Desc</u>
			<u>Stratum ID</u>			
			6560126	0	1.700000	HETEROGENEOUS MIXTURE OF SILTY CLAY, SAND WITH SHALE FRAGMENTS, FIRM
			6560127	1.700000	3.700000	MODERATELY WEATHERED TO UNWEATHERED WITH DEPTH BLACK SHALE BEDROCK

Certificates of Approval

Map Key	Company	Address	Certificate #	Application Year	Issue Date	Approval Type	Status	Application Type
CA-1	Kelly's Auto Body (1984) Limited	23 Hurdman Road Ottawa K1N 8N7	2062-5JRU49	2003	3/4/2003	Air	Approved	
			Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control:					
CA-2	OTTAWA CITY-LEES AVE.	LEES AVE./HURDMAN RD./ROBINSON OTTAWA CITY	3-0584-90-	90	4/18/1990	Municipal sewage	Approved	
			Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control:					
CA-3		9 Robinson Ave. Ottawa K1N 8N8	7132-4N2QFS	00	8/11/00	Municipal & Private sewage	Approved	New Certificate of Approval
			Client Name: Pegasus Development Corporation Client Address: 1914 Merivale Rd. Client City: Nepean Client Postal Code: K2G 1E8 Project Description: Storm & Sanitary Sewers Contaminants: Emission Control:					
CA-4	DANBAR HOLDINGS (OTTAWA) LIMITED	ROBINSON AVE/HURDMAN RD. OTTAWA CITY	7-1132-97-	97	10/17/1997	Municipal water	Approved	
			Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control:					

Provincial Source Database

Certificates of Approval

Map Key	Company	Address	Certificate #	Application Year	Issue Date	Approval Type	Status	Application Type
n/a	R.M. OF OTTAWA-CARLETON	LEES AVE. OTTAWA CITY	3-1317-86-	86	9/23/1986	Municipal sewage	Revised	
			Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control:					
n/a	CITY OF OTTAWA NON-PROFIT HSG. CORP.	WIGGINS PVT/STRATHCONA HEIGHTS OTTAWA CITY	3-1263-91-	91	9/25/1991	Municipal sewage	Approved	
			Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control:					
n/a	SPENCER & ASSOC.CONSLTG.ENG.LTD.	LEES AVE. OTTAWA	3-0807-85- 006	85	7/30/85	Municipal sewage	Approved	
			Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control:					
n/a		Lees Avenue Ottawa	8377-4MUJUZ	00	8/8/00	Municipal & Private water	Approved	New Certificate of Approval
			Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control:					
			Corporation of the Regional Municipality of Ottawa-Carleton 4475 Trail Rd. Nepean K0A 2Z0 Rehabilitation of existing watermain with new watermain & hydrants on Lees Avenue					

Environmental Registry

Map Key	Company	Address	Year	EBR Registry No.	Ministry Ref. No.	Type
EBR-1	Kelly's Auto Body (1984) Limited	23 Hurdman Road Ottawa K1N 8N7	2002	IA02E1108		Instrument
				Instrument Type:	EPA s. 9 - Approval for discharge into the natural environment other than water (i.e. Air)	
				Proposal Date:	9/18/02	
				Location:	23 Hurdman Road, Ottawa, Ontario, K1N 8N7Ottawa	
				Proponent Address:	Kelly's Auto Body (1984) Limited23 Hurdman Road, Ottawa, Ontario, K1N 8N7	

ERIS Historical Searches

Map Key	Company	Address	Order No.	Report Date	Report Type	Search Radius (km)
EHS-1		211 Lees Avenue Ottawa	20110405028	4/14/2011	Standard Report	0.25
			Addit. Info Ordered: Fire Insur. Maps and/or Site Plans			
EHS-2		29 Hurdman Road Ottawa	20100111005	1/19/2010	Standard Report	0.25
			Addit. Info Ordered:			
EHS-3		Hwy 417 Ottawa	20120201022	3/22/2012	Custom Report	0.25
			Addit. Info Ordered:			

Fuel Storage Tank

Map Key	Company	Address	License Issue Date	Tank Status	Tank Status As Of	Operation Type	Facility Type
FST-1	CAPITAL BEEF ATTN:FRANK VELLENERUVE	229 LEES AVE OTTAWA K1N 8P1	1/17/1991	Licensed	August 2007	Private Fuel Outlet	Gasoline Station - Self Serve
			<u>Status</u>	<u>Capacity (L)</u>	<u>Year of Installation</u>	<u>Corrosion Protection</u>	<u>Tank Fuel Type</u>
			Not-Active	10000	1991		Liquid Fuel Single Wall UST - Gasoline
			Not-Active	25000	1991		Liquid Fuel Single Wall UST - Diesel

Ontario Regulation 347 Waste Generators Summary

Map Key	Company	Address	SIC Code	SIC Description	Waste Code	Waste Description
GEN-1	OTTAWA, CORPORATION OF THE CITY OF	29 HURDMAN ROAD OTTAWA K1N 0A3	Generator #: ON0136222 Approval Yrs: As of Apr 2012		145	Wastes from the use of pigments, coatings and paints
					251	Waste oils/sludges (petroleum based)
					252	Waste crankcase oils and lubricants
GEN-2	OTTAWA, CORPORATION OF THE CITY OF	29 HURDMAN ROAD OTTAWA	8373	ENVIRON. ADMIN. Generator #: ON0136222 Approval Yrs: 99,00,01,02,03,04,05,06,07,08	221	LIGHT FUELS
					251	OIL SKIMMINGS & SLUDGES
					252	WASTE OILS & LUBRICANTS
GEN-3	OTTAWA, CITY OF	29 HURDMAN ROAD OTTAWA	8373	ENVIRON. ADMIN. Generator #: ON0136222 Approval Yrs: 97,98	221	LIGHT FUELS
					251	OIL SKIMMINGS & SLUDGES
					252	WASTE OILS & LUBRICANTS
GEN-4	OTTAWA, CORPORATION OF THE CITY OF	29 HURDMAN ROAD OTTAWA	913910	Other Local Municipal and Regional Public Administration Generator #: ON0136222 Approval Yrs: 2009	251	OIL SKIMMINGS & SLUDGES
					252	WASTE OILS & LUBRICANTS
n/a	OTTAWA-CARLTON, REGIONAL MUNICIPALITY OF	HURDMAN'S BRIDGE, PUMPING STATION RIVERSIDE DRIVE OTTAWA	8272	RES. CONS./IND. DEV. Generator #: ON0303122 Approval Yrs: 98	251	OIL SKIMMINGS & SLUDGES
n/a	PITTS ENGINEERING CONSTRUCTION	BANISTER CONT. LTD. C/O BOX 8008 OTTAWA TERMINAL HURDMAN BRIDGE AT HWY. 417 OTTAWA-CARLETON K1G 3H6	4121	HIGHWAYS, STR., ETC. Generator #: ON0760802 Approval Yrs: 86,87,88,89,90	252	WASTE OILS & LUBRICANTS
n/a	PITTS ENGINEERING CONSTRUCTION 31-354	BANISTER CONT. LTD. C/O BOX 8008 OTTAWA TERMINAL HURDMAN BRIDGE AT HWY. 417 OTTAWA-CARLETON K1G 3H6	4121	HIGHWAYS, STR., ETC. Generator #: ON0760802 Approval Yrs: 92,93,94,95,96	252	WASTE OILS & LUBRICANTS

Ontario Regulation 347 Waste Generators Summary

Map Key	Company	Address	SIC Code	SIC Description	Waste Code	Waste Description
n/a	PITTS (OUT OF BUS) 31-354	BANISTER CONT. LTD. C/O BOX 8008 OTTAWA TERMINAL HURDMAN BRIDGE AT HWY. 417 OTTAWA-CARLETON K1G 3H6	4121	HIGHWAYS, STR., ETC.	252	WASTE OILS & LUBRICANTS
			Generator #:	ON0760802		
			Approval Yrs:	97,98		

TSSA Historic Incidents

Map Key	Company	Address	External File Num	Date of Occurrence	Fuel Occurrence Type	Fuel Type Involved
HINC-1		13 ROBINSON AVENUE OTTAWA K1N 8N8	FS INC 0810-06586			
			Status Desc:	Completed - No Action Required		
			Job Type Desc:	Incident/Near-Miss Occurrence (FS)		
			Oper. Type Involved:			
			Service Interruptions:			
			Property Damage:			
			Fuel Life Cycle Stage:			
			Root Cause:			
			Reported Details:	Non-mandated. Regional Supervisor Stu Seaton advises that the source of the CO is not related to ny		
			Fuel Category:	Unknown		
			Occurrence Type:	Incident		
			Affiliation:	Emergency Services (Fire, Police,etc)		
			County Name:	Ottawa		
			Approx. Quant. Rel:			
			Nearby body of water:			
			Enter Drainage Syst.:			
			Approx. Quant. Unit:			
			Environmental Impact:			

TSSA Incidents

Map Key	Company	Address	Incident ID	Incident Number	SR Type	Status Code
INC-1		29 Hurdman Road, Ottawa	2768080	611458	FS-Incident	Causal Analysis Complete
			Summary:	29 Hurdman Road, Ottawa - Discovery of Product		
			Drainage System:	Unknown		
			Sub Surface Contam.:	Yes, 4 feet deep at least.		
			Aff. Prop. Use Water:	No		
			Contam. Migrated:	Unknown		
			Contact Natural Env.:	Yes		
			Near Body of Water:	No		
			Approx. Quant. Rel.:	Unknown		
			Equipment Model:			
			Serial No:			
			Residential App. Type:			
			Commercial App. Type:			
			Industrial App. Type:			
			Institutional App. Type:			
			Venting Type:			
			Vent Connector Mater.:			
			Vent Chimney Mater.:			
			Notes:			
			Pipeline Type:			
			Pipeline Involved:			
			Pipe Material:			
			Depth Ground Cover:			
			Regulator Location:			
			Regulator Type:			
			Operation Pressure:			
			Pipeline Notes:			
			Liquid Prop Make:			
			Liquid Prop Model:			
			Liquid Prop Serial No:			
			Equipment Type:			
			Cylinder Capacity:			
			Cylinder Capac. Units:			
			Cylinder Material Type:			
			Tank Capacity:			
			Tank Material Type:			
			Tank Storage Type:			
			Tank Location Type:			
			Pump Flow Rate Capac:			
			Liquid Prop Notes:			

Private and Retail Fuel Storage Tanks

Map Key	Company	Address	Location ID	Type	Expiry Date	Capacity (L)	Licence #
PRT-1	CAPITAL BEEF ATTN:FRANK VELLENERUVE	229 LEES AV OTTAWA K1N 8P1	10985	private		35000.00	0001055614

Retail Fuel Storage Tanks

Map Key	Company	Address	Facility	Description
RST-1	CANADIAN TIRE PIT STOP	85 ROBINSON AVE OTTAWA K1N 8N8	Oil Changes & Lubrication Service	

Ontario Spills

Map Key	Company	Address	Ref No.	Incident Dt	MOE Reported Dt	Contaminant Name	Contaminant Quantity
SPL-1	UNKNOWN	PRIVATE HOUSE MR. BERNARD SEQUIN 28 ROBINSON AVE 613- 235-4130(741-81210) OTTAWA CITY K1N 8N9	1788	3/26/1988	3/29/1988		
			Incident Summary: PRIVATE HOUSE- NOTICED FURNACE OIL ENTERING THE BASEMENT. Incident Cause: ABOVE-GROUND TANK LEAK Incident Reason: CORROSION Nature of Impact: SOIL CONTAMINATION Receiving Medium: LAND Environmental Impact: POSSIBLE				
SPL-2	City of Ottawa	29 Hurdman Avenue Ottawa K1N 8N7	2115-8HSJCT	6/13/2011	6/13/2011	OIL (PETROLEUM BASED, NOT SPECIFIED)	0 other - see incident description
			Incident Summary: TSSA: UST discovery, leak Incident Cause: Tank (Underground) Leak Incident Reason: Corrosion - All forms of internal/external corrosion Nature of Impact: Other Impact(s); Soil Contamination Receiving Medium: Environmental Impact: Not Anticipated				
SPL-3	City of Ottawa	29 Hurdman Road Ottawa	2465- 7QRP HH		4/3/2009	DIESEL FUEL	136 L
			Incident Summary: City of Ottawa: 136L diesel to CB, cntd, clineg Incident Cause: Container Leak (Fuel Tank Barrels) Incident Reason: Spill Nature of Impact: Receiving Medium: Environmental Impact: Not Anticipated				
SPL-4	Hydro Ottawa Limited	23 HURDMAN<UNOFFICIAL> Ottawa K1N 8N7	8445- 62AMYH	6/25/2004	6/25/2004	TRANSFORMER OIL (N.O.S.)	115 L
			Incident Summary: Hydro-Ottawa, 110-115L non-PCB transf. oil Incident Cause: Incident Reason: Nature of Impact: Receiving Medium: Land Environmental Impact: Not Anticipated				
SPL-5	PRIVATE OWNER	5-9 HURDMAN STREET MOTOR VEHICLE (OPERATING FLUID) OTTAWA CITY K1N 8N6	74304	8/6/1992	8/6/1992		
			Incident Summary: PRIVATE VEHICLE: 10 L MOTOR OIL DUMPED ON ROAD/CATCHBASIN Incident Cause: OTHER CONTAINER LEAK Incident Reason: INTENTIONAL/PLANNED Nature of Impact: Receiving Medium: LAND Environmental Impact: NOT ANTICIPATED				

Ontario Spills

Map Key	Company	Address	Ref No.	Incident Dt	MOE Reported Dt	Contaminant Name	Contaminant Quantity
SPL-6	UNKNOWN	HURDMAN BRIDGE OUTFALL OTTAWA CITY	18417	5/12/1989	5/12/1989		
			Incident Summary:		OTTAWA CITY- FUEL SPILL ON RIDEAU RIVER		
			Incident Cause:		UNKNOWN		
			Incident Reason:		OTHER		
			Nature of Impact:				
			Receiving Medium:		WATER		
			Environmental Impact:				
n/a	UNKNOWN	HURDMAN INTERCEPTOR OTTAWA CITY	155117	4/29/1998	4/29/1998		
			Incident Summary:		SOURCE UKN-OIL FOUND IN STORM SEWER INTERCEPTOR, CONTAINED,CLEANUP ONGOING		
			Incident Cause:		UNKNOWN		
			Incident Reason:		UNKNOWN		
			Nature of Impact:				
			Receiving Medium:		WATER		
			Environmental Impact:		NOT ANTICIPATED		

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 Jun 2011

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 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.

TSSA Commercial Fuel Oil Tanks 1948-Aug 2011**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.

Inventory of Coal Gasification Plants and Coal Tar Sites April 1987 and November 1988***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.*

Compliance and Convictions 1989-Aug 2012**CONV**

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

Certificates of Property Use 1994-Sept 2012**CPU**

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

Drill Holes 1886-Oct 2011**DRL**

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

Environmental Activity and Sector Registry Oct 31, 2011-Sept 2012**EASR**

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

Environmental Registry 1994-Sept 2012**EBR**

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

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**EXP**

This is a list of all expired facilities that fall under the TSSA (TSS 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**FST**

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

Ontario Regulation 347 Waste Generators Summary 1986-Apr 2012**GEN**

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

TSSA Historic Incidents 2006-June 2009**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. We also work 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**INC**

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

Landfill Inventory Management Ontario 2010**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.

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-Sept 2012**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-Mar 2011**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-Sept 2012

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.

Record of Site Condition 1997-Sept 2001, Oct 2004-Aug 2012

RSC

The Record of Site Condition (RSC) is part of the Ministry of the Environment's Brownfields Environmental Site Registry. Protection from environmental cleanup orders for property owners is contingent upon documentation known as a record of site condition (RSC) being filed in the Environmental Site Registry. In order to file an RSC, the property must have been properly assessed and shown to meet the soil, sediment and groundwater standards appropriate for the use (such as residential) proposed to take place on the property. The Record of Site Condition Regulation (O. Reg. 153/04) details requirements related to site assessment and clean up. RSCs filed after July 1, 2011 will also be included as part of the new (O.Reg. 511/09).

Ontario Spills 1988-2011

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-Sept 2012

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:

Diagram Identifier:

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-May 2012

FCS

The Treasury Board of Canada Secretariat maintains an inventory of all known contaminated sites held by various Federal departments and agencies. This inventory does not include properties owned by Crown corporations, but does contain non-federal sites for which the Government of Canada has accepted some or all financial responsibility. All sites have been classified through a system developed by the Canadian Council of Ministers of the Environment. The database provides information on company name, location, site ID #, property use, classification, current status, contaminant type and plan of action for site remediation.

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.

National Defence & Canadian Forces Spills Mar 1999-Aug 2010

NDSP

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

National Defence & Canadian Forces Waste Disposal Sites 2001-April 2007

NDWD

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

National Environmental Emergencies System (NEES) 1974-2003

NEES

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

National PCB Inventory 1988-2008

NPCB

Environment Canada's National PCB inventory includes information on in-use PCB containing equipment in Canada including federal, provincial and private facilities. All federal out-of-service PCB containing equipment and all PCB waste owned by the federal government or by federally regulated industries such as airlines, railway companies, broadcasting companies, telephone and telecommunications companies, pipeline companies, etc. are also listed. Although it is not Environment Canada's mandate to collect data on non-federal PCB waste, the National PCB inventory includes some information on provincial and private PCB waste and storage sites.

National Pollutant Release Inventory 1993-2010

NPRI

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

Parks Canada Fuel Storage Tanks 1920-Jan 2005

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.

Transport Canada Fuel Storage Tanks 1970-March 2007

TCFT

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.

Private Source Databases:

Anderson's Waste Disposal Sites 1860s-Present

ANDR

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

Automobile Wrecking & Supplies 2001-Jun 2010

AUWR

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

Chemical Register 1992, 1999-Jun 2010

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.).

ERIS Historical Searches 1999-Apr 2012

EHs

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

Canadian Mine Locations 1998-2009

MINE

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

Oil and Gas Wells Oct 2001-Jun 2012

OGW

The Nickle's Energy Group (publisher of the Daily Oil Bulletin) collects information on drilling activity including operator and well statistics. The well information database includes name, location, class, status and depth. The main 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.

Canadian Pulp and Paper 1999, 2002, 2004, 2005, 2009

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.

Retail Fuel Storage Tanks 2000-Jun 2010

RST

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

Scott's Manufacturing Directory 1992-Mar 2011

SCT

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*

TANK

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



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Engineers

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Civil • Geotechnical •
Structural • Environmental •
Industrial Health & Safety

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REPORT ON

PHASE I ENVIRONMENTAL SITE ASSESSMENT LOTS 7, 10, 13, 16 AND 19, PLAN 190 ROBINSON AVENUE CITY OF OTTAWA, ONTARIO

Submitted to:

Mr. Gary Courville
36 Robinson Avenue
Ottawa, Ontario
K1N 8N9

DISTRIBUTION:

4 copies - Mr. Gary Courville
2 copies - Kollaard Associates Inc.

September 2008

080675



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September 2008

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080675

EXECUTIVE SUMMARY

This Phase I Environmental Site Assessment was carried out by Kollaard Associates Inc. for Mr. Gary Courville of Ottawa, Ontario. The subject site for this assessment is described as Lots 7, 10, 13, 16 and 19, Plan 190, City of Ottawa, Ontario. The subject site is known as 36 Robinson Avenue with assigned civic addresses of 36, 38, 40 and 42/44 Robinson Avenue, City of Ottawa, Ontario.

The purpose of the Phase I Environmental Site Assessment was to identify, if possible, through non-intrusive investigation the existence of any significant, actual or potential environmental liabilities associated with the property. The Phase I Environmental Site Assessment has been prepared in general conformity with our interpretation of the requirements of CSAZ768 for conducting environmental site assessments.

The Phase I Environmental Site Assessment was based on a site reconnaissance visit, and a review of available geological, topographical and historical information for the site.

The results of this Phase I ESA indicate that the most significant environmentally related issues identified at the site are the possible presence of subsurface hydrocarbon contamination from former above ground and below ground fuel oil storage tanks at 42/44 Robinson Avenue and the possible presence of subsurface contamination associated with former fuel oil storage tanks which were used to fuel space heaters for two of the existing buildings at 36 and 38 Robinson Avenue. As well, there is the potential for subsurface contamination associated with former landfill and former industrial sites located within 500 metres of the subject site.

Should the risk of possible unknown contamination within the subsurface at the site need to be reduced, a program of soil and groundwater sampling together with appropriate laboratory testing could be carried out.



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TABLE OF CONTENTS

Executive Summary	i
Table of Contents	ii

SECTION	Page Number
1.0 INTRODUCTION.....	1
2.0 SITE DESCRIPTION.....	2
2.1 LOCATION AND LEGAL DESCRIPTION	2
2.2 SITE AND AREA CHARACTERISTICS.....	2
2.3 SEWAGE DISPOSAL	3
2.4 WATER SUPPLY	3
2.5 PAST AND PRESENT PROPERTY USES AND ACTIVITIES	3
3.0 HISTORICAL INFORMATION REVIEW.....	3
3.1 GEOLOGICAL, TOPOGRAPHICAL AND HYDROGEOLOGICAL SETTING	4
3.2 AIR PHOTOGRAPH REVIEW	4
3.3 MINISTRY OF THE ENVIRONMENT (MOE) RECORDS.....	4
3.4 CITY OF OTTAWA	4
3.5 PREVIOUS ENVIRONMENTAL EVALUATION REPORT	6
4.0 SITE RECONNAISSANCE.....	6
4.1 STORAGE	8
4.2 STORAGE TANKS.....	8
4.3 POLYCHLORINATED BIPHENYLS (PCB's).....	8
4.4 SUSPECT ASBESTOS CONTAINING MATERIALS (ACM)	9
4.5 SOLID WASTE DISPOSAL PRACTICES.....	9
4.6 ADJACENT PROPERTIES	9
4.7 NOISE, DUST AND VIBRATIONS.....	9
4.8 GENERAL STORAGE AND DEBRIS (HOUSEKEEPING).....	9
4.9 OZONE DEPLETING SUBSTANCES.....	9
4.10 LEAD	10
4.11 UREA FORMALDEHYDE FOAM INSULATION (UFFI)	10
5.0 ISSUES OF POTENTIAL ENVIRONMENTAL CONCERN.....	10
6.0 CONCLUSIONS	11
7.0 LIMITATIONS AND USE OF REPORT	11

LIST OF FIGURES

FIGURE 1 - KEY PLAN
FIGURE 2 - SITE PLAN

LIST OF ATTACHMENTS

ATTACHMENT A - TITLE SEARCH DOCUMENTATION
ATTACHMENT B - AIR PHOTOGRAPHS
ATTACHMENT C - ONTARIO MINISTRY OF THE ENVIRONMENT CORRESPONDENCE



1.0 INTRODUCTION

The subject site for this assessment consists of about a 0.18 hectare (0.45 acre) property located on the south side of Robinson Avenue, approximately 200 metres east of the intersection of Hurdman Road and Robinson Avenue, in the City of Ottawa, Ontario, (see Key Plan, Figure 1). The site is described as Lots 7, 10, 13, 16 and 19, Plan 190, City of Ottawa, Ontario. The subject site is known as 36 Robinson Avenue with assigned civic addresses of 36, 38, 40 and 42/44 Robinson Avenue, City of Ottawa, Ontario.

The site is located within an area of mixed residential development. The site is bordered on the north by Robinson Avenue and on the east, south and west by residential development. Currently, the site is occupied by four buildings.

For the purpose of this assessment, "project north" will be considered to lie in a direction perpendicular to Robinson Avenue at the site (see Key Plan, Figure 1).

The primary objective of this Phase I ESA is to document the site conditions on the day of a walk-through site reconnaissance and, if possible, to identify former operations or practices that may present potential environmental risks. The study is based on current and historical information and observations of site conditions during a site reconnaissance visit conducted on July 31 and September 12, 2008.

The scope of the Phase I ESA is sufficient to identify existing and/or potential environmental liabilities which are obvious from visual examination of surface features and from available sources of information. This level of work is a method of risk reduction, not risk elimination. No building materials, soil, water, liquid, gas, or chemical product sampling and/or testing on or in the vicinity of the subject site were carried out as part of this Phase I ESA. This assessment included only a cursory overview of the present neighbouring land uses and does not constitute a complete assessment of the adjacent facilities.

Sections 2.0 and 3.0 of this report provide details of the site and information review. Section 4.0 outlines the site reconnaissance findings. Section 5.0 outlines issues of potential environmental concerns which were identified. Sections 6.0 and 7.0 present a summary of the assessment, and the limitations of the report, respectively.





2.0 SITE DESCRIPTION

2.1 Location and Legal Description

The subject site for this assessment consists of about a 0.18 hectare (0.45 acre) property located on the south side of Robinson Avenue, in the City of Ottawa, Ontario (see Key Plan, Figure 1). The subject site for this assessment is described as Lots 7, 10, 13, 16 and 19, Plan 190, City of Ottawa, Ontario. The subject site is known as 36 Robinson Avenue with assigned civic addresses of 36, 38, 40 and 42/44 Robinson Avenue, City of Ottawa, Ontario.

The legal description for the site for this assessment is described as Lots 7, 10, 13, 16 and 19, Plan 190, Part of Lot G, Concession D, Rideau Front, former Township of Nepean, now in the City of Ottawa, Ontario.

2.2 Site and Area Characteristics

The attached Key Plan, Figure 1 and air photographs show the relative location of the subject site with respect to the surrounding land and the existing roadway network. The site has an area of approximately 0.18 hectare (0.45 acre). The site is located within an area of mixed residential development. The site is bordered on the north by Robinson Avenue and on the east, south and west by residential development.

Currently, the site is occupied by four buildings used mostly for residential purposes but also for custom motorcycle manufacturing, storage and minor repairs.

The ground surface across the site is relatively flat lying with a gentle slope toward the northeast.

Based on a review of topographical maps for the site area, it is expected that the upper groundwater flow at the site is to the east towards the Rideau River which exists approximately 100 to 150 metres east of the subject site.



2.3 Sewage Disposal

Municipal sanitary sewers and storm sewers exist within Robinson Avenue which borders the north side of the subject site.

2.4 Water Supply

A municipal water supply system exists within Robinson Avenue which borders the north side of the subject site.

2.5 Past and Present Property Uses and Activities

A chain of title for the site (see Attachment B) was provided by Wentzell Titles Ltd. Based on a review of the title search information, the property is indicated to have been owned mostly by individuals but also by free companies, the Sisters of Charity and the City of Ottawa. The companies are listed as Mount Royal Paving and Supplies Ltd., Henry Hayley & Sons Ltd., Franson Limited, Vorcan Tool Company Limited and Shenkman Corporation Ltd. The current owner is listed as Mr. Gary Courville.

3.0 HISTORICAL INFORMATION REVIEW

In order to assess some of the historical conditions at the property, a preliminary review of information from the following sources was conducted:

- Topographic and geological maps
- National Air Photo Library - Energy Mines and Resources, Ottawa, Ontario
- Ministry of Environment (MOE), Ottawa, Ontario
- City of Ottawa Planning Department
- Old Landfill Management Strategy Phase 1 – Identification of Sites, City of Ottawa, Ontario, December 2003, Reference Number 021-2785 by Golder Associates Ltd.
- Mapping and Assessment of Former Industrial Sites – City of Ottawa, July 1988, Reference Number H87-053, by Intera Technologies Ltd.
- Previous environmental evaluation reports by J.D. Paterson & Associates Ltd.



3.1 Geological, Topographical and Hydrogeological Setting

Based on a review of the surficial geology map for the site area, it is expected that the site is underlain by glacial till. Bedrock geology maps indicate that the bedrock underlying the site consists of dark grey almost black limestone of the Eastview Formation. Based on a review of topographical maps for the site area, it is expected that the upper groundwater flow at the site is to the east towards the Rideau River which exists approximately 100 to 150 metres east of the subject site.

3.2 Air Photograph Review

A review of air photographs of the site for the years 1947, 1954, 1964, 1978, 1988, 1994, 2002, 2005 and 2008 was carried out as part of this Phase I ESA. All of the air photographs indicate the site is developed. All of the air photographs indicate structures at the site. The 1947, 1954 and 1960 air photographs indicate industrial development existed approximately 300 to 350 metres west and southwest of the subject site. The 1973 air photograph indicates a series of roadways has been constructed in the area formerly occupied by the industrial development. The 1960 to 1994 air photographs indicate an industrial type building structure located east of the subject site. The 2002 through 2008 air photographs indicate the site located east of the subject site has been redeveloped for residential use.

3.3 Ministry of the Environment (MOE) Records

The MOE office in Ottawa, Ontario, was contacted to determine if the Ministry has maintained a file with respect to the subject property. Specifically, the MOE was asked to respond (in writing) with information concerning any historical or existing incidents at or in the vicinity of the subject site. A response from the MOE indicates no historical or existing incidents at or in the vicinity of the subject site.

3.4 City of Ottawa

Information from the City of Ottawa planning department was obtained regarding the zoning of the site. The City of Ottawa indicates that the site is currently zoned R4T(483), Residential Fourth Density Zone which has been in effect since June 25, 2008, and is presently awaiting the appeal



period and disposition of the Ontario Municipal Board. Prior to this zoning designation, the site was zoned R5D(181) Residential Fifth Zone under Zoning By-law 93-98.

A review of a report entitled Old Landfill Management Strategy Phase 1 – Identification of Sites, City of Ottawa, Ontario, December 2003, Reference Number 021-2785 by Golder Associates Ltd. indicates four abandoned landfill sites existed within five hundred metres of the subject site. The report indicates the sites were located as follows: Riverside Drive (UR-10), Algonquin College Rideau Campus – Lees Avenue (UR-12), Riverside Drive and Queensway (UR-13), Hurdman bridge and Transitway and Lees Avenue Old Armoury (UR-28). The location of the former landfill sites is shown on the attached site plan plan, Attachment D. The type of wastes from these landfills included mostly domestic wastes with some light industrial and possibly liquid wastes, incinerator ash (Lees Incinerator) and other burnt waste, a mixture of earth fill and garbage and municipal fill and cinders from the City of Ottawa gas plant, cinder and ash with some brick, glass and metal fragments.

A review of a report entitled Mapping and Assessment of Former Industrial Sites – City of Ottawa by Intera Information Technologies (Canada) Ltd, report number H87-053, dated July 1988 identifies four former industrial sites located within 500 metres of the subject site. The industrial sites are identified in the report as Cities Service Oil, Co. Ltd., Currie Products Ltd, Royal Canadian Engineers Workshop and Ottawa Gas Co. The industrial sites were formerly located at Southside Mann Avenue south of Sweetland, 170 Lees Avenue, 31 Brunswick Avenue, and 175 Lees Avenue. The report identifies that the sites were used for bulk storage of oil and gas (Cities Service Oil Co. Ltd.), a coal tar distillery, tar products and roofers supplies and manufacturers of coal tar and asphalt products (Currie Products Ltd.), a non-industrial site for the government (Royal Canadian Engineers Workshops and Laboratories) also used as a landfill and refined petroleum and coal products industries (Ottawa Gas Company). The report identifies that all of the sites have been subject to site investigations and clean-ups, as well as the installation of a leachate collection and treatment system. The report identifies potential environmental impacts from these sites are likely occurring to the Rideau River through oil and waste seepage, however, many of these sites have been redeveloped.



3.5 Previous Environmental Evaluation Report

A review of two reports written by John D. Paterson & Associates Ltd. 1998 was carried out as part of this assessment. The reports are entitled Environmental Site Remediation Program, Former Capital Beef Corporation Site, 229 Lees Avenue, Ottawa, Ontario, prepared for G & M Homes, report number E1378-1, dated January 24, 1997, and Limited Environmental Site Characterization, 42 and 44 Robinson Avenue, Ottawa, Ontario, File E1378-04 and E1378-06 dated May 15, 1997 and November 17, 1998. These reports pertain to the east portion of the subject site (civic addresses 42 and 44 Robinson Avenue) and the property located immediately east of the site (229 Lees Avenue), respectively. The report for 229 Lees Avenue indicates that contamination was identified at the site and a remediation program was carried out on the subject site which identifies that the "bulk of the contaminated soil has been removed and disposed off-site". The report prepared for 42 and 44 Robinson Avenue indicates hydrocarbon contaminated soil was detected and removed from an area impacted by former underground and aboveground fuel storage tanks. However, the report indicates the presence of a building and mature trees in the areas of the former tanks restricted the removal of contaminated material below the existing building and mature trees. The report indicates "that if the buildings are to be torn down in the future, that the remaining impacted soil on the east side of the building (at 44 Robinson Avenue) be removed at that time".

4.0 SITE RECONNAISSANCE

On July 31 and September 12, 2008, a walk-through site reconnaissance was conducted at the subject property by a member of Kollaard Associates Inc. engineering staff. The site is located within an area of mixed residential development.

The site is bordered on the north by Robinson Avenue and on the east, south and west by residential development.

Currently, the site is occupied by four buildings: a small storage building, one single family dwelling and an apartment building and a building used to manufacture custom motorcycles. A gravel parking lot exists on the south side of all but one of the buildings at the site.



At the time of the site visit, the following was observed throughout the site on the exterior:

- several wood window frames, plastic storage containers, aluminum rims, several rubber tires, metal vehicle parts, several wood palettes, some plastic shelves, one truck cap and other miscellaneous items.

Based on a discussion with Mr. Gary Courville it is understood Mr. Courville purchased the property in about 1981. Mr Courville indicated that at that time three of the buildings used electrical baseboards for heating purposes, however, two of these buildings were formerly equipped with space heaters which used heating oil as a fuel source. Mr. Courville indicated that the fuel oil for the space heaters was stored in two tanks located outside the buildings and were above ground. Mr. Courville indicated that the two tanks were removed sometime in the early 1980's. The two tanks were located at civic address 36 and 38 Robinson Avenue.

36 Robinson Avenue:

Currently used to store motorcycle parts. Formerly used as a motorcycle shop and retail business. Mr. Courville indicated that repairs were discontinued at the shop about 6 years ago and recently the business is only used to sell motorcycle parts. Mr. Courville indicated that the building was formerly heated with a space heater. Mr. Courville indicated that the fuel oil storage tank for the space heater was removed in the 1980's. Mr. Courville indicated that a floor drain, which he installed in about 1982, exists within the rear portion of the building and is connected to a storm sewer. The building was observed to be stocked with motorcycle parts at the time of the site visit. Mr. Courville indicated that a space heater and fuel oil tank were used to heat the building in the past and was converted to electric heat in the 1980's.

38 Robinson Avenue:

Since taking ownership in 1981, the building has always been used for residential purposes. Mr. Courville also indicated that this building was formerly heated using a space heater and fuel oil tank, however, the building was converted to electric heat in the 1980's.

40 Robinson Avenue:

This building is currently used to manufacture custom motorcycles. Motorcycle parts and equipment were observed throughout the building. Some oil and grease containers were observed within the building. No floor drains exist within the building. The current tenant indicated that some



vehicle oil changes have been carried out in the shop. The tenant indicated that no more than a five gallon pail of used oil was stored at the site and that the used oil was picked up by a local recycling company.

42/44 Robinson Avenue:

The building was observed to include a storage garage on the main floor with an apartment building on the second floor. The storage area was observed to contain a car. A fuel oil storage tank was observed adjacent the interior east wall of the building. Mr. Courville indicated that the fuel oil tank was replaced about 7 years ago. The fuel oil storage tank was observed for signs of aging and possible leakage. No visible signs of leakage were observed at the time of the site visit. One of the above mentioned previous environmental evaluation reports by John. D. Paterson & Associates Ltd. identifies the soil along the east side of the building at 42/44 Robinson Avenue is still impacted by subsurface hydrocarbon contamination.

4.1 Storage

No storage of hazardous materials was observed. Based on the indicated past usage of the property, past storage of hazardous materials is considered unlikely.

4.2 Storage Tanks

No evidence of underground fuel storage tanks were observed at the site. Based on a conversation with Mr. Gary Courville, no fuel tanks exist other than the aboveground storage tank located at 44 Robinson Avenue.

4.3 Polychlorinated Biphenyls (PCB's)

A visual reconnaissance of the buildings was undertaken to identify the possible presence of items which may contain PCB's. It is understood that incandescent lighting exists within the buildings. Based on the age of the buildings, some of the electrical equipment installed prior to 1978-1980 may contain PCB liquids. The use of PCB's in electrical equipment such as transformers, capacitors, etc., was common up to about 1980. It is not a requirement to remove operating PCB containing electrical equipment, however, the storage and disposal of equipment containing PCB's should be carried out in accordance with the applicable regulations.



4.4 Suspect Asbestos Containing Materials (ACM)

The common use of friable (breakable by hand) ACM in construction decreased in the mid 1970's. Buildings constructed prior to about 1980 may contain some ACM. Examples where ACM can exist include floor, wall or ceiling tiles, heating/cooling pipes and insulation/non-combustible materials. Since these buildings were constructed prior to 1970, ACM could be present within the buildings. Under Ontario Regulations, it is not a requirement to remove asbestos from a building unless it is damaged or is likely to be disturbed during renovations or demolition work etc. If asbestos is to be removed, it should be carried out in accordance with the procedures outlined in Ontario Regulation 837, R.R.O. 1990.

4.5 Solid Waste Disposal Practices

No disposal of solid waste was observed at the site.

4.6 Adjacent Properties

The site is bordered on the north by Robinson Avenue followed by residential development, and on the east, west and south by other residential development.

4.7 Noise, Dust and Vibrations

There is potential for some vehicular noise, dust and vibrations to exist at the site from the use of nearby Highway 417, a major highway which exists approximately 200 metres south/southeast of the subject site.

4.8 General Storage and Debris (Housekeeping)

At the time of the site reconnaissance, housekeeping at the site is considered to be good.

4.9 Ozone Depleting Substances

Some older air conditioning models may contain CFC's and should be handled as necessary in accordance with the Code of Practice for the reduction of CFC Emissions from Refrigeration and Air Conditioning Systems, 1989.



4.10 Lead

Lead is commonly associated with old pipes, pipe solder, and lead paint. In 1976, Canadian Regulations limited the amount of lead in interior paint to 0.5 percent by weight. Considering the age of the buildings at this site, there is a possibility that the buildings could contain lead. The Occupational Health and Safety Regulations respecting lead in the workplace should be taken into account for any work which might affect the paint in the building.

4.11 Urea Formaldehyde Foam Insulation (UFFI)

The majority of UFFI was installed in new and existing construction in Canada between 1975 and 1978 as part of the Canadian Home Insulation Program. Since the buildings at this site were constructed later than 1976, it is unlikely for UFFI to exist. The visual reconnaissance of the building, although somewhat limited in this regard since intrusive observations were not carried out, did not reveal any potential UFFI.

5.0 ISSUES OF POTENTIAL ENVIRONMENTAL CONCERN

In summary, based on the information gathered during this Phase I ESA, the following issues of potential environmental concern have been identified.

- There is a potential for subsurface hydrocarbon contamination to exist at the site as noted in the report by John D. Paterson & Associates Ltd. entitled Limited Environmental Site Characterization, 42 and 44 Robinson Avenue, Ottawa, Ontario, File E1378-04 and E1378-06 dated May 15, 1997 and November 17, 1998. The report indicated "that if the buildings are to be torn down in the future, that the remaining impacted soil on the east side of the building (42/44 Robinson Avenue) be removed at that time".
- There is a potential for subsurface hydrocarbon contamination to exist at the site in the area of the former fuel storage tanks which supplied fuel for the space heaters at 36 and 38 Robinson Avenue.
- There is a potential for subsurface contamination to exist at the site from former landfill sites and former industrial sites which are located within 500 metres of the subject site. Some of the information indicates an upper groundwater flowing beneath the former landfills/industrial



sites in the direction of the subject site. The documentation also indicates that extensive groundwater monitoring and were being implemented by the City of Ottawa.

- There is the potential for vehicular traffic noise, dust and vibrations, associated with the use of nearby Highway 417, a major highway located south/southeast of the site.

6.0 Conclusions

The results of this Phase I ESA suggest that the potential risks associated with this site are limited to those outlined in Section 5 above. Should the risk of unknown contamination need to be reduced, such as any subsurface hydrocarbon contamination from the former fuel oil storage tanks or any subsurface contamination related to the former landfill and industrial sites, a program of soil and groundwater sampling together with appropriate laboratory testing could be carried out.

7.0 LIMITATIONS AND USE OF REPORT

The results of this Phase I ESA should in no way be construed as a warranty that the subject property is free from any and all contaminants other than those noted in this report, nor that all compliance issues have been addressed.

This report was prepared for the exclusive use of Mr. Gary Courville and is based on data and information collected during the Phase I of the property conducted by Kollaard Associates Inc. This report may not be relied upon by any other person or entity without the express written consent of Mr. Gary Courville and Kollaard Associates Inc. In evaluating this site, Kollaard Associates Inc. has relied in good faith on information provided by others. The assessment of environmental conditions and possible site hazards presented have been made using available technical data collected and provided by others. We accept no responsibility for any deficiencies, or inaccuracies in this report as a result of omissions, misinterpretations, or fraudulent acts of others.

The conclusions provided herein represent the best judgement of Kollaard Associates Inc. based on current environmental standards. Due to the nature of the investigation and the limited data available, we cannot warrant against undiscovered environmental liabilities. If new information is discovered during future work, including excavations, borings or other studies, Kollaard Associates



Inc. should be requested to re-evaluate the conclusions presented in this report and provide amendments as required.

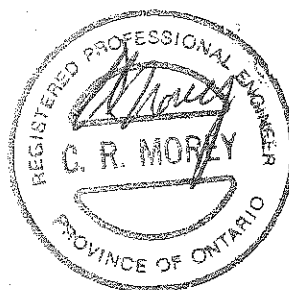
We trust that this report is sufficient for your present requirements. If you have any questions concerning this report, please do not hesitate to contact our office.

Yours truly,

Kollaard Associates Inc.

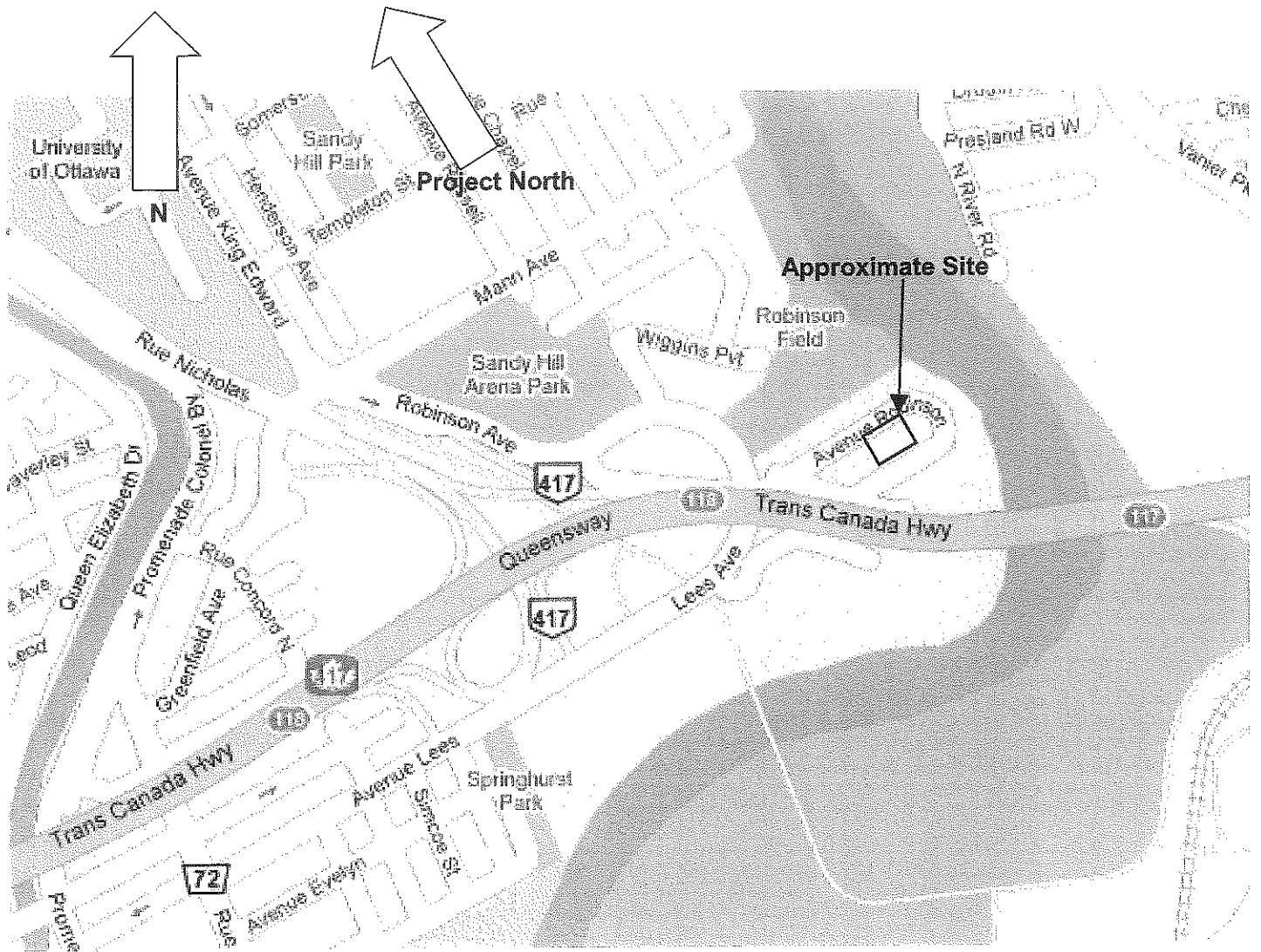
Prepared by D. M. Tataryn, B.E.S.

Reviewed by C. R. Morey, P. Eng.



KEY PLAN

FIGURE 1



NOT TO SCALE



Kollaard Associates
Engineers

Project No. 080675
Date September 2008



Kollaard Associates

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ATTACHMENT A

TITLE SEARCH DOCUMENTATION



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Attn: Sean Tataron

①

ENVIRONMENTAL SEARCH

Project no. 080675

INSTRUMENT #	TYPE	DATE	VENDOR	PURCHASER
	Patent	Feb 19 1856	Crown	Hammatt Pinkey
R010035	Deed	Aug 20 1856	Hammatt Pinkey	Martin Kealey
R014940	Deed	Nov 9 1859	Martin Kealey	Thomas Kealey
NP11162	Deed	July 3 1886	Thomas Kealey	The Community General Hospital Alma House and Seminary of Teaching of the Sisters of Charity at Ottawa
NP17194	Deed	May 13 1896	The Community General Hospital Alma House and Seminary of Teaching of the Sisters of Charity at Ottawa	Thomas W. McDermott & Robert P. Robinson
OE848	Quit Claim Deed	Sept 9 1902	Robert P. Robinson	Thomas W. McDermott (Part)

ENVIRONMENTAL SEARCH

INSTRUMENT #	TYPE	DATE	VENDOR	PURCHASER
0E963	Quit Claim Deed	Apr 14 1904	Thomas H. McDermott	Mary McDermott
0E971	Deed	May 6 1904	Mary McDermott Thomas H. McDermott	James Haley
0E1046	Deed	July 22 1905	James Haley	Mary McDermott
0E1174	Deed	July 7 1906	Mary McDermott Thomas H. McDermott	James H. Copping
0E1244	Deed	Jan 19 1907	James H. Copping	Herbert A. Percival
0E1431	Deed	May 5 1908	Herbert A. Percival	James E. Wilson
101458	Deed	Jan 11 1911	James E. Wilson	Harriet P. Hill
144820	Deed	Feb 28 1919	Harriet P. Hill	Mary A. Fraser

(4)

ENVIRONMENTAL SEARCH

INSTRUMENT #	TYPE	DATE	VENDOR	PURCHASER
321165	Deed	May 10 1954	John R. Tolmie	James Franceschini
359927	Deed	June 6 1957	James Franceschini	Mount Royal Paving & Supplies Ltd.
12033	Agmt	July 24 1968	Mount Royal Paving & Supplies Ltd.	Trancon Limited
546073	Deed	July 31 1968	Trancon Limited	Alan J. O'Hara
559275	Deed	May 30 1969	Alan J. O'Hara	Vorcan Tool Company Limited
620817	Deed	Oct 27 1972	Vorcan Tool Company Limited	Shenkman Corporation Ltd.
NS138839	Deed	Dec 16 1981	Shenkman Corporation Ltd.	Bary Courville (Current owner)
* Legal Description is:			Lots 7, 10, 13, 16 & 19, Plan 190, City of Ottawa	
PIN 04207-0369.				
* See the following pages for other chains of title.				

ENVIRONMENTAL SEARCH

INSTRUMENT #	TYPE	DATE	VENDOR	PURCHASER
* See Pages 1, 2 & 3 up to Instrument no. 205702 for the previous owners of the chain of title described below.				
205703	Deed	Oct 22 1931	William A. Pinard	Jules Coucke (Tot 10)
229391	Deed	Oct 11 1939	Jules Coucke	Moise Coucke
242987	Deed	2 194	Moise Coucke	Sydney Pinard
258816	Deed	May 23 1946	Sydney Pinard	Harold Conlin
277405	Deed	May 27 1949	Harold Conlin	Bernard Poitras
565961	Deed	Oct 3 1969	Bernard Poitras	Vorcan Tool Company Limited
* See Instrument no's 620817 & NS 138839 for the subsequent owners of this chain of title.				

6

ENVIRONMENTAL SEARCH

INSTRUMENT #	TYPE	DATE	VENDOR	PURCHASER
* See Page 1 up to Instrument no. NP17194 for the previous owners of the chain of title described below.				
OE926	Quit Claim Deed	Oct 6 1903	Thomas W. McDermott	Robert P. Robinson (Total 38/6)
204950	Tax Deed	Aug 31 1931	City of Ottawa (Unpaid taxes)	City of Ottawa
262507	Deed	Dec 12 1946	City of Ottawa	Marion Z. Hayley
509026	Deed	Mar 10 1966	Marion Z. Hayley	Bernard Poitras Joyce Poitras
565961	Deed	Oct 3 1969	Bernard Poitras Joyce Poitras	Vorcan Tool Company Limited
* See Instrument no's 620817 & NS138839 on Page 4 for the subsequent owners of this chain of title.				

ENVIRONMENTAL SEARCH

INSTRUMENT #	TYPE	DATE	VENDOR	PURCHASER
Note - See Pages 182 up to Instrument no. 051244 for the previous owners of the chain of title described below.				
149613	Deed	Feb 5 1920	Herbert A. Percival	James Low Charles Low (Jointly)
190868	Tax Deed	Jan 6 1928	City of Ottawa (Unpaid taxes)	City of Ottawa
280961	Deed	Dec 6 1949	City of Ottawa	William Hayley
451340	Deed	Oct 26 1962	William Hayley	Harry Hayley & Sons Ltd.
510037	Deed	May 19 1966	Estate of Harry Hayley & Sons Ltd (Bankrupt)	Gerald Poitras Joyce Poitras
565961	Deed	Oct 27 1972	Gerald Poitras Joyce Poitras	Vancouver Tool Company Limited
* See Instrument no's 620817 & N5138839 on Page 4 for the subsequent owners of this chain of title. Sept 10/08				



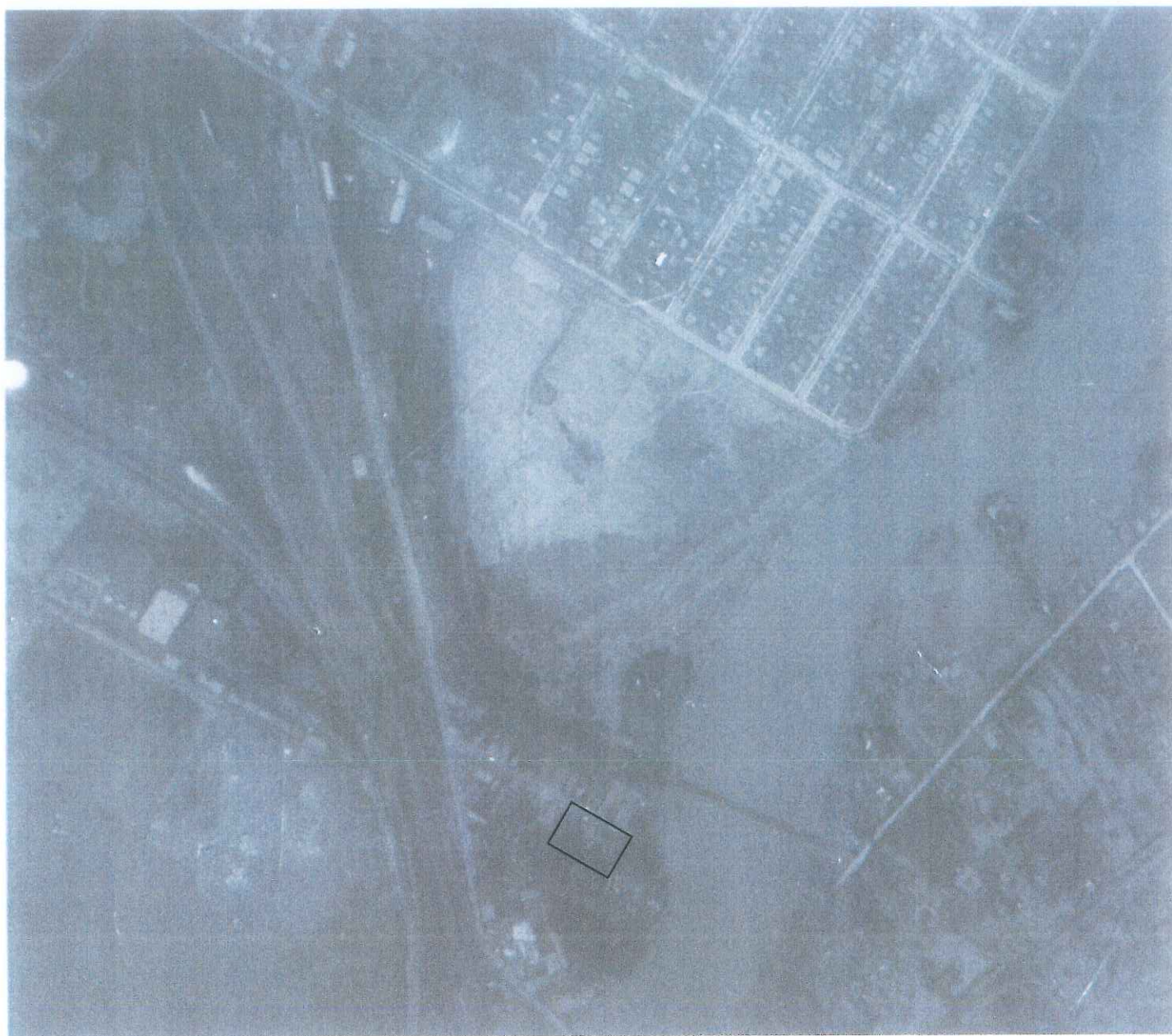
September 26, 2008

...080675

Mr. Gary Courville

ATTACHMENT B
AIR PHOTOGRAPHS

AIR PHOTOGRAPH



1947



Kollaard Associates
Engineers

Project No. 080675

Date September 2008

AIR PHOTOGRAPH



1954



Kollaard Associates
Engineers

Project No. 080675

Date September 2008

AIR PHOTOGRAPH



1960



Kollaard Associates
Engineers

Project No. 080675

Date September 2008

AIR PHOTOGRAPH



1973



Kollaard Associates
Engineers

Project No. 080675

Date September 2008

AIR PHOTOGRAPH



1983

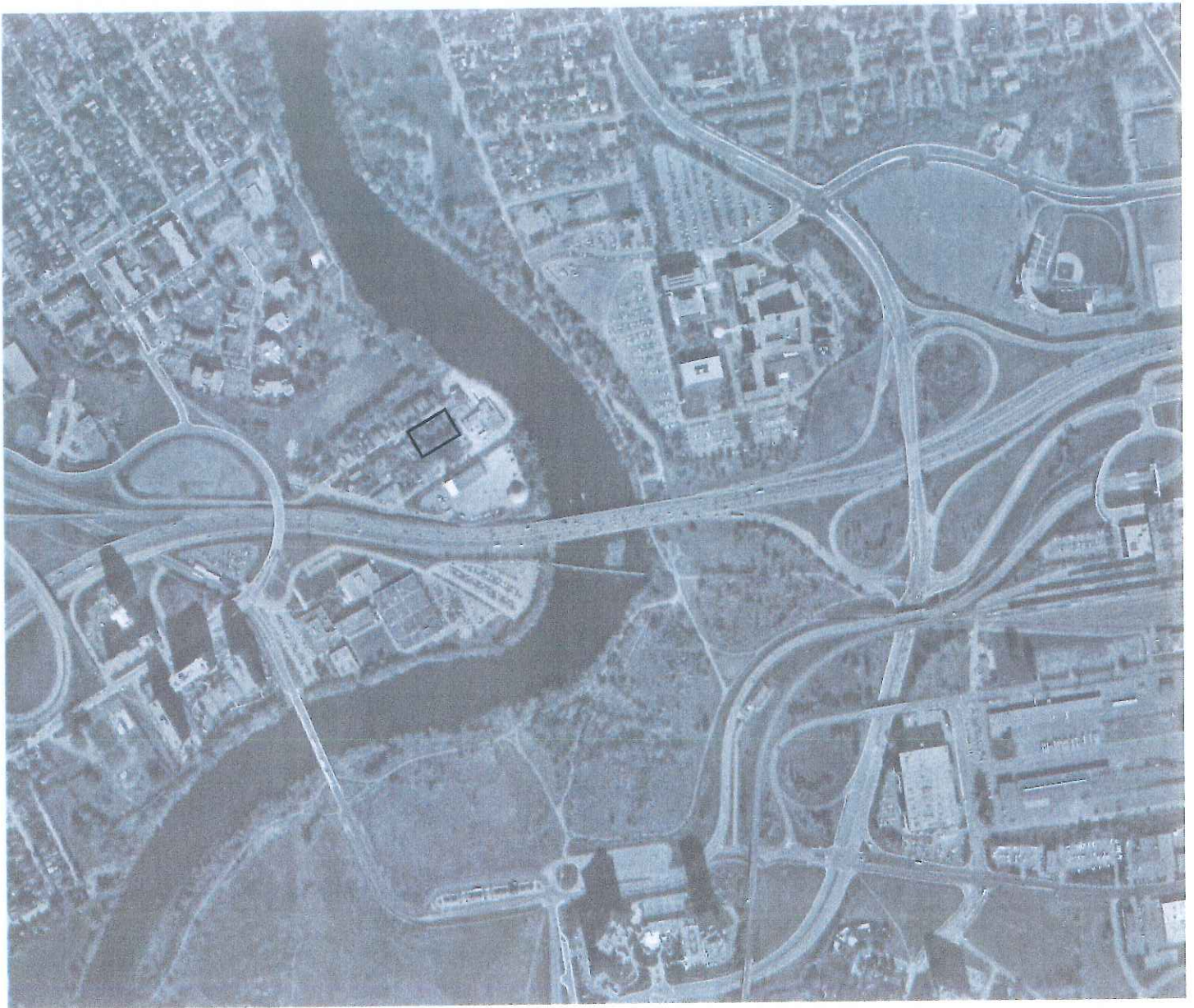


Kollaard Associates
Engineers

Project No. 080675

Date September 2008

AIR PHOTOGRAPH



1994



Kollaard Associates
Engineers

Project No. 080675

Date September 2008

AIR PHOTOGRAPH



2002

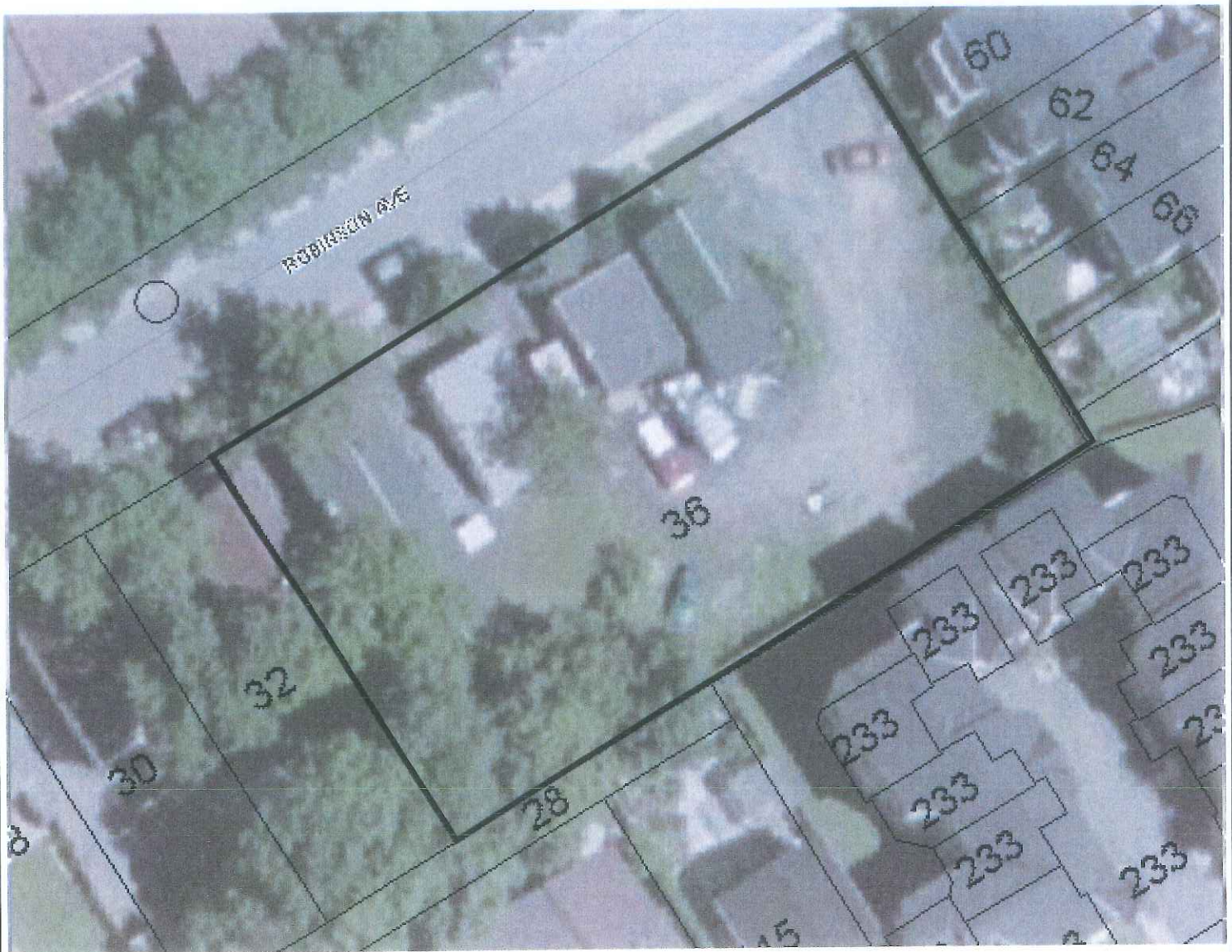


Kollaard Associates
Engineers

Project No. 080675

Date September 2008

AIR PHOTOGRAPH



2005



Kollaard Associates
Engineers

Project No. 080675

Date September 2008

AIR PHOTOGRAPH



2008



Kollaard Associates
Engineers

Project No. 080675

Date September 2008



September 26, 2008

...080675

Mr. Gary Courville

ATTACHMENT C

ONTARIO MINISTRY OF THE ENVIRONMENT CORRESPONDENCE



Kollaard Associates

Engineers

215 Sanders Street, Unit 1
P.O. Box 189
Kemptville, Ontario K0G 1J0

Civil • Geotechnical •
Structural • Environmental •
Industrial Health & Safety

(613) 860-0923

FAX: (613) 258-0475

Kollaard File # 080675 Page 1

September 8, 2008

Ontario Ministry of the Environment
2430 Don Reid Drive
Ottawa, Ontario
K1H 1E1

Attention: Abatement Officer

Re: 36, 38, 40, 42 AND 44 ROBINSON AVENUE
CITY OF OTTAWA, ONTARIO
LOTS 7, 10, 13, 16 AND 19, PLAN 190
LOT G, CONCESSION "D" (RIDEAU FRONT)
FORMER TOWNSHIP OF NEPEAN

Dear Sirs/Madam:

We have been retained by Mr. Gary Courville to carry out a Phase I ESA for the above noted site. Accordingly, we would be pleased if you would provide us with information concerning any historical or existing incidents at or in the vicinity of the above site on file with the Ontario Ministry of the Environment.

Yours truly,
KOLLAARD ASSOCIATES, INC.

D. M. Tataryn, B.E.S.

Attachments: Air Photograph
City of Ottawa – Property Information
Legal Survey



Professional Engineers
Ontario

Authorized by the Association of Professional Engineers
of Ontario to offer professional engineering services.

RECEIVED SEP 22 2008

Ministry of the Environment

2430 Don Reid Drive
Ottawa ON K1H 1E1

Tel: (613) 521-3450
Fax: (613) 521-5437

Ministère de l'Environnement

2430, rue Don Reid
Ottawa ON K1H 1E1

Tél.: (613) 521-3450
Téléc.: (613) 521-5437



OTT File No: **160**

**INDEX REVIEW REPORT
COMMERCIAL/INDUSTRIAL/AGRICULTURAL**

Attention: D. M. Tataryn Kollaard Associates	Your File: 080675 Date Received: September 11, 2008
---	--

PROPERTY OWNER AND LOCATION

Present Owner:		
Past Owners:		
Location:	Municipality:	Nepean (Ottawa)
	Address:	26, 38, 40, 42, 44 Robinson
	Lot	Concession

INDEX OF NAMES FOR ORDERS

We have searched the <i>Ottawa</i> District Index Record of Active Orders under the Environmental Protection Act (EPA), Ontario Water Resources Act (OWRA) and the Pesticides Act (PA) issued to: and the following information has been found:	
<input checked="checked" type="checkbox"/>	Check here if no Active Orders are outstanding
Date of Search: September 26, 2008	

*****PLEASE NOTE: There are files in the Ottawa District Office which may be of interest to you and this information should be requested under the Freedom of Information Act.*****

INDEX OF NAMES FOR APPROVALS

We have requested a search of the Index Record of names of all persons to whom approvals have been issued, maintained by the Director, Approvals Branch and the Regional Director, *Eastern Region*, and the District Manager, *Ottawa District*, under Section 19 EPA and Section 13 OWRA and the following information has been provided :

<u>Type</u>	<u>Number</u>	<u>Issued To</u>	<u>Issue Date</u>
Section 9 EPA			
Section 39 EPA			
Section 52 OWRA			
Section 53 OWRA			
Other			
<input checked="" type="checkbox"/> Check here if no Approvals have been issued.			
Date of Search: September 18, 2008			

Please Note:

- 1) The information provided above is based solely on the name(s) of the present and past owners provided by you.
- 2) The Index Record of Names to whom approvals have been issued, maintained by the Regional Director and District Manager, has been searched back to 1993.
- 3) The Index Record of Names to whom approvals have been issued, maintained by the Director of Environmental Assessment and Approvals, has been searched back to 1985.
- 4) If an inspection of the Orders and/or Approvals identified is required please contact this office.
- 5) A search of our records does NOT indicate whether there are:
 - other uses for which an approval may have been required, nor
 - other uses on the property or in the vicinity that may affect the suitability of the property, for the use proposed to be made of it.If a comprehensive knowledge of the property and the nearby lands and their environmental condition is required, you must examine them and other relevant records yourself, with the aid of a qualified person, if needed.
- 6) Please advise your colleagues that responses to requests for searches always take some time. As a result MOE may not be able to meet deadlines imposed by other parties on real estate and other transactions.

Signature: 

Contact Name: Johanne Veilleux

Title: Administrative Assistant

Address: Ministry of the Environment
2430 Don Reid Drive
Ottawa, ON K1H 1E1

Phone: (613) 521-3450

Date: September 26, 2008



PROPERTY INFORMATION
INFORMATION SUR L'IMMOBILIER

36 ROBINSON AVE

PIN: 042070369

LEGAL DESCRIPTION /
DESCRIPTION OFFICIELLE

PLAN 190 LOT 19

PROPERTY AREA - ft² /
SUPERFICIE pi²:

3960.00

FRONTAGE - ft /
FAÇADE - pi:

36.00

DEPTH - ft /
PROFONDEUR - pi :

110.00

WARD NUMBER /
NUMÉRO DU QUARTIER

12

WARD NAME /
NOM DU QUARTIER

RIDEAU-VANIER

COUNCILLOR NAME /
NOM DU CONSEILLER - (ÈRE)

Georges Bedard

OLD WARD NUMBER /
ANCIEN NUMÉRO DU QUARTIER

WARD 12

WASTE COLLECTION PICK-UP DAY AND ZONE /
JOUR ET ZONE DE LA COLLECTE DES ORDURES

WEDNESDAY - Cal. A



September 26, 2008

...080675

Mr. Gary Courville

ATTACHMENT D
FORMER LANDFILL SITE LOCATIONS



LEGEND

- Waste Site Footprint and Identification No. - City-Owned Site
- Waste Site Footprint and Identification No. - Jointly-Owned Site (City and Other)
- Waste Site Footprint and Identification No. - Non-City Owned Site
- Properties associated with sites whose location was determined with lesser degree of certainty (i.e., verbal confirmation or historical reference)
- Water Body
- Roadway
- Transitway

NOTE

The sites whose Identification Number is italicized in bold are those for which the footprint / location was determined with a lesser degree of certainty (i.e., through verbal confirmation or historical reference).

REFERENCE

Datum: NAD 83 Projection: MTM Zone 09



0 0.5 1
Kilometres
1:60,000



PROJECT		Old Landfill Management Strategy Phase 1 Identification of Sites	
TITLE		Urban Waste Site Footprints and/or Associated Properties	
PROJECT NO.		101-2725-020	SCALE AS SHOWN
DATE		28 JUN 2004	REV 0
DESIGNED BY		GIS	28 JUN 2004
CHECKED BY		MD	28 JUN 2004
REVIEWED BY		BLJ	28 JUN 2004



FIGURE 3

Appendix C

Ecolog ERIS Site Database Search



DATABASE REPORT

Project Property: *TC United Group-Phase I Environmental
Site Assessment
36 Robinson Avenue
Ottawa ON K1N 8N9
11186719-E1*

Project No: *11186719-E1*

Report Type: *Standard Report*

Order No: *20181119144*

Requested by: *GHD Ltd.*

Date Completed: *November 23, 2018*

**Environmental Risk
Information Services**
A division of Glacier Media Inc.
P: 1.866.517.5204
E: info@erisinfo.com

www.erisinfo.com

Table of Contents

Table of Contents.....	2
Executive Summary.....	3
Executive Summary: Report Summary.....	4
Executive Summary: Site Report Summary - Project Property.....	6
Executive Summary: Site Report Summary - Surrounding Properties.....	7
Executive Summary: Summary By Data Source.....	13
Map.....	22
Aerial.....	23
Topographic Map.....	24
Detail Report.....	25
Unplottable Summary.....	91
Unplottable Report.....	95
Appendix: Database Descriptions.....	121
Definitions.....	130

Notice: IMPORTANT LIMITATIONS and YOUR LIABILITY

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

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Executive Summary

Property Information:

Project Property: *TC United Group-Phase I Environmental Site Assessment
36 Robinson Avenue Ottawa ON K1N 8N9*

Project No: *11186719-E1*

Coordinates:

Latitude: *45.418329*
Longitude: *-75.666232*
UTM Northing: *5,029,639.05*
UTM Easting: *447,874.27*
UTM Zone: *UTM Zone 18T*

Elevation: *200 FT
60.91 M*

Order Information:

Order No: *20181119144*
Date Requested: *November 19, 2018*
Requested by: *GHD Ltd.*
Report Type: *Standard Report*

Historical/Products:

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Within 0.25 km	Total
AAGR	Abandoned Aggregate Inventory	Y	0	0	0
AGR	Aggregate Inventory	Y	0	0	0
AMIS	Abandoned Mine Information System	Y	0	0	0
ANDR	Anderson's Waste Disposal Sites	Y	0	0	0
AUWR	Automobile Wrecking & Supplies	Y	0	0	0
BORE	Borehole	Y	0	14	14
CA	Certificates of Approval	Y	0	6	6
CFOT	Commercial Fuel Oil Tanks	Y	0	0	0
CHEM	Chemical Register	Y	0	0	0
CNG	Compressed Natural Gas Stations	Y	0	0	0
COAL	Inventory of Coal Gasification Plants and Coal Tar Sites	Y	0	0	0
CONV	Compliance and Convictions	Y	0	0	0
CPU	Certificates of Property Use	Y	0	0	0
DRL	Drill Hole Database	Y	0	0	0
DRYCLEANERS	Dry Cleaning Facilities	Y	0	0	0
EASR	Environmental Activity and Sector Registry	Y	0	0	0
EBR	Environmental Registry	Y	0	1	1
ECA	Environmental Compliance Approval	Y	0	3	3
EEM	Environmental Effects Monitoring	Y	0	0	0
EHS	ERIS Historical Searches	Y	1	11	12
EIIS	Environmental Issues Inventory System	Y	0	0	0
EMHE	Emergency Management Historical Event	Y	0	0	0
EXP	List of TSSA Expired Facilities	Y	0	0	0
FCON	Federal Convictions	Y	0	0	0
FCS	Contaminated Sites on Federal Land	Y	0	0	0
FOFT	Fisheries & Oceans Fuel Tanks	Y	0	0	0
FST	Fuel Storage Tank	Y	0	0	0
FSTH	Fuel Storage Tank - Historic	Y	0	0	0
GEN	Ontario Regulation 347 Waste Generators Summary	Y	0	11	11
GHG	Greenhouse Gas Emissions from Large Facilities	Y	0	0	0
HINC	TSSA Historic Incidents	Y	0	1	1
IAFT	Indian & Northern Affairs Fuel Tanks	Y	0	0	0
INC	TSSA Incidents	Y	0	1	1
LIMO	Landfill Inventory Management Ontario	Y	0	0	0
MINE	Canadian Mine Locations	Y	0	0	0
MISA PENALTY	Environmental Penalty Annual Report	Y	0	0	0

Database	Name	Searched	Project Property	Within 0.25 km	Total
MNR	Mineral Occurrences	Y	0	0	0
NATE	National Analysis of Trends in Emergencies System (NATES)	Y	0	0	0
NCPL	Non-Compliance Reports	Y	0	0	0
NDFT	National Defense & Canadian Forces Fuel Tanks	Y	0	0	0
NDSP	National Defense & Canadian Forces Spills	Y	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Y	0	0	0
NEBI	National Energy Board Pipeline Incidents	Y	0	0	0
NEBW	National Energy Board Wells	Y	0	0	0
NEES	National Environmental Emergencies System (NEES)	Y	0	0	0
NPCB	National PCB Inventory	Y	0	0	0
NPRI	National Pollutant Release Inventory	Y	0	0	0
OGW	Oil and Gas Wells	Y	0	0	0
OOGW	Ontario Oil and Gas Wells	Y	0	0	0
OPCB	Inventory of PCB Storage Sites	Y	0	0	0
ORD	Orders	Y	0	0	0
PAP	Canadian Pulp and Paper	Y	0	0	0
PCFT	Parks Canada Fuel Storage Tanks	Y	0	0	0
PES	Pesticide Register	Y	0	1	1
PINC	TSSA Pipeline Incidents	Y	0	0	0
PRT	Private and Retail Fuel Storage Tanks	Y	0	0	0
PTTW	Permit to Take Water	Y	0	0	0
REC	Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0
RSC	Record of Site Condition	Y	0	0	0
RST	Retail Fuel Storage Tanks	Y	0	1	1
SCT	Scott's Manufacturing Directory	Y	0	0	0
SPL	Ontario Spills	Y	0	5	5
SRDS	Wastewater Discharger Registration Database	Y	0	0	0
TANK	Anderson's Storage Tanks	Y	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Y	0	0	0
VAR	TSSA Variances for Abandonment of Underground Storage Tanks	Y	0	0	0
WDS	Waste Disposal Sites - MOE CA Inventory	Y	0	0	0
WDSH	Waste Disposal Sites - MOE 1991 Historical Approval Inventory	Y	0	0	0
WWIS	Water Well Information System	Y	0	17	17
Total:			1	72	73

Executive Summary: Site Report Summary - Project Property

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist (m)</i>	<i>Elev diff (m)</i>	<i>Page Number</i>
1	EHS		36 Robinson Ave Ottawa ON K1N 8N9	E/23.6	0.00	25

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
<u>2</u>	SPL	UNKNOWN	PRIVATE HOUSE MR. BERNARD SEQUIN 28 ROBINSON AVE 613-235-4130(741-81210) OTTAWA CITY ON K1N 8N9	SW/36.3	0.00	<u>25</u>
<u>3</u>	ECA	The Regional Municipality of Ottawa-Carleton	Lees Avenue Ottawa ON	SSE/48.7	-0.03	<u>25</u>
<u>4</u>	EHS		29 Robinson Avenue Ottawa ON K1N 8N8	WNW/50.1	-0.73	<u>26</u>
<u>5</u>	BORE		ON	SSE/76.1	1.05	<u>26</u>
<u>6</u>	EHS		134 and 138 Robinson Avenue Ottawa ON K1N 8N8	SSW/76.4	1.05	<u>26</u>
<u>7</u>	BORE		ON	SE/79.6	-0.03	<u>27</u>
<u>8</u>	PES	ERIC WILLIAM BARCLAY O/A PEST CAUTION	301-20 ROBINSON AVE OTTAWA ON K1N8N9	SW/80.0	-0.03	<u>27</u>
<u>9</u>	WWIS		ON Well ID: 7233242	W/90.7	0.08	<u>27</u>
<u>10</u>	CA	Kelly's Auto Body (1984) Limited	23 Hurdman Road Ottawa ON K1N 8N7	SSW/99.9	1.05	<u>28</u>
<u>10</u>	SPL	Hydro Ottawa Limited	23 HURDMAN<UNOFFICIAL> Ottawa ON K1N 8N7	SSW/99.9	1.05	<u>28</u>
<u>11</u>	BORE		ON	SE/99.9	1.05	<u>29</u>
<u>12</u>	EHS		17&19 Robinson Avenue Ottawa ON K1N 8N8	W/100.5	0.75	<u>29</u>

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
<u>13</u>	BORE		ON	SE/101.0	-0.03	<u>30</u>
<u>14</u>	EBR	Kelly's Auto Body (1984) Limited	23 Hurdman Road Ottawa Ontario K1N 8N7 Ottawa ON	SSW/101.7	1.05	<u>30</u>
<u>14</u>	ECA	Kelly's Auto Body (1984) Limited	23 Hurdman Road Ottawa ON K1N 8N7	SSW/101.7	1.05	<u>30</u>
<u>15</u>	BORE		ON	SSE/102.2	0.97	<u>31</u>
<u>16</u>	WWIS		OTTAWA ON Well ID: 7292936	N/112.0	-2.79	<u>31</u>
<u>17</u>	WWIS		OTTAWA ON Well ID: 7292938	WNW/113.5	-0.42	<u>35</u>
<u>18</u>	HINC		13 ROBINSON AVENUE OTTAWA ON K1N 8N8	WSW/120.2	1.66	<u>38</u>
<u>19</u>	RST	CANADIAN TIRE PIT STOP	85 ROBINSON AVE OTTAWA ON K1N 8N8	E/121.5	-0.44	<u>38</u>
<u>20</u>	EHS		29 Hurdman Rd Ottawa ON K1N8N7	SE/123.9	0.22	<u>38</u>
<u>21</u>	CA	OTTAWA CITY-LEES AVE.	LEES AVE./HURDMAN RD./ROBINSON OTTAWA CITY ON	SSW/124.2	0.97	<u>38</u>
<u>22</u>	EHS		29 Hurdman Road Ottawa ON	E/129.6	-1.03	<u>39</u>
<u>22</u>	EHS		29 Hurdman Rd Ottawa ON K1N8N7	E/129.6	-1.03	<u>39</u>
<u>22</u>	GEN	OTTAWA, CITY OF	29 HURDMAN ROAD OTTAWA ON	E/129.6	-1.03	<u>39</u>

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
<u>22</u>	GEN	OTTAWA, CORPORATION OF THE CITY OF	29 HURDMAN ROAD OTTAWA ON	E/129.6	-1.03	<u>40</u>
<u>22</u>	GEN	OTTAWA, CORPORATION OF THE CITY OF	29 HURDMAN ROAD OTTAWA ON	E/129.6	-1.03	<u>40</u>
<u>22</u>	GEN	OTTAWA, CORPORATION OF THE CITY OF	29 HURDMAN ROAD OTTAWA ON	E/129.6	-1.03	<u>40</u>
<u>22</u>	GEN	OTTAWA, CORPORATION OF THE CITY OF	29 HURDMAN ROAD OTTAWA ON	E/129.6	-1.03	<u>41</u>
<u>22</u>	GEN	OTTAWA, CORPORATION OF THE CITY OF	29 HURDMAN ROAD OTTAWA ON	E/129.6	-1.03	<u>41</u>
<u>22</u>	GEN	OTTAWA, CORPORATION OF THE CITY OF	29 HURDMAN ROAD OTTAWA ON	E/129.6	-1.03	<u>41</u>
<u>22</u>	GEN	OTTAWA, CORPORATION OF THE CITY OF	29 HURDMAN ROAD OTTAWA ON K1G-5X5	E/129.6	-1.03	<u>42</u>
<u>22</u>	GEN	OTTAWA, CORPORATION OF THE CITY OF	29 HURDMAN ROAD OTTAWA ON K1G-5X5	E/129.6	-1.03	<u>42</u>
<u>22</u>	GEN	OTTAWA, CORPORATION OF THE CITY OF	29 HURDMAN ROAD OTTAWA ON K1G-5X5	E/129.6	-1.03	<u>43</u>
<u>22</u>	GEN	OTTAWA, CORPORATION OF THE CITY OF	29 HURDMAN ROAD OTTAWA ON K1G-5X5	E/129.6	-1.03	<u>43</u>
<u>22</u>	INC		29 Hurdman Road, Ottawa ON	E/129.6	-1.03	<u>43</u>
<u>22</u>	SPL	City of Ottawa	29 Hurdman Road Ottawa ON	E/129.6	-1.03	<u>44</u>
<u>22</u>	SPL	City of Ottawa	29 Hurdman Avenue Ottawa ON K1N 8N7	E/129.6	-1.03	<u>45</u>

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
<u>23</u>	WWIS		Ottawa ON Well ID: 7181836	SE/130.6	0.12	<u>45</u>
<u>24</u>	WWIS		Ottawa ON Well ID: 7181835	SE/145.5	0.22	<u>48</u>
<u>25</u>	WWIS		Ottawa ON Well ID: 7181834	SE/147.0	0.22	<u>51</u>
<u>26</u>	WWIS		Ottawa ON Well ID: 7181833	SE/151.5	0.22	<u>55</u>
<u>26</u>	WWIS		Ottawa ON Well ID: 7181837	SE/151.5	0.22	<u>58</u>
<u>27</u>	CA		9 Robinson Ave. Ottawa ON K1N 8N8	WSW/163.4	3.02	<u>61</u>
<u>27</u>	ECA	Pegasus Development Corporation	9 Robinson Ave. Ottawa ON K2G 1E8	WSW/163.4	3.02	<u>62</u>
<u>28</u>	SPL	PRIVATE OWNER	5-9 HURDMAN STREET MOTOR VEHICLE (OPERATING FLUID) OTTAWA CITY ON K1N 8N6	WSW/170.0	3.02	<u>62</u>
<u>29</u>	BORE		ON	SE/171.7	0.00	<u>62</u>
<u>30</u>	EHS		3 Hurdman Rd Ottawa ON K1N8N6	WNW/173.6	1.24	<u>63</u>
<u>30</u>	EHS		3 Hurdman Rd Ottawa ON K1N8N6	WNW/173.6	1.24	<u>63</u>
<u>31</u>	BORE		ON	ESE/175.4	-0.87	<u>63</u>
<u>32</u>	CA	DANBAR HOLDINGS (OTTAWA) LIMITED	ROBINSON AVE/HURDMAN RD. OTTAWA CITY ON	WSW/176.1	3.03	<u>64</u>

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist (m)</i>	<i>Elev Diff (m)</i>	<i>Page Number</i>
<u>33</u>	WWIS		Ottawa ON Well ID: 7293328	WNW/177.0	2.58	<u>64</u>
<u>34</u>	WWIS		OTTAWA ON Well ID: 7292937	NW/179.1	-1.03	<u>67</u>
<u>35</u>	WWIS		Ottawa ON Well ID: 7284721	WNW/207.0	2.64	<u>70</u>
<u>36</u>	WWIS		Ottawa ON Well ID: 7180700	SSW/210.4	0.97	<u>73</u>
<u>37</u>	WWIS		Ottawa ON Well ID: 7293327	WSW/213.9	4.27	<u>75</u>
<u>38</u>	WWIS		Ottawa ON Well ID: 7180694	S/220.3	0.97	<u>78</u>
<u>39</u>	WWIS		Ottawa ON Well ID: 7180695	S/225.8	0.97	<u>80</u>
<u>39</u>	WWIS		Ottawa ON Well ID: 7180869	S/225.8	0.97	<u>82</u>
<u>39</u>	WWIS		Ottawa ON Well ID: 7180703	S/225.8	0.97	<u>84</u>
<u>40</u>	BORE		ON	WSW/233.3	4.17	<u>86</u>
<u>41</u>	BORE		ON	SE/234.8	-8.03	<u>86</u>
<u>42</u>	EHS		Hwy 417 Ottawa ON	SE/235.8	-8.03	<u>87</u>
<u>43</u>	BORE		ON	WSW/241.4	3.94	<u>87</u>

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist (m)</i>	<i>Elev Diff (m)</i>	<i>Page Number</i>
44	EHS		310 Wiggins Pvt Ottawa ON K1N1B1	WNW/241.9	5.33	88
44	EHS		310 Wiggins Pvt Ottawa ON K1N1B1	WNW/241.9	5.33	88
45	CA	DANBAR HOLDINGS (OTTAWA) LIMITED	ROBINSON AVE/LEES AVE. OTTAWA CITY ON	WSW/242.8	3.94	88
45	CA	DANBAR HOLDINGS (OTTAWA) LIMITED	LEES AVE./ROBINSON AVE., CSO OTTAWA CITY ON	WSW/242.8	3.94	88
46	BORE		ON	SE/242.8	-1.21	89
47	BORE		ON	WSW/243.4	3.94	89
48	BORE		ON	W/244.5	5.11	89
49	BORE		ON	WSW/249.2	4.92	90

Executive Summary: Summary By Data Source

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2014 has found that there are 14 BORE site(s) within approximately 0.25 kilometers of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	ON	SSE	76.11	<u>5</u>
	ON	SE	99.94	<u>11</u>
	ON	SSE	102.23	<u>15</u>
	ON	SE	171.74	<u>29</u>
	ON	WSW	233.35	<u>40</u>
	ON	WSW	241.41	<u>43</u>
	ON	WSW	243.44	<u>47</u>
	ON	W	244.45	<u>48</u>
	ON	WSW	249.15	<u>49</u>

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	ON	SE	79.56	<u>7</u>
	ON	SE	100.98	<u>13</u>
	ON	ESE	175.41	<u>31</u>
	ON	SE	234.76	<u>41</u>
	ON	SE	242.84	<u>46</u>

CA - Certificates of Approval

A search of the CA database, dated 1985-Oct 30, 2011* has found that there are 6 CA site(s) within approximately 0.25 kilometers of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
Kelly's Auto Body (1984) Limited	23 Hurdman Road Ottawa ON K1N 8N7	SSW	99.87	<u>10</u>
OTTAWA CITY-LEES AVE.	LEES AVE./HURDMAN RD./ROBINSON OTTAWA CITY ON	SSW	124.17	<u>21</u>
	9 Robinson Ave. Ottawa ON K1N 8N8	WSW	163.43	<u>27</u>
DANBAR HOLDINGS (OTTAWA) LIMITED	ROBINSON AVE/HURDMAN RD. OTTAWA CITY ON	WSW	176.11	<u>32</u>
DANBAR HOLDINGS (OTTAWA) LIMITED	ROBINSON AVE/LEES AVE. OTTAWA CITY ON	WSW	242.81	<u>45</u>

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
DANBAR HOLDINGS (OTTAWA) LIMITED	LEES AVE./ROBINSON AVE., CSO OTTAWA CITY ON	WSW	242.81	45

EBR - Environmental Registry

A search of the EBR database, dated 1994-Jul 31, 2018 has found that there are 1 EBR site(s) within approximately 0.25 kilometers of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
Kelly's Auto Body (1984) Limited	23 Hurdman Road Ottawa Ontario K1N 8N7 Ottawa ON	SSW	101.74	14

ECA - Environmental Compliance Approval

A search of the ECA database, dated Oct 2011-Oct 31, 2018 has found that there are 3 ECA site(s) within approximately 0.25 kilometers of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
Kelly's Auto Body (1984) Limited	23 Hurdman Road Ottawa ON K1N 8N7	SSW	101.74	14
Pegasus Development Corporation	9 Robinson Ave. Ottawa ON K2G 1E8	WSW	163.43	27

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
The Regional Municipality of Ottawa-Carleton	Lees Avenue Ottawa ON	SSE	48.69	3

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Jul 31, 2018 has found that there are 12 EHS site(s) within approximately 0.25 kilometers of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	36 Robinson Ave Ottawa ON K1N 8N9	E	23.57	1

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	134 and 138 Robinson Avenue Ottawa ON K1N 8N8	SSW	76.41	<u>6</u>
	17&19 Robinson Avenue Ottawa ON K1N 8N8	W	100.51	<u>12</u>
	29 Hurdman Rd Ottawa ON K1N8N7	SE	123.94	<u>20</u>
	3 Hurdman Rd Ottawa ON K1N8N6	WNW	173.61	<u>30</u>
	3 Hurdman Rd Ottawa ON K1N8N6	WNW	173.61	<u>30</u>
	310 Wiggins Pvt Ottawa ON K1N1B1	WNW	241.94	<u>44</u>
	310 Wiggins Pvt Ottawa ON K1N1B1	WNW	241.94	<u>44</u>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	29 Robinson Avenue Ottawa ON K1N 8N8	WNW	50.07	<u>4</u>
	29 Hurdman Road Ottawa ON	E	129.61	<u>22</u>
	29 Hurdman Rd Ottawa ON K1N8N7	E	129.61	<u>22</u>
	Hwy 417 Ottawa ON	SE	235.83	<u>42</u>

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-June 30, 2018 has found that there are 11 GEN site(s) within approximately 0.25 kilometers of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
OTTAWA, CORPORATION OF THE CITY OF	29 HURDMAN ROAD OTTAWA ON	E	129.61	<u>22</u>
OTTAWA, CORPORATION OF THE CITY OF	29 HURDMAN ROAD OTTAWA ON K1G-5X5	E	129.61	<u>22</u>
OTTAWA, CORPORATION OF THE CITY OF	29 HURDMAN ROAD OTTAWA ON K1G-5X5	E	129.61	<u>22</u>
OTTAWA, CORPORATION OF THE CITY OF	29 HURDMAN ROAD OTTAWA ON K1G-5X5	E	129.61	<u>22</u>
OTTAWA, CORPORATION OF THE CITY OF	29 HURDMAN ROAD OTTAWA ON K1G-5X5	E	129.61	<u>22</u>
OTTAWA, CORPORATION OF THE CITY OF	29 HURDMAN ROAD OTTAWA ON	E	129.61	<u>22</u>
OTTAWA, CORPORATION OF THE CITY OF	29 HURDMAN ROAD OTTAWA ON	E	129.61	<u>22</u>
OTTAWA, CORPORATION OF THE CITY OF	29 HURDMAN ROAD OTTAWA ON	E	129.61	<u>22</u>
OTTAWA, CITY OF	29 HURDMAN ROAD OTTAWA ON	E	129.61	<u>22</u>
OTTAWA, CORPORATION OF THE CITY OF	29 HURDMAN ROAD OTTAWA ON	E	129.61	<u>22</u>
OTTAWA, CORPORATION OF THE CITY OF	29 HURDMAN ROAD OTTAWA ON	E	129.61	<u>22</u>

HINC - TSSA Historic Incidents

A search of the HINC database, dated 2006-June 2009* has found that there are 1 HINC site(s) within approximately 0.25 kilometers of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	13 ROBINSON AVENUE OTTAWA ON K1N 8N8	WSW	120.25	<u>18</u>

INC - TSSA Incidents

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

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	29 Hurdman Road, Ottawa ON	E	129.61	<u>22</u>

PES - Pesticide Register

A search of the PES database, dated 1988-Mar 2018 has found that there are 1 PES site(s) within approximately 0.25 kilometers of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
ERIC WILLIAM BARCLAY O/A PEST CAUTION	301-20 ROBINSON AVE OTTAWA ON K1N8N9	SW	79.98	<u>8</u>

RST - Retail Fuel Storage Tanks

A search of the RST database, dated 1999-Jul 31, 2018 has found that there are 1 RST site(s) within approximately 0.25 kilometers of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
CANADIAN TIRE PIT STOP	85 ROBINSON AVE OTTAWA ON K1N 8N8	E	121.54	<u>19</u>

SPL - Ontario Spills

A search of the SPL database, dated 1988-Jul 2018 has found that there are 5 SPL site(s) within approximately 0.25 kilometers of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
UNKNOWN	PRIVATE HOUSE MR. BERNARD SEQUIN 28 ROBINSON AVE 613-235- 4130(741-81210) OTTAWA CITY ON K1N 8N9	SW	36.26	<u>2</u>

Hydro Ottawa Limited	23 HURDMAN<UNOFFICIAL> Ottawa ON K1N 8N7	SSW	99.87	<u>10</u>
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PRIVATE OWNER	5-9 HURDMAN STREET MOTOR VEHICLE (OPERATING FLUID) OTTAWA CITY ON K1N 8N6	WSW	169.97	<u>28</u>
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<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
City of Ottawa	29 Hurdman Avenue Ottawa ON K1N 8N7	E	129.61	<u>22</u>

City of Ottawa	29 Hurdman Road Ottawa ON	E	129.61	<u>22</u>
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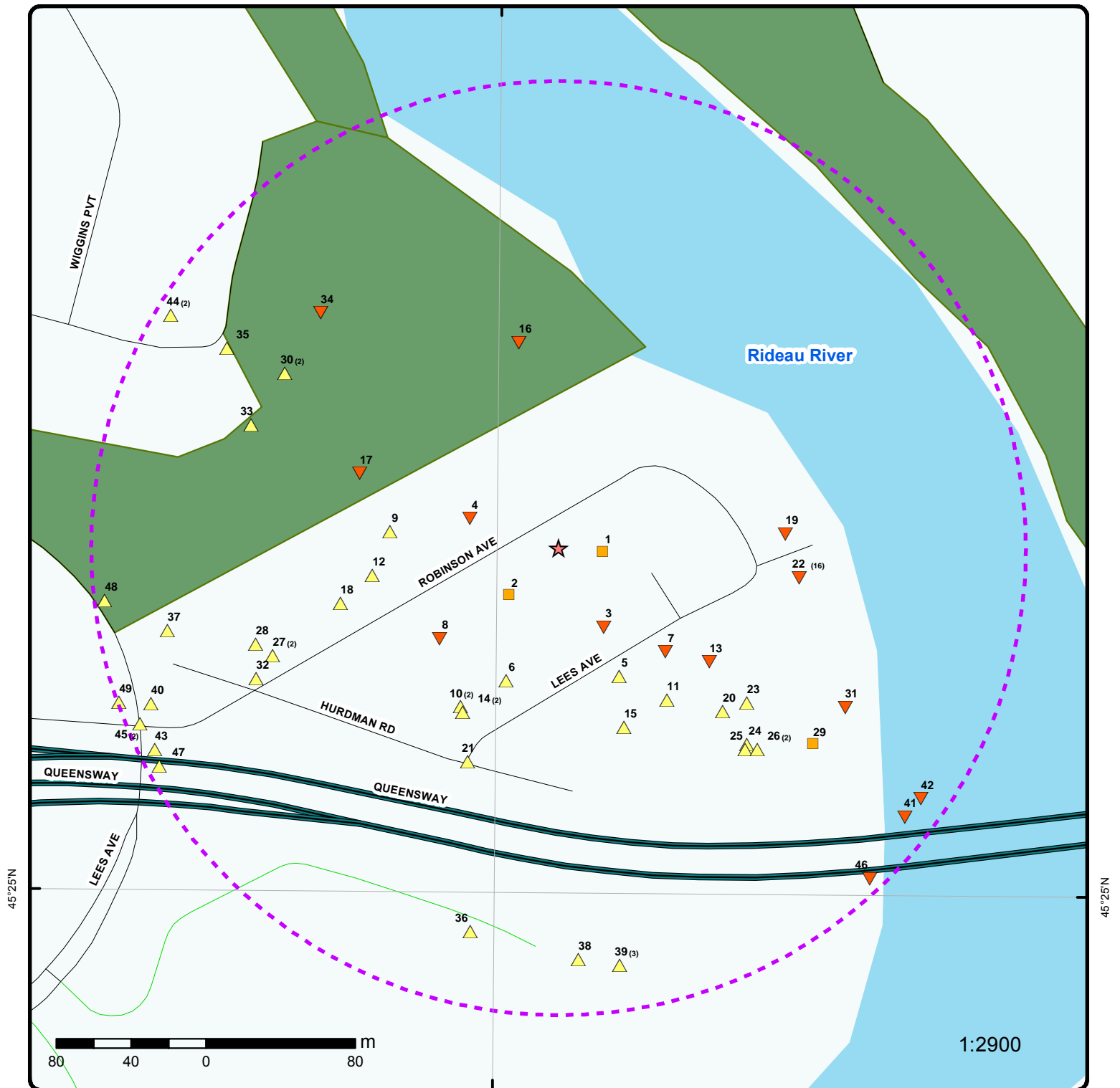
WWIS - Water Well Information System

A search of the WWIS database, dated Dec 31, 2017 has found that there are 17 WWIS site(s) within approximately 0.25 kilometers of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	ON <i>Well ID: 7233242</i>	W	90.71	<u>9</u>
	Ottawa ON <i>Well ID: 7181836</i>	SE	130.55	<u>23</u>
	Ottawa ON <i>Well ID: 7181835</i>	SE	145.54	<u>24</u>
	Ottawa ON <i>Well ID: 7181834</i>	SE	147.04	<u>25</u>

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	Ottawa ON <i>Well ID: 7181833</i>	SE	151.53	<u>26</u>
	Ottawa ON <i>Well ID: 7181837</i>	SE	151.53	<u>26</u>
	Ottawa ON <i>Well ID: 7293328</i>	WNW	177.01	<u>33</u>
	Ottawa ON <i>Well ID: 7284721</i>	WNW	207.03	<u>35</u>
	Ottawa ON <i>Well ID: 7180700</i>	SSW	210.43	<u>36</u>
	Ottawa ON <i>Well ID: 7293327</i>	WSW	213.85	<u>37</u>
	Ottawa ON <i>Well ID: 7180694</i>	S	220.31	<u>38</u>
	Ottawa ON <i>Well ID: 7180695</i>	S	225.77	<u>39</u>
	Ottawa ON <i>Well ID: 7180869</i>	S	225.77	<u>39</u>
	Ottawa ON <i>Well ID: 7180703</i>	S	225.77	<u>39</u>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	OTTAWA ON <i>Well ID: 7292936</i>	N	111.99	<u>16</u>

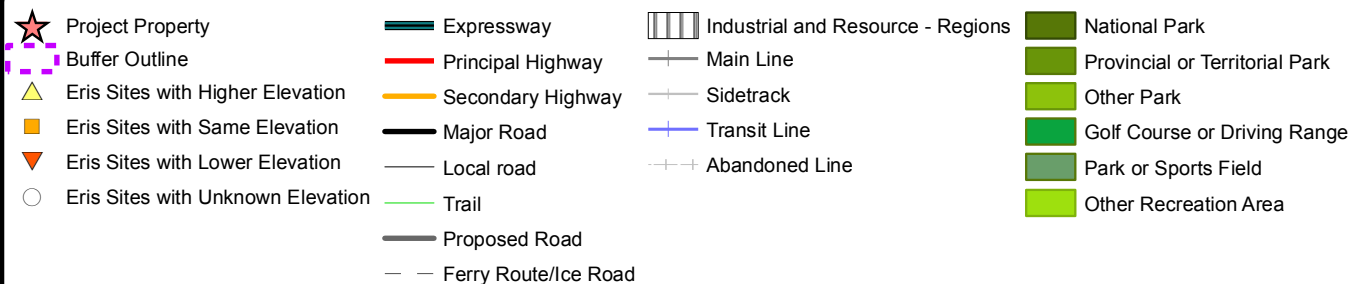
OTTAWA ON	WNW	113.53	17
Well ID: 7292938			
OTTAWA ON	NW	179.05	34
Well ID: 7292937			



Map : 0.25 Kilometer Radius

Order No: 20181119144

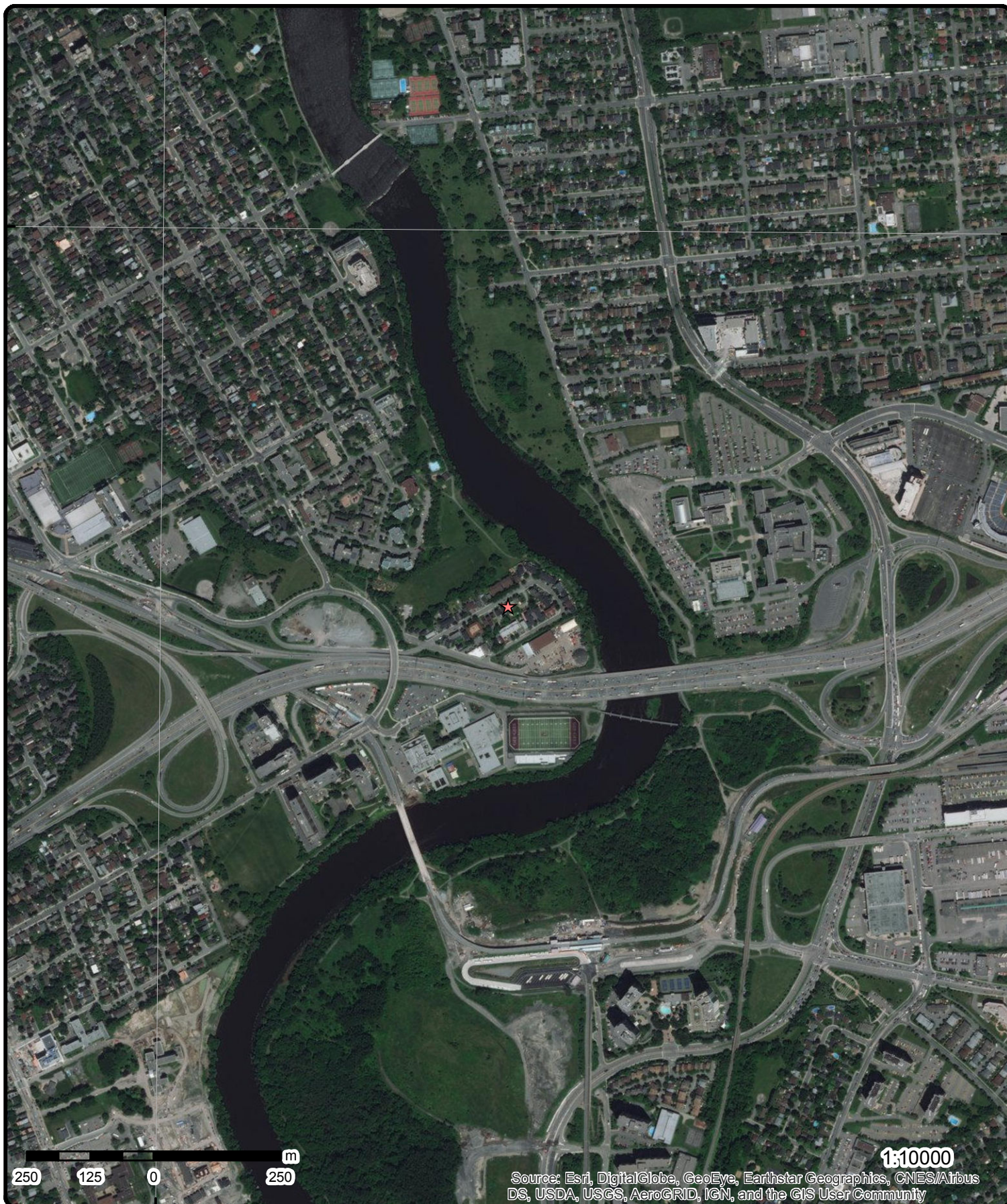
Address: 36 Robinson Avenue, Ottawa, ON, K1N 8N9



75°40'30"W

45°25'30"N

45°25'30"N



Aerial (2017)

Address: 36 Robinson Avenue, Ottawa, ON, K1N 8N9

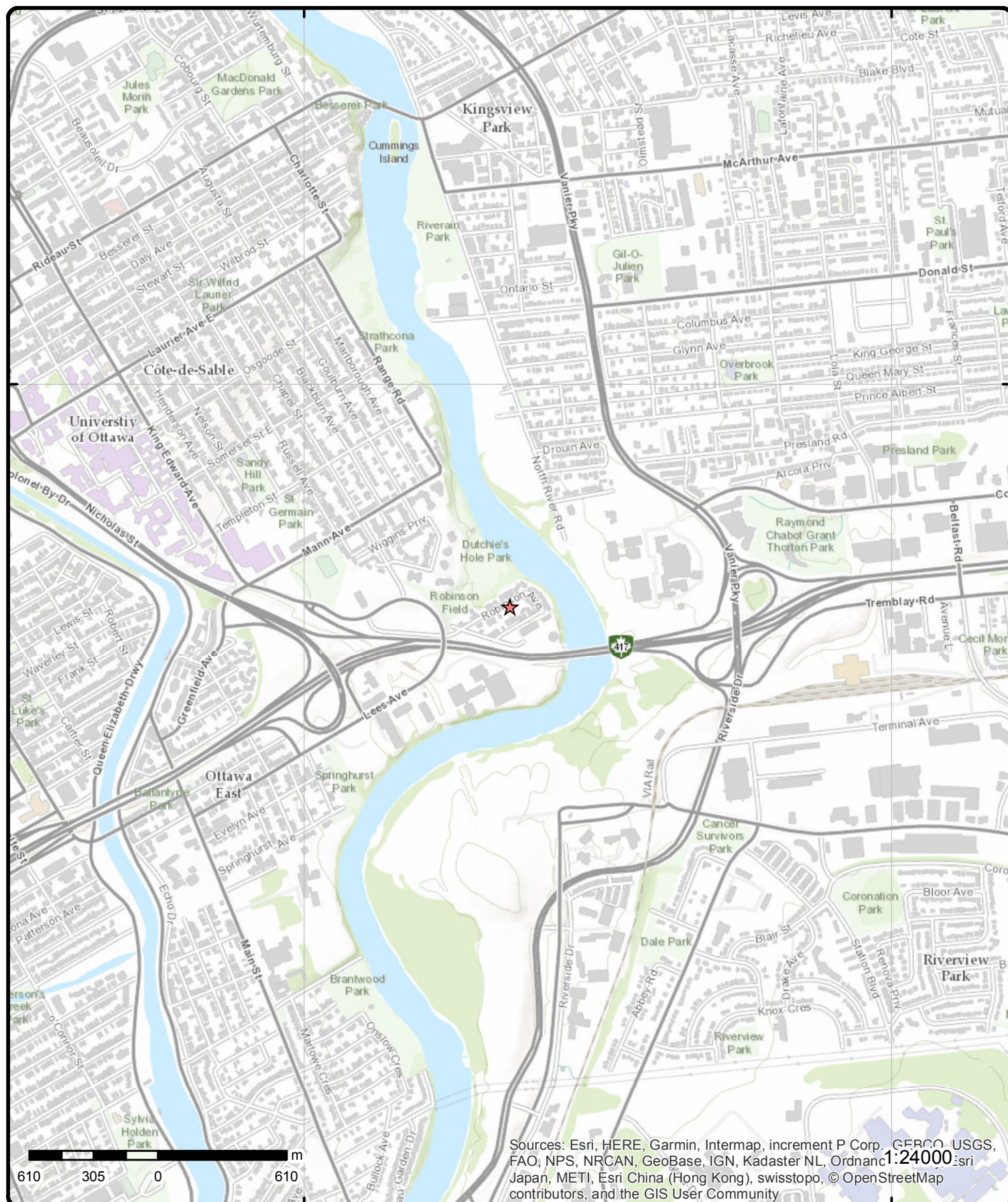
Source: ESRI World Imagery

Order No: 20181119144

ERIS
ENVIRONMENTAL RISK INFORMATION SERVICES



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Topographic Map

Address: 36 Robinson Avenue, Ottawa, ON, K1N 8N9

Source: ESRI World Topographic Map

Order No: 20181119144



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Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	1 of 1	E/23.6	60.9 / 0.00	36 Robinson Ave Ottawa ON K1N 8N9	EHS
Order No: 20121010007 Status: C Report Type: Standard Report Date Received: 10-OCT-12 Report Date: 18-OCT-12 Client Prov/State: ON Previous Site Name: Nearest Intersection: Additional Info Ordered:		Municipality: Ottawa Lot/Building Size: 0.18 hectare X: -75.665931 Y: 45.418317 Search Radius (km): .25			
2	1 of 1	SW/36.3	60.9 / 0.00	UNKNOWN PRIVATE HOUSE MR. BERNARD SEQUIN 28 ROBINSON AVE 613-235-4130(741-81210) OTTAWA CITY ON K1N 8N9	SPL
Ref No: 1788 Site No: Incident Dt: 3/26/1988 Year: Incident Cause: ABOVE-GROUND TANK LEAK Incident Event: Contaminant Code: Contaminant Name: Contaminant Limit 1: Contam Limit Freq 1: Contaminant UN No 1: Contaminant Qty: Environment Impact: POSSIBLE Nature of Impact: SOIL CONTAMINATION Receiving Medium: LAND Receiving Env: Health/Env Conseq: MOE Response: Dt MOE Arvl on Scn: MOE Reported Dt: 3/29/1988 Dt Document Closed: Agency Involved: SAC Action Class: Incident Reason: CORROSION Incident Summary: PRIVATE HOUSE- NOTICED FURNACE OIL ENTERING THE BASEMENT.		Discharger Report: Material Group: Client Type: Sector Type: Source Type: Nearest Watercourse: Site Name: Site Address: Site District Office: Site County/District: Site Postal Code: Site Region: Site Municipality: 20101 Site Lot: Site Conc: Northing: Easting: Site Geo Ref Accu: Site Geo Ref Meth: Site Map Datum:			
3	1 of 1	SSE/48.7	60.9 / -0.03	The Regional Municipality of Ottawa-Carleton Lees Avenue Ottawa ON	ECA
Approval No: 8377-4MUJUZ Approval Date: 2000-08-08 Status: Approved Record Type: ECA		SWP Area Name: Rideau Valley MOE District: Ottawa City: Longitude: -75.66592			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Link Source: Approval Type: Project Type: Address: Full Address: Full PDF Link:	IDS			Latitude: 45.41795 ECA-Municipal and Private Water Works Municipal and Private Water Works Lees Avenue	
4	1 of 1	WNW/50.1	60.2 / -0.73	29 Robinson Avenue Ottawa ON K1N 8N8	EHS
Order No: Status: Report Type: Date Received: Report Date: Client Prov/State: Previous Site Name: Nearest Intersection: Additional Info Ordered:	20180605194 C Standard Report 05-JUN-18 12-JUN-18 ON Fire Insur. Maps and/or Site Plans; City Directory			Municipality: Lot/Building Size: X: Y: Search Radius (km):	
				-75.666841 45.418467 .25	
5	1 of 1	SSE/76.1	62.0 / 1.05	ON	BORE
Borehole ID: Use: Drill Method: Easting: Location Accuracy: Elev. Reliability Note: Total Depth m: Township: Lot: Completion Date: Primary Water Use:	802678 Geotechnical/Geological Investigation Hollow stem auger 447906.7 6.7 11-FEB-1982			Type: Status: UTM Zone: Northing: Orig. Ground Elev m: DEM Ground Elev m: Primary Name: Concession: Municipality: Static Water Level: Sec. Water Use:	Borehole 18 5029570.15 61.2 59.5 BH 2 4.4
--Details--					
Stratum ID: Bottom Depth(m):	218573092 0.3			Top Depth(m): Stratum Desc:	0.0 Dark Grey Fill-Misc sand silt With: Gr W Brk Frag
Stratum ID: Bottom Depth(m):	218573093 0.5			Top Depth(m): Stratum Desc:	0.3 Concrete
Stratum ID: Bottom Depth(m):	218573094 1.2			Top Depth(m): Stratum Desc:	0.5 Dark Brown Fill-Misc sand silt With: Gr W Brk Frag
Stratum ID: Bottom Depth(m):	218573095 1.4			Top Depth(m): Stratum Desc:	1.2 Brown sand silt With: Org M
Stratum ID: Bottom Depth(m):	218573096 6.7			Top Depth(m): Stratum Desc:	1.4 Dark Brown to Grey Compact to Loose Till sand silt With: Cl W Gr Occasional: Cob Occ Blds
6	1 of 1	SSW/76.4	62.0 / 1.05	134 and 138 Robinson Avenue Ottawa ON K1N 8N8	EHS
Order No: Status:	20180727204 C			Municipality: Lot/Building Size:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Report Type: Custom Report Date Received: 27-JUL-18 Report Date: 02-AUG-18 Client Prov/State: ON Previous Site Name: Nearest Intersection: Additional Info Ordered: Fire Insur. Maps and/or Site Plans; Title Searches; City Directory					
7	1 of 1	SE/79.6	60.9 / -0.03	ON	BORE
Borehole ID: 802680 Use: Geotechnical/Geological Investigation Drill Method: Hollow stem auger Easting: 447931.38 Location Accuracy: Elev. Reliability Note: Total Depth m: 12 Township: Lot: Completion Date: 11-FEB-1982 Primary Water Use:					
Type: Borehole Status: UTM Zone: 18 Northing: 5029583.69 Orig. Ground Elev m: 60.9 DEM Ground Elev m: 59.4 Primary Name: BH 3 Concession: Municipality: Static Water Level: 4.7 Sec. Water Use:					
--Details--					
Stratum ID: 218573104 Bottom Depth(m): 0.4 Stratum ID: 218573105 Bottom Depth(m): 0.5 Stratum ID: 218573106 Bottom Depth(m): 12.0					
Top Depth(m): 0.0 Stratum Desc: Dark Grey Cinder Ash Top Depth(m): 0.4 Stratum Desc: Brown Topsoil Silt Top Depth(m): 0.5 Stratum Desc: Dark Brown to Grey Compact to Loose Till sand silt With: Cl W Gr Occasional: Cob Occ Blds					
8	1 of 1	SW/80.0	60.9 / -0.03	ERIC WILLIAM BARCLAY O/A PEST CAUTION 301-20 ROBINSON AVE OTTAWA ON K1N8N9	PES
Licence No: 09701 Detail Licence No: Licence Type Code: 02 Licence Type: Active Operator Licence Licence Class: 01 Licence Control: Trade Name: Post Office Box: Lot: Concession: Region: District: County:					
Operator Box: Operator Class: Operator No: Operator Type: Operator Lot: Oper Concession: Operator Region: Operator District: Operator County: Oper Phone Area Cd: 613 Ext: Oper Phone No: 2629761 Proponent Ext:					
9	1 of 1	W/90.7	61.0 / 0.08	ON	WWIS
Well ID: 7233242 Construction Date: Primary Water Use: Sec. Water Use:					
Data Entry Status: Yes Data Src: Date Received: 12/9/2014 Selected Flag: Yes					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<div> <div> Final Well Status: Water Type: Casing Material: Audit No: C22614 Tag: Construction Method: Elevation (m): Elevation Reliability: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Flowing (Y/N): Flow Rate: Clear/Cloudy: </div> <div> Abandonment Rec: Contractor: 1844 Form Version: 8 Owner: Street Name: County: OTTAWA-CARLETON Municipality: NEPEAN TOWNSHIP Site Info: Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability: </div> </div>					
<u>Bore Hole Information</u>					
<div> <div> Bore Hole ID: 1005253386 DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind: Date Completed: 09-DEC-14 Remarks: Elevrc Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment: </div> <div> Elevation: 60.32 Elevrc: Zone: 18 East83: 447784 Org CS: UTM83 North83: 5029648 UTMRC: 4 UTMRC Desc: margin of error : 30 m - 100 m Location Method: wwr </div> </div>					
10	1 of 2	SSW/99.9	62.0 / 1.05	Kelly's Auto Body (1984) Limited 23 Hurdman Road Ottawa ON K1N 8N7	CA
<div> <div> Certificate #: 2062-5JRU49 Application Year: 2003 Issue Date: 3/4/2003 Approval Type: Air Status: Approved Application Type: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control: </div> </div>					
10	2 of 2	SSW/99.9	62.0 / 1.05	Hydro Ottawa Limited 23 HURDMAN<UNOFFICIAL> Ottawa ON K1N 8N7	SPL
<div> <div> Ref No: 8445-62AMYH Site No: Incident Dt: 6/25/2004 Year: Incident Cause: </div> <div> Discharger Report: Material Group: Oil Client Type: Sector Type: Other Plant Source Type: </div> </div>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<hr/>					
Incident Event:				Nearest Watercourse:	
Contaminant Code:	15			Site Name:	23 HURDMAN<UNOFFICIAL>
Contaminant Name:	TRANSFORMER OIL (N.O.S.)			Site Address:	
Contaminant Limit 1:				Site District Office:	Ottawa
Contam Limit Freq 1:				Site County/District:	
Contaminant UN No 1:				Site Postal Code:	
Contaminant Qty:	115 L			Site Region:	Eastern
Environment Impact:	Not Anticipated			Site Municipality:	Ottawa
Nature of Impact:				Site Lot:	
Receiving Medium:	Land			Site Conc:	
Receiving Env:				Northing:	
Health/Env Conseq:				Easting:	
MOE Response:				Site Geo Ref Accu:	
Dt MOE Arvl on Scn:				Site Geo Ref Meth:	
MOE Reported Dt:	6/25/2004			Site Map Datum:	
Dt Document Closed:					
Agency Involved:					
SAC Action Class:	Spill to Land				
Incident Reason:					
Incident Summary:	Hydro-Ottawa, 110-115L non-PCB transf. oil				
<hr/>					
11	1 of 1	SE/99.9	62.0 / 1.05	ON	BORE
Borehole ID:	802682			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	
Drill Method:	Hollow stem auger			UTM Zone:	18
Easting:	447932.27			Northing:	5029557.68
Location Accuracy:				Orig. Ground Elev m:	61.8
Elev. Reliability Note:				DEM Ground Elev m:	59.8
Total Depth m:	6.7			Primary Name:	BH 4
Township:				Concession:	
Lot:				Municipality:	
Completion Date:	10-FEB-1982			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--Details--					
Stratum ID:	218573113			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	Concrete
Stratum ID:	218573114			Top Depth(m):	0.1
Bottom Depth(m):	1.2			Stratum Desc:	Dark Grey to Black Cinder Ash
Stratum ID:	218573115			Top Depth(m):	1.2
Bottom Depth(m):	1.4			Stratum Desc:	Dark Brown Topsoil Silt
Stratum ID:	218573116			Top Depth(m):	1.4
Bottom Depth(m):	2.0			Stratum Desc:	Brown Compact sand silt
Stratum ID:	218573117			Top Depth(m):	2.0
Bottom Depth(m):	6.7			Stratum Desc:	Dark Brown to Grey Dense to Loose Till sand silt With: Cl W Gr Occasional: Cob Occ Blds
<hr/>					
12	1 of 1	W/100.5	61.7 / 0.75	17&19 Robinson Avenue Ottawa ON K1N 8N8	EHS
Order No:	20180727213			Municipality:	
Status:	C			Lot/Building Size:	0.12 Ha
Report Type:	Standard Report			X:	-75.667501
Date Received:	27-JUL-18			Y:	45.41819
Report Date:	02-AUG-18			Search Radius (km):	.25

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<div>Client Prov/State: ON</div> <div>Previous Site Name:</div> <div>Nearest Intersection:</div> <div>Additional Info Ordered:</div>					
13	1 of 1	SE/101.0	60.9 / -0.03	ON	BORE
<div>Borehole ID: 802685</div> <div>Use: Geotechnical/Geological Investigation</div> <div>Drill Method: Hollow stem auger</div> <div>Easting: 447954.87</div> <div>Location Accuracy:</div> <div>Elev. Reliability Note:</div> <div>Total Depth m: 9.1</div> <div>Township:</div> <div>Lot:</div> <div>Completion Date: 12-FEB-1982</div> <div>Primary Water Use:</div>		<div>Type: Borehole</div> <div>Status:</div> <div>UTM Zone: 18</div> <div>Northing: 5029578.25</div> <div>Orig. Ground Elev m: 61.8</div> <div>DEM Ground Elev m: 59.7</div> <div>Primary Name: BH 5</div> <div>Concession:</div> <div>Municipality:</div> <div>Static Water Level: 4.4</div> <div>Sec. Water Use:</div>			
<div>--Details--</div> <div><div>Stratum ID: 218573129</div><div>Bottom Depth(m): 1.5</div></div> <div><div>Stratum ID: 218573130</div><div>Bottom Depth(m): 2.0</div></div> <div><div>Stratum ID: 218573131</div><div>Bottom Depth(m): 9.1</div></div> <div><div>Top Depth(m): 0.0</div><div>Stratum Desc: Dark Grey Very Loose Fill-Misc sand silt With: Brk Frag W Blds W Org M</div></div> <div><div>Top Depth(m): 1.5</div><div>Stratum Desc: Brown Compact Layered Sandy Silt & Silty Sand</div></div> <div><div>Top Depth(m): 2.0</div><div>Stratum Desc: Dark Brown to Grey Compact to Loose Till sand silt With: Cl W Gr Occasional: Cob Occ Blds</div></div>					
14	1 of 2	SSW/101.7	62.0 / 1.05	Kelly's Auto Body (1984) Limited 23 Hurdman Road Ottawa Ontario K1N 8N7 Ottawa ON	EBR
<div>Company Name: Kelly's Auto Body (1984) Limited</div> <div>EBR Registry No.: IA02E1108</div> <div>Ministry Ref. No.: 8345-5DX2QH</div> <div>Notice Type: Instrument Decision</div> <div>Notice Date: March 10, 2003</div> <div>Proposal Date: September 18, 2002</div> <div>Year: 2002</div> <div>Proponent Address: 23 Hurdman Road, Ottawa Ontario, K1N 8N7</div> <div>Instrument Type: (EPA s. 9) - Approval for discharge into the natural environment other than water (i.e. Air)</div> <div>Location Other:</div>					
<div>Location:</div> <div>23 Hurdman Road Ottawa Ontario K1N 8N7 Ottawa</div>					
14	2 of 2	SSW/101.7	62.0 / 1.05	Kelly's Auto Body (1984) Limited 23 Hurdman Road Ottawa ON K1N 8N7	ECA
<div>Approval No: 2062-5JRU49</div>		<div>SWP Area Name: Rideau Valley</div>			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Approval Date: Status: Record Type: Link Source: Approval Type: Project Type: Address: Full Address: Full PDF Link:	2003-03-04 Approved ECA IDS ECA-AIR AIR 23 Hurdman Road https://www.accessenvironment.ene.gov.on.ca/instruments/8345-5DX2QH-14.pdf			MOE District: City: Longitude: Latitude:	Ottawa Ottawa -75.6669539999999 45.41755
15	1 of 1	SSE/102.2	61.9 / 0.97	ON	BORE
Borehole ID: Use: Drill Method: Easting: Location Accuracy: Elev. Reliability Note: Total Depth m: Township: Lot: Completion Date: Primary Water Use:	802676 Geotechnical/Geological Investigation Hollow stem auger 447909.47 10.2 09-FEB-1982			Type: Status: UTM Zone: Northing: Orig. Ground Elev m: DEM Ground Elev m: Primary Name: Concession: Municipality: Static Water Level: Sec. Water Use:	Borehole 18 5029543.1 61.5 60.9 BH 1 4.3
--Details--					
Stratum ID: Bottom Depth(m):	218573078 0.1			Top Depth(m): Stratum Desc:	0.0 Concrete
Stratum ID: Bottom Depth(m):	218573079 0.6			Top Depth(m): Stratum Desc:	0.1 Dark Brown Fill-Misc sand silt Trace: Gr Tr Brk Frag
Stratum ID: Bottom Depth(m):	218573080 1.1			Top Depth(m): Stratum Desc:	0.6 Dark Brown sand silt With: Org M
Stratum ID: Bottom Depth(m):	218573081 2.9			Top Depth(m): Stratum Desc:	1.1 Brown Compact to Dense Till sand silt With: Cl W Gr
Stratum ID: Bottom Depth(m):	218573082 4.0			Top Depth(m): Stratum Desc:	2.9 Brown Dense Sand
Stratum ID: Bottom Depth(m):	218573083 5.5			Top Depth(m): Stratum Desc:	4.0 Grey Dense Till Silt - Sand With: Gr W Cob Trace: Cl
Stratum ID: Bottom Depth(m):	218573084 10.1			Top Depth(m): Stratum Desc:	5.5 Dark Grey Compact to Dense Till Silt - Sand With: Cl W Gr W Blds
Stratum ID: Bottom Depth(m):	218573085 10.2			Top Depth(m): Stratum Desc:	10.1 Bedrock Shale
16	1 of 1	N/112.0	58.1 / -2.79	OTTAWA ON	WWIS
Well ID: Construction Date: Primary Water Use: Sec. Water Use: Final Well Status:	7292936 Test Hole Monitoring Monitoring and Test Hole			Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec:	 8/18/2017 Yes

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Water Type:				Contractor:	7241
Casing Material:				Form Version:	7
Audit No:	Z258441			Owner:	
Tag:	A182467			Street Name:	3 HARDEN ROAD
Construction Method:				County:	OTTAWA-CARLETON
Elevation (m):				Municipality:	OTTAWA CITY
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	
Well Depth:				Concession:	
Overburden/Bedrock:				Concession Name:	
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					

Bore Hole Information

Bore Hole ID:	1006711141	Elevation:	57.43
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	447853
Code OB Desc:		Org CS:	UTM83
Open Hole:		North83:	5029749
Cluster Kind:		UTMRC:	4
Date Completed:	19-JUL-17	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID:	1006843458
Layer:	3
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	06
Other Materials:	SILT
Mat3:	05
Other Materials:	CLAY
Formation Top Depth:	1.5
Formation End Depth:	2.94
Formation End Depth UOM:	m

Overburden and Bedrock

Materials Interval

Formation ID:	1006843459
Layer:	4
Color:	2
General Color:	GREY
Mat1:	28
Most Common Material:	SAND
Mat2:	06
Other Materials:	SILT
Mat3:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Other Materials:					
Formation Top Depth:		2.94			
Formation End Depth:		4.57			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		1006843457			
Layer:		2			
Color:		6			
General Color:		BROWN			
Mat1:		01			
Most Common Material:		FILL			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		.31			
Formation End Depth:		1.5			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		1006843456			
Layer:		1			
Color:		8			
General Color:		BLACK			
Mat1:		02			
Most Common Material:		TOPSOIL			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		0			
Formation End Depth:		.31			
Formation End Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1006843469			
Layer:		3			
Plug From:		1.22			
Plug To:		4.57			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1006843468			
Layer:		2			
Plug From:		.31			
Plug To:		1.22			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1006843467			
Layer:		1			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Plug From:		0			
Plug To:		.31			
Plug Depth UOM:		m			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		1006843466			
Method Construction Code:		B			
Method Construction:		Other Method			
Other Method Construction:		DIRECT PUSH			
<u>Pipe Information</u>					
Pipe ID:		1006843455			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		1006843462			
Layer:		1			
Material:		5			
Open Hole or Material:		PLASTIC			
Depth From:		0			
Depth To:		1.5			
Casing Diameter:		5.2			
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
<u>Construction Record - Screen</u>					
Screen ID:		1006843463			
Layer:		1			
Slot:		10			
Screen Top Depth:		1.5			
Screen End Depth:		4.57			
Screen Material:		5			
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:		6.03			
<u>Water Details</u>					
Water ID:		1006843461			
Layer:					
Kind Code:					
Kind:					
Water Found Depth:					
Water Found Depth UOM:		m			
<u>Hole Diameter</u>					
Hole ID:		1006843460			
Diameter:		11.4			
Depth From:		0			
Depth To:		4.57			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
17	1 of 1	WNW/113.5	60.5 / -0.42	OTTAWA ON	WWIS
<div> <div> Well ID: 7292938 Construction Date: Primary Water Use: Test Hole Sec. Water Use: Monitoring Final Well Status: Monitoring and Test Hole Water Type: Casing Material: Audit No: Z258446 Tag: A182468 Construction Method: Elevation (m): Elevation Reliability: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Flowing (Y/N): Flow Rate: Clear/Cloudy: </div> <div> Data Entry Status: Data Src: Date Received: 8/18/2017 Selected Flag: Yes Abandonment Rec: Contractor: 7241 Form Version: 7 Owner: Street Name: 3 HARDEN ROAD County: OTTAWA-CARLETON Municipality: OTTAWA CITY Site Info: Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability: </div> </div>					
<u>Bore Hole Information</u>					
<div> <div> Bore Hole ID: 1006711162 DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind: Date Completed: 19-JUL-17 Remarks: Elevrc Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment: </div> <div> Elevation: 60.14 Elevrc: Zone: 18 East83: 447768 Org CS: UTM83 North83: 5029679 UTMRC: 4 UTMRC Desc: margin of error : 30 m - 100 m Location Method: wwr </div> </div>					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
<div> <div> Formation ID: 1006843487 Layer: 3 Color: 6 General Color: BROWN Mat1: 06 Most Common Material: SILT Mat2: 28 Other Materials: SAND Mat3: 05 Other Materials: CLAY Formation Top Depth: 3.1 Formation End Depth: 4.57 Formation End Depth UOM: m </div> </div>					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation ID:		1006843488			
Layer:		4			
Color:		2			
General Color:		GREY			
Mat1:		06			
Most Common Material:		SILT			
Mat2:		28			
Other Materials:		SAND			
Mat3:					
Other Materials:					
Formation Top Depth:		4.57			
Formation End Depth:		6.1			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		1006843486			
Layer:		2			
Color:		6			
General Color:		BROWN			
Mat1:		01			
Most Common Material:		FILL			
Mat2:		28			
Other Materials:		SAND			
Mat3:		11			
Other Materials:		GRAVEL			
Formation Top Depth:		.31			
Formation End Depth:		3.1			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		1006843485			
Layer:		1			
Color:		8			
General Color:		BLACK			
Mat1:		02			
Most Common Material:		TOPSOIL			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		0			
Formation End Depth:		.31			
Formation End Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1006843497			
Layer:		2			
Plug From:		.31			
Plug To:		2.74			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1006843498			
Layer:		3			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Plug From:		2.74			
Plug To:		6.1			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1006843496			
Layer:		1			
Plug From:		0			
Plug To:		.31			
Plug Depth UOM:		m			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		1006843495			
Method Construction Code:		B			
Method Construction:		Other Method			
Other Method Construction:		DIRECT PUSH			
<u>Pipe Information</u>					
Pipe ID:		1006843484			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		1006843491			
Layer:		1			
Material:		5			
Open Hole or Material:		PLASTIC			
Depth From:		0			
Depth To:		3.1			
Casing Diameter:		5.2			
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
<u>Construction Record - Screen</u>					
Screen ID:		1006843492			
Layer:		1			
Slot:		10			
Screen Top Depth:		3.1			
Screen End Depth:		6.1			
Screen Material:		5			
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:		6.03			
<u>Water Details</u>					
Water ID:		1006843490			
Layer:					
Kind Code:					
Kind:					
Water Found Depth:					
Water Found Depth UOM:		m			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Hole Diameter</u>					
Hole ID:		1006843489			
Diameter:		11.4			
Depth From:		0			
Depth To:		6.1			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
<u>18</u>	1 of 1	WSW/120.2	62.6 / 1.66	13 ROBINSON AVENUE OTTAWA ON K1N 8N8	HINC
External File Num:		FS INC 0810-06586			
Date of Occurrence:					
Fuel Occurrence Type:					
Fuel Type Involved:					
Status Desc:		Completed - No Action Required			
Job Type Desc:		Incident/Near-Miss Occurrence (FS)			
Oper. Type Involved:					
Service Interruptions:					
Property Damage:					
Fuel Life Cycle Stage:					
Root Cause:					
Reported Details:		Non-mandated. Regional Supervisor Stu Seaton advises that the source of the CO is not related to ny			
Fuel Category:		Unknown			
Occurrence Type:		Incident			
Affiliation:		Emergency Services (Fire, Police,etc)			
County Name:		Ottawa			
Approx. Quant. Rel:					
Nearby body of water:					
Enter Drainage Syst.:					
Approx. Quant. Unit:					
Environmental Impact:					
<u>19</u>	1 of 1	E/121.5	60.5 / -0.44	CANADIAN TIRE PIT STOP 85 ROBINSON AVE OTTAWA ON K1N 8N8	RST
Headcode:		921430			
Headcode Desc:		Oil Changes & Lubrication Service			
Phone:		6138298944			
List Name:					
Description:					
<u>20</u>	1 of 1	SE/123.9	61.1 / 0.22	29 Hurdman Rd Ottawa ON K1N8N7	EHS
Order No:		20170227059		Municipality:	Ottawa
Status:		C		Lot/Building Size:	
Report Type:		Standard Report		X:	-75.665101
Date Received:		27-FEB-17		Y:	45.417548
Report Date:		06-MAR-17		Search Radius (km):	.25
Client Prov/State:		ON			
Previous Site Name:					
Nearest Intersection:					
Additional Info Ordered:		Fire Insur. Maps and/or Site Plans			
<u>21</u>	1 of 1	SSW/124.2	61.9 / 0.97	OTTAWA CITY-LEES AVE. LEES AVE./HURDMAN RD./ROBINSON	CA

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
OTTAWA CITY ON					
Certificate #: Application Year: Issue Date: Approval Type: Status: Application Type: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control:		3-0584-90-90 4/18/1990 Municipal sewage Approved			
22	1 of 16	E/129.6	59.9 / -1.03	29 Hurdman Road Ottawa ON	EHS
Order No: Status: Report Type: Date Received: Report Date: Client Prov/State: Previous Site Name: Nearest Intersection: Additional Info Ordered:		20100111005 C Standard Report 1/11/2010 1/19/2010 ON Municipality: Lot/Building Size: X: -75.666097 Y: 45.417297 Search Radius (km): 0.25			
22	2 of 16	E/129.6	59.9 / -1.03	29 Hurdman Rd Ottawa ON K1N8N7	EHS
Order No: Status: Report Type: Date Received: Report Date: Client Prov/State: Previous Site Name: Nearest Intersection: Additional Info Ordered:		20170227059 C Standard Report 27-FEB-17 06-MAR-17 ON Ottawa -75.665101 45.417548 .25 Fire Insur. Maps and/or Site Plans			
22	3 of 16	E/129.6	59.9 / -1.03	OTTAWA, CITY OF 29 HURDMAN ROAD OTTAWA ON	GEN
Generator No.: Status: Approval Years: Contam. Facility: MHSW Facility: SIC Code: SIC Description:		ON0136222 97,98 8373 ENVIRON. ADMIN. PO Box No.: Country: Choice of Contact: Co Admin: Phone No. Admin:			
--Details-- Waste Code: Waste Description: Waste Code:		221 LIGHT FUELS 251			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Description:		OIL SKIMMINGS & SLUDGES			
Waste Code:		252			
Waste Description:		WASTE OILS & LUBRICANTS			
22	4 of 16	E/129.6	59.9 / -1.03	OTTAWA, CORPORATION OF THE CITY OF 29 HURDMAN ROAD OTTAWA ON	GEN
Generator No.:		ON0136222		PO Box No.:	
Status:				Country:	
Approval Years:		99,00,01,02,03,04,05,06,07,08		Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No. Admin:	
SIC Code:		8373			
SIC Description:		ENVIRON. ADMIN.			
--Details--					
Waste Code:		221			
Waste Description:		LIGHT FUELS			
Waste Code:		251			
Waste Description:		OIL SKIMMINGS & SLUDGES			
Waste Code:		252			
Waste Description:		WASTE OILS & LUBRICANTS			
22	5 of 16	E/129.6	59.9 / -1.03	OTTAWA, CORPORATION OF THE CITY OF 29 HURDMAN ROAD OTTAWA ON	GEN
Generator No.:		ON0136222		PO Box No.:	
Status:				Country:	
Approval Years:		2009		Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No. Admin:	
SIC Code:		913910			
SIC Description:		Other Local Municipal and Regional Public Administration			
--Details--					
Waste Code:		251			
Waste Description:		OIL SKIMMINGS & SLUDGES			
Waste Code:		252			
Waste Description:		WASTE OILS & LUBRICANTS			
22	6 of 16	E/129.6	59.9 / -1.03	OTTAWA, CORPORATION OF THE CITY OF 29 HURDMAN ROAD OTTAWA ON	GEN
Generator No.:		ON0136222		PO Box No.:	
Status:				Country:	
Approval Years:		2010		Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No. Admin:	
SIC Code:		913910			
SIC Description:		Other Local Municipal and Regional Public Administration			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
--Details--					
Waste Code:		251			
Waste Description:		OIL SKIMMINGS & SLUDGES			
Waste Code:		252			
Waste Description:		WASTE OILS & LUBRICANTS			
Waste Code:		145			
Waste Description:		PAINT/PIGMENT/COATING RESIDUES			
22	7 of 16	E/129.6	59.9 / -1.03	OTTAWA, CORPORATION OF THE CITY OF 29 HURDMAN ROAD OTTAWA ON	GEN
Generator No.:	ON0136222			PO Box No.:	
Status:				Country:	
Approval Years:	2011			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No. Admin:	
SIC Code:	913910				
SIC Description:		Other Local Municipal and Regional Public Administration			
--Details--					
Waste Code:		251			
Waste Description:		OIL SKIMMINGS & SLUDGES			
Waste Code:		145			
Waste Description:		PAINT/PIGMENT/COATING RESIDUES			
Waste Code:		252			
Waste Description:		WASTE OILS & LUBRICANTS			
22	8 of 16	E/129.6	59.9 / -1.03	OTTAWA, CORPORATION OF THE CITY OF 29 HURDMAN ROAD OTTAWA ON	GEN
Generator No.:	ON0136222			PO Box No.:	
Status:				Country:	
Approval Years:	2012			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No. Admin:	
SIC Code:	913910				
SIC Description:		Other Local Municipal and Regional Public Administration			
--Details--					
Waste Code:		252			
Waste Description:		WASTE OILS & LUBRICANTS			
Waste Code:		145			
Waste Description:		PAINT/PIGMENT/COATING RESIDUES			
Waste Code:		251			
Waste Description:		OIL SKIMMINGS & SLUDGES			
22	9 of 16	E/129.6	59.9 / -1.03	OTTAWA, CORPORATION OF THE CITY OF 29 HURDMAN ROAD OTTAWA ON	GEN
Generator No.:	ON0136222			PO Box No.:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Status: Approval Years: 2013 Contam. Facility: MHSW Facility: SIC Code: 913910 SIC Description:					
				Country: Choice of Contact: Co Admin: Phone No. Admin:	
--Details--					
Waste Code:		252			
Waste Description:		WASTE OILS & LUBRICANTS			
Waste Code:		145			
Waste Description:		PAINT/PIGMENT/COATING RESIDUES			
Waste Code:		251			
Waste Description:		OIL SKIMMINGS & SLUDGES			
22	10 of 16	E/129.6	59.9 / -1.03	OTTAWA, CORPORATION OF THE CITY OF 29 HURDMAN ROAD OTTAWA ON K1G-5X5	GEN
Generator No.: ON0136222 Status: Approval Years: 2016 Contam. Facility: No MHSW Facility: No SIC Code: 913910 SIC Description: 913910					
				PO Box No.: Country: Canada Choice of Contact: CO_OFFICIAL Co Admin: RANDY VILLENEUVE Phone No. Admin: 613-580-2424 Ext.12085	
--Details--					
Waste Code:		145			
Waste Description:		PAINT/PIGMENT/COATING RESIDUES			
Waste Code:		251			
Waste Description:		OIL SKIMMINGS & SLUDGES			
Waste Code:		252			
Waste Description:		WASTE OILS & LUBRICANTS			
22	11 of 16	E/129.6	59.9 / -1.03	OTTAWA, CORPORATION OF THE CITY OF 29 HURDMAN ROAD OTTAWA ON K1G-5X5	GEN
Generator No.: ON0136222 Status: Approval Years: 2015 Contam. Facility: No MHSW Facility: No SIC Code: 913910 SIC Description: 913910					
				PO Box No.: Country: Canada Choice of Contact: CO_OFFICIAL Co Admin: RANDY VILLENEUVE Phone No. Admin: 613-580-2424 Ext.12085	
--Details--					
Waste Code:		251			
Waste Description:		OIL SKIMMINGS & SLUDGES			
Waste Code:		252			
Waste Description:		WASTE OILS & LUBRICANTS			
Waste Code:		145			
Waste Description:		PAINT/PIGMENT/COATING RESIDUES			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
22	12 of 16	E/129.6	59.9 / -1.03	OTTAWA, CORPORATION OF THE CITY OF 29 HURDMAN ROAD OTTAWA ON K1G-5X5	GEN
<div> <div> Generator No.: ON0136222 Status: Approval Years: 2014 Contam. Facility: No MHSW Facility: No SIC Code: 913910 SIC Description: 913910 </div> <div> PO Box No.: Country: Canada Choice of Contact: CO_OFFICIAL Co Admin: RANDY VILLENEUVE Phone No. Admin: 613-580-2424 Ext.12085 </div> </div>					
--Details--					
Waste Code: 145 Waste Description: PAINT/PIGMENT/COATING RESIDUES					
Waste Code: 252 Waste Description: WASTE OILS & LUBRICANTS					
Waste Code: 251 Waste Description: OIL SKIMMINGS & SLUDGES					
22	13 of 16	E/129.6	59.9 / -1.03	OTTAWA, CORPORATION OF THE CITY OF 29 HURDMAN ROAD OTTAWA ON K1G-5X5	GEN
<div> <div> Generator No.: ON0136222 Status: Registered Approval Years: As of Jun 2018 Contam. Facility: MHSW Facility: SIC Code: SIC Description: </div> <div> PO Box No.: Country: Canada Choice of Contact: Co Admin: Phone No. Admin: </div> </div>					
--Details--					
Waste Code: 252 L Waste Description: Waste crankcase oils and lubricants					
Waste Code: 145 L Waste Description: Wastes from the use of pigments, coatings and paints					
Waste Code: 251 L Waste Description: Waste oils/sludges (petroleum based)					
22	14 of 16	E/129.6	59.9 / -1.03	29 Hurdman Road, Ottawa ON	INC
<div> Incident No: 611458 Incident ID: 2768080 Attribute Category: FS-Perform L1 Incident Insp Status Code: Causal Analysis Complete Incident Location: 29 Hurdman Road, Ottawa - Discovery of Product Drainage System: Unknown Sub Surface Contam.: Yes, 4 feet deep at least. Aff. Prop. Use Water: No Contam. Migrated: Unknown Contact Natural Env.: Yes Near Body of Water: No </div>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Approx. Quant. Rel.: Equipment Model: Serial No: Residential App. Type: Commercial App. Type: Industrial App. Type: Institutional App. Type: Venting Type: Vent Connector Mater: Vent Chimney Mater: Pipeline Type: Pipeline Involved: Pipe Material: Depth Ground Cover: Regulator Location: Regulator Type: Operation Pressure: Liquid Prop Make: Liquid Prop Model: Liquid Prop Serial No: Equipment Type: Cylinder Capacity: Cylinder Capac. Units: Cylinder Material Type: Tank Capacity: Fuels Occurrence Type: Fuel Type Involved: Date of Occurrence: Time of Occurrence: Occur Insp Start Date: Any Health Impact: Any Environmental Impact: Was Service Interrupted: Was Property Damaged: Operation Type Involved: Enforcement Policy: Prc Escalation Required: Task No: Notes: Occurrence Narrative: Tank Material Type: Tank Storage Type: Tank Location Type: Pump Flow Rate Capac: Liquid Prop Notes:		Unknown			
		Leak			
		Fuel Oil			
		2011/06/13 00:00:00			
		12:00:00			
		2011/06/14 00:00:00			
		No			
		Yes			
		No			
		No			
		Industrial / Manufacturing Facility			
		NULL			
		NULL			
		3379857			
		Client discovered a UST during excavation work on city property.			

22	15 of 16	E/129.6	59.9 / -1.03	City of Ottawa 29 Hurdman Road Ottawa ON	SPL
Ref No: Site No: Incident Dt: Year: Incident Cause: Incident Event: Contaminant Code: Contaminant Name: Contaminant Limit 1: Contam Limit Freq 1: Contaminant UN No 1: Contaminant Qty: Environment Impact: Nature of Impact:		2465-7QRPHH Container Leak (Fuel Tank Barrels) DIESEL FUEL 136 L Not Anticipated	Discharger Report: Material Group: Client Type: Sector Type: Source Type: Nearest Watercourse: Site Name: Site Address: Site District Office: Site County/District: Site Postal Code: Site Region: Site Municipality: Site Lot:	Other Roads Department Yard<UNOFFICIAL> Ottawa	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<div> <div> Receiving Medium: Receiving Env: Health/Env Conseq: MOE Response: Dt MOE Arvl on Scn: MOE Reported Dt: Dt Document Closed: Agency Involved: SAC Action Class: Incident Reason: Incident Summary: </div> <div> Planned Field Response 4/3/2009 Watercourse Spills Spill City of Ottawa: 136L diesel to CB, cntd, clning </div> <div> Site Conc: Northing: Easting: Site Geo Ref Accu: Site Geo Ref Meth: Site Map Datum: </div> </div>					
22	16 of 16	E/129.6	59.9 / -1.03	City of Ottawa 29 Hurdman Avenue Ottawa ON K1N 8N7	SPL
<div> <div> Ref No: Site No: Incident Dt: Year: Incident Cause: Incident Event: Contaminant Code: Contaminant Name: Contaminant Limit 1: Contam Limit Freq 1: Contaminant UN No 1: Contaminant Qty: Environment Impact: Nature of Impact: Receiving Medium: Receiving Env: Health/Env Conseq: MOE Response: Dt MOE Arvl on Scn: MOE Reported Dt: Dt Document Closed: Agency Involved: SAC Action Class: Incident Reason: Incident Summary: </div> <div> 2115-8HSJCT 6/13/2011 Tank (Underground) Leak 15 OIL (PETROLEUM BASED, NOT SPECIFIED) 0 other - see incident description Not Anticipated Other Impact(s); Soil Contamination Referral to others 6/13/2011 TSSA - Fuel Safety Branch Corrosion - All forms of internal/external corrosion TSSA: UST discovery, leak </div> <div> Discharger Report: Material Group: Client Type: Sector Type: Source Type: Nearest Watercourse: Site Name: Site Address: Site District Office: Site County/District: Site Postal Code: Site Region: Site Municipality: Site Lot: Site Conc: Northing: Easting: Site Geo Ref Accu: Site Geo Ref Meth: Site Map Datum: </div> <div> Other Municipal Works Yard<UNOFFICIAL> 29 Hurdman Avenue Ottawa </div> </div>					
23	1 of 1	SE/130.6	61.0 / 0.12	Ottawa ON	WWIS
<div> <div> Well ID: Construction Date: Primary Water Use: Sec. Water Use: Final Well Status: Water Type: Casing Material: Audit No: Tag: Construction Method: Elevation (m): Elevation Reliability: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: </div> <div> 7181836 Monitoring and Test Hole 0 Test Hole Z146398 A125599 </div> <div> Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name: County: Municipality: Site Info: Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: </div> <div> 5/30/2012 Yes 7241 7 29 HURDMAN ST OTTAWA-CARLETON NEPEAN TOWNSHIP </div> </div>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Flowing (Y/N): Flow Rate: Clear/Cloudy:				Zone: UTM Reliability:	
<u>Bore Hole Information</u>					
Bore Hole ID:	1003830487			Elevation:	60.28
DP2BR:				Elevrc:	
Spatial Status:				Zone:	18
Code OB:				East83:	447975
Code OB Desc:				Org CS:	UTM83
Open Hole:				North83:	5029556
Cluster Kind:				UTMRC:	4
Date Completed:	26-APR-12			UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:				Location Method:	wwr
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	1004327562				
Layer:	4				
Color:	2				
General Color:	GREY				
Mat1:	05				
Most Common Material:	CLAY				
Mat2:	06				
Other Materials:	SILT				
Mat3:	91				
Other Materials:	WATER-BEARING				
Formation Top Depth:	4.57				
Formation End Depth:	6.1				
Formation End Depth UOM:	m				
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	1004327561				
Layer:	3				
Color:	6				
General Color:	BROWN				
Mat1:	28				
Most Common Material:	SAND				
Mat2:	11				
Other Materials:	GRAVEL				
Mat3:	74				
Other Materials:	LAYERED				
Formation Top Depth:	3.1				
Formation End Depth:	4.57				
Formation End Depth UOM:	m				
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	1004327559				
Layer:	1				
Color:	8				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<hr/>					
General Color:		BLACK			
Mat1:		11			
Most Common Material:		GRAVEL			
Mat2:		60			
Other Materials:		CEMENTED			
Mat3:		73			
Other Materials:		HARD			
Formation Top Depth:		0			
Formation End Depth:		.31			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		1004327560			
Layer:		2			
Color:		6			
General Color:		BROWN			
Mat1:		01			
Most Common Material:		FILL			
Mat2:		28			
Other Materials:		SAND			
Mat3:					
Other Materials:					
Formation Top Depth:		.31			
Formation End Depth:		3.1			
Formation End Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1004327571			
Layer:		2			
Plug From:		.31			
Plug To:		2.44			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1004327570			
Layer:		1			
Plug From:		0			
Plug To:		.31			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1004327572			
Layer:		3			
Plug From:		2.44			
Plug To:		6.1			
Plug Depth UOM:		m			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		1004327569			
Method Construction Code:		D			
Method Construction:		Direct Push			
Other Method Construction:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Pipe Information</u>					
Pipe ID:		1004327558			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		1004327565			
Layer:		1			
Material:		5			
Open Hole or Material:		PLASTIC			
Depth From:		0			
Depth To:		3.1			
Casing Diameter:		4.03			
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
<u>Construction Record - Screen</u>					
Screen ID:		1004327566			
Layer:		1			
Slot:		10			
Screen Top Depth:		3.1			
Screen End Depth:		6.1			
Screen Material:		5			
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:		4.82			
<u>Water Details</u>					
Water ID:		1004327564			
Layer:					
Kind Code:					
Kind:					
Water Found Depth:					
Water Found Depth UOM:		m			
<u>Hole Diameter</u>					
Hole ID:		1004327563			
Diameter:		8.25			
Depth From:		0			
Depth To:		6.1			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
24	1 of 1	SE/145.5	61.1 / 0.22	Ottawa ON	WWIS
Well ID:	7181835			Data Entry Status:	
Construction Date:				Data Src:	
Primary Water Use:	Monitoring and Test Hole			Date Received:	5/30/2012
Sec. Water Use:	0			Selected Flag:	Yes
Final Well Status:	Test Hole			Abandonment Rec:	
Water Type:				Contractor:	7241
Casing Material:				Form Version:	7
Audit No:	Z146399			Owner:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Tag: Construction Method: Elevation (m): Elevation Reliability: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Flowing (Y/N): Flow Rate: Clear/Cloudy:	A125598			Street Name: County: Municipality: Site Info: Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	29 HURDMAN ST OTTAWA-CARLETON NEPEAN TOWNSHIP
<u>Bore Hole Information</u>					
Bore Hole ID: DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind: Date Completed: Remarks: Elevrc Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:	1003830484 26-APR-12			Elevation: Elevrc: Zone: East83: Org CS: North83: UTMRC: UTMRC Desc: Location Method:	61.08 18 447975 UTM83 5029534 4 margin of error : 30 m - 100 m wwr
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2: Other Materials: Mat3: Other Materials: Formation Top Depth: Formation End Depth: Formation End Depth UOM:	1004327544 1 8 BLACK 11 GRAVEL 60 CEMENTED 73 HARD 0 .31 m				
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2: Other Materials: Mat3: Other Materials: Formation Top Depth: Formation End Depth:	1004327545 2 6 BROWN 34 TILL 28 SAND 77 LOOSE .31 3.1				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation End Depth UOM:		m			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		1004327546			
Layer:		3			
Color:		6			
General Color:		BROWN			
Mat1:		10			
Most Common Material:		COARSE SAND			
Mat2:		11			
Other Materials:		GRAVEL			
Mat3:		74			
Other Materials:		LAYERED			
Formation Top Depth:		3.1			
Formation End Depth:		4.57			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		1004327547			
Layer:		4			
Color:		2			
General Color:		GREY			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		06			
Other Materials:		SILT			
Mat3:		91			
Other Materials:		WATER-BEARING			
Formation Top Depth:		4.57			
Formation End Depth:		6.1			
Formation End Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1004327557			
Layer:		3			
Plug From:		2.44			
Plug To:		6.1			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1004327555			
Layer:		1			
Plug From:		0			
Plug To:		.31			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1004327556			
Layer:		2			
Plug From:		.31			
Plug To:		2.44			
Plug Depth UOM:		m			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Method of Construction & Well Use</u>					
Method Construction ID:		1004327554			
Method Construction Code:		D			
Method Construction:		Direct Push			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		1004327543			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		1004327550			
Layer:		1			
Material:		5			
Open Hole or Material:		PLASTIC			
Depth From:		0			
Depth To:		3.1			
Casing Diameter:		4.03			
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
<u>Construction Record - Screen</u>					
Screen ID:		1004327551			
Layer:		1			
Slot:		10			
Screen Top Depth:		3.1			
Screen End Depth:		6.1			
Screen Material:		5			
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:		4.82			
<u>Water Details</u>					
Water ID:		1004327549			
Layer:					
Kind Code:					
Kind:					
Water Found Depth:					
Water Found Depth UOM:		m			
<u>Hole Diameter</u>					
Hole ID:		1004327548			
Diameter:		8.25			
Depth From:		0			
Depth To:		6.1			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
25	1 of 1	SE/147.0	61.1 / 0.22	Ottawa ON	WWIS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<hr/>					
Well ID:	7181834			Data Entry Status:	
Construction Date:				Data Src:	
Primary Water Use:	Monitoring and Test Hole			Date Received:	5/30/2012
Sec. Water Use:	0			Selected Flag:	Yes
Final Well Status:	Test Hole			Abandonment Rec:	
Water Type:				Contractor:	7241
Casing Material:				Form Version:	7
Audit No:	Z146400			Owner:	
Tag:	A125597			Street Name:	29 HURDMAN ST
Construction Method:				County:	OTTAWA-CARLETON
Elevation (m):				Municipality:	OTTAWA CITY
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	
Well Depth:				Concession:	
Overburden/Bedrock:				Concession Name:	
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
 <u>Bore Hole Information</u>					
Bore Hole ID:	1003830481			Elevation:	61.19
DP2BR:				Elevrc:	
Spatial Status:				Zone:	18
Code OB:				East83:	447974
Code OB Desc:				Org CS:	UTM83
Open Hole:				North83:	5029531
Cluster Kind:				UTMRC:	3
Date Completed:	26-APR-12			UTMRC Desc:	margin of error : 10 - 30 m
Remarks:				Location Method:	wwr
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
 <u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	1004327532				
Layer:	4				
Color:	2				
General Color:	GREY				
Mat1:	05				
Most Common Material:	CLAY				
Mat2:	06				
Other Materials:	SILT				
Mat3:	85				
Other Materials:	SOFT				
Formation Top Depth:	4.57				
Formation End Depth:	6.1				
Formation End Depth UOM:	m				
 <u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	1004327530				
Layer:	2				
Color:	6				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<hr/>					
General Color:		BROWN			
Mat1:		28			
Most Common Material:		SAND			
Mat2:		11			
Other Materials:		GRAVEL			
Mat3:		73			
Other Materials:		HARD			
Formation Top Depth:		.31			
Formation End Depth:		1.5			
Formation End Depth UOM:		m			
 <u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		1004327531			
Layer:		3			
Color:		6			
General Color:		BROWN			
Mat1:		28			
Most Common Material:		SAND			
Mat2:		11			
Other Materials:		GRAVEL			
Mat3:		74			
Other Materials:		LAYERED			
Formation Top Depth:		1.5			
Formation End Depth:		4.57			
Formation End Depth UOM:		m			
 <u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		1004327529			
Layer:		1			
Color:		8			
General Color:		BLACK			
Mat1:		11			
Most Common Material:		GRAVEL			
Mat2:		60			
Other Materials:		CEMENTED			
Mat3:		73			
Other Materials:		HARD			
Formation Top Depth:		0			
Formation End Depth:		.31			
Formation End Depth UOM:		m			
 <u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1004327542			
Layer:		3			
Plug From:		2.44			
Plug To:		6.1			
Plug Depth UOM:		m			
 <u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1004327541			
Layer:		2			
Plug From:		.31			
Plug To:		2.44			
Plug Depth UOM:		m			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1004327540			
Layer:		1			
Plug From:		0			
Plug To:		.31			
Plug Depth UOM:		m			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		1004327539			
Method Construction Code:		6			
Method Construction:		Boring			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		1004327528			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		1004327535			
Layer:		1			
Material:		5			
Open Hole or Material:		PLASTIC			
Depth From:		0			
Depth To:		3.1			
Casing Diameter:		4.03			
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
<u>Construction Record - Screen</u>					
Screen ID:		1004327536			
Layer:		1			
Slot:		10			
Screen Top Depth:		3.1			
Screen End Depth:		6.1			
Screen Material:		5			
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:		4.82			
<u>Water Details</u>					
Water ID:		1004327534			
Layer:					
Kind Code:					
Kind:					
Water Found Depth:					
Water Found Depth UOM:		m			
<u>Hole Diameter</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Hole ID: 1004327533 Diameter: 10.92 Depth From: 0 Depth To: 6.1 Hole Depth UOM: m Hole Diameter UOM: cm					
26	1 of 2	SE/151.5	61.1 / 0.22	Ottawa ON	WWIS
Well ID: 7181833 Construction Date: Primary Water Use: Monitoring and Test Hole Sec. Water Use: 0 Final Well Status: Test Hole Water Type: Casing Material: Audit No: Z146401 Tag: A125596 Construction Method: Elevation (m): Elevation Reliability: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Flowing (Y/N): Flow Rate: Clear/Cloudy:					
Data Entry Status: Data Src: Date Received: 5/30/2012 Selected Flag: Yes Abandonment Rec: Contractor: 7241 Form Version: 7 Owner: Street Name: 29 HURDMAN ST County: OTTAWA-CARLETON Municipality: OTTAWA CITY Site Info: Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:					
<u>Bore Hole Information</u>					
Bore Hole ID: 1003830466 DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind: Date Completed: 26-APR-12 Remarks: Elevrc Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:					
Elevation: 61.06 Elevrc: Zone: 18 East83: 447980 Org CS: UTM83 North83: 5029531 UTMRC: 4 UTMRC Desc: margin of error : 30 m - 100 m Location Method: wwr					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID: 1004327513 Layer: 2 Color: 6 General Color: BROWN Mat1: 28 Most Common Material: SAND Mat2: 11 Other Materials: GRAVEL Mat3: 73 Other Materials: HARD Formation Top Depth: .31					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation End Depth:		1.5			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		1004327514			
Layer:		3			
Color:		6			
General Color:		BROWN			
Mat1:		10			
Most Common Material:		COARSE SAND			
Mat2:		11			
Other Materials:		GRAVEL			
Mat3:		74			
Other Materials:		LAYERED			
Formation Top Depth:		1.5			
Formation End Depth:		3.35			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		1004327512			
Layer:		1			
Color:		8			
General Color:		BLACK			
Mat1:		11			
Most Common Material:		GRAVEL			
Mat2:		60			
Other Materials:		CEMENTED			
Mat3:		73			
Other Materials:		HARD			
Formation Top Depth:		0			
Formation End Depth:		.31			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		1004327516			
Layer:		5			
Color:					
General Color:					
Mat1:					
Most Common Material:					
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		5.03			
Formation End Depth:					
Formation End Depth UOM:		m			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		1004327515			
Layer:		4			
Color:		2			
General Color:		GREY			
Mat1:		05			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<hr/>					
Most Common Material:		CLAY			
Mat2:		06			
Other Materials:		SILT			
Mat3:		91			
Other Materials:		WATER-BEARING			
Formation Top Depth:		3.35			
Formation End Depth:		5.03			
Formation End Depth UOM:		m			
 <u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1004327527			
Layer:		3			
Plug From:		1.37			
Plug To:		5.03			
Plug Depth UOM:		m			
 <u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1004327525			
Layer:		1			
Plug From:		0			
Plug To:		.31			
Plug Depth UOM:		m			
 <u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1004327526			
Layer:		2			
Plug From:		.31			
Plug To:		1.37			
Plug Depth UOM:		m			
 <u>Method of Construction & Well Use</u>					
Method Construction ID:		1004327524			
Method Construction Code:		D			
Method Construction:		Direct Push			
Other Method Construction:					
 <u>Pipe Information</u>					
Pipe ID:		1004327511			
Casing No:		0			
Comment:					
Alt Name:					
 <u>Construction Record - Casing</u>					
Casing ID:		1004327520			
Layer:		1			
Material:		5			
Open Hole or Material:		PLASTIC			
Depth From:		0			
Depth To:		1.98			
Casing Diameter:		3.45			
Casing Diameter UOM:		cm			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Casing Depth UOM:		m			
<u>Construction Record - Screen</u>					
Screen ID:		1004327521			
Layer:		1			
Slot:		10			
Screen Top Depth:		1.98			
Screen End Depth:		5.03			
Screen Material:		5			
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:		4.21			
<u>Water Details</u>					
Water ID:		1004327519			
Layer:					
Kind Code:					
Kind:					
Water Found Depth:					
Water Found Depth UOM:		m			
<u>Hole Diameter</u>					
Hole ID:		1004327518			
Diameter:		5.71			
Depth From:		3.1			
Depth To:		5.03			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
<u>Hole Diameter</u>					
Hole ID:		1004327517			
Diameter:		10.92			
Depth From:		0			
Depth To:		3.1			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			

26	2 of 2	SE/151.5	61.1 / 0.22	Ottawa ON	WWIS
Well ID:	7181837			Data Entry Status:	
Construction Date:				Data Src:	
Primary Water Use:	Monitoring and Test Hole			Date Received:	5/30/2012
Sec. Water Use:	0			Selected Flag:	Yes
Final Well Status:	Test Hole			Abandonment Rec:	
Water Type:				Contractor:	7241
Casing Material:				Form Version:	7
Audit No:	Z146397			Owner:	
Tag:	A125600			Street Name:	29 HURDMAN RD
Construction Method:				County:	OTTAWA-CARLETON
Elevation (m):				Municipality:	NEPEAN TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	
Well Depth:				Concession:	
Overburden/Bedrock:				Concession Name:	
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Flow Rate: Clear/Cloudy:				UTM Reliability:	
<u>Bore Hole Information</u>					
Bore Hole ID:	1003830490			Elevation:	61.04
DP2BR:				Elevrc:	
Spatial Status:				Zone:	18
Code OB:				East83:	447981
Code OB Desc:				Org CS:	UTM83
Open Hole:				North83:	5029531
Cluster Kind:				UTMRC:	4
Date Completed:	26-APR-12			UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:				Location Method:	wwr
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	1004327575				
Layer:	2				
Color:	6				
General Color:	BROWN				
Mat1:	01				
Most Common Material:	FILL				
Mat2:	28				
Other Materials:	SAND				
Mat3:	77				
Other Materials:	LOOSE				
Formation Top Depth:	.31				
Formation End Depth:	3.1				
Formation End Depth UOM:	m				
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	1004327576				
Layer:	3				
Color:	6				
General Color:	BROWN				
Mat1:	28				
Most Common Material:	SAND				
Mat2:	11				
Other Materials:	GRAVEL				
Mat3:	74				
Other Materials:	LAYERED				
Formation Top Depth:	3.1				
Formation End Depth:	4.57				
Formation End Depth UOM:	m				
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	1004327574				
Layer:	1				
Color:	8				
General Color:	BLACK				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat1:		11			
Most Common Material:		GRAVEL			
Mat2:		60			
Other Materials:		CEMENTED			
Mat3:		73			
Other Materials:		HARD			
Formation Top Depth:		0			
Formation End Depth:		.31			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		1004327577			
Layer:		4			
Color:		2			
General Color:		GREY			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		11			
Other Materials:		GRAVEL			
Mat3:		91			
Other Materials:		WATER-BEARING			
Formation Top Depth:		4.57			
Formation End Depth:		6.1			
Formation End Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1004327587			
Layer:		3			
Plug From:		2.44			
Plug To:		6.1			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1004327586			
Layer:		2			
Plug From:		.31			
Plug To:		2.44			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1004327585			
Layer:		1			
Plug From:		0			
Plug To:		.31			
Plug Depth UOM:		m			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		1004327584			
Method Construction Code:		D			
Method Construction:		Direct Push			
Other Method Construction:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Pipe Information</u>					
Pipe ID:		1004327573			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		1004327580			
Layer:		1			
Material:		5			
Open Hole or Material:		PLASTIC			
Depth From:		0			
Depth To:		3.1			
Casing Diameter:		4.03			
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
<u>Construction Record - Screen</u>					
Screen ID:		1004327581			
Layer:		1			
Slot:		10			
Screen Top Depth:		3.1			
Screen End Depth:		6.1			
Screen Material:		5			
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:		4.82			
<u>Water Details</u>					
Water ID:		1004327579			
Layer:					
Kind Code:					
Kind:					
Water Found Depth:					
Water Found Depth UOM:		m			
<u>Hole Diameter</u>					
Hole ID:		1004327578			
Diameter:		8.25			
Depth From:		0			
Depth To:		6.1			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			

[27](#)

1 of 2

WSW/163.4

63.9 / 3.02

9 Robinson Ave.
Ottawa ON K1N 8N8

CA

Certificate #: 7132-4N2QFS
Application Year: 00
Issue Date: 8/11/00
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Pegasus Development Corporation
Client Address: 1914 Merivale Rd.
Client City: Nepean

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Client Postal Code: Project Description: Contaminants: Emission Control:		K2G 1E8 Storm & Sanitary Sewers			
27	2 of 2	WSW/163.4	63.9 / 3.02	Pegasus Development Corporation 9 Robinson Ave. Ottawa ON K2G 1E8	ECA
Approval No: Approval Date: Status: Record Type: Link Source: Approval Type: Project Type: Address: Full Address: Full PDF Link:		7132-4N2QFS 2000-08-11 Approved ECA IDS ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS MUNICIPAL AND PRIVATE SEWAGE WORKS 9 Robinson Ave. https://www.accessenvironment.ene.gov.on.ca/instruments/4482-4MBPU4-14.pdf		SWP Area Name: MOE District: City: Longitude: Latitude:	Rideau Valley Ottawa Ottawa -75.67134 45.417545
28	1 of 1	WSW/170.0	63.9 / 3.02	PRIVATE OWNER 5-9 HURDMAN STREET MOTOR VEHICLE (OPERATING FLUID) OTTAWA CITY ON K1N 8N6	SPL
Ref No: Site No: Incident Dt: Year: Incident Cause: Incident Event: Contaminant Code: Contaminant Name: Contaminant Limit 1: Contam Limit Freq 1: Contaminant UN No 1: Contaminant Qty: Environment Impact: Nature of Impact: Receiving Medium: Receiving Env: Health/Env Conseq: MOE Response: Dt MOE Arvl on Scn: MOE Reported Dt: Dt Document Closed: Agency Involved: SAC Action Class: Incident Reason: Incident Summary:		74304 8/6/1992 OTHER CONTAINER LEAK NOT ANTICIPATED LAND 8/6/1992 INTENTIONAL/PLANNED PRIVATE VEHICLE: 10 L MOTOR OIL DUMPED ON ROAD/CATCHBASIN		Discharger Report: Material Group: Client Type: Sector Type: Source Type: Nearest Watercourse: Site Name: Site Address: Site District Office: Site County/District: Site Postal Code: Site Region: Site Municipality: Site Lot: Site Conc: Northing: Easting: Site Geo Ref Accu: Site Geo Ref Meth: Site Map Datum:	20101 CITY OF OTTAWA
29	1 of 1	SE/171.7	60.9 / 0.00	ON	BORE
Borehole ID: Use: Drill Method: Easting: Location Accuracy: Elev. Reliability Note:		802687 Geotechnical/Geological Investigation Hollow stem auger 448010.32		Type: Status: UTM Zone: Northing: Orig. Ground Elev m: DEM Ground Elev m:	Borehole 18 5029534.22 61.6 60.1

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Total Depth m: Township: Lot: Completion Date: Primary Water Use:	5.2 10-FEB-1982			Primary Name: Concession: Municipality: Static Water Level: Sec. Water Use:	BH 6 -999.9
--Details--					
Stratum ID: Bottom Depth(m):	218573138 0.2			Top Depth(m): Stratum Desc:	0.0 Concrete
Stratum ID: Bottom Depth(m):	218573139 0.5			Top Depth(m): Stratum Desc:	0.2 Brown Fill-Misc Sand With: Gr W Cob
Stratum ID: Bottom Depth(m):	218573140 2.2			Top Depth(m): Stratum Desc:	0.5 Dark Grey to Black Dense to Very Loose Cinder Ash With: Brk Frag
Stratum ID: Bottom Depth(m):	218573141 2.9			Top Depth(m): Stratum Desc:	2.2 Brown Very Loose Silt With: Sa Trace: Cl Tr Gr
Stratum ID: Bottom Depth(m):	218573142 5.2			Top Depth(m): Stratum Desc:	2.9 Brown Loose to Very Dense Till sand silt With: Cl W Gr
30	1 of 2	WNW/173.6	62.1 / 1.24	3 Hurdman Rd Ottawa ON K1N8N6	EHS
Order No: Status: Report Type: Date Received: Report Date: Client Prov/State: Previous Site Name: Nearest Intersection: Additional Info Ordered:	20170111079 C Custom Report 11-JAN-17 08-FEB-17 ON City Directory			Municipality: Lot/Building Size: X: Y: Search Radius (km):	Ottawa -75.668112 45.419159 .25
30	2 of 2	WNW/173.6	62.1 / 1.24	3 Hurdman Rd Ottawa ON K1N8N6	EHS
Order No: Status: Report Type: Date Received: Report Date: Client Prov/State: Previous Site Name: Nearest Intersection: Additional Info Ordered:	20170111079 C Custom Report 11-JAN-17 08-FEB-17 ON City Directory			Municipality: Lot/Building Size: X: Y: Search Radius (km):	Ottawa -75.668112 45.419159 .25
31	1 of 1	ESE/175.4	60.0 / -0.87	ON	BORE
Borehole ID: Use: Drill Method: Easting: Location Accuracy: Elev. Reliability Note: Total Depth m:	802691 Geotechnical/Geological Investigation Hollow stem auger 448027.63 5.9			Type: Status: UTM Zone: Northing: Orig. Ground Elev m: DEM Ground Elev m: Primary Name:	Borehole 18 5029553.9 59.9 58.1 BH 7

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Township:				Concession:	
Lot:				Municipality:	
Completion Date:	10-FEB-1982			Static Water Level:	3.3
Primary Water Use:				Sec. Water Use:	
--Details--					
Stratum ID:	218573161			Top Depth(m):	0.0
Bottom Depth(m):	0.2			Stratum Desc:	Cinder Ash
Stratum ID:	218573163			Top Depth(m):	0.4
Bottom Depth(m):	1.7			Stratum Desc:	Brown Very Loose Silt - Sand
Stratum ID:	218573164			Top Depth(m):	1.7
Bottom Depth(m):	5.8			Stratum Desc:	Dark Brown to Grey Compact to Loose Till sand silt With: Cl W Gr Occasional: Cob Occ Blds
Stratum ID:	218573165			Top Depth(m):	5.8
Bottom Depth(m):	5.9			Stratum Desc:	Bedrock Shale
Stratum ID:	218573162			Top Depth(m):	0.2
Bottom Depth(m):	0.4			Stratum Desc:	Brown Silt - Sand

33	1 of 1	WNW/177.0	63.5 / 2.58	Ottawa ON	WWIS
Well ID:	7293328			Data Entry Status:	
Construction Date:				Data Src:	
Primary Water Use:	Test Hole			Date Received:	8/18/2017
Sec. Water Use:	Monitoring			Selected Flag:	Yes
Final Well Status:	Monitoring and Test Hole			Abandonment Rec:	
Water Type:				Contractor:	7241
Casing Material:				Form Version:	7
Audit No:	Z258445			Owner:	
Tag:	A182469			Street Name:	3 HURDMAN ROAD
Construction Method:				County:	OTTAWA-CARLETON
Elevation (m):				Municipality:	OTTAWA CITY
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	
Well Depth:				Concession:	
Overburden/Bedrock:				Concession Name:	
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Flowing (Y/N): Flow Rate: Clear/Cloudy:				Zone: UTM Reliability:	
<u>Bore Hole Information</u>					
Bore Hole ID:	1006710697			Elevation:	61.84
DP2BR:				Elevrc:	
Spatial Status:				Zone:	18
Code OB:				East83:	447710
Code OB Desc:				Org CS:	UTM83
Open Hole:				North83:	5029705
Cluster Kind:				UTMRC:	4
Date Completed:	19-JUL-17			UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:				Location Method:	wwr
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	1006830508				
Layer:	1				
Color:	8				
General Color:	BLACK				
Mat1:	02				
Most Common Material:	TOPSOIL				
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:	0				
Formation End Depth:	.31				
Formation End Depth UOM:	m				
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	1006830509				
Layer:	2				
Color:	6				
General Color:	BROWN				
Mat1:	05				
Most Common Material:	CLAY				
Mat2:	06				
Other Materials:	SILT				
Mat3:	81				
Other Materials:	SANDY				
Formation Top Depth:	.31				
Formation End Depth:	2.74				
Formation End Depth UOM:	m				
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	1006830510				
Layer:	3				
Color:	2				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<hr/>					
General Color:		GREY			
Mat1:		06			
Most Common Material:		SILT			
Mat2:					
Other Materials:					
Mat3:		81			
Other Materials:		SANDY			
Formation Top Depth:		2.74			
Formation End Depth:		4.57			
Formation End Depth UOM:		m			
 <u>Annular Space/Abandonment</u> <u>Sealing Record</u>					
Plug ID:		1006830520			
Layer:		3			
Plug From:		1.22			
Plug To:		4.57			
Plug Depth UOM:		m			
 <u>Annular Space/Abandonment</u> <u>Sealing Record</u>					
Plug ID:		1006830518			
Layer:		1			
Plug From:		0			
Plug To:		.31			
Plug Depth UOM:		m			
 <u>Annular Space/Abandonment</u> <u>Sealing Record</u>					
Plug ID:		1006830519			
Layer:		2			
Plug From:		.31			
Plug To:		1.22			
Plug Depth UOM:		m			
 <u>Method of Construction & Well</u> <u>Use</u>					
Method Construction ID:		1006830517			
Method Construction Code:		D			
Method Construction:		Direct Push			
Other Method Construction:					
 <u>Pipe Information</u>					
Pipe ID:		1006830507			
Casing No:		0			
Comment:					
Alt Name:					
 <u>Construction Record - Casing</u>					
Casing ID:		1006830513			
Layer:		1			
Material:		5			
Open Hole or Material:		PLASTIC			
Depth From:		0			
Depth To:		1.5			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<hr/>					
Casing Diameter:		5.2			
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
 <u>Construction Record - Screen</u>					
Screen ID:		1006830514			
Layer:		1			
Slot:		10			
Screen Top Depth:		1.5			
Screen End Depth:		4.57			
Screen Material:		5			
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:		6.03			
 <u>Water Details</u>					
Water ID:		1006830512			
Layer:					
Kind Code:					
Kind:					
Water Found Depth:					
Water Found Depth UOM:		m			
 <u>Hole Diameter</u>					
Hole ID:		1006830511			
Diameter:		11.4			
Depth From:		0			
Depth To:		4.57			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
<hr/>					
34	1 of 1	NW/179.1	59.9 / -1.03	OTTAWA ON	WWIS
Well ID:	7292937			Data Entry Status:	
Construction Date:				Data Src:	
Primary Water Use:	Test Hole			Date Received:	8/18/2017
Sec. Water Use:	Monitoring			Selected Flag:	Yes
Final Well Status:	Monitoring and Test Hole			Abandonment Rec:	
Water Type:				Contractor:	7241
Casing Material:				Form Version:	7
Audit No:	Z258444			Owner:	
Tag:	A182466			Street Name:	3 HARDMAN ROAD
Construction Method:				County:	OTTAWA-CARLETON
Elevation (m):				Municipality:	OTTAWA CITY
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	
Well Depth:				Concession:	
Overburden/Bedrock:				Concession Name:	
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
 <u>Bore Hole Information</u>					
Bore Hole ID:	1006711159			Elevation:	59.7
DP2BR:				Elevrc:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Spatial Status:				Zone:	18
Code OB:				East83:	447747
Code OB Desc:				Org CS:	UTM83
Open Hole:				North83:	5029765
Cluster Kind:				UTMRC:	4
Date Completed:		19-JUL-17	UTMRC Desc:		margin of error : 30 m - 100 m
Remarks:				Location Method:	wwr
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		1006843472			
Layer:		2			
Color:		6			
General Color:		BROWN			
Mat1:		28			
Most Common Material:		SAND			
Mat2:		06			
Other Materials:		SILT			
Mat3:		05			
Other Materials:		CLAY			
Formation Top Depth:		.31			
Formation End Depth:		3.1			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		1006843473			
Layer:		3			
Color:		2			
General Color:		GREY			
Mat1:		28			
Most Common Material:		SAND			
Mat2:		06			
Other Materials:		SILT			
Mat3:					
Other Materials:					
Formation Top Depth:		3.1			
Formation End Depth:		4.57			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		1006843471			
Layer:		1			
Color:		8			
General Color:		BLACK			
Mat1:		02			
Most Common Material:		TOPSOIL			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		0			
Formation End Depth:		.31			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation End Depth UOM:		ft			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1006843481			
Layer:		1			
Plug From:		0			
Plug To:		.31			
Plug Depth UOM:		ft			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1006843483			
Layer:		3			
Plug From:		1.22			
Plug To:		4.57			
Plug Depth UOM:		ft			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1006843482			
Layer:		2			
Plug From:		.31			
Plug To:		1.22			
Plug Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		1006843480			
Method Construction Code:		B			
Method Construction:		Other Method			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		1006843470			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		1006843476			
Layer:		1			
Material:		5			
Open Hole or Material:		PLASTIC			
Depth From:		0			
Depth To:		1.5			
Casing Diameter:		5.2			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Screen</u>					
Screen ID:		1006843477			
Layer:		1			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Slot:		10			
Screen Top Depth:		1.5			
Screen End Depth:		4.57			
Screen Material:		5			
Screen Depth UOM:		ft			
Screen Diameter UOM:		inch			
Screen Diameter:		6.03			
<u>Water Details</u>					
Water ID:		1006843475			
Layer:					
Kind Code:					
Kind:					
Water Found Depth:					
Water Found Depth UOM:		ft			
<u>Hole Diameter</u>					
Hole ID:		1006843474			
Diameter:		11.4			
Depth From:		0			
Depth To:		4.57			
Hole Depth UOM:		ft			
Hole Diameter UOM:		inch			

35	1 of 1	WNW/207.0	63.5 / 2.64	Ottawa ON	WWIS
Well ID:	7284721			Data Entry Status:	
Construction Date:				Data Src:	
Primary Water Use:	Test Hole			Date Received:	4/10/2017
Sec. Water Use:	Monitoring			Selected Flag:	Yes
Final Well Status:	Monitoring and Test Hole			Abandonment Rec:	
Water Type:				Contractor:	7241
Casing Material:				Form Version:	7
Audit No:	Z250775			Owner:	
Tag:	A190085			Street Name:	430 WIGGINS PVT
Construction Method:				County:	OTTAWA-CARLETON
Elevation (m):				Municipality:	NEPEAN TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	
Well Depth:				Concession:	
Overburden/Bedrock:				Concession Name:	
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
<u>Bore Hole Information</u>					
Bore Hole ID:	1006377925			Elevation:	62.84
DP2BR:				Elevrc:	
Spatial Status:				Zone:	18
Code OB:				East83:	447697
Code OB Desc:				Org CS:	UTM83
Open Hole:				North83:	5029746
Cluster Kind:				UTMRC:	4
Date Completed:	23-MAR-17			UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:				Location Method:	wwr
Elevrc Desc:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:					
<u>Overburden and Bedrock</u> <u>Materials Interval</u>					
Formation ID:		1006639043			
Layer:		1			
Color:		2			
General Color:		GREY			
Mat1:		11			
Most Common Material:		GRAVEL			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		0			
Formation End Depth:		.61			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock</u> <u>Materials Interval</u>					
Formation ID:		1006639046			
Layer:		4			
Color:		6			
General Color:		BROWN			
Mat1:		28			
Most Common Material:		SAND			
Mat2:		06			
Other Materials:		SILT			
Mat3:		79			
Other Materials:		PACKED			
Formation Top Depth:		2.44			
Formation End Depth:		3.35			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock</u> <u>Materials Interval</u>					
Formation ID:		1006639045			
Layer:		3			
Color:		2			
General Color:		GREY			
Mat1:		11			
Most Common Material:		GRAVEL			
Mat2:					
Other Materials:					
Mat3:		73			
Other Materials:		HARD			
Formation Top Depth:		.91			
Formation End Depth:		2.44			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock</u> <u>Materials Interval</u>					
Formation ID:		1006639044			
Layer:		2			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Color:		2			
General Color:		GREY			
Mat1:					
Most Common Material:					
Mat2:		60			
Other Materials:		CEMENTED			
Mat3:					
Other Materials:					
Formation Top Depth:		.61			
Formation End Depth:		.91			
Formation End Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1006639056			
Layer:		2			
Plug From:		.31			
Plug To:		1.5			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1006639057			
Layer:		3			
Plug From:		1.5			
Plug To:		3.35			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1006639055			
Layer:		1			
Plug From:		0			
Plug To:		.31			
Plug Depth UOM:		m			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		1006639054			
Method Construction Code:		B			
Method Construction:		Other Method			
Other Method Construction:		DP			
<u>Pipe Information</u>					
Pipe ID:		1006639042			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		1006639050			
Layer:		1			
Material:		5			
Open Hole or Material:		PLASTIC			
Depth From:		0			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Depth To:		1.83			
Casing Diameter:		3.45			
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
<u>Construction Record - Screen</u>					
Screen ID:		1006639051			
Layer:		1			
Slot:		10			
Screen Top Depth:		1.83			
Screen End Depth:		3.35			
Screen Material:		5			
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:		4.21			
<u>Water Details</u>					
Water ID:		1006639049			
Layer:					
Kind Code:					
Kind:					
Water Found Depth:					
Water Found Depth UOM:		m			
<u>Hole Diameter</u>					
Hole ID:		1006639048			
Diameter:		5.71			
Depth From:		.91			
Depth To:		3.35			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
<u>Hole Diameter</u>					
Hole ID:		1006639047			
Diameter:		8			
Depth From:		0			
Depth To:		.941			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
<hr/>					
36	1 of 1	SSW/210.4	61.9 / 0.97	Ottawa ON	WWIS
Well ID:	7180700			Data Entry Status:	
Construction Date:				Data Src:	
Primary Water Use:				Date Received:	5/10/2012
Sec. Water Use:				Selected Flag:	Yes
Final Well Status:	Abandoned-Other			Abandonment Rec:	Yes
Water Type:				Contractor:	7241
Casing Material:				Form Version:	7
Audit No:	Z145267			Owner:	
Tag:				Street Name:	200 LEES AVE
Construction Method:				County:	OTTAWA-CARLETON
Elevation (m):				Municipality:	NEPEAN TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	
Well Depth:				Concession:	
Overburden/Bedrock:				Concession Name:	

74 erisinfo.com | Environmental Risk Information Services Order No: 20181119144

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<hr/>					
Screen ID:		1004304045			
Layer:					
Slot:					
Screen Top Depth:					
Screen End Depth:					
Screen Material:					
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:					
 <u>Water Details</u>					
Water ID:		1004304043			
Layer:					
Kind Code:					
Kind:					
Water Found Depth:					
Water Found Depth UOM:		m			
 <u>Hole Diameter</u>					
Hole ID:		1004304042			
Diameter:		10.92			
Depth From:		0			
Depth To:		5.2			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
<hr/>					
37	1 of 1	WSW/213.9	65.2 / 4.27	Ottawa ON	WWIS
Well ID:	7293327				
Construction Date:				Data Entry Status:	
Primary Water Use:	Test Hole			Data Src:	
Sec. Water Use:	Monitoring			Date Received:	8/18/2017
Final Well Status:	Monitoring and Test Hole			Selected Flag:	Yes
Water Type:				Abandonment Rec:	
Casing Material:				Contractor:	7241
Audit No:	Z206426			Form Version:	7
Tag:	A182472			Owner:	
Construction Method:				Street Name:	3 HURDMAN ROAD
Elevation (m):				County:	OTTAWA-CARLETON
Elevation Reliability:				Municipality:	OTTAWA CITY
Depth to Bedrock:				Site Info:	
Well Depth:				Lot:	
Overburden/Bedrock:				Concession:	
Pump Rate:				Concession Name:	
Static Water Level:				Easting NAD83:	
Flowing (Y/N):				Northing NAD83:	
Flow Rate:				Zone:	
Clear/Cloudy:				UTM Reliability:	
 <u>Bore Hole Information</u>					
Bore Hole ID:	1006710691			Elevation:	65.14
DP2BR:				Elevrc:	
Spatial Status:				Zone:	18
Code OB:				East83:	447665
Code OB Desc:				Org CS:	UTM83
Open Hole:				North83:	5029595
Cluster Kind:				UTMRC:	4

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Date Completed:		19-JUL-17		UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:				Location Method:	wwr
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		1006830478			
Layer:		3			
Color:		6			
General Color:		BROWN			
Mat1:		11			
Most Common Material:		GRAVEL			
Mat2:		06			
Other Materials:		SILT			
Mat3:		81			
Other Materials:		SANDY			
Formation Top Depth:		1.83			
Formation End Depth:		3.1			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		1006830477			
Layer:		2			
Color:		6			
General Color:		BROWN			
Mat1:		01			
Most Common Material:		FILL			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		.61			
Formation End Depth:		1.83			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		1006830479			
Layer:		4			
Color:		2			
General Color:		GREY			
Mat1:		28			
Most Common Material:		SAND			
Mat2:		06			
Other Materials:		SILT			
Mat3:		11			
Other Materials:		GRAVEL			
Formation Top Depth:		3.1			
Formation End Depth:		4.57			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation ID:		1006830476			
Layer:		1			
Color:		2			
General Color:		GREY			
Mat1:		11			
Most Common Material:		GRAVEL			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		0			
Formation End Depth:		.61			
Formation End Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1006830487			
Layer:		1			
Plug From:		0			
Plug To:		.31			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1006830488			
Layer:		2			
Plug From:		.31			
Plug To:		1.22			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1006830489			
Layer:		3			
Plug From:		1.22			
Plug To:		4.57			
Plug Depth UOM:		m			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		1006830486			
Method Construction Code:		D			
Method Construction:		Direct Push			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		1006830475			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		1006830482			
Layer:		1			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<hr/>					
Material:		5			
Open Hole or Material:		PLASTIC			
Depth From:		0			
Depth To:		1.5			
Casing Diameter:		5.2			
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
 <u>Construction Record - Screen</u>					
Screen ID:		1006830483			
Layer:		1			
Slot:		10			
Screen Top Depth:		1.5			
Screen End Depth:		4.57			
Screen Material:		5			
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:		6.03			
 <u>Water Details</u>					
Water ID:		1006830481			
Layer:					
Kind Code:					
Kind:					
Water Found Depth:					
Water Found Depth UOM:		m			
 <u>Hole Diameter</u>					
Hole ID:		1006830480			
Diameter:		11.4			
Depth From:		0			
Depth To:		4.57			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			

38	1 of 1	S/220.3	61.9 / 0.97	Ottawa ON	WWIS
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Well ID:	7180694			Data Entry Status:	
Construction Date:				Data Src:	
Primary Water Use:	Monitoring and Test Hole			Date Received:	5/10/2012
Sec. Water Use:	0			Selected Flag:	Yes
Final Well Status:	Abandoned-Other			Abandonment Rec:	
Water Type:				Contractor:	7241
Casing Material:				Form Version:	7
Audit No:	Z146457			Owner:	
Tag:				Street Name:	200 LEES AVE
Construction Method:				County:	OTTAWA-CARLETON
Elevation (m):				Municipality:	NEPEAN TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	
Well Depth:				Concession:	
Overburden/Bedrock:				Concession Name:	
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Bore Hole Information</u>					
Bore Hole ID:	1003760653			Elevation:	61.94
DP2BR:				Elevrc:	
Spatial Status:				Zone:	18
Code OB:				East83:	447885
Code OB Desc:				Org CS:	UTM83
Open Hole:				North83:	5029419
Cluster Kind:				UTMRC:	4
Date Completed:	24-FEB-12			UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:				Location Method:	wwr
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:	1004303978				
Layer:	2				
Plug From:	.31				
Plug To:	8.5				
Plug Depth UOM:	m				
<u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:	1004303977				
Layer:	1				
Plug From:	0				
Plug To:	.31				
Plug Depth UOM:	m				
<u>Method of Construction & Well</u>					
<u>Use</u>					
Method Construction ID:	1004303976				
Method Construction Code:	6				
Method Construction:	Boring				
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:	1004303968				
Casing No:	0				
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:	1004303972				
Layer:					
Material:					
Open Hole or Material:					
Depth From:					
Depth To:					
Casing Diameter:					
Casing Diameter UOM:	cm				
Casing Depth UOM:	m				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Construction Record - Screen</u>					
Screen ID:	1004303973				
Layer:					
Slot:					
Screen Top Depth:					
Screen End Depth:					
Screen Material:					
Screen Depth UOM:	m				
Screen Diameter UOM:	cm				
Screen Diameter:					
<u>Water Details</u>					
Water ID:	1004303971				
Layer:					
Kind Code:					
Kind:					
Water Found Depth:					
Water Found Depth UOM:	m				
<u>Hole Diameter</u>					
Hole ID:	1004303970				
Diameter:	10.92				
Depth From:	0				
Depth To:	8.5				
Hole Depth UOM:	m				
Hole Diameter UOM:	cm				
<u>39</u>	1 of 3	S/225.8	61.9 / 0.97	Ottawa ON	WWIS
Well ID:	7180695			Data Entry Status:	
Construction Date:				Data Src:	
Primary Water Use:	Monitoring and Test Hole			Date Received:	5/10/2012
Sec. Water Use:	0			Selected Flag:	Yes
Final Well Status:	Abandoned-Other			Abandonment Rec:	Yes
Water Type:				Contractor:	7241
Casing Material:				Form Version:	7
Audit No:	Z146458			Owner:	
Tag:				Street Name:	200 LEES AVE
Construction Method:				County:	OTTAWA-CARLETON
Elevation (m):				Municipality:	OTTAWA CITY
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	
Well Depth:				Concession:	
Overburden/Bedrock:				Concession Name:	
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
<u>Bore Hole Information</u>					
Bore Hole ID:	1003760656			Elevation:	61.73
DP2BR:				Elevrc:	
Spatial Status:				Zone:	18
Code OB:				East83:	447907
Code OB Desc:				Org CS:	UTM83

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<hr/>					
Open Hole:				North83:	5029415
Cluster Kind:				UTMRC:	4
Date Completed:	24-FEB-12			UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:				Location Method:	wwr
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:		1004303989			
Layer:		2			
Plug From:		.31			
Plug To:		6.5			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:		1004303988			
Layer:		1			
Plug From:		0			
Plug To:		.31			
Plug Depth UOM:		m			
<u>Method of Construction & Well</u>					
<u>Use</u>					
Method Construction ID:		1004303987			
Method Construction Code:		6			
Method Construction:		Boring			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		1004303979			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		1004303983			
Layer:					
Material:					
Open Hole or Material:					
Depth From:					
Depth To:					
Casing Diameter:					
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
<u>Construction Record - Screen</u>					
Screen ID:		1004303984			
Layer:					
Slot:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Screen Top Depth: Screen End Depth: Screen Material: Screen Depth UOM: m Screen Diameter UOM: cm Screen Diameter:					
<u>Water Details</u>					
Water ID: 1004303982 Layer: Kind Code: Kind: Water Found Depth: Water Found Depth UOM: m					
<u>Hole Diameter</u>					
Hole ID: 1004303981 Diameter: 10.92 Depth From: 0 Depth To: 6.5 Hole Depth UOM: m Hole Diameter UOM: cm					
39	2 of 3	S/225.8	61.9 / 0.97	Ottawa ON	WWIS
Well ID: 7180869 Construction Date: Primary Water Use: Monitoring and Test Hole Sec. Water Use: 0 Final Well Status: Abandoned-Other Water Type: Casing Material: Audit No: Z146459 Tag: Construction Method: Elevation (m): Elevation Reliability: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Flowing (Y/N): Flow Rate: Clear/Cloudy:					
Data Entry Status: Data Src: Date Received: 5/10/2012 Selected Flag: Yes Abandonment Rec: Yes Contractor: 7241 Form Version: 7 Owner: Street Name: 200 LEES AVE County: OTTAWA-CARLETON Municipality: NEPEAN TOWNSHIP Site Info: Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:					
<u>Bore Hole Information</u>					
Bore Hole ID: 1003767279 DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind: Date Completed: 24-FEB-12 Remarks: Elevrc Desc: Location Source Date:					
Elevation: 61.73 Elevrc: Zone: 18 East83: 447907 Org CS: UTM83 North83: 5029416 UTMRC: 4 UTMRC Desc: margin of error : 30 m - 100 m Location Method: wwr					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:					
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1004307878			
Layer:		2			
Plug From:		.31			
Plug To:		8.8			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1004307877			
Layer:		1			
Plug From:		0			
Plug To:		.31			
Plug Depth UOM:		m			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		1004307876			
Method Construction Code:		6			
Method Construction:		Boring			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		1004307868			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		1004307872			
Layer:					
Material:					
Open Hole or Material:					
Depth From:					
Depth To:					
Casing Diameter:					
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
<u>Construction Record - Screen</u>					
Screen ID:		1004307873			
Layer:					
Slot:					
Screen Top Depth:					
Screen End Depth:					
Screen Material:					
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Water Details</u>					
Water ID:		1004307871			
Layer:					
Kind Code:					
Kind:					
Water Found Depth:					
Water Found Depth UOM:		m			
<u>Hole Diameter</u>					
Hole ID:		1004307870			
Diameter:		10.92			
Depth From:		0			
Depth To:		8.8			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
<hr/>					
39	3 of 3	S/225.8	61.9 / 0.97	Ottawa ON	WWIS
Well ID:	7180703			Data Entry Status:	
Construction Date:				Data Src:	
Primary Water Use:	Monitoring and Test Hole			Date Received:	5/10/2012
Sec. Water Use:	0			Selected Flag:	Yes
Final Well Status:	Abandoned-Other			Abandonment Rec:	Yes
Water Type:				Contractor:	7241
Casing Material:				Form Version:	7
Audit No:	Z146460			Owner:	
Tag:				Street Name:	200 LEES AVE
Construction Method:				County:	OTTAWA-CARLETON
Elevation (m):				Municipality:	NEPEAN TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	
Well Depth:				Concession:	
Overburden/Bedrock:				Concession Name:	
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
<u>Bore Hole Information</u>					
Bore Hole ID:	1003760716			Elevation:	61.73
DP2BR:				Elevrc:	
Spatial Status:				Zone:	18
Code OB:				East83:	447907
Code OB Desc:				Org CS:	UTM83
Open Hole:				North83:	5029416
Cluster Kind:				UTMRC:	4
Date Completed:	24-FEB-12			UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:				Location Method:	wwr
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Annular Space/Abandonment</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Sealing Record</u>					
Plug ID:		1004304089			
Layer:		1			
Plug From:		.31			
Plug To:		6.6			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:		1004304090			
Layer:		2			
Plug From:		.31			
Plug To:		0			
Plug Depth UOM:		m			
<u>Method of Construction & Well</u>					
<u>Use</u>					
Method Construction ID:		1004304088			
Method Construction Code:		6			
Method Construction:		Boring			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		1004304080			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		1004304084			
Layer:					
Material:					
Open Hole or Material:					
Depth From:					
Depth To:					
Casing Diameter:					
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
<u>Construction Record - Screen</u>					
Screen ID:		1004304085			
Layer:					
Slot:					
Screen Top Depth:					
Screen End Depth:					
Screen Material:					
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:					
<u>Water Details</u>					
Water ID:		1004304083			
Layer:					
Kind Code:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Kind: Water Found Depth: Water Found Depth UOM: m					
Hole Diameter					
Hole ID: 1004304082 Diameter: 10.91 Depth From: 0 Depth To: 6.6 Hole Depth UOM: m Hole Diameter UOM: cm					
40	1 of 1	WSW/233.3	65.1 / 4.17	ON	BORE
Borehole ID: 847627 Use: Geotechnical/Geological Investigation Drill Method: Diamond Drill Easting: 447656 Location Accuracy: Elev. Reliability Note: Total Depth m: 13.9 Township: NEPEAN Lot: LOT G Completion Date: 20-FEB-1964 Primary Water Use:					
Type: Borehole Status: Decommissioned UTM Zone: 18 Northing: 5029556 Orig. Ground Elev m: 60.8 DEM Ground Elev m: 63.7 Primary Name: Concession: BROKEN FRONT D Municipality: Static Water Level: 3.7 Sec. Water Use:					
--Details--					
Stratum ID: 6558290 Bottom Depth(m): 0.7					
Top Depth(m): 0.0 Stratum Desc: LOOSE TO COMPACT BROWN SAND WITH GRAVEL AND CINDERS FILL					
Stratum ID: 6558291 Bottom Depth(m): 3.2					
Top Depth(m): 0.7 Stratum Desc: COMPACT BROWN TO GREY BROWN SANDY SILT TO SILTY SAND WITH GRAVEL TRACE OF CLAY WEATHERED UPPER TILL					
Stratum ID: 6558292 Bottom Depth(m): 7.6					
Top Depth(m): 3.2 Stratum Desc: COMPACT TO DENSE DARK GREY FINE SAND TO SAND WITH GRAVEL TRACE TO SOME SILT					
Stratum ID: 6558293 Bottom Depth(m): 8.8					
Top Depth(m): 7.6 Stratum Desc: VERY DENSE GREY FINE SAND OCCASIONAL GRAVEL					
Stratum ID: 6558294 Bottom Depth(m): 11.5					
Top Depth(m): 8.8 Stratum Desc: VERY DENSE DARK GREY SANDY SILT TO SILTY SAND WITH GRAVEL COBBLES AND BOULDERS TRACE OF CLAY LOWER TILL					
Stratum ID: 6558295 Bottom Depth(m): 13.9					
Top Depth(m): 11.5 Stratum Desc: FAIRLY SOUND TO SOUND DARK GREY TO BLACK SHALE BEDROCK					
41	1 of 1	SE/234.8	52.9 / -8.03	ON	BORE
Borehole ID: 848154 Use: Geotechnical/Geological Investigation Drill Method: Hollow stem auger					
Type: Borehole Status: Decommissioned UTM Zone: 18					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Easting: Location Accuracy: Elev. Reliability Note: Total Depth m: Township: Lot: Completion Date: Primary Water Use:	448060 3.4 NEPEAN LOT G 23-NOV-1984			Northing: Orig. Ground Elev m: DEM Ground Elev m: Primary Name: Concession: Municipality: Static Water Level: Sec. Water Use:	5029495 56 59.6 BROKEN FRONT D -999.9
--Details-- Stratum ID: Bottom Depth(m):	6560128 1.2			Top Depth(m): Stratum Desc:	0.0 HETEROGENEOUS MIXTURE OF SILTY CLAY, SAND WITH SHALE FRAGMENTS
42	1 of 1	SE/235.8	52.9 / -8.03	Hwy 417 Ottawa ON	EHS
Order No: Status: Report Type: Date Received: Report Date: Client Prov/State: Previous Site Name: Nearest Intersection: Additional Info Ordered:	20120201022 C Custom Report 2/1/2012 3/22/2012 ON			Municipality: Lot/Building Size: X: Y: Search Radius (km):	-75.663739 45.417136 0.25
43	1 of 1	WSW/241.4	64.9 / 3.94	ON	BORE
Borehole ID: Use: Drill Method: Easting: Location Accuracy: Elev. Reliability Note: Total Depth m: Township: Lot: Completion Date: Primary Water Use:	847631 Geotechnical/Geological Investigation Diamond Drill 447658 5 NEPEAN LOT G 21-FEB-1964			Type: Status: UTM Zone: Northing: Orig. Ground Elev m: DEM Ground Elev m: Primary Name: Concession: Municipality: Static Water Level: Sec. Water Use:	Borehole Decommissioned 18 5029531 60.7 62 BROKEN FRONT D 4.6
--Details-- Stratum ID: Bottom Depth(m):	6558305 0.6			Top Depth(m): Stratum Desc:	0.0 LOOSE TO COMPACT BROWN SAND AND CINDERS TILL
Stratum ID: Bottom Depth(m):	6558306 2.4			Top Depth(m): Stratum Desc:	0.6 FILL COMPACT TO DENSE BROWN TO GREY SILTY SAND WITH GRAVEL
Stratum ID: Bottom Depth(m):	6558307 3.0			Top Depth(m): Stratum Desc:	2.4 VERY DENSE BROWN TO DARK GREY SILTY SAND WITH GRAVEL OCCASIONAL COBBLES WEATHERED UPPER TILL
Stratum ID: Bottom Depth(m):	6558308 5.0			Top Depth(m): Stratum Desc:	3.0 VERY DENSE DARK GREY SAND AND GRAVEL TRACE OF SILT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
44	1 of 2	WNW/241.9	66.2 / 5.33	310 Wiggins Pvt Ottawa ON K1N1B1	EHS
Order No: 20170118023 Status: C Report Type: Standard Report Date Received: 18-JAN-17 Report Date: 24-JAN-17 Client Prov/State: ON Previous Site Name: Nearest Intersection: Additional Info Ordered: Fire Insur. Maps and/or Site Plans; City Directory		Municipality: Lot/Building Size: X: -75.668894 Y: 45.419437 Search Radius (km): .25			
44	2 of 2	WNW/241.9	66.2 / 5.33	310 Wiggins Pvt Ottawa ON K1N1B1	EHS
Order No: 20170118023 Status: C Report Type: Standard Report Date Received: 18-JAN-17 Report Date: 24-JAN-17 Client Prov/State: ON Previous Site Name: Nearest Intersection: Additional Info Ordered: Fire Insur. Maps and/or Site Plans; City Directory		Municipality: Lot/Building Size: X: -75.668894 Y: 45.419437 Search Radius (km): .25			
45	1 of 2	WSW/242.8	64.9 / 3.94	DANBAR HOLDINGS (OTTAWA) LIMITED ROBINSON AVE/LEES AVE. OTTAWA CITY ON	CA
Certificate #: 7-0924-97- Application Year: 97 Issue Date: 8/28/1997 Approval Type: Municipal water Status: Approved Application Type: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control:					
45	2 of 2	WSW/242.8	64.9 / 3.94	DANBAR HOLDINGS (OTTAWA) LIMITED LEES AVE./ROBINSON AVE., CSO OTTAWA CITY ON	CA
Certificate #: 3-1213-97- Application Year: 97 Issue Date: 8/27/1997 Approval Type: Municipal sewage Status: Approved Application Type: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Emission Control:					
46	1 of 1	SE/242.8	59.7 / -1.21	ON	BORE
Borehole ID:	613301			Type:	Borehole
Use:				Status:	
Drill Method:				UTM Zone:	18
Easting:	448041			Northing:	5029462
Location Accuracy:				Orig. Ground Elev m:	58.7
Elev. Reliability Note:				DEM Ground Elev m:	61
Total Depth m:	1.3			Primary Name:	
Township:				Concession:	
Lot:				Municipality:	
Completion Date:	JUL-1962			Static Water Level:	-2.3
Primary Water Use:				Sec. Water Use:	
--Details--					
Stratum ID:	218394570			Top Depth(m):	0.0
Bottom Depth(m):	1.1			Stratum Desc:	ARTIFICIAL.
Stratum ID:	218394571			Top Depth(m):	1.1
Bottom Depth(m):	1.3			Stratum Desc:	ARTIFICIAL. SOFT. SOFT. CLAY. GREY,FIRM. CLAY. GREY,FIRM. TILL. COMPACT. BEDROCK. FO
47	1 of 1	WSW/243.4	64.9 / 3.94	ON	BORE
Borehole ID:	613310			Type:	Borehole
Use:				Status:	
Drill Method:				UTM Zone:	18
Easting:	447661			Northing:	5029522
Location Accuracy:				Orig. Ground Elev m:	60.3
Elev. Reliability Note:				DEM Ground Elev m:	62.2
Total Depth m:	1.4			Primary Name:	
Township:				Concession:	
Lot:				Municipality:	
Completion Date:	JUL-1962			Static Water Level:	-6.6
Primary Water Use:				Sec. Water Use:	
--Details--					
Stratum ID:	218394595			Top Depth(m):	0.0
Bottom Depth(m):	0.8			Stratum Desc:	ARTIFICIAL.
Stratum ID:	218394596			Top Depth(m):	0.8
Bottom Depth(m):	1.4			Stratum Desc:	ARTIFICIAL. WN.HARD. TILL. GREY,FIRM. BEDROCK. GREY,FRACTURED, WATER STABLE AT 219.4 FEET.
48	1 of 1	W/244.5	66.0 / 5.11	ON	BORE
Borehole ID:	847628			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Diamond Drill			UTM Zone:	18
Easting:	447631			Northing:	5029611
Location Accuracy:				Orig. Ground Elev m:	61.1
Elev. Reliability Note:				DEM Ground Elev m:	68.3

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Total Depth m: Township: Lot: Completion Date: Primary Water Use:	4.7 NEPEAN LOT F 22-FEB-1964			Primary Name: Concession: Municipality: Static Water Level: Sec. Water Use:	 BROKEN FRONT D 3.2
--Details--					
Stratum ID: Bottom Depth(m):	6558296 0.6			Top Depth(m): Stratum Desc:	0.0 LOOSE TO COMPACT BROWN SAND SOME GRAVEL AND CINDERS FILL
Stratum ID: Bottom Depth(m):	6558297 2.7			Top Depth(m): Stratum Desc:	0.6 DENSE TO VERY DENSE GREY BROWN TO BROWN SANDY SILT TO SILTY SAND WITH GRAVEL TRACE OF CLAY WEATHERED UPPER TILL
Stratum ID: Bottom Depth(m):	6558298 4.7			Top Depth(m): Stratum Desc:	2.7 VERY DENSE DARK GREY SILTY SAND TO SAND WITH GRAVEL

[49](#) 1 of 1 WSW/249.2 65.8 / 4.92 ON **BORE**

Borehole ID: Use: Drill Method: Easting: Location Accuracy: Elev. Reliability Note: Total Depth m: Township: Lot: Completion Date: Primary Water Use:	847630 Geotechnical/Geological Investigation Diamond Drill 447639 4.9 NEPEAN LOT G 21-FEB-1964			Type: Status: UTM Zone: Northing: Orig. Ground Elev m: DEM Ground Elev m: Primary Name: Concession: Municipality: Static Water Level: Sec. Water Use:	 Borehole Decommissioned 18 5029557 60.9 64.3 BROKEN FRONT D -999.9
--Details--					
Stratum ID: Bottom Depth(m):	6558302 2.1			Top Depth(m): Stratum Desc:	0.0 COMPACT TO VERY DENSE DARK BROWN SILTY SAND GRAVEL COBBLES AND BOULDERS
Stratum ID: Bottom Depth(m):	6558303 3.4			Top Depth(m): Stratum Desc:	2.1 WEATHERED UPPER TILL VERY DENSE GREY BROWN SILTY SAND WITH GRAVEL TRACE OF CLAY
Stratum ID: Bottom Depth(m):	6558304 4.9			Top Depth(m): Stratum Desc:	3.4 VERY DENSE DARK GREY SAND AND GRAVEL TRACE OF SILT

Unplottable Summary

Total: **70** Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA	R.M. OF OTTAWA-CARLETON	LEES AVE.	OTTAWA CITY ON	
CA		Lees Avenue	Ottawa ON	
CA	NATIONAL CAPITAL COMMISSION	ROBINSON AVE.	OTTAWA CITY ON	
CA	SPENCER & ASSOC.CONSLTG.ENG.LTD.	LEES AVE.	OTTAWA ON	
ECA	City of Ottawa	(Highway 417 to 170 m north of Baseline Road)	Ottawa ON	K1P 1J1
EHS		Hwy 417	Ottawa ON	
EHS		Highway 417, CN Rail	Ottawa ON	
GEN	PITTS (OUT OF BUS) 31-354	BANISTER CONT. LTD. C/O BOX 8008 OTTAWA TERMINAL HURDMAN BRIDGE AT HWY. 417	OTTAWA-CARLETON ON	K1G 3H6
GEN	Ecoplans Limited	Highway 417 West onramp accessed off Moodie Drive	Ottawa ON	K2H 8G3
GEN	PITTS ENGINEERING CONSTRUCTION	BANISTER CONT. LTD. C/O BOX 8008 OTTAWA TERMINAL HURDMAN BRIDGE AT HWY. 417	OTTAWA-CARLETON ON	K1G 3H6
GEN	OTTAWA-CARLTON, REGIONAL MUNICIPALITY OF	HURDMAN'S BRIDGE, PUMPING STATION RIVERSIDE DRIVE	OTTAWA ON	
GEN	RW Tomlinson	Lees Avenue Transit Station	Ottawa ON	
GEN	OTTAWA-CARLTON, REGIONAL MUNICIPALITY OF	LEES AVENUE TRANSIT STATION	OTTAWA ON	
GEN	CLEAN WATER WORKS	LEES AVE @ OC TRANSPOR TRANSIT WAY	OTTAWA ON	
GEN	OTTAWA-CARLTON, REGIONAL MUNICIPAL	(STORM WATER PUMPING STATION, LEES AVE) C/O 222 QUEEN STREET	OTTAWA ON	K1P 5Z3
GEN	CLEAN WATER WORKS	LEES AVE @ OC TRANSPOR TRANSIT WAY	OTTAWA ON	
GEN	CITY OF OTTAWA	LEES AVENUE TRANSIT STATION	OTTAWA ON	

GEN	OTTAWA-CARLTON, REGIONAL MUN. OF 29-120	LEES AVENUE TRANSIT STATION C/O 222 QUEEN STREET	OTTAWA ON	K1P 5Z3
GEN	PITTS ENGINEERING CONSTRUCTION 31-354	BANISTER CONT. LTD. C/O BOX 8008 OTTAWA TERMINAL HURDMAN BRIDGE AT HWY. 417	OTTAWA-CARLETON ON	K1G 3H6
GEN	National Capital Commission	Hurdman Park	Ottawa ON	
GEN	National Capital Commission	Hurdman Park	Ottawa ON	K1P 1C7
GEN	National Capital Commission	Hurdman Park	Ottawa ON	
GEN	National Capital Commission	Hurdman Park	Ottawa ON	
GEN	OTTAWA-CARLTON, REGIONAL MUN. OF	LEES AVENUE TRANSIT STATION C/O 222 QUEEN STREET	OTTAWA ON	K1P 5Z3
GEN	CITY OF OTTAWA	LEES AVENUE TRANSIT STATION	OTTAWA ON	K1V 1A6
GEN	CITY OF OTTAWA	LEES AVENUE TRANSIT STATION	OTTAWA ON	K1V 1A6
GEN	CITY OF OTTAWA	LEES AVENUE TRANSIT STATION	OTTAWA ON	
GEN	CITY OF OTTAWA	LEES AVENUE TRANSIT STATION	OTTAWA ON	
GEN	OTTAWA-CARLTON, REGIONAL MUNICIPALITY OF	(STORM WATER PUMPING STATION, LEES AVE) C/O 222 QUEEN STREET	OTTAWA ON	K1P 5Z3
GEN	CITY OF OTTAWA	LEES AVENUE TRANSIT STATION	OTTAWA ON	
RST	CANADIAN TIRE PIT STOP & PROPANE		OTTAWA ON	K2H5Z2
RST	CANADIAN TIRE PIT STOP & PROPANE		OTTAWA ON	K2H 5Z2
SPL	Unisource Canada, Inc.	HWY 417-West near Km 117 on the Vanier Prk Way,	Ottawa ON	
SPL	Clean Water Works Inc.	near the 417 underpass going eastbound approximately 1 km west of the Moodie Drive exit, crossing a railroad track	Ottawa ON	
SPL	PAUL'S BACKHOE SERVICE	HWY 34 NORTH 5 - 5.5 MILES NORTH OF HWY 417 EAST 333 CHAMPLAIN ST., HAWKESBURY, ONT.	OTTAWA CITY ON	
SPL	Sita Ontario Inc.	Highway 417(westbound) and Moodie Drive ramp	Ottawa ON	
SPL	Ferguson Fuels<UNOFFICIAL>	HWY 417 EASTBOUND AT THE EAGLESON OFF RAMP<UNOFFICIAL>	Ottawa ON	
SPL		HIGHWAY 417 EASTBOUND, EAST OF ROCKDALE EXIT<UNOFFICIAL>	Ottawa ON	

SPL	Waste Services Inc.	Highway 417 East bound West of Terry Fox	Ottawa ON
SPL	City of Ottawa	Highway 417	Ottawa ON
SPL	TRANSPORT TRUCK	HWY 417 BETWEEN NICOLAS AND VANIER PARKWAY MOTOR VEHICLE (OPERATING FLUID)	OTTAWA CITY ON
SPL	Waste Management Inc.	HWY 417 EASTBOUND, ST. LAURENT EXIT (115)<UNOFFICIAL>	Ottawa ON
SPL	CITY OF OTTAWA SNOW PLOW<UNOFFICIAL>	TERRY FOX DRIVE AT THE HWY. 417 OVERPASS<UNOFFICIAL>	Ottawa ON
SPL	Thermal Shell	Highway 417 West of Eagleson Rd	Ottawa ON
SPL	TRANSPORT TRUCK	HWY # 417 AT ROCHESTER EXIT. MOTOR VEHICLE (OPERATING FLUID)	OTTAWA CITY ON
SPL		HWY 417 ONRAMP AT TERRY FOX EXIT<UNOFFICIAL>	Ottawa ON
SPL	TRANSPORT TRUCK	HWY 417 AT MILE MARKER 5, EASTBOUND MOTOR VEHICLE (OPERATING FLUID)	OTTAWA CITY ON
SPL	Wilway Transport<UNOFFICIAL>	Highway 417 eastbound, panmure exit(exit 162) MVA - HIGHWAY 417 EASTBOUND AT PANMURE EXIT (EXIT 163)<UNOFFICIAL>	Ottawa ON
SPL	TRANSPORT TRUCK	HWY. 417 MOTOR VEHICLE (OPERATING FLUID)	OTTAWA ON
SPL	LECLAIR FUELS LTD.	HWY 417 BTWN INNIS & PKWY TANK TRUCK (CARGO)	OTTAWA CITY ON
SPL		417 EASTBOUND - NICHOLAS ON RAMP<UNOFFICIAL>	Ottawa ON
SPL	S. 21(1)(f)	Hwy 417 E between Vanier Parkway and St. Laurent<UNOFFICIAL>	Ottawa ON
SPL	OLRT Constructors<UNOFFICIAL>	Hurdman Bridge NE side	Ottawa ON
SPL	OLRT Constructors	Hurdman Park	Ottawa ON
SPL	Hughson Barriers Inc.	Hurdman Road and Lees Road; Highway 417 at Rideau River	Ottawa; Ottawa ON
SPL	UNKNOWN	STORM SEWER IN HURDMAN PARK NEAR THE HURDMAN TRANSITWAY STATION	OTTAWA CITY ON
SPL	Enbridge Gas Distribution Inc.	HWY 417 at Vars Bridge	Ottawa ON
SPL	Tomlinson Environmental Services Ltd.; SNC-Lavalin Constructors (Pacific) Inc	Highway 417 at Hurdman Bridge	Ottawa ON
SPL		417 eastbound, east of exit 104	Ottawa ON

SPL	Drain-All Ltd.	Hwy 417 Westbound near Carling off-ramp	Ottawa ON
SPL		central transit way adjacent to hwy 417 between nicholas ave and lees ave	Ottawa ON
SPL	City of Ottawa	Hwy 417 West bound, between the Carling Ave Exit and the Maitland Exit	Ottawa ON
SPL	Purolator Courier Ltd.	Hwy 417 Eastbound @ Mile Marker 180	Ottawa ON
SPL	Glenview Iron and Steel Ltd.<UNOFFICIAL>	Hwy 417 - Woodroffe W. Bnd, On-Ramp	Ottawa ON
SPL		Hwy 417 to the corner of Rideau and King Edward	Ottawa ON
SPL	Unknown<UNOFFICIAL>	Hwy 417, near Queen Elizabeth Dr	Ottawa ON
SPL	Ottawa LRT <UNOFFICIAL>	Hwy 417 near Lees Avenue	Ottawa ON
SPL		Hwy 417 Under Overpass @ Castlefrank Road	Ottawa ON
SPL		Hwy 417 at Hurdman Bridge, SW Corner	Ottawa ON
SPL	Penske Truck Leasing Canada Inc.	Hwy 417 east, at exit 88, Vars	Ottawa ON

Unplottable Report

Site: R.M. OF OTTAWA-CARLETON
LEES AVE. OTTAWA CITY ON

Database:
CA

Certificate #: 3-1317-86-
Application Year: 86
Issue Date: 9/23/1986
Approval Type: Municipal sewage
Status: Revised
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: Lees Avenue Ottawa ON

Database:
CA

Certificate #: 8377-4MUJUZ
Application Year: 00
Issue Date: 8/8/00
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Corporation of the Regional Municipality of Ottawa-Carleton
Client Address: 4475 Trail Rd.
Client City: Nepean
Client Postal Code: K0A 2Z0
Project Description: Rehabilitation of existing watermain with new watermain & hydrants on Lees Avenue
Contaminants:
Emission Control:

Site: NATIONAL CAPITAL COMMISSION
ROBINSON AVE. OTTAWA CITY ON

Database:
CA

Certificate #: 7-0564-87-
Application Year: 87
Issue Date: 6/12/1987
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: SPENCER & ASSOC.CONSLTG.ENG.LTD.
LEES AVE. OTTAWA ON

Database:
CA

Certificate #: 3-0807-85-006
Application Year: 85

Issue Date: 7/30/85
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: **City of Ottawa**
(Highway 417 to 170 m north of Baseline Road) Ottawa ON K1P 1J1

Database:
ECA

Approval No: 5651-8UAQ6Q
Approval Date: 2012-05-22
Status: Approved
Record Type: ECA
Link Source: IDS
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Address: (Highway 417 to 170 m north of Baseline Road)
Full Address:
Full PDF Link: <https://www.accessenvironment.ene.gov.on.ca/instruments/5034-8U6NTS-14.pdf>

SWP Area Name:
MOE District:
City: Ottawa
Longitude:
Latitude:

Site: **Hwy 417 Ottawa ON**

Database:
EHS

Order No: 20120509053
Status: C
Report Type: Custom Report
Date Received: 5/9/2012
Report Date: 5/16/2012
Client Prov/State: ON
Previous Site Name:
Nearest Intersection:
Additional Info Ordered:

Municipality:
Lot/Building Size:
X: -75.670099
Y: 1
Search Radius (km): 0.25

Site: **Highway 417, CN Rail Ottawa ON**

Database:
EHS

Order No: 20051017044
Status: C
Report Type: Site Report
Date Received: 10/17/2005
Report Date: 10/18/2005
Client Prov/State: QC
Previous Site Name:
Nearest Intersection:
Additional Info Ordered:

Municipality:
Lot/Building Size:
X:
Y:
Search Radius (km): 0.25

Site: **PITTS (OUT OF BUS) 31-354**
BANISTER CONT. LTD. C/O BOX 8008 OTTAWA TERMINAL HURDMAN BRIDGE AT HWY. 417 OTTAWA-
CARLETON ON K1G 3H6

Database:
GEN

Generator No.: ON0760802
Status:
Approval Years: 97,98
Contam. Facility:
MHSW Facility:
SIC Code: 4121
SIC Description: HIGHWAYS, STR., ETC.

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

--Details--

Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

Site: *Ecoplans Limited*
Highway 417 West onramp accessed off Moodie Drive Ottawa ON K2H 8G3

Database:
[GEN](#)

Generator No.: ON3922236
Status:
Approval Years: 2010
Contam. Facility:
MHSW Facility:
SIC Code: 541620
SIC Description: Environmental Consulting Services

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

--Details--

Waste Code: 241
Waste Description: HALOGENATED SOLVENTS

Site: *PITTS ENGINEERING CONSTRUCTION*
BANISTER CONT. LTD. C/O BOX 8008 OTTAWA TERMINAL HURDMAN BRIDGE AT HWY. 417 OTTAWA-CARLETON ON K1G 3H6

Database:
[GEN](#)

Generator No.: ON0760802
Status:
Approval Years: 86,87,88,89,90
Contam. Facility:
MHSW Facility:
SIC Code: 4121
SIC Description: HIGHWAYS, STR., ETC.

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

--Details--

Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

Site: *OTTAWA-CARLTON, REGIONAL MUNICIPALITY OF*
HURDMAN'S BRIDGE, PUMPING STATION RIVERSIDE DRIVE OTTAWA ON

Database:
[GEN](#)

Generator No.: ON0303122
Status:
Approval Years: 98
Contam. Facility:
MHSW Facility:
SIC Code: 8272
SIC Description: RES. CONS./IND. DEV.

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

--Details--

Waste Code: 251
Waste Description: OIL SKIMMINGS & SLUDGES

Site: *RW Tomlinson*
Lees Avenue Transit Station Ottawa ON

Database:
[GEN](#)

Generator No.: ON9056839
Status:
Approval Years: 2013
Contam. Facility:
MHSW Facility:
SIC Code: 237310

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

SIC Description: HIGHWAY, STREET AND BRIDGE CONSTRUCTION

--Details--

Waste Code: 251
Waste Description: OIL SKIMMINGS & SLUDGES

Site: OTTAWA-CARLTON, REGIONAL MUNICIPALITY OF
LEES AVENUE TRANSIT STATION OTTAWA ON

Database:
[GEN](#)

Generator No.: ON0303104
Status:
Approval Years: 92,93,97,98,99,00,01
Contam. Facility:
MHSW Facility:
SIC Code: 3699
SIC Description: OTHER PETRO. & COAL

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

--Details--

Waste Code: 222
Waste Description: HEAVY FUELS

Site: CLEAN WATER WORKS
LEES AVE @ OC TRANSPOTRANSIT WAY OTTAWA ON

Database:
[GEN](#)

Generator No.: ON2883524
Status:
Approval Years: 2009
Contam. Facility:
MHSW Facility:
SIC Code: 238990
SIC Description: All Other Specialty Trade Contractors

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

--Details--

Waste Code: 221
Waste Description: LIGHT FUELS

Site: OTTAWA-CARLTON, REGIONAL MUNICIPAL
(STORM WATER PUMPING STATION, LEES AVE) C/O 222 QUEEN STREET OTTAWA ON K1P 5Z3

Database:
[GEN](#)

Generator No.: ON0303103
Status:
Approval Years: 86,87,88,89,90
Contam. Facility:
MHSW Facility:
SIC Code: 0000
SIC Description: *** NOT DEFINED ***

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

Site: CLEAN WATER WORKS
LEES AVE @ OC TRANSPOTRANSIT WAY OTTAWA ON

Database:
[GEN](#)

Generator No.: ON2883524
Status:
Approval Years: 2010
Contam. Facility:
MHSW Facility:
SIC Code: 238990
SIC Description: All Other Specialty Trade Contractors

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

--Details--

Waste Code: 221

Waste Description: LIGHT FUELS

Site: CITY OF OTTAWA
LEES AVENUE TRANSIT STATION OTTAWA ON

Database:
GEN

Generator No.:	ON0303104	PO Box No.:	
Status:		Country:	
Approval Years:	2010	Choice of Contact:	
Contam. Facility:		Co Admin:	
MHSW Facility:		Phone No. Admin:	
SIC Code:	221320		
SIC Description:	Sewage Treatment Facilities		

--Details--

Waste Code: 222
Waste Description: HEAVY FUELS

Waste Code: 146
Waste Description: OTHER SPECIFIED INORGANICS

Site: OTTAWA-CARLTON, REGIONAL MUN. OF 29-120
LEES AVENUE TRANSIT STATION C/O 222 QUEEN STREET OTTAWA ON K1P 5Z3

Database:
GEN

Generator No.:	ON0303104	PO Box No.:	
Status:		Country:	
Approval Years:	94,95,96	Choice of Contact:	
Contam. Facility:		Co Admin:	
MHSW Facility:		Phone No. Admin:	
SIC Code:	3699		
SIC Description:	OTHER PETRO. & COAL		

--Details--

Waste Code: 222
Waste Description: HEAVY FUELS

Site: PITTS ENGINEERING CONSTRUCTION 31-354
BANISTER CONT. LTD. C/O BOX 8008 OTTAWA TERMINAL HURDMAN BRIDGE AT HWY. 417 OTTAWA-CARLETON ON K1G 3H6

Database:
GEN

Generator No.:	ON0760802	PO Box No.:	
Status:		Country:	
Approval Years:	92,93,94,95,96	Choice of Contact:	
Contam. Facility:		Co Admin:	
MHSW Facility:		Phone No. Admin:	
SIC Code:	4121		
SIC Description:	HIGHWAYS, STR., ETC.		

--Details--

Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

Site: National Capital Commission
Hurdman Park Ottawa ON

Database:
GEN

Generator No.:	ON6588263	PO Box No.:	
Status:		Country:	
Approval Years:	2011	Choice of Contact:	
Contam. Facility:		Co Admin:	
MHSW Facility:		Phone No. Admin:	
SIC Code:	911910		
SIC Description:	Other Federal Government Public Administration		

--Details--

Waste Code: 149
Waste Description: LANDFILL LEACHATES

Waste Code: 221
Waste Description: LIGHT FUELS

Site: **National Capital Commission**
Hurdman Park Ottawa ON K1P 1C7

Database:
GEN

Generator No.: ON6588263
Status:
Approval Years: 2012
Contam. Facility:
MHSW Facility:
SIC Code: 911910
SIC Description: Other Federal Government Public Administration

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

--Details--

Waste Code: 221
Waste Description: LIGHT FUELS

Waste Code: 149
Waste Description: LANDFILL LEACHATES

Site: **National Capital Commission**
Hurdman Park Ottawa ON

Database:
GEN

Generator No.: ON6588263
Status:
Approval Years: 2010
Contam. Facility:
MHSW Facility:
SIC Code: 911910
SIC Description: Other Federal Government Public Administration

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

--Details--

Waste Code: 149
Waste Description: LANDFILL LEACHATES

Waste Code: 221
Waste Description: LIGHT FUELS

Site: **National Capital Commission**
Hurdman Park Ottawa ON

Database:
GEN

Generator No.: ON6588263
Status:
Approval Years: 2009
Contam. Facility:
MHSW Facility:
SIC Code: 911910
SIC Description: Other Federal Government Public Administration

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

--Details--

Waste Code: 149
Waste Description: LANDFILL LEACHATES

Waste Code: 221
Waste Description: LIGHT FUELS

Site: OTTAWA-CARLTON, REGIONAL MUN. OF
LEES AVENUE TRANSIT STATION C/O 222 QUEEN STREET OTTAWA ON K1P 5Z3

Database:
GEN

Generator No.: ON0303104
Status:
Approval Years: 86,87,88,89,90
Contam. Facility:
MHSW Facility:
SIC Code: 3699
SIC Description: OTHER PETRO. & COAL

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

--Details--

Waste Code: 222
Waste Description: HEAVY FUELS

Site: CITY OF OTTAWA
LEES AVENUE TRANSIT STATION OTTAWA ON K1V 1A6

Database:
GEN

Generator No.: ON0303104
Status:
Approval Years: 2012
Contam. Facility:
MHSW Facility:
SIC Code: 221320
SIC Description: Sewage Treatment Facilities

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

--Details--

Waste Code: 146
Waste Description: OTHER SPECIFIED INORGANICS

Waste Code: 222
Waste Description: HEAVY FUELS

Site: CITY OF OTTAWA
LEES AVENUE TRANSIT STATION OTTAWA ON K1V 1A6

Database:
GEN

Generator No.: ON0303104
Status:
Approval Years: 02,03,04,05,06,07,08
Contam. Facility:
MHSW Facility:
SIC Code: 221320
SIC Description: Sewage Treatment Facilities

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

--Details--

Waste Code: 146
Waste Description: OTHER SPECIFIED INORGANICS

Waste Code: 222
Waste Description: HEAVY FUELS

Site: CITY OF OTTAWA
LEES AVENUE TRANSIT STATION OTTAWA ON

Database:
GEN

Generator No.: ON0303104
Status:
Approval Years: 2011
Contam. Facility:
MHSW Facility:
SIC Code: 221320
SIC Description: Sewage Treatment Facilities

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

--Details--

Waste Code: 146
Waste Description: OTHER SPECIFIED INORGANICS

Waste Code: 222
Waste Description: HEAVY FUELS

Site: CITY OF OTTAWA
LEES AVENUE TRANSIT STATION OTTAWA ON

Database:
GEN

Generator No.: ON0303104
Status:
Approval Years: 2009
Contam. Facility:
MHSW Facility:
SIC Code: 221320
SIC Description: Sewage Treatment Facilities

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

--Details--

Waste Code: 146
Waste Description: OTHER SPECIFIED INORGANICS

Waste Code: 222
Waste Description: HEAVY FUELS

Site: OTTAWA-CARLTON, REGIONAL MUNICIPALITY OF
(STORM WATER PUMPING STATION, LEES AVE) C/O 222 QUEEN STREET OTTAWA ON K1P 5Z3

Database:
GEN

Generator No.: ON0303103
Status:
Approval Years: 92,93,94
Contam. Facility:
MHSW Facility:
SIC Code: 0000
SIC Description: *** NOT DEFINED ***

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

Site: CITY OF OTTAWA
LEES AVENUE TRANSIT STATION OTTAWA ON

Database:
GEN

Generator No.: ON0303104
Status:
Approval Years: 2013
Contam. Facility:
MHSW Facility:
SIC Code: 221320
SIC Description: SEWAGE TREATMENT FACILITIES

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

--Details--

Waste Code: 251
Waste Description: OIL SKIMMINGS & SLUDGES

Waste Code: 146
Waste Description: OTHER SPECIFIED INORGANICS

Waste Code: 222
Waste Description: HEAVY FUELS

Site: CANADIAN TIRE PIT STOP & PROPANE
OTTAWA ON K2H5Z2

Database:
RST

Headcode: 00921430
Headcode Desc: OIL CHANGES & LUBRICATION SERVICE
Phone: 6138299488
List Name:
Description:

Site: CANADIAN TIRE PIT STOP & PROPANE
OTTAWA ON K2H 5Z2

Database:
RST

Headcode: 00921430
Headcode Desc: OIL CHANGES & LUBRICATION SERVICE
Phone: 6138299488
List Name:
Description:

Site: Unisource Canada, Inc.
HWY 417-West near Km 117 on the Vanier Prk Way, Ottawa ON

Database:
SPL

Ref No:	5066-7B6KDT	Discharger Report:	
Site No:		Material Group:	
Incident Dt:		Client Type:	
Year:		Sector Type:	Transport Truck
Incident Cause:	Other Transport Accident	Source Type:	
Incident Event:		Nearest Watercourse:	
Contaminant Code:	13	Site Name:	MVA of a 10 ton truck<UNOFFICIAL>
Contaminant Name:	DIESEL FUEL	Site Address:	
Contaminant Limit 1:		Site District Office:	Ottawa
Contam Limit Freq 1:		Site County/District:	
Contaminant UN No 1:		Site Postal Code:	
Contaminant Qty:	250 L	Site Region:	
Environment Impact:	Not Anticipated	Site Municipality:	Ottawa
Nature of Impact:		Site Lot:	
Receiving Medium:		Site Conc:	
Receiving Env:		Northing:	
Health/Env Conseq:		Easting:	
MOE Response:	No Field Response	Site Geo Ref Accu:	
Dt MOE Arvl on Scn:		Site Geo Ref Meth:	
MOE Reported Dt:	1/24/2008	Site Map Datum:	
Dt Document Closed:	2/22/2008		
Agency Involved:			
SAC Action Class:	Highway Spills (usually highway accidents)		
Incident Reason:	Unknown - Reason not determined		
Incident Summary:	TT MVA- >250L diesel HWY 417 W/ Drain-all to clean up spill.		

Site: Clean Water Works Inc.
near the 417 underpass going eastbound approximately 1 km west of the Moodie Drive exit, crossing a railroad track Ottawa ON

Database:
SPL

Ref No:	7613-96MQJ2	Discharger Report:	
Site No:		Material Group:	
Incident Dt:	10-APR-13	Client Type:	
Year:		Sector Type:	Sewer (Private or Municipal)
Incident Cause:	Leak/Break	Source Type:	
Incident Event:		Nearest Watercourse:	
Contaminant Code:	44	Site Name:	near the 417 underpass going eastbound approximately 1 km west of the Moodie Drive exit, crossing a railroad track<UNOFFICIAL>
Contaminant Name:	SEWAGE,RAW UNCHLORINATED	Site Address:	near the 417 underpass going eastbound approximately 1 km west of the Moodie Drive exit, crossing a railroad track
Contaminant Limit 1:		Site District Office:	
Contam Limit Freq 1:		Site County/District:	
Contaminant UN No 1:		Site Postal Code:	
Contaminant Qty:	40 L	Site Region:	
Environment Impact:	Not Anticipated	Site Municipality:	Ottawa

Nature of Impact: Soil Contamination
Receiving Medium:
Receiving Env:
Health/Env Conseq:
MOE Response: No Field Response
Dt MOE Arvl on Scn:
MOE Reported Dt: 10-APR-13
Dt Document Closed:
Agency Involved:
SAC Action Class: Land Spills
Incident Reason: Equipment Failure
Incident Summary: Clean Water Works: 40 L sewage to ground due to leak

Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Geo Ref Meth:
Site Map Datum:

Site: PAUL'S BACKHOE SERVICE
 HWY 34 NORTH 5 - 5.5 MILES NORTH OF HWY 417 EAST 333 CHAMPLAIN ST., HAWKESBURY, ONT. OTTAWA
 CITY ON

Database:
 SPL

Ref No: 224046
Site No:
Incident Dt: 4/15/2002
Year:
Incident Cause: UNKNOWN
Incident Event:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Contaminant Qty:
Environment Impact: POSSIBLE
Nature of Impact: Soil contamination
Receiving Medium: LAND / WATER
Receiving Env:
Health/Env Conseq:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 4/15/2002
Dt Document Closed:
Agency Involved:
SAC Action Class:
Incident Reason: UNKNOWN
Incident Summary: PAUL'S BACKHOE SERVICE SPILL UNKNOWN VOL OF GAS & WATER, CONTAINED

Discharger Report:
Material Group:
Client Type:
Sector Type:
Source Type:
Nearest Watercourse:
Site Name:
Site Address:
Site District Office:
Site County/District:
Site Postal Code:
Site Region:
Site Municipality: 20107
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Geo Ref Meth:
Site Map Datum:

Site: Sita Ontario Inc.
 Highway 417(westbound) and Moodie Drive ramp Ottawa ON

Database:
 SPL

Ref No: 4124-6DJQGX
Site No:
Incident Dt: 6/20/2005
Year:
Incident Cause: Other Transport Accident
Incident Event:
Contaminant Code:
Contaminant Name: DIESEL FUEL
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Contaminant Qty:
Environment Impact: Not Anticipated
Nature of Impact: Soil Contamination
Receiving Medium: Land
Receiving Env:
Health/Env Conseq:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 6/20/2005
Dt Document Closed:

Discharger Report: 0
Material Group: Oil
Client Type:
Sector Type: Transport Truck
Source Type:
Nearest Watercourse:
Site Name: 50 L diesel to shoulder<UNOFFICIAL>
Site Address:
Site District Office: Ottawa
Site County/District:
Site Postal Code:
Site Region:
Site Municipality: Ottawa
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Geo Ref Meth:
Site Map Datum:

Agency Involved:
SAC Action Class: Spills to Highways (usually highway accidents)
Incident Reason:
Incident Summary: MVA: SITA Can.: 50 L diesel to Hwy 417/Moodie Dr.

Site: **Ferguson Fuels<UNOFFICIAL>**
HWY 417 EASTBOUND AT THE EAGLESON OFF RAMP<UNOFFICIAL> Ottawa ON

Database:
SPL

Ref No:	2342-6QAQYF	Discharger Report:	
Site No:		Material Group:	Oils
Incident Dt:	5/30/2006	Client Type:	
Year:		Sector Type:	Other Motor Vehicle
Incident Cause:	Other Transport Accident	Source Type:	
Incident Event:		Nearest Watercourse:	
Contaminant Code:	13	Site Name:	
Contaminant Name:	DIESEL FUEL	Site Address:	
Contaminant Limit 1:		Site District Office:	Ottawa
Contam Limit Freq 1:		Site County/District:	
Contaminant UN No 1:		Site Postal Code:	
Contaminant Qty:	60 L	Site Region:	
Environment Impact:	Confirmed	Site Municipality:	Ottawa
Nature of Impact:	Soil Contamination; Surface Water Pollution	Site Lot:	
Receiving Medium:	Land & Water	Site Conc:	
Receiving Env:		Northing:	
Health/Env Conseq:		Easting:	
MOE Response:		Site Geo Ref Accu:	
Dt MOE Arvl on Scn:		Site Geo Ref Meth:	
MOE Reported Dt:	5/30/2006	Site Map Datum:	
Dt Document Closed:			
Agency Involved:			
SAC Action Class:			
Incident Reason:			
Incident Summary:	Ferguson Fuels ~60 L diesel spill, Hwy 417, Eagleson exit		

Site: **HIGHWAY 417 EASTBOUND, EAST OF ROCKDALE EXIT<UNOFFICIAL> Ottawa ON**

Database:
SPL

Ref No:	2415-6M4SUB	Discharger Report:	
Site No:		Material Group:	Oils
Incident Dt:	2/17/2006	Client Type:	
Year:		Sector Type:	Other Motor Vehicle
Incident Cause:	Other Transport Accident	Source Type:	
Incident Event:		Nearest Watercourse:	
Contaminant Code:	12	Site Name:	
Contaminant Name:	GASOLINE	Site Address:	
Contaminant Limit 1:		Site District Office:	Ottawa
Contam Limit Freq 1:		Site County/District:	
Contaminant UN No 1:		Site Postal Code:	
Contaminant Qty:	Not specified 12	Site Region:	
Environment Impact:	Not Anticipated	Site Municipality:	Ottawa
Nature of Impact:	Human Health/Safety; Other Impact(s); Soil Contamination	Site Lot:	
Receiving Medium:	Land	Site Conc:	
Receiving Env:		Northing:	
Health/Env Conseq:		Easting:	
MOE Response:		Site Geo Ref Accu:	
Dt MOE Arvl on Scn:		Site Geo Ref Meth:	
MOE Reported Dt:	2/17/2006	Site Map Datum:	
Dt Document Closed:			
Agency Involved:			
SAC Action Class:			
Incident Reason:	Equipment Failure		
Incident Summary:	Hwy 417 eastbound, 36 vehicle MVA - operating fluid to grnd		

Site: **Waste Services Inc.**

Database:
SPL

Highway 417 East bound West of Terry Fox Ottawa ON

Ref No:	1683-5S3Q8B	Discharger Report:	
Site No:		Material Group:	Oil
Incident Dt:	10/6/2003	Client Type:	
Year:		Sector Type:	Other
Incident Cause:	Other Transport Accident	Source Type:	
Incident Event:		Nearest Watercourse:	
Contaminant Code:	15	Site Name:	HYDRAULIC OIL LEAK - HWY. 417 - OTTAWA<UNOFFICIAL>
Contaminant Name:	HYDRAULIC OIL	Site Address:	
Contaminant Limit 1:		Site District Office:	Ottawa
Contam Limit Freq 1:		Site County/District:	
Contaminant UN No 1:		Site Postal Code:	
Contaminant Qty:	60 L	Site Region:	Eastern
Environment Impact:	Possible	Site Municipality:	Ottawa
Nature of Impact:	Soil Contamination; Surface Water Pollution	Site Lot:	
Receiving Medium:	Land & Water	Site Conc:	
Receiving Env:		Northing:	
Health/Env Conseq:		Easting:	
MOE Response:		Site Geo Ref Accu:	
Dt MOE Arvl on Scn:		Site Geo Ref Meth:	
MOE Reported Dt:	10/6/2003	Site Map Datum:	
Dt Document Closed:			
Agency Involved:			
SAC Action Class:	Spill to Land		
Incident Reason:	Equipment Failure - Malfunction of system components		
Incident Summary:	Waste Services Inc. - Hydraulic oil spill		

Site: City of Ottawa
Highway 417 Ottawa ON

Database:
SPL

Ref No:	3043-7QMTYH	Discharger Report:	
Site No:		Material Group:	
Incident Dt:		Client Type:	
Year:		Sector Type:	Other
Incident Cause:	Pipe Or Hose Leak	Source Type:	
Incident Event:		Nearest Watercourse:	
Contaminant Code:		Site Name:	EB Merge Lane Hwy 417 & Eagleson Road
Contaminant Name:	ENGINE OIL	Site Address:	
Contaminant Limit 1:		Site District Office:	
Contam Limit Freq 1:		Site County/District:	
Contaminant UN No 1:		Site Postal Code:	
Contaminant Qty:	10 L	Site Region:	
Environment Impact:	Not Anticipated	Site Municipality:	Ottawa
Nature of Impact:	Other Impact(s)	Site Lot:	
Receiving Medium:		Site Conc:	
Receiving Env:		Northing:	NA
Health/Env Conseq:		Easting:	NA
MOE Response:		Site Geo Ref Accu:	
Dt MOE Arvl on Scn:		Site Geo Ref Meth:	
MOE Reported Dt:	3/30/2009	Site Map Datum:	
Dt Document Closed:			
Agency Involved:			
SAC Action Class:	Primary Assessment of Incident		
Incident Reason:	Unknown - Reason not determined		
Incident Summary:	OC Transpo: 10L engine oil to grnd on Hwy 417		

Site: TRANSPORT TRUCK
HWY 417 BETWEEN NICOLAS AND VANIER PARKWAY MOTOR VEHICLE (OPERATING FLUID) OTTAWA CITY ON

Database:
SPL

Ref No:	240047	Discharger Report:	
Site No:		Material Group:	
Incident Dt:	9/20/2002	Client Type:	
Year:		Sector Type:	
Incident Cause:	BLADDER FAILURE	Source Type:	
Incident Event:		Nearest Watercourse:	

Contaminant Code:		Site Name:	
Contaminant Name:		Site Address:	
Contaminant Limit 1:		Site District Office:	
Contam Limit Freq 1:		Site County/District:	
Contaminant UN No 1:		Site Postal Code:	
Contaminant Qty:		Site Region:	
Environment Impact:	POSSIBLE	Site Municipality:	20107
Nature of Impact:	Water course or lake	Site Lot:	
Receiving Medium:	LAND, WATER	Site Conc:	
Receiving Env:		Northing:	
Health/Env Conseq:		Easting:	
MOE Response:		Site Geo Ref Accu:	
Dt MOE Arvl on Scn:		Site Geo Ref Meth:	
MOE Reported Dt:	9/20/2002	Site Map Datum:	
Dt Document Closed:			
Agency Involved:			
SAC Action Class:			
Incident Reason:	DAMAGE BY MOVING EQUIPMENT		
Incident Summary:	MOLSON'S:300L DIESEL TO GRD,50L TO SEWER, CONTAINED AND CLEANING		

Site:	Waste Management Inc.	Database:
	HWY 417 EASTBOUND, ST. LAURENT EXIT (115)<UNOFFICIAL> Ottawa ON	SPL

Ref No:	8781-6L7M7T	Discharger Report:	
Site No:		Material Group:	Oils
Incident Dt:	1/19/2006	Client Type:	
Year:		Sector Type:	Other Motor Vehicle
Incident Cause:		Source Type:	
Incident Event:		Nearest Watercourse:	
Contaminant Code:	15	Site Name:	
Contaminant Name:	HYDRAULIC OIL	Site Address:	
Contaminant Limit 1:		Site District Office:	Ottawa
Contam Limit Freq 1:		Site County/District:	
Contaminant UN No 1:		Site Postal Code:	
Contaminant Qty:	200 L	Site Region:	
Environment Impact:	Not Anticipated	Site Municipality:	Ottawa
Nature of Impact:	Soil Contamination	Site Lot:	
Receiving Medium:	Land	Site Conc:	
Receiving Env:		Northing:	
Health/Env Conseq:		Easting:	
MOE Response:		Site Geo Ref Accu:	
Dt MOE Arvl on Scn:		Site Geo Ref Meth:	
MOE Reported Dt:	1/19/2006	Site Map Datum:	
Dt Document Closed:			
Agency Involved:			
SAC Action Class:			
Incident Reason:			
Incident Summary:	HWY 417: garbage truck fire, 45 gal hyd. oil to road		

Site:	CITY OF OTTAWA SNOW PLOW<UNOFFICIAL>	Database:
	TERRY FOX DRIVE AT THE HWY. 417 OVERPASS<UNOFFICIAL> Ottawa ON	SPL

Ref No:	0881-5HS47B	Discharger Report:	
Site No:		Material Group:	Oil
Incident Dt:	1/13/2003	Client Type:	
Year:		Sector Type:	
Incident Cause:	Container Leak (Fuel Tank Barrels)	Source Type:	
Incident Event:		Nearest Watercourse:	
Contaminant Code:	13	Site Name:	TERRY FOX DRIVE AT THE HWY. 417 OVERPASS<UNOFFICIAL>
Contaminant Name:	DIESEL FUEL	Site Address:	
Contaminant Limit 1:		Site District Office:	Ottawa
Contam Limit Freq 1:		Site County/District:	
Contaminant UN No 1:		Site Postal Code:	
Contaminant Qty:	180 L	Site Region:	Eastern
Environment Impact:	Not Anticipated	Site Municipality:	Ottawa
Nature of Impact:		Site Lot:	

Receiving Medium: Land
Receiving Env:
Health/Env Conseq:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 1/13/2003
Dt Document Closed:
Agency Involved:
SAC Action Class: Spill to Land
Incident Reason: Error- Operator error
Incident Summary: CITY OF OTTAWA - 180 L OF DIESEL FUEL TO GROUND.

Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Geo Ref Meth:
Site Map Datum:

Site: Thermal Shell
 Highway 417 West of Eagleson Rd Ottawa ON

Database:
 SPL

Ref No: 2847-5NPPU5
Site No:
Incident Dt: 6/20/2003
Year:
Incident Cause: Container Leak (Fuel Tank Barrels)
Incident Event:
Contaminant Code: 13
Contaminant Name: FUEL OIL
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Contaminant Qty:
Environment Impact: Possible
Nature of Impact: Soil Contamination
Receiving Medium: Land
Receiving Env:
Health/Env Conseq:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 6/20/2003
Dt Document Closed:
Agency Involved:
SAC Action Class: Spill to Land
Incident Reason: Unknown - Reason not determined
Incident Summary: Spill:Thermashell truck- 20L of fuel oil to ground

Discharger Report:
Material Group: Oil
Client Type:
Sector Type:
Source Type:
Nearest Watercourse:
Site Name: THERMASHELL TRUCK<UNOFFICIAL>
Site Address:
Site District Office: Ottawa
Site County/District:
Site Postal Code:
Site Region: Eastern
Site Municipality: Ottawa
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Geo Ref Meth:
Site Map Datum:

Site: TRANSPORT TRUCK
 HWY # 417 AT ROCHESTER EXIT. MOTOR VEHICLE (OPERATING FLUID) OTTAWA CITY ON

Database:
 SPL

Ref No: 172543
Site No:
Incident Dt: 9/10/1999
Year:
Incident Cause: OTHER CONTAINER LEAK
Incident Event:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Contaminant Qty:
Environment Impact: NOT ANTICIPATED
Nature of Impact:
Receiving Medium: LAND
Receiving Env:
Health/Env Conseq:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 9/10/1999
Dt Document Closed:
Agency Involved:
SAC Action Class:

Discharger Report:
Material Group:
Client Type:
Sector Type:
Source Type:
Nearest Watercourse:
Site Name:
Site Address:
Site District Office:
Site County/District:
Site Postal Code:
Site Region:
Site Municipality: 20101
Site Lot:
Site Conc:
Northing:
Easting: FD
Site Geo Ref Accu:
Site Geo Ref Meth:
Site Map Datum:

Incident Reason: ADVERSE ROAD CONDITION
Incident Summary: PROVIGO DISTRIBUTION-20 LDIESEL FROM TRUCK AT HWY EXIT,FD, WILL CLEANUP.

Site: HWY 417 ONRAMP AT TERRY FOX EXIT<UNOFFICIAL> Ottawa ON **Database:** SPL

Ref No:	5448-5KXU3S	Discharger Report:	
Site No:		Material Group:	Oil
Incident Dt:	3/24/2003	Client Type:	
Year:		Sector Type:	
Incident Cause:		Source Type:	
Incident Event:		Nearest Watercourse:	
Contaminant Code:	15	Site Name:	HWY 417 ONRAMP AT TERRY FOX EXIT<UNOFFICIAL>
Contaminant Name:	HYDRAULIC OIL	Site Address:	
Contaminant Limit 1:		Site District Office:	Ottawa
Contam Limit Freq 1:		Site County/District:	
Contaminant UN No 1:		Site Postal Code:	
Contaminant Qty:	68 L	Site Region:	Eastern
Environment Impact:	Possible	Site Municipality:	Ottawa
Nature of Impact:	Soil Contamination	Site Lot:	
Receiving Medium:	Land	Site Conc:	
Receiving Env:		Northing:	
Health/Env Conseq:		Easting:	
MOE Response:		Site Geo Ref Accu:	
Dt MOE Arvl on Scn:		Site Geo Ref Meth:	
MOE Reported Dt:	3/24/2003	Site Map Datum:	
Dt Document Closed:			
Agency Involved:			
SAC Action Class:	Spill to Land		
Incident Reason:			
Incident Summary:	Dundas Drilling- 68 L hydr.oil to ditch, cleaning		

Site: TRANSPORT TRUCK HWY 417 AT MILE MARKER 5, EASTBOUND MOTOR VEHICLE (OPERATING FLUID) OTTAWA CITY ON **Database:** SPL

Ref No:	233267	Discharger Report:	
Site No:		Material Group:	
Incident Dt:	7/25/2002	Client Type:	
Year:		Sector Type:	
Incident Cause:	OTHER TRANSPORTATION ACCIDENT	Source Type:	
Incident Event:		Nearest Watercourse:	
Contaminant Code:		Site Name:	
Contaminant Name:		Site Address:	
Contaminant Limit 1:		Site District Office:	
Contam Limit Freq 1:		Site County/District:	
Contaminant UN No 1:		Site Postal Code:	
Contaminant Qty:		Site Region:	
Environment Impact:	POSSIBLE	Site Municipality:	20107
Nature of Impact:	Soil contamination	Site Lot:	
Receiving Medium:	LAND	Site Conc:	
Receiving Env:		Northing:	
Health/Env Conseq:		Easting:	
MOE Response:		Site Geo Ref Accu:	
Dt MOE Arvl on Scn:		Site Geo Ref Meth:	
MOE Reported Dt:	7/25/2002	Site Map Datum:	
Dt Document Closed:			
Agency Involved:	OPP,MTO		
SAC Action Class:			
Incident Reason:	UNKNOWN		
Incident Summary:	BELFAST FRUIT INC. MVA PUT TRUCK IN DITCH. DIE-SEL FROM SADDLE TANKS.		

Site: Wilway Transport<UNOFFICIAL> Highway 417 eastbound, panmure exit(exit 162) MVA - HIGHWAY 417 EASTBOUND AT PANMURE EXIT (EXIT 163)<UNOFFICIAL> Ottawa ON **Database:** SPL

Ref No:	5853-6SC638	Discharger Report:	
Site No:		Material Group:	Oils
Incident Dt:	8/3/2006	Client Type:	
Year:		Sector Type:	Transport Truck
Incident Cause:	Other Transport Accident	Source Type:	
Incident Event:		Nearest Watercourse:	
Contaminant Code:	13	Site Name:	HIGHWAY 417 EASTBOUND, PANMURE EXIT(EXIT 162)
Contaminant Name:	DIESEL FUEL	Site Address:	HIGHWAY 417 EASTBOUND, PANMURE EXIT(EXIT 162)
Contaminant Limit 1:		Site District Office:	Ottawa
Contam Limit Freq 1:		Site County/District:	
Contaminant UN No 1:		Site Postal Code:	
Contaminant Qty:	50 L	Site Region:	
Environment Impact:	Confirmed	Site Municipality:	Ottawa
Nature of Impact:	Soil Contamination; Vegetation Damage	Site Lot:	
Receiving Medium:	Land	Site Conc:	
Receiving Env:		Northing:	
Health/Env Conseq:		Easting:	
MOE Response:		Site Geo Ref Accu:	
Dt MOE Arvl on Scn:		Site Geo Ref Meth:	
MOE Reported Dt:	8/3/2006	Site Map Datum:	
Dt Document Closed:			
Agency Involved:			
SAC Action Class:			
Incident Reason:	Equipment/Vehicles		
Incident Summary:	MVA: Hwy 417 eastbnd, Panmure exit, diesel to median		

Site: TRANSPORT TRUCK
HWY. 417 MOTOR VEHICLE (OPERATING FLUID) OTTAWA ON

Database:
SPL

Ref No:	191523	Discharger Report:	
Site No:		Material Group:	
Incident Dt:	12/4/2000	Client Type:	
Year:		Sector Type:	
Incident Cause:	TRUCK/TRAILER OVERTURN	Source Type:	
Incident Event:		Nearest Watercourse:	
Contaminant Code:		Site Name:	
Contaminant Name:		Site Address:	
Contaminant Limit 1:		Site District Office:	
Contam Limit Freq 1:		Site County/District:	
Contaminant UN No 1:		Site Postal Code:	
Contaminant Qty:		Site Region:	
Environment Impact:	POSSIBLE	Site Municipality:	20107
Nature of Impact:	Soil contamination	Site Lot:	
Receiving Medium:	LAND	Site Conc:	
Receiving Env:		Northing:	
Health/Env Conseq:		Easting:	
MOE Response:		Site Geo Ref Accu:	
Dt MOE Arvl on Scn:		Site Geo Ref Meth:	
MOE Reported Dt:	12/4/2000	Site Map Datum:	
Dt Document Closed:			
Agency Involved:			
SAC Action Class:			
Incident Reason:	OTHER		
Incident Summary:	RSR ENVIRONMENTAL:SPILL OF 50-100 L DIESEL DUE TO ROLLOVER. CONTAINED.		

Site: LECLAIR FUELS LTD.
HWY 417 BTWN INNIS & PKWY TANK TRUCK (CARGO) OTTAWA CITY ON

Database:
SPL

Ref No:	4525	Discharger Report:	
Site No:		Material Group:	
Incident Dt:	5/31/1988	Client Type:	
Year:		Sector Type:	
Incident Cause:	ABOVE-GROUND TANK LEAK	Source Type:	
Incident Event:		Nearest Watercourse:	

Contaminant Code:		Site Name:	
Contaminant Name:		Site Address:	
Contaminant Limit 1:		Site District Office:	
Contam Limit Freq 1:		Site County/District:	
Contaminant UN No 1:		Site Postal Code:	
Contaminant Qty:		Site Region:	
Environment Impact:		Site Municipality:	20101
Nature of Impact:		Site Lot:	
Receiving Medium:	LAND	Site Conc:	
Receiving Env:		Northing:	
Health/Env Conseq:		Easting:	
MOE Response:		Site Geo Ref Accu:	
Dt MOE Arvl on Scn:		Site Geo Ref Meth:	
MOE Reported Dt:	5/31/1988	Site Map Datum:	
Dt Document Closed:			
Agency Involved:			
SAC Action Class:			
Incident Reason:	UNKNOWN		
Incident Summary:	15 LTR. DIESEL TO HWY. FROM TRUCK FUEL TANK.		

Site: 417 EASTBOUND - NICHOLAS ON RAMP<UNOFFICIAL> Ottawa ON **Database:** SPL

Ref No:	1151-5R4LZR	Discharger Report:	
Site No:		Material Group:	Oil
Incident Dt:	9/5/2003	Client Type:	
Year:		Sector Type:	Other
Incident Cause:	Other Discharges	Source Type:	
Incident Event:		Nearest Watercourse:	
Contaminant Code:	13	Site Name:	417 EASTBOUND - NICHOLAS ON RAMP<UNOFFICIAL>
Contaminant Name:	DIESEL FUEL	Site Address:	
Contaminant Limit 1:		Site District Office:	Ottawa
Contam Limit Freq 1:		Site County/District:	
Contaminant UN No 1:		Site Postal Code:	
Contaminant Qty:	100 L	Site Region:	Eastern
Environment Impact:	Not Anticipated	Site Municipality:	Ottawa
Nature of Impact:		Site Lot:	
Receiving Medium:	Land	Site Conc:	
Receiving Env:		Northing:	
Health/Env Conseq:		Easting:	
MOE Response:		Site Geo Ref Accu:	
Dt MOE Arvl on Scn:		Site Geo Ref Meth:	
MOE Reported Dt:	9/5/2003	Site Map Datum:	
Dt Document Closed:			
Agency Involved:			
SAC Action Class:			
Incident Reason:	Other - Reason not otherwise defined		
Incident Summary:	Hwy 417 - diesel spill		

Site: S. 21(1)(f) **Database:** SPL
Hwy 417 E between Vanier Parkway and St. Laurent<UNOFFICIAL> Ottawa ON

Ref No:	1301-6XAFSY	Discharger Report:	
Site No:		Material Group:	Oil
Incident Dt:		Client Type:	
Year:		Sector Type:	Other Motor Vehicle
Incident Cause:	Other Transport Accident	Source Type:	
Incident Event:		Nearest Watercourse:	
Contaminant Code:	13	Site Name:	Hwy 417 E between Vanier Parkway and St. Laurent<UNOFFICIAL>
Contaminant Name:	DIESEL FUEL	Site Address:	
Contaminant Limit 1:		Site District Office:	
Contam Limit Freq 1:		Site County/District:	
Contaminant UN No 1:		Site Postal Code:	
Contaminant Qty:	150 L	Site Region:	
Environment Impact:	Not Anticipated	Site Municipality:	Ottawa

Nature of Impact: Surface Water Pollution
Receiving Medium: Water
Receiving Env:
Health/Env Conseq:
MOE Response: No Field Response
Dt MOE Arvl on Scn:
MOE Reported Dt: 1/9/2007
Dt Document Closed: 2/23/2007
Agency Involved:
SAC Action Class:
Incident Reason:
Incident Summary: Andleaur Transp & S. 21(1)(f) - 150 L diesel to Hwy and sewer

Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Geo Ref Meth:
Site Map Datum:

Site: **OLRT Constructors<UNOFFICIAL>**
Hurdman Bridge NE side Ottawa ON

Database:
SPL

Ref No: 0317-9HRLBM
Site No: NA
Incident Dt: 2014/04/01
Year:
Incident Cause: Unknown / N/A
Incident Event:
Contaminant Code: 15
Contaminant Name: OIL (PETROLEUM BASED, NOT SPECIFIED)
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Contaminant Qty: 0 other - see incident description
Environment Impact: Not Anticipated
Nature of Impact: Surface Water Pollution
Receiving Medium:
Receiving Env:
Health/Env Conseq:
MOE Response: No Field Response
Dt MOE Arvl on Scn:
MOE Reported Dt: 2014/04/01
Dt Document Closed: 2014/10/29
Agency Involved:
SAC Action Class: Watercourse Spills
Incident Reason: Unknown / N/A
Incident Summary: OLRT Constructors: Sheen at outfall, no source

Discharger Report:
Material Group:
Client Type:
Sector Type: Unknown / N/A
Source Type:
Nearest Watercourse:
Site Name: 417 & Vanier Parkway <UNOFFICIAL>
Site Address: Hurdman Bridge NE side
Site District Office:
Site County/District:
Site Postal Code:
Site Region:
Site Municipality: Ottawa
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Geo Ref Meth:
Site Map Datum:

Site: **OLRT Constructors**
Hurdman Park Ottawa ON

Database:
SPL

Ref No: 6388-9ZDMP3
Site No: NA
Incident Dt: 8/14/2015
Year:
Incident Cause:
Incident Event:
Contaminant Code: 98
Contaminant Name: UNKNOWN
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Contaminant Qty: 2 L
Environment Impact:
Nature of Impact:
Receiving Medium:
Receiving Env:
Health/Env Conseq:
MOE Response: No
Dt MOE Arvl on Scn:
MOE Reported Dt: 8/14/2015
Dt Document Closed:
Agency Involved:

Discharger Report:
Material Group:
Client Type:
Sector Type: Unknown / N/A
Source Type:
Nearest Watercourse:
Site Name: construction site<UNOFFICIAL>
Site Address: Hurdman Park
Site District Office:
Site County/District:
Site Postal Code:
Site Region:
Site Municipality: Ottawa
Site Lot:
Site Conc:
Northing: 4815175
Easting: 542241
Site Geo Ref Accu:
Site Geo Ref Meth:
Site Map Datum: NAD83

SAC Action Class: Land Spills
Incident Reason: Unknown / N/A
Incident Summary: Ottawa - 2L unknown hydrocarbon to ground, cleaning

Site: **Hughson Barriers Inc.**
Hurdman Road and Lees Road; Highway 417 at Rideau River **Ottawa; Ottawa ON** **Database:**
SPL

Ref No: 7112-9Z3SHS
Site No: NA; NA
Incident Dt: 7/30/2015
Year:
Incident Cause:
Incident Event:
Contaminant Code: 27
Contaminant Name: CONCRETE
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Contaminant Qty: 20 L
Environment Impact:
Nature of Impact:
Receiving Medium:
Receiving Env:
Health/Env Conseq:
MOE Response: No
Dt MOE Arvl on Scn:
MOE Reported Dt: 8/4/2015
Dt Document Closed: 8/25/2015
Agency Involved:
SAC Action Class: Land Spills
Incident Reason: Unknown / N/A
Incident Summary: Hughson Barriers Inc- Concrete Wash-out to Ground, clnd

Discharger Report:
Material Group:
Client Type:
Sector Type: Miscellaneous Industrial
Source Type:
Nearest Watercourse:
Site Name: Ground Spill<UNOFFICIAL>; Ground Spill<UNOFFICIAL>
Site Address: Hurdman Road and Lees Road; Highway 417 at Rideau River
Site District Office:
Site County/District:
Site Postal Code:
Site Region:
Site Municipality: Ottawa; Ottawa
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Geo Ref Meth:
Site Map Datum:

Site: **UNKNOWN**
STORM SEWER IN HURDMAN PARK NEAR THE HURDMAN TRANSITWAY STATION **OTTAWA CITY ON** **Database:**
SPL

Ref No: 158229
Site No:
Incident Dt: 7/21/1998
Year:
Incident Cause: UNKNOWN
Incident Event:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Contaminant Qty:
Environment Impact: CONFIRMED
Nature of Impact: Water course or lake
Receiving Medium: WATER
Receiving Env:
Health/Env Conseq:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 7/21/1998
Dt Document Closed:
Agency Involved:
SAC Action Class:
Incident Reason: UNKNOWN
Incident Summary: SOURCE UNKNOWN - OILY WATER IN STORM SEWER.

Discharger Report:
Material Group:
Client Type:
Sector Type:
Source Type:
Nearest Watercourse:
Site Name:
Site Address:
Site District Office:
Site County/District:
Site Postal Code:
Site Region:
Site Municipality: 20101
Site Lot:
Site Conc:
Northing:
Easting: OTTAWA/CARLETON REGION
Site Geo Ref Accu:
Site Geo Ref Meth:
Site Map Datum:

Site: **Enbridge Gas Distribution Inc.** **Database:**
SPL

HWY 417 at Vars Bridge Ottawa ON

Ref No: 6748-7X7R4U
Site No:
Incident Dt:
Year:
Incident Cause:
Incident Event:
Contaminant Code: 46
Contaminant Name: USED MOTOR OIL
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Contaminant Qty: 30 L
Environment Impact: Not Anticipated
Nature of Impact:
Receiving Medium:
Receiving Env:
Health/Env Conseq:
MOE Response: No Field Response
Dt MOE Arvl on Scn:
MOE Reported Dt: 10/26/2009
Dt Document Closed: 1/8/2010
Agency Involved:
SAC Action Class: Highway Spills (usually highway accidents)
Incident Reason:
Incident Summary: Motor Vehicle-30 L Used Motor Oil to Hwy 417.

Discharger Report:
Material Group:
Client Type:
Sector Type:
Source Type:
Nearest Watercourse:
Site Name: HWY 417 at Vars Bridge<UNOFFICIAL>
Site Address:
Site District Office:
Site County/District:
Site Postal Code:
Site Region:
Site Municipality:
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Geo Ref Meth:
Site Map Datum:

Site: Tomlinson Environmental Services Ltd.; SNC-Lavalin Constructors (Pacific) Inc
Highway 417 at Hurdman Bridge Ottawa ON

Database:
SPL

Ref No: 1322-9K2JFE
Site No: NA
Incident Dt: 2014/05/07
Year:
Incident Cause: Leak/Break
Incident Event:
Contaminant Code: 41
Contaminant Name: WATER/SEDIMENT
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Contaminant Qty: 5 L
Environment Impact: Not Anticipated
Nature of Impact: Surface Water Pollution
Receiving Medium:
Receiving Env:
Health/Env Conseq:
MOE Response: No Field Response
Dt MOE Arvl on Scn:
MOE Reported Dt: 2014/05/12
Dt Document Closed:
Agency Involved:
SAC Action Class: Watercourse Spills
Incident Reason: Unknown / N/A
Incident Summary: OLRT: Spill of Concrete Drilling Fluid to Hwy 417 CB

Discharger Report:
Material Group:
Client Type:
Sector Type: Drilling Operation
Source Type:
Nearest Watercourse:
Site Name: OLRT: Highway 417 @ Hurdman Bridge<UNOFFICIAL> Highway 417 at Hurdman Bridge
Site Address:
Site District Office:
Site County/District:
Site Postal Code:
Site Region:
Site Municipality: Ottawa
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Geo Ref Meth:
Site Map Datum:

Site: 417 eastbound, east of exit 104 Ottawa ON

Database:
SPL

Ref No: 2172-9F4M4N
Site No:
Incident Dt: 2014/01/06
Year:
Incident Cause: Leak/Break
Incident Event:

Discharger Report:
Material Group:
Client Type:
Sector Type: Motor Vehicle
Source Type:
Nearest Watercourse:

Contaminant Code:	13	Site Name:	MVA<UNOFFICIAL>
Contaminant Name:	DIESEL FUEL	Site Address:	417 eastbound, east of exit 104
Contaminant Limit 1:		Site District Office:	
Contam Limit Freq 1:		Site County/District:	
Contaminant UN No 1:		Site Postal Code:	
Contaminant Qty:	100 L	Site Region:	
Environment Impact:	Confirmed	Site Municipality:	Ottawa
Nature of Impact:	Soil Contamination	Site Lot:	
Receiving Medium:		Site Conc:	
Receiving Env:		Northing:	
Health/Env Conseq:		Easting:	
MOE Response:		Site Geo Ref Accu:	
Dt MOE Arvl on Scn:		Site Geo Ref Meth:	
MOE Reported Dt:	2014/01/06	Site Map Datum:	
Dt Document Closed:			
Agency Involved:			
SAC Action Class:	Land Spills		
Incident Reason:	Weather Conditions		
Incident Summary:	Day & Ross: diesel on Hwy 417 exit 104		

Site: *Drain-All Ltd.
Hwy 417 Westbound near Carling off-ramp Ottawa ON*

Database:
SPL

Ref No:	6127-8K6T47	Discharger Report:	
Site No:		Material Group:	
Incident Dt:	7/27/2011	Client Type:	
Year:		Sector Type:	Motor Vehicle
Incident Cause:	Pipe Or Hose Leak	Source Type:	
Incident Event:		Nearest Watercourse:	
Contaminant Code:	15	Site Name:	Queensway Hwy 417<UNOFFICIAL>
Contaminant Name:	MOTOR OIL	Site Address:	Hwy 417 Westbound near Carling off-ramp
Contaminant Limit 1:		Site District Office:	
Contam Limit Freq 1:		Site County/District:	
Contaminant UN No 1:		Site Postal Code:	
Contaminant Qty:	10 L	Site Region:	
Environment Impact:	Not Anticipated	Site Municipality:	Ottawa
Nature of Impact:		Site Lot:	
Receiving Medium:		Site Conc:	
Receiving Env:		Northing:	
Health/Env Conseq:		Easting:	
MOE Response:	No Field Response	Site Geo Ref Accu:	
Dt MOE Arvl on Scn:		Site Geo Ref Meth:	
MOE Reported Dt:	7/27/2011	Site Map Datum:	
Dt Document Closed:			
Agency Involved:			
SAC Action Class:	Highway Spills (usually highway accidents)		
Incident Reason:	Equipment/Vehicles		
Incident Summary:	10 L's of motor oil to Queensway, cleaned		

Site: *central transit way adjacent to hwy 417 between nicholas ave and lees ave Ottawa ON*

Database:
SPL

Ref No:	8444-9FTKCZ	Discharger Report:	
Site No:		Material Group:	
Incident Dt:	2014/01/29	Client Type:	
Year:		Sector Type:	Unknown / N/A
Incident Cause:	Unknown / N/A	Source Type:	
Incident Event:		Nearest Watercourse:	
Contaminant Code:	99	Site Name:	Construction job site<UNOFFICIAL>
Contaminant Name:	WATER	Site Address:	central transit way adjacent to hwy 417 between nicholas ave and lees ave
Contaminant Limit 1:		Site District Office:	
Contam Limit Freq 1:		Site County/District:	
Contaminant UN No 1:		Site Postal Code:	
Contaminant Qty:	200 L	Site Region:	
Environment Impact:	Confirmed	Site Municipality:	Ottawa
Nature of Impact:	Surface Water Pollution	Site Lot:	

Receiving Medium:
Receiving Env:
Health/Env Conseq:
MOE Response: Referral to others
Dt MOE Arvl on Scn:
MOE Reported Dt: 2014/01/29
Dt Document Closed:
Agency Involved:
SAC Action Class: Land Spills
Incident Reason: Unknown / N/A
Incident Summary: RW Tomlinson: Dewatering to CB,

Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Geo Ref Meth:
Site Map Datum:

Site: **City of Ottawa**
Hwy 417 West bound, between the Carling Ave Exit and the Maitland Exit **Ottawa ON**

Database:
SPL

Ref No: 5074-6J2RLX
Site No:
Incident Dt: 11/11/2005
Year:
Incident Cause: Pipe Or Hose Leak
Incident Event:
Contaminant Code:
Contaminant Name: ETHYLENE GLYCOL (ANTIFREEZE)
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Contaminant Qty:
Environment Impact: Confirmed
Nature of Impact: Soil Contamination
Receiving Medium: Land
Receiving Env:
Health/Env Conseq:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 11/11/2005
Dt Document Closed:
Agency Involved:
SAC Action Class: Land Spills
Incident Reason: Unknown - Reason not determined
Incident Summary: OC Transpo (Ottawa): 20L antifreeze to grnd, clng

Discharger Report: 0
Material Group: Chemical
Client Type:
Sector Type: Other Motor Vehicle
Source Type:
Nearest Watercourse:
Site Name: Bus # 6070 antifreeze leak<UNOFFICIAL>
Site Address:
Site District Office: Ottawa
Site County/District:
Site Postal Code:
Site Region:
Site Municipality: Ottawa
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Geo Ref Meth:
Site Map Datum:

Site: **Purolator Courier Ltd.**
Hwy 417 Eastbound @ Mile Marker 180 **Ottawa ON**

Database:
SPL

Ref No: 8553-8S9HPE
Site No:
Incident Dt: 10-MAR-12
Year:
Incident Cause: Other Transport Accident
Incident Event:
Contaminant Code: 13
Contaminant Name: DIESEL FUEL
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Contaminant Qty:
Environment Impact: Not Anticipated
Nature of Impact: Other Impact(s); Soil Contamination
Receiving Medium: Sewage - Municipal/Private and Commercial
Receiving Env:
Health/Env Conseq:
MOE Response: No Field Response
Dt MOE Arvl on Scn:
MOE Reported Dt: 10-MAR-12
Dt Document Closed:
Agency Involved:
SAC Action Class: Land Spills

Discharger Report:
Material Group:
Client Type:
Sector Type:
Source Type:
Nearest Watercourse:
Site Name: Transport Truck Accident<UNOFFICIAL>
Site Address: Hwy 417 Eastbound @ Mile Marker 180
Site District Office:
Site County/District:
Site Postal Code:
Site Region:
Site Municipality: Ottawa
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Geo Ref Meth:
Site Map Datum:

Incident Reason: Spill
Incident Summary: TT Accident: 300L to grnd

Site: Glenview Iron and Steel Ltd.<UNOFFICIAL>
Hwy 417 - Woodroffe W. Bnd, On-Ramp Ottawa ON

Database:
SPL

Ref No: 0000-5NA2HN
Site No:
Incident Dt: 6/6/2003
Year:
Incident Cause: Other Transport Accident
Incident Event:
Contaminant Code: 13

Discharger Report:
Material Group: Oil
Client Type:
Sector Type: Transport Truck
Source Type:
Nearest Watercourse:
Site Name: HWY 417 - WOODROFFE W. BND, ON-RAMP<UNOFFICIAL>

Contaminant Name: DIESEL FUEL
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Contaminant Qty: 50 L
Environment Impact: Not Anticipated
Nature of Impact: Soil Contamination
Receiving Medium: Land

Site Address:
Site District Office: Ottawa
Site County/District:
Site Postal Code:
Site Region: Eastern
Site Municipality: Ottawa

Receiving Env:
Health/Env Conseq:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 6/6/2003
Dt Document Closed:

Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Geo Ref Meth:
Site Map Datum:

Agency Involved:
SAC Action Class: Spill to Highway (Accident); Spill to Land
Incident Reason:
Incident Summary: Ottawa Hwy 417 - MVA, diesel to ditch

Site: Hwy 417 to the corner of Rideau and King Edward Ottawa ON

Database:
SPL

Ref No: 5750-74BMWG
Site No:
Incident Dt:
Year:
Incident Cause: Unknown
Incident Event:
Contaminant Code: 15
Contaminant Name: OIL (PETROLEUM BASED, NOT SPECIFIED)
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Contaminant Qty: 50 L
Environment Impact: Not Anticipated
Nature of Impact: Other Impact(s)
Receiving Medium: Land
Receiving Env:
Health/Env Conseq:
MOE Response: No Field Response
Dt MOE Arvl on Scn:
MOE Reported Dt: 6/19/2007
Dt Document Closed: 12/8/2007

Discharger Report:
Material Group: Oil
Client Type:
Sector Type: Transport Truck
Source Type:
Nearest Watercourse:
Site Name: Oil Spill on the road<UNOFFICIAL>
Site Address:
Site District Office:
Site County/District:
Site Postal Code:
Site Region:
Site Municipality: Ottawa
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Geo Ref Meth:
Site Map Datum:

Agency Involved:
SAC Action Class:
Incident Reason: Unknown - Reason not determined
Incident Summary: UnknTransport Truck: 50L Oil to Road, Cln

Site: Unknown<UNOFFICIAL>
Hwy 417, near Queen Elizabeth Dr Ottawa ON

Database:
SPL

Ref No:	4563-B32N6F	Discharger Report:	
Site No:	NA	Material Group:	
Incident Dt:	2018/07/26	Client Type:	
Year:		Sector Type:	Miscellaneous Industrial
Incident Cause:		Source Type:	Motor Vehicle
Incident Event:	Collision/Accident	Nearest Watercourse:	
Contaminant Code:	15	Site Name:	CB & asphalt<UNOFFICIAL>
Contaminant Name:	HYDRAULIC OIL	Site Address:	Hwy 417, near Queen Elizabeth Dr
Contaminant Limit 1:		Site District Office:	Ottawa
Contam Limit Freq 1:	n/a	Site County/District:	
Contaminant UN No 1:	n/a	Site Postal Code:	
Contaminant Qty:	0 other - see incident description	Site Region:	Eastern
Environment Impact:		Site Municipality:	Ottawa
Nature of Impact:		Site Lot:	
Receiving Medium:		Site Conc:	
Receiving Env:	Land; Source Water Zone	Northing:	
Health/Env Conseq:	0 - No Impact	Easting:	
MOE Response:	Yes	Site Geo Ref Accu:	
Dt MOE Arvl on Scn:	2018/07/26	Site Geo Ref Meth:	
MOE Reported Dt:	2018/07/26	Site Map Datum:	
Dt Document Closed:	2018/07/31		
Agency Involved:			
SAC Action Class:	Highway Spills (usually highway accidents)		
Incident Reason:	Operator/Human Error		
Incident Summary:	MVA; hydraulic oil to CB on hwy 417; unknown containment/cleanup		

Site: **Ottawa LRT <UNOFFICIAL>**
Hwy 417 near Lees Avenue Ottawa ON

Database:
SPL

Ref No:	0640-9MYHCJ	Discharger Report:	
Site No:	NA	Material Group:	
Incident Dt:	2014/08/07	Client Type:	
Year:		Sector Type:	Pipeline/Components
Incident Cause:	Leak/Break	Source Type:	
Incident Event:		Nearest Watercourse:	
Contaminant Code:	15	Site Name:	highway construction site Hwy 417 at Hurdman Bridge<UNOFFICIAL>
Contaminant Name:	HYDRAULIC OIL	Site Address:	Hwy 417 near Lees Avenue
Contaminant Limit 1:		Site District Office:	
Contam Limit Freq 1:		Site County/District:	
Contaminant UN No 1:		Site Postal Code:	
Contaminant Qty:	15 L	Site Region:	
Environment Impact:	Not Anticipated	Site Municipality:	Ottawa
Nature of Impact:	Soil Contamination	Site Lot:	
Receiving Medium:		Site Conc:	
Receiving Env:		Northing:	
Health/Env Conseq:		Easting:	
MOE Response:		Site Geo Ref Accu:	
Dt MOE Arvl on Scn:		Site Geo Ref Meth:	
MOE Reported Dt:	2014/08/14	Site Map Datum:	
Dt Document Closed:			
Agency Involved:			
SAC Action Class:	Land Spills		
Incident Reason:	Equipment Failure		
Incident Summary:	Ottawa LRT: late report of hyd oil spill to grnd		

Site: **Hwy 417 Under Overpass @ Castlefrank Road Ottawa ON**

Database:
SPL

Ref No:	7705-67XN2B	Discharger Report:	
Site No:		Material Group:	Oil
Incident Dt:	12/22/2004	Client Type:	
Year:		Sector Type:	Transport Truck
Incident Cause:	Other Transport Accident	Source Type:	
Incident Event:		Nearest Watercourse:	
Contaminant Code:	13	Site Name:	MVA<UNOFFICIAL>
Contaminant Name:	DIESEL FUEL	Site Address:	

Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Contaminant Qty:
Environment Impact: Confirmed
Nature of Impact: Groundwater Pollution; Other Impact(s); Soil Contamination; Surface Water Pollution Land & Water
Receiving Medium:
Receiving Env:
Health/Env Conseq:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 12/23/2004
Dt Document Closed:
Agency Involved:
SAC Action Class:
Incident Reason: Weather
Incident Summary: MVA: 200L diesel to Ditch

Site District Office: Ottawa
Site County/District:
Site Postal Code:
Site Region: Eastern
Site Municipality: Ottawa
Site Lot:

Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Geo Ref Meth:
Site Map Datum:

Site: Hwy 417 at Hurdman Bridge, SW Corner Ottawa ON

Database:
SPL

Ref No: 6747-9RDR6G
Site No: NA
Incident Dt: 2014/12/01
Year:
Incident Cause: Unknown / N/A
Incident Event:
Contaminant Code: 13
Contaminant Name: HYDROCARBON LIGHT
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Contaminant Qty: 4 L
Environment Impact:
Nature of Impact: Land
Receiving Medium:
Receiving Env:
Health/Env Conseq:
MOE Response: N
Dt MOE Arvl on Scn:
MOE Reported Dt: 2014/12/01
Dt Document Closed:
Agency Involved:
SAC Action Class: Land Spills
Incident Reason: Unknown / N/A
Incident Summary: Ottawa LRT Project - 4L petroleum to grd, cleaning

Discharger Report:
Material Group:
Client Type:
Sector Type: Unknown / N/A
Source Type:
Nearest Watercourse:
Site Name: Ottawa LRT Project <UNOFFICIAL>
Site Address: Hwy 417 at Hurdman Bridge, SW Corner
Site District Office:
Site County/District:
Site Postal Code:
Site Region:
Site Municipality: Ottawa
Site Lot:
Site Conc:
Northing: 5029450
Easting: 448057
Site Geo Ref Accu:
Site Geo Ref Meth:
Site Map Datum:

Site: Penske Truck Leasing Canada Inc.
 Hwy 417 east, at exit 88, Vars Ottawa ON

Database:
SPL

Ref No: 5218-5LGE4L
Site No:
Incident Dt: 4/10/2003
Year:
Incident Cause:
Incident Event:
Contaminant Code: 13
Contaminant Name: DIESEL FUEL
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Contaminant Qty: 100 L
Environment Impact: Possible
Nature of Impact: Soil Contamination
Receiving Medium: Land
Receiving Env:

Discharger Report:
Material Group: Oil
Client Type:
Sector Type: Transport Truck
Source Type:
Nearest Watercourse:
Site Name: MVA SITE<UNOFFICIAL>
Site Address:
Site District Office: Ottawa
Site County/District:
Site Postal Code:
Site Region: Eastern
Site Municipality: Ottawa
Site Lot:
Site Conc:
Northing:

Health/Env Conseq:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt:
Dt Document Closed:
Agency Involved:
SAC Action Class:
Incident Reason:
Incident Summary:

4/10/2003

Spill to Highway (Accident)

Summit Food: truck diesel to shoulder. contained

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

Appendix: Database Descriptions

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

Abandoned Aggregate Inventory:

Provincial

AGR

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

Government Publication Date: Sept 2002*

Aggregate Inventory:

Provincial

AGR

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

Government Publication Date: Up to Sep 2018

Abandoned Mine Information System:

Provincial

AMIS

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

Government Publication Date: 1800-Nov 2016

Anderson's Waste Disposal Sites:

Private

ANDR

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

Government Publication Date: 1860s-Present

Automobile Wrecking & Supplies:

Private

AUWR

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

Government Publication Date: 1999-Jul 31, 2018

Borehole:

Provincial

BORE

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

Government Publication Date: 1875-Jul 2014

Certificates of Approval:

Provincial

CA

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

Government Publication Date: 1985-Oct 30, 2011*

Commercial Fuel Oil Tanks:

Provincial

CFOT

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

Government Publication Date: Feb 28, 2017

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: 1999-Jul 31, 2018

Compressed Natural Gas Stations:

Private

CNG

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

Government Publication Date: Dec 2012 - Jul 2018

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-Sep 2018

Certificates of Property Use:

Provincial

CPU

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

Government Publication Date: 1994-Jul 31, 2018

Drill Hole Database:

Provincial

DRL

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

Government Publication Date: 1886-Nov 30, 2017

Dry Cleaning Facilities:

Federal

DRYCLEANERS

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

Government Publication Date: Jan 2004-Dec 2016

Environmental Activity and Sector Registry:

Provincial

EASR

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

Government Publication Date: Oct 2011-Oct 31, 2018

Environmental Registry:

Provincial

EBR

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

Government Publication Date: 1994-Jul 31, 2018

Environmental Compliance Approval:

Provincial

ECA

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

Government Publication Date: Oct 2011-Oct 31, 2018

Environmental Effects Monitoring:

Federal

EEM

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

Government Publication Date: 1992-2007*

ERIS Historical Searches:

Private

EHS

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

Government Publication Date: 1999-Jul 31, 2018

Environmental Issues Inventory System:

Federal

EIIS

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

Government Publication Date: 1992-2001*

Emergency Management Historical Event:

Provincial

EMHE

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

Government Publication Date: Dec 31, 2016

List of TSSA Expired Facilities:

Provincial

EXP

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

Government Publication Date: Feb 28, 2017

Federal Convictions:

Federal

FCON

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

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land:

Federal

FCS

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

Government Publication Date: Jun 2000-Aug 2018

Fisheries & Oceans Fuel Tanks:

Federal

FOFT

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

Government Publication Date: 1964-Sep 2017

Fuel Storage Tank:

Provincial

FST

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

Government Publication Date: Feb 28, 2017

Fuel Storage Tank - Historic:

Provincial

FSTH

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

Government Publication Date: Pre-Jan 2010*

Ontario Regulation 347 Waste Generators Summary:

Provincial

GEN

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

Government Publication Date: 1986-June 30, 2018

Greenhouse Gas Emissions from Large Facilities:

Federal

GHG

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

Government Publication Date: 2013-Dec 2016

TSSA Historic Incidents:

Provincial

HINC

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

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks:

Federal

IAFT

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

Government Publication Date: 1950-Aug 2003*

TSSA Incidents:Provincial [INC](#)

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

Government Publication Date: Feb 28, 2017

Landfill Inventory Management Ontario:Provincial [LIMO](#)

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

Government Publication Date: Sep 30, 2017

Canadian Mine Locations:Private [MINE](#)

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

Government Publication Date: 1998-2009*

Environmental Penalty Annual Report:Provincial [MISA PENALTY](#)

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

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

Mineral Occurrences:Provincial [MNR](#)

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

Government Publication Date: 1846-Jan 2018

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

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

Government Publication Date: 1974-1994*

Non-Compliance Reports:Provincial [NCPL](#)

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

Government Publication Date: Dec 31, 2016

National Defense & Canadian Forces Fuel Tanks:Federal [NDFT](#)

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

Government Publication Date: Up to May 2001*

National Defense & Canadian Forces Spills:

Federal

NDSP

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

Government Publication Date: Mar 1999-Apr 2018

National Defence & Canadian Forces Waste Disposal Sites:

Federal

NDWD

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

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents:

Federal

NEBI

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

Government Publication Date: 2008-Jun 30, 2018

National Energy Board Wells:

Federal

NEBW

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

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES):

Federal

NEES

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

Government Publication Date: 1974-2003*

National PCB Inventory:

Federal

NPCB

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

Government Publication Date: 1988-2008*

National Pollutant Release Inventory:

Federal

NPRI

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

Government Publication Date: 1993-May 2017

Oil and Gas Wells:

Private

OGW

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

Government Publication Date: 1988-August 31, 2018

Ontario Oil and Gas Wells:

Provincial

OOGW

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

Government Publication Date: 1800-May 2018

Inventory of PCB Storage Sites:

Provincial

OPCB

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

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

Orders:

Provincial

ORD

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

Government Publication Date: 1994-Jul 31, 2018

Canadian Pulp and Paper:

Private

PAP

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

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

Parks Canada Fuel Storage Tanks:

Federal

PCFT

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

Government Publication Date: 1920-Jan 2005*

Pesticide Register:

Provincial

PES

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

Government Publication Date: 1988-Mar 2018

TSSA Pipeline Incidents:

Provincial

PINC

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

Government Publication Date: Feb 28, 2017

Private and Retail Fuel Storage Tanks:

Provincial

PRT

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

Government Publication Date: 1989-1996*

Permit to Take Water:

Provincial

PTTW

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

Government Publication Date: 1994-Jul 31, 2018

Ontario Regulation 347 Waste Receivers Summary:

Provincial

REC

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

Government Publication Date: 1986-2016

Record of Site Condition:

Provincial

RSC

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

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

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

Retail Fuel Storage Tanks:

Private

RST

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

Government Publication Date: 1999-Jul 31, 2018

Scott's Manufacturing Directory:

Private

SCT

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

Government Publication Date: 1992-Mar 2011*

Ontario Spills:

Provincial

SPL

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

Government Publication Date: 1988-Jul 2018

Wastewater Discharger Registration Database:

Provincial

SRDS

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

Government Publication Date: 1990-Dec 31, 2016

Anderson's Storage Tanks:

Private

TANK

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

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks:

Federal

TCFT

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

Government Publication Date: 1970-Aug 2017

TSSA Variances for Abandonment of Underground Storage Tanks:

Provincial

VAR

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

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

Government Publication Date: Feb 28, 2017

Waste Disposal Sites - MOE CA Inventory:

Provincial

[WDS](#)

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

Government Publication Date: Oct 2011-Oct 31, 2018

Waste Disposal Sites - MOE 1991 Historical Approval Inventory:

Provincial

[WDSH](#)

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

Government Publication Date: Up to Oct 1990*

Water Well Information System:

Provincial

[WWIS](#)

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

Government Publication Date: Dec 31, 2017

Definitions

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

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

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

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

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

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

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

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

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

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

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

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

Appendix D

Environmental Regulatory Correspondence

Vicki Laymann

From: Public Information Services <publicinformationsservices@tssa.org>
Sent: Tuesday, November 20, 2018 10:36 AM
To: Thomas Neulieb
Subject: RE: Ref 11186719-E1: Environmental Site Assessment - TSSA Records Search Request

Good morning Thomas,

Thank you for your request for confirmation of public information.

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

For a further search in our archives please complete our release of public information form found at https://www.tssa.org/en/about-tssa/release-of-public-information.aspx?_mid_=392 and email the completed form to publicinformationsservices@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.

Kind regards,

Yalini



Yalini Kanagendran | Public Information Agent

Facilities

345 Carlingview Drive

Toronto, Ontario M9W 6N9

Tel: +1-416-734-3449 | Fax: +1-416-231-6183 | E-Mail: publicinformationsservices@tssa.org

www.tssa.org



From: Thomas.Neulieb@ghd.com <Thomas.Neulieb@ghd.com>
Sent: November 19, 2018 1:10 PM
To: Public Information Services <publicinformationsservices@tssa.org>
Cc: Scott.Wallis@ghd.com
Subject: Ref 11186719-E1: Environmental Site Assessment - TSSA Records Search Request

Good Afternoon,

Could you please search the TSSA database for records of fuel storage tanks, spills, incidents or infractions for the following address:

- 36 Robinson Avenue, Ottawa, ON, K1N 8N9

Thank you for your time.

Sincerely,

Thomas Neulieb, M.Sc.
Technologist

GHD

Proudly employee owned

T: +1 613 727 0510 | M: +1 613 806 4758 | E: Thomas.Neulieb@ghd.com
179 Colonnade Road South Suite 400 Ottawa Ontario K2E 7J4 Canada | www.ghd.com

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0766DEAW_FOI (2017/03)

Ministry of the Environment,
Conservation and Parks

Freedom of Information and
Protection of Privacy Office

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

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

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

12^e étage
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Ministry of the Environment,
Conservation and Parks

Ministère de l'Environnement, de
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Access and Privacy Office

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Toronto ON M4V 1M2
Tél. : (416) 314-4075

November 30, 2018

Thomas Neulieb
GHD
179 Colonnade Drive, Suite 400
Ottawa, ON K2E7J4

Dear Thomas Neulieb:

RE: *Freedom of Information and Protection of Privacy Act Request*
Our File #: A-2018-07726, Your Reference #: 11186719-E1

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 36 Robinson Avenue, Ottawa.

After a thorough search of the Ministry's Ottawa District Office, Investigations and Enforcement Branch, Environmental Assessment and Permissions Branch, Environmental Monitoring and Reporting Branch, Sector Compliance Branch and Safe Drinking Water Branch, records were located in response to your request. It is my decision to provide partial access to the attached information as personal information has been removed to protect privacy (Section 21(1)(f) of the Act).

In accordance with Section 57 of the *Freedom of Information and Protection of Privacy Act*, detailed below are our charges:

• Search Time 1 hour @ \$30/hour	\$30.00
• Copying 2 pages @ \$0.20/page	\$0.40
• Delivery	\$3.00
• Total	\$33.40
• Deposit Received	- \$30.00
• BALANCE WAIVED (NOT REQUIRED)	\$3.40

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

If you have any questions regarding this matter, please contact Liz Mice at (416) 312-0550 or



OCCURENCE REPORT

Location of Occurrence: OTTAWA CITY 36 ROBINSON AVENUE OTTAWA, ONTARIO Reg: 4 Dist: OT Municipality: 20101		Source: GARY'S CUMSTOM CYCLE Sector: SI Source: OT SIC: UTM: N: <input type="checkbox"/> E: <input type="checkbox"/> Zone: <input type="checkbox"/>	
Entered: :	ORIS No. 9240201428	Abstracts:	Diaries:
Received By: TRUDY HERFKENS		Batch: 0	I. E. B. No.
Occurrence Type: N	Subtype: 99	Occurrence Date:	
Work Plan:		Occurrence Time:	:
<div>s.21</div>		Report to MOE : 1992/10/26 09:40 MOE at Scene: 92/11/12 11:15	
		Assigned To:	GREG MONTCALM
		ERP Contacted: Callout: <input type="checkbox"/> NSP: <input type="checkbox"/> ERP Name:	
Syn: CHEMICAL PAINT STRIPPER SPILLED OVER A MONTH AGO			
Brief Summary: CHEMICAL PAINT STRIPPER SPILLED - DRUM OVERTURNED AND SPILLED TO GROUND OUTSIDE. SPILL OCCURED A MONTH AGO - <div>s.21</div> G. MONTCALM SITE VISIT WITH OWNER OF GARY'S CUSTOM CYDE AND FOUND THAT SITE WAS WELL RUN WITH NO SIGN OF SPILLAGE. OWNER INDICATED THAT SAFETY KLEEN PICK'S UP VARSOL AND OTHER WASTE GOES TO HHOUD- REGION. HE WAS INSTRUCTED TO HAVE CONTRACT FOR COMPANY AND PICK UP THIS WASTE.			
If there are related reports, record initial/master ORIS No. here >>			
Followup Action: X Abatement IEB Other BF Date: NO FURTHER ACTION REQUIRED.			
File Closed: X Abatement: IEB Other Suspected Violation:			
Report Prepared By: GREG MONTCALM	Date: 11/12/92	IEB Investigator:	IEB BF Date
Approving Officer GEORGE CLARKE	Date: 12/23/92	Reviewing Officer:	Date
Specify number(s) for routing Original <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		Continued <input type="checkbox"/> Yes	
Specify number(s) for copy distribution <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
1. Investigator/E.O.	2. D. O. /File	3. SAC (initial spills)	

Amount :		UN No.:
Cause.....:		Code...:
Reason.....:		Code...:
Person in Control:		Waste GenNum :
Owner.....:		Waste GenNum :
Agencies Involved.....:		
Clean up and Restoration Carried out by:		
<input checked="" type="checkbox"/> Controller <input checked="" type="checkbox"/> Owner <input type="checkbox"/> Other		
% Cleaned up:		Estimated Cost:
Were Directions or Approval Given Under		
EPA Part X <input checked="" type="checkbox"/>	Regulation 362 <input checked="" type="checkbox"/>	Manifest No.
Waste Class :	Code...:	
Hauler :	Code...:	
Disposal Site :	Code...:	
Environmental Impact:	Nature of Impact:	Code...:
People/Business Damaged		
(Other than to Owner/Controller) :		
Nature of Damage:	Code...:	

Appendix E

Aerial Photographs



Year 1928

Aerial Photograph



Year 1958

Aerial Photograph



Year 1965

Aerial Photograph



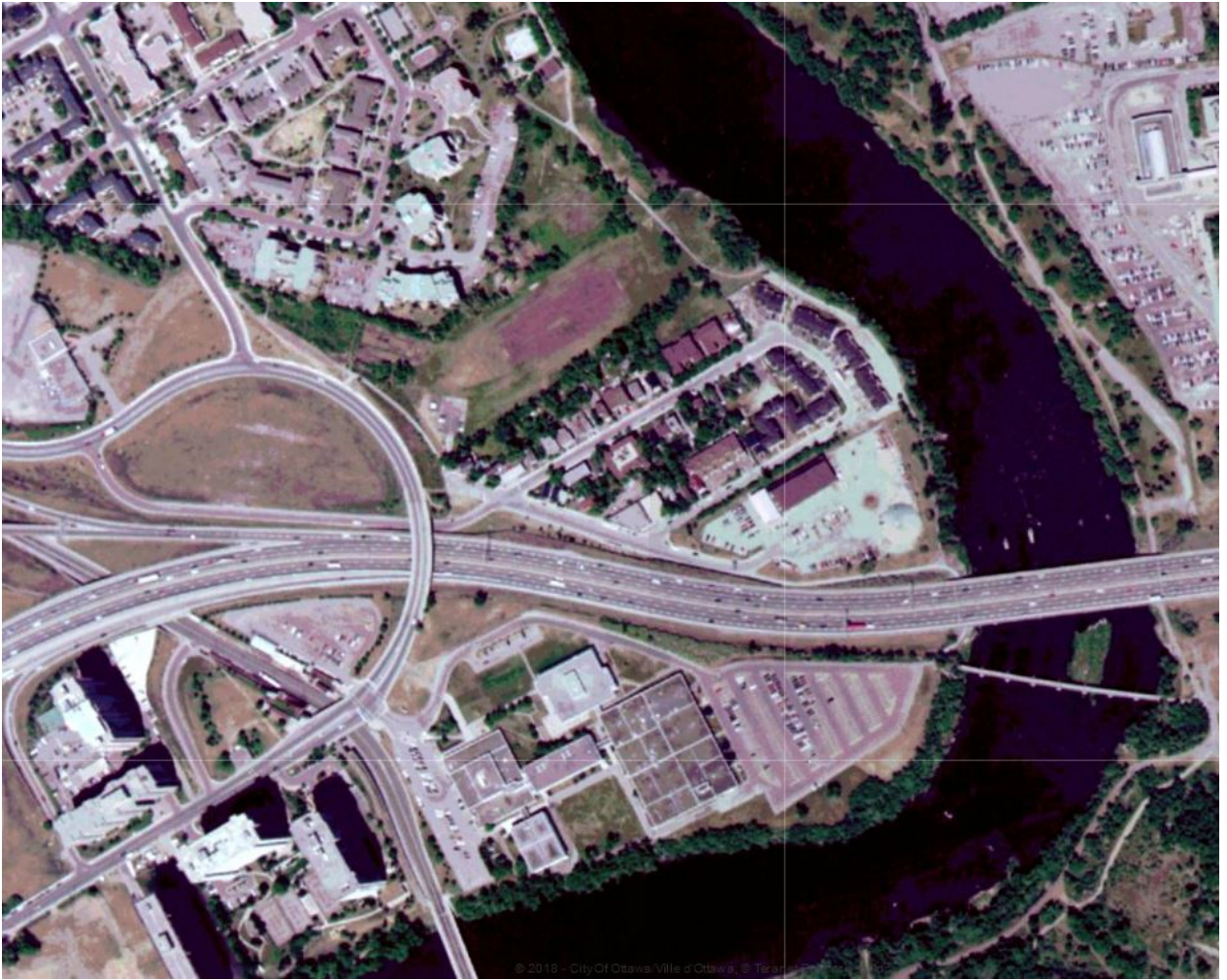
Year 1976

Aerial Photograph



Year 1991

Aerial Photograph



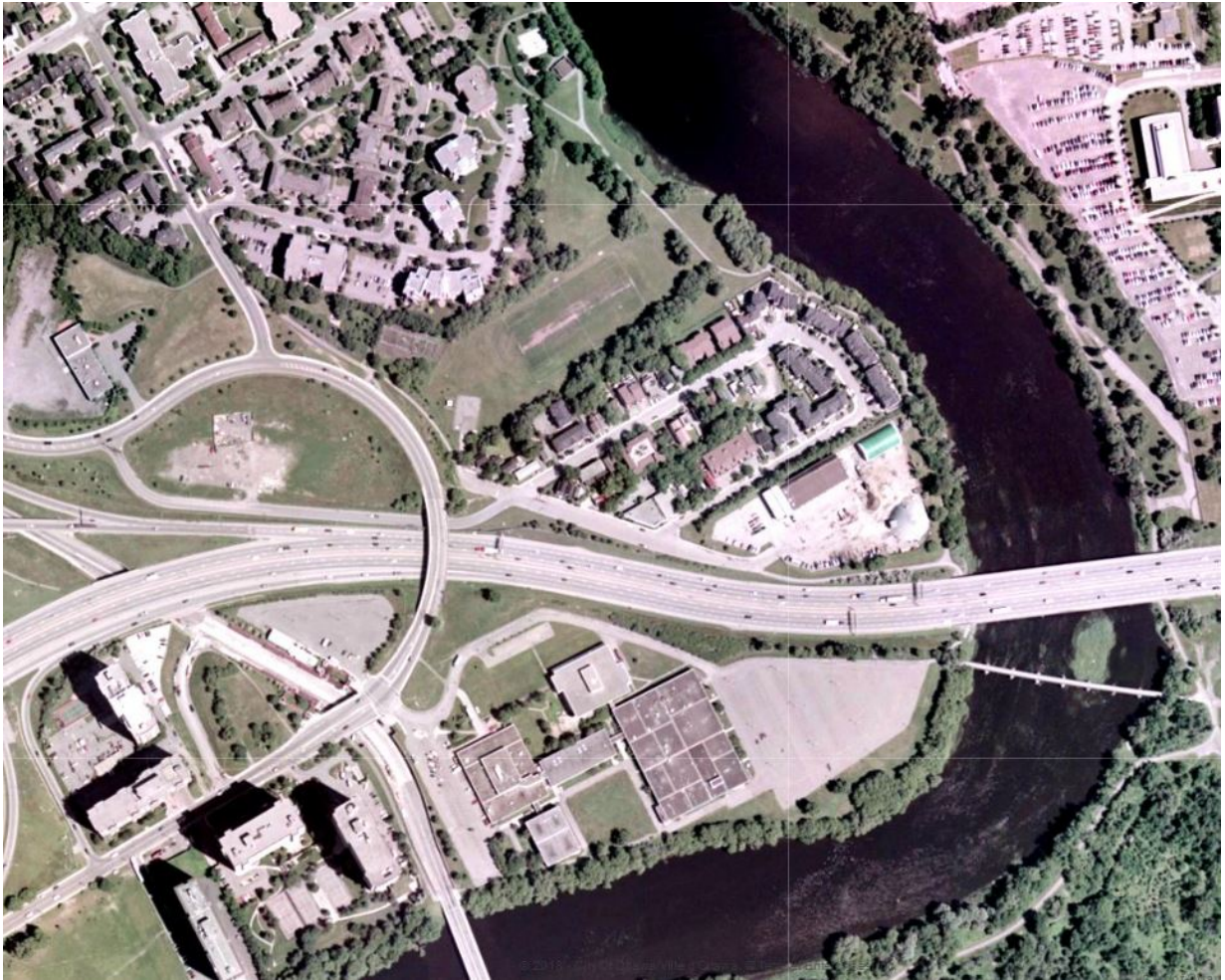
Year 1999

Aerial Photograph



Year 2002

Aerial Photograph



Year 2005

Aerial Photograph



Year 2007

Aerial Photograph



Year 2008

Aerial Photograph



Year 2009

Aerial Photograph



Year 2011

Aerial Photograph



Year 2014

Aerial Photograph



Year 2015

Aerial Photograph



Year 2017

Aerial Photograph

Appendix F

Site Photographs



Photo 1 - 36 Robinson Avenue - from street



Photo 2 - 36 Robinson Avenue - rear view

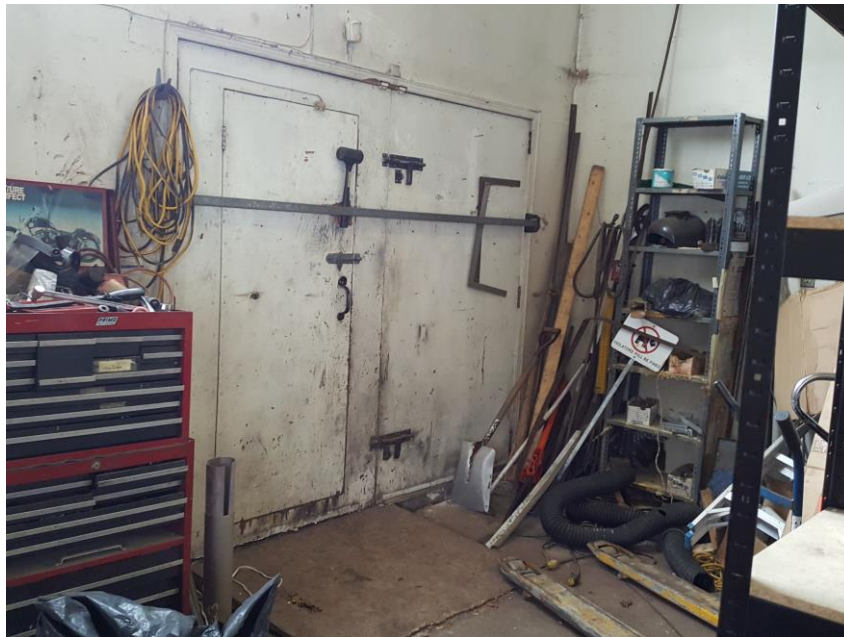


Photo 3 - 36 Robinson Avenue - general condition of previous motorcycle service shop



Photo 4 - 36 Robinson Avenue - area now used for parts storage



Photo 5 - 38 Robinson Avenue - from street



Photo 6 - 38 Robinson Avenue - rear view



Photo 7 - 40 Robinson Avenue - from street



Photo 8 - 40 Robinson Avenue - rear view



Photo 9 - 40 Robinson Avenue - general condition of current motorcycle service shop



Photo 10 - 44 Robinson Avenue - from street



Photo 11 - 44 Robinson Avenue - rear view

Empty AST in 44 Robinson Ave.



Photo 12 - 44 Robinson Avenue - interior view with AST (905L)



Photo 13 - 44 Robinson Avenue - general interior view



about GHD

GHD is one of the world's leading professional services companies operating in the global markets of water, energy and resources, environment, property and buildings, and transportation. We provide engineering, environmental, and construction services to private and public sector clients.

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