Phase One Environmental Site Assessment

289 Carling Avenue

Ottawa, Ontario

Prepared for:
The City of Ottawa
Real Estate Partnerships and Developments Office
5th Floor 110 Laurier Avenue West
Ottawa, Ontario
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FINAL REPORT

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Executive Summary

DST Consulting Engineers Inc. (DST) was retained by the City of Ottawa to conduct a Phase One Environmental Site Assessment (ESA) of the property located at 289 Carling Avenue in Ottawa, Ontario ("the Site" or "phase one property"). DST has performed this Phase One ESA in accordance with the Ontario Regulation 153/04 *Records of Site Condition*, as amended.

The objective of this Phase One ESA was to evaluate actual and potential environmental concerns on the Site by assessing potential impairment through current and/or historical uses of the Site and surrounding properties. Information regarding the Phase One study area was compiled through a records review, database searches, Site reconnaissance and an interview with a knowledgeable phase one property representative.

Federal, provincial, private agencies and other databases were searched during the records review for indicators of potential contaminating activities regarding the Site and near-by properties. Responses from the Ontario Ministry of Natural Resources and Forest, Environment Canada, the Ministry of Environment and Climate Change Freedom of Information and the City of Ottawa Historical Land Use have been received. These data base searches did not turn up any relevant information for the Phase One Property.

The Phase One property is a parking lot. No on-site structures and/ or other facilities are present. DST conducted a Site reconnaissance on October 27, 2016. Based on the aerial photograph review (1928 to 1950), the property was developed with at least one building. Between 1950 and 1958, Site usage is not known. The 1958 aerial photograph showed the site as a parking lot with several vehicles parked along the property edges.

Several potentially contaminating activities within the Phase One Study Area were identified. These activities are summarized in the table below.

Potential Contaminating Activities (PCAs)

Potentially Contaminating Activity No.	Potentially Contaminating Activity	Details	Location of PCA
PCA 1	Unknown Historical Use prior to 1958. Possible Industrial.	HLUI Report documented a possible Quarry and an unnamed waste disposal site with unknown addresses. A 1958 aerial photo showed the Site as having ground disturbances and/or structures which could be part of Fraserfield Lumber Yard. Intera Consulting 1997 Phase II ESA Report documented metal concentrations exceeding selected guidelines	On Site – entire site

Potentially Contaminating Activity No.	Potentially Contaminating Activity	Details	Location of PCA
PCA 2	Former Lumber Yard, Former Quarry, Former UST location	HLUI Report documented a possible quarry and a former UST at the property immediately west of the Site. The 1915 FIP showed a surface pond. The 1915 FIP and 1958 aerial photo showed the area as potentially have been part of Fraserfield Lumber Yard	Off-Site – immediately west of the Site which includes the entire property west of Bell Street
PCA 3	Lumber Yard	The 1901 FIP, 1915 FIP and 1958 aerial photo documented the area as part of Fraserfield Lumber Yard (HLUI documented area as J.R. Booth's Lumber Yard).	Off-Site - immediately south of Site
PCA 4	Gasoline and Associated Products Storage in Fixed Tanks	HLUI Report and the 1958 aerial photo documented the property located at the corner of Bronson Avenue and Carling Avenue as a retail fuel outlet from 1948 to 1980.	Off Site – approximately 135 m east of the site
PCA 5	Gasoline and Associated Products Storage in Fixed Tanks	HLUI Report, the 1958 aerial photo and 1965 FIP documented the property located at the corner of Bronson and Carling Avenues a retail fuel outlet from 1956 to 2005.	Off Site – approximately 140 m east - southeast of the site
PCA 6	Gasoline and Associated Products Storage in Fixed Tanks	The 1956 FIP and HLUI report documented the property located at Carling Avenue and Lebreton Street as a retail fuel outlet from 1941 to 1956. Water well records identified waste material on log descriptions for monitoring wells drilled on this property.	Off Site – approximately 100 m west of the site
PCA 7	PCB spill from Pole Transformer	ERIS report documented a PCB spill at the property located 326 Powell Street.	Off-Site – approximately 110 m North of the site
PCA 8	Gasoline and Associated Products Storage in Fixed Tanks	The 1956 FIP and HLUI report documented the property located at Carling Avenue and Booth Street as a retail fuel outlet from 1941 to 1956.	Off Site – approximately 125 m west of the site
PCA 9	Former Landfill	The HLUI report documented a former landfill (Ur-21) at the current location of Commissioner Park	Off Site – approximately 120 m southwest of the site

The potentially contaminating activities as identified above have contributed to one area of potential environmental concern which includes the entire Site. The area is summarized in the table below.

Areas of Potential Environmental Concern (APECs)

APEC No.	Potential Source of Contamination	Contaminants of Potential Concern (COPCs)
APEC 1	On-site Sources: documented on-site metal concentrations exceeding MOE guidelines, possible disposal facility, unknown land-usage prior to 1958. Off-site sources: Possible waste disposal facility, former near-by quarry, former near-by lumber yard, nearby former retail fuel stations and USTs, near by PCB spill.	BTEX, PHCs F1 - F4, PAHs, VOCs, Phenols, pH, metals

Notes:
BTEX – Benzene, Toluene, Ethylbenzene, Xylenes
PHCs F1-F4 – Petroleum Hydrocarbons Fractions (F1 - F4)
VOCs – Volatile Organic Compounds
PAHs – Polycyclic Aromatic Hydrocarbons

A Phase Two ESA to assess soil and groundwater conditions at the Site is recommended.

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1. Introduction

1.1 General

DST Consulting Engineers Inc. (DST) was retained by the City of Ottawa (the "Client") to conduct a Phase One Environmental Site Assessment (Phase One ESA) of the property located at 289 Carling Avenue in Ottawa, Ontario ("the Site" or "Phase One property"). A Site Location Map is attached in Appendix A, as Figure 1.

DST has performed this Phase One ESA in accordance with Ontario Regulation (O. Reg.) 153/04 Records of Site Condition, as amended.

The objective of this Phase One ESA was to evaluate actual and potential environmental concerns at the Site which includes the potential for environmental impacts though current and/or historical uses of the Site and surrounding properties. This Phase One ESA is intended to be utilized as supporting documentation to transfer land ownership from the current owner to the Client for potentially re-zoning the property to a different use other than a surface parking lot and, to obtain a Record of Site Condition (RSC).

Information regarding the Site and Phase One Study Area was compiled through a records review, site reconnaissance, and interviews. The Phase One Study Area, as defined by O. Reg. 153/04, is the area within 250 m of the Phase One Property boundaries. Figure 2 showing the boundaries of the Site and the Phase One Study Area is attached in Appendix A.

Authorization to proceed was provided by Mr. Richard Baker, an employee and project manager with the City of Ottawa. Contact details are provided below:

Name: Richard Barker
Rationale: City of Ottawa employee
Phone No.: (613) 580-2424 ext. 21517
Address: 5th Floor 110 Laurier Avenue West, Ottawa, ON

1.2 Phase One Property Information

The Site, located at the northeast corner of Carling Avenue and Bell Street in Ottawa, Ontario, is situated in a municipal urban setting of mixed commercial, residential, and institutional land uses. The Site is currently part of the staff parking lot No.: 66 operated by the Government of Canada. The Site is paved with asphalt, has some landscaping adjacent the property boundaries and is approximately 0.13 ha (0.31 acres).

The Site Location Map and Phase One study area are illustrated in Figures 1 and 2 in Appendix A, respectively.

The legal description of the Site is:
Plan 31326, Part Lots 8, 9 and 11, and Lot 10. Property Identification Number (PIN): 041040234(LT).

The Canada Lands Company CLC Limited is the current owner of the above-listed lots of land.

2. Scope of Investigation

2.1 Scope of Investigation

The scope of work for the Phase One ESA included the following activities:

- A records review;
- A Site reconnaissance visit;
- Interviews with a knowledgeable Phase One property representative;
- An evaluation of the information gathered from the records review, database searches, Site reconnaissance visit and interview; and,
- The preparation and submission of a Phase One ESA report.

3. Records Review

3.1 General

Requests for information were submitted to the City of Ottawa Historical Land Use Inventory (HLUI), the Ontario Ministry of Natural Resources (OMNR), the Ministry of Environment and Climate Change-Freedom of Information (MOECC-FOI), Environment Canada (EC), and Ecolog ERIS. The agencies contacted, information requested, and responses received are summarized in the following sub-sections.

3.1.1 Phase One Study Area Determination

The Phase One Study Area encompasses all properties wholly and partly located within 250 metres of the Phase One Property boundaries. The Phase One Property and adjacent properties are shown on Figure 2 in Appendix A.

3.1.2 First Developed Use Determination

Based upon information provided through available historical aerial photographs, fire insurance plans, property records review, the Phase One Property was constructed to it's current use as a parking lot sometime between 1951 and 1958. The 1958 aerial photo shows the site as a parking lot. The Site land use from 1951 to 1958 is not known as there was no available information to determine exact usage. An aerial photograph from 1950 shows the property with a building. The 1938 aerial photograph also showed a rectangular structure on the Phase One Property.

Documentation which could assist in determining a more precise first development date was not available during this assessment. Considering the Site's proximity to the Fraserfield Lumber Yard as documented on the 1901 Fire Insurance Plan, land use prior to 1938 may have been industrial and/or commercial.

3.1.3 Fire Insurance Plans

DST retained the services of EcoLog ERIS to search for available fire insurance plans (FIPs) for the Phase I ESA Study area. FIPs from 1901, 1915 and 1963, were reviewed.

The 1901 FIP showed the Site as vacant with no municipal address. Carling Avenue is also not present on this FIP, however a street labelled as Dyson is located west of the Site in a similar location as Carling Avenue. The Fraserfield Lumber Yard (potentially owned by J.R. Booth) is documented as having been located immediately south, west and northwest of the Site. The Fraserfield Lumber Yard has multiple rectangular structures, possible rail spurs and several possible buildings. There are several buildings located to the north of the Site. The 1901 FIP did not provide any documentation for properties east of the Site.

The 1915 FIP does not shoe the site, just the property boundary adjacent Bell Street. The 1915 FIP does shows Carling Avenue previously identified as Dyson. The Fraserfield Lumber Yard is still present. The Site now appears to be sectioned off as its own lot. A "pond" was documented

on south side of the west adjacent property between Lebreton and Bell Streets. There are several buildings documented on the properties to the north and east of the Site.

The 1963 FIP shows the site as an irregular parcel with no structures in the current parking lot development. There are two structures located on the north side of the parcel which are now the north adjacent property. The property west of the Site (between Bell Street and Lebreton Street) appears to be owned by the Federal District Commission. This property appears to have a least four connected buildings which may be commercial. A UST was also documented on the Federal District Commission property. Further west, on the property between Lebreton and Booth Streets, is a gas service station (SE corner) and a garage with auto repair operations (SW corner). The service station was documented as having at least three underground storage tanks (USTs) while the garage had two USTs. A garage, wood works and auto operations were documented for the property located north and west of the Site. Immediately east of the Site, the adjacent property appears to be owned by the Ottawa Suburban Roads Commission. This property appears to have had two structures, one documented as storage and the other as a road implement shed. The properties south of the Site appear to be residential. A gasoline service station with potentially three USTs was documented for the SW corner of Carling Avenue and Bronson Avenue. A hydro-electric Sub-station was identified at the NE corner of Carling and Bronson Avenues. The remaining properties, east, northeast and southeast of the site appear to be a mix of industrial, commercial and residential.

Potential contaminating activities (PCAs) indented in the FIPs include the Fraserfield Lumber Yard and several UST locations.

A copy of the FIPs is provided in Appendix B.

3.1.4 **Chain of Title**

DST retained the services of EcoLog ERIS to conduct a title search for the Site. The results of the title search indicate that the Site is currently owned by Canada Lands Company CLC Limited. A summary of Title ownership from current to 1809 is provided in Table 3-1.

Table 3-1: Summary of Current and Historical Title Ownership

Date(s)	Ownership(s)
2014 – current	Canada Lands Company CLC Limited
2014 – 1972	Her Majesty The Queen In Right of Canada, represented by The Minster of Public Works
1972 – 1900	National Capital Commission (Previously known as the Federal District Commission
1900	Hilda Sherwood and Henry Sherwood
1900 – 1891	Ethel and Arthur Sherwood
1891 – 1868	Emily Sherwood
1868 – 1853	Honorable George Sherwood
1853 – 1820	Levius P. Sherwood

Date(s)	Ownership(s)
1820	John LeBreton and Sheriff Stewart (Sheriff's Deed)
1820 – 1809	Robert Randell
Pre-1809	Crown

No PCAs were identified with the historical titles review. All relevant legal title documentation is provided in Appendix B.

3.1.5 Ontario Ministry of Natural Resources

The Ontario Ministry of Natural Resources (OMNR) was contacted on October 27, 2016, by DST for information regarding species at risk, environmentally sensitive sites, and Areas of Natural and Scientific Interest (ANSI) associated with the Phase One study area. A response from the OMNR remains outstanding. If information provided by the OMNR alters the conclusions of this report, an addendum to the report will be provided.

3.1.6 Environment Canada

Environment Canada was contacted on October 27, 2016, under the Freedom of Information Act for information on the Phase one property related to environmental concerns (general correspondence, occurrence reports, and abatements), orders, tanks, spills, investigations and prosecutions, waste generators. This included certificates of approvals including air emissions, water, sewage, waste water, industrial discharge, waste systems and pesticide licenses. A response from Environment Canada remains outstanding. If information provided by Environment Canada alters the conclusions of this report, an addendum to the report will be provided.

3.1.7 Ministry of Environment and Climate Change– Freedom of Information (MOECC – FOI)

The MOECC-FOI was contacted for information on the Phase One property, such as past or existing environmental permits, existing environmental orders, fuel storage tanks, or any other environmentally related information. The request for information was submitted on October 27, 2016. A response from the MOECC remains outstanding. If information provided by the MOECC alters the conclusions of this report, an addendum to the report will be provided.

3.1.8 City of Ottawa Historical Land Use Inventory (HLUI)

The City of Ottawa HLUI records for the Site and surrounding properties identified at least two historical gas stations east of the Site (on the corners of Bronson and Carling Avenues) and an unnamed waste disposal site (unknown address) near the Site. In addition, the Federals District Property land located at 291 Carling Avenue which is west of the Site, was documented to have had at least one historical UST. Commissioner Park which is located approximately 120 metres southwest of the Phase One Property was documented as a former landfill (Ur-21). These former activities are potentially contaminating activities (PCAs). The City of Ottawa HLUI search results for the Phase One property and surrounding properties are included in Appendix C.

3.1.9 **Waste Disposal Site Inventory**

The MOECC Waste Disposal Site Inventory (October 1990) was consulted and no former waste disposal sites are present within 1.5 km of the Phase One Property. The City of Ottawa *Landfill Management Strategy Phase 1 – Identification of Sites* Report indicated that government owned landfill (Id.: UR-21) was located in the current location of Commissioner Park just east of Dow Lake. The report indicated that the former landfill site was built prior to 1924 and had an area of 4 ha. The report also indicated that the landfill foot print was defined but no groundwater or soil sampling has been reported.

3.1.10 **Environmental Reports**

The following reports of historical environmental investigations at the Phase One Property were reviewed by DST:

- DST Consulting Engineers Inc. March 2014. "Environmental Liability Assessment. The Bell Street Parking Lt, 289 Carling Avenue, Ottawa, Ontario." DST File No.: OE-OT-017959.
- Public Works and Government Services Canada. July 2007. "PWGSC Property Review Standard, Bell Street Parking Lot, Ottawa, Ontario." DFRP No.: 08887, Project No.: 497855.
- Intera Consultants Inc. November 1997. "Phase II Environmental Site Assessment of the Bell Street Parking Lot, Ottawa, Ontario." Prepared for Public Works and Government Services Section. File No.: 97-237.

The findings and conclusions/recommendations of the reports are discussed in subsections below.

DST Consulting Engineers Inc. March 2014. "Environmental Liability Assessment. The Bell Street Parking Lt, 289 Carling Avenue, Ottawa, Ontario." DST File No.: OE-OT-017959.

Previous environmental investigations indicated the presence of metals-contaminated soil at the Site. Based on the site conditions, DST recommended site remediation and a preliminary quantitative human health and ecological risk assessment.

Public Works and Government Services Canada. July 2007. "PWGSC Property Review Standard, Bell Street Parking Lot, Ottawa, Ontario." DFRP No.: 08887, Project No.: 497855.

PWGSC indicated that metal contaminated soils were present onsite. The report also indicated asphalt wear and tear that required repair or replacement. Actions recommended in the report included asphalt repairs for risk management of metal impacted soils and/or soil remediation.

Intera Consultants Inc. November 1997. "Phase II Environmental Site Assessment of the Bell Street Parking Lot, Ottawa, Ontario." Prepared for Public Works and Government Services Section. File No.: 97-237.

The Phase II Environmental Site Assessment conducted by Intera Consultants Inc. identified metal impacted fill from surface to approximately 0.84 metres deep. Metal concentrations of barium, copper, molybdenum and zinc detected in collected soil samples exceed either the 1997 Canadian Soil Quality Guidelines and/or the 1996 Ontario Ministry of Environment Table B Soil Criteria. Groundwater samples were collected from two installed monitoring wells but were not submitted for metal analyses. The report indicated that approximately 850 m^3 of metal impacted soil would require remediation to meet the selected site guidelines and/or criteria. Groundwater was indicated as not being impacted however the collected samples were not submitted for metal analyses. The report also indicated that the metal impacted soils were encapsulated by the layer of asphalt at the site which would make it inaccessible to the public.

3.2 Environmental Source Information

An EcoLog ERIS report for the Site, and the surrounding area within a 250 m radius of the property, was obtained and reviewed by DST as part of this Phase One ESA. EcoLog ERIS searches selected databases for information pertaining to the Phase One study area and summarizes the search results. A total of 63 databases were searched. EcoLog ERIS located 158 records for properties within 250 m of the Site, however no records were identified for the Site specifically. The results of the EcoLog ERIS report are summarized in Table 3-2 below. The full report is included in Appendix B.

Table 3-2: Summary of Ecolog ERIS Findings

Location	Approximate Distance from Site	Details
550 Cambridge Street S	East adjacent property to Site	• Certificate of Approval issued to Carleton Condominium No. 472. for air
7 Frederick Place	70 m south-southeast	• TSSA pipeline incident documenting heating fuel pipeline damage. No other information indicated.
280 Carling Avenue	71 m east	• ERIS Historical Database search
385 Bell Street	80 m North	• Scott's Manufacturing Directory identified Scaffold-fast Inc. • Certificate of Approval issued to Canci Homes Corporation Inc. for municipal and private sewage works
265 Carling Avenue	83 m east	• Ontario Reg. 347 Waste Generators Summary identified Associated Endodontists,
401 Lebreton Street	103 west northwest	• Ontario Reg. 347 Waste Generators Summary identified Government of Canada, Energy, Mines and Resources (out of business) and Quantum Murray LP • Inventory of PCB Storage Sites identified Energy, Mines and Resources • Pesticides Register identified Terrapro Corporation
557 Cambridge Street	107 m east - southeast	• Ontario Reg. 347 Waste Generators Summary identified Black & MacDonald Limited for oil skimming and sludges •
265 Carling Avenue	108 east - northeast	• ERIS Historical Database search • Ontario Reg. 347 Waste Generators Summary identified Taggart Corporation for PCBs • Scott's Manufacturing Directory identified Nortak Sofaeware Ltd., Assn faculties Medicine of Cda, Beyond 20/20 Inc., and, Cdn Post – M.D. Education Regist.

Location	Approximate Distance from Site	Details
	137 east - northeast	• ERIS Historical Database search
326 Powell Street	108 m north-northeast	• Ontario Spills identified a pole transformer spill with 53 L of fluid spilled to ground
515 Cambridge Street	113 north - northeast	• ERIS Historical Database search • Ontario Reg. 347 Waste Generators Summary identified Borden High School with waste oils and lubricants
	161 m north-northeast	• Ontario Reg. 347 Waste Generators Summary identified Goodex Equipment Rental
774 Bronson Avenue	123 east-southeast	• ERIS Historical Database search
360 Lebreton Street	129 m west	• Ontario Reg. 347 Waste Generators Summary identified Dept. of National Defence with aliphatic solvents, petroleum distillates, acid wastes, heavy metals, paints, pigments and coating residues, waste oils and lubricants
770 Bronson Avenue	137 east	• ERIS Historical Database search • List of TSAA Expired Facilities identified Emilo Lindia Enterprises Ltd. • Private and Retail Fuel Storage Tanks identified Emilo Lindia Enterprises Ltd.
786 Bronson Avenue	156 east southeast	• ERIS Historical Database search
345 Lebreton Street	161 North-northeast	• ERIS Historical Database search
315 Powell Avenue	169 m north	• Ontario Spills identified a gasoline spill with an unknown volume into City Sewer
482 Cambridge Street S	175 north-northwest	• ERIS Historical Database search
247 Glebe Avenue	East-northeast	• Ontario Reg. 347 Waste Generators Summary identified Hydro Ottawa Ltd and Ottawa Hydro
794 Bronson Avenue	184 m east - southeast	• Scott's Manufacturing Directory identified K&R Dental Laboratories and Shaw Laboratories
615 Booth Street	187 m west - northwest	• Certificate of Approval issued to Public Works & Govt Services Canada for air • Ontario Reg. 347 Waste Generators Summary identified Brookfield Global Integrated Solutions, SNC Lavalin, Gvt of Canada-Public Works, Gvt of Can.-See&Use, Public Works Canada, Gvt. Of Can-Supply and Services, Stantec Consulting Ltd., Mapping and Charting Establishment, National Defence, Energy, Mines and Resources, Brookfield Johnson Controls, Gvt. Of Can-Natural Resources, and Health and Welfare Canada for aliphatic solvents, petroleum distillates, acid wastes, heavy metals, paints, pigments and coating residues, waste oils and lubricants • National PCB Inventory identified Energy Mines and Resources • Scott's Manufacturing Directory identified Canadian Hydro Graphic Services • Ontario Spills identified National Research Council of Canada, SNC Lavalin, and Natural Resources Mechanical Room for refrigerant gas and Freon

Location	Approximate Distance from Site	Details
601 Booth Street	187 west-northwest	• Ontario Reg. 347 Waste Generators Summary identified Government of Canada, Energy, Mines and Resources, Brookfield Johnson Controls, Gvt. Of Can-Natural Resources, Brookfield Global Integrated Solutions, and Health and Welfare Canada for aliphatic solvents, petroleum distillates, acid wastes, heavy metals, paints, pigments and coating residues, waste oils and lubricants • Ontario Spills identified an 8 L ethylene glycol spill for SNC Lavalin. Confirmed soil and water impact.
680 Bronson Avenue	227 m north-northeast	• Ontario Spills identified a natural gas leak by Enbridge Gas Distribution
812 Bronson Avenue	237 m east-southeast	• Ontario Spills identified 50 L of furnace fuel leak by First Fuel indicating possible soil contamination
272 Powell Street	241 northeast	• Ontario Spills identified Hydro Ottawa 14 L of PCB oil to ground, potential land and water impacts
Unlisted locations	196 m northeast	• borehole
	203 m north-northeast	• borehole
	233 m north	• borehole
	134 m west-southwest	• borehole
	71 m north - northwest	• Federal Contaminated Sites Registry identified an unknown contaminated site. ROC obtained. PHCs and PAHs in soil and groundwater near mechanical room
	189 m west - northwest	• Federal Contaminated Sites Registry identified an unknown contaminated site. Estimated 6295 m^3 of PAH and metal impacted soil present

A former gasoline service station (Emilio Lindia Enterprises Ltd.) located 137 m east of the Site at 770 Bronson Avenue may be a potential off-site environmental risk. Two PCB spills identified at 326 Powell Street (approximately 109 m north – northeast of the Site) may be a potential off-site environmental risk. The federal contaminated sites registry sites located 71 m and 189 m north – northwest from the Site may also present an environmental risk.

3.2.1 City Directory Reviews

3.2.1.1 Past Uses of the Phase One Property

An ERIS City Directory Information Source report was obtained and reviewed by DST. Directories were viewed from 1928 to 1999. Listings found in the City Directory are summarized in Table 3-3. It should be noted that some years had no listings for nearby addresses and present gaps in the listing history or were not occupied.

Table 3-3: Summary of The City of Ottawa Directory Records

Location	Date Ranges	Listing
294 Carling Avenue	From 1954 to 1999	• Unknown Residential
296 Carling Avenue	From 1954 to 1999	• Unknown Residential

299 Carling Avenue	From 1979 to 1994	• Energy, Mines & Resources
540 Cambridge Street South	From 1994 to 1999	• Carleton Condominium Corp
	1979	• Ottawa Carleton Regional Roads Dept Surveys Br.
393 Bell Street	1999	• Shardon Building Corp, • Unknown Residential
	1989 to1959	• Mc Rostie Genest Middlemiss & Associates engs
	1974, 1969	• Bernier & Grand'maitre Assoc consulting eng
	1959	• National Capital Commission
	1954, 1938	• Unknown Residential

A review of the city directories revealed no indicators of potential off-site environmental risk to the Site.

3.3 Physical Setting Sources

Aerial photographs, as well as soil, bedrock geology, and topography maps were reviewed for information pertaining to the physical setting of the Phase One study area. Results of the review are presented in the following subsections.

3.3.1 Aerial Photographs

A review of available aerial photographs from the City of Ottawa's GeoOttawa Maps and the National Air Photo Library was conducted. Aerial photographs from the years 1928, 1938, 1946, 1950, 1958, 1965, 1976, 1991, 2011 and 2014 were reviewed. The information available from the reviewed photographs is summarized below (refer to Appendix D for copies of the aerial photographs):

1928 *GeoOttawa*

The Phase One Property is present at the northeast corner of Bell Street South and Carling Avenue. The Site appears to have some development with potentially two or three unidentifiable structures in the southwest cover. The rest of the Site appears vacant with possible surface disturbance. Carling Avenue is clearly visible traversing in a northeast-southwest direction, as is Bell Street South leading to Carling from the north. Several other streets are also evident with mixed vacant, residential and industrial properties within the Phase One Study Area. Immediately south of the Phase One property (south side of Carling Avenue) is potentially a lumber yard. This lumber yard extends west towards Dows Lake and east to Bronson Avenue. The west adjacent property (west of Bell Street) appears to potentially have had at least three buildings and a disturbed surface. The property further west appears to be another lumber yard or an extension of the south lumber yard. A series of either roads and/or rail spurs are present on this adjacent property. Further west is a residential neighbourhood. The adjacent property immediately north of the Phase One property has at least one

building with the rest of the site having vacant land with some surface disturbances. Further north is Maclean Street with several buildings and properties located on the north side. The east adjacent property is developed with several unidentifiable structures onsite. It also appears to be potentially fenced. Further east is Cambridge street and possibly mixed residential, intuitional and/or industrial.

1938 National Air Photo Library

The Phase One Property appears to have at least one retanglar building adjacent the east property boundary. The east adjacent property has one building adjacent Cambridge Street. Further east, at the SW corner of Bronson and Carling Avenues appears to be a gas station. South of Carling Avenue, the lumber yard has been redeveloped with roads and at least on residential building. Southwest of the site (south of Caring Avenue) is a park area and Dows Lake. The west adjacent property located west of Bell Street has at least one building predominantly along the property edge near Carling Avenue and Bell Street.

1946 National Air Photo Library

The quality of the aerial photograph is poor preventing the detailed review of the Phase One Property. The north and east properties appear unchanged. South of Carling Avenue, additional residential housing is now present. The west adjacent property located west of Bell Street has at least two buildings predominantly along the property edges near Carling Avenue, Bell Street and Lebreton Street.

1950 National Air Photo Library

The Phase One Property has at least one rectangular building situated on the east property boundary. South of Carling Avenue, the residential neighbourhood appears completely developed. The west adjacent property located west of Bell Street has at least three buildings along the property edges near Carling Avenue, Bell Street and Lebreton Street. The remaining properties appear unchanged.

1958 GeoOttawa Maps

The Phase One Property no longer has the rectangular building present. It now appears to be a paved parking lot with several vehicles parked along the edges. The eastern property boundary appears to have a building which overlaps with the Phase One property. The east adjacent property also has second building adjacent Cambridge Street and vehicle parking in the centre. The west adjacent property located west of Bell Street has at least five buildings predominantly along the property edges near Carling Avenue, Bell Street and Lebreton Street. Vehicle parking is present in the centre of the property and a disturbed surface area to the north with several vehicles is also present. Further west of Lebreton Street is a site currently under construction. Gas stations appear to be located on the NW and SW corners of Bronson and Carling Avenues. Properties to the north appear unchanged from the 1950 aerial photograph.

1965 GeoOttawa Maps

The Phase One property is unchanged since 1958. The adjacent properties to the north, east, south and immediately west also appear unchanged. The property west of Lebreton Street has been developed with several buildings and some vacant land. A building located just northwest of the site (west side of Bell Street) has also be constructed since 1958.

1976 *GeoOttawa Maps*

The Phase One property is unchanged since 1965 except for some landscaping present near the property boundaries. The adjacent properties to the north, south and immediately west also appear unchanged. Two properties located east of Cambridge Street have been redeveloped into multi-level buildings since 1965.

1991 *GeoOttawa Maps*

The Phase One property is unchanged since 1976. The adjacent properties to the north, south and immediately west also appear unchanged. The east adjacent property has been redeveloped into a multi-level building incorporating the entire site.

2011 *GeoOttawa Maps*

The Phase One property is unchanged since 1991. The west adjacent property located on the west side of Bell Street no longer has the buildings present, however foundation imprints of the historical buildings can be observed near Lebreton Street. The adjacent properties to the north, east and south appear unchanged since 1991.

2014 *GeoOttawa Maps*

The Phase One property is unchanged since 2011. The adjacent properties to the north, east south and west also appear unchanged since 2011.

A review of the aerial photographs did not reveal any indicators of potential environmental risk with respect to the Phase One property. The south adjacent property identified as a possible lumber yard in 1928 may have had potentially contaminating activities (PCAs) that could have impacted the site through contaminant migration. In addition, the two gas service stations identified on the west corners of Carling and Bronson Avenues also pose a potential environmental risk to the Site.

3.3.2 **Topography, Hydrology, Geology**

The topographical map of Ottawa (Map 31G/5, produced by the Surveys and Mapping Branch of the Department of Energy, Mines and Resources, 1987) was reviewed. The map shows the ground surface elevation for the Phase One property at approximately 74 metres above mean sea level (m.a.s.l.). The on-site topography slopes gently towards the southwest, with the highest elevation on Site observed in the northeast corner.

Surficial geology maps published by the Ontario Geological Survey and the Ontario Division of Mines were examined to evaluate the characteristics of the overburden at the Phase One property and surroundings. The surficial geology at the Site consists predominantly of glaciomarine

deposits described as silt and clay with sand and gravel. (Ref.: Surficial Geology Map 1506A, Ottawa, Ontario, Geological Survey of Canada, 1982).

The bedrock geology at the Site consists of interbedded limestone and shale of the Middle Ordovician Bobcaygeon Group. (Ref.: Map 1508A5, "Generalized Bedrock Geology", Geological Services Canada (GSC) 1976).

3.3.3 Fill Material

Based on a Phase Two ESA Report prepared by Intera Consultants Inc. (November 1997) fill material identified at the Site, generally consists of clayey sand, sand and gravelly sand ranging in thickness from surface to 0.61 metres deep. The borehole log for BH24 indicated fill material to a maximum depth of 0.84 m deep.

3.3.4 Water Bodies and Areas of Natural Significance

Dows Lake is located approximately 355 m southwest of the Site. Dows Lake is connected the Rideau canal system which is located approximately 890 m south of the Site. The Rideau River is located approximately 3.6 km south of the Site.

Based upon a review of the online Natural Heritage Areas from the Ministry of Natural Resources and Forestry (MNRF), there are no environmentally sensitive sites, and Areas of Natural and Scientific Interest associated with the Phase One Study area. An information request was submitted to the MNRF with respect to species at risk; a response was not received at the time of issuance of this report.

3.3.5 Well Records

No water well records were identified on the MOECC's water well database for the Phase One property. Fifteen water well records were found for other properties within 250 m of the Phase One Property. All wells were installed in either 2008, 2010 and/or 2012. Twelve water well records were identified as monitoring well and/or test hole locations. Three well records were identified as well abandonments.

Of the fifteen water well records identified, a Master Cluster Record (Well Tag No.: A081100) of eleven monitoring wells were registered for 601 & 615 Booth Street and were drilled in 2008. A description of the subsurface materials indicated fill from surface to 0.60 metres followed by landfill debris and organics from 0.6 to 4.2 metres deep then followed by grey limestone to a maximum depth of 8.8 metres deep. The location of these wells is noted as being on the south side of the property identified as a former lumber yard in 1928 (occupying land between Lebreton and Booth Streets).

3.4 Site Operating Records

No site operating records were provided to DST for review.

4. Interviews

4.1 General

DST conducted an interview on November 18, 2016, with Ms. Krista Durie, the development manager for the Canada Lands Company (CLC) Limited. Ms. Durie was selected to be interviewed as she is familiar with the Site and has been associated with the property since 2013. Ms. Durie was interviewed via email correspondence.

Ms. Durie provided DST with the following information:

- The Site is currently a parking facility and was acquired by CLC in 2014;
- The Site had a Phase II ESA conducted by Intra Consultants in 1997 which identified metal impacted fill material onsite; and
- To her knowledge, Ms. Durie was unaware of any environmental spill, incidents or issues at the Site and/ or surrounding properties.

5. Site Reconnaissance

5.1 General Requirements

The findings documented in this section are based on observations made by Salim Eid and Ginger Rogers (a Qualified Person in Ontario as per O. Reg. 153/04, as amended). The Site visit took place on November 27, 2016, and lasted for approximately 1.5 hours. Conditions at the time of the Site reconnaissance were sunny with a temperature of approximately 12^{o}C.

Photographs from the Site visit are included in Appendix E.

5.2 Specific Observations at the Phase One Property

The Site is currently a parking lot with no standing structures. Site topography gently slopes southwest. Some landscaped trees are currently located on the northern property boundary and landscaped grasses and shrubs exists along the south and west property boundaries. A retaining wall is present on the east property boundary. The surface of the parking lot has been paved with asphalt. The asphalt was identified as being worn with patches of surface soil exposed. No signs of surficial staining were identified. Descriptions of the Site buildings and other observations at the Phase One property are provided in the sub-sections below.

5.2.1 Observations at the Phase One Property

No buildings were observed. The site surface has been paved with asphalt.

5.2.2 Description of Below-Ground Structures

No below-ground structures were observed however, two monitoring wells were identified.

5.2.3 Details of Tanks

No ASTs and/or USTs were identified.

5.2.4 Potable and Non-Potable Water Sources

No potable or non-potable water sources were identified.

5.2.5 Underground Utilities and Service Corridors

Indicators of underground and aboveground utilities were observed at the property's west and south boundaries on public streets. Utilities identified included storm sewer catch basins, pole-mounted lighting fixtures, and telephone cables.

5.2.6 Features of Structures and Buildings

5.2.6.1 Entry and Exit Points

No on-site structures of buildings were identified.

5.2.6.2 Heating Systems

No on-site heating systems were identified.

5.2.6.3 Cooling Systems

No on-site cooling systems were identified.

5.2.6.4 Drains, Pits and Sumps

No on-site drains, pits and/or sumps were identified.

5.2.6.5 Unidentified Substances

No unidentifiable substances were observed at the Site.

5.2.6.6 Stains or Corrosion

No on-site corrosion and/or stains were identified. Asphalt surface was noted as being worn with several cracks and broken patches throughout the site.

5.2.7 Wells

Water wells were not identified on-site. At least two surface-grade monitoring wells were identified.

5.2.8 Sewage Works

No on-site sewage infrastructure was identified.

5.2.9 Ground Surface

Approximately three quarters of the Phase One Property is paved while remaining quarter is grassed and slightly vegetated with some trees and shrubs.

5.2.10 Railway Lines or Spurs

No on-site railway lines or spurs were identified.

5.2.11 Stained Soil and Floor Surfaces

No on-site soil staining was observed.

5.2.12 Stressed Vegetation

No on-site stressed vegetation was observed.

5.2.13 Fill and Debris

No fill or debris was observed.

5.2.14 Potentially Contaminating Activity

No potentially contaminating activities were identified during the Site visit.

5.2.15 Enhanced Investigation Property

The property is not considered an enhanced investigation property, as per O. Reg. 153/04 (as amended).

5.2.15.1 Operations at Phase One Property

The Site is currently used as a surface-grade parking lot.

5.2.15.2 Hazardous Materials

No hazardous materials were identified.

5.2.15.3 Products Manufactured at Phase One Property

No manufacturing processes currently take place at the Phase One property.

5.2.15.4 By-Products and Wastes

No waste or by-products are generated at the Site.

5.2.15.5 Raw Materials Handling and Storage

No raw materials are currently handled or stored at the Site.

5.2.15.6 Drums, Totes and Bins

No drums, totes and/or bins were identified.

5.2.15.7 Oil/Water Separators

No oil/water separators were observed.

5.2.15.8 Vehicle and Equipment Maintenance

No vehicle and/or equipment maintenance areas were identified.

5.2.15.9 Historic Spills

There have been no reported spills documented for the Site. Historical spills have been identified for other properties within the Phase One ESA Study Area. Refer to Section 3.2 and Table 3.2 for a list of all historic spills, as reported in historical reports and recorded in the Ontario Spill database.

5.2.15.10 Liquid Discharge Points

No liquid discharge points were identified.

5.2.15.11 Processing and Manufacturing

No processing or manufacturing activities occur at the Site.

5.2.15.12 **Hydraulic Lift Equipment**

No hydraulic lift equipment was identified.

5.3 Adjacent Properties

Adjacent properties within a 250 m radius from the Site were observed from publicly accessible places. Prior to the property development in 1958, the land-use is not known but may have been industrial as identified in the 1958 aerial photograph.

The Phase One property is bounded by the following:

North - Adjacent to the northern Site boundary is residential land use with a mix of single story and multi-tenant residential complexes extending to Powell Street.

East - Adjacent the eastern property boundary is a multi-tenant residential complex followed by a mix of residential and commercial properties extending to Bronson Avenue.

South - Adjacent to the southern Site boundary is Carling Avenue, followed by multiple single story residences which extends west to Dow's Lake Road and east to Bronson Avenue. Dows Lake and Park are located southwest of the Site.

West - Adjacent to the western Site boundary Bell Street followed by a parking lot owned and operated by Public Works Government Services Canada. Further west is Lebreton Street and institutional properties.

Potentially contaminating activities (PCAs) and areas of environmental concern (APECs) identified at and/or near the Site based on the records review, interview, and Site reconnaissance are described in Section 6.

6. Review and Evaluation of Information

6.1 Current and Past Uses

The current and past uses of the phase one property are summarized in Table 6-1.

Table 6-1: Current and Past Uses of Phase One Property

Year	Property Use
Prior to 1958	Unknown, Potentially Industrial
1958 – present	Parking Lot

6.2 Potentially Contaminating Activities Within the Phase One Study Area

Table 6-2 below summarizes the PCAs identified within the Phase One Study Area based on the records review, interview and Site reconnaissance. The PCAs are described in accordance with O. Reg. 153/04 (as amended), Schedule D, Table 2. Refer to Figure 3 in Appendix A.

Table 6-2: Potential Contaminating Activities (PCAs)

Potentially Contaminating Activity No.	Potentially Contaminating Activity	Details	Location of PCA
PCA 1	Unknown Historical Use prior to 1958. Possible Industrial.	HLUI Report documented a possible Quarry and an unnamed waste disposal site with unknown addresses. A 1958 aerial photo showed the Site as having ground disturbances and/or structures which could be part of Fraserfield Lumber Yard. Intera Consulting 1997 Phase II ESA Report documented metal concentrations exceeding selected guidelines	On Site – entire site
PCA 2	Former Lumber Yard, Former Quarry, Former UST location	HLUI Report documented a possible quarry and a former UST at the property immediately west of the Site. The 1915 FIP showed a surface pond. The 1915 FIP and 1958 aerial photo showed the area as potentially have	Off-Site – immediately west of the Site which includes the entire property west of Bell Street

		been part of Fraserfield Lumber Yard	
PCA 3	Lumber Yard	The 1901 FIP, 1915 FIP and 1958 aerial photo documented the area as part of Fraserfield Lumber Yard (HLUI documented area as J.R. Booth's Lumber Yard).	Off-Site - immediately south of Site
PCA 4	Gasoline and Associated Products Storage in Fixed Tanks	HLUI Report and the 1958 aerial photo documented the property located at the corner of Bronson Avenue and Carling Avenue as a retail fuel outlet from 1948 to 1980.	Off Site – approximately 135 m east of the site
PCA 5	Gasoline and Associated Products Storage in Fixed Tanks	HLUI Report, the 1958 aerial photo and 1965 FIP documented the property located at the corner of Bronson and Carling Avenues a retail fuel outlet from 1956 to 2005.	Off Site – approximately 140 m east - southeast of the site
PCA 6	Gasoline and Associated Products Storage in Fixed Tanks	The 1956 FIP and HLUI report documented the property located at Carling Avenue and Lebreton Street as a retail fuel outlet from 1941 to 1956. Water well records identified waste material on log descriptions for monitoring wells drilled on this property.	Off Site – approximately 100 m west of the site
PCA 7	PCB spill from Pole Transformer	ERIS report documented a PCB spill at the property located 326 Powell Street.	Off-Site – approximately 110 m North of the site
PCA 8	Gasoline and Associated Products Storage in Fixed Tanks	The 1956 FIP and HLUI report documented the property located at Carling Avenue and Booth Street as a retail fuel outlet from 1941 to 1956.	Off Site – approximately 125 m west of the site
PCA 9	Former Landfill	The HLUI report documented a former landfill (Ur-21) at the current location of Commissioner Park	Off Site – approximately 120 m southwest of the site

PCA 1:

As noted in Section 3.1.11, metal concentrations exceeding the CCME and/or MOE guidelines were documented in the 1997 Intera Consulting Phase II ESA report. The report indicated approximately 850 m^3 of metal impacted soil would require remediation. The HLUI report provided by the City indicated that the Site may have been a former waste disposal facility. The address and location of this facility is unknown. The 1928 aerial photograph showed the site as either having ground disturbance(s) and/or on-Site structures. The quality of the aerial photo was poor preventing a more detailed description. Because of documented metal concentrations in the fill material and data gaps of potential contaminants of concern (PCOCs) that may be associated with these former land-uses, the Site potentially has environmental liabilities associated with it.

PCAs 2 and 3:

The former presence of an unknown quarry and a lumber yard on the adjacent property to the west potentially poses an environmental concern to the Site. Similarly, the same lumber yard identified for the west adjacent property is the same for the south adjacent properties. The HLUI report identified one UST at the west adjacent property (PCA 2). Former operations at the former quarry, the former lumber yard and the former UST location may have the potential to impact the Site.

PCAs 4, 5, 6 and 8:

Historical reports have indicated that the possible direction of groundwater flow is southwest towards Dows Lake. The former presence of two gas service stations at the west corners of Carling and Bronson Avenues (east of the Site) poses an environmental concern at the Site. The former gas service stations located west of the Site are down-gradient and do not pose an environmental concern to the Site.

PCA 7

The ERIS reports indicated a spill database records of a poll transformer spill with approximately 53 litres of transformer oil being spilled to the ground in May 1988. No environmental impact was noted. Considering the direction of groundwater flow is towards the site from the northeast, this former spill does have the potential to be an environmental risk to the Site

PCA 8

The HLUI reported documented a former landfill (Ur-21) have once operated at the current location of Commissioner Park. Commissioner Park is located approximately 120 metres southwest of the site. Considering the direction of groundwater flow is towards the site from the northeast, this former landfill does not have the potential to be an environmental risk to the Site

6.3 Areas of Potential Environmental Concern on the Phase One Property

The PCAS as described in Section 6.2 contribute to one area of potential environmental concern (APEC) which includes the entire Site. Detailed information of the APEC is summarized in Table 6-3. The APEC is also identified on Figure 4 in Appendix A.

Table 6.3: Areas of Potential Environmental Concern (APEC)

APEC No.	Potential Source of Contamination	Contaminants of Potential Concern (COPCs)
APEC 1	On-site Sources: documented on-site metal concentrations exceeding MOE guidelines, possible disposal facility, unknown land-usage prior to 1958. Off-site sources: Possible waste disposal facility, former near-by quarry, former near-by lumber yard, nearby former retail fuel stations and USTs, near by PCB spill.	BTEX, PHCs F1 - F4, PAHs, VOCs, Phenols, pH, metals

Notes:
BTEX – Benzene, Toluene, Ethylbenzene, Xylenes
PHCs F1-F4 – Petroleum Hydrocarbons Fractions (F1 - F4)
VOCs – Volatile Organic Compounds
PAHs – Polycyclic Aromatic Hydrocarbons

6.4 Phase One Conceptual Site Model

Based on the historical review and site reconnaissance, DST concludes that there is a potential for soil and/or groundwater contamination at the Site. Information presented in this report that contributes to the development of a Conceptual Site Model (CSM) is presented as Figures 3 and 4.

The Phase One CSM is summarized as follows:

- City underground utilities such as storm, sewer and water were identified in the southwest corner of the site, adjacent the corner of Bell Street and Carling Avenue;
- No water wells were identified within the Phase One Study area however several observation/ monitoring wells were identified at the Site and surrounding properties;
- Surrounding properties are a mix of residential, institutional, parkland and commercial;
- Road Names are summarized on Figures 2 to 4;
- The site is a parking lot with no on-Site structures;
- The site is approximately 74 masl and slopes slightly to the south – southwest towards Dows Lake (approximately 355 m). The surrounding lands also slope south – southwest;
- Surficial geology of the Site (1997 Phase II ESA Report by Intera Consultants Ltd) indicate that approximate 0.6 m of clayey sandy and gravelly fill overlies limestone bedrock;
- Groundwater elevations documented for the site was approximately 0.8 m deep with an assumed groundwater flow direction to the southwest;
- At least 8 PCAs were identified which has led to the entire Site being considered as an APEC (APEC 1).

Information considered for the development of this CSM was gathered from numerous sources (i.e., aerial photographs, city directories, environmental database searches, physical setting sources, historical reports, interviews and a site reconnaissance), which reduces the potential for not identifying a former property use and/or PCA.

7. Conclusions

7.1 Requirement for Phase Two ESA

A Phase Two ESA to assess the soil and groundwater conditions at the site is recommended and is also required for a RSC.

7.2 Signature

DST confirms that the carrying out of the Phase One ESA has been supervised and approved by a Qualified Person, as defined by O. Reg. 153/04 (as amended), and further confirms the findings and conclusions of this report. Assessor qualifications are presented in Appendix F.

We trust that the above meets your present requirements; should you have any questions or concerns regarding this report, please feel free to contact the undersigned at your convenience.

Sincerely,

For **DST CONSULTING ENGINEERS INC.,**

Ginger Rogers, P.Geo., QP
Senior Project Manager

Eric Domingue, P.Eng., M.A.Sc., QP
Regional Manager, Technical Services Group

8. References

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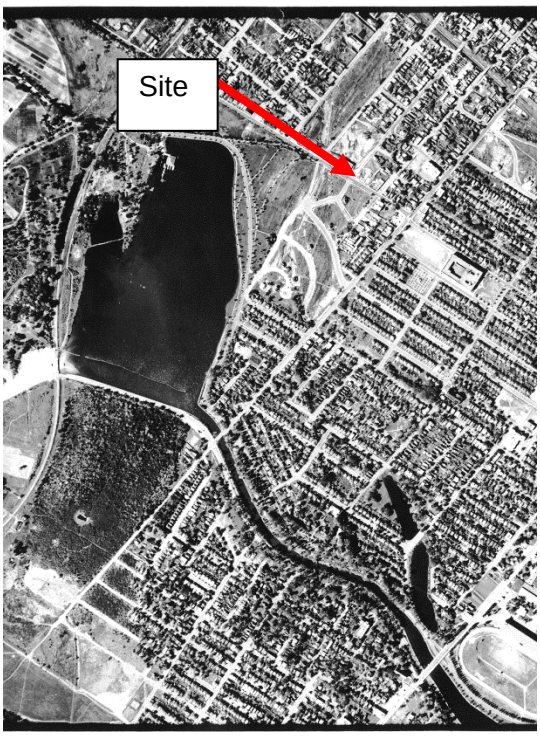
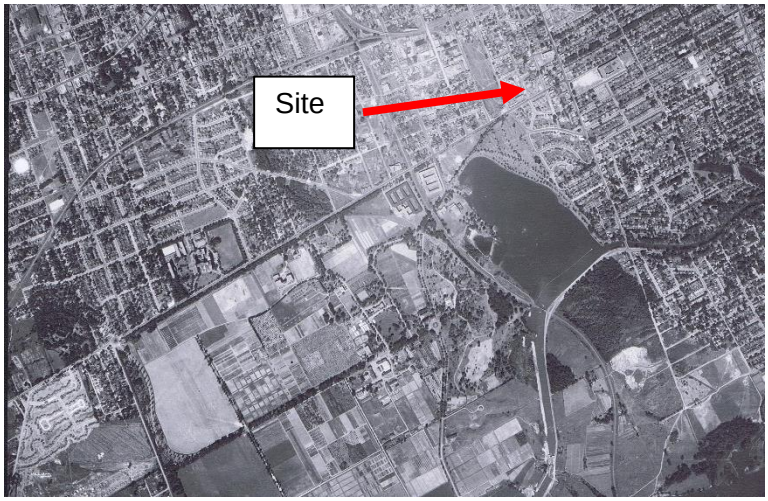
APPENDIX A

Figures

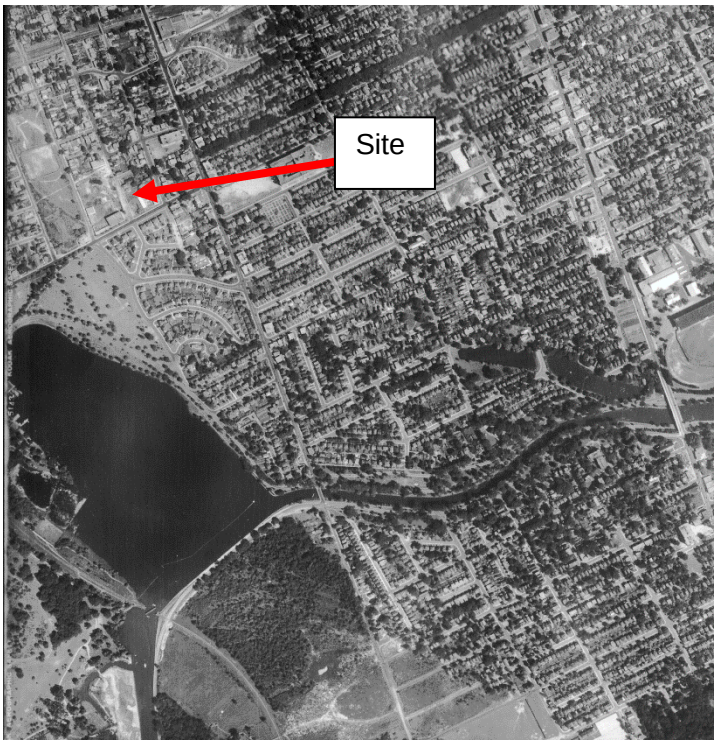
geoOttawa Aerial - 1928



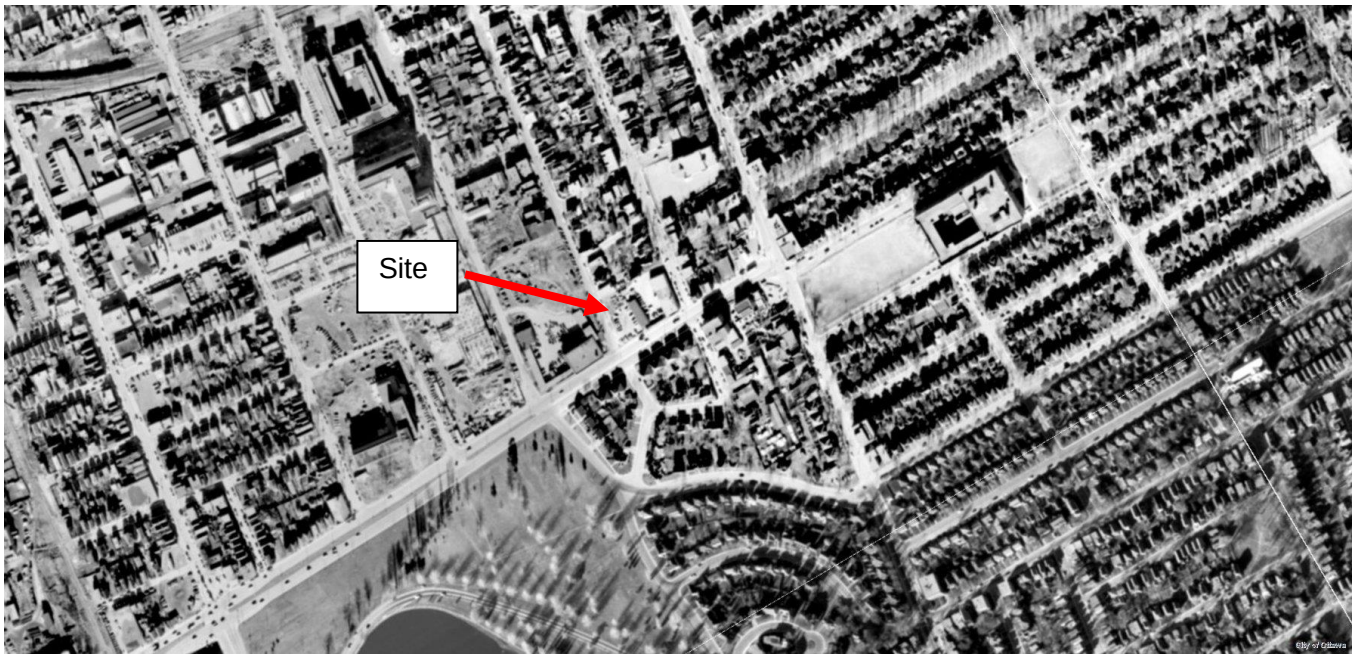
National Air Photo - 1938



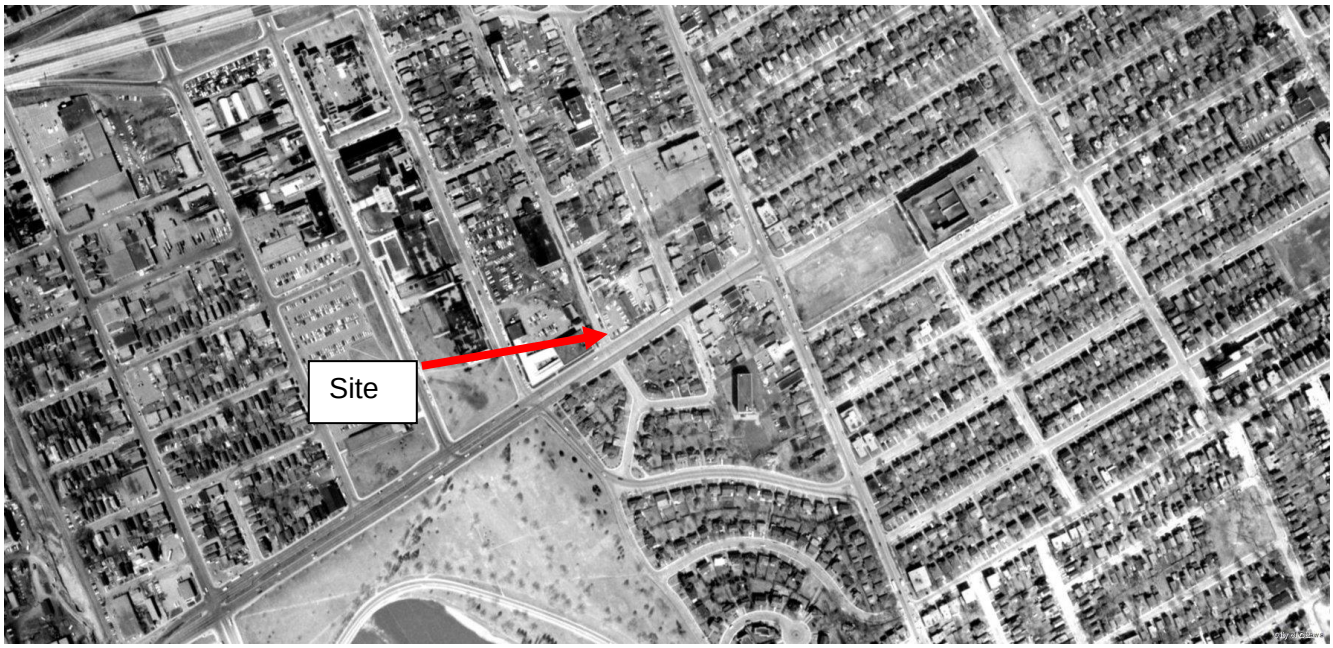
National Air Photo - 1946



National Air Photo - 1950

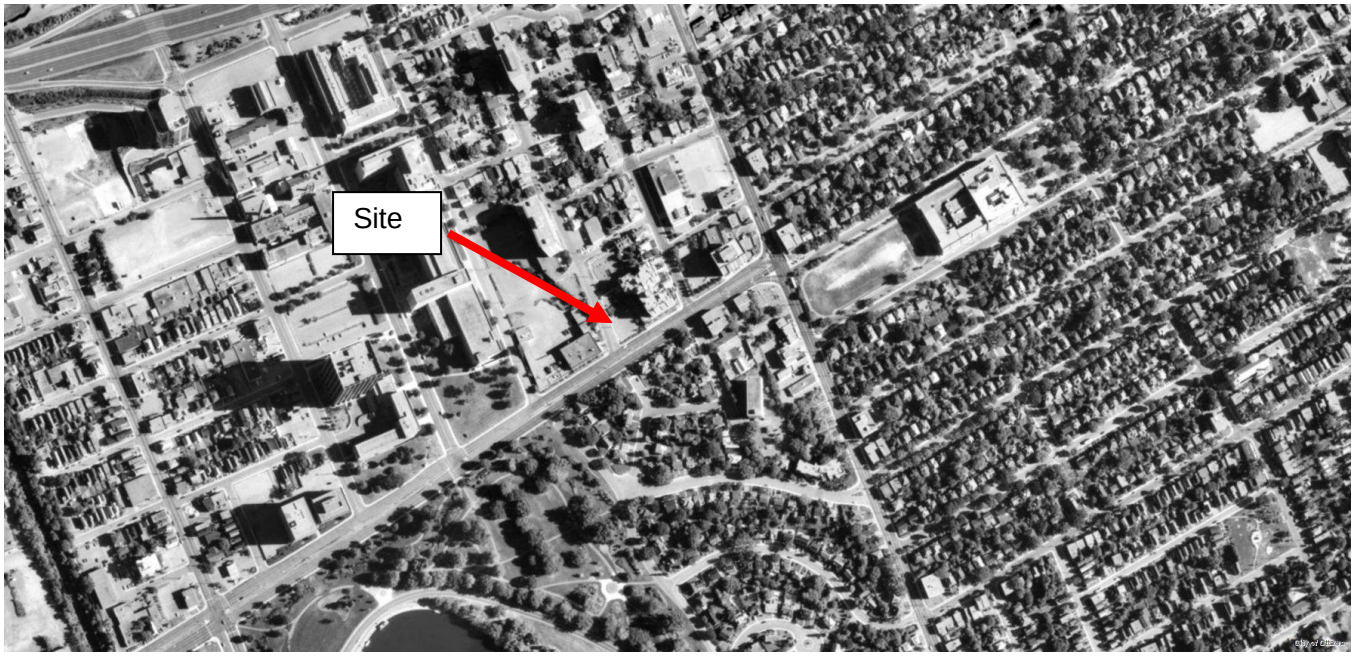


geoOttawa Aerial - 1958



geoOttawa Aerial - 1965

GeoOttawa Aerial - 1976



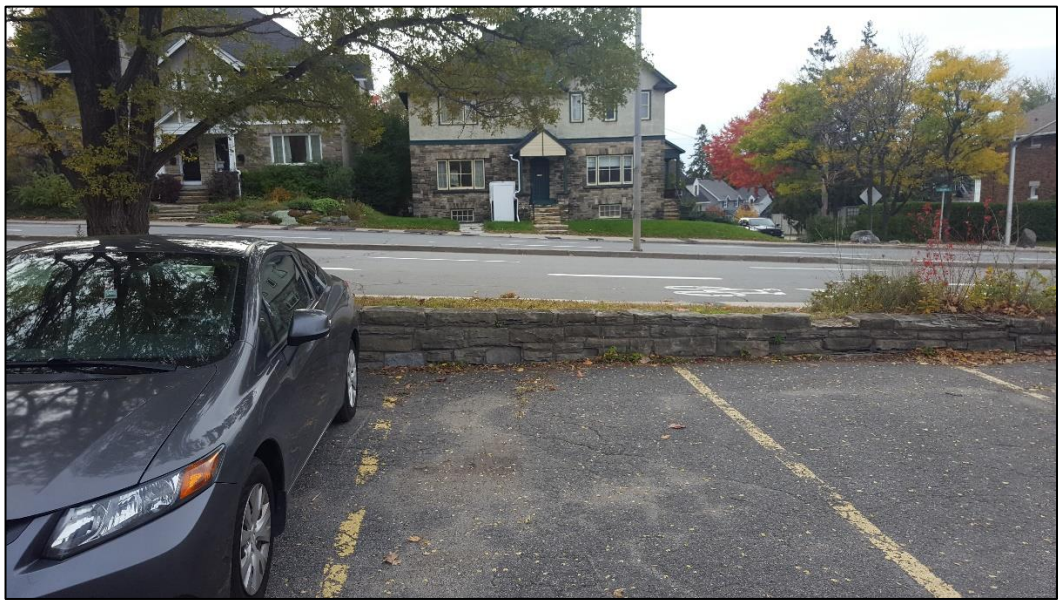
geoOttawa Aerial - 1991

geoOttawa Aerial - 2011

geoOttawa Aerial - 2014

APPENDIX E

Site Photographs

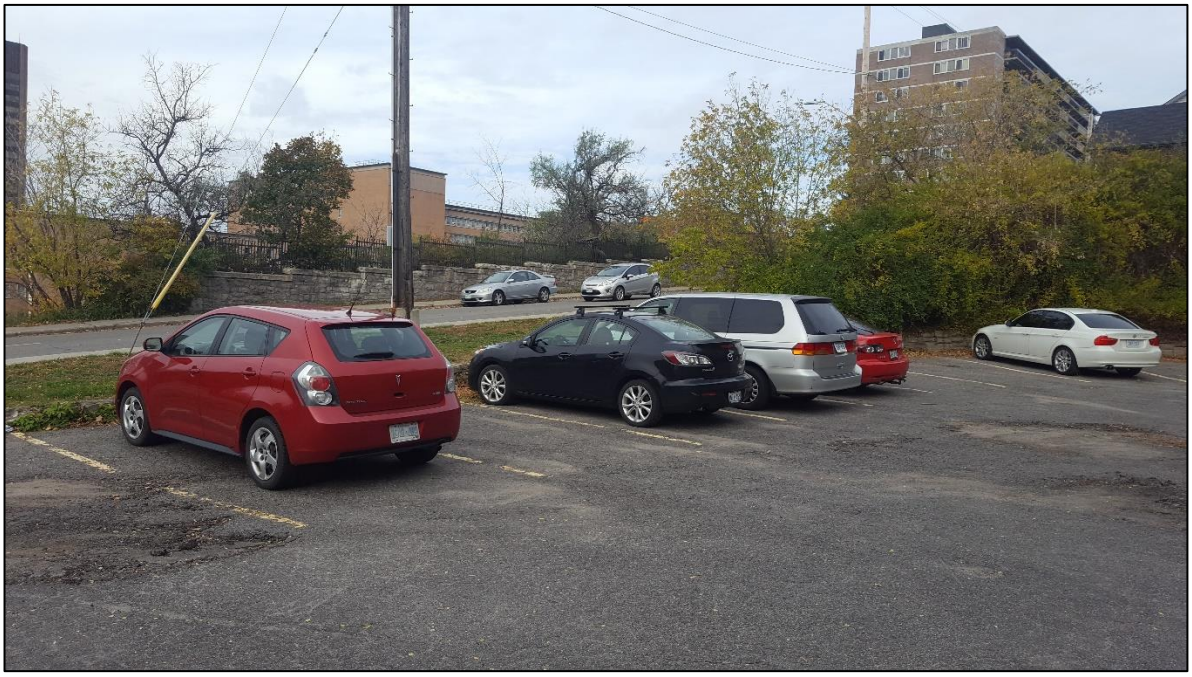


Photograph 1: View of south side of Site, facing south (October 27, 2016)

Photograph 2: View of Carling Avenue from south side of Site, facing southeast (October 27, 2016)

Photograph 3: View of adjacent properties to the south, facing southwest (October 27, 2016)

Photograph 4: View of Site entrance and west adjacent property, facing west (October 27, 2016)



Photograph 5: View of Site looking northwest towards Bell Street (October 27, 2016)

Photograph 6: View of north side of Site (October 27, 2016)

Photograph 7: View of northeast corner of Site (October 27, 2016)

Photograph 8: View of adjacent property to the east, view northeast (October 27, 2016)

Photograph 9: Adjacent property to the east of Site (October 27, 2016)

Photograph 10: View of retaining wall at east property boundary (October 27, 2016)

Photograph 12: View of diesel generator locate on east adjacent property (October 27, 2016).

Photograph 13: Photo of worn and damaged asphalt (October 27, 2016).

Photograph 14: Photo of damaged asphalt near parking lot entrance (October 27, 2016).

APPENDIX F

Qualifications of Assessor(s)

Qualifications of Assessors

Ginger Rogers, P.Geo., is a Senior Project Manager and qualified professional with over 19 years of geological, environmental and project management experience. She has managed numerous large-scale, high budget, highly complex projects involving site conceptual modelling, geological mapping, hydrogeological assessments, environmental site assessments, contaminated site remediation, environmental liability assessments, environmental audits, facility decommissioning and risk assessment/management, for industrial and commercial clients as well as major petroleum operators, both downstream and upstream. She has been involved in various projects throughout Canada. She has managed teams of engineers, geoscientists and other professionals in environmental consulting industry.

Eric Domingue, P.Eng., M.A.Sc., is a geological engineer with 19 years of experience in environmental field studies including all Phases for ESA's, risk assessment field work, site remediation, specifications and tender documents, site supervision, audit management/remediation environmental compliance audits and mining consulting services. He participated in the creation of guidelines for providing safe drinking water in areas of federal jurisdiction on behalf of the Interdepartmental Working Group on Drinking Water Health Canada, and authored the Drinking Water Guidelines and Implementation Framework for Canadian Diplomatic Missions on behalf of Foreign Affairs Canada. He has been involved in various projects in Canada and abroad. He has managed teams of engineers and professionals in environmental, geotechnical, civil and structural engineering.

APPENDIX G

Limitations of Report

Limitations of Report

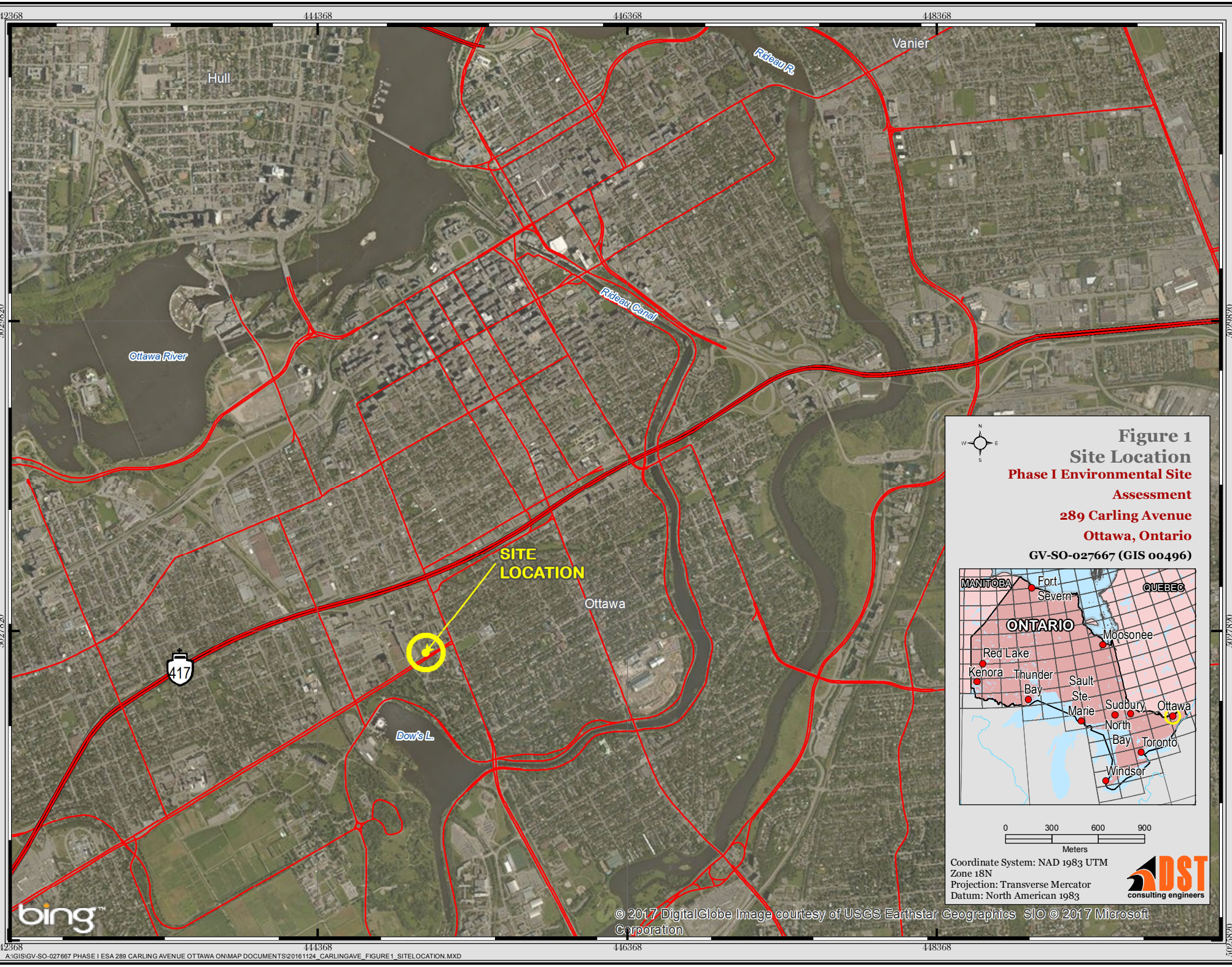
DST Consulting Engineers Inc. (DST) has prepared this report for the exclusive use of the City of Ottawa. The information, conclusions and recommendations given herein are specific for this project and the City of Ottawa only, for the scope of work described herein. DST will not be responsible for the use of this report by any third party, or reliance on or any decision to be made based on it without the prior written consent of DST. DST accepts no responsibility for damages, if any, suffered by any third party as a result of decisions or actions based on this report.

This report presents an overview of issues of potential environmental concern, reflecting DST's best judgment using information reasonably available at the time of DST's Site reconnaissance. The assessment was partly based on information from various sources of which the accuracy has not been verified, and because observations made during the Site reconnaissance may have been limited by existing conditions, this report does not guarantee that the subject property is free of hazardous or potentially hazardous material or conditions, or that latent or undiscovered conditions will not become evident in the future. DST has prepared this report using information understood to be factual and correct and shall not be responsible for conditions arising from information or facts that were concealed or not fully disclosed to DST at the time of the Site reconnaissance and assessment.

The conclusions regarding environmental conditions, which are presented in this report, are based on a scope of work authorized by the City of Ottawa. Note, however, that virtually no scope of work, no matter how exhaustive, can identify all contaminants or all conditions above and below ground. This report therefore cannot warrant that all conditions on or off the subject property have been identified within this assessment.

Since onsite and surrounding activities are beyond DST's control, and can change at any time after the completion of this assessment, the observations, findings, and opinions can be considered valid only as of the date provided on this report.

Conclusions and recommendations contained in this assessment were developed in accordance with currently accepted engineering standards and practices. Standards, guidelines and practices related to environmental investigations may change over time. Those which were applied at the time of this investigation may be obsolete or unacceptable at a later date.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Ottawa River
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Dow's L.
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Figure 1
Site Location
Phase I Environmental Site
Assessment
289 Carling Avenue
Ottawa, Ontario
GV-SO-027667 (GIS 00496)
MANITOBA
Fort
Severn
QUEBEC
ONTARIO
Moosonee
Red Lake
Kenora
Thunder
Bay
Sault
Ste.
Marie
Sudbury
Ottawa
North
Bay
Toronto
Windsor
0
300
600
900
Meters
Coordinate System: NAD 1983 UTM
Zone 18N
Projection: Transverse Mercator
Datum: North American 1983
DST
consulting engineers
A:\GIS\GV-SO-027667 PHASE I ESA 289 CARLING AVENUE OTTAWA ON\MAP DOCUMENTS\20161124_CARLINGAVE_FIGURE1_SITELOCATION.MXD

444763

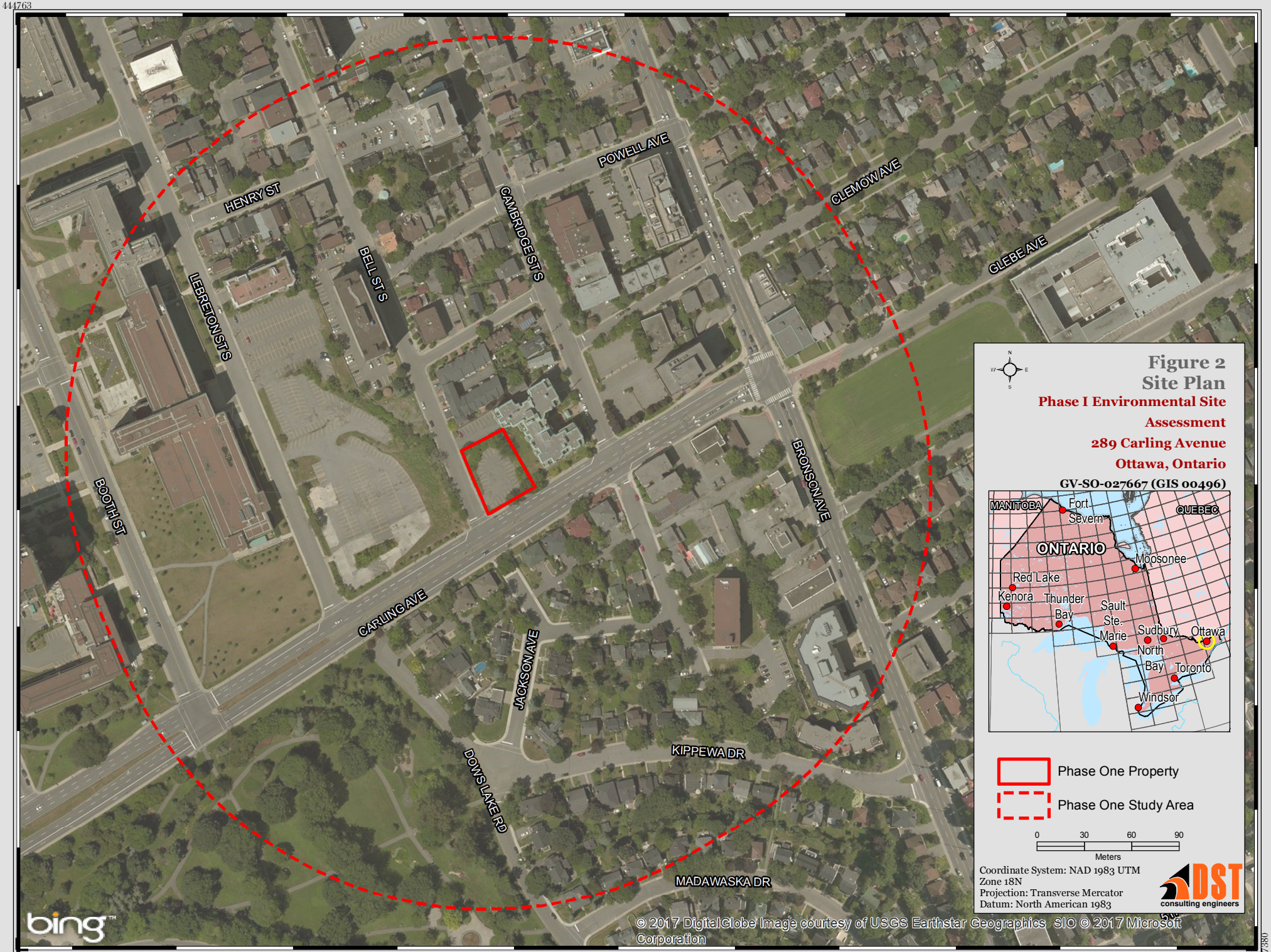

Figure 2
Site Plan

Phase I Environmental Site Assessment

289 Carling Avenue

Ottawa, Ontario

GV-SO-027667 (GIS 00496)

Phase One Property

Phase One Study Area

0 30 60 90

Meters

Coordinate System: NAD 1983 UTM Zone 18N
Projection: Transverse Mercator
Datum: North American 1983

DST consulting engineers

444763

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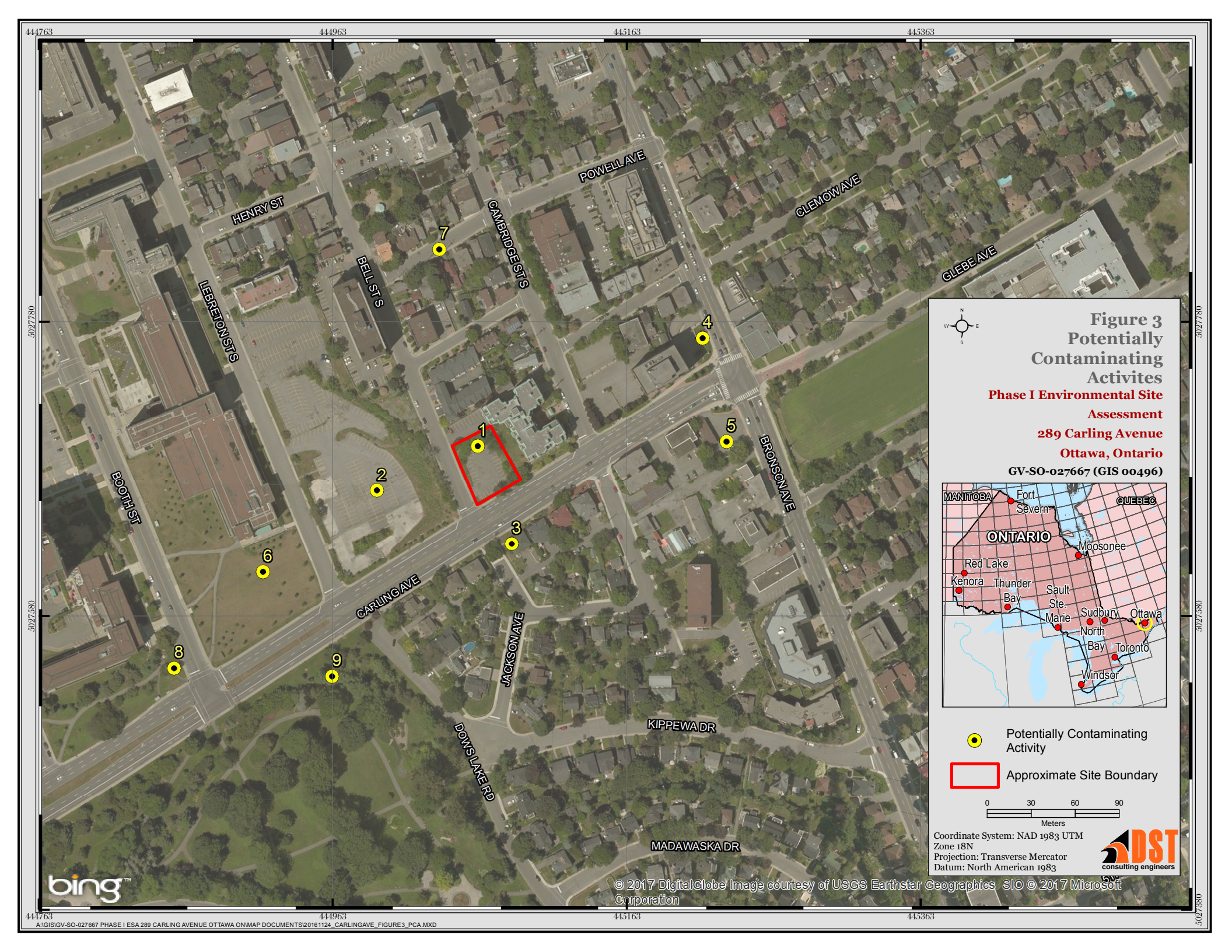
444763
444963
445163
445363
5027780
5027580
5027380
HENRY ST
POWELL AVE
CLEMOW AVE
GLEBE AVE
CAMBRIDGE ST S
BELL ST S
LEBRETON ST S
BOOTH ST
BRONSON AVE
CARLING AVE
JACKSON AVE
DOWS LAKE RD
KIPPEWA DR
MADAWASKA DR
1
2
3
4
5
6
7
8
9
bing
© 2017 DigitalGlobe Image courtesy of USGS Earthstar Geographics SIO © 2017 Microsoft Corporation
Figure 3
Potentially Contaminating Activites
Phase I Environmental Site Assessment
289 Carling Avenue
Ottawa, Ontario
GV-SO-027667 (GIS 00496)
MANITOBA
Fort Severn
QUEBEC
ONTARIO
Moosonee
Red Lake
Kenora
Thunder Bay
Sault Ste. Marie
Sudbury
Ottawa
North Bay
Toronto
Windsor
Potentially Contaminating Activity
Approximate Site Boundary
0 30 60 90
Meters
Coordinate System: NAD 1983 UTM Zone 18N
Projection: Transverse Mercator
Datum: North American 1983
DST consulting engineers
A:\GIS\GV-SO-027667 PHASE I ESA 289 CARLING AVENUE OTTAWA ON\MAP DOCUMENTS\20161124_CARLINGAVE_FIGURE3_PCA.MXD


444999
445069
445139
5027682
5027612
BELL ST S
APEC 1
CARLING AVE
bing
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Figure 4
Area of Potential Environmental Concern
Phase I Environmental Site Assessment
289 Carling Avenue
Ottawa, Ontario
GV-SO-027667 (GIS 00496)
MANITOBA
Fort Severn
QUEBEC
ONTARIO
Moosonee
Red Lake
Kenora
Thunder Bay
Sault Ste. Marie
Sudbury
Ottawa
North Bay
Toronto
Windsor
Area of Potential Environmental Concern
Approximate Site Boundary
0
10
20
Meters
Coordinate System: NAD 1983 UTM Zone 18N
Projection: Transverse Mercator
Datum: North American 1983
DST consulting engineers
A:\GIS\GV-SO-027667 PHASE I ESA 289 CARLING AVENUE OTTAWA ON\MAP DOCUMENTS\20161124_CARLINGAVE_FIGURE4_APEC.MXD

APPENDIX B

Historical Documentation

ENVIRONMENTAL RISK INFORMATION SERVICES

DATABASE REPORT

Project Property:	*Phase I ESA - 289 Carling Avenue* *289 Carling Ave* *Ottawa ON K1S2E4*
Project No:	*GV-SO-027667*
Report Type:	*Quote - Custom-Build Your Own Report*
Order No:	*20161003159*
Requested by:	*DST Consulting Engineers Inc.*
Date Completed:	*November 9, 2016*

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

www.erisinfo.com

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Unplottable Report.....121
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Definitions.....155

Executive Summary

Property Information:

Project Property:	*Phase I ESA - 289 Carling Avenue* *289 Carling Ave Ottawa ON K1S2E4*
Project No:	*GV-SO-027667*

Order Information:

Order No:	*20161003159*
Date Requested:	*October 3, 2016*
Requested by:	*DST Consulting Engineers Inc.*
Report Type:	*Quote - Custom-Build Your Own Report*

Additional Products:

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Boundary to 0.25km	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	4	4
CA	Certificates of Approval	Y	0	6	6
CFOT	Commercial Fuel Oil Tanks	Y	0	0	0
CHEM	Chemical Register	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
EASR	Environmental Activity and Sector Registry	Y	0	0	0
EBR	Environmental Registry	Y	0	0	0
ECA	Environmental Compliance Approval	Y	0	0	0
EEM	Environmental Effects Monitoring	Y	0	0	0
EHS	ERIS Historical Searches	Y	0	15	15
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	10	10
FCON	Federal Convictions	Y	0	0	0
FCS	Contaminated Sites on Federal Land	Y	0	2	2
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	87	87
GHG	Greenhouse Gas Emissions from Large Facilities	Y	0	0	0
HINC	TSSA Historic Incidents	Y	0	0	0
IAFT	Indian & Northern Affairs Fuel Tanks	Y	0	0	0
INC	TSSA Incidents	Y	0	0	0
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

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
NDFT	National Defense & Canadian Forces Fuel Tanks	Y	0	0	0
NDSP	National Defense & Canadian Forces Spills	Y	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Y	0	0	0
NEBW	National Energy Board Wells	Y	0	0	0
NEES	National Environmental Emergencies System (NEES)	Y	0	0	0
NPCB	National PCB Inventory	Y	0	1	1
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	1	1
ORD	Orders	Y	0	0	0
PAP	Canadian Pulp and Paper	Y	0	0	0
PCFT	Parks Canada Fuel Storage Tanks	Y	0	0	0
PES	Pesticide Register	Y	0	1	1
PINC	TSSA Pipeline Incidents	Y	0	1	1
PRT	Private and Retail Fuel Storage Tanks	Y	0	2	2
PTTW	Permit to Take Water	Y	0	0	0
REC	Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0
RSC	Record of Site Condition	Y	0	0	0
RST	Retail Fuel Storage Tanks	Y	0	0	0
SCT	Scott's Manufacturing Directory	Y	0	11	11
SPL	Ontario Spills	Y	0	13	13
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	4	4
	Total:		0	158	158

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number

No records found in the selected databases for the project property.

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
1	CA	Carleton Condominium Corporation No. 472	550 Cambridge St S Ottawa ON	ENE/43.3	4.42	26
2	PINC		7 Frederick Place,Ottawa ON K1S 3G1	SSE/69.8	-1.93	26
3	EHS		280 Carling Avenue Ottawa ON K1S 2E2	E/71.2	3.80	27
4	FCS		Ottawa ON	WNW/71.4	-4.11	27
5	WWIS		ON	ESE/78.0	1.18	27
6	SCT	SCAFFOLD-FAST INC.	385 BELL ST S OTTAWA ON K1S 4K3	NNW/80.1	4.04	33
7	CA	Canci Homes Corporation Inc.	385 Bell Street Ottawa ON	NNW/80.4	4.02	33
8	GEN	Associated Endodontists	265 Carling Ave, unit 620 Ottawa ON K1S2E1	ENE/83.2	3.79	34
8	GEN	265 Carling Avenue Ltd.	265 Carling Ave Ottawa ON	ENE/83.2	3.79	34
8	GEN	Associated Endodontists	265 Carling Ave, unit 620 Ottawa ON	ENE/83.2	3.79	34
8	GEN	265 Carling Avenue Ltd.	265 Carling Ave Ottawa ON K1S 2E1	ENE/83.2	3.79	35
9	WWIS		Ottawa ON	NE/95.7	4.13	35
10	GEN	GVT. OF (OUT OF BUSINESS)ES & RESOURCES	401 LEBRETON STREET OTTAWA ON K1A 0E8	WSW/103.4	-6.48	37
10	GEN	GVT. OF CAN. - ENERGY MINES & RESOURCES	401 LEBRETON STREET OTTAWA ON K1A 0E8	WSW/103.4	-6.48	38
10	GEN	GVT. OF CAN. - ENERGY MINES & RES.	TERRAIN SCIENCES GEOLOGICAL SURVEY 401 LEBRETON ST. OTTAWA ON K1A 0E8	WSW/103.4	-6.48	38
10	GEN	GVT. OF CAN. - ENERGY MINES & RES.18-270	TERRAIN SCIENCES GEOLOGICAL SURVEY 401 LEBRETON ST. OTTAWA ON K1A 0E8	WSW/103.4	-6.48	38
10	GEN	Quantum Murray LP	401 Lebreton Street Ottawa ON	WSW/103.4	-6.48	39
10	OPCB	ENERGY MINES AND RESOURCES	TERRAIN SCIENCES DIVISION 401 LIBRETON ST. OTTAWA ON	WSW/103.4	-6.48	3
10	PES	TERRAPRO CORPORATION	401-A LEBRETON STREET SOUTH OTTAWA ON K1S 4L5	WSW/103.4	-6.48	3
11	GEN	BLACK & MCDONALD LIMITED	557 CAMBRIDGE STREET SOUTH OTTAWA ON K1S 4J4	ESE/106.5	0.52	39
11	GEN	BLACK & MCDONALD LIMITED 05-619	557 CAMBRIDGE STREET SOUTH OTTAWA ON K1S 4J4	ESE/106.5	0.52	39
12	EHS		265 Carling Avenue Ottawa ON K1S 2E1	ENE/108.3	3.56	40

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
12	EHS		265 Carling Ave Ottawa ON K1S 2E1	ENE/108.3	3.56	40
12	GEN	Taggart Corporation	265 Carling Ave Ottawa ON K1S 2E1	ENE/108.3	3.56	40
12	GEN	265 Carling Avenue Ltd.	265 Carling Ave Ottawa ON K1S 2E1	ENE/108.3	3.56	40
12	GEN	265 Carling Avenue Ltd.	265 Carling Ave Ottawa ON K1S 2E1	ENE/108.3	3.56	41
12	GEN	265 Carling Avenue Ltd.	265 Carling Ave Ottawa ON K1S 2E1	ENE/108.3	3.55	41
12	GEN	265 Carling Avenue Ltd.	265 Carling Ave Ottawa ON K1S 2E1	ENE/108.3	3.55	41
12	GEN	Taggart Corporation	265 Carling Ave Ottawa ON K1S 2E1	ENE/108.3	3.56	41
12	SCT	Nortak Software Ltd.	265 Carling Ave Floor 7 Ottawa ON K1S 2E1	ENE/108.3	3.56	42
12	SCT	Assn Faculties Medicine of Cda	265 Carling Ave Suite 800 Ottawa ON K1S 2E1	ENE/108.3	3.56	42
12	SCT	NORTAK SOFTWARE LTD	265 CARLING AVE FLOOR 7 OTTAWA ON K1S 2E1	ENE/108.3	3.56	42
12	SCT	Beyond 20/20 Inc.	265 Carling Ave Suite 500 Ottawa ON K1S 2E1	ENE/108.3	3.56	42
12	SCT	Cdn Post-M.D. Education Regist	265 Carling Ave Suite 800 Ottawa ON K1S 2E1	ENE/108.3	3.56	42
13	SPL	PUC	POLE TRANSFORMER OPPOSITE 326 POWELL STREET. OTTAWA CITY ON K1S 2A8	NNW/108.8	3.99	43
14	EHS		515 Cambridge Street Ottawa ON K1S 4H9	NNE/113.1	2.62	43
14	EHS		515 Cambridge St Ottawa ON K1S 4H9	NNE/113.1	2.62	43
14	GEN	OTTAWA-CARLETON DISTRICT SCHOOL BOARD	BORDEN HIGH SCHOOL 515 CAMBRIDGE STREET SOUTH OTTAWA ON K1S 4H9	NNE/113.1	2.62	44
14	GEN	OTTAWA BOARD OF EDUCATION 29-129	BORDEN HIGH SCHOOL 515 CAMBRIDGE ST. S. C/O 330 GILMOURST OTTAWA ON K2P 0P9	NNE/113.1	2.62	44
14	GEN	OTTAWA BOARD OF EDUCATION	515 CAMBRIDGE STREET SOUTH BORDEN HIGH SCHOOL OTTAWA ON K1S 4H9	NNE/113.1	2.62	44
14	GEN	OTTAWA BOARD OF EDUCATION	BORDEN HIGH SCHOOL 515 CAMBRIDGE ST. S. C/O 330 GILMOURST OTTAWA ON K2P 0P9	NNE/113.1	2.62	45
15	EHS		774 Bronson Ave Ottawa ON K1S4G4	ESE/123.0	2.41	45
16	GEN	DEPT. OF NATIONAL DEFENSE	MAPPING & CHARTING ESTABLISHMENT 360 LEBRETON STREET OTTAWA ON K1A 0E9	W/128.5	-4.26	45
16	GEN	DEPT. OF NATIONAL DEFENSE	MAPPING & CHARTING ESTABLISHMENT 360 LEBRETON STREET OTTAWA ON	W/128.5	-4.26	46
16	GEN	GVT OF CAN - NATIONAL DEFENSE	MAPPING & CHARTING ESTABLISHMENT 360 LEBRETON STREET OTTAWA ON K1A 0E9	W/128.5	-4.26	47

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
16	GEN	DEPT. OF NATIONAL DEFENSE	MAPPING & CHARTING ESTABLISHMENT 360 LEBRETON STREET OTTAWA ON	W/128.5	-4.26	47
16	GEN	DEPT. OF NATIONAL DEFENSE	MAPPING & CHARTING ESTABLISHMENT 360 LEBRETON STREET OTTAWA ON K1A 0E9	W/128.5	-4.26	48
16	GEN	DEPT. OF NATIONAL DEFENSE	MAPPING & CHARTING ESTABLISHMENT 360 LEBRETON STREET OTTAWA ON	W/128.5	-4.26	49
16	GEN	DEPT. OF NATIONAL DEFENSE	MAPPING & CHARTING ESTABLISHMENT 360 LEBRETON STREET OTTAWA ON K1A 0E9	W/128.5	-4.26	50
16	GEN	DEPT. OF NATIONAL DEFENSE	MAPPING & CHARTING ESTABLISHMENT 360 LEBRETON STREET OTTAWA ON	W/128.5	-4.26	51
16	GEN	GVT OF CAN - NATIONAL DEFENSE 17-505	MAPPING & CHARTING ESTABLISHMENT 360 LEBRETON STREET OTTAWA ON K1A 0E9	W/128.5	-4.26	52
17	BORE		ON	WSW/133.5	-7.45	52
18	EHS		256 Carling Avenue Ottawa ON K1S 2E1	ENE/136.9	3.15	53
19	EHS		770 Bronson Ave Ottawa ON K1S4G4	E/136.9	2.89	53
19	EXP	EMILIO LINDIA ENTERPRISES LTD	770 BRONSON AV OTTAWA ON K1S 4G4	E/136.9	2.89	53
19	EXP	EMILIO LINDIA ENTERPRISES LTD	770 BRONSON AV OTTAWA ON K1S 4G4	E/136.9	2.89	53
19	EXP	EMILIO LINDIA ENTERPRISES LTD	770 BRONSON AV OTTAWA ON K1S 4G4	E/136.9	2.89	54
19	EXP	EMILIO LINDIA ENTERPRISES LTD	770 BRONSON AV OTTAWA ON K1S 4G4	E/136.9	2.89	54
19	EXP	EMILIO LINDIA ENTERPRISES LTD	770 BRONSON AV OTTAWA ON K1S 4G4	E/136.9	2.89	54
19	EXP	EMILIO LINDIA ENTERPRISES LTD	770 BRONSON AV OTTAWA ON K1S 4G4	E/136.9	2.89	54
19	EXP	EMILIO LINDIA ENTERPRISES LTD	770 BRONSON AV OTTAWA ON K1S 4G4	E/136.9	2.89	55
19	EXP	EMILIO LINDIA ENTERPRISES LTD	770 BRONSON AV OTTAWA ON	E/136.9	2.89	55
19	EXP	EMILIO LINDIA ENTERPRISES LTD	770 BRONSON AV OTTAWA ON K1S 4G4	E/136.9	2.89	55
19	EXP	EMILIO LINDIA ENTERPRISES LTD	770 BRONSON AV OTTAWA ON K1S 4G4	E/136.9	2.89	55
20	EHS		770 Bronson Avenue Ottawa ON K1S 4G4	E/139.1	2.81	56
20	PRT	EMILIO LINDIA ENTERPRISES LTD	770 BRONSON AV OTTAWA ON K1S4G4	E/139.1	2.81	56
20	PRT	EMILIO LINDIA ENTERPRISES LTD	770 BRONSON AV OTTAWA ON K1S 4G4	E/139.1	2.81	56

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
21	EHS		786 Bronson Ave Ottawa ON K1S4G4	ESE/156.0	1.27	56
22	SPL		Bronson Ave and Carling Ave Ottawa ON	ENE/159.6	2.65	56
22	SPL	OTTAWA HYDRO	CORNER OF CARLING & BRONSON OTTAWA TRANSFORMER OTTAWA CITY ON	ENE/159.6	2.65	57
23	GEN	Goodex Equipment Rental Ltd	515 Cambridge St. Ottawa ON	NNE/160.5	0.59	57
24	EHS		345 Lebreton Street Ottawa ON K1A 0E9	NW/161.0	-0.53	57
25	SPL		315 Powell Avenue<UNOFFICIAL> Ottawa ON	N/168.9	2.34	57
26	CA	R.M. OF OTTAWA-CARLETON	CLEMOW AVE/BRONSON AVE/BANK ST OTTAWA CITY ON	NE/173.2	1.81	58
27	EHS		482 Cambridge St S Ottawa ON K1S4H7	NNW/174.9	2.58	58
28	WWIS		 Ottawa ON	WSW/176.9	-8.64	58
29	GEN	HYDRO OTTAWA LIMITED	247 GLEBE OTTAWA ON K1S 2C8	ENE/182.8	3.41	76
29	GEN	OTTAWA HYDRO	247 GLEBE AVENUE OTTAWA ON K1S 2C8	ENE/182.8	3.41	76
30	SCT	K&R Dental Laboratories Ltd.	794 Bronson Ave Ottawa ON K1S 4G4	ESE/184.4	-0.02	76
30	SCT	K & R Dental Laboratories Ltd	794 Bronson Ave Ottawa ON K1S 4G4	ESE/184.4	-0.02	77
30	SCT	K & R Dental Laboratories Ltd.	794 Bronson Ave Ottawa ON K1S 4G4	ESE/184.4	-0.02	77
30	SCT	Shaw Laboratories	794 Bronson Ave Ottawa ON K1S 4G4	ESE/184.4	-0.02	77
31	CA	PUBLIC WORKS & GOVT. SERVICES CANADA	615 BOOTH STREET OTTAWA CITY ON	WNW/186.8	-7.28	77
31	GEN	GVT. OF CAN. - ENERGY MINES & RES.18-151	GEOLOGICAL SURVEY OF CANADA 601 BOOTH STREET OTTAWA ON K1A 0E8	WNW/186.8	-7.30	78
31	GEN	GVT. OF CAN. - NATURAL RESOURCES CANADA	Room 721 601 Booth Street OTTAWA ON	WNW/186.8	-7.30	78
31	GEN	BROOKFIELD JOHNSON CONTROLS	601 Booth St. Ottawa ON	WNW/186.8	-7.30	79
31	GEN	GVT. OF CAN. - ENERGY MINES & RES.	GEOLOGICAL SURVEY OF CANADA 601 BOOTH STREET OTTAWA ON K1A 0E8	WNW/186.8	-7.30	79
31	GEN	GVT. OF CAN. - NATURAL RESOURCES CANADA	Room 721 601 Booth Street OTTAWA ON K1A 0E8	WNW/186.8	-7.30	80
31	GEN	GVT. OF CAN.-ENERGY, MINES & RES.	GEOLOGICAL COMMISSION OF CANADA 601 BOOTH ST. OTTAWA ON K1A 0E4	WNW/186.8	-7.30	81
31	GEN	GVT. OF CAN. - NATURAL RESOURCES CANADA	GEOLOGICAL SURVEY OF CANADA 601 BOOTH STREET OTTAWA ON K1A 0E8	WNW/186.8	-7.30	81
31	GEN	GVT. OF CAN. - NATURAL RESOURCES CANADA	Room 721 601 Booth Street OTTAWA ON	WNW/186.8	-7.30	82
31	GEN	GVT. OF CAN.-ENERGY, MINES & RES. 18-249	GEOLOGICAL COMMISSION OF CANADA 601 BOOTH ST. OTTAWA ON K1A 0E4	WNW/186.8	-7.30	83

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
31	GEN	GVT. OF CAN. - ENERGY MINES & RES.	GEOLOGICAL SURVEY OF CANADA 601 BOOTH ST. OTTAWA ON K1A 0E8	WNW/186.8	-7.30	83
31	GEN	GVT. OF CAN. - NATURAL RESOURCES CANADA	Room 721 601 Booth Street OTTAWA ON	WNW/186.8	-7.30	84
31	GEN	HEALTH AND WELFARE CANADA	601 BOOTH STREET (EMR) HEALTH UNIT #7, RM 136 OTTAWA ON K1A 0E4	WNW/186.8	-7.30	84
31	GEN	GVT. OF CAN. - NATURAL RESOURCES CANADA	Room 721 601 Booth Street OTTAWA ON	WNW/186.8	-7.30	85
31	GEN	HEALTH AND WELFARE CANADA	HEALTH UNIT#7, RM. 136 601 BOOTH ST. (EMR) OTTAWA ON K1A 0E4	WNW/186.8	-7.30	86
31	GEN	Brookfield Global Integrated Solutions	615 Booth Street Ottawa ON K1A0E9	WNW/186.8	-7.28	86
31	GEN	SNC Lavalin	615 Booth Street Ottawa ON	WNW/186.8	-7.28	87
31	GEN	SNC Lavalin	615 Booth Street Ottawa ON	WNW/186.8	-7.28	87
31	GEN	GVT. OF CAN. - NATURAL RESOURCES CANADA	615 BOOTH STREET OTTAWA ON	WNW/186.8	-7.28	87
31	GEN	NATURAL RESOURCES CANADA	615 BOOTH STREET OTTAWA ON	WNW/186.8	-7.28	88
31	GEN	GVT. OF CAN. - NATURAL RESOURCES CANADA	615 BOOTH STREET OTTAWA ON K1A 0E9	WNW/186.8	-7.28	89
31	GEN	GVT. OF CAN. - NATURAL RESOURCES CANADA	615 BOOTH STREET OTTAWA ON	WNW/186.8	-7.28	89
31	GEN	GVT. OF CAN. - NATURAL RESOURCES CANADA	615 BOOTH STREET OTTAWA ON	WNW/186.8	-7.28	90
31	GEN	GVT. OF CAN. - NATURAL RESOURCES CANADA	615 BOOTH STREET OTTAWA ON	WNW/186.8	-7.28	91
31	GEN	GVT. OF CANADA - PUBLIC WORKS	CANADIAN HYDROGRAPHIC SERV., 615 BOOTH C/O 140 PROMENADE DU PORTAGE, PHASE 4 OTTAWA ON K1A 0M3	WNW/186.8	-7.28	92
31	GEN	GVT. OF CAN. - SEE & USE ON0269504	SURVEYS & MAPPING 615 BOOTH STREET OTTAWA ON K1A 0E9	WNW/186.8	-7.28	92
31	GEN	GVT. OF CAN. - NATURAL RESOURCES CANADA	615 BOOTH STREET GEOMATICS CANADA OTTAWA ON K1A 0E6	WNW/186.8	-7.28	92
31	GEN	PUBLIC WORKS CANADA	615 BOOTH STREET EMR-SURVEYS AND MAPPING OTTAWA ON K1A 0M3	WNW/186.8	-7.28	93
31	GEN	GVT. OF CAN.-SUPPLY AND SERVICES	COMMUNICATIONS SERVICES 615 BOOTH ST. ROOM G-10 OTTAWA ON K1A 0S7	WNW/186.8	-7.28	93
31	GEN	GVT. OF CAN. - NATURAL RESOURCES CANADA	615 BOOTH STREET OTTAWA ON K1A 0E9	WNW/186.8	-7.28	94
31	GEN	GVT. OF CAN. - ENERGY MINES & RES.	SURVEYS & MAPPING 615 BOOTH STREET OTTAWA ON K1A 0E9	WNW/186.8	-7.28	94
31	GEN	NATURAL RESOURCES CANADA	615 BOOTH STREET OTTAWA ON	WNW/186.8	-7.28	95
31	GEN	Stantec Consulting Ltd.	615 BOOTH STREET OTTAWA ON	WNW/186.8	-7.28	96
31	GEN	NATURAL RESOURCES CANADA	615 BOOTH STREET GEOMATICS CANADA OTTAWA ON K1A 0E6	WNW/186.8	-7.28	96

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
31	GEN	BROOKFIELD JOHNSON CONTROLS	615 Booth Street Ottawa ON	WNW/186.8	-7.28	96
31	GEN	MAPPING AND CHARTING ESTABLISHMENT	615 BOOTH STREET OTTAWA ON K0A 1K0	WNW/186.8	-7.28	97
31	GEN	NATURAL RESOURCES CANADA 18-167	GEOMATICS CANADA 615 BOOTH STREET OTTAWA ON	WNW/186.8	-7.28	97
31	GEN	PUBLIC WORKS CANADA	CANADIAN HYDROGRAPHIC SERVICE 615 BOOTH STREET OTTAWA ON K1A 0E6	WNW/186.8	-7.28	98
31	GEN	GVT. OF CAN.-SUPPLY AND SERVICES 17-385	COMMUNICATIONS SERVICES 615 BOOTH ST. ROOM G-10 OTTAWA ON K1A 0S7	WNW/186.8	-7.28	98
31	GEN	NATIONAL DEFENSE	MAPPING & CHARTING ESTABLISMENT 615 BOOTH STREET OTTAWA ON K2P 0G2	WNW/186.8	-7.28	99
31	GEN	GVT. OF CANADA - PUBLIC WORKS 17-259	CDN. HYDROGRAPHIC SERV. 615 BOOTH ST. C/O 140 PROMENADE DU PORTAGE, PHASE 4 OTTAWA ON K1A 0M3	WNW/186.8	-7.28	100
31	GEN	GVT OF CAN-HEALTH&WELFARE CAN.MED.16-295	SER.BR.,HEALTH UNIT#7, RM. 136 601 BOOTH ST. (EMR), C/O 301 ELGIN ST OTTAWA ON K1A 0L3	WNW/186.8	-7.28	100
31	GEN	Stantec Consulting Ltd.	615 BOOTH STREET OTTAWA ON	WNW/186.8	-7.28	100
31	GEN	MAPPING A(SEE & USE ON2487206)MENT	615 BOOTH STREET OTTAWA ON K0A 1K0	WNW/186.8	-7.28	101
31	GEN	PUBLIC WORKS CANADA	615 BOOTH STREET CANADIAN HYDROGRAPHIC SERVICE OTTAWA ON K1A 0E6	WNW/186.8	-7.28	101
31	GEN	GVT. OF CAN. - ENERGY MINES & RES.	SVY, MAPPING & R.S., 615 BOOTH ST. C/O 140 PROMENADE DU PORTAGE IV OTTAWA ON K1A 0M3	WNW/186.8	-7.28	101
31	GEN	NATURAL RESOURCES CANADA	615 BOOTH STREET OTTAWA ON	WNW/186.8	-7.28	102
31	GEN	GVT. OF CAN.-(OUT OF BUSINESS)	COMMUNICATIONS SERVICES 615 BOOTH ST. ROOM G-10 OTTAWA ON K1A 0S7	WNW/186.8	-7.28	102
31	GEN	GVT. OF CANADA - PUBLIC WORKS	CDN. HYDROGRAPHIC SERV. 615 BOOTH ST. C/O 140 PROMENADE DU PORTAGE, PHASE 4 OTTAWA ON K1A 0M3	WNW/186.8	-7.28	103
31	GEN	NATURAL RESOURCES CANADA	615 BOOTH STREET OTTAWA ON	WNW/186.8	-7.28	103
31	NPCB	ENERGY MINES & RESOURCES	615 BOOTH ST. OTTAWA ON	WNW/186.8	-7.28	10
31	SCT	Canadian Hydro Graphic Service	615 Booth St Floor 3 Room 311 Ottawa ON K1A 0E6	WNW/186.8	-7.28	104
31	SPL	National Research Council of Canada; SNC Lavalin Engineers and Constructors	615 Booth Street Ottawa ON K1A 0E9	WNW/186.8	-7.28	104
31	SPL	SNC Lavalin Engineers and Constructors	615 Booth St. Ottawa ON	WNW/186.8	-7.28	105
31	SPL	SNC-Lavalin ProFac Facilities Management	615 Booth Street Ottawa ON	WNW/186.8	-7.28	105
31	SPL	SNC-Lavalin Profac Inc.	615 Booth St. Ottawa ON	WNW/186.8	-7.28	105
31	SPL	Natural Resources Canada<UNOFFICIAL>	Mechanical Room, 615 Booth St Ottawa ON	WNW/186.8	-7.28	106

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
31	WWIS		OTTAWA ON	WNW/186.8	-7.28	106
32	FCS		Ottawa ON	W/189.0	-8.96	108
33	EHS		788 Bronson Ottawa ON K1S 4G4	ESE/192.7	0.07	108
34	BORE		ON	NE/195.8	1.90	108
35	BORE		ON	NNE/202.5	1.31	109
36	EHS		Dow's Lake Rd. & Kippewa Drive Ottawa ON	SSE/206.7	-5.64	110
37	GEN	SNC Lavalin	601 Booth St. Ottawa ON	WNW/213.7	-6.68	110
37	GEN	SNC Lavalin	601 Booth St. Ottawa ON	WNW/213.7	-6.68	110
37	GEN	GVT. OF CAN. - NATURAL RESOURCES CANADA	Room 721 601 Booth Street OTTAWA ON	WNW/213.7	-6.68	110
37	GEN	GVT. OF CAN. - NATURAL RESOURCES CANADA	Room 721 601 Booth Street OTTAWA ON K1A 0E8	WNW/213.7	-6.68	111
37	GEN	BROOKFIELD GLOBAL INTERGRATED SOLUTIONS	601 Booth St. Ottawa ON K1A0E8	WNW/213.7	-6.68	112
37	SPL		601 Booth St. Ottawa ON	WNW/213.7	-6.68	113
38	EHS		Carling Avenue from O-Train to Bronson Ave. Ottawa ON	WSW/221.2	-8.95	113
39	SPL	Enbridge Gas Distribution Inc.	680 Bronson Ave Ottawa ON	NNE/226.6	0.37	113
40	CA	OTTAWA CITY, DESIGN & CONSTRUCTION DIV.	SECOND AVE./BRONSON AVE., CSO OTTAWA ON	ESE/231.2	-1.04	11
40	CA	R.M. OF OTTAWA-CARLETON	SECOND AVE/BRONSON AVE/BANK ST OTTAWA ON	ESE/231.2	-1.04	11
41	BORE		ON	N/233.7	1.20	114
42	SPL	FIRST FUEL	812 BRONSON TANK TRUCK (CARGO) OTTAWA CITY ON K1S 4G4	ESE/236.8	-0.81	11
43	SPL	Hydro-Ottawa	272 Powell Street Ottawa ON K1S 2A5	NE/241.0	0.31	115

Executive Summary: Summary By Data Source

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2014 has found that there are 4 BORE site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	ON	133.5	17
	ON	195.8	34
	ON	202.5	35
	ON	233.7	41

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.

Site	Address	Distance (m)	Map Key
Carleton Condominium Corporation No. 472	550 Cambridge St S Ottawa ON	43.3	1
Canci Homes Corporation Inc.	385 Bell Street Ottawa ON	80.4	7
R.M. OF OTTAWA-CARLETON	CLEMOW AVE/BRONSON AVE/BANK ST OTTAWA CITY ON	173.2	26
PUBLIC WORKS & GOVT. SERVICES CANADA	615 BOOTH STREET OTTAWA CITY ON	186.8	31
OTTAWA CITY, DESIGN & CONSTRUCTION DIV.	SECOND AVE./BRONSON AVE., CSO OTTAWA ON	231.2	40
R.M. OF OTTAWA-CARLETON	SECOND AVE/BRONSON AVE/BANK ST OTTAWA ON	231.2	40

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Aug 2016 has found that there are 15 EHS site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	280 Carling Avenue Ottawa ON K1S 2E2	71.2	3

Site	Address	Distance (m)	Map Key
	265 Carling Ave Ottawa ON K1S 2E1	108.3	12
	265 Carling Avenue Ottawa ON K1S 2E1	108.3	12
	515 Cambridge St Ottawa ON K1S 4H9	113.1	14
	515 Cambridge Street Ottawa ON K1S 4H9	113.1	14
	774 Bronson Ave Ottawa ON K1S4G4	123.0	15
	256 Carling Avenue Ottawa ON K1S 2E1	136.9	18
	770 Bronson Ave Ottawa ON K1S4G4	136.9	19
	770 Bronson Avenue Ottawa ON K1S 4G4	139.1	20
	786 Bronson Ave Ottawa ON K1S4G4	156.0	21
	345 Lebreton Street Ottawa ON K1A 0E9	161.0	24
	482 Cambridge St S Ottawa ON K1S4H7	174.9	27
	788 Bronson Ottawa ON K1S 4G4	192.7	33
	Dow's Lake Rd. & Kippewa Drive Ottawa ON	206.7	36
	Carling Avenue from O-Train to Bronson Ave. Ottawa ON	221.2	38

EXP - List of TSSA Expired Facilities

A search of the EXP database, dated Aug 31, 2016 has found that there are 10 EXP site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
EMILIO LINDIA ENTERPRISES LTD	770 BRONSON AV OTTAWA ON K1S 4G4	136.9	19
EMILIO LINDIA ENTERPRISES LTD	770 BRONSON AV OTTAWA ON K1S 4G4	136.9	19
EMILIO LINDIA ENTERPRISES LTD	770 BRONSON AV OTTAWA ON K1S 4G4	136.9	19
EMILIO LINDIA ENTERPRISES LTD	770 BRONSON AV OTTAWA ON	136.9	19
EMILIO LINDIA ENTERPRISES LTD	770 BRONSON AV OTTAWA ON K1S 4G4	136.9	19

Site	Address	Distance (m)	Map Key
EMILIO LINDIA ENTERPRISES LTD	770 BRONSON AV OTTAWA ON K1S 4G4	136.9	19
EMILIO LINDIA ENTERPRISES LTD	770 BRONSON AV OTTAWA ON K1S 4G4	136.9	19
EMILIO LINDIA ENTERPRISES LTD	770 BRONSON AV OTTAWA ON K1S 4G4	136.9	19
EMILIO LINDIA ENTERPRISES LTD	770 BRONSON AV OTTAWA ON K1S 4G4	136.9	19
EMILIO LINDIA ENTERPRISES LTD	770 BRONSON AV OTTAWA ON K1S 4G4	136.9	19

FCS - Contaminated Sites on Federal Land

A search of the FCS database, dated June 2000-Oct 2015 has found that there are 2 FCS site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	Ottawa ON	71.4	4
	Ottawa ON	189.0	32

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Sep 2016 has found that there are 87 GEN site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
265 Carling Avenue Ltd.	265 Carling Ave Ottawa ON K1S 2E1	83.2	8
Associated Endodontists	265 Carling Ave, unit 620 Ottawa ON K1S2E1	83.2	8
265 Carling Avenue Ltd.	265 Carling Ave Ottawa ON	83.2	8
Associated Endodontists	265 Carling Ave, unit 620 Ottawa ON	83.2	8
GVT. OF (OUT OF BUSINESS)ES & RESOURCES	401 LEBRETON STREET OTTAWA ON K1A 0E8	103.4	10
GVT. OF CAN. - ENERGY MINES & RESOURCES	401 LEBRETON STREET OTTAWA ON K1A 0E8	103.4	10
GVT. OF CAN. - ENERGY MINES & RES.	TERRAIN SCIENCES GEOLOGICAL SURVEY 401 LEBRETON ST. OTTAWA ON K1A 0E8	103.4	10
GVT. OF CAN. - ENERGY MINES & RES.18-270	TERRAIN SCIENCES GEOLOGICAL SURVEY 401 LEBRETON ST. OTTAWA ON K1A 0E8	103.4	10
Quantum Murray LP	401 Lebreton Street Ottawa ON	103.4	10

Site	Address	Distance (m)	Map Key
BLACK & MCDONALD LIMITED	557 CAMBRIDGE STREET SOUTH OTTAWA ON K1S 4J4	106.5	11
BLACK & MCDONALD LIMITED 05-619	557 CAMBRIDGE STREET SOUTH OTTAWA ON K1S 4J4	106.5	11
Taggart Corporation	265 Carling Ave Ottawa ON K1S 2E1	108.3	12
265 Carling Avenue Ltd.	265 Carling Ave Ottawa ON K1S 2E1	108.3	12
265 Carling Avenue Ltd.	265 Carling Ave Ottawa ON K1S 2E1	108.3	12
265 Carling Avenue Ltd.	265 Carling Ave Ottawa ON K1S 2E1	108.3	12
265 Carling Avenue Ltd.	265 Carling Ave Ottawa ON K1S 2E1	108.3	12
Taggart Corporation	265 Carling Ave Ottawa ON K1S 2E1	108.3	12
OTTAWA-CARLETON DISTRICT SCHOOL BOARD	BORDEN HIGH SCHOOL 515 CAMBRIDGE STREET SOUTH OTTAWA ON K1S 4H9	113.1	14
OTTAWA BOARD OF EDUCATION 29-129	BORDEN HIGH SCHOOL 515 CAMBRIDGE ST. S. C/O 330 GILMOURST OTTAWA ON K2P 0P9	113.1	14
OTTAWA BOARD OF EDUCATION	515 CAMBRIDGE STREET SOUTH BORDEN HIGH SCHOOL OTTAWA ON K1S 4H9	113.1	14
OTTAWA BOARD OF EDUCATION	BORDEN HIGH SCHOOL 515 CAMBRIDGE ST. S. C/O 330 GILMOURST OTTAWA ON K2P 0P9	113.1	14
DEPT. OF NATIONAL DEFENSE	MAPPING & CHARTING ESTABLISHMENT 360 LEBRETON STREET OTTAWA ON K1A 0E9	128.5	16
DEPT. OF NATIONAL DEFENSE	MAPPING & CHARTING ESTABLISHMENT 360 LEBRETON STREET OTTAWA ON	128.5	16
GVT OF CAN - NATIONAL DEFENSE	MAPPING & CHARTING ESTABLISHMENT 360 LEBRETON STREET OTTAWA ON K1A 0E9	128.5	16
DEPT. OF NATIONAL DEFENSE	MAPPING & CHARTING ESTABLISHMENT 360 LEBRETON STREET OTTAWA ON	128.5	16
DEPT. OF NATIONAL DEFENSE	MAPPING & CHARTING ESTABLISHMENT 360 LEBRETON STREET OTTAWA ON K1A 0E9	128.5	16
DEPT. OF NATIONAL DEFENSE	MAPPING & CHARTING ESTABLISHMENT 360 LEBRETON STREET OTTAWA ON	128.5	16
DEPT. OF NATIONAL DEFENSE	MAPPING & CHARTING ESTABLISHMENT 360 LEBRETON STREET OTTAWA ON K1A 0E9	128.5	16
DEPT. OF NATIONAL DEFENSE	MAPPING & CHARTING ESTABLISHMENT 360 LEBRETON STREET OTTAWA ON	128.5	16
GVT OF CAN - NATIONAL DEFENSE 17-505	MAPPING & CHARTING ESTABLISHMENT 360 LEBRETON STREET OTTAWA ON K1A 0E9	128.5	16
Goodex Equipment Rental Ltd	515 Cambridge St. Ottawa ON	160.5	23
HYDRO OTTAWA LIMITED	247 GLEBE OTTAWA ON K1S 2C8	182.8	29

Site	Address	Distance (m)	Map Key
OTTAWA HYDRO	247 GLEBE AVENUE OTTAWA ON K1S 2C8	182.8	29
Stantec Consulting Ltd.	615 BOOTH STREET OTTAWA ON	186.8	31
NATURAL RESOURCES CANADA	615 BOOTH STREET GEOMATICS CANADA OTTAWA ON K1A 0E6	186.8	31
BROOKFIELD JOHNSON CONTROLS	615 Booth Street Ottawa ON	186.8	31
MAPPING AND CHARTING ESTABLISHMENT	615 BOOTH STREET OTTAWA ON K0A 1K0	186.8	31
NATURAL RESOURCES CANADA 18-167	GEOMATICS CANADA 615 BOOTH STREET OTTAWA ON	186.8	31
PUBLIC WORKS CANADA	CANADIAN HYDROGRAPHIC SERVICE 615 BOOTH STREET OTTAWA ON K1A 0E6	186.8	31
GVT. OF CAN.-SUPPLY AND SERVICES 17-385	COMMUNICATIONS SERVICES 615 BOOTH ST. ROOM G-10 OTTAWA ON K1A 0S7	186.8	31
NATIONAL DEFENSE	MAPPING & CHARTING ESTABLISMENT 615 BOOTH STREET OTTAWA ON K2P 0G2	186.8	31
GVT. OF CANADA - PUBLIC WORKS 17-259	CDN. HYDROGRAPHIC SERV. 615 BOOTH ST. C/O 140 PROMENADE DU PORTAGE, PHASE 4 OTTAWA ON K1A 0M3	186.8	31
GVT OF CAN-HEALTH&WELFARE CAN.MED.16-295	SER.BR.,HEALTH UNIT#7, RM. 136 601 BOOTH ST. (EMR), C/O 301 ELGIN ST OTTAWA ON K1A 0L3	186.8	31
Stantec Consulting Ltd.	615 BOOTH STREET OTTAWA ON	186.8	31
MAPPING A(SEE & USE ON2487206)MENT	615 BOOTH STREET OTTAWA ON K0A 1K0	186.8	31
PUBLIC WORKS CANADA	615 BOOTH STREET CANADIAN HYDROGRAPHIC SERVICE OTTAWA ON K1A 0E6	186.8	31
GVT. OF CAN. - ENERGY MINES & RES.	SVY, MAPPING & R.S., 615 BOOTH ST. C/O 140 PROMENADE DU PORTAGE IV OTTAWA ON K1A 0M3	186.8	31
NATURAL RESOURCES CANADA	615 BOOTH STREET OTTAWA ON	186.8	31
GVT. OF CAN.-(OUT OF BUSINESS)	COMMUNICATIONS SERVICES 615 BOOTH ST. ROOM G-10 OTTAWA ON K1A 0S7	186.8	31
GVT. OF CANADA - PUBLIC WORKS	CDN. HYDROGRAPHIC SERV. 615 BOOTH ST. C/O 140 PROMENADE DU PORTAGE, PHASE 4 OTTAWA ON K1A 0M3	186.8	31
NATURAL RESOURCES CANADA	615 BOOTH STREET OTTAWA ON	186.8	31
GVT. OF CAN. - ENERGY MINES & RES.18-151	GEOLOGICAL SURVEY OF CANADA 601 BOOTH STREET OTTAWA ON K1A 0E8	186.8	31
GVT. OF CAN. - NATURAL RESOURCES CANADA	Room 721 601 Booth Street OTTAWA ON	186.8	31
BROOKFIELD JOHNSON CONTROLS	601 Booth St. Ottawa ON	186.8	31

Site	Address	Distance (m)	Map Key
GVT. OF CAN. - ENERGY MINES & RES.	GEOLOGICAL SURVEY OF CANADA 601 BOOTH STREET OTTAWA ON K1A 0E8	186.8	31
GVT. OF CAN. - NATURAL RESOURCES CANADA	Room 721 601 Booth Street OTTAWA ON K1A 0E8	186.8	31
GVT. OF CAN.-ENERGY, MINES & RES.	GEOLOGICAL COMMISSION OF CANADA 601 BOOTH ST. OTTAWA ON K1A 0E4	186.8	31
GVT. OF CAN. - NATURAL RESOURCES CANADA	GEOLOGICAL SURVEY OF CANADA 601 BOOTH STREET OTTAWA ON K1A 0E8	186.8	31
GVT. OF CAN. - NATURAL RESOURCES CANADA	Room 721 601 Booth Street OTTAWA ON	186.8	31
GVT. OF CAN.-ENERGY, MINES & RES. 18-249	GEOLOGICAL COMMISSION OF CANADA 601 BOOTH ST. OTTAWA ON K1A 0E4	186.8	31
GVT. OF CAN. - ENERGY MINES & RES.	GEOLOGICAL SURVEY OF CANADA 601 BOOTH ST. OTTAWA ON K1A 0E8	186.8	31
GVT. OF CAN. - NATURAL RESOURCES CANADA	Room 721 601 Booth Street OTTAWA ON	186.8	31
HEALTH AND WELFARE CANADA	601 BOOTH STREET (EMR) HEALTH UNIT #7, RM 136 OTTAWA ON K1A 0E4	186.8	31
GVT. OF CAN. - NATURAL RESOURCES CANADA	Room 721 601 Booth Street OTTAWA ON	186.8	31
HEALTH AND WELFARE CANADA	HEALTH UNIT#7, RM. 136 601 BOOTH ST. (EMR) OTTAWA ON K1A 0E4	186.8	31
Brookfield Global Integrated Solutions	615 Booth Street Ottawa ON K1A0E9	186.8	31
SNC Lavalin	615 Booth Street Ottawa ON	186.8	31
SNC Lavalin	615 Booth Street Ottawa ON	186.8	31
GVT. OF CAN. - NATURAL RESOURCES CANADA	615 BOOTH STREET OTTAWA ON	186.8	31
NATURAL RESOURCES CANADA	615 BOOTH STREET OTTAWA ON	186.8	31
GVT. OF CAN. - NATURAL RESOURCES CANADA	615 BOOTH STREET OTTAWA ON K1A 0E9	186.8	31
GVT. OF CAN. - NATURAL RESOURCES CANADA	615 BOOTH STREET OTTAWA ON	186.8	31
GVT. OF CAN. - NATURAL RESOURCES CANADA	615 BOOTH STREET OTTAWA ON	186.8	31
GVT. OF CAN. - NATURAL RESOURCES CANADA	615 BOOTH STREET OTTAWA ON	186.8	31
GVT. OF CANADA - PUBLIC WORKS	CANADIAN HYDROGRAPHIC SERV., 615 BOOTH C/O 140 PROMENADE DU PORTAGE, PHASE 4 OTTAWA ON K1A 0M3	186.8	31
GVT. OF CAN. - SEE & USE ON0269504	SURVEYS & MAPPING 615 BOOTH STREET OTTAWA ON K1A 0E9	186.8	31
GVT. OF CAN. - NATURAL RESOURCES CANADA	615 BOOTH STREET GEOMATICS CANADA OTTAWA ON K1A 0E6	186.8	31

Site	Address	Distance (m)	Map Key
PUBLIC WORKS CANADA	615 BOOTH STREET EMR-SURVEYS AND MAPPING OTTAWA ON K1A 0M3	186.8	31
GVT. OF CAN.-SUPPLY AND SERVICES	COMMUNICATIONS SERVICES 615 BOOTH ST. ROOM G-10 OTTAWA ON K1A 0S7	186.8	31
GVT. OF CAN. - NATURAL RESOURCES CANADA	615 BOOTH STREET OTTAWA ON K1A 0E9	186.8	31
GVT. OF CAN. - ENERGY MINES & RES.	SURVEYS & MAPPING 615 BOOTH STREET OTTAWA ON K1A 0E9	186.8	31
NATURAL RESOURCES CANADA	615 BOOTH STREET OTTAWA ON	186.8	31
SNC Lavalin	601 Booth St. Ottawa ON	213.7	37
SNC Lavalin	601 Booth St. Ottawa ON	213.7	37
GVT. OF CAN. - NATURAL RESOURCES CANADA	Room 721 601 Booth Street OTTAWA ON	213.7	37
GVT. OF CAN. - NATURAL RESOURCES CANADA	Room 721 601 Booth Street OTTAWA ON K1A 0E8	213.7	37
BROOKFIELD GLOBAL INTERGRATED SOLUTIONS	601 Booth St. Ottawa ON K1A0E8	213.7	37

NPCB - National PCB Inventory

A search of the NPCB database, dated 1988-2008* has found that there are 1 NPCB site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
ENERGY MINES & RESOURCES	615 BOOTH ST. OTTAWA ON	186.8	31

OPCB - Inventory of PCB Storage Sites

A search of the OPCB database, dated 1987-Oct 2004; 2012-Dec 2013 has found that there are 1 OPCB site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
ENERGY MINES AND RESOURCES	TERRAIN SCIENCES DIVISION 401 LIBRETON ST. OTTAWA ON	103.4	10

PES - Pesticide Register

A search of the PES database, dated 1988-Jun 2013 has found that there are 1 PES site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
TERRAPRO CORPORATION	401-A LEBRETON STREET SOUTH OTTAWA ON K1S 4L5	103.4	10

PINC - TSSA Pipeline Incidents

A search of the PINC database, dated Aug 31, 2016 has found that there are 1 PINC site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	7 Frederick Place,Ottawa ON K1S 3G1	69.8	2

PRT - Private and Retail Fuel Storage Tanks

A search of the PRT database, dated 1989-1996* has found that there are 2 PRT site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
EMILIO LINDIA ENTERPRISES LTD	770 BRONSON AV OTTAWA ON K1S 4G4	139.1	20
EMILIO LINDIA ENTERPRISES LTD	770 BRONSON AV OTTAWA ON K1S4G4	139.1	20

SCT - Scott's Manufacturing Directory

A search of the SCT database, dated 1992-Mar 2011* has found that there are 11 SCT site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
SCAFFOLD-FAST INC.	385 BELL ST S OTTAWA ON K1S 4K3	80.1	6
Cdn Post-M.D. Education Regist	265 Carling Ave Suite 800 Ottawa ON K1S 2E1	108.3	12
Beyond 20/20 Inc.	265 Carling Ave Suite 500 Ottawa ON K1S 2E1	108.3	12
NORTAK SOFTWARE LTD	265 CARLING AVE FLOOR 7 OTTAWA ON K1S 2E1	108.3	12
Assn Faculties Medicine of Cda	265 Carling Ave Suite 800 Ottawa ON K1S 2E1	108.3	12
Nortak Software Ltd.	265 Carling Ave Floor 7 Ottawa ON K1S 2E1	108.3	12
Shaw Laboratories	794 Bronson Ave Ottawa ON K1S 4G4	184.4	30
K & R Dental Laboratories Ltd.	794 Bronson Ave Ottawa ON K1S 4G4	184.4	30

Site	Address	Distance (m)	Map Key
K & R Dental Laboratories Ltd	794 Bronson Ave Ottawa ON K1S 4G4	184.4	30
K&R Dental Laboratories Ltd.	794 Bronson Ave Ottawa ON K1S 4G4	184.4	30
Canadian Hydro Graphic Service	615 Booth St Floor 3 Room 311 Ottawa ON K1A 0E6	186.8	31

SPL - Ontario Spills

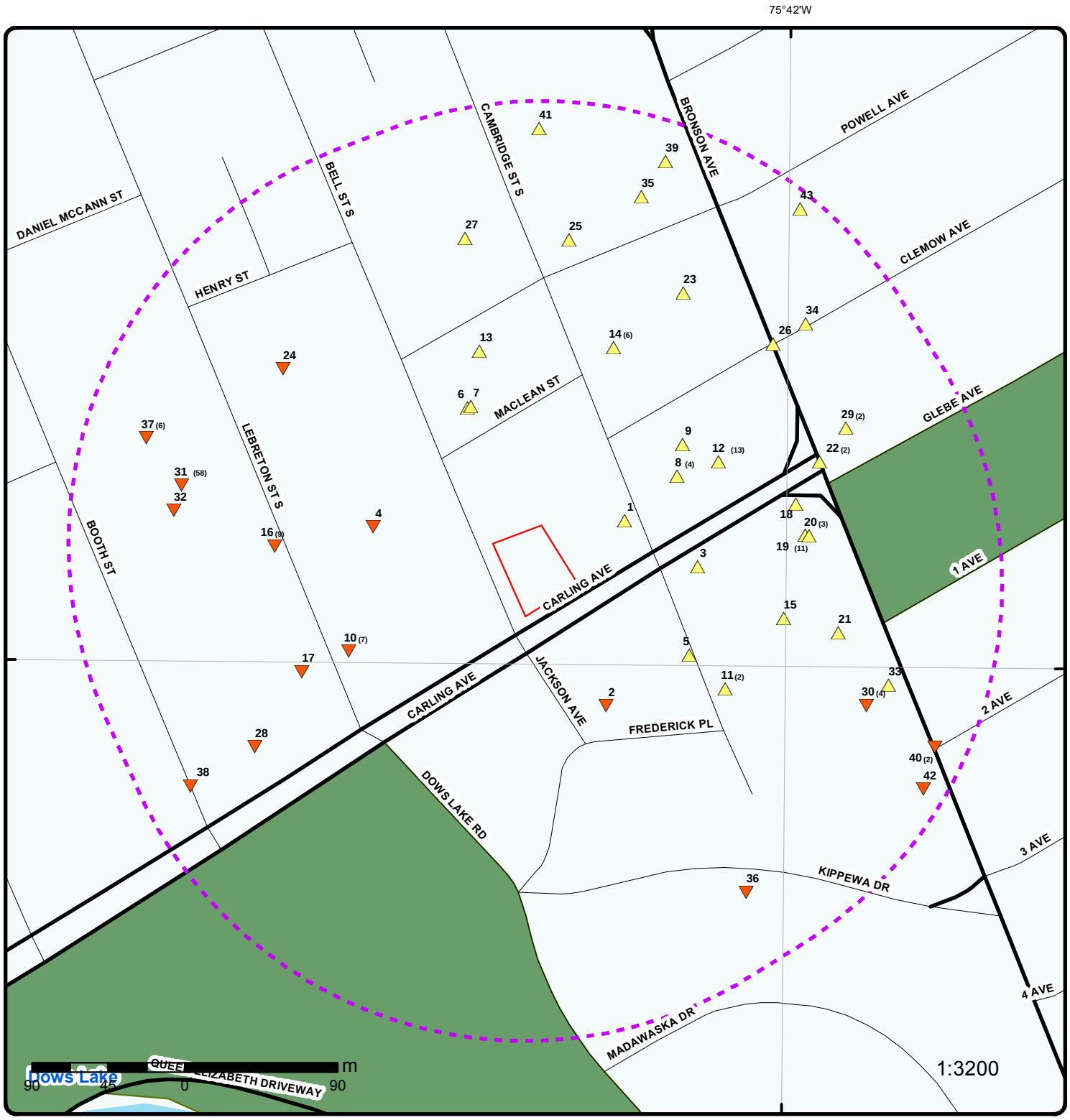
A search of the SPL database, dated 1988-Jan 2016 has found that there are 13 SPL site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
PUC	POLE TRANSFORMER OPPOSITE 326 POWELL STREET. OTTAWA CITY ON K1S 2A8	108.8	13
	Bronson Ave and Carling Ave Ottawa ON	159.6	22
OTTAWA HYDRO	CORNER OF CARLING & BRONSON OTTAWA TRANSFORMER OTTAWA CITY ON	159.6	22
	315 Powell Avenue<UNOFFICIAL> Ottawa ON	168.9	25
SNC-Lavalin ProFac Facilities Management	615 Booth Street Ottawa ON	186.8	31
National Research Council of Canada; SNC Lavalin Engineers and Constructors	615 Booth Street Ottawa ON K1A 0E9	186.8	31
Natural Resources Canada<UNOFFICIAL>	Mechanical Room, 615 Booth St Ottawa ON	186.8	31
SNC Lavalin Engineers and Constructors	615 Booth St. Ottawa ON	186.8	31
SNC-Lavalin Profac Inc.	615 Booth St. Ottawa ON	186.8	31
	601 Booth St. Ottawa ON	213.7	37
Enbridge Gas Distribution Inc.	680 Bronson Ave Ottawa ON	226.6	39
FIRST FUEL	812 BRONSON TANK TRUCK (CARGO) OTTAWA CITY ON K1S 4G4	236.8	42
Hydro-Ottawa	272 Powell Street Ottawa ON K1S 2A5	241.0	43

WWIS - Water Well Information System

A search of the WWIS database, dated Jun 30, 2016 has found that there are 4 WWIS site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	ON	78.0	5
	Ottawa ON	95.7	9
	Ottawa ON	176.9	28
	OTTAWA ON	186.8	31



Map : 0.25 Kilometer Radius

Address: 289 Carling Ave, Ottawa, ON, K1S2E4
Order No: 20161003159

ERIS
ENVIRONMENTAL RISK INFORMATION SERVICES

- Project Property
- Buffer Outline
- Eris Sites with Higher Elevation
- Eris Sites with Same Elevation
- Eris Sites with Lower Elevation
- Eris Sites with Unknown Elevation
- Expressway
- Principal Highway
- Secondary Highway
- Major Road
- Local road
- Trail
- Proposed Road
- Ferry Route/Ice Road
- Industrial and Resource - Regions
- Main Line
- Sidetrack
- Transit Line
- Abandoned Line
- National Park
- Provincial or Territorial Park
- Other Park
- Golf Course or Driving Range
- Park or Sports Field
- Other Recreation Area

75°42'W

45°24'N

45°24'N

Aerial

Order No: 20161003159

Address: 289 Carling Ave, Ottawa, ON, K1S2E4

ENVIRONMENTAL RISK INFORMATION SERVICES

Source: ESRI World Imagery

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
1	1 of 1	ENE/43.3	78.1	Carleton Condominium Corporation No. 472 550 Cambridge St S Ottawa ON	CA

Certificate #: 9353-7TZK46
Application Year: 2009
Issue Date: 7/17/2009
Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
2	1 of 1	SSE/69.8	71.7	7 Frederick Place,Ottawa ON K1S 3G1	PINC

Incident ID: 2692924
Tank Status:
Attribute Category:
Task Number:
Type: FS-Pipeline Incident
Incident Number: 536484
Status Code: Pipeline Damage Reason Est
Summary: 7 Frederick Place,Ottawa - 1" Pipeline Hit
Spills Action Centre:
Reported By: Stiles, Jeff - Enbridge
Affiliation: Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)
Method Details: utility damage
Fuel Category: Heating Fuel
Fuel Occurrence Type:
Date of Occurrence:
Occurrence Start Date:
Health Impact:
Occurrence Desc:
Environment Impact:
Property Damage:
Service Interupt:
Fuel Type:
Enforce Policy:
Operation Type:
Damage Reason:
Public Relation:
Pipeline System:
Pipeline Type:
Depth:
Pipe Material:
Regualtor Location:
PSIG:
Regulator Type:

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Notes:					

3	1 of 1	E/71.2	77.5	280 Carling Avenue Ottawa ON K1S 2E2	EHS

Postal Code:	
City:	
Address2:	
Address1:	
Provstate:	
Order No.:	20091222046
Addit. Info Ordered:	
Report Date:	12/31/2009
Report Type:	Custom Report
Search Radius (km):	0.25

4	1 of 1	WNW/71.4	69.6	Ottawa ON	FCS

Location:	
Site Name:	Former NCC Building
Departmental Id:	National Capital 08886001
Site Id:	08886001
Property No.:	8886
Municipality:	Ottawa
Census Division:	Ottawa
Federal Electoral District:	Ottawa Centre
Nearest Populated Area:	
Longitude:	-75.7031
Latitude:	45.40072
Reporting Organization:	Public Works and Government Services Canada
Reason for Involvement:	Federal Real Property
Est m³ Contaminated:	5000
Est Ha Contaminated:	
Est Tons Contaminated:	
Site Management Strategy:	Other
Highest Step Completed:	Confirmatory Sampling and Final Reporting
Action Plan:	Record of Site Condition obtained. No further action required. FY2007-08: abandonment of on-site monitoring wells.
Additional Info:	Poly-aromatic Hydrocarbons (PAH) and heavy metal contamination is located in the garage in the vicinity of the mechanics pit.

--- Details ---

Medium:	Not Available
Contaminant:	Petroleum hydrocarbons and PAH's
+	
Medium:	Not Available
Contaminant:	Metal, metalloid, and organometallic

5	1 of 1	ESE/78.0	74.9	ON	WWIS

Well ID:	7152295	**Lot:**	
Construction Date:		**Concession:**	
Primary Water Use:	Monitoring	**Concession Name:**	
Sec. Water Use:		**Easting NAD83:**	
Final Well Status:	Abandoned-Other	**Northing NAD83:**	
Specific Capacity:		**Zone:**	
Municipality:	OTTAWA CITY (NEPEAN)	**UTM Reliability:**	
County:	OTTAWA-CARLETON		

Bore Hole Information

--	--
Bore Hole ID:	1003611067
DP2BR:	
Code OB:	
Code OB Description:	
Open Hole:	
Date Completed:	
Remarks:	
Zone:	18
East 83:	45005
North 83:	5027563
UTMRC:	9
UTMRC Description:	unknown UTM
Location Method:	wwr
Org CS:	UTM83
Elevation:	
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	
Improvement Location Source:	
Improvement Location Method:	
Supplier Comment:	
Spatial Status:	
--	--
Annular Space/Abandonment Sealing Record	
--	--
Plug ID:	1003611071
Layer:	
Plug From:	
Plug To:	
Plug Depth UOM:	
--	--
Plug ID:	1003611072
Layer:	
Plug From:	
Plug To:	
Plug Depth UOM:	
--	--
Method of Construction & Well Use	
--	--
Method Construction ID:	1003611070
Method Construction Code:	
Method Construction:	
Other Method Construction:	AUGER
--	--
Pipe Information	
--	--
Pipe ID:	1003611073
Casing Number:	0
Comment:	
Alt Name:	
--	--
Construction Record - Casing	
--	--
Casing ID:	1003611075
Layer:	
Open Hole or Material:	PLASTIC
Depth From:	
Depth To:	4
Casing Diameter:	
Casing Diameter UOM:	
Casing Depth UOM:	m
--	--

--	--
Construction Record - Screen	
--	--
Screen ID:	1003611074
Layer:	
Slot:	
Screen Top Depth:	4
Screen End Depth:	4
Screen Material:	
Screen Depth UOM:	m
Screen Diameter UOM:	
Screen Diameter:	
--	--
Well Yield Testing	
--	--
Pump Test ID:	1003611076
Pump Set At:	
Static Level:	.32
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	
Rate UOM:	
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	
--	--
Hole Diameter	
--	--
Hole ID:	1003611069
Diameter:	22.2
Depth From:	
Depth To:	4
Hole Depth UOM:	m
Hole Diameter UOM:	cm
--	--
--	--
Bore Hole ID:	1003611087
DP2BR:	
Code OB:	
Code OB Description:	
Open Hole:	
Date Completed:	
Remarks:	
Zone:	18
East 83:	445159
North 83:	5027632
UTMRC:	4
UTMRC Description:	margin of error : 30 m - 100 m
Location Method:	wwr
Org CS:	UTM83
Elevation:	
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	
Improvement Location Source:	
Improvement Location Method:	
Supplier Comment:	
Spatial Status:	
--	--

Annular Space/Abandonment Sealing Record
-- --
Plug ID: 1003611092
Layer:
Plug From:
Plug To:
Plug Depth UOM:
-- --
Plug ID: 1003611091
Layer:
Plug From:
Plug To:
Plug Depth UOM:
-- --
Method of Construction & Well Use
-- --
Method Construction ID: 1003611090
Method Construction Code:
Method Construction:
Other Method Construction: AUGER
-- --
Pipe Information
-- --
Pipe ID: 1003611093
Casing Number: 0
Comment:
Alt Name:
-- --
Construction Record - Casing
-- --
Casing ID: 1003611095
Layer:
Open Hole or Material: PLASTIC
Depth From:
Depth To: 4
Casing Diameter:
Casing Diameter UOM:
Casing Depth UOM: m
-- --
-- --
Construction Record - Screen
-- --
Screen ID: 1003611094
Layer:
Slot:
Screen Top Depth: 4
Screen End Depth: 4
Screen Material:
Screen Depth UOM: m
Screen Diameter UOM:
Screen Diameter:
-- --
Well Yield Testing
-- --
Pump Test ID: 1003611096
Pump Set At:
Static Level: 1
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM:
Rate UOM:

Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	
--	--
Hole Diameter	
--	--
Hole ID:	1003611089
Diameter:	22.2
Depth From:	
Depth To:	4
Hole Depth UOM:	m
Hole Diameter UOM:	cm
--	--
--	--
Bore Hole ID:	1003611077
DP2BR:	
Code OB:	
Code OB Description:	
Open Hole:	
Date Completed:	
Remarks:	
Zone:	18
East 83:	445194
North 83:	5027576
UTMRC:	4
UTMRC Description:	margin of error : 30 m - 100 m
Location Method:	wwr
Org CS:	UTM83
Elevation:	
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	
Improvement Location Source:	
Improvement Location Method:	
Supplier Comment:	
Spatial Status:	
--	--
Annular Space/Abandonment Sealing Record	
--	--
Plug ID:	1003611081
Layer:	
Plug From:	
Plug To:	
Plug Depth UOM:	
--	--
Plug ID:	1003611082
Layer:	
Plug From:	
Plug To:	
Plug Depth UOM:	
--	--
Method of Construction & Well Use	
--	--
Method Construction ID:	1003611080
Method Construction Code:	
Method Construction:	
Other Method Construction:	AUGER
--	--
Pipe Information	
--	--

Pipe ID:	1003611083
Casing Number:	0
Comment:	
Alt Name:	
--	--
Construction Record - Casing	
--	--
Casing ID:	1003611085
Layer:	
Open Hole or Material:	PLASTIC
Depth From:	
Depth To:	4
Casing Diameter:	
Casing Diameter UOM:	
Casing Depth UOM:	m
--	--
--	--
Construction Record - Screen	
--	--
Screen ID:	1003611084
Layer:	
Slot:	
Screen Top Depth:	4
Screen End Depth:	4
Screen Material:	
Screen Depth UOM:	m
Screen Diameter UOM:	
Screen Diameter:	
--	--
Well Yield Testing	
--	--
Pump Test ID:	1003611086
Pump Set At:	
Static Level:	0
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	
Rate UOM:	
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	
--	--
Hole Diameter	
--	--
Hole ID:	1003611079
Diameter:	22.2
Depth From:	
Depth To:	4
Hole Depth UOM:	m
Hole Diameter UOM:	cm
--	--
--	--
Bore Hole ID:	1003342643
DP2BR:	
Code OB:	
Code OB Description:	
Open Hole:	
Date Completed:	
Remarks:	
Zone:	18

East 83:	445075
North 83:	5027613
UTMRC:	3
UTMRC Description:	margin of error : 10 - 30 m
Location Method:	wwr
Org CS:	UTM83
Elevation:	70.61
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	
Improvement Location Source:	
Improvement Location Method:	
Supplier Comment:	
Spatial Status:	
--	--
Annular Space/Abandonment Sealing Record	
--	--
Plug ID:	1003611098
Layer:	1
Plug From:	4
Plug To:	0
Plug Depth UOM:	m
--	--
Method of Construction & Well Use	
--	--
Method Construction ID:	1003611100
Method Construction Code:	B
Method Construction:	Other Method
Other Method Construction:	AUGER
--	--
Hole Diameter	
--	--
Hole ID:	1003611097
Diameter:	22.2
Depth From:	0
Depth To:	4
Hole Depth UOM:	m
Hole Diameter UOM:	cm
--	--
--	--

---

6 | ***1 of 1*** | ***NNW/80.1*** | ***77.7*** | ***SCAFFOLD-FAST INC.***
385 BELL ST S
OTTAWA ON K1S 4K3 | ***SCT***

Established:	1957
Plant Size (ft²):	0
Employment:	13
--- Details ---	
Description:	CONSTRUCTION & MINING (EXCEPT PETROLEUM) MACHINERY
SIC/NAICS Code:	5082
+	
Description:	INDUSTRIAL MACHINERY & EQUIPMENT
SIC/NAICS Code:	5084

---

7 | ***1 of 1*** | ***NNW/80.4*** | ***77.7*** | ***Canci Homes Corporation Inc.***
385 Bell Street
Ottawa ON | ***CA***

Certificate #:	4415-5VKLDD

Application Year: 2004
Issue Date: 1/26/2004
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
8	1 of 4	ENE/83.2	77.5	Associated Endodontists 265 Carling Ave, unit 620 Ottawa ON K1S2E1	GEN

PO Box Num:
Status: Registered
Country: Canada
Generator #: ON5430079
Approval Yrs: As of Sep 2016
SIC Code:
SIC Description:

--- Details ---
Waste Code: 312 P
Waste Description: Pathological wastes

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
8	2 of 4	ENE/83.2	77.5	265 Carling Avenue Ltd. 265 Carling Ave Ottawa ON	GEN

PO Box Num:
Status:
Country:
Generator #: ON2678739
Approval Yrs: 2013
SIC Code: 531310
SIC Description: REAL ESTATE PROPERTY MANAGERS

--- Details ---
Waste Code: 243
Waste Description: PCBS

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
8	3 of 4	ENE/83.2	77.5	Associated Endodontists 265 Carling Ave, unit 620 Ottawa ON	GEN

PO Box Num:
Status:
Country:
Generator #: ON5430079
Approval Yrs: As of May 2015
SIC Code:
SIC Description:

--- Details ---
Waste Code: 312
Waste Description: Pathological wastes

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
8	4 of 4	ENE/83.2	77.5	265 Carling Avenue Ltd. 265 Carling Ave Ottawa ON K1S 2E1	GEN

PO Box Num:
Status: Registered
Country: Canada
Generator #: ON2678739
Approval Yrs: As of Sep 2016
SIC Code:
SIC Description:

--- Details ---
Waste Code: 243 D
Waste Description: PCB

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
9	1 of 1	NE/95.7	77.8	Ottawa ON	WWIS

Well ID: 7220782
Construction Date:
Primary Water Use: Monitoring
Sec. Water Use:
Final Well Status: Observation Wells
Specific Capacity:
Municipality: NEPEAN TOWNSHIP
County: OTTAWA-CARLETON

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

Bore Hole Information
-- --
Bore Hole ID: 1004779141
DP2BR:
Code OB:
Code OB Description:
Open Hole:
Date Completed: 07-MAY-12
Remarks:
Zone: 18
East 83: 445155
North 83: 5027756
UTMRC: 4
UTMRC Description: margin of error : 30 m - 100 m
Location Method: wwr
Org CS: UTM83
Elevation:
Elevrc:
Elevrc Description:
Location Source Date:
Source Revision Comment:
Improvement Location Source:
Improvement Location Method:
Supplier Comment:
Spatial Status:
-- --
Overburden and Bedrock Materials Interval
-- --
Formation ID: 1005172392
Layer: 1
General Color: BLACK
Most Common Material:
Other Materials:
Other Materials:
Formation Top Depth: 0
Formation End Depth: .075

Formation End Depth UOM:	m
--	--
Formation ID:	1005172393
Layer:	2
General Color:	GREY
Most Common Material:	STONES
Other Materials:	
Other Materials:	
Formation Top Depth:	.075
Formation End Depth:	.3
Formation End Depth UOM:	m
--	--
Formation ID:	1005172394
Layer:	3
General Color:	BROWN
Most Common Material:	SAND
Other Materials:	GRAVEL
Other Materials:	FILL
Formation Top Depth:	.3
Formation End Depth:	.69
Formation End Depth UOM:	m
--	--
Formation ID:	1005172395
Layer:	4
General Color:	BROWN
Most Common Material:	SAND
Other Materials:	GRAVEL
Other Materials:	BOULDERS
Formation Top Depth:	.69
Formation End Depth:	1.17
Formation End Depth UOM:	m
--	--
Formation ID:	1005172396
Layer:	5
General Color:	GREY
Most Common Material:	LIMESTONE
Other Materials:	SHALE
Other Materials:	ROCK
Formation Top Depth:	1.17
Formation End Depth:	15.39
Formation End Depth UOM:	m
--	--
Annular Space/Abandonment Sealing Record	
--	--
Plug ID:	1005172404
Layer:	1
Plug From:	0
Plug To:	11.6
Plug Depth UOM:	m
--	--
Method of Construction & Well Use	
--	--
Method Construction ID:	1005172403
Method Construction Code:	7
Method Construction:	Diamond
Other Method Construction:	
--	--
Pipe Information	
--	--
Pipe ID:	1005172391
Casing Number:	0
Comment:	
Alt Name:	
--	--

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

Construction Record - Casing	
--	--
Casing ID:	1005172400
Layer:	1
Open Hole or Material:	PLASTIC
Depth From:	0
Depth To:	12.4
Casing Diameter:	5
Casing Diameter UOM:	cm
Casing Depth UOM:	m
--	--
--	--
Construction Record - Screen	
--	--
Screen ID:	1005172401
Layer:	1
Slot:	10
Screen Top Depth:	12.4
Screen End Depth:	15.39
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	5.1
--	--
Water Details	
--	--
Water ID:	1005172399
Layer:	1
Kind Code:	8
Kind:	Untested
Water Found Depth:	3.4
Water Found Depth UOM:	m
--	--
Hole Diameter	
--	--
Hole ID:	1005172397
Diameter:	20
Depth From:	0
Depth To:	1.17
Hole Depth UOM:	m
Hole Diameter UOM:	cm
--	--
Hole ID:	1005172398
Diameter:	7.69
Depth From:	1.17
Depth To:	15.39
Hole Depth UOM:	m
Hole Diameter UOM:	cm
--	--
--	--

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
10	*1 of 7*	*WSW/103.4*	*67.2*	***GVT. OF (OUT OF BUSINESS)ES & RESOURCES*** ***401 LEBRETON STREET*** ***OTTAWA ON K1A 0E8***	*GEN*

PO Box Num:	
Status:	
Country:	
Generator #:	ON0269511
Approval Yrs:	00,01
SIC Code:	8172
SIC Description:	RES. CONS./IND. DEV.
--- Details ---	
Waste Code:	148

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

Waste Description: INORGANIC LABORATORY CHEMICALS
+
Waste Code: 263
Waste Description: ORGANIC LABORATORY CHEMICALS

---

10 | **2 of 7** | **WSW/103.4** | **67.2** | **GVT. OF CAN. - ENERGY MINES & RESOURCES**
401 LEBRETON STREET
OTTAWA ON K1A 0E8 | **GEN**

PO Box Num:
Status:
Country:
Generator #: ON0269511
Approval Yrs: 98,99
SIC Code: 8172
SIC Description: RES. CONS./IND. DEV.

--- Details ---
Waste Code: 148
Waste Description: INORGANIC LABORATORY CHEMICALS
+
Waste Code: 263
Waste Description: ORGANIC LABORATORY CHEMICALS

---

10 | **3 of 7** | **WSW/103.4** | **67.2** | **GVT. OF CAN. - ENERGY MINES & RES.**
TERRAIN SCIENCES GEOLOGICAL SURVEY 401 LEBRETON ST.
OTTAWA ON K1A 0E8 | **GEN**

PO Box Num:
Status:
Country:
Generator #: ON0269511
Approval Yrs: 86,87,88,89,90
SIC Code: 8172
SIC Description: RES. CONS./IND. DEV.

--- Details ---
Waste Code: 148
Waste Description: INORGANIC LABORATORY CHEMICALS
+
Waste Code: 263
Waste Description: ORGANIC LABORATORY CHEMICALS

---

10 | **4 of 7** | **WSW/103.4** | **67.2** | **GVT. OF CAN. - ENERGY MINES & RES.18-270**
TERRAIN SCIENCES GEOLOGICAL SURVEY 401 LEBRETON ST.
OTTAWA ON K1A 0E8 | **GEN**

PO Box Num:
Status:
Country:
Generator #: ON0269511
Approval Yrs: 92,93,94,95,96,97
SIC Code: 8172
SIC Description: RES. CONS./IND. DEV.

--- Details ---
Waste Code: 148
Waste Description: INORGANIC LABORATORY CHEMICALS
+
Waste Code: 263
Waste Description: ORGANIC LABORATORY CHEMICALS

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site		DB
10	5 of 7	WSW/103.4	67.2	Quantum Murray LP 401 Lebreton Street Ottawa ON		GEN

PO Box Num:
Status:
Country:
Generator #: ON6291713
Approval Yrs: 2011
SIC Code: 339990
SIC Description:

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site		DB
10	6 of 7	WSW/103.4	67.2	ENERGY MINES AND RESOURCES TERRAIN SCIENCES DIVISION 401 LIBRETON ST. OTTAWA ON		OPCB

Year: 1992
Site Number: 40289A013
Name Owner:
Additional Site Information:

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site		DB
10	7 of 7	WSW/103.4	67.2	TERRAPRO CORPORATION 401-A LEBRETON STREET SOUTH OTTAWA ON K1S 4L5		PES

Licence No.:
Licence Type:

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site		DB
11	1 of 2	ESE/106.5	74.2	BLACK & MCDONALD LIMITED 557 CAMBRIDGE STREET SOUTH OTTAWA ON K1S 4J4		GEN

PO Box Num:
Status:
Country:
Generator #: ON0264002
Approval Yrs: 98
SIC Code: 4261
SIC Description: ELECTRIAL WORK

--- Details ---
Waste Code: 251
Waste Description: OIL SKIMMINGS & SLUDGES

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site		DB
11	2 of 2	ESE/106.5	74.2	BLACK & MCDONALD LIMITED 557 CAMBRIDGE STREET SOUTH OTTAWA ON K1S 4J4	05-619	GEN

PO Box Num:
Status:
Country:
Generator #: ON0264002
Approval Yrs: 92,93,94,95,96,97
SIC Code: 4261
SIC Description: ELECTRIAL WORK

--- Details ---
Waste Code: 251
Waste Description: OIL SKIMMINGS & SLUDGES

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
12	1 of 13	ENE/108.3	77.2	265 Carling Avenue Ottawa ON K1S 2E1	EHS

Postal Code:
City:
Address2:
Address1:
Provstate:
Order No.: 20120830060
Addit. Info Ordered:
Report Date: 31-AUG-12
Report Type: Site Report
Search Radius (km): .25

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
12	2 of 13	ENE/108.3	77.2	265 Carling Ave Ottawa ON K1S 2E1	EHS

Postal Code:
City:
Address2:
Address1:
Provstate:
Order No.: 20120330051
Addit. Info Ordered:
Report Date: 4/11/2012 4:45:31 PM
Report Type: Standard Report
Search Radius (km): 0.25

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
12	3 of 13	ENE/108.3	77.2	Taggart Corporation 265 Carling Ave Ottawa ON K1S 2E1	GEN

PO Box Num:
Status:
Country:
Generator #: ON2678739
Approval Yrs: 2009
SIC Code: 531310
SIC Description: Real Estate Property Managers

--- Details ---
Waste Code: 243
Waste Description: PCBS

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
12	4 of 13	ENE/108.3	77.2	265 Carling Avenue Ltd. 265 Carling Ave Ottawa ON K1S 2E1	GEN

PO Box Num:
Status:
Country:
Generator #: ON2678739
Approval Yrs: 2011
SIC Code: 531310
SIC Description: Real Estate Property Managers

--- Details ---
Waste Code: 243
Waste Description: PCBS

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
12	5 of 13	ENE/108.3	77.2	265 Carling Avenue Ltd. 265 Carling Ave Ottawa ON K1S 2E1	GEN

PO Box Num:
Status:
Country:
Generator #: ON2678739
Approval Yrs: 2010
SIC Code: 531310
SIC Description: Real Estate Property Managers

--- Details ---
Waste Code: 243
Waste Description: PCBS

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
12	6 of 13	ENE/108.3	77.2	265 Carling Avenue Ltd. 265 Carling Ave Ottawa ON K1S 2E1	GEN

PO Box Num:
Status:
Country:
Generator #: ON2678739
Approval Yrs: 2012
SIC Code: 531310
SIC Description: Real Estate Property Managers

--- Details ---
Waste Code: 243
Waste Description: PCBS

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
12	7 of 13	ENE/108.3	77.2	265 Carling Avenue Ltd. 265 Carling Ave Ottawa ON K1S 2E1	GEN

PO Box Num:
Status:
Country:
Generator #: ON2678739
Approval Yrs: As of May 2015
SIC Code:
SIC Description:

--- Details ---
Waste Code: 243
Waste Description: PCB

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
12	8 of 13	ENE/108.3	77.2	Taggart Corporation 265 Carling Ave Ottawa ON K1S 2E1	GEN

PO Box Num:
Status:
Country:
Generator #: ON2678739
Approval Yrs: 07,08
SIC Code: 531310
SIC Description: Real Estate Property Managers

--- Details ---
Waste Code: 243
Waste Description: PCB'S

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
12	9 of 13	ENE/108.3	77.2	Nortak Software Ltd. 265 Carling Ave Floor 7 Ottawa ON K1S 2E1	SCT

Established: 1975
Plant Size (ft²): 16000
Employment:

--- Details ---
Description: Manufacturing and Reproducing Magnetic and Optical Media
SIC/NAICS Code: 334610
+
Description: Software Publishers
SIC/NAICS Code: 511210

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
12	10 of 13	ENE/108.3	77.2	Assn Faculties Medicine of Cda 265 Carling Ave Suite 800 Ottawa ON K1S 2E1	SCT

Established: 01-JAN-43
Plant Size (ft²):
Employment:

--- Details ---
Description: Professional Organizations
SIC/NAICS Code: 813920
+
Description: Professional Organizations
SIC/NAICS Code: 813920

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
12	11 of 13	ENE/108.3	77.2	NORTAK SOFTWARE LTD 265 CARLING AVE FLOOR 7 OTTAWA ON K1S 2E1	SCT

Established: 1975
Plant Size (ft²): 0
Employment: 55

--- Details ---
Description: MAGNETIC AND OPTICAL RECORDING MEDIA
SIC/NAICS Code: 3695

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
12	12 of 13	ENE/108.3	77.2	Beyond 20/20 Inc. 265 Carling Ave Suite 500 Ottawa ON K1S 2E1	SCT

Established: 01-OCT-87
Plant Size (ft²):
Employment:

--- Details ---
Description: Computer Systems Design and Related Services
SIC/NAICS Code: 541510
+
Description: Data Processing, Hosting, and Related Services
SIC/NAICS Code: 518210
+
Description: Software Publishers
SIC/NAICS Code: 511210

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
12	13 of 13	ENE/108.3	77.2	Cdn Post-M.D. Education Regist	SCT

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
				265 Carling Ave Suite 800 Ottawa ON K1S 2E1	

Established: 01-MAY-86
Plant Size (ft²):
Employment:

--- Details ---
Description: Periodical Publishers
SIC/NAICS Code: 511120
+
Description: Other Publishers
SIC/NAICS Code: 511190

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
13	1 of 1	NNW/108.8	77.7	PUC POLE TRANSFORMER OPPOSITE 326 POWELL STREET. OTTAWA CITY ON K1S 2A8	SPL

Ref NO: 4411
Contaminant Code:
Contaminant Name:
Contaminant Quantity:
Incident Cause: OTHER TRANSPORTATION ACCIDENT
Incident Dt: 5/29/1988
Incident Reason: UNKNOWN
Incident Summary: OTTAWA HYDRO-53 L OF TRANSFORMER OIL (CHLORIN-OIL TEST NEGATIVE)TO GRND
MOE Reported Dt: 5/29/1988
Environmental Impact:
Nature of Impact:
Receiving Medium: LAND
SAC Action Class:
Sector Source Type:
Site Municipality: 20101

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
14	1 of 6	NNE/113.1	76.3	515 Cambridge Street Ottawa ON K1S 4H9	EHS

Postal Code:
City:
Address2:
Address1:
Provstate:
Order No.: 20020116001
Addit. Info Ordered:
Report Date: 1/24/02
Report Type: Complete Report
Search Radius (km): 0.25

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
14	2 of 6	NNE/113.1	76.3	515 Cambridge St Ottawa ON K1S 4H9	EHS

Postal Code:
City:
Address2:
Address1:
Provstate:
Order No.: 20020211009
Addit. Info Ordered: Title Search
Report Date: 2/11/02
Report Type: Custom Report
Search Radius (km): 0.25

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
14	3 of 6	NNE/113.1	76.3	OTTAWA-CARLETON DISTRICT SCHOOL BOARD BORDEN HIGH SCHOOL 515 CAMBRIDGE STREET SOUTH OTTAWA ON K1S 4H9	GEN

PO Box Num:
Status:
Country:
Generator #: ON0375202
Approval Yrs: 98,99,00,02,03,04
SIC Code: 8511
SIC Description: ELEMT./SECON. EDUC.

--- Details ---
Waste Code: 148
Waste Description: INORGANIC LABORATORY CHEMICALS
+
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS
+
Waste Code: 263
Waste Description: ORGANIC LABORATORY CHEMICALS

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
14	4 of 6	NNE/113.1	76.3	OTTAWA BOARD OF EDUCATION 29-129 BORDEN HIGH SCHOOL 515 CAMBRIDGE ST. S. C/O 330 GILMOURST OTTAWA ON K2P 0P9	GEN

PO Box Num:
Status:
Country:
Generator #: ON0375202
Approval Yrs: 94,95,96
SIC Code: 8511
SIC Description: ELEMT./SECON. EDUC.

--- Details ---
Waste Code: 148
Waste Description: INORGANIC LABORATORY CHEMICALS
+
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS
+
Waste Code: 263
Waste Description: ORGANIC LABORATORY CHEMICALS

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
14	5 of 6	NNE/113.1	76.3	OTTAWA BOARD OF EDUCATION 515 CAMBRIDGE STREET SOUTH BORDEN HIGH SCHOOL OTTAWA ON K1S 4H9	GEN

PO Box Num:
Status:
Country:
Generator #: ON0375202
Approval Yrs: 92,93,97
SIC Code: 8511
SIC Description: ELEMT./SECON. EDUC.

--- Details ---
Waste Code: 148

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

Waste Description: INORGANIC LABORATORY CHEMICALS
+
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS
+
Waste Code: 263
Waste Description: ORGANIC LABORATORY CHEMICALS

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
14	6 of 6	NNE/113.1	76.3	OTTAWA BOARD OF EDUCATION BORDEN HIGH SCHOOL 515 CAMBRIDGE ST. S. C/O 330 GILMOURST OTTAWA ON K2P 0P9	GEN

PO Box Num:
Status:
Country:
Generator #: ON0375202
Approval Yrs: 86,87,88,89,90
SIC Code: 8511
SIC Description: ELEMT./SECON. EDUC.

--- Details ---
Waste Code: 148
Waste Description: INORGANIC LABORATORY CHEMICALS
+
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS
+
Waste Code: 263
Waste Description: ORGANIC LABORATORY CHEMICALS

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
15	1 of 1	ESE/123.0	76.1	774 Bronson Ave Ottawa ON K1S4G4	EHS

Postal Code: K1S4G4
City: Ottawa
Address2:
Address1: 774 Bronson Ave
Provstate: ON
Order No.: 20151124079
Addit. Info Ordered: Aerial Photos
Report Date: 01-DEC-15
Report Type: RSC Report (Urban)
Search Radius (km): .3

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
16	1 of 9	W/128.5	69.4	DEPT. OF NATIONAL DEFENSE MAPPING & CHARTING ESTABLISHMENT 360 LEBRETON STREET OTTAWA ON K1A 0E9	GEN

PO Box Num:
Status:
Country:
Generator #: ON0046565
Approval Yrs: 98,99,00,01,04,05,06,07,08
SIC Code: 8111
SIC Description: DEFENCE SERVICES

--- Details ---
Waste Code: 212
Waste Description: ALIPHATIC SOLVENTS
+
Waste Code: 212

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

Waste Description: ALIPHATIC SOLVENTS
+
Waste Code: 241
Waste Description: HALOGENATED SOLVENTS
+
Waste Code: 121
Waste Description: ALKALINE WASTES - HEAVY METALS
+
Waste Code: 213
Waste Description: PETROLEUM DISTILLATES
+
Waste Code: 112
Waste Description: ACID WASTE - HEAVY METALS
+
Waste Code: 145
Waste Description: PAINT/PIGMENT/COATING RESIDUES
+
Waste Code: 146
Waste Description: OTHER SPECIFIED INORGANICS
+
Waste Code: 113
Waste Description: ACID WASTE - OTHER METALS
+
Waste Code: 122
Waste Description: ALKALINE WASTES - OTHER METALS
+
Waste Code: 211
Waste Description: AROMATIC SOLVENTS
+
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS
+
Waste Code: 264
Waste Description: PHOTOPROCESSING WASTES
+
Waste Code: 265
Waste Description: GRAPHIC ART WASTES

16	2 of 9	W/128.5	69.4	***DEPT. OF NATIONAL DEFENSE MAPPING & CHARTING ESTABLISHMENT 360 LEBRETON STREET OTTAWA ON***	***GEN***

PO Box Num:
Status:
Country:
Generator #: ON0046565
Approval Yrs: 2013
SIC Code: 911110
SIC Description:

--- Details ---
Waste Code: 211
Waste Description: AROMATIC SOLVENTS
+
Waste Code: 112
Waste Description: ACID WASTE - HEAVY METALS
+
Waste Code: 121
Waste Description: ALKALINE WASTES - HEAVY METALS
+
Waste Code: 212
Waste Description: ALIPHATIC SOLVENTS
+
Waste Code: 331

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

Waste Description: WASTE COMPRESSED GASES
+
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS
+
Waste Code: 264
Waste Description: PHOTOPROCESSING WASTES
+
Waste Code: 122
Waste Description: ALKALINE WASTES - OTHER METALS
+
Waste Code: 145
Waste Description: PAINT/PIGMENT/COATING RESIDUES
+
Waste Code: 213
Waste Description: PETROLEUM DISTILLATES
+
Waste Code: 241
Waste Description: HALOGENATED SOLVENTS
+
Waste Code: 146
Waste Description: OTHER SPECIFIED INORGANICS
+
Waste Code: 263
Waste Description: ORGANIC LABORATORY CHEMICALS
+
Waste Code: 113
Waste Description: ACID WASTE - OTHER METALS
+
Waste Code: 265
Waste Description: GRAPHIC ART WASTES

16	*3 of 9*	*W/128.5*	*69.4*	***GVT OF CAN - NATIONAL DEFENSE*** ***MAPPING & CHARTING ESTABLISHMENT 360*** ***LEBRETON STREET*** ***OTTAWA ON K1A 0E9***	***GEN***

PO Box Num:
Status:
Country:
Generator #: ON0046565
Approval Yrs: 92,93,97
SIC Code: 8111
SIC Description: DEFENCE SERVICES

--- Details ---
Waste Code: 113
Waste Description: ACID WASTE - OTHER METALS
+
Waste Code: 211
Waste Description: AROMATIC SOLVENTS
+
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS
+
Waste Code: 264
Waste Description: PHOTOPROCESSING WASTES
+
Waste Code: 265
Waste Description: GRAPHIC ART WASTES

16	*4 of 9*	*W/128.5*	*69.4*	***DEPT. OF NATIONAL DEFENSE*** ***MAPPING & CHARTING ESTABLISHMENT 360*** ***LEBRETON STREET***	***GEN***

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
				OTTAWA ON	

PO Box Num:
Status:
Country:
Generator #: ON0046565
Approval Yrs: 2010
SIC Code: 911110
SIC Description: Defence Services

--- Details ---
Waste Code: 113
Waste Description: ACID WASTE - OTHER METALS
+
Waste Code: 122
Waste Description: ALKALINE WASTES - OTHER METALS
+
Waste Code: 112
Waste Description: ACID WASTE - HEAVY METALS
+
Waste Code: 121
Waste Description: ALKALINE WASTES - HEAVY METALS
+
Waste Code: 331
Waste Description: WASTE COMPRESSED GASES
+
Waste Code: 211
Waste Description: AROMATIC SOLVENTS
+
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS
+
Waste Code: 241
Waste Description: HALOGENATED SOLVENTS
+
Waste Code: 146
Waste Description: OTHER SPECIFIED INORGANICS
+
Waste Code: 265
Waste Description: GRAPHIC ART WASTES
+
Waste Code: 213
Waste Description: PETROLEUM DISTILLATES
+
Waste Code: 264
Waste Description: PHOTOPROCESSING WASTES
+
Waste Code: 212
Waste Description: ALIPHATIC SOLVENTS
+
Waste Code: 145
Waste Description: PAINT/PIGMENT/COATING RESIDUES

16	***5 of 9***	***W/128.5***	***69.4***	***DEPT. OF NATIONAL DEFENSE MAPPING & CHARTING ESTABLISHMENT 360 LEBRETON STREET OTTAWA ON K1A 0E9***	***GEN***

PO Box Num:
Status:
Country:
Generator #: ON0046565
Approval Yrs: 2012
SIC Code: 911110

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

SIC Description: Defence Services

--- Details ---

Waste Code: 241
Waste Description: HALOGENATED SOLVENTS
+
Waste Code: 264
Waste Description: PHOTOPROCESSING WASTES
+
Waste Code: 212
Waste Description: ALIPHATIC SOLVENTS
+
Waste Code: 112
Waste Description: ACID WASTE - HEAVY METALS
+
Waste Code: 331
Waste Description: WASTE COMPRESSED GASES
+
Waste Code: 265
Waste Description: GRAPHIC ART WASTES
+
Waste Code: 211
Waste Description: AROMATIC SOLVENTS
+
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS
+
Waste Code: 145
Waste Description: PAINT/PIGMENT/COATING RESIDUES
+
Waste Code: 146
Waste Description: OTHER SPECIFIED INORGANICS
+
Waste Code: 113
Waste Description: ACID WASTE - OTHER METALS
+
Waste Code: 121
Waste Description: ALKALINE WASTES - HEAVY METALS
+
Waste Code: 213
Waste Description: PETROLEUM DISTILLATES
+
Waste Code: 122
Waste Description: ALKALINE WASTES - OTHER METALS

16	***6 of 9***	***W/128.5***	***69.4***	***DEPT. OF NATIONAL DEFENSE MAPPING & CHARTING ESTABLISHMENT 360 LEBRETON STREET OTTAWA ON***	***GEN***

PO Box Num:
Status:
Country:
Generator #: ON0046565
Approval Yrs: 2011
SIC Code: 911110
SIC Description: Defence Services

--- Details ---

Waste Code: 121
Waste Description: ALKALINE WASTES - HEAVY METALS
+
Waste Code: 213
Waste Description: PETROLEUM DISTILLATES
+

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

Waste Code: 331
Waste Description: WASTE COMPRESSED GASES
+
Waste Code: 146
Waste Description: OTHER SPECIFIED INORGANICS
+
Waste Code: 145
Waste Description: PAINT/PIGMENT/COATING RESIDUES
+
Waste Code: 264
Waste Description: PHOTOPROCESSING WASTES
+
Waste Code: 241
Waste Description: HALOGENATED SOLVENTS
+
Waste Code: 113
Waste Description: ACID WASTE - OTHER METALS
+
Waste Code: 211
Waste Description: AROMATIC SOLVENTS
+
Waste Code: 122
Waste Description: ALKALINE WASTES - OTHER METALS
+
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS
+
Waste Code: 212
Waste Description: ALIPHATIC SOLVENTS
+
Waste Code: 265
Waste Description: GRAPHIC ART WASTES
+
Waste Code: 112
Waste Description: ACID WASTE - HEAVY METALS

16	7 of 9	W/128.5	69.4	***DEPT. OF NATIONAL DEFENSE*** ***MAPPING & CHARTING ESTABLISHMENT 360*** ***LEBRETON STREET*** ***OTTAWA ON K1A 0E9***	GEN

PO Box Num:
Status:
Country:
Generator #: ON0046565
Approval Yrs: As of May 2015
SIC Code:
SIC Description:

--- Details ---
Waste Code: 264
Waste Description: Photoprocessing wastes
+
Waste Code: 252
Waste Description: Waste crankcase oils and lubricants
+
Waste Code: 112
Waste Description: Acid solutions - containing heavy metals
+
Waste Code: 265
Waste Description: Graphic arts wastes
+
Waste Code: 241
Waste Description: Halogenated solvents and residues
+

Waste Code: 121
Waste Description: Alkaline slutions - containing heavy metals
+
Waste Code: 213
Waste Description: Petroleum distillates
+
Waste Code: 263
Waste Description: Misc. waste organic chemicals
+
Waste Code: 146
Waste Description: Other specified inorganic sludges, slurries or solids
+
Waste Code: 212
Waste Description: Aliphatic solvents and residues
+
Waste Code: 331
Waste Description: Waste compressed gases including cylinders
+
Waste Code: 145
Waste Description: Wastes from the use of pigments, coatings and paints

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16 | ***8 of 9*** | ***W/128.5*** | ***69.4*** | ***DEPT. OF NATIONAL DEFENSE***
MAPPING & CHARTING ESTABLISHMENT 360
LEBRETON STREET
OTTAWA ON | ***GEN***

PO Box Num:
Status:
Country:
Generator #: ON0046565
Approval Yrs: 2009
SIC Code: 911112
SIC Description:

--- Details ---
Waste Code: 112
Waste Description: ACID WASTE - HEAVY METALS
+
Waste Code: 113
Waste Description: ACID WASTE - OTHER METALS
+
Waste Code: 121
Waste Description: ALKALINE WASTES - HEAVY METALS
+
Waste Code: 122
Waste Description: ALKALINE WASTES - OTHER METALS
+
Waste Code: 145
Waste Description: PAINT/PIGMENT/COATING RESIDUES
+
Waste Code: 146
Waste Description: OTHER SPECIFIED INORGANICS
+
Waste Code: 211
Waste Description: AROMATIC SOLVENTS
+
Waste Code: 212
Waste Description: ALIPHATIC SOLVENTS
+
Waste Code: 213
Waste Description: PETROLEUM DISTILLATES
+
Waste Code: 241
Waste Description: HALOGENATED SOLVENTS
+

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

Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS
+
Waste Code: 264
Waste Description: PHOTOPROCESSING WASTES
+
Waste Code: 265
Waste Description: GRAPHIC ART WASTES

---

16 | **9 of 9** | **W/128.5** | **69.4** | **GVT OF CAN - NATIONAL DEFENSE 17-505**
MAPPING & CHARTING ESTABLISHMENT 360
LEBRETON STREET
OTTAWA ON K1A 0E9 | **GEN**

PO Box Num:
Status:
Country:
Generator #: ON0046565
Approval Yrs: 94,95,96
SIC Code: 8111
SIC Description: DEFENCE SERVICES

--- Details ---
Waste Code: 113
Waste Description: ACID WASTE - OTHER METALS
+
Waste Code: 211
Waste Description: AROMATIC SOLVENTS
+
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS
+
Waste Code: 264
Waste Description: PHOTOPROCESSING WASTES
+
Waste Code: 265
Waste Description: GRAPHIC ART WASTES

---

17 | **1 of 1** | **WSW/133.5** | **66.2** | **ON** | **BORE**

Borehole ID: 613085
Use:
Drill Method:
Easting: 444931
Location Accuracy:
Elev. Reliability Note:
Total Depth m: -999
Township:
Lot:
Completion Date:
Primary Water Use:

Type: Borehole
Status:
UTM Zone: 18
Northing: 5027622
Orig. Ground Elev m: 64
DEM Ground Elev m: 66.4
Primary Name:
Concession:
Municipality:
Static Water Level: -999.9
Sec. Water Use:

--- Details ---
Stratum ID: 218393626
Bottom Depth(m): 2.1
Top Depth(m): 0.0
Stratum Desc: GRAVEL. COMPACT.
+
Stratum ID: 218393627
Bottom Depth(m): 2.4
Top Depth(m): 2.1
Stratum Desc: GRAVEL.
+
Stratum ID: 218393628
Top Depth(m): 2.4

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

Bottom Depth(m):	5.5	**Stratum Desc:**	SAND. COMPACT.
+			
Stratum ID:	218393629	**Top Depth(m):**	5.5
Bottom Depth(m):		**Stratum Desc:**	BEDROCK. 80.3 FEET.GRAVEL. COMPACT. SAND. FIRM. GRAVEL. BEDROCK. 025 012 00075

18 | ***1 of 1*** | ***ENE/136.9*** | ***76.8*** | ***256 Carling Avenue Ottawa ON K1S 2E1*** | ***EHS***

Postal Code:	
City:	
Address2:	
Address1:	
Provstate:	
Order No.:	20060222007
Addit. Info Ordered:	Fire Insur. Maps and/or Site Plans; City Directory
Report Date:	3/2/2006
Report Type:	Complete Report
Search Radius (km):	0.25

19 | ***1 of 11*** | ***E/136.9*** | ***76.6*** | ***770 Bronson Ave Ottawa ON K1S4G4*** | ***EHS***

Postal Code:	K1S4G4
City:	Ottawa
Address2:	
Address1:	770 Bronson Ave
Provstate:	ON
Order No.:	20150512018
Addit. Info Ordered:	City Directory
Report Date:	19-MAY-15
Report Type:	Standard Report
Search Radius (km):	.25

19 | ***2 of 11*** | ***E/136.9*** | ***76.6*** | ***EMILIO LINDIA ENTERPRISES LTD 770 BRONSON AV OTTAWA ON K1S 4G4*** | ***EXP***

Instance ID:	
TSSA Program Area:	
Maximum Hazard Rank:	
Facility Type:	
Expired Date:	7/17/1996
Instance Number:	9555979
Instance Type:	FS Facility
Status:	EXPIRED
Description:	

19 | ***3 of 11*** | ***E/136.9*** | ***76.6*** | ***EMILIO LINDIA ENTERPRISES LTD 770 BRONSON AV OTTAWA ON K1S 4G4*** | ***EXP***

Instance ID:	
TSSA Program Area:	
Maximum Hazard Rank:	
Facility Type:	
Expired Date:	7/17/1996
Instance Number:	11326332

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Instance Type:		FS Liquid Fuel Tank			
Status:		EXPIRED			
Description:					

19	4 of 11	E/136.9	76.6	EMILIO LINDIA ENTERPRISES LTD 770 BRONSON AV OTTAWA ON K1S 4G4	EXP

Instance ID:	
TSSA Program Area:	
Maximum Hazard Rank:	
Facility Type:	
Expired Date:	7/17/1996
Instance Number:	11326312
Instance Type:	FS Liquid Fuel Tank
Status:	EXPIRED
Description:	

19	5 of 11	E/136.9	76.6	EMILIO LINDIA ENTERPRISES LTD 770 BRONSON AV OTTAWA ON K1S 4G4	EXP

Instance ID:	
TSSA Program Area:	
Maximum Hazard Rank:	
Facility Type:	FS Liquid Fuel Tank
Expired Date:	7/17/1996
Instance Number:	11326332
Instance Type:	FS Liquid Fuel Tank
Status:	EXPIRED
Description:	FS Gasoline Station - Full Serve

19	6 of 11	E/136.9	76.6	EMILIO LINDIA ENTERPRISES LTD 770 BRONSON AV OTTAWA ON K1S 4G4	EXP

Instance ID:	
TSSA Program Area:	
Maximum Hazard Rank:	
Facility Type:	
Expired Date:	7/17/1996
Instance Number:	11326353
Instance Type:	FS Liquid Fuel Tank
Status:	EXPIRED
Description:	

19	7 of 11	E/136.9	76.6	EMILIO LINDIA ENTERPRISES LTD 770 BRONSON AV OTTAWA ON K1S 4G4	EXP

Instance ID:	
TSSA Program Area:	
Maximum Hazard Rank:	
Facility Type:	FS Liquid Fuel Tank
Expired Date:	7/17/1996
Instance Number:	11326353
Instance Type:	FS Liquid Fuel Tank
Status:	EXPIRED
Description:	FS Gasoline Station - Full Serve

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
19	8 of 11	E/136.9	76.6	EMILIO LINDIA ENTERPRISES LTD 770 BRONSON AV OTTAWA ON K1S 4G4	EXP

Instance ID:	
TSSA Program Area:	
Maximum Hazard Rank:	
Facility Type:	
Expired Date:	7/17/1996
Instance Number:	10901584
Instance Type:	FS Liquid Fuel Tank
Status:	EXPIRED
Description:	

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
19	9 of 11	E/136.9	76.6	EMILIO LINDIA ENTERPRISES LTD 770 BRONSON AV OTTAWA ON	EXP

Instance ID:	11548
TSSA Program Area:	
Maximum Hazard Rank:	
Facility Type:	
Expired Date:	
Instance Number:	10075444
Instance Type:	FS Facility
Status:	EXPIRED
Description:	FS Propane Cylr Handling Facility

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
19	10 of 11	E/136.9	76.6	EMILIO LINDIA ENTERPRISES LTD 770 BRONSON AV OTTAWA ON K1S 4G4	EXP

Instance ID:	
TSSA Program Area:	
Maximum Hazard Rank:	
Facility Type:	FS Liquid Fuel Tank
Expired Date:	7/17/1996
Instance Number:	11326312
Instance Type:	FS Liquid Fuel Tank
Status:	EXPIRED
Description:	FS Gasoline Station - Full Serve

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
19	11 of 11	E/136.9	76.6	EMILIO LINDIA ENTERPRISES LTD 770 BRONSON AV OTTAWA ON K1S 4G4	EXP

Instance ID:	
TSSA Program Area:	
Maximum Hazard Rank:	
Facility Type:	FS Liquid Fuel Tank
Expired Date:	7/17/1996
Instance Number:	10901584
Instance Type:	FS Liquid Fuel Tank
Status:	EXPIRED
Description:	FS Gasoline Station - Full Serve

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
20	1 of 3	E/139.1	76.5	770 Bronson Avenue Ottawa ON K1S 4G4	EHS

Postal Code:
City:
Address2:
Address1:
Provstate:
Order No.: 20100203003
Addit. Info Ordered:
Report Date: 2/9/2010
Report Type: Custom Report
Search Radius (km): 0.25

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
20	2 of 3	E/139.1	76.5	EMILIO LINDIA ENTERPRISES LTD 770 BRONSON AV OTTAWA ON K1S4G4	PRT

Location ID: 10887
Type: retail
Expiry Date: 1995-04-30
Capacity (L): 0
Licence #: 0076416510

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
20	3 of 3	E/139.1	76.5	EMILIO LINDIA ENTERPRISES LTD 770 BRONSON AV OTTAWA ON K1S 4G4	PRT

Location ID: 10887
Type: retail
Expiry Date: 1995-07-31
Capacity (L): 0
Licence #: 0023005001

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
21	1 of 1	ESE/156.0	74.9	786 Bronson Ave Ottawa ON K1S4G4	EHS

Postal Code: K1S4G4
City: Ottawa
Address2:
Address1: 786 Bronson Ave
Provstate: ON
Order No.: 20150721049
Addit. Info Ordered:
Report Date: 23-JUL-15
Report Type: Custom Report
Search Radius (km): .25

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
22	1 of 2	ENE/159.6	76.3	Bronson Ave and Carling Ave Ottawa ON	SPL

Ref NO: 2440-5SQ73H
Contaminant Code: 12
Contaminant Name: GASOLINE
Contaminant Quantity: 1 L
Incident Cause:
Incident Dt: 10/26/2003
Incident Reason:
Incident Summary: Ottawa:MVA, ukn vol gas to sewers

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
MOE Reported Dt:		10/26/2003			
Environmental Impact:		Possible			
Nature of Impact:		Surface Water Pollution			
Receiving Medium:		Water			
SAC Action Class:					
Sector Source Type:					
Site Municipality:		Ottawa			

22	2 of 2	ENE/159.6	76.3	**OTTAWA HYDRO** **CORNER OF CARLING & BRONSON OTTAWA** **TRANSFORMER** **OTTAWA CITY ON**	SPL

Ref NO:	58100
Contaminant Code:	
Contaminant Name:	
Contaminant Quantity:	
Incident Cause:	COOLING SYSTEM LEAK
Incident Dt:	10/2/1991
Incident Reason:	INTENTIONAL/PLANNED
Incident Summary:	OTTAWA HYDRO- 14L NON-PCBTRANSFORMER OIL TO GROUND& STORM SEWER.
MOE Reported Dt:	10/2/1991
Environmental Impact:	NOT ANTICIPATED
Nature of Impact:	Surface Water Pollution
Receiving Medium:	LAND / WATER
SAC Action Class:	
Sector Source Type:	
Site Municipality:	20101

23	1 of 1	NNE/160.5	74.3	**Goodex Equipment Rental Ltd** **515 Cambridge St.** **Ottawa ON**	GEN

PO Box Num:	
Status:	
Country:	
Generator #:	ON4691226
Approval Yrs:	03,04
SIC Code:	
SIC Description:	

24	1 of 1	NW/161.0	73.1	**345 Lebreton Street** **Ottawa ON K1A 0E9**	EHS

Postal Code:	
City:	
Address2:	
Address1:	
Provstate:	
Order No.:	20120416027
Addit. Info Ordered:	
Report Date:	4/25/2012 2:58:08 PM
Report Type:	Standard Report
Search Radius (km):	0.25

25	1 of 1	N/168.9	76.0	**315 Powell Avenue<UNOFFICIAL>** **Ottawa ON**	SPL

Ref NO:	1740-887H2U

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

Contaminant Code:	15
Contaminant Name:	HYDRAULIC OIL
Contaminant Quantity:	30 L
Incident Cause:	Pipe Or Hose Leak
Incident Dt:	
Incident Reason:	Equipment Failure
Incident Summary:	Hydraulic oil spill to 315 Powell Avenue.
MOE Reported Dt:	8/10/2010
Environmental Impact:	Not Anticipated
Nature of Impact:	Surface Water Pollution
Receiving Medium:	
SAC Action Class:	Land Spills
Sector Source Type:	Motor Vehicle
Site Municipality:	

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26 | **1 of 1** | **NE/173.2** | **75.5** | **R.M. OF OTTAWA-CARLETON CLEMOW AVE/BRONSON AVE/BANK ST OTTAWA CITY ON** | **CA**

Certificate #:	7-0438-95-
Application Year:	95
Issue Date:	6/2/1995
Approval Type:	Municipal water
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

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27 | **1 of 1** | **NNW/174.9** | **76.3** | **482 Cambridge St S Ottawa ON K1S4H7** | **EHS**

Postal Code:	K1S4H7
City:	Ottawa
Address2:	
Address1:	482 Cambridge St S
Provstate:	ON
Order No.:	20160311139
Addit. Info Ordered:	City Directory
Report Date:	18-MAR-16
Report Type:	Standard Report
Search Radius (km):	.25

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28 | **1 of 1** | **WSW/176.9** | **65.0** | **Ottawa ON** | **WWIS**

Well ID:	7122535	**Lot:**	
Construction Date:		**Concession:**	
Primary Water Use:	Monitoring	**Concession Name:**	
Sec. Water Use:		**Easting NAD83:**	
Final Well Status:	Test Hole	**Northing NAD83:**	
Specific Capacity:		**Zone:**	
Municipality:	OTTAWA CITY	**UTM Reliability:**	
County:	OTTAWA-CARLETON		

Bore Hole Information

--	--

Bore Hole ID:	1002420733
DP2BR:	
Code OB:	
Code OB Description:	
Open Hole:	
Date Completed:	10-MAR-09
Remarks:	
Zone:	18
East 83:	444946
North 83:	5027605
UTMRC:	4
UTMRC Description:	margin of error : 30 m - 100 m
Location Method:	wwr
Org CS:	UTM83
Elevation:	65.97
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	
Improvement Location Source:	
Improvement Location Method:	
Supplier Comment:	
Spatial Status:	
--	--
Overburden and Bedrock Materials Interval	
--	--
Formation ID:	1002757770
Layer:	1
General Color:	BROWN
Most Common Material:	SAND
Other Materials:	
Other Materials:	TOPSOIL
Formation Top Depth:	0
Formation End Depth:	.6
Formation End Depth UOM:	m
--	--
Formation ID:	1002757771
Layer:	2
General Color:	BROWN
Most Common Material:	FILL
Other Materials:	
Other Materials:	
Formation Top Depth:	.6
Formation End Depth:	4.2
Formation End Depth UOM:	m
--	--
Formation ID:	1002757772
Layer:	3
General Color:	GREY
Most Common Material:	LIMESTONE
Other Materials:	
Other Materials:	ROCK
Formation Top Depth:	4.2
Formation End Depth:	8.8
Formation End Depth UOM:	m
--	--
Annular Space/Abandonment Sealing Record	
--	--
Plug ID:	1002757775
Layer:	1
Plug From:	0
Plug To:	.6
Plug Depth UOM:	m
--	--

Plug ID:	1002757776
Layer:	2
Plug From:	.6
Plug To:	5.4
Plug Depth UOM:	m
--	--
Plug ID:	1002757777
Layer:	3
Plug From:	5.4
Plug To:	8.8
Plug Depth UOM:	m
--	--
Method of Construction & Well Use	
--	--
Method Construction ID:	1002757781
Method Construction Code:	5
Method Construction:	Air Percussion
Other Method Construction:	
--	--
Pipe Information	
--	--
Pipe ID:	1002757769
Casing Number:	0
Comment:	
Alt Name:	
--	--
Construction Record - Casing	
--	--
Casing ID:	1002757778
Layer:	1
Open Hole or Material:	PLASTIC
Depth From:	0
Depth To:	5.9
Casing Diameter:	3.4
Casing Diameter UOM:	cm
Casing Depth UOM:	m
--	--
--	--
Construction Record - Screen	
--	--
Screen ID:	1002757779
Layer:	1
Slot:	10
Screen Top Depth:	
Screen End Depth:	
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	4
--	--
Hole Diameter	
--	--
Hole ID:	1002757773
Diameter:	8.9
Depth From:	0
Depth To:	4.2
Hole Depth UOM:	m
Hole Diameter UOM:	cm
--	--
Hole ID:	1002757774
Diameter:	5
Depth From:	4.2
Depth To:	8.8
Hole Depth UOM:	m
Hole Diameter UOM:	cm

--	--
--	--
Bore Hole ID:	1002757760
DP2BR:	
Code OB:	
Code OB Description:	
Open Hole:	
Date Completed:	
Remarks:	
Zone:	18
East 83:	444903
North 83:	5027578
UTMRC:	3
UTMRC Description:	margin of error : 10 - 30 m
Location Method:	wwr
Org CS:	UTM83
Elevation:	64.53
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	
Improvement Location Source:	
Improvement Location Method:	
Supplier Comment:	
Spatial Status:	
--	--
Annular Space/Abandonment Sealing Record	
--	--
Plug ID:	1002757764
Layer:	
Plug From:	
Plug To:	
Plug Depth UOM:	
--	--
Method of Construction & Well Use	
--	--
Method Construction ID:	1002757763
Method Construction Code:	
Method Construction:	
Other Method Construction:	AIR PERCUSSION
--	--
Pipe Information	
--	--
Pipe ID:	1002757765
Casing Number:	0
Comment:	
Alt Name:	
--	--
Construction Record - Casing	
--	--
Casing ID:	1002757767
Layer:	
Open Hole or Material:	PLASTIC
Depth From:	
Depth To:	5.18
Casing Diameter:	
Casing Diameter UOM:	
Casing Depth UOM:	m
--	--
--	--
Construction Record - Screen	
--	--
Screen ID:	1002757766
Layer:	

Slot:	
Screen Top Depth:	5.18
Screen End Depth:	8.5
Screen Material:	
Screen Depth UOM:	m
Screen Diameter UOM:	
Screen Diameter:	
--	--
Well Yield Testing	
--	--
Pump Test ID:	1002757768
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	
Rate UOM:	
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	
--	--
Hole Diameter	
--	--
Hole ID:	1002757762
Diameter:	5
Depth From:	
Depth To:	8.5
Hole Depth UOM:	m
Hole Diameter UOM:	cm
--	--
--	--
Bore Hole ID:	1002757751
DP2BR:	
Code OB:	
Code OB Description:	
Open Hole:	
Date Completed:	16-MAR-09
Remarks:	
Zone:	18
East 83:	444773
North 83:	5027850
UTMRC:	3
UTMRC Description:	margin of error : 10 - 30 m
Location Method:	wwr
Org CS:	UTM83
Elevation:	67.94
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	
Improvement Location Source:	
Improvement Location Method:	
Supplier Comment:	
Spatial Status:	
--	--
Annular Space/Abandonment Sealing Record	
--	--
Plug ID:	1002757755
Layer:	

Plug From:	
Plug To:	
Plug Depth UOM:	
--	--
Method of Construction & Well Use	
--	--
Method Construction ID:	1002757754
Method Construction Code:	
Method Construction:	
Other Method Construction:	AIR PERCUSSION
--	--
Pipe Information	
--	--
Pipe ID:	1002757756
Casing Number:	0
Comment:	
Alt Name:	
--	--
Construction Record - Casing	
--	--
Casing ID:	1002757758
Layer:	
Open Hole or Material:	PLASTIC
Depth From:	
Depth To:	3
Casing Diameter:	
Casing Diameter UOM:	
Casing Depth UOM:	m
--	--
--	--
Construction Record - Screen	
--	--
Screen ID:	1002757757
Layer:	
Slot:	
Screen Top Depth:	3
Screen End Depth:	9.2
Screen Material:	
Screen Depth UOM:	m
Screen Diameter UOM:	
Screen Diameter:	
--	--
Well Yield Testing	
--	--
Pump Test ID:	1002757759
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	
Rate UOM:	
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	
--	--
Hole Diameter	
--	--
Hole ID:	1002757753
Diameter:	5

Depth From:	
Depth To:	9.2
Hole Depth UOM:	m
Hole Diameter UOM:	cm
--	--
--	--
Bore Hole ID:	1002757742
DP2BR:	
Code OB:	
Code OB Description:	
Open Hole:	
Date Completed:	16-MAR-09
Remarks:	
Zone:	18
East 83:	444863
North 83:	5027819
UTMRC:	3
UTMRC Description:	margin of error : 10 - 30 m
Location Method:	wwr
Org CS:	UTM83
Elevation:	70.26
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	
Improvement Location Source:	
Improvement Location Method:	
Supplier Comment:	
Spatial Status:	
--	--
Annular Space/Abandonment Sealing Record	
--	--
Plug ID:	1002757746
Layer:	
Plug From:	
Plug To:	
Plug Depth UOM:	
--	--
Method of Construction & Well Use	
--	--
Method Construction ID:	1002757745
Method Construction Code:	
Method Construction:	
Other Method Construction:	AIR PERCUSSION
--	--
Pipe Information	
--	--
Pipe ID:	1002757747
Casing Number:	0
Comment:	
Alt Name:	
--	--
Construction Record - Casing	
--	--
Casing ID:	1002757749
Layer:	
Open Hole or Material:	PLASTIC
Depth From:	
Depth To:	3
Casing Diameter:	
Casing Diameter UOM:	
Casing Depth UOM:	m
--	--
--	--

Construction Record - Screen	
--	--
Screen ID:	1002757748
Layer:	
Slot:	
Screen Top Depth:	3
Screen End Depth:	8.5
Screen Material:	
Screen Depth UOM:	m
Screen Diameter UOM:	
Screen Diameter:	
--	--
Well Yield Testing	
--	--
Pump Test ID:	1002757750
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	
Rate UOM:	
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	
--	--
Hole Diameter	
--	--
Hole ID:	1002757744
Diameter:	5
Depth From:	
Depth To:	8.5
Hole Depth UOM:	m
Hole Diameter UOM:	cm
--	--
--	--
Bore Hole ID:	1002757733
DP2BR:	
Code OB:	
Code OB Description:	
Open Hole:	
Date Completed:	13-MAR-09
Remarks:	
Zone:	18
East 83:	444904
North 83:	5027720
UTMRC:	3
UTMRC Description:	margin of error : 10 - 30 m
Location Method:	wwr
Org CS:	UTM83
Elevation:	69.43
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	
Improvement Location Source:	
Improvement Location Method:	
Supplier Comment:	
Spatial Status:	
--	--
Annular Space/Abandonment	

Sealing Record	
--	--
Plug ID:	1002757737
Layer:	
Plug From:	
Plug To:	
Plug Depth UOM:	
--	--
Method of Construction & Well Use	
--	--
Method Construction ID:	1002757736
Method Construction Code:	
Method Construction:	
Other Method Construction:	AIR PERCUSSION
--	--
Pipe Information	
--	--
Pipe ID:	1002757738
Casing Number:	0
Comment:	
Alt Name:	
--	--
Construction Record - Casing	
--	--
Casing ID:	1002757740
Layer:	
Open Hole or Material:	PLASTIC
Depth From:	
Depth To:	3
Casing Diameter:	
Casing Diameter UOM:	
Casing Depth UOM:	m
--	--
--	--
Construction Record - Screen	
--	--
Screen ID:	1002757739
Layer:	
Slot:	
Screen Top Depth:	3
Screen End Depth:	9.2
Screen Material:	
Screen Depth UOM:	m
Screen Diameter UOM:	
Screen Diameter:	
--	--
Well Yield Testing	
--	--
Pump Test ID:	1002757741
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	
Rate UOM:	
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	
--	--

Hole Diameter
-- --
Hole ID: 1002757735
Diameter: 5
Depth From:
Depth To: 9.2
Hole Depth UOM: m
Hole Diameter UOM: cm
-- --
-- --
Bore Hole ID: 1002757724
DP2BR:
Code OB:
Code OB Description:
Open Hole:
Date Completed: 13-MAR-09
Remarks:
Zone: 18
East 83: 444936
North 83: 5027638
UTMRC: 3
UTMRC Description: margin of error : 10 - 30 m
Location Method: wwr
Org CS: UTM83
Elevation: 67.09
Elevrc:
Elevrc Description:
Location Source Date:
Source Revision Comment:
Improvement Location Source:
Improvement Location Method:
Supplier Comment:
Spatial Status:
-- --
Annular Space/Abandonment Sealing Record
-- --
Plug ID: 1002757728
Layer:
Plug From:
Plug To:
Plug Depth UOM:
-- --
Method of Construction & Well Use
-- --
Method Construction ID: 1002757727
Method Construction Code:
Method Construction:
Other Method Construction: AIR PERCUSSION
-- --
Pipe Information
-- --
Pipe ID: 1002757729
Casing Number: 0
Comment:
Alt Name:
-- --
Construction Record - Casing
-- --
Casing ID: 1002757731
Layer:
Open Hole or Material: PLASTIC
Depth From:
Depth To: 3
Casing Diameter:

Casing Diameter UOM:	
Casing Depth UOM:	m
--	--
--	--
Construction Record - Screen	
--	--
Screen ID:	1002757730
Layer:	
Slot:	
Screen Top Depth:	3
Screen End Depth:	9.2
Screen Material:	
Screen Depth UOM:	m
Screen Diameter UOM:	
Screen Diameter:	
--	--
Well Yield Testing	
--	--
Pump Test ID:	1002757732
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	
Rate UOM:	
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	
--	--
Hole Diameter	
--	--
Hole ID:	1002757726
Diameter:	5
Depth From:	
Depth To:	9.2
Hole Depth UOM:	m
Hole Diameter UOM:	cm
--	--
--	--
Bore Hole ID:	1002757715
DP2BR:	
Code OB:	
Code OB Description:	
Open Hole:	
Date Completed:	12-MAR-09
Remarks:	
Zone:	18
East 83:	444838
North 83:	5027681
UTMRC:	3
UTMRC Description:	margin of error : 10 - 30 m
Location Method:	wwr
Org CS:	UTM83
Elevation:	65.01
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	
Improvement Location Source:	
Improvement Location Method:	

Supplier Comment:
Spatial Status:
-- --
Annular Space/Abandonment Sealing Record
-- --
Plug ID: 1002757719
Layer:
Plug From:
Plug To:
Plug Depth UOM:
-- --
Method of Construction & Well Use
-- --
Method Construction ID: 1002757718
Method Construction Code:
Method Construction:
Other Method Construction: AIR PERCUSSION
-- --
Pipe Information
-- --
Pipe ID: 1002757720
Casing Number: 0
Comment:
Alt Name:
-- --
Construction Record - Casing
-- --
Casing ID: 1002757722
Layer:
Open Hole or Material: PLASTIC
Depth From:
Depth To: 3.7
Casing Diameter:
Casing Diameter UOM:
Casing Depth UOM: m
-- --
-- --
Construction Record - Screen
-- --
Screen ID: 1002757721
Layer:
Slot:
Screen Top Depth: 3.7
Screen End Depth: 6.7
Screen Material:
Screen Depth UOM: m
Screen Diameter UOM:
Screen Diameter:
-- --
Well Yield Testing
-- --
Pump Test ID: 1002757723
Pump Set At:
Static Level:
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM:
Rate UOM:
Water State After Test Code:
Water State After Test:
Pumping Test Method:

Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	
--	--
Hole Diameter	
--	--
Hole ID:	1002757717
Diameter:	5
Depth From:	
Depth To:	6.7
Hole Depth UOM:	m
Hole Diameter UOM:	cm
--	--
--	--
Bore Hole ID:	1002757706
DP2BR:	
Code OB:	
Code OB Description:	
Open Hole:	
Date Completed:	12-MAR-09
Remarks:	
Zone:	18
East 83:	444878
North 83:	5027615
UTMRC:	3
UTMRC Description:	margin of error : 10 - 30 m
Location Method:	wwr
Org CS:	UTM83
Elevation:	64.73
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	
Improvement Location Source:	
Improvement Location Method:	
Supplier Comment:	
Spatial Status:	
--	--
Annular Space/Abandonment Sealing Record	
--	--
Plug ID:	1002757710
Layer:	
Plug From:	
Plug To:	
Plug Depth UOM:	
--	--
Method of Construction & Well Use	
--	--
Method Construction ID:	1002757709
Method Construction Code:	
Method Construction:	
Other Method Construction:	AIR PERCUSSION
--	--
Pipe Information	
--	--
Pipe ID:	1002757711
Casing Number:	0
Comment:	
Alt Name:	
--	--
Construction Record - Casing	
--	--
Casing ID:	1002757713
Layer:	

Open Hole or Material:	PLASTIC
Depth From:	
Depth To:	4.6
Casing Diameter:	
Casing Diameter UOM:	
Casing Depth UOM:	m
--	--
--	--
Construction Record - Screen	
--	--
Screen ID:	1002757712
Layer:	
Slot:	
Screen Top Depth:	4.6
Screen End Depth:	7.6
Screen Material:	
Screen Depth UOM:	m
Screen Diameter UOM:	
Screen Diameter:	
--	--
Well Yield Testing	
--	--
Pump Test ID:	1002757714
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	
Rate UOM:	
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	
--	--
Hole Diameter	
--	--
Hole ID:	1002757708
Diameter:	5
Depth From:	
Depth To:	7.6
Hole Depth UOM:	m
Hole Diameter UOM:	cm
--	--
--	--
Bore Hole ID:	1002757697
DP2BR:	
Code OB:	
Code OB Description:	
Open Hole:	
Date Completed:	12-MAR-09
Remarks:	
Zone:	18
East 83:	444889
North 83:	5027571
UTMRC:	3
UTMRC Description:	margin of error : 10 - 30 m
Location Method:	wwr
Org CS:	UTM83
Elevation:	64.4
Elevrc:	
Elevrc Description:	

Location Source Date:	
Source Revision Comment:	
Improvement Location Source:	
Improvement Location Method:	
Supplier Comment:	
Spatial Status:	
--	--
Annular Space/Abandonment Sealing Record	
--	--
Plug ID:	1002757701
Layer:	
Plug From:	
Plug To:	
Plug Depth UOM:	
--	--
Method of Construction & Well Use	
--	--
Method Construction ID:	1002757700
Method Construction Code:	
Method Construction:	
Other Method Construction:	AIR PERCUSSION
--	--
Pipe Information	
--	--
Pipe ID:	1002757702
Casing Number:	0
Comment:	
Alt Name:	
--	--
Construction Record - Casing	
--	--
Casing ID:	1002757704
Layer:	
Open Hole or Material:	PLASTIC
Depth From:	
Depth To:	5
Casing Diameter:	
Casing Diameter UOM:	
Casing Depth UOM:	m
--	--
--	--
Construction Record - Screen	
--	--
Screen ID:	1002757703
Layer:	
Slot:	
Screen Top Depth:	5
Screen End Depth:	8
Screen Material:	
Screen Depth UOM:	m
Screen Diameter UOM:	
Screen Diameter:	
--	--
Well Yield Testing	
--	--
Pump Test ID:	1002757705
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	

Rate UOM:	
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	
--	--
Hole Diameter	
--	--
Hole ID:	1002757699
Diameter:	5
Depth From:	
Depth To:	8
Hole Depth UOM:	m
Hole Diameter UOM:	cm
--	--
--	--
Bore Hole ID:	1002757688
DP2BR:	
Code OB:	
Code OB Description:	
Open Hole:	
Date Completed:	11-MAR-09
Remarks:	
Zone:	18
East 83:	444923
North 83:	5027621
UTMRC:	3
UTMRC Description:	margin of error : 10 - 30 m
Location Method:	wwr
Org CS:	UTM83
Elevation:	66.19
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	
Improvement Location Source:	
Improvement Location Method:	
Supplier Comment:	
Spatial Status:	
--	--
Annular Space/Abandonment Sealing Record	
--	--
Plug ID:	1002757692
Layer:	
Plug From:	
Plug To:	
Plug Depth UOM:	
--	--
Method of Construction & Well Use	
--	--
Method Construction ID:	1002757691
Method Construction Code:	
Method Construction:	
Other Method Construction:	AIR PERCUSSION
--	--
Pipe Information	
--	--
Pipe ID:	1002757693
Casing Number:	0
Comment:	
Alt Name:	
--	--

Construction Record - Casing	
--	--
Casing ID:	1002757695
Layer:	
Open Hole or Material:	PLASTIC
Depth From:	
Depth To:	8.8
Casing Diameter:	
Casing Diameter UOM:	
Casing Depth UOM:	m
--	--
--	--
Construction Record - Screen	
--	--
Screen ID:	1002757694
Layer:	
Slot:	
Screen Top Depth:	8.8
Screen End Depth:	11.8
Screen Material:	
Screen Depth UOM:	m
Screen Diameter UOM:	
Screen Diameter:	
--	--
Well Yield Testing	
--	--
Pump Test ID:	1002757696
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	
Rate UOM:	
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	
--	--
Hole Diameter	
--	--
Hole ID:	1002757690
Diameter:	5
Depth From:	
Depth To:	11.8
Hole Depth UOM:	m
Hole Diameter UOM:	cm
--	--
--	--
Bore Hole ID:	1002757679
DP2BR:	
Code OB:	
Code OB Description:	
Open Hole:	
Date Completed:	10-MAR-09
Remarks:	
Zone:	18
East 83:	444941
North 83:	5027588
UTMRC:	3
UTMRC Description:	margin of error : 10 - 30 m
Location Method:	wwr

Org CS:	UTM83
Elevation:	65.39
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	
Improvement Location Source:	
Improvement Location Method:	
Supplier Comment:	
Spatial Status:	
--	--
Annular Space/Abandonment Sealing Record	
--	--
Plug ID:	1002757683
Layer:	
Plug From:	
Plug To:	
Plug Depth UOM:	
--	--
Method of Construction & Well Use	
--	--
Method Construction ID:	1002757682
Method Construction Code:	
Method Construction:	
Other Method Construction:	AIR PERCUSSION
--	--
Pipe Information	
--	--
Pipe ID:	1002757684
Casing Number:	0
Comment:	
Alt Name:	
--	--
Construction Record - Casing	
--	--
Casing ID:	1002757686
Layer:	
Open Hole or Material:	PLASTIC
Depth From:	
Depth To:	4.6
Casing Diameter:	
Casing Diameter UOM:	
Casing Depth UOM:	m
--	--
--	--
Construction Record - Screen	
--	--
Screen ID:	1002757685
Layer:	
Slot:	
Screen Top Depth:	4.6
Screen End Depth:	7.6
Screen Material:	
Screen Depth UOM:	m
Screen Diameter UOM:	
Screen Diameter:	
--	--
Well Yield Testing	
--	--
Pump Test ID:	1002757687
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Pumping Rate:					
Flowing Rate:					
Recommended Pump Rate:					
Levels UOM:					
Rate UOM:					
Water State After Test Code:					
Water State After Test:					
Pumping Test Method:					
Pumping Duration HR:					
Pumping Duration MIN:					
Flowing:					
--		--			
Hole Diameter					
--		--			
Hole ID:		1002757681			
Diameter:		5			
Depth From:					
Depth To:		7.6			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
--		--			
--		--			

29	***1 of 2***	***ENE/182.8***	***77.1***	***HYDRO OTTAWA LIMITED*** ***247 GLEBE*** ***OTTAWA ON K1S 2C8***	***GEN***

PO Box Num:	
Status:	
Country:	
Generator #:	ON8094774
Approval Yrs:	05
SIC Code:	221122
SIC Description:	Electric Power Distribution
--- Details ---	
Waste Code:	243
Waste Description:	PCB'S

29	***2 of 2***	***ENE/182.8***	***77.1***	***OTTAWA HYDRO*** ***247 GLEBE AVENUE*** ***OTTAWA ON K1S 2C8***	***GEN***

PO Box Num:	
Status:	
Country:	
Generator #:	ON0456605
Approval Yrs:	93,94,95,96,97,98,99,00,01
SIC Code:	4911
SIC Description:	ELECT. POWER SYS.
--- Details ---	
Waste Code:	251
Waste Description:	OIL SKIMMINGS & SLUDGES
+	
Waste Code:	252
Waste Description:	WASTE OILS & LUBRICANTS

30	***1 of 4***	***ESE/184.4***	***73.7***	***K&R Dental Laboratories Ltd.*** ***794 Bronson Ave*** ***Ottawa ON K1S 4G4***	***SCT***

Established:	01-AUG-92
Plant Size (ft²):	3000

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Employment:					
--- Details ---					
Description:		Medical Equipment and Supplies Manufacturing			
SIC/NAICS Code:		339110			
+					
Description:		Medical Equipment and Supplies Manufacturing			
SIC/NAICS Code:		339110			
30	2 of 4	ESE/184.4	73.7	K & R Dental Laboratories Ltd 794 Bronson Ave Ottawa ON K1S 4G4	SCT
Established:					
Plant Size (ft²):					
Employment:					
--- Details ---					
Description:		Medical Equipment and Supplies Manufacturing			
SIC/NAICS Code:		339110			
30	3 of 4	ESE/184.4	73.7	K & R Dental Laboratories Ltd. 794 Bronson Ave Ottawa ON K1S 4G4	SCT
Established:					
Plant Size (ft²):					
Employment:		25			
--- Details ---					
Description:		Medical Equipment and Supplies Manufacturing			
SIC/NAICS Code:		339110			
30	4 of 4	ESE/184.4	73.7	Shaw Laboratories 794 Bronson Ave Ottawa ON K1S 4G4	SCT
Established:					
Plant Size (ft²):					
Employment:		23			
--- Details ---					
Description:		Medical Equipment and Supplies Manufacturing			
SIC/NAICS Code:		339110			
31	1 of 58	WNW/186.8	66.4	PUBLIC WORKS & GOVT. SERVICES CANADA 615 BOOTH STREET OTTAWA CITY ON	CA
Certificate #:		8-4224-99-			
Application Year:		99			
Issue Date:		10/27/1999			
Approval Type:		Industrial air			
Status:		Approved			
Application Type:					
Client Name:					
Client Address:					
Client City:					
Client Postal Code:					
Project Description:		400KW EMERGENCY GENERATOR (Y2K)			
Contaminants:					
Emission Control:					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
31	2 of 58	WNW/186.8	66.4	GVT. OF CAN. - ENERGY MINES & RES.18-151 GEOLOGICAL SURVEY OF CANADA 601 BOOTH STREET OTTAWA ON K1A 0E8	GEN

PO Box Num:
Status:
Country:
Generator #: ON0269503
Approval Yrs: 94,95,96
SIC Code: 8129
SIC Description: OTHER PROTECT. SERV.

--- Details ---
Waste Code: 114
Waste Description: OTHER INORGANIC ACID WASTES
+
Waste Code: 121
Waste Description: ALKALINE WASTES - HEAVY METALS
+
Waste Code: 122
Waste Description: ALKALINE WASTES - OTHER METALS
+
Waste Code: 148
Waste Description: INORGANIC LABORATORY CHEMICALS
+
Waste Code: 211
Waste Description: AROMATIC SOLVENTS
+
Waste Code: 213
Waste Description: PETROLEUM DISTILLATES
+
Waste Code: 251
Waste Description: OIL SKIMMINGS & SLUDGES
+
Waste Code: 253
Waste Description: EMULSIFIED OILS
+
Waste Code: 263
Waste Description: ORGANIC LABORATORY CHEMICALS
+
Waste Code: 267
Waste Description: ORGANIC ACIDS

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
31	3 of 58	WNW/186.8	66.4	GVT. OF CAN. - NATURAL RESOURCES CANADA Room 721 601 Booth Street OTTAWA ON	GEN

PO Box Num:
Status:
Country:
Generator #: ON0269503
Approval Yrs: 2010
SIC Code: 911310
SIC Description: Federal Labour and Employment Services

--- Details ---
Waste Code: 148
Waste Description: INORGANIC LABORATORY CHEMICALS
+
Waste Code: 263
Waste Description: ORGANIC LABORATORY CHEMICALS
+

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

Waste Code: 122
Waste Description: ALKALINE WASTES - OTHER METALS
+
Waste Code: 146
Waste Description: OTHER SPECIFIED INORGANICS
+
Waste Code: 331
Waste Description: WASTE COMPRESSED GASES
+
Waste Code: 121
Waste Description: ALKALINE WASTES - HEAVY METALS
+
Waste Code: 253
Waste Description: EMULSIFIED OILS
+
Waste Code: 211
Waste Description: AROMATIC SOLVENTS
+
Waste Code: 112
Waste Description: ACID WASTE - HEAVY METALS
+
Waste Code: 267
Waste Description: ORGANIC ACIDS
+
Waste Code: 114
Waste Description: OTHER INORGANIC ACID WASTES
+
Waste Code: 145
Waste Description: PAINT/PIGMENT/COATING RESIDUES
+
Waste Code: 213
Waste Description: PETROLEUM DISTILLATES
+
Waste Code: 212
Waste Description: ALIPHATIC SOLVENTS
+
Waste Code: 251
Waste Description: OIL SKIMMINGS & SLUDGES

31	***4 of 58***	***WNW/186.8***	***66.4***	***BROOKFIELD JOHNSON CONTROLS*** ***601 Booth St.*** ***Ottawa ON***	***GEN***

PO Box Num:
Status:
Country:
Generator #: ON6935214
Approval Yrs: As of May 2015
SIC Code:
SIC Description:

--- Details ---
Waste Code: 145
Waste Description: Wastes from the use of pigments, coatings and paints

---

31	***5 of 58***	***WNW/186.8***	***66.4***	***GVT. OF CAN. - ENERGY MINES & RES.*** ***GEOLOGICAL SURVEY OF CANADA 601 BOOTH STREET*** ***OTTAWA ON K1A 0E8***	***GEN***

PO Box Num:
Status:
Country:
Generator #: ON0269503

Approval Yrs: 92,93,97
SIC Code: 8129
SIC Description: OTHER PROTECT. SERV.

--- Details ---
Waste Code: 114
Waste Description: OTHER INORGANIC ACID WASTES
+
Waste Code: 121
Waste Description: ALKALINE WASTES - HEAVY METALS
+
Waste Code: 122
Waste Description: ALKALINE WASTES - OTHER METALS
+
Waste Code: 148
Waste Description: INORGANIC LABORATORY CHEMICALS
+
Waste Code: 211
Waste Description: AROMATIC SOLVENTS
+
Waste Code: 213
Waste Description: PETROLEUM DISTILLATES
+
Waste Code: 251
Waste Description: OIL SKIMMINGS & SLUDGES
+
Waste Code: 253
Waste Description: EMULSIFIED OILS
+
Waste Code: 263
Waste Description: ORGANIC LABORATORY CHEMICALS
+
Waste Code: 267
Waste Description: ORGANIC ACIDS

31	*6 of 58*	*WNW/186.8*	*66.4*	***GVT. OF CAN. - NATURAL RESOURCES CANADA*** ***Room 721 601 Booth Street*** ***OTTAWA ON K1A 0E8***	***GEN***

PO Box Num:
Status:
Country:
Generator #: ON0269503
Approval Yrs: As of May 2015
SIC Code:
SIC Description:

--- Details ---
Waste Code: 212
Waste Description: Aliphatic solvents and residues
+
Waste Code: 331
Waste Description: Waste compressed gases including cylinders
+
Waste Code: 241
Waste Description: Halogenated solvents and residues
+
Waste Code: 146
Waste Description: Other specified inorganic sludges, slurries or solids
+
Waste Code: 263
Waste Description: Misc. waste organic chemicals
+
Waste Code: 112

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

Waste Description: Acid solutions - containing heavy metals
+
Waste Code: 148
Waste Description: Misc. wastes and inorganic chemicals
+
Waste Code: 252
Waste Description: Waste crankcase oils and lubricants

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
31	7 of 58	WNW/186.8	66.4	GVT. OF CAN.-ENERGY, MINES & RES. GEOLOGICAL COMMISSION OF CANADA 601 BOOTH ST. OTTAWA ON K1A 0E4	GEN

PO Box Num:
Status:
Country:
Generator #: ON0269508
Approval Yrs: 86,87,88,89,90
SIC Code: 0000
SIC Description: *** NOT DEFINED ***

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
31	8 of 58	WNW/186.8	66.4	GVT. OF CAN. - NATURAL RESOURCES CANADA GEOLOGICAL SURVEY OF CANADA 601 BOOTH STREET OTTAWA ON K1A 0E8	GEN

PO Box Num:
Status:
Country:
Generator #: ON0269503
Approval Yrs: 98,99,00,01,02,03,04,05,06,07,08
SIC Code: 8129
SIC Description: OTHER PROTECT. SERV.

--- Details ---
Waste Code: 212
Waste Description: ALIPHATIC SOLVENTS
+
Waste Code: 212
Waste Description: ALIPHATIC SOLVENTS
+
Waste Code: 145
Waste Description: PAINT/PIGMENT/COATING RESIDUES
+
Waste Code: 145
Waste Description: PAINT/PIGMENT/COATING RESIDUES
+
Waste Code: 112
Waste Description: ACID WASTE - HEAVY METALS
+
Waste Code: 146
Waste Description: OTHER SPECIFIED INORGANICS
+
Waste Code: 114
Waste Description: OTHER INORGANIC ACID WASTES
+
Waste Code: 121
Waste Description: ALKALINE WASTES - HEAVY METALS
+
Waste Code: 122
Waste Description: ALKALINE WASTES - OTHER METALS
+
Waste Code: 148

Waste Description: INORGANIC LABORATORY CHEMICALS
+
Waste Code: 211
Waste Description: AROMATIC SOLVENTS
+
Waste Code: 213
Waste Description: PETROLEUM DISTILLATES
+
Waste Code: 251
Waste Description: OIL SKIMMINGS & SLUDGES
+
Waste Code: 253
Waste Description: EMULSIFIED OILS
+
Waste Code: 263
Waste Description: ORGANIC LABORATORY CHEMICALS
+
Waste Code: 267
Waste Description: ORGANIC ACIDS
+
Waste Code: 331
Waste Description: WASTE COMPRESSED GASES

31	9 of 58	WNW/186.8	66.4	**GVT. OF CAN. - NATURAL RESOURCES CANADA** **Room 721 601 Booth Street** **OTTAWA ON**	GEN

PO Box Num:
Status:
Country:
Generator #: ON0269503
Approval Yrs: 2012
SIC Code: 911310
SIC Description: Federal Labour and Employment Services

--- Details ---
Waste Code: 213
Waste Description: PETROLEUM DISTILLATES
+
Waste Code: 148
Waste Description: INORGANIC LABORATORY CHEMICALS
+
Waste Code: 121
Waste Description: ALKALINE WASTES - HEAVY METALS
+
Waste Code: 212
Waste Description: ALIPHATIC SOLVENTS
+
Waste Code: 331
Waste Description: WASTE COMPRESSED GASES
+
Waste Code: 211
Waste Description: AROMATIC SOLVENTS
+
Waste Code: 114
Waste Description: OTHER INORGANIC ACID WASTES
+
Waste Code: 122
Waste Description: ALKALINE WASTES - OTHER METALS
+
Waste Code: 263
Waste Description: ORGANIC LABORATORY CHEMICALS
+
Waste Code: 112

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

Waste Description: ACID WASTE - HEAVY METALS
+
Waste Code: 146
Waste Description: OTHER SPECIFIED INORGANICS
+
Waste Code: 251
Waste Description: OIL SKIMMINGS & SLUDGES
+
Waste Code: 253
Waste Description: EMULSIFIED OILS
+
Waste Code: 145
Waste Description: PAINT/PIGMENT/COATING RESIDUES
+
Waste Code: 267
Waste Description: ORGANIC ACIDS

31	10 of 58	WNW/186.8	66.4	GVT. OF CAN.-ENERGY, MINES & RES. 18-249 GEOLOGICAL COMMISSION OF CANADA 601 BOOTH ST. OTTAWA ON K1A 0E4	GEN

PO Box Num:
Status:
Country:
Generator #: ON0269508
Approval Yrs: 92,93,94,95
SIC Code: 0008
SIC Description: EXEMPT

31	11 of 58	WNW/186.8	66.4	GVT. OF CAN. - ENERGY MINES & RES. GEOLOGICAL SURVEY OF CANADA 601 BOOTH ST. OTTAWA ON K1A 0E8	GEN

PO Box Num:
Status:
Country:
Generator #: ON0269503
Approval Yrs: 86,87,88,89,90
SIC Code: 8129
SIC Description: OTHER PROTECT. SERV.

--- Details ---
Waste Code: 114
Waste Description: OTHER INORGANIC ACID WASTES
+
Waste Code: 148
Waste Description: INORGANIC LABORATORY CHEMICALS
+
Waste Code: 211
Waste Description: AROMATIC SOLVENTS
+
Waste Code: 251
Waste Description: OIL SKIMMINGS & SLUDGES
+
Waste Code: 253
Waste Description: EMULSIFIED OILS
+
Waste Code: 263
Waste Description: ORGANIC LABORATORY CHEMICALS
+
Waste Code: 267
Waste Description: ORGANIC ACIDS

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
31	12 of 58	WNW/186.8	66.4	GVT. OF CAN. - NATURAL RESOURCES CANADA Room 721 601 Booth Street OTTAWA ON	GEN

PO Box Num:
Status:
Country:
Generator #: ON0269503
Approval Yrs: 2011
SIC Code: 911310
SIC Description: Federal Labour and Employment Services

--- Details ---
Waste Code: 122
Waste Description: ALKALINE WASTES - OTHER METALS
+
Waste Code: 112
Waste Description: ACID WASTE - HEAVY METALS
+
Waste Code: 331
Waste Description: WASTE COMPRESSED GASES
+
Waste Code: 212
Waste Description: ALIPHATIC SOLVENTS
+
Waste Code: 145
Waste Description: PAINT/PIGMENT/COATING RESIDUES
+
Waste Code: 213
Waste Description: PETROLEUM DISTILLATES
+
Waste Code: 263
Waste Description: ORGANIC LABORATORY CHEMICALS
+
Waste Code: 114
Waste Description: OTHER INORGANIC ACID WASTES
+
Waste Code: 251
Waste Description: OIL SKIMMINGS & SLUDGES
+
Waste Code: 146
Waste Description: OTHER SPECIFIED INORGANICS
+
Waste Code: 148
Waste Description: INORGANIC LABORATORY CHEMICALS
+
Waste Code: 253
Waste Description: EMULSIFIED OILS
+
Waste Code: 121
Waste Description: ALKALINE WASTES - HEAVY METALS
+
Waste Code: 211
Waste Description: AROMATIC SOLVENTS
+
Waste Code: 267
Waste Description: ORGANIC ACIDS

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
31	13 of 58	WNW/186.8	66.4	HEALTH AND WELFARE CANADA 601 BOOTH STREET (EMR) HEALTH UNIT #7, RM 136 OTTAWA ON K1A 0E4	GEN

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

PO Box Num:
Status:
Country:
Generator #: ON0095609
Approval Yrs: 98,99,00,01
SIC Code: 8635
SIC Description: PUB. HEALTH CLINICS

--- Details ---
Waste Code: 312
Waste Description: PATHOLOGICAL WASTES

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
31	14 of 58	WNW/186.8	66.4	GVT. OF CAN. - NATURAL RESOURCES CANADA Room 721 601 Booth Street OTTAWA ON	GEN

PO Box Num:
Status:
Country:
Generator #: ON0269503
Approval Yrs: 2009
SIC Code: 911310
SIC Description: Federal Labour and Employment Services

--- Details ---
Waste Code: 112
Waste Description: ACID WASTE - HEAVY METALS
+
Waste Code: 114
Waste Description: OTHER INORGANIC ACID WASTES
+
Waste Code: 121
Waste Description: ALKALINE WASTES - HEAVY METALS
+
Waste Code: 122
Waste Description: ALKALINE WASTES - OTHER METALS
+
Waste Code: 145
Waste Description: PAINT/PIGMENT/COATING RESIDUES
+
Waste Code: 146
Waste Description: OTHER SPECIFIED INORGANICS
+
Waste Code: 148
Waste Description: INORGANIC LABORATORY CHEMICALS
+
Waste Code: 211
Waste Description: AROMATIC SOLVENTS
+
Waste Code: 212
Waste Description: ALIPHATIC SOLVENTS
+
Waste Code: 213
Waste Description: PETROLEUM DISTILLATES
+
Waste Code: 251
Waste Description: OIL SKIMMINGS & SLUDGES
+
Waste Code: 253
Waste Description: EMULSIFIED OILS
+
Waste Code: 263
Waste Description: ORGANIC LABORATORY CHEMICALS

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

+
Waste Code: 267
Waste Description: ORGANIC ACIDS
+
Waste Code: 331
Waste Description: WASTE COMPRESSED GASES

---

31 | **15 of 58** | **WNW/186.8** | **66.4** | **HEALTH AND WELFARE CANADA**
HEALTH UNIT#7, RM. 136 601 BOOTH ST. (EMR)
OTTAWA ON K1A 0E4 | **GEN**

PO Box Num:
Status:
Country:
Generator #: ON0095609
Approval Yrs: 92,93,97
SIC Code: 8635
SIC Description: PUB. HEALTH CLINICS

--- Details ---
Waste Code: 312
Waste Description: PATHOLOGICAL WASTES

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31 | **16 of 58** | **WNW/186.8** | **66.4** | **Brookfield Global Integrated Solutions**
615 Booth Street
Ottawa ON K1A0E9 | **GEN**

PO Box Num:
Status: Registered
Country: Canada
Generator #: ON9682327
Approval Yrs: As of Sep 2016
SIC Code:
SIC Description:

--- Details ---
Waste Code: 112 C
Waste Description: Acid solutions - containing heavy metals
+
Waste Code: 122 C
Waste Description: Alkaline slutions - containing other metals and non-metals (not cyanide)
+
Waste Code: 121 C
Waste Description: Alkaline slutions - containing heavy metals
+
Waste Code: 146 T
Waste Description: Other specified inorganic sludges, slurries or solids
+
Waste Code: 145 L
Waste Description: Wastes from the use of pigments, coatings and paints
+
Waste Code: 148 L
Waste Description: Misc. wastes and inorganic chemicals
+
Waste Code: 148 C
Waste Description: Misc. wastes and inorganic chemicals
+
Waste Code: 252 L
Waste Description: Waste crankcase oils and lubricants
+
Waste Code: 213 I
Waste Description: Petroleum distillates
+
Waste Code: 263 I
Waste Description: Misc. waste organic chemicals

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

+
Waste Code: 243 D
Waste Description: PCB
+
Waste Code: 331 I
Waste Description: Waste compressed gases including cylinders

---

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
31	17 of 58	WNW/186.8	66.4	SNC Lavalin 615 Booth Street Ottawa ON	GEN

PO Box Num:
Status:
Country:
Generator #: ON9682327
Approval Yrs: 2012
SIC Code: 531310
SIC Description: Real Estate Property Managers

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
31	18 of 58	WNW/186.8	66.4	SNC Lavalin 615 Booth Street Ottawa ON	GEN

PO Box Num:
Status:
Country:
Generator #: ON9682327
Approval Yrs: 2013
SIC Code: 531310
SIC Description: REAL ESTATE PROPERTY MANAGERS

--- Details ---
Waste Code: 145
Waste Description: PAINT/PIGMENT/COATING RESIDUES

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
31	19 of 58	WNW/186.8	66.4	GVT. OF CAN. - NATURAL RESOURCES CANADA 615 BOOTH STREET OTTAWA ON	GEN

PO Box Num:
Status:
Country:
Generator #: ON0269504
Approval Yrs: 2013
SIC Code: 911310
SIC Description:

--- Details ---
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS
+
Waste Code: 264
Waste Description: PHOTOPROCESSING WASTES
+
Waste Code: 242
Waste Description: HALOGENATED PESTICIDES
+
Waste Code: 146
Waste Description: OTHER SPECIFIED INORGANICS
+
Waste Code: 213
Waste Description: PETROLEUM DISTILLATES

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

+
Waste Code: 148
Waste Description: INORGANIC LABORATORY CHEMICALS
+
Waste Code: 263
Waste Description: ORGANIC LABORATORY CHEMICALS
+
Waste Code: 112
Waste Description: ACID WASTE - HEAVY METALS
+
Waste Code: 145
Waste Description: PAINT/PIGMENT/COATING RESIDUES
+
Waste Code: 121
Waste Description: ALKALINE WASTES - HEAVY METALS
+
Waste Code: 212
Waste Description: ALIPHATIC SOLVENTS

31	20 of 58	WNW/186.8	66.4	**NATURAL RESOURCES CANADA** **615 BOOTH STREET** **OTTAWA ON**	GEN

PO Box Num:
Status:
Country:
Generator #: ON2560242
Approval Yrs: 2012
SIC Code: 531310
SIC Description: Real Estate Property Managers

--- Details ---
Waste Code: 112
Waste Description: ACID WASTE - HEAVY METALS
+
Waste Code: 145
Waste Description: PAINT/PIGMENT/COATING RESIDUES
+
Waste Code: 263
Waste Description: ORGANIC LABORATORY CHEMICALS
+
Waste Code: 243
Waste Description: PCBS
+
Waste Code: 122
Waste Description: ALKALINE WASTES - OTHER METALS
+
Waste Code: 121
Waste Description: ALKALINE WASTES - HEAVY METALS
+
Waste Code: 148
Waste Description: INORGANIC LABORATORY CHEMICALS
+
Waste Code: 113
Waste Description: ACID WASTE - OTHER METALS
+
Waste Code: 212
Waste Description: ALIPHATIC SOLVENTS
+
Waste Code: 146
Waste Description: OTHER SPECIFIED INORGANICS
+
Waste Code: 331
Waste Description: WASTE COMPRESSED GASES
+

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

Waste Code: 213
Waste Description: PETROLEUM DISTILLATES
+
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

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31 | 21 of 58 | WNW/186.8 | 66.4 | GVT. OF CAN. - NATURAL RESOURCES CANADA
615 BOOTH STREET
OTTAWA ON K1A 0E9 | GEN

PO Box Num:
Status:
Country:
Generator #: ON0269504
Approval Yrs: 02,03,04,05,06
SIC Code:
SIC Description:

--- Details ---
Waste Code: 146
Waste Description: OTHER SPECIFIED INORGANICS
+
Waste Code: 112
Waste Description: ACID WASTE - HEAVY METALS
+
Waste Code: 121
Waste Description: ALKALINE WASTES - HEAVY METALS
+
Waste Code: 145
Waste Description: PAINT/PIGMENT/COATING RESIDUES
+
Waste Code: 148
Waste Description: INORGANIC LABORATORY CHEMICALS
+
Waste Code: 212
Waste Description: ALIPHATIC SOLVENTS
+
Waste Code: 213
Waste Description: PETROLEUM DISTILLATES
+
Waste Code: 242
Waste Description: HALOGENATED PESTICIDES
+
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS
+
Waste Code: 263
Waste Description: ORGANIC LABORATORY CHEMICALS
+
Waste Code: 264
Waste Description: PHOTOPROCESSING WASTES

---

31 | 22 of 58 | WNW/186.8 | 66.4 | GVT. OF CAN. - NATURAL RESOURCES CANADA
615 BOOTH STREET
OTTAWA ON | GEN

PO Box Num:
Status:
Country:
Generator #: ON0269504
Approval Yrs: 2011
SIC Code: 911310

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

SIC Description: Federal Labour and Employment Services

--- Details ---

Waste Code: 263
Waste Description: ORGANIC LABORATORY CHEMICALS
+
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS
+
Waste Code: 121
Waste Description: ALKALINE WASTES - HEAVY METALS
+
Waste Code: 212
Waste Description: ALIPHATIC SOLVENTS
+
Waste Code: 148
Waste Description: INORGANIC LABORATORY CHEMICALS
+
Waste Code: 145
Waste Description: PAINT/PIGMENT/COATING RESIDUES
+
Waste Code: 242
Waste Description: HALOGENATED PESTICIDES
+
Waste Code: 146
Waste Description: OTHER SPECIFIED INORGANICS
+
Waste Code: 264
Waste Description: PHOTOPROCESSING WASTES
+
Waste Code: 112
Waste Description: ACID WASTE - HEAVY METALS
+
Waste Code: 213
Waste Description: PETROLEUM DISTILLATES

31	*23 of 58*	*WNW/186.8*	*66.4*	***GVT. OF CAN. - NATURAL RESOURCES CANADA*** ***615 BOOTH STREET*** ***OTTAWA ON***	***GEN***

PO Box Num:
Status:
Country:
Generator #: ON0269504
Approval Yrs: 2010
SIC Code: 911310
SIC Description: Federal Labour and Employment Services

--- Details ---

Waste Code: 112
Waste Description: ACID WASTE - HEAVY METALS
+
Waste Code: 242
Waste Description: HALOGENATED PESTICIDES
+
Waste Code: 264
Waste Description: PHOTOPROCESSING WASTES
+
Waste Code: 213
Waste Description: PETROLEUM DISTILLATES
+
Waste Code: 148
Waste Description: INORGANIC LABORATORY CHEMICALS
+

Waste Code:	252
Waste Description:	WASTE OILS & LUBRICANTS
+	
Waste Code:	145
Waste Description:	PAINT/PIGMENT/COATING RESIDUES
+	
Waste Code:	263
Waste Description:	ORGANIC LABORATORY CHEMICALS
+	
Waste Code:	212
Waste Description:	ALIPHATIC SOLVENTS
+	
Waste Code:	146
Waste Description:	OTHER SPECIFIED INORGANICS
+	
Waste Code:	121
Waste Description:	ALKALINE WASTES - HEAVY METALS

31	24 of 58	WNW/186.8	66.4	**GVT. OF CAN. - NATURAL RESOURCES CANADA** **615 BOOTH STREET** **OTTAWA ON**	GEN

PO Box Num:	
Status:	
Country:	
Generator #:	ON0269504
Approval Yrs:	2009
SIC Code:	911310
SIC Description:	Federal Labour and Employment Services

--- Details ---

Waste Code:	112
Waste Description:	ACID WASTE - HEAVY METALS
+	
Waste Code:	121
Waste Description:	ALKALINE WASTES - HEAVY METALS
+	
Waste Code:	145
Waste Description:	PAINT/PIGMENT/COATING RESIDUES
+	
Waste Code:	146
Waste Description:	OTHER SPECIFIED INORGANICS
+	
Waste Code:	148
Waste Description:	INORGANIC LABORATORY CHEMICALS
+	
Waste Code:	212
Waste Description:	ALIPHATIC SOLVENTS
+	
Waste Code:	213
Waste Description:	PETROLEUM DISTILLATES
+	
Waste Code:	242
Waste Description:	HALOGENATED PESTICIDES
+	
Waste Code:	252
Waste Description:	WASTE OILS & LUBRICANTS
+	
Waste Code:	263
Waste Description:	ORGANIC LABORATORY CHEMICALS
+	
Waste Code:	264
Waste Description:	PHOTOPROCESSING WASTES

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
31	25 of 58	WNW/186.8	66.4	GVT. OF CANADA - PUBLIC WORKS CANADIAN HYDROGRAPHIC SERV., 615 BOOTH C/O 140 PROMENADE DU PORTAGE, PHASE 4 OTTAWA ON K1A 0M3	GEN

PO Box Num:
Status:
Country:
Generator #: ON0144754
Approval Yrs: 89
SIC Code: 8129
SIC Description: OTHER PROTECT. SERV.

--- Details ---
Waste Code: 114
Waste Description: OTHER INORGANIC ACID WASTES
+
Waste Code: 122
Waste Description: ALKALINE WASTES - OTHER METALS
+
Waste Code: 264
Waste Description: PHOTOPROCESSING WASTES

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
31	26 of 58	WNW/186.8	66.4	GVT. OF CAN. - SEE & USE ON0269504 SURVEYS & MAPPING 615 BOOTH STREET OTTAWA ON K1A 0E9	GEN

PO Box Num:
Status:
Country:
Generator #: IB0269504
Approval Yrs: 86,87
SIC Code: 0000
SIC Description: *** NOT DEFINED ***

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
31	27 of 58	WNW/186.8	66.4	GVT. OF CAN. - NATURAL RESOURCES CANADA 615 BOOTH STREET GEOMATICS CANADA OTTAWA ON K1A 0E6	GEN

PO Box Num:
Status:
Country:
Generator #: ON0269504
Approval Yrs: 98,99,00,01
SIC Code: 8172
SIC Description: RES. CONS./IND. DEV.

--- Details ---
Waste Code: 112
Waste Description: ACID WASTE - HEAVY METALS
+
Waste Code: 121
Waste Description: ALKALINE WASTES - HEAVY METALS
+
Waste Code: 145
Waste Description: PAINT/PIGMENT/COATING RESIDUES
+
Waste Code: 148
Waste Description: INORGANIC LABORATORY CHEMICALS
+
Waste Code: 212
Waste Description: ALIPHATIC SOLVENTS

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

+
Waste Code: 213
Waste Description: PETROLEUM DISTILLATES
+
Waste Code: 242
Waste Description: HALOGENATED PESTICIDES
+
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS
+
Waste Code: 263
Waste Description: ORGANIC LABORATORY CHEMICALS
+
Waste Code: 264
Waste Description: PHOTOPROCESSING WASTES

31	28 of 58	WNW/186.8	66.4	**PUBLIC WORKS CANADA** **615 BOOTH STREET EMR-SURVEYS AND MAPPING** **OTTAWA ON K1A 0M3**	GEN

PO Box Num:
Status:
Country:
Generator #: ON0269516
Approval Yrs: 93,94,95,96,97,98,99,00,01
SIC Code: 8159
SIC Description: OTHER GEN. ADMIN.

--- Details ---
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS
+
Waste Code: 113
Waste Description: ACID WASTE - OTHER METALS
+
Waste Code: 212
Waste Description: ALIPHATIC SOLVENTS
+
Waste Code: 213
Waste Description: PETROLEUM DISTILLATES
+
Waste Code: 241
Waste Description: HALOGENATED SOLVENTS

31	29 of 58	WNW/186.8	66.4	**GVT. OF CAN.-SUPPLY AND SERVICES** **COMMUNICATIONS SERVICES 615 BOOTH ST.** **ROOM G-10** **OTTAWA ON K1A 0S7**	GEN

PO Box Num:
Status:
Country:
Generator #: ON0249610
Approval Yrs: 90
SIC Code: 8159
SIC Description: OTHER GEN. ADMIN.

--- Details ---
Waste Code: 213
Waste Description: PETROLEUM DISTILLATES
+
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
31	30 of 58	WNW/186.8	66.4	GVT. OF CAN. - NATURAL RESOURCES CANADA 615 BOOTH STREET OTTAWA ON K1A 0E9	GEN

PO Box Num:
Status:
Country:
Generator #: ON0269504
Approval Yrs: 2012
SIC Code: 911310
SIC Description: Federal Labour and Employment Services

--- Details ---
Waste Code: 148
Waste Description: INORGANIC LABORATORY CHEMICALS
+
Waste Code: 146
Waste Description: OTHER SPECIFIED INORGANICS
+
Waste Code: 242
Waste Description: HALOGENATED PESTICIDES
+
Waste Code: 121
Waste Description: ALKALINE WASTES - HEAVY METALS
+
Waste Code: 264
Waste Description: PHOTOPROCESSING WASTES
+
Waste Code: 112
Waste Description: ACID WASTE - HEAVY METALS
+
Waste Code: 145
Waste Description: PAINT/PIGMENT/COATING RESIDUES
+
Waste Code: 212
Waste Description: ALIPHATIC SOLVENTS
+
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS
+
Waste Code: 263
Waste Description: ORGANIC LABORATORY CHEMICALS
+
Waste Code: 213
Waste Description: PETROLEUM DISTILLATES

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
31	31 of 58	WNW/186.8	66.4	GVT. OF CAN. - ENERGY MINES & RES. SURVEYS & MAPPING 615 BOOTH STREET OTTAWA ON K1A 0E9	GEN

PO Box Num:
Status:
Country:
Generator #: ON0269504
Approval Yrs: 86,87,88
SIC Code: 8172
SIC Description: RES. CONS./IND. DEV.

--- Details ---
Waste Code: 148
Waste Description: INORGANIC LABORATORY CHEMICALS
+
Waste Code: 212

Waste Description: ALIPHATIC SOLVENTS
+
Waste Code: 213
Waste Description: PETROLEUM DISTILLATES
+
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS
+
Waste Code: 263
Waste Description: ORGANIC LABORATORY CHEMICALS
+
Waste Code: 264
Waste Description: PHOTOPROCESSING WASTES

31	32 of 58	WNW/186.8	66.4	NATURAL RESOURCES CANADA 615 BOOTH STREET OTTAWA ON	GEN

PO Box Num:
Status:
Country:
Generator #: ON2560242
Approval Yrs: 2011
SIC Code: 531310
SIC Description: Real Estate Property Managers

--- Details ---
Waste Code: 121
Waste Description: ALKALINE WASTES - HEAVY METALS
+
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS
+
Waste Code: 148
Waste Description: INORGANIC LABORATORY CHEMICALS
+
Waste Code: 113
Waste Description: ACID WASTE - OTHER METALS
+
Waste Code: 146
Waste Description: OTHER SPECIFIED INORGANICS
+
Waste Code: 112
Waste Description: ACID WASTE - HEAVY METALS
+
Waste Code: 122
Waste Description: ALKALINE WASTES - OTHER METALS
+
Waste Code: 212
Waste Description: ALIPHATIC SOLVENTS
+
Waste Code: 263
Waste Description: ORGANIC LABORATORY CHEMICALS
+
Waste Code: 243
Waste Description: PCBS
+
Waste Code: 213
Waste Description: PETROLEUM DISTILLATES
+
Waste Code: 145
Waste Description: PAINT/PIGMENT/COATING RESIDUES
+
Waste Code: 331
Waste Description: WASTE COMPRESSED GASES

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
31	33 of 58	WNW/186.8	66.4	Stantec Consulting Ltd. 615 BOOTH STREET OTTAWA ON	GEN

PO Box Num:
Status:
Country:
Generator #: ON5162599
Approval Yrs: 2009
SIC Code: 541710
SIC Description: Research and Development in the Physical Engineering and Life Sciences

--- Details ---
Waste Code: 221
Waste Description: LIGHT FUELS

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
31	34 of 58	WNW/186.8	66.4	NATURAL RESOURCES CANADA 615 BOOTH STREET GEOMATICS CANADA OTTAWA ON K1A 0E6	GEN

PO Box Num:
Status:
Country:
Generator #: ON0269504
Approval Yrs: 92,93,97
SIC Code: 8172
SIC Description: RES. CONS./IND. DEV.

--- Details ---
Waste Code: 121
Waste Description: ALKALINE WASTES - HEAVY METALS
+
Waste Code: 145
Waste Description: PAINT/PIGMENT/COATING RESIDUES
+
Waste Code: 148
Waste Description: INORGANIC LABORATORY CHEMICALS
+
Waste Code: 212
Waste Description: ALIPHATIC SOLVENTS
+
Waste Code: 213
Waste Description: PETROLEUM DISTILLATES
+
Waste Code: 242
Waste Description: HALOGENATED PESTICIDES
+
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS
+
Waste Code: 263
Waste Description: ORGANIC LABORATORY CHEMICALS
+
Waste Code: 264
Waste Description: PHOTOPROCESSING WASTES
+
Waste Code: 112
Waste Description: ACID WASTE - HEAVY METALS

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
31	35 of 58	WNW/186.8	66.4	BROOKFIELD JOHNSON CONTROLS 615 Booth Street Ottawa ON	GEN

PO Box Num:
Status:
Country:
Generator #: ON9682327
Approval Yrs: As of May 2015
SIC Code:
SIC Description:

--- Details ---
Waste Code: 146
Waste Description: Other specified inorganic sludges, slurries or solids
+
Waste Code: 145
Waste Description: Wastes from the use of pigments, coatings and paints
+
Waste Code: 213
Waste Description: Petroleum distillates
+
Waste Code: 252
Waste Description: Waste crankcase oils and lubricants
+
Waste Code: 112
Waste Description: Acid solutions - containing heavy metals
+
Waste Code: 263
Waste Description: Misc. waste organic chemicals
+
Waste Code: 243
Waste Description: PCB
+
Waste Code: 121
Waste Description: Alkaline slutions - containing heavy metals
+
Waste Code: 122
Waste Description: Alkaline slutions - containing other metals and non-metals (not cyanide)
+
Waste Code: 331
Waste Description: Waste compressed gases including cylinders

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31	***36 of 58***	***WNW/186.8***	***66.4***	***MAPPING AND CHARTING ESTABLISHMENT*** ***615 BOOTH STREET*** ***OTTAWA ON K0A 1K0***	***GEN***

PO Box Num:
Status:
Country:
Generator #: ON1932200
Approval Yrs: 94,95,96,97,98,99
SIC Code: 2849
SIC Description: OTHER PRINTING IND.

--- Details ---
Waste Code: 264
Waste Description: PHOTOPROCESSING WASTES

31	***37 of 58***	***WNW/186.8***	***66.4***	***NATURAL RESOURCES CANADA 18-167*** ***GEOMATICS CANADA 615 BOOTH STREET*** ***OTTAWA ON***	***GEN***

PO Box Num:
Status:
Country:
Generator #: ON0269504
Approval Yrs: 94,95,96
SIC Code: 8172

SIC Description: RES. CONS./IND. DEV.

--- Details ---

Waste Code: 112
Waste Description: ACID WASTE - HEAVY METALS
+
Waste Code: 121
Waste Description: ALKALINE WASTES - HEAVY METALS
+
Waste Code: 148
Waste Description: INORGANIC LABORATORY CHEMICALS
+
Waste Code: 212
Waste Description: ALIPHATIC SOLVENTS
+
Waste Code: 213
Waste Description: PETROLEUM DISTILLATES
+
Waste Code: 242
Waste Description: HALOGENATED PESTICIDES
+
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS
+
Waste Code: 263
Waste Description: ORGANIC LABORATORY CHEMICALS
+
Waste Code: 264
Waste Description: PHOTOPROCESSING WASTES

31	***38 of 58***	***WNW/186.8***	***66.4***	***PUBLIC WORKS CANADA*** ***CANADIAN HYDROGRAPHIC SERVICE 615*** ***BOOTH STREET*** ***OTTAWA ON K1A 0E6***	***GEN***

PO Box Num:
Status:
Country:
Generator #: ON0144754
Approval Yrs: 98,99,00,01
SIC Code: 8129
SIC Description: OTHER PROTECT. SERV.

--- Details ---

Waste Code: 114
Waste Description: OTHER INORGANIC ACID WASTES
+
Waste Code: 122
Waste Description: ALKALINE WASTES - OTHER METALS
+
Waste Code: 213
Waste Description: PETROLEUM DISTILLATES
+
Waste Code: 263
Waste Description: ORGANIC LABORATORY CHEMICALS
+
Waste Code: 264
Waste Description: PHOTOPROCESSING WASTES

31	***39 of 58***	***WNW/186.8***	***66.4***	***GVT. OF CAN.-SUPPLY AND SERVICES 17-385*** ***COMMUNICATIONS SERVICES 615 BOOTH ST.*** ***ROOM G-10*** ***OTTAWA ON K1A 0S7***	***GEN***

PO Box Num:

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

Status:
Country:
Generator #: ON0249610
Approval Yrs: 92,93,94,95,96,97
SIC Code: 8159
SIC Description: OTHER GEN. ADMIN.

--- Details ---
Waste Code: 213
Waste Description: PETROLEUM DISTILLATES
+
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

31	40 of 58	WNW/186.8	66.4	***NATIONAL DEFENSE*** ***MAPPING & CHARTING ESTABLISMENT 615*** ***BOOTH STREET*** ***OTTAWA ON K2P 0G2***	GEN

PO Box Num:
Status:
Country:
Generator #: ON2487206
Approval Yrs: 00,01,03,04,05,06
SIC Code: 8111
SIC Description: DEFENCE SERVICES

--- Details ---
Waste Code: 112
Waste Description: ACID WASTE - HEAVY METALS
+
Waste Code: 135
Waste Description: REACTIVE ANION WASTES
+
Waste Code: 145
Waste Description: PAINT/PIGMENT/COATING RESIDUES
+
Waste Code: 148
Waste Description: INORGANIC LABORATORY CHEMICALS
+
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS
+
Waste Code: 253
Waste Description: EMULSIFIED OILS
+
Waste Code: 262
Waste Description: DETERGENTS/SOAPS
+
Waste Code: 264
Waste Description: PHOTOPROCESSING WASTES
+
Waste Code: 265
Waste Description: GRAPHIC ART WASTES
+
Waste Code: 113
Waste Description: ACID WASTE - OTHER METALS
+
Waste Code: 121
Waste Description: ALKALINE WASTES - HEAVY METALS
+
Waste Code: 146
Waste Description: OTHER SPECIFIED INORGANICS

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
31	41 of 58	WNW/186.8	66.4	GVT. OF CANADA - PUBLIC WORKS 17-259 CDN. HYDROGRAPHIC SERV. 615 BOOTH ST. C/O 140 PROMENADE DU PORTAGE, PHASE 4 OTTAWA ON K1A 0M3	GEN

PO Box Num:
Status:
Country:
Generator #: ON0144754
Approval Yrs: 94,95,96
SIC Code: 8129
SIC Description: OTHER PROTECT. SERV.

--- Details ---
Waste Code: 114
Waste Description: OTHER INORGANIC ACID WASTES
+
Waste Code: 122
Waste Description: ALKALINE WASTES - OTHER METALS
+
Waste Code: 213
Waste Description: PETROLEUM DISTILLATES
+
Waste Code: 263
Waste Description: ORGANIC LABORATORY CHEMICALS
+
Waste Code: 264
Waste Description: PHOTOPROCESSING WASTES

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
31	42 of 58	WNW/186.8	66.4	GVT OF CAN-HEALTH&WELFARE CAN.MED.16-295 SER.BR.,HEALTH UNIT#7, RM. 136 601 BOOTH ST. (EMR), C/O 301 ELGIN ST OTTAWA ON K1A 0L3	GEN

PO Box Num:
Status:
Country:
Generator #: ON0095609
Approval Yrs: 94,95,96
SIC Code: 8635
SIC Description: PUB. HEALTH CLINICS

--- Details ---
Waste Code: 312
Waste Description: PATHOLOGICAL WASTES

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
31	43 of 58	WNW/186.8	66.4	Stantec Consulting Ltd. 615 BOOTH STREET OTTAWA ON	GEN

PO Box Num:
Status:
Country:
Generator #: ON5162599
Approval Yrs: 2010
SIC Code: 541710
SIC Description: Research and Development in the Physical Engineering and Life Sciences

--- Details ---
Waste Code: 221
Waste Description: LIGHT FUELS

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
31	44 of 58	WNW/186.8	66.4	MAPPING A(SEE & USE ON2487206)MENT 615 BOOTH STREET OTTAWA ON K0A 1K0	GEN

PO Box Num:
Status:
Country:
Generator #: ON1932200
Approval Yrs: 00,01
SIC Code: 2849
SIC Description: OTHER PRINTING IND.

--- Details ---
Waste Code: 264
Waste Description: PHOTOPROCESSING WASTES

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
31	45 of 58	WNW/186.8	66.4	PUBLIC WORKS CANADA 615 BOOTH STREET CANADIAN HYDROGRAPHIC SERVICE OTTAWA ON K1A 0E6	GEN

PO Box Num:
Status:
Country:
Generator #: ON0144754
Approval Yrs: 92,93,97
SIC Code: 8129
SIC Description: OTHER PROTECT. SERV.

--- Details ---
Waste Code: 114
Waste Description: OTHER INORGANIC ACID WASTES
+
Waste Code: 122
Waste Description: ALKALINE WASTES - OTHER METALS
+
Waste Code: 213
Waste Description: PETROLEUM DISTILLATES
+
Waste Code: 263
Waste Description: ORGANIC LABORATORY CHEMICALS
+
Waste Code: 264
Waste Description: PHOTOPROCESSING WASTES

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
31	46 of 58	WNW/186.8	66.4	GVT. OF CAN. - ENERGY MINES & RES. SVY, MAPPING & R.S., 615 BOOTH ST. C/O 140 PROMENADE DU PORTAGE IV OTTAWA ON K1A 0M3	GEN

PO Box Num:
Status:
Country:
Generator #: ON0269504
Approval Yrs: 89,90
SIC Code: 8172
SIC Description: RES. CONS./IND. DEV.

--- Details ---
Waste Code: 112
Waste Description: ACID WASTE - HEAVY METALS
+
Waste Code: 121
Waste Description: ALKALINE WASTES - HEAVY METALS
+

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

Waste Code: 148
Waste Description: INORGANIC LABORATORY CHEMICALS
+
Waste Code: 212
Waste Description: ALIPHATIC SOLVENTS
+
Waste Code: 213
Waste Description: PETROLEUM DISTILLATES
+
Waste Code: 242
Waste Description: HALOGENATED PESTICIDES
+
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS
+
Waste Code: 263
Waste Description: ORGANIC LABORATORY CHEMICALS
+
Waste Code: 264
Waste Description: PHOTOPROCESSING WASTES

31	47 of 58	WNW/186.8	66.4	**NATURAL RESOURCES CANADA** **615 BOOTH STREET** **OTTAWA ON**	GEN

PO Box Num:
Status:
Country:
Generator #: ON2560242
Approval Yrs: 2009
SIC Code: 531310
SIC Description: Real Estate Property Managers

--- Details ---
Waste Code: 113
Waste Description: ACID WASTE - OTHER METALS
+
Waste Code: 122
Waste Description: ALKALINE WASTES - OTHER METALS
+
Waste Code: 145
Waste Description: PAINT/PIGMENT/COATING RESIDUES
+
Waste Code: 148
Waste Description: INORGANIC LABORATORY CHEMICALS
+
Waste Code: 212
Waste Description: ALIPHATIC SOLVENTS
+
Waste Code: 213
Waste Description: PETROLEUM DISTILLATES
+
Waste Code: 263
Waste Description: ORGANIC LABORATORY CHEMICALS
+
Waste Code: 331
Waste Description: WASTE COMPRESSED GASES

31	48 of 58	WNW/186.8	66.4	**GVT. OF CAN.-(OUT OF BUSINESS)** **COMMUNICATIONS SERVICES 615 BOOTH ST.** **ROOM G-10** **OTTAWA ON K1A 0S7**	GEN

PO Box Num:

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

Status:
Country:
Generator #: ON0249610
Approval Yrs: 98
SIC Code: 8159
SIC Description: OTHER GEN. ADMIN.

--- Details ---
Waste Code: 213
Waste Description: PETROLEUM DISTILLATES
+
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
31	49 of 58	WNW/186.8	66.4	GVT. OF CANADA - PUBLIC WORKS CDN. HYDROGRAPHIC SERV. 615 BOOTH ST. C/O 140 PROMENADE DU PORTAGE, PHASE 4 OTTAWA ON K1A 0M3	GEN

PO Box Num:
Status:
Country:
Generator #: ON0144754
Approval Yrs: 90
SIC Code: 8129
SIC Description: OTHER PROTECT. SERV.

--- Details ---
Waste Code: 114
Waste Description: OTHER INORGANIC ACID WASTES
+
Waste Code: 122
Waste Description: ALKALINE WASTES - OTHER METALS
+
Waste Code: 213
Waste Description: PETROLEUM DISTILLATES
+
Waste Code: 263
Waste Description: ORGANIC LABORATORY CHEMICALS
+
Waste Code: 264
Waste Description: PHOTOPROCESSING WASTES

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
31	50 of 58	WNW/186.8	66.4	NATURAL RESOURCES CANADA 615 BOOTH STREET OTTAWA ON	GEN

PO Box Num:
Status:
Country:
Generator #: ON2560242
Approval Yrs: 2010
SIC Code: 531310
SIC Description: Real Estate Property Managers

--- Details ---
Waste Code: 212
Waste Description: ALIPHATIC SOLVENTS
+
Waste Code: 331
Waste Description: WASTE COMPRESSED GASES
+
Waste Code: 112
Waste Description: ACID WASTE - HEAVY METALS
+

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

Waste Code: 243
Waste Description: PCBS
+
Waste Code: 148
Waste Description: INORGANIC LABORATORY CHEMICALS
+
Waste Code: 213
Waste Description: PETROLEUM DISTILLATES
+
Waste Code: 122
Waste Description: ALKALINE WASTES - OTHER METALS
+
Waste Code: 263
Waste Description: ORGANIC LABORATORY CHEMICALS
+
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS
+
Waste Code: 146
Waste Description: OTHER SPECIFIED INORGANICS
+
Waste Code: 145
Waste Description: PAINT/PIGMENT/COATING RESIDUES
+
Waste Code: 113
Waste Description: ACID WASTE - OTHER METALS
+
Waste Code: 121
Waste Description: ALKALINE WASTES - HEAVY METALS

31	***51 of 58***	***WNW/186.8***	***66.4***	***ENERGY MINES & RESOURCES 615 BOOTH ST. OTTAWA ON***	***NPCB***

Company Code: O3091
Industry: Energy, Mines & Resources (EMR)
Site Status:
Transaction Date: 1/21/1991
Inspection Date: 9/13/1988

31	***52 of 58***	***WNW/186.8***	***66.4***	***Canadian Hydro Graphic Service 615 Booth St Floor 3 Room 311 Ottawa ON K1A 0E6***	***SCT***

Established: 01-AUG-40
Plant Size (ft²):
Employment:

--- Details ---
Description: Book Publishers
SIC/NAICS Code: 511130

31	***53 of 58***	***WNW/186.8***	***66.4***	***National Research Council of Canada; SNC Lavalin Engineers and Constructors 615 Booth Street Ottawa ON K1A 0E9***	***SPL***

Ref NO: 4577-9P7RKE
Contaminant Code: 38
Contaminant Name: REFRIGERANT GAS, N.O.S.
Contaminant Quantity: 111.6 kg
Incident Cause: Operator/Human error
Incident Dt: 2014/09/22

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

Incident Reason:	Other
Incident Summary:	National Resources Canada: R 123 to atm
MOE Reported Dt:	2014/09/22
Environmental Impact:	Not Anticipated
Nature of Impact:	Air Pollution
Receiving Medium:	
SAC Action Class:	Air Spills - Gases and Vapours
Sector Source Type:	Other
Site Municipality:	Ottawa

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
31	54 of 58	WNW/186.8	66.4	SNC Lavalin Engineers and Constructors 615 Booth St. Ottawa ON	SPL

Ref NO:	5776-9GNQMJ
Contaminant Code:	38
Contaminant Name:	REFRIGERANT GAS, N.O.S.
Contaminant Quantity:	0 other - see incident description
Incident Cause:	Leak/Break
Incident Dt:	2014/02/24
Incident Reason:	Equipment Failure
Incident Summary:	SNC Lavalin: Unknwn qty (100 + kg) R123 refrigerant to atm
MOE Reported Dt:	2014/02/25
Environmental Impact:	Not Anticipated
Nature of Impact:	Air Pollution
Receiving Medium:	
SAC Action Class:	Air Spills - Gases and Vapours
Sector Source Type:	Valve/Fitting/Piping
Site Municipality:	Ottawa

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
31	55 of 58	WNW/186.8	66.4	SNC-Lavalin ProFac Facilities Management 615 Booth Street Ottawa ON	SPL

Ref NO:	3065-7TBPTD
Contaminant Code:	
Contaminant Name:	
Contaminant Quantity:	
Incident Cause:	
Incident Dt:	
Incident Reason:	
Incident Summary:	SNC-Lavalin ProFac: 100 kg Refrigerant to Air
MOE Reported Dt:	6/24/2009
Environmental Impact:	Not Anticipated
Nature of Impact:	
Receiving Medium:	
SAC Action Class:	Air Spills - Gases and Vapours
Sector Source Type:	
Site Municipality:	Ottawa

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
31	56 of 58	WNW/186.8	66.4	SNC-Lavalin Profac Inc. 615 Booth St. Ottawa ON	SPL

Ref NO:	7114-7T6RF9
Contaminant Code:	
Contaminant Name:	FREON (CFC)
Contaminant Quantity:	
Incident Cause:	Valve / Fitting Leak Or Failure
Incident Dt:	
Incident Reason:	Equipment Failure

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

Incident Summary:	SNC-Lavalin Profac - possible freon spill.
MOE Reported Dt:	6/19/2009
Environmental Impact:	Not Anticipated
Nature of Impact:	
Receiving Medium:	
SAC Action Class:	Air Spills - Gases and Vapours
Sector Source Type:	Other
Site Municipality:	Ottawa

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
31	57 of 58	WNW/186.8	66.4	Natural Resources Canada<UNOFFICIAL> Mechanical Room, 615 Booth St Ottawa ON	SPL

Ref NO:	0033-89QM5W
Contaminant Code:	n/a
Contaminant Name:	REFRIGERANT GAS R12
Contaminant Quantity:	13.6 kg
Incident Cause:	
Incident Dt:	
Incident Reason:	
Incident Summary:	SNC Lavalin - R123 lost
MOE Reported Dt:	9/28/2010
Environmental Impact:	Not Anticipated
Nature of Impact:	
Receiving Medium:	
SAC Action Class:	Air Spills - Gases and Vapours
Sector Source Type:	
Site Municipality:	

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
31	58 of 58	WNW/186.8	66.4	OTTAWA ON	WWIS

Well ID:	7146321	**Lot:**	
Construction Date:		**Concession:**	
Primary Water Use:	Not Used	**Concession Name:**	
Sec. Water Use:		**Easting NAD83:**	
Final Well Status:	Abandoned Monitoring and Test Hole	**Northing NAD83:**	
Specific Capacity:		**Zone:**	
Municipality:	OTTAWA CITY	**UTM Reliability:**	
County:	OTTAWA-CARLETON		

Bore Hole Information

--	--
Bore Hole ID:	1002996105
DP2BR:	
Code OB:	
Code OB Description:	
Open Hole:	
Date Completed:	15-MAR-10
Remarks:	
Zone:	18
East 83:	444860
North 83:	5027732
UTMRC:	6
UTMRC Description:	margin of error : 300 m - 1 km
Location Method:	gcode
Org CS:	UTM83
Elevation:	
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	
Improvement Location Source:	

Improvement Location Method:	
Supplier Comment:	
Spatial Status:	
--	--
Overburden and Bedrock Materials Interval	
--	--
Formation ID:	1003149217
Layer:	
General Color:	
Most Common Material:	
Other Materials:	
Other Materials:	
Formation Top Depth:	
Formation End Depth:	
Formation End Depth UOM:	m
--	--
Annular Space/Abandonment Sealing Record	
--	--
Plug ID:	1003149219
Layer:	1
Plug From:	
Plug To:	
Plug Depth UOM:	m
--	--
Method of Construction & Well Use	
--	--
Method Construction ID:	1003149224
Method Construction Code:	6
Method Construction:	Boring
Other Method Construction:	DIAMOND
--	--
Pipe Information	
--	--
Pipe ID:	1003149216
Casing Number:	0
Comment:	
Alt Name:	
--	--
Construction Record - Casing	
--	--
Casing ID:	1003149221
Layer:	
Open Hole or Material:	
Depth From:	
Depth To:	
Casing Diameter:	
Casing Diameter UOM:	cm
Casing Depth UOM:	m
--	--
--	--
Construction Record - Screen	
--	--
Screen ID:	1003149222
Layer:	
Slot:	
Screen Top Depth:	
Screen End Depth:	
Screen Material:	
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	
--	--
Hole Diameter	

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

--	--
Hole ID:	1003149218
Diameter:	
Depth From:	
Depth To:	
Hole Depth UOM:	m
Hole Diameter UOM:	cm
--	--
--	--

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32 | **1 of 1** | **W/189.0** | **64.7** | **Ottawa ON** | **FCS**

Location:	Southeast Quadrant
Site Name:	Booth Street Complex
Departmental Id:	Booth Street Complex, Ottawa, ON
Site Id:	00023387
Property No.:	58480
Municipality:	Ottawa
Census Division:	Ottawa
Federal Electoral District:	Ottawa Centre
Nearest Populated Area:	Ottawa South
Longitude:	-75.7046
Latitude:	45.4008
Reporting Organization:	Department of Natural Resources
Reason for Involvement:	Federal Real Property
Est m³ Contaminated:	6295
Est Ha Contaminated:	
Est Tons Contaminated:	
Site Management Strategy:	Additional assessment
Highest Step Completed:	Detailed Testing Program
Action Plan:	
Additional Info:	
--- Details ---	
Medium:	Soil
Contaminant:	PAHs (polycyclic aromatic hydrocarbon)
+	
Medium:	Soil
Contaminant:	Metal, metalloid, and organometallic

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33 | **1 of 1** | **ESE/192.7** | **73.7** | **788 Bronson Ottawa ON K1S 4G4** | **EHS**

Postal Code:	
City:	
Address2:	
Address1:	
Provstate:	
Order No.:	20060206001
Addit. Info Ordered:	Fire Insur. Maps and/or Site Plans
Report Date:	2/9/2006
Report Type:	Custom Report
Search Radius (km):	0.25

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34 | **1 of 1** | **NE/195.8** | **75.6** | **ON** | **BORE**

Borehole ID:	809487	**Type:**	Borehole
Use:	Geotechnical/Geological Investigation	**Status:**	
Drill Method:		**UTM Zone:**	18
Easting:	445227.45	**Northing:**	5027827.36
Location Accuracy:		**Orig. Ground Elev m:**	-999.9

Elev. Reliability Note:		**DEM Ground Elev m:**	75.2
Total Depth m:	1.5	**Primary Name:**	AH.1
Township:		**Concession:**	
Lot:		**Municipality:**	
Completion Date:	13-FEB-1989	**Static Water Level:**	-999.9
Primary Water Use:		**Sec. Water Use:**	

--- Details ---

Stratum ID:	218600226	**Top Depth(m):**	0.0
Bottom Depth(m):	0.1	**Stratum Desc:**	Asphalt
+			
Stratum ID:	218600227	**Top Depth(m):**	0.1
Bottom Depth(m):	0.4	**Stratum Desc:**	Grey-Brown Crushed Stone
+			
Stratum ID:	218600228	**Top Depth(m):**	0.4
Bottom Depth(m):	1.0	**Stratum Desc:**	Red-Brown to Brown Sand Trace: Si Tr Gr
+			
Stratum ID:	218600229	**Top Depth(m):**	1.0
Bottom Depth(m):	1.5	**Stratum Desc:**	Grey Silt - Sand

---

35 **1 of 1** **NNE/202.5** **75.0** **ON** **BORE**

Borehole ID:	613104	**Type:**	Borehole
Use:		**Status:**	
Drill Method:		**UTM Zone:**	18
Easting:	445131	**Northing:**	5027902
Location Accuracy:		**Orig. Ground Elev m:**	74.1
Elev. Reliability Note:		**DEM Ground Elev m:**	74.3
Total Depth m:	4.4	**Primary Name:**	
Township:		**Concession:**	
Lot:		**Municipality:**	
Completion Date:	JUN-1971	**Static Water Level:**	-999.9
Primary Water Use:		**Sec. Water Use:**	

--- Details ---

Stratum ID:	218393730	**Top Depth(m):**	0.0
Bottom Depth(m):	0.8	**Stratum Desc:**	ARTIFICIAL.
+			
Stratum ID:	218393731	**Top Depth(m):**	0.8
Bottom Depth(m):	1.2	**Stratum Desc:**	UNSPECIFIED. DENSE.
+			
Stratum ID:	218393732	**Top Depth(m):**	1.2
Bottom Depth(m):	2.0	**Stratum Desc:**	UNSPECIFIED. DENSE.
+			
Stratum ID:	218393733	**Top Depth(m):**	2.0
Bottom Depth(m):	2.9	**Stratum Desc:**	BEDROCK.
+			
Stratum ID:	218393734	**Top Depth(m):**	2.9
Bottom Depth(m):	4.4	**Stratum Desc:**	BEDROCK. 00000 028 00025 020 00040 010 00000004000250130004004422 00025 011

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
36	1 of 1	SSE/206.7	68.0	Dow's Lake Rd. & Kippewa Drive Ottawa ON	EHS

Postal Code:
City:
Address2:
Address1:
Provstate:
Order No.: 20111026044
Addit. Info Ordered: Fire Insur. Maps and/or Site Plans; Aerial Photos; City Directory
Report Date: 11/4/2011
Report Type: Custom Report
Search Radius (km): 0.25

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
37	1 of 6	WNW/213.7	67.0	SNC Lavalin 601 Booth St. Ottawa ON	GEN

PO Box Num:
Status:
Country:
Generator #: ON6935214
Approval Yrs: 2013
SIC Code: 531310
SIC Description: REAL ESTATE PROPERTY MANAGERS

--- Details ---
Waste Code: 145
Waste Description: PAINT/PIGMENT/COATING RESIDUES

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
37	2 of 6	WNW/213.7	67.0	SNC Lavalin 601 Booth St. Ottawa ON	GEN

PO Box Num:
Status:
Country:
Generator #: ON6935214
Approval Yrs: 2012
SIC Code: 531310
SIC Description: Real Estate Property Managers

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
37	3 of 6	WNW/213.7	67.0	GVT. OF CAN. - NATURAL RESOURCES CANADA Room 721 601 Booth Street OTTAWA ON	GEN

PO Box Num:
Status:
Country:
Generator #: ON0269503
Approval Yrs: 2013
SIC Code: 911310
SIC Description:

--- Details ---
Waste Code: 146
Waste Description: OTHER SPECIFIED INORGANICS
+
Waste Code: 122
Waste Description: ALKALINE WASTES - OTHER METALS
+

Waste Code: 213
Waste Description: PETROLEUM DISTILLATES
+
Waste Code: 253
Waste Description: EMULSIFIED OILS
+
Waste Code: 251
Waste Description: OIL SKIMMINGS & SLUDGES
+
Waste Code: 145
Waste Description: PAINT/PIGMENT/COATING RESIDUES
+
Waste Code: 211
Waste Description: AROMATIC SOLVENTS
+
Waste Code: 121
Waste Description: ALKALINE WASTES - HEAVY METALS
+
Waste Code: 212
Waste Description: ALIPHATIC SOLVENTS
+
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS
+
Waste Code: 267
Waste Description: ORGANIC ACIDS
+
Waste Code: 114
Waste Description: OTHER INORGANIC ACID WASTES
+
Waste Code: 148
Waste Description: INORGANIC LABORATORY CHEMICALS
+
Waste Code: 263
Waste Description: ORGANIC LABORATORY CHEMICALS
+
Waste Code: 241
Waste Description: HALOGENATED SOLVENTS
+
Waste Code: 112
Waste Description: ACID WASTE - HEAVY METALS
+
Waste Code: 331
Waste Description: WASTE COMPRESSED GASES

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
37	4 of 6	WNW/213.7	67.0	***GVT. OF CAN. - NATURAL RESOURCES CANADA*** ***Room 721 601 Booth Street*** ***OTTAWA ON K1A 0E8***	GEN

PO Box Num:
Status: Registered
Country: Canada
Generator #: ON0269503
Approval Yrs: As of Sep 2016
SIC Code:
SIC Description:

--- Details ---
Waste Code: 112 C
Waste Description: Acid solutions - containing heavy metals
+
Waste Code: 122 C
Waste Description: Alkaline slutions - containing other metals and non-metals (not cyanide)
+

Waste Code:	145 I
Waste Description:	Wastes from the use of pigments, coatings and paints
+	
Waste Code:	146 T
Waste Description:	Other specified inorganic sludges, slurries or solids
+	
Waste Code:	212 L
Waste Description:	Aliphatic solvents and residues
+	
Waste Code:	212 I
Waste Description:	Aliphatic solvents and residues
+	
Waste Code:	213 I
Waste Description:	Petroleum distillates
+	
Waste Code:	148 T
Waste Description:	Misc. wastes and inorganic chemicals
+	
Waste Code:	148 R
Waste Description:	Misc. wastes and inorganic chemicals
+	
Waste Code:	148 I
Waste Description:	Misc. wastes and inorganic chemicals
+	
Waste Code:	148 C
Waste Description:	Misc. wastes and inorganic chemicals
+	
Waste Code:	148 B
Waste Description:	Misc. wastes and inorganic chemicals
+	
Waste Code:	148 A
Waste Description:	Misc. wastes and inorganic chemicals
+	
Waste Code:	252 L
Waste Description:	Waste crankcase oils and lubricants
+	
Waste Code:	241 H
Waste Description:	Halogenated solvents and residues
+	
Waste Code:	331 R
Waste Description:	Waste compressed gases including cylinders
+	
Waste Code:	331 I
Waste Description:	Waste compressed gases including cylinders
+	
Waste Code:	331 A
Waste Description:	Waste compressed gases including cylinders
+	
Waste Code:	263 I
Waste Description:	Misc. waste organic chemicals
+	
Waste Code:	263 C
Waste Description:	Misc. waste organic chemicals
+	
Waste Code:	263 B
Waste Description:	Misc. waste organic chemicals

37	***5 of 6***	***WNW/213.7***	***67.0***	***BROOKFIELD GLOBAL INTERGRATED SOLUTIONS*** ***601 Booth St.*** ***Ottawa ON K1A0E8***	***GEN***

PO Box Num:	
Status:	Registered
Country:	Canada

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

Generator #: ON6935214
Approval Yrs: As of Sep 2016
SIC Code:
SIC Description:

--- Details ---
Waste Code: 145 L
Waste Description: Wastes from the use of pigments, coatings and paints

---

37 | **6 of 6** | **WNW/213.7** | **67.0** | **601 Booth St. Ottawa ON** | **SPL**

Ref NO: 7621-9MZGLA
Contaminant Code: 24
Contaminant Name: ETHYLENE GLYCOL (ANTIFREEZE)
Contaminant Quantity: 8 L
Incident Cause: Leak/Break
Incident Dt: 2014/08/12
Incident Reason: Maintenance
Incident Summary: SNC Lavalin: 8 L of ethylene glycol to sani drain
MOE Reported Dt: 2014/08/15
Environmental Impact: Confirmed
Nature of Impact: Surface Water Pollution
Receiving Medium:
SAC Action Class: Land Spills
Sector Source Type: Pipeline/Components
Site Municipality: Ottawa

---

38 | **1 of 1** | **WSW/221.2** | **64.7** | **Carling Avenue from O-Train to Bronson Ave. Ottawa ON** | **EHS**

Postal Code:
City:
Address2:
Address1:
Provstate:
Order No.: 20100809023
Addit. Info Ordered:
Report Date: 8/19/2010
Report Type: Custom Report
Search Radius (km): 0.25

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39 | **1 of 1** | **NNE/226.6** | **74.0** | **Enbridge Gas Distribution Inc. 680 Bronson Ave Ottawa ON** | **SPL**

Ref NO: 8034-999KYU
Contaminant Code: 35
Contaminant Name: NATURAL GAS (METHANE)
Contaminant Quantity: 0 other - see incident description
Incident Cause: Leak/Break
Incident Dt: 2013/07/03
Incident Reason: Equipment Failure
Incident Summary: TSSA: above grd gas release, Media ended
MOE Reported Dt: 2013/07/03
Environmental Impact: Confirmed
Nature of Impact: Air Pollution
Receiving Medium:
SAC Action Class: TSSA - Fuel Safety Branch - Hydrocarbon Fuel Release/Spill
Sector Source Type: Pipeline/Components
Site Municipality: Ottawa

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
40	1 of 2	ESE/231.2	72.6	OTTAWA CITY, DESIGN & CONSTRUCTION DIV. SECOND AVE./BRONSON AVE., CSO OTTAWA ON	CA

Certificate #: 3-0387-98-
Application Year: 98
Issue Date: 5/12/1998
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
40	2 of 2	ESE/231.2	72.6	R.M. OF OTTAWA-CARLETON SECOND AVE/BRONSON AVE/BANK ST OTTAWA ON	CA

Certificate #: 7-0245-98-
Application Year: 98
Issue Date: 4/22/1998
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
41	1 of 1	N/233.7	74.9	ON	BORE

Borehole ID: 613109
Use:
Drill Method:
Easting: 445071
Location Accuracy:
Elev. Reliability Note:
Total Depth m: 3.7
Township:
Lot:
Completion Date: JUN-1971
Primary Water Use:
Type: Borehole
Status:
UTM Zone: 18
Northing: 5027942
Orig. Ground Elev m: 74.2
DEM Ground Elev m: 74.2
Primary Name:
Concession:
Municipality:
Static Water Level: -999.9
Sec. Water Use:

--- Details ---

Stratum ID: 218393750
Top Depth(m): 0.0
Bottom Depth(m): 1.0
Stratum Desc: ARTIFICIAL.
+
Stratum ID: 218393751
Top Depth(m): 1.0
Bottom Depth(m): 1.6
Stratum Desc: UNSPECIFIED. DENSE.
+

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

Stratum ID:	218393752	***Top Depth(m):***	1.6
Bottom Depth(m):	2.2	***Stratum Desc:***	BEDROCK.
+			
Stratum ID:	218393753	***Top Depth(m):***	2.2
Bottom Depth(m):	3.7	***Stratum Desc:***	BEDROCK. 00000 020 00032 008 00000005ENSE. 00040 010 00000004000250130004004 4

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42 ***1 of 1*** ***ESE/236.8*** ***72.9*** ***FIRST FUEL*** ***SPL***
812 BRONSON TANK TRUCK (CARGO)
OTTAWA CITY ON K1S 4G4

Ref NO:	45923
Contaminant Code:	
Contaminant Name:	
Contaminant Quantity:	
Incident Cause:	OTHER CONTAINER LEAK
Incident Dt:	1/22/1991
Incident Reason:	EQUIPMENT FAILURE
Incident Summary:	FIRST FUELS TANKER TRUCK-50 L FURNACE OIL TO STREET.
MOE Reported Dt:	1/22/1991
Environmental Impact:	POSSIBLE
Nature of Impact:	Soil contamination
Receiving Medium:	LAND
SAC Action Class:	
Sector Source Type:	
Site Municipality:	20101

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43 ***1 of 1*** ***NE/241.0*** ***74.0*** ***Hydro-Ottawa*** ***SPL***
272 Powell Street
Ottawa ON K1S 2A5

Ref NO:	4110-5NDTNA
Contaminant Code:	43
Contaminant Name:	NON-HAZARDOUS SOLID (N.O.S.)
Contaminant Quantity:	other - see incident description
Incident Cause:	
Incident Dt:	6/10/2003
Incident Reason:	
Incident Summary:	Unknown amt transformer oil to ground. Cleaning.
MOE Reported Dt:	6/10/2003
Environmental Impact:	Not Anticipated
Nature of Impact:	Soil Contamination
Receiving Medium:	Land
SAC Action Class:	Spills
Sector Source Type:	Transformer
Site Municipality:	Ottawa

Unplottable Summary

Total: 82 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA	OTTAWA CITY, DESIGN & CONSTRUCTION DIV.	BOOTH ST./LEBRETON ST. CSO	OTTAWA CITY ON	
CA	OTTAWA CITY, DESIGN & CONSTRUCTION DIV.	PLAZA BRIDGE STORM SEWERS	OTTAWA ON	
CA	PUBLIC WORKS CANADA	LABORATORY SERVICES	OTTAWA CITY ON	
CA	Taggart Residential Developments Ltd.		Ottawa ON	
CA	Taggart Construction Limited	Mobile Facility	Ottawa ON	
CA	Taggart Residential Developments Ltd.		Ottawa ON	
CA	Taggart Residential Developments Ltd.		Ottawa ON	
CA	Taggart Construction Limited	Manotick River Crossing and Connection	Ottawa ON	
CA	Ottawa-Carleton District School Board		Ottawa ON	
CA	Taggart Residential Developments Ltd.		Ottawa ON	
CA	Taggart Residential Developments Ltd.		Ottawa ON	
CA	Taggart Construction Limited	Hillside Gdns Long Island, Hartwell, Driscoll, Hillcrest, McLean, Claire, Jean P	Ottawa ON	
CA	City of Ottawa	Carling Ave	Ottawa ON	
CA	L.SIPOLINS	SOUTH OF CARLING AVE.	OTTAWA CITY ON	
CA	City of Ottawa	Carling Avenue (Road allownce)	Ottawa ON	
CA	R.M. OF OTTAWA-CARLETON TRANSPORTATION	BOOTH ST.	OTTAWA CITY ON	
CA	R.M. OF OTTAWA-CARLETON	BOOTH ST./LEBRETON ST.	OTTAWA CITY ON	

CONV	Taggart Construction Limited		Ottawa ON	
EBR	Taggart Construction Limited		Ottawa ON	
ECA	Glenn Guilbault	Bell Street	Ottawa ON	
ECA	Taggart Corporation Ltd.	Ottawa	ON	
ECA	City of Ottawa	Carling Avenue	Ottawa ON	
ECA	City of Ottawa	Bronson Ave between Laurier Ave and Arlington Ave and Gladstone Ave between Camb	Ottawa ON	
EHS		Carling Ave N Of, Grandview Rd	Ottawa ON	
EHS		Carling Ave N of Grandview Dr W	Ottawa ON	
GEN	GVT OF CAN-HEALTH&WELFARE CAN.MED.16-303	SER.BR,UNIT#25,RM B-16, CARLING AVE. K.W. NEATBY BLDG., C/O 301 ELGIN ST.	OTTAWA ON	K1A 0L3
GEN	GVT. OF CANADA - PUBLIC WORKS	BLDG 78 CENTRAL EXPERIMENTAL FARM C/O PLACE DU PORTAGE PHASE IV LEVEL 11 HULL	OTTAWA ON	K1A0M3
GEN	GVT. OF CANADA - PUBLIC WORKS	BLDG 78 CENTRAL EXPERIMENTAL FARM C/O PLACE DU PORTAGE PHASE IV LEVEL 11	OTTAWA ON	K1A 0M3
GEN	GVT. OF CANADA - PUBLIC WORKS	BLDG 78 CENTRAL EXPERIMENTAL FARM C/O PLACE DU PORTAGE PHASE IV LEVEL 11, HULL	OTTAWA ON	K1A0M3
GEN	GVT. OF CANADA - PUBLIC WORKS 18-279	NATIONAL AVIATION MUSEUM, ROCKCLIFFE AB C/O 140 PROMENADE DU PORTAGE, PHASE 1V	OTTAWA, ON	K1A 0M3
GEN	HEALTH AND WELFARE CANADA	SHIRLEY'S BAY (CRC) HEALTH UNIT #19 BUILDING #4, ROOM 100	OTTAWA ON	K2H 852
GEN	HEALTH AND WELFARE CANADA	SIR FREDERICK BANTING BLDG. HEALTH UNIT #34, ROOM 201	OTTAWA ON	K1A 0L3
GEN	City of Ottawa	O-Train Rail Corridor Brookfield & Gladstone Sidings	Ottawa ON	
GEN	GVT. OF CANADA - PUBLIC WORKS	NATIONAL AVIATION MUSEUM, ROCKCLIFFE AB C/O 140 PROMENADE DU PORTAGE, PHASE 1V	OTTAWA, ON	K1A 0M3
GEN	NATIONAL RESEARCH COUNCIL 18-109	PUBLIC WORKS CANADA ENV. SERVICES CFB OTTAWA BUILDINGS U61, U62, U66	OTTAWA ON	
GEN	PUBLIC WORKS CANADA - NATIONAL DEFENCE	CF PHOTO UNIT NRC MONTREAL ROAD, CAMPUS BLDG. M23	OTTAWA ON	K1A 0K2
GEN	GVT. OF CANADA - PUBLIC WORKS	BLDG 78 CENTRAL EXPERIMENTAL FARM C/O PLACE DU PORTAGE PHASE IV LEVEL 11 HULL	OTTAWA ON	K1A0M3

GEN	City of Ottawa	Bronson Avenue between Arlington - Laurier W	Ottawa ON	
GEN	City of Ottawa	Bronson Avenue between Arlington - Laurier W	Ottawa ON	
NPCB	PUBLIC WORKS CANADA	TUNNEY'S PASTURE COMPLEX CENTRAL HEA TI NG PLANT	OTTAWA ON	K1A 0M3
NPCB	PUBLIC WORKS CANADA	TUNNEY'S PASTURE COMPLEX BROOKE CLAXTON BUILD	Ottawa ON	
NPCB	PUBLIC WORKS CANADA	CENTRAL EXPERIMENTAL FARM; K W NEETBY BUILDING/ROO	OTTAWA ON	
NPCB	PUBLIC WORKS CANADA	TUNNEY'S PASTURE COMPLEX BROOKE CLAXTON BUILDING	OTTAWA ON	K1A 0M3
NPCB	PUBLIC WORKS CANADA	TUNNEY'S PASTURE COMPLEX	Ottawa ON	
SPL	HOTEL/MOTEL	CARLING AVENUE (N.O.S.)	OTTAWA CITY ON	
SPL	OC TRANSPO	CARLING AVE. BETWEE COLE AVE. & MAITLAND AVE. MOTOR VEHICLE (OPERATING FLUID)	OTTAWA CITY ON	
SPL	CONSTRUCTION COMPANY	BRONSON AVENUE AT RIDEAU RIVER.	OTTAWA CITY ON	
SPL	O.C. TRANSPO	ON CARLING AVE. IN BETWEEN PARKDALE & HOLLAND ST. OTTAWA SITE 1500 ST. LAURENT BOULEVARD	OTTAWA CITY ON	
SPL		Carling Ave, EB and Melrose (centre of intersection)	Ottawa ON	
SPL	Industry Canada - Communications Research Centre	Carling Avenue (Between Moody and March Road)	Ottawa ON	
SPL	Enbridge Gas Distribution Inc.	Bronson Avenue near Fourth Ave.	Ottawa ON	
SPL		RIDEAU RIVER, AT BRONSON AVE NEAR \	OTTAWA CITY ON	
SPL		Bronson Ave	Ottawa ON	
SPL	LECLAIR FUELS LTD.	BRONSON AVENUE TANK TRUCK (CARGO)	OTTAWA CITY ON	
SPL	City of Ottawa	Bronson St E, north of Catherine St	Ottawa ON	
SPL		Graham Creek outfall near Carling Av.<UNOFFICIAL>	Ottawa ON	
SPL	PUC	BOOTH STREET AT TRANSITWAY WHERE ALBERT AND SLATER JOIN MOTOR VEHICLE (OPERATING FLUID)	OTTAWA CITY ON	
SPL	Deep Foundations; SNC-Lavalin Constructors (Pacific) Inc.	Boothe Street Bridge Pier #1 @ transit way	Ottawa ON	

SPL	Taggart Construction Limited	Field adjacent to Findlay Creek<UNOFFICIAL>	Ottawa ON
SPL	City of Ottawa	CARLING AVE., IN FRONT OF WESTGATE SHOPPING CENTRE<UNOFFICIAL>	Ottawa ON
SPL		Carling Ave near Woodroffe CARLING AVE<UNOFFICIAL>	Ottawa ON
SPL	OTTAWA TRANSIT	CARLING AVENUE BUS	OTTAWA ON
SPL	PUBLIC WORKS CANADA	VARIOUS LOCATION GOVERNMENT BUILDING OR PROPERTY	OTTAWA CITY ON
SPL	FIRST FUEL	TANK TRUCK (CARGO)	OTTAWA CITY ON
SPL	TAGGART SERVICES	TRAILER IN YARD TRANSPORT TRUCK (CARGO)	OTTAWA CITY ON
SPL	DEPT OF NATIONAL DEFENSE	AIRPORT (MILITARY RAMP) AIRCRAFT	OTTAWA CITY ON
SPL	DEPT OF NATIONAL DEFENSE	OTTAWA AIRPORT AIRCRAFT	OTTAWA CITY ON
SPL	DEPARTMENT OF NATIONAL DEFENSE	ROCKCLIFFE SITE FUEL STORAGE TANK	OTTAWA CITY ON
SPL	OTTAWA-CARLETON, R.M. OF	OTTAWA RIVER, FROM TRIBUTARY AT THE BOOTH ST. REGULATOR SANITARY SEWER SYSTEM	OTTAWA CITY ON
SPL	City of Ottawa	Booth Street	Ottawa ON
SPL	OTTAWA-CARLETON, R.M. OF	BOOTH ST GATE SANITARY SEWER SYSTEM	OTTAWA CITY ON
SPL	OTTAWA-CARLETON, R.M. OF	ON THE TRANSITWAY EASTBOUND AT BOOTH AND LEBRETON MOTOR VEHICLE (OPERATING FLUID)	OTTAWA CITY ON
SPL	Ottawa Hydro <UNOFFICIAL>	ON BELL ST. E. OF WESTRIDGE DR. ACROSS FROM LOT 173 IN STITTSVILLE <UNOFFICIAL>	Ottawa ON
SPL	Taggart Construction Limited	Closest accessible street is the south end of Kelly Farm Dr.	Ottawa ON
SPL	PUBLIC WORKS CANADA	TILLEY BUILDING CONFEDERATION HEIGHTS	OTTAWA CITY ON
SPL	DEPARTMENT OF NATIONAL DEFENSE	DND UPLANDS AIR BASE, HANGERS # 17, 18 & 19. TRANSFORMER	OTTAWA CITY ON
SPL	Taggart Construction Limited	Findlay Creek Subdivision	Ottawa ON
SPL	DEPARTMENT OF NATIONAL DEFENSE	CONNAUGHT RANGES & TRAINING CENTRE - NATIONAL DEFENSE SITE	OTTAWA CITY ON
SPL		SNC Lavalin Profac	Ottawa ON

SPL	TRANSPORT TRUCK	HWY 16 MOTOR VEHICLE (OPERATING FLUID)	OTTAWA CITY ON
SPL	HEATING OIL TANK	FARM OFF HWY 16 PETROLEUM SECTOR _ONLY_	OTTAWA-CARLETON R.M. ON
SPL	NATIONAL DEFENCE	SHERLY'S BAY (PROPERTY) OFF CARLING AVE. FUEL STORAGE TANK	OTTAWA CITY ON

Unplottable Report

Site: ***OTTAWA CITY, DESIGN & CONSTRUCTION DIV.***
BOOTH ST./LEBRETON ST. CSO OTTAWA CITY ON

Database: ***CA***

Certificate #:	3-0216-99-
Application Year:	99
Issue Date:	4/23/1999
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***OTTAWA CITY, DESIGN & CONSTRUCTION DIV.***
PLAZA BRIDGE STORM SEWERS OTTAWA ON

Database: ***CA***

Certificate #:	3-0318-98-
Application Year:	98
Issue Date:	4/30/1998
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***PUBLIC WORKS CANADA***
LABORATORY SERVICES OTTAWA CITY ON

Database: ***CA***

Certificate #:	8-4116-87-
Application Year:	87
Issue Date:	8/26/1987
Approval Type:	Industrial air
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	LAB EXHAUST
Contaminants:	Chromium (Di-, Tri-, Hexavalent Forms), Other Organic Compounds, Methyl Alcohol, Hexane, Other Organic Compounds, Other Organic Compounds, Cyclohexane
Emission Control:	Absolute Filters

Site: ***Taggart Residential Developments Ltd.***

Database: ***CA***

Ottawa ON

Certificate #: 0092-6MUKH2
Application Year: 2006
Issue Date: 3/13/2006
Approval Type: Municipal and Private Sewage Works
Status: Revoked and/or Replaced
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Taggart Construction Limited***
Mobile Facility Ottawa ON

Database: ***CA***

Certificate #: 0636-7KEL2F
Application Year: 2008
Issue Date: 11/19/2008
Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Taggart Residential Developments Ltd.***
Ottawa ON

Database: ***CA***

Certificate #: 1047-6MPLMW
Application Year: 2006
Issue Date: 3/24/2006
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Taggart Residential Developments Ltd.***
Ottawa ON

Database: ***CA***

Certificate #: 1090-89DRC4
Application Year: 2010
Issue Date: 9/23/2010
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:

Project Description:
Contaminants:
Emission Control:

Site: ***Taggart Construction Limited***
Manotick River Crossing and Connection Ottawa ON

Database: ***CA***

Certificate #: 1811-7Q2HVN
Application Year: 2009
Issue Date: 3/20/2009
Approval Type: Industrial Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Ottawa-Carleton District School Board***
Ottawa ON

Database: ***CA***

Certificate #: 3668-7ZNLYJ
Application Year: 2010
Issue Date: 2/11/2010
Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Taggart Residential Developments Ltd.***
Ottawa ON

Database: ***CA***

Certificate #: 4595-77ZKND
Application Year: 2007
Issue Date: 10/15/2007
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Taggart Residential Developments Ltd.***
Ottawa ON

Database: ***CA***

Certificate #: 7167-6SJU4P
Application Year: 2006
Issue Date: 8/17/2006

Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Taggart Construction Limited*** ***Database:*** ***CA***
Hillside Gdns Long Island, Hartwell, Driscoll, Hillcrest, McLean, Claire, Jean P Ottawa ON

Certificate #: 7701-7PURU5
Application Year: 2009
Issue Date: 3/20/2009
Approval Type: Industrial Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***City of Ottawa*** ***Database:*** ***CA***
Carling Ave Ottawa ON

Certificate #: 2472-8GRQTN
Application Year: 2011
Issue Date: 5/20/2011
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***L.SIPOLINS*** ***Database:*** ***CA***
SOUTH OF CARLING AVE. OTTAWA CITY ON

Certificate #: 7-1008-85-006
Application Year: 85
Issue Date: 11/15/85
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***City of Ottawa***
Carling Avenue (Road allownce) Ottawa ON

Database: ***CA***

Certificate #: 3615-6QHRAR
Application Year: 2006
Issue Date: 6/13/2006
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***R.M. OF OTTAWA-CARLETON TRANSPORTATION***
BOOTH ST. OTTAWA CITY ON

Database: ***CA***

Certificate #: 7-1059-88-
Application Year: 88
Issue Date: 7/13/1988
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***R.M. OF OTTAWA-CARLETON***
BOOTH ST./LEBRETON ST. OTTAWA CITY ON

Database: ***CA***

Certificate #: 7-0124-99-
Application Year: 99
Issue Date: 3/24/1999
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Taggart Construction Limited***
Ottawa ON

Database: ***CONV***

File No.: 012802
Publication Title:
Publication City:
Url:
Crown Brief No.:
Ministry District:
Region:
Description: Taggart Construction Limited, Paterson Group Inc. and Robert Passmore have been fined $5,000 each,

totalling $15,000 plus a victim fine surcharge, after pleading guilty on January 15, 2009 to violations under the Ontario Water Resources Act. Taggart Construction Limited and Paterson Group Inc. were convicted of failing to comply with a Provincial Officer Order by taking more than 50,000 litres of water per day, and Mr. Passmore was convicted of giving false or misleading information to the ministry. The parties were given six months to pay the fine. The Court heard that Taggart Construction Limited was contracted by a developer to install municipal services at a subdivision in Ottawa which required dewatering activities. After being issued a Provincial Officer Order to restrict water taking activities to below 50,000 litres per day until a permit had been obtained, Taggart hired Paterson Group Inc. to submit an application for the permit. Taggart then pumped over 50,000 litres of water based on information provided by Paterson Group employee, Mr. Passmore, that the go ahead to pump had been given when a permit had yet to be issued. In an interview with ministry investigators, Mr. Passmore denied giving Taggart verbal approval to pump in excess of 50,000 litres per day. Taggart Construction Limited, Paterson Group Inc. and Mr. Passmore were charged following an investigation by the Ministry of the Environment's Investigations and Enforcement Branch.

--- Details ---

Publication Date:	
Date Charged:	January 15, 2009
Count:	1
Act:	OWRA
Fine:	$5,000
Act/Regulation/Section:	OWRA
Charge Disposition:	fine, victim fine surcharge

Site: ***Taggart Construction Limited***
Ottawa ON

Database: ***EBR***

Year:	2007
Date:	
EBR Registry No.:	IA07E0165
Ministry Ref. No.:	8556-6XWUA3
Notice Type:	Instrument Proposal
Instrument Type:	Approval for discharge into the natural environment other than water (i.e. Air) - EPA s. 9
Proposal Date:	
Location:	Mobile Facility Ottawa Ontario
Proponent Address:	3187 Albion Rd S Ottawa Ontario K1V 8Y3

Site: ***Glenn Guilbault***
Bell Street Ottawa ON

Database: ***ECA***

Record Type:	
PDF URL:	
Full Address:	Bell Street City of Ottawa
CofA Number:	6844-9PALMX
Date:	9/26/14
Status:	Approved
Project Type:	Municipal and Private Sewage

Site: ***Taggart Corporation Ltd.***
Ottawa ON

Database: ***ECA***

Record Type:	
PDF URL:	
Full Address:	
CofA Number:	1174-96MSDF
Date:	19-APR-13
Status:	Approved
Project Type:	Industrial Sewage

Site: ***City of Ottawa***
Carling Avenue Ottawa ON

Database: ***ECA***

Record Type:

PDF URL:
Full Address: Carling Avenue
CofA Number: 3723-9ATJC6
Date: 30-AUG-13
Status: Approved
Project Type: Municipal and Private Sewage

Site: ***City of Ottawa***
Bronson Ave between Laurier Ave and Arlington Ave and Gladstone Ave between Camb Ottawa ON

Database: ***ECA***

Record Type:
PDF URL:
Full Address:
CofA Number: 3535-8T9LDY
Date: 4/12/2012
Status: Approved
Project Type: Municipal and Private Sewage

Site:
Carling Ave N Of, Grandview Rd Ottawa ON

Database: ***EHS***

Postal Code:
City:
Address2:
Address1:
Provstate:
Order No.: 20051020002
Addit. Info Ordered:
Report Date: 10/18/2005
Report Type: Site Report
Search Radius (km): 0.25

Site:
Carling Ave N of Grandview Dr W Ottawa ON

Database: ***EHS***

Postal Code:
City:
Address2:
Address1:
Provstate:
Order No.: 20051017043
Addit. Info Ordered:
Report Date: 10/18/2005
Report Type: Site Report
Search Radius (km): 0.25

Site: ***GVT OF CAN-HEALTH&WELFARE CAN.MED.16-303***
SER.BR,UNIT#25,RM B-16, CARLING AVE. K.W. NEATBY BLDG., C/O 301 ELGIN ST. OTTAWA ON K1A 0L3

Database: ***GEN***

PO Box Num:
Status:
Country:
Generator #: ON0095617
Approval Yrs: 92,93,94,95,96,97
SIC Code: 8635
SIC Description: PUB. HEALTH CLINICS

--- Details ---
Waste Code: 312
Waste Description: PATHOLOGICAL WASTES

Site: ***GVT. OF CANADA - PUBLIC WORKS***
BLDG 78 CENTRAL EXPERIMENTAL FARM C/O PLACE DU PORTAGE PHASE IV LEVEL 11 HULL OTTAWA ON K1A0M3

Database: ***GEN***

PO Box Num:
Status:
Country:
Generator #: ON0144725
Approval Yrs: 89
SIC Code: 4999
SIC Description: OTHER UTILITY IND.

--- Details ---
Waste Code: 146
Waste Description: OTHER SPECIFIED INORGANICS
+
Waste Code: 221
Waste Description: LIGHT FUELS
+
Waste Code: 222
Waste Description: HEAVY FUELS

Site: ***GVT. OF CANADA - PUBLIC WORKS***
BLDG 78 CENTRAL EXPERIMENTAL FARM C/O PLACE DU PORTAGE PHASE IV LEVEL 11 OTTAWA ON K1A 0M3

Database: ***GEN***

PO Box Num:
Status:
Country:
Generator #: ON0144725
Approval Yrs: 86,90
SIC Code: 0000
SIC Description: *** NOT DEFINED ***

--- Details ---
Waste Code: 145
Waste Description: PAINT/PIGMENT/COATING RESIDUES
+
Waste Code: 146
Waste Description: OTHER SPECIFIED INORGANICS
+
Waste Code: 221
Waste Description: LIGHT FUELS
+
Waste Code: 222
Waste Description: HEAVY FUELS
+
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

Site: ***GVT. OF CANADA - PUBLIC WORKS***
BLDG 78 CENTRAL EXPERIMENTAL FARM C/O PLACE DU PORTAGE PHASE IV LEVEL 11, HULL OTTAWA ON K1A0M3

Database: ***GEN***

PO Box Num:
Status:
Country:
Generator #: ON0144725
Approval Yrs: 87
SIC Code: 0000
SIC Description: *** NOT DEFINED ***

Site: ***GVT. OF CANADA - PUBLIC WORKS 18-279***
NATIONAL AVIATION MUSEUM, ROCKCLIFFE AB C/O 140 PROMENADE DU PORTAGE, PHASE 1V OTTAWA, ON K1A 0M3

Database: ***GEN***

PO Box Num:
Status:
Country:
Generator #: ON0129409
Approval Yrs: 94,95
SIC Code: 8551
SIC Description: MUSEUMS/ARCHIVES

--- Details ---
Waste Code: 148
Waste Description: INORGANIC LABORATORY CHEMICALS
+
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS
+
Waste Code: 263
Waste Description: ORGANIC LABORATORY CHEMICALS
+
Waste Code: 122
Waste Description: ALKALINE WASTES - OTHER METALS
+
Waste Code: 145
Waste Description: PAINT/PIGMENT/COATING RESIDUES

Site: ***HEALTH AND WELFARE CANADA***
SHIRLEY'S BAY (CRC) HEALTH UNIT #19 BUILDING #4, ROOM 100 OTTAWA ON K2H 852

Database: ***GEN***

PO Box Num:
Status:
Country:
Generator #: ON0095614
Approval Yrs: 98
SIC Code: 8635
SIC Description: PUB. HEALTH CLINICS

--- Details ---
Waste Code: 312
Waste Description: PATHOLOGICAL WASTES

Site: ***HEALTH AND WELFARE CANADA***
SIR FREDERICK BANTING BLDG. HEALTH UNIT #34, ROOM 201 OTTAWA ON K1A 0L3

Database: ***GEN***

PO Box Num:
Status:
Country:
Generator #: ON0095621
Approval Yrs: 98
SIC Code: 8635
SIC Description: PUB. HEALTH CLINICS

--- Details ---
Waste Code: 312
Waste Description: PATHOLOGICAL WASTES

Site: ***City of Ottawa***
O-Train Rail Corridor Brookfield & Gladstone Sidings Ottawa ON

Database: ***GEN***

PO Box Num:
Status:
Country:
Generator #: ON8846477
Approval Yrs: 2013
SIC Code: 482114
SIC Description:

--- Details ---
Waste Code: 251
Waste Description: OIL SKIMMINGS & SLUDGES
+
Waste Code: 221
Waste Description: LIGHT FUELS

Site: ***GVT. OF CANADA - PUBLIC WORKS***
NATIONAL AVIATION MUSEUM, ROCKCLIFFE AB C/O 140 PROMENADE DU PORTAGE, PHASE 1V OTTAWA, ON K1A 0M3

Database: ***GEN***

PO Box Num:
Status:
Country:
Generator #: ON0129409
Approval Yrs: 86,87,88,89,90
SIC Code: 0000
SIC Description: *** NOT DEFINED ***

--- Details ---
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

Site: ***NATIONAL RESEARCH COUNCIL 18-109***
PUBLIC WORKS CANADA ENV. SERVICES CFB OTTAWA BUILDINGS U61, U62, U66 OTTAWA ON

Database: ***GEN***

PO Box Num:
Status:
Country:
Generator #: ON0195803
Approval Yrs: 92,93,94,95,96,97
SIC Code: 8176
SIC Description: RESEARCH ADMIN.

--- Details ---
Waste Code: 112
Waste Description: ACID WASTE - HEAVY METALS
+
Waste Code: 148
Waste Description: INORGANIC LABORATORY CHEMICALS
+
Waste Code: 211
Waste Description: AROMATIC SOLVENTS
+
Waste Code: 212
Waste Description: ALIPHATIC SOLVENTS
+
Waste Code: 213
Waste Description: PETROLEUM DISTILLATES
+
Waste Code: 221
Waste Description: LIGHT FUELS
+
Waste Code: 241
Waste Description: HALOGENATED SOLVENTS
+
Waste Code: 251
Waste Description: OIL SKIMMINGS & SLUDGES
+
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS
+
Waste Code: 253
Waste Description: EMULSIFIED OILS
+
Waste Code: 263
Waste Description: ORGANIC LABORATORY CHEMICALS

Site: ***PUBLIC WORKS CANADA - NATIONAL DEFENCE***
CF PHOTO UNIT NRC MONTREAL ROAD, CAMPUS BLDG. M23 OTTAWA ON K1A 0K2

Database: ***GEN***

PO Box Num:
Status: Registered
Country: Canada
Generator #: ON0144713
Approval Yrs: As of Sep 2016
SIC Code:
SIC Description:

--- Details ---
Waste Code: 112 C
Waste Description: Acid solutions - containing heavy metals
+
Waste Code: 121 C
Waste Description: Alkaline slutions - containing heavy metals
+
Waste Code: 145 I
Waste Description: Wastes from the use of pigments, coatings and paints
+
Waste Code: 146 T
Waste Description: Other specified inorganic sludges, slurries or solids
+
Waste Code: 146 R
Waste Description: Other specified inorganic sludges, slurries or solids
+
Waste Code: 211 H
Waste Description: Aromatic solvents and residues
+
Waste Code: 263 I
Waste Description: Misc. waste organic chemicals
+
Waste Code: 251 L
Waste Description: Waste oils/sludges (petroleum based)
+
Waste Code: 262 L
Waste Description: Detergents and soaps
+
Waste Code: 264 R
Waste Description: Photoprocessing wastes
+
Waste Code: 264 C
Waste Description: Photoprocessing wastes
+
Waste Code: 331 I
Waste Description: Waste compressed gases including cylinders

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Site: ***GVT. OF CANADA - PUBLIC WORKS***
BLDG 78 CENTRAL EXPERIMENTAL FARM C/O PLACE DU PORTAGE PHASE IV LEVEL 11 HULL OTTAWA ON K1A0M3

Database: ***GEN***

PO Box Num:
Status:
Country:
Generator #: ON0144725
Approval Yrs: 88
SIC Code: 4999
SIC Description: OTHER UTILITY IND.

--- Details ---
Waste Code: 146
Waste Description: OTHER SPECIFIED INORGANICS
+
Waste Code: 221
Waste Description: LIGHT FUELS

+
Waste Code: 222
Waste Description: HEAVY FUELS

Site: ***City of Ottawa***
Bronson Avenue between Arlington - Laurier W Ottawa ON

Database: ***GEN***

PO Box Num:
Status:
Country:
Generator #: ON3229547
Approval Yrs: 2013
SIC Code: 237110
SIC Description: WATER AND SEWER LINE AND RELATED STRUCTURES CONSTRUCTION

--- Details ---
Waste Code: 221
Waste Description: LIGHT FUELS

Site: ***City of Ottawa***
Bronson Avenue between Arlington - Laurier W Ottawa ON

Database: ***GEN***

PO Box Num:
Status:
Country:
Generator #: ON3229547
Approval Yrs: 2012
SIC Code: 237110
SIC Description: Water and Sewer Line and Related Structures Construction

---

Site: ***PUBLIC WORKS CANADA***
TUNNEY'S PASTURE COMPLEX CENTRAL HEA TI NG PLANT OTTAWA ON K1A 0M3

Database: ***NPCB***

Company Code: O3210
Industry: PUBLICS WORKS CANADA
Site Status: DELETED FEDERAL SITES
Transaction Date: 12/4/1994
Inspection Date: 3/13/1991

Site: ***PUBLIC WORKS CANADA***
TUNNEY'S PASTURE COMPLEX BROOKE CLAXTON BUILD Ottawa ON

Database: ***NPCB***

Company Code: O3211
Industry: Public Works Canada
Site Status: In- Use
Transaction Date: 3/14/1991
Inspection Date: 3/14/1991

--- Details ---
Label:
Serial No.:
PCB Type/Code: Askarel/Askarel
Location: BROOKE CLAXTON BLDG.
Item/State:
No. of Items:
Manufacturer:
Status: In-Use
Contents:
+
Label:
Serial No.:
PCB Type/Code: Askarel/Askarel
Location: BROOKE CLAXTON BUILDING

Item/State:
No. of Items:
Manufacturer:
Status: In-Use
Contents:

Site: ***PUBLIC WORKS CANADA***
CENTRAL EXPERIMENTAL FARM; K W NEETBY BUILDING/ROO OTTAWA ON

Database: ***NPCB***

Company Code: O3085
Industry: Public Works Canada
Site Status:
Transaction Date: 5/30/1990
Inspection Date: 11/24/1987

Site: ***PUBLIC WORKS CANADA***
TUNNEY'S PASTURE COMPLEX BROOKE CLAXTON BUILDING OTTAWA ON K1A 0M3

Database: ***NPCB***

Company Code: O3211
Industry: PUBLICS WORKS CANADA
Site Status: FEDERAL FACILITIES (IN USE)
Transaction Date: 11/19/1993
Inspection Date: 3/14/1991

--- Details ---
Label: OR22597
Serial No.: G3045-2
PCB Type/Code: ASKAREL/ASKAREL
Location:
Item/State: TRANSFORMER/FULL
No. of Items: 1
Manufacturer:
Status: IN-USE
Contents: 6807 L
+
Label: OR22596
Serial No.: G3044-1
PCB Type/Code: ASKAREL/ASKAREL
Location:
Item/State: TRANSFORMER/FULL
No. of Items: 1
Manufacturer:
Status: IN-USE
Contents: 6807 L
+
Label: OR22598
Serial No.: G3044-2
PCB Type/Code: ASKAREL/ASKAREL
Location:
Item/State: TRANSFORMER/FULL
No. of Items: 1
Manufacturer:
Status: IN-USE
Contents: 6807 L
+
Label: OR24321
Serial No.: G3045-1
PCB Type/Code: ASKAREL/ASKAREL
Location:
Item/State: TRANSFORMER/FULL
No. of Items: 1
Manufacturer:
Status: IN-USE
Contents: 6807 L

Site: ***PUBLIC WORKS CANADA***
TUNNEY'S PASTURE COMPLEX Ottawa ON

Database: ***NPCB***

Company Code: O3086
Industry: Public Works Canada
Site Status: In- Use
Transaction Date: 10/27/1989
Inspection Date:

--- Details ---
Label:
Serial No.:
PCB Type/Code: Askarel/Askarel
Location: PUMPHOUSE, TUNNEY'S PASTURE
Item/State:
No. of Items:
Manufacturer:
Status: In-Use
Contents:
+
Label:
Serial No.:
PCB Type/Code: Askarel/Askarel
Location: RESEARCH CENTER
Item/State:
No. of Items:
Manufacturer:
Status: In-Use
Contents:
+
Label:
Serial No.:
PCB Type/Code: Askarel/Askarel
Location: TUNNEY'S PASTURE
Item/State:
No. of Items:
Manufacturer:
Status: In-Use
Contents:

Site: ***HOTEL/MOTEL***
CARLING AVENUE (N.O.S.) OTTAWA CITY ON

Database: ***SPL***

Ref NO: 84065
Contaminant Code:
Contaminant Name:
Contaminant Quantity:
Incident Cause: UNDERGROUND TANK LEAK
Incident Dt: 4/14/1993
Incident Reason: CORROSION
Incident Summary: EMBASSY WEST HOTEL: FUEL-CONTAMINATED SOIL FOUND BY UNDERGROUND TANK
MOE Reported Dt: 4/14/1993
Environmental Impact: CONFIRMED
Nature of Impact: Soil contamination
Receiving Medium: LAND
SAC Action Class:
Sector Source Type:
Site Municipality: 20101

Site: ***OC TRANSPO***
CARLING AVE. BETWEE COLE AVE. & MAITLAND AVE. MOTOR VEHICLE (OPERATING FLUID) OTTAWA CITY ON

Database: ***SPL***

Ref NO: 238849
Contaminant Code:
Contaminant Name:
Contaminant Quantity:

Incident Cause: PIPE/HOSE LEAK
Incident Dt: 9/9/2002
Incident Reason: EQUIPMENT FAILURE
Incident Summary: OC TRANSIT BUS: 60 L HYDRAULIC OIL TO ROAD & STORM SEWER. CLEANING.
MOE Reported Dt: 9/9/2002
Environmental Impact: POSSIBLE
Nature of Impact: Multi Media Pollution
Receiving Medium: LAND, WATER
SAC Action Class:
Sector Source Type:
Site Municipality: 20107

Site: ***CONSTRUCTION COMPANY***
BRONSON AVENUE AT RIDEAU RIVER. OTTAWA CITY ON

Database: ***SPL***

Ref NO: 93972
Contaminant Code:
Contaminant Name:
Contaminant Quantity:
Incident Cause: OTHER CONTAINER LEAK
Incident Dt: 11/30/1993
Incident Reason: ERROR
Incident Summary: CONSTRUCTION COMPANY- DIESEL TO RIVER FROM OVERTURNED CRANE.
MOE Reported Dt: 11/30/1993
Environmental Impact: NOT ANTICIPATED
Nature of Impact: Water course or lake
Receiving Medium: WATER
SAC Action Class:
Sector Source Type:
Site Municipality: 20101

Site: ***O.C. TRANSPO***
ON CARLING AVE. IN BETWEEN PARKDALE & HOLLAND ST. OTTAWA SITE 1500 ST. LAURENT BOULEVARD OTTAWA CITY ON

Database: ***SPL***

Ref NO: 113894
Contaminant Code:
Contaminant Name:
Contaminant Quantity:
Incident Cause: OTHER CONTAINER LEAK
Incident Dt: 6/1/1995
Incident Reason: EQUIPMENT FAILURE
Incident Summary: O.C. TRANSPO - UNKNOWN AMOUNT OF MOTOR OIL TO RD. & SEWER FROM BUS.
MOE Reported Dt: 6/1/1995
Environmental Impact: POSSIBLE
Nature of Impact: Water course or lake
Receiving Medium: LAND / WATER
SAC Action Class:
Sector Source Type:
Site Municipality: 20101

Site:
Carling Ave, EB and Melrose (centre of intersection) Ottawa ON

Database: ***SPL***

Ref NO: 1662-97RRRA
Contaminant Code: 15
Contaminant Name: HYDRAULIC OIL
Contaminant Quantity: 10 L
Incident Cause: Leak/Break
Incident Dt: 16-MAY-13
Incident Reason: Equipment Failure
Incident Summary: OC Transpo: 10 L hydraulic oil to rd/CB. Cntd/clng.
MOE Reported Dt: 16-MAY-13

Environmental Impact: Confirmed
Nature of Impact: Surface Water Pollution
Receiving Medium:
SAC Action Class: Watercourse Spills
Sector Source Type: Motor Vehicle
Site Municipality: Ottawa

Site: ***Industry Canada - Communications Research Centre***
Carling Avenue (Between Moody and March Road) Ottawa ON

Database: ***SPL***

Ref NO: 6336-5TMS96
Contaminant Code: 44
Contaminant Name: SEWAGE,RAW UNCHLORINATED
Contaminant Quantity:
Incident Cause: Valve / Fitting Leak Or Failure
Incident Dt: 11/25/2003
Incident Reason: Error- Operator error
Incident Summary: CRC: Sewage forcemain hit, contained to land
MOE Reported Dt: 11/25/2003
Environmental Impact: Not Anticipated
Nature of Impact: Other Impact(s)
Receiving Medium: Land
SAC Action Class:
Sector Source Type:
Site Municipality: Ottawa

Site: ***Enbridge Gas Distribution Inc.***
Bronson Avenue near Fourth Ave. Ottawa ON

Database: ***SPL***

Ref NO: 3447-8TESBJ
Contaminant Code: 35
Contaminant Name: NATURAL GAS, COMPRESSED (METHANE)
Contaminant Quantity:
Incident Cause: Pipe Or Hose Leak
Incident Dt: 16-APR-12
Incident Reason: Spill
Incident Summary: Enbridge, TSSA FSB: 4" Gas Main Strike, Nat Gas to Air
MOE Reported Dt: 16-APR-12
Environmental Impact: Confirmed
Nature of Impact:
Receiving Medium: Sewage - Municipal/Private and Commercial
SAC Action Class: Air Spills - Gases and Vapours
Sector Source Type: Pipeline
Site Municipality: Ottawa

Site:
RIDEAU RIVER, AT BRONSON AVE NEAR \ OTTAWA CITY ON

Database: ***SPL***

Ref NO: 94444
Contaminant Code:
Contaminant Name:
Contaminant Quantity:
Incident Cause:
Incident Dt: 11/22/1993
Incident Reason:
Incident Summary:
MOE Reported Dt: 11/22/1993
Environmental Impact:
Nature of Impact:
Receiving Medium: WATER
SAC Action Class:
Sector Source Type:
Site Municipality: 20101

Site:
Bronson Ave Ottawa ON

Database:
SPL

Ref NO:	5310-7DDTQN
Contaminant Code:	27
Contaminant Name:	COOLANT N.O.S.
Contaminant Quantity:	25 L
Incident Cause:	Unknown
Incident Dt:	
Incident Reason:	Equipment Failure
Incident Summary:	OC Transpo: Antifreeze to sewer from bus. Carleton U.
MOE Reported Dt:	4/4/2008
Environmental Impact:	Not Anticipated
Nature of Impact:	
Receiving Medium:	
SAC Action Class:	Watercourse Spills
Sector Source Type:	Other Motor Vehicle
Site Municipality:	Ottawa

Site: ***LECLAIR FUELS LTD.***
BRONSON AVENUE TANK TRUCK (CARGO) OTTAWA CITY ON

Database:
SPL

Ref NO:	9634
Contaminant Code:	
Contaminant Name:	
Contaminant Quantity:	
Incident Cause:	OTHER CONTAINER LEAK
Incident Dt:	9/21/1988
Incident Reason:	UNKNOWN
Incident Summary:	OMHEU TRUCK-100 L GASOLINE SPILLED TO CATCHBASIN AND ROAD
MOE Reported Dt:	9/21/1988
Environmental Impact:	
Nature of Impact:	
Receiving Medium:	LAND
SAC Action Class:	
Sector Source Type:	
Site Municipality:	20101

Site: ***City of Ottawa***
Bronson St E, north of Catherine St Ottawa ON

Database:
SPL

Ref NO:	0342-74AGWM
Contaminant Code:	27
Contaminant Name:	COOLANT N.O.S.
Contaminant Quantity:	1 L
Incident Cause:	Pipe Or Hose Leak
Incident Dt:	
Incident Reason:	Unknown - Reason not determined
Incident Summary:	1L coolant to catch basin. Cleaning.
MOE Reported Dt:	6/18/2007
Environmental Impact:	Not Anticipated
Nature of Impact:	Surface Water Pollution
Receiving Medium:	Water
SAC Action Class:	
Sector Source Type:	Other Motor Vehicle
Site Municipality:	Ottawa

Site:
Graham Creek outfall near Carling Av.<UNOFFICIAL> Ottawa ON

Database:
SPL

Ref NO:	7230-6EESVB
Contaminant Code:	
Contaminant Name:	OIL (PETROLEUM BASED, NOT SPECIFIED)
Contaminant Quantity:	
Incident Cause:	Discharge Or Bypass To A Watercourse
Incident Dt:	7/18/2005
Incident Reason:	Unknown - Reason not determined
Incident Summary:	Ukn srce,film on Graham Ck,Works & ERP
MOE Reported Dt:	7/18/2005
Environmental Impact:	Possible
Nature of Impact:	Surface Water Pollution
Receiving Medium:	Water
SAC Action Class:	Spills to Watercourses
Sector Source Type:	
Site Municipality:	Ottawa

Site: ***PUC***
BOOTH STREET AT TRANSITWAY WHERE ALBERT AND SLATER JOIN MOTOR VEHICLE (OPERATING FLUID)
OTTAWA CITY ON

Database: ***SPL***

Ref NO:	20775
Contaminant Code:	
Contaminant Name:	
Contaminant Quantity:	
Incident Cause:	PIPE/HOSE LEAK
Incident Dt:	6/21/1989
Incident Reason:	MATERIAL FAILURE
Incident Summary:	OTTAWA CARLETON-90 L HYDRAULIC OIL TO STORM SEWER AND STREET.
MOE Reported Dt:	6/21/1989
Environmental Impact:	NOT ANTICIPATED
Nature of Impact:	
Receiving Medium:	LAND
SAC Action Class:	
Sector Source Type:	
Site Municipality:	20101

Site: ***Deep Foundations; SNC-Lavalin Constructors (Pacific) Inc.***
Boothe Street Bridge Pier #1 @ transit way Ottawa ON

Database: ***SPL***

Ref NO:	0267-9VMF6T
Contaminant Code:	15
Contaminant Name:	HYDRAULIC OIL
Contaminant Quantity:	4 L
Incident Cause:	Leak/Break
Incident Dt:	4/14/2015
Incident Reason:	Equipment Failure
Incident Summary:	Deep Foundations Drilling: 4 L hyd oil to grn, cleaned
MOE Reported Dt:	4/16/2015
Environmental Impact:	
Nature of Impact:	Land
Receiving Medium:	
SAC Action Class:	Land Spills
Sector Source Type:	
Site Municipality:	Ottawa

Site: ***Taggart Construction Limited***
Field adjacent to Findlay Creek<UNOFFICIAL> Ottawa ON

Database: ***SPL***

Ref NO:	5017-82RTMZ
Contaminant Code:	99
Contaminant Name:	SILT
Contaminant Quantity:	0 other - see incident description
Incident Cause:	

Incident Dt:	
Incident Reason:	
Incident Summary:	Taggart Construction: silt to Findlay Creek
MOE Reported Dt:	2/17/2010
Environmental Impact:	Not Anticipated
Nature of Impact:	Surface Water Pollution
Receiving Medium:	
SAC Action Class:	Watercourse Spills
Sector Source Type:	Other
Site Municipality:	

Site: ***City of Ottawa***
CARLING AVE., IN FRONT OF WESTGATE SHOPPING CENTRE<UNOFFICIAL> Ottawa ON

Database: ***SPL***

Ref NO:	7707-5XRK48
Contaminant Code:	27
Contaminant Name:	COOLANT (N.O.S.)
Contaminant Quantity:	7 L
Incident Cause:	Pipe Or Hose Leak
Incident Dt:	4/5/2004
Incident Reason:	Equipment Failure
Incident Summary:	OC Transpo,7 L antifreeze into storm sewer,works
MOE Reported Dt:	4/5/2004
Environmental Impact:	Possible
Nature of Impact:	Soil Contamination
Receiving Medium:	Land
SAC Action Class:	Spills
Sector Source Type:	Other
Site Municipality:	Ottawa

Site:
Carling Ave near Woodroffe CARLING AVE<UNOFFICIAL> Ottawa ON

Database: ***SPL***

Ref NO:	3016-6UGHU4
Contaminant Code:	15
Contaminant Name:	HYDRAULIC OIL
Contaminant Quantity:	9 L
Incident Cause:	
Incident Dt:	10/11/2006
Incident Reason:	
Incident Summary:	Carling Ave: spill 2 gallons hydraulic oil
MOE Reported Dt:	10/11/2006
Environmental Impact:	Not Anticipated
Nature of Impact:	Soil Contamination
Receiving Medium:	Land
SAC Action Class:	
Sector Source Type:	Other Motor Vehicle
Site Municipality:	Ottawa

Site: ***OTTAWA TRANSIT***
CARLING AVENUE BUS OTTAWA ON

Database: ***SPL***

Ref NO:	187680
Contaminant Code:	
Contaminant Name:	
Contaminant Quantity:	
Incident Cause:	PIPE/HOSE LEAK
Incident Dt:	9/29/2000
Incident Reason:	UNKNOWN
Incident Summary:	OC TRANSPO:DIESEL FUEL LEAK FROM FUEL PUMP/LINE INTO SEWER-WORKS NOTIFIED
MOE Reported Dt:	9/29/2000
Environmental Impact:	POSSIBLE
Nature of Impact:	Water course or lake

Receiving Medium: WATER
SAC Action Class:
Sector Source Type:
Site Municipality: 20107

Site: ***PUBLIC WORKS CANADA***
VARIOUS LOCATION GOVERNMENT BUILDING OR PROPERTY OTTAWA CITY ON

Database: ***SPL***

Ref NO: 234129
Contaminant Code:
Contaminant Name:
Contaminant Quantity:
Incident Cause: PIPE/HOSE LEAK
Incident Dt: 5/23/2002
Incident Reason: EQUIPMENT FAILURE
Incident Summary: PUBLIC WORKS CANADA: 4 X R22 RELEASES TO ATM
MOE Reported Dt: 7/31/2002
Environmental Impact: CONFIRMED
Nature of Impact: Air Pollution
Receiving Medium: AIR
SAC Action Class:
Sector Source Type:
Site Municipality: 20107

Site: ***FIRST FUEL***
TANK TRUCK (CARGO) OTTAWA CITY ON

Database: ***SPL***

Ref NO: 31237
Contaminant Code:
Contaminant Name:
Contaminant Quantity:
Incident Cause: PIPE/HOSE LEAK
Incident Dt: 2/22/1990
Incident Reason: ERROR
Incident Summary: FIRST FUELS-5 L FURNACE OIL TO WATER PUDDLE.
MOE Reported Dt: 2/22/1990
Environmental Impact:
Nature of Impact:
Receiving Medium: LAND / WATER
SAC Action Class:
Sector Source Type:
Site Municipality: 20101

Site: ***TAGGART SERVICES***
TRAILER IN YARD TRANSPORT TRUCK (CARGO) OTTAWA CITY ON

Database: ***SPL***

Ref NO: 21945
Contaminant Code:
Contaminant Name:
Contaminant Quantity:
Incident Cause: OTHER CONTAINER LEAK
Incident Dt: 7/13/1989
Incident Reason: UNKNOWN
Incident Summary: TAGGART SERVICES- 2L JUGSOF HYPOCHLORITE(JAVEX) SLON SPILLED IN TRAILER.
MOE Reported Dt: 7/13/1989
Environmental Impact:
Nature of Impact:
Receiving Medium: LAND
SAC Action Class:
Sector Source Type:
Site Municipality: 20101

Site: ***DEPT OF NATIONAL DEFENSE***
AIRPORT (MILITARY RAMP) AIRCRAFT OTTAWA CITY ON

Database: ***SPL***

Ref NO:	8603
Contaminant Code:	
Contaminant Name:	
Contaminant Quantity:	
Incident Cause:	VALVE/FITTING LEAK OR FAILURE
Incident Dt:	8/25/1988
Incident Reason:	EQUIPMENT FAILURE
Incident Summary:	DEPT OF NAT'L DEFENSE - 150 L JET FUEL (A) TO AIRPORT RAMP.
MOE Reported Dt:	8/25/1988
Environmental Impact:	
Nature of Impact:	
Receiving Medium:	LAND
SAC Action Class:	
Sector Source Type:	
Site Municipality:	20101

Site: ***DEPT OF NATIONAL DEFENSE***
OTTAWA AIRPORT AIRCRAFT OTTAWA CITY ON

Database: ***SPL***

Ref NO:	226437
Contaminant Code:	
Contaminant Name:	
Contaminant Quantity:	
Incident Cause:	CONTAINER OVERFLOW
Incident Dt:	5/26/2002
Incident Reason:	UNKNOWN
Incident Summary:	DND: AIRCRAFT #15005 30 L JET A1 TO GRND CONTAINED AND CLEANED
MOE Reported Dt:	5/27/2002
Environmental Impact:	POSSIBLE
Nature of Impact:	Soil contamination
Receiving Medium:	LAND
SAC Action Class:	
Sector Source Type:	
Site Municipality:	20107

Site: ***DEPARTMENT OF NATIONAL DEFENSE***
ROCKCLIFFE SITE FUEL STORAGE TANK OTTAWA CITY ON

Database: ***SPL***

Ref NO:	176223
Contaminant Code:	
Contaminant Name:	
Contaminant Quantity:	
Incident Cause:	CONTAINER OVERFLOW
Incident Dt:	12/24/1999
Incident Reason:	ERROR
Incident Summary:	DND- TWO SEPARATE SPILLS OF DIESEL-5 TO 10 LITRES TO GROUND- NO ADVERSE EFF
MOE Reported Dt:	12/29/1999
Environmental Impact:	NOT ANTICIPATED
Nature of Impact:	Other
Receiving Medium:	LAND
SAC Action Class:	
Sector Source Type:	
Site Municipality:	20101

Site: ***OTTAWA-CARLETON, R.M. OF***
OTTAWA RIVER, FROM TRIBUTARY AT THE BOOTH ST. REGULATOR SANITARY SEWER SYSTEM OTTAWA CITY ON

Database: ***SPL***

Ref NO:	168657

Contaminant Code:
Contaminant Name:
Contaminant Quantity:
Incident Cause: WASTEWATER DISCHARGE TO WATERCOURSE
Incident Dt: 6/3/1999
Incident Reason: EQUIPMENT FAILURE
Incident Summary: RMOC- COMBINED SEWER OVERFLOW TO OTTAWA R. FROM CLOSED REGULATOR.
MOE Reported Dt: 6/8/1999
Environmental Impact: POSSIBLE
Nature of Impact: Water course or lake
Receiving Medium: WATER
SAC Action Class:
Sector Source Type:
Site Municipality: 20101

Site: ***City of Ottawa***
Booth Street Ottawa ON

Database: ***SPL***

Ref NO: 4201-9VWNK8
Contaminant Code: 27
Contaminant Name: COOLANT N.O.S.
Contaminant Quantity: 10 L
Incident Cause: Leak/Break
Incident Dt: 4/25/2015
Incident Reason: Unknown / N/A
Incident Summary: Coolant to road and some to catch basin.
MOE Reported Dt: 4/25/2015
Environmental Impact:
Nature of Impact: Land
Receiving Medium:
SAC Action Class: Land Spills
Sector Source Type:
Site Municipality: Ottawa

Site: ***OTTAWA-CARLETON, R.M. OF***
BOOTH ST GATE SANITARY SEWER SYSTEM OTTAWA CITY ON

Database: ***SPL***

Ref NO: 153868
Contaminant Code:
Contaminant Name:
Contaminant Quantity:
Incident Cause: WASTEWATER DISCHARGE TO WATERCOURSE
Incident Dt: 3/28/1998
Incident Reason: STORM/FLOOD/WIND
Incident Summary: OTTAWA CARLETON R.M.- BYPASS OF RAW UNCHLORINATED SEWAGE,RAIN
MOE Reported Dt: 3/28/1998
Environmental Impact: POSSIBLE
Nature of Impact: Water course or lake
Receiving Medium: WATER
SAC Action Class:
Sector Source Type:
Site Municipality: 20101

Site: ***OTTAWA-CARLETON, R.M. OF***
ON THE TRANSITWAY EASTBOUND AT BOOTH AND LEBRETON MOTOR VEHICLE (OPERATING FLUID)
OTTAWA CITY ON

Database: ***SPL***

Ref NO: 125046
Contaminant Code:
Contaminant Name:
Contaminant Quantity:
Incident Cause: OTHER CAUSE (N.O.S.)
Incident Dt: 4/17/1996

Incident Reason:	UNKNOWN
Incident Summary:	OC TRANSPO-40L TRANSMISSION FLUID TO ROADWAY.
MOE Reported Dt:	4/17/1996
Environmental Impact:	NOT ANTICIPATED
Nature of Impact:	Water course or lake
Receiving Medium:	LAND
SAC Action Class:	
Sector Source Type:	
Site Municipality:	20101

Site: ***Ottawa Hydro <UNOFFICIAL>*** ***Database:*** ***SPL***
ON BELL ST. E. OF WESTRIDGE DR. ACROSS FROM LOT 173 IN STITTSVILLE <UNOFFICIAL> Ottawa ON

Ref NO:	2302-63TUK4
Contaminant Code:	15
Contaminant Name:	TRANSFORMER OIL (N.O.S.)
Contaminant Quantity:	150 L
Incident Cause:	Cooling System Leak
Incident Dt:	8/13/2004
Incident Reason:	Damage By Moving Equipment - Containers damaged by moving
Incident Summary:	Ottawa Hydro - 150 L of oil to ground.
MOE Reported Dt:	8/13/2004
Environmental Impact:	
Nature of Impact:	Soil Contamination
Receiving Medium:	Land
SAC Action Class:	
Sector Source Type:	
Site Municipality:	Ottawa

Site: ***Taggart Construction Limited*** ***Database:*** ***SPL***
Closest accessible street is the south end of Kelly Farm Dr. Ottawa ON

Ref NO:	7527-82RKD5
Contaminant Code:	99
Contaminant Name:	SILT
Contaminant Quantity:	0 other - see incident description
Incident Cause:	Discharge Or Bypass To A Watercourse
Incident Dt:	
Incident Reason:	Spill
Incident Summary:	Taggart Construction: Silt spill to Findlay Creek.
MOE Reported Dt:	2/17/2010
Environmental Impact:	Not Anticipated
Nature of Impact:	Surface Water Pollution
Receiving Medium:	
SAC Action Class:	Watercourse Spills
Sector Source Type:	Other
Site Municipality:	

Site: ***PUBLIC WORKS CANADA*** ***Database:*** ***SPL***
TILLEY BUILDING CONFEDERATION HEIGHTS OTTAWA CITY ON

Ref NO:	96173
Contaminant Code:	
Contaminant Name:	
Contaminant Quantity:	
Incident Cause:	PIPE/HOSE LEAK
Incident Dt:	2/9/1994
Incident Reason:	GASKET/JOINT
Incident Summary:	PUBLIC WORKS CANADA - 400L #2 OIL FROM LINE TO LAND & SUMP
MOE Reported Dt:	2/9/1994
Environmental Impact:	POSSIBLE
Nature of Impact:	Soil contamination
Receiving Medium:	LAND

SAC Action Class:
Sector Source Type:
Site Municipality: 20101

Site: ***DEPARTMENT OF NATIONAL DEFENSE***
DND UPLANDS AIR BASE, HANGERS # 17, 18 & 19. TRANSFORMER OTTAWA CITY ON

Database: ***SPL***

Ref NO: 152985
Contaminant Code:
Contaminant Name:
Contaminant Quantity:
Incident Cause: OTHER CONTAINER LEAK
Incident Dt: //
Incident Reason: ERROR
Incident Summary: DND- FURNACE OIL LEAK TO PARKING LOT AT OTTAWA UP-LAND AIR BASE, CLEANED UP
MOE Reported Dt: 3/4/1998
Environmental Impact: POSSIBLE
Nature of Impact: Water course or lake
Receiving Medium: LAND
SAC Action Class:
Sector Source Type:
Site Municipality: 20101

Site: ***Taggart Construction Limited***
Findlay Creek Subdivision Ottawa ON

Database: ***SPL***

Ref NO: 4066-82SU3T
Contaminant Code: 43
Contaminant Name: SEDIMENT(SUSPENDED SOLIDS/ SAND/ SILT)
Contaminant Quantity: 90 min (duration)
Incident Cause: Discharge Or Bypass To A Watercourse
Incident Dt:
Incident Reason: Overstress/Pressure - Any form of overloading wherein the design strength of the container was exceeded
Incident Summary: Taggart Construction: sediment to Findlay Creek
MOE Reported Dt: 2/18/2010
Environmental Impact: Confirmed
Nature of Impact: Surface Water Pollution
Receiving Medium:
SAC Action Class: Environment Canada - Spills at Federal Facilities & Spills of National Interest
Sector Source Type:
Site Municipality:

Site: ***DEPARTMENT OF NATIONAL DEFENSE***
CONNAUGHT RANGES & TRAINING CENTRE - NATIONAL DEFENSE SITE OTTAWA CITY ON

Database: ***SPL***

Ref NO: 237133
Contaminant Code:
Contaminant Name:
Contaminant Quantity:
Incident Cause: UNKNOWN
Incident Dt: 8/26/2002
Incident Reason: UNKNOWN
Incident Summary: CONNAUGHT RANGE:10 LITRES HYDRAULIC FLUID TO GRD, CONTAINED/CLEANING
MOE Reported Dt: 8/26/2002
Environmental Impact: POSSIBLE
Nature of Impact: Soil contamination
Receiving Medium: LAND
SAC Action Class:
Sector Source Type:
Site Municipality: 20107

Site: ***Database:***
SPL

SNC Lavalin Profac Ottawa ON

Ref NO:	5272-7UEPGA
Contaminant Code:	
Contaminant Name:	REFRIGERANT GAS, R123.
Contaminant Quantity:	0 other - see incident description
Incident Cause:	Discharge or Emission to Air
Incident Dt:	
Incident Reason:	Unknown - Reason not determined
Incident Summary:	SNC Lavalin Profac: potential R123 to atm.
MOE Reported Dt:	7/29/2009
Environmental Impact:	Not Anticipated
Nature of Impact:	Air Pollution
Receiving Medium:	
SAC Action Class:	Air Spills - Gases and Vapours
Sector Source Type:	Other
Site Municipality:	Ottawa

Site: ***TRANSPORT TRUCK*** ***Database:***
SPL

HWY 16 MOTOR VEHICLE (OPERATING FLUID) OTTAWA CITY ON

Ref NO:	76308
Contaminant Code:	
Contaminant Name:	
Contaminant Quantity:	
Incident Cause:	OTHER CONTAINER LEAK
Incident Dt:	9/15/1992
Incident Reason:	ERROR
Incident Summary:	TRANSPORT TRUCK-450 L DIESEL FUEL TO HWY 16 CONTAINED,FD,PD,MTO.
MOE Reported Dt:	9/15/1992
Environmental Impact:	POSSIBLE
Nature of Impact:	Soil contamination
Receiving Medium:	LAND
SAC Action Class:	
Sector Source Type:	
Site Municipality:	20101

Site: ***HEATING OIL TANK*** ***Database:***
SPL

FARM OFF HWY 16 PETROLEUM SECTOR _ONLY_ OTTAWA-CARLETON R.M. ON

Ref NO:	30436
Contaminant Code:	
Contaminant Name:	
Contaminant Quantity:	
Incident Cause:	ABOVE-GROUND TANK LEAK
Incident Dt:	1/31/1990
Incident Reason:	CORROSION
Incident Summary:	STOVE OIL TANK-900 L STOVE OIL TO GROUND.
MOE Reported Dt:	1/31/1990
Environmental Impact:	
Nature of Impact:	
Receiving Medium:	LAND
SAC Action Class:	
Sector Source Type:	
Site Municipality:	20000

Site: ***NATIONAL DEFENCE*** ***Database:***
SPL

SHERLY'S BAY (PROPERTY) OFF CARLING AVE. FUEL STORAGE TANK OTTAWA CITY ON

Ref NO:	223921
Contaminant Code:	
Contaminant Name:	

Contaminant Quantity:	
Incident Cause:	UNDERGROUND TANK LEAK
Incident Dt:	4/11/2002
Incident Reason:	UNKNOWN
Incident Summary:	NATIONAL DEFENCE, LEAKING UST, INSTALLED PRE 1980 UNKNOW VOLUME TO GRND
MOE Reported Dt:	4/11/2002
Environmental Impact:	POSSIBLE
Nature of Impact:	Soil contamination
Receiving Medium:	LAND
SAC Action Class:	
Sector Source Type:	
Site Municipality:	20107

Appendix: Database Descriptions

Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. ***Note:*** *Databases denoted with " * " indicates that the database will no longer be updated. See the individual database description for more information.*

Abandoned Aggregate Inventory: Provincial AAGR

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

Government Publication Date: Sept 2002*

Aggregate Inventory: Provincial AGR

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

Government Publication Date: Up to Sep 2016

Abandoned Mine Information System: Provincial AMIS

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

Government Publication Date: 1800-Oct 2014

Anderson's Waste Disposal Sites: Private ANDR

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

Government Publication Date: 1860s-Present

Automobile Wrecking & Supplies: Private AUWR

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

Government Publication Date: Oct 31, 2015

Borehole: Provincial BORE

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

Government Publication Date: 1875-Jul 2014

Certificates of Approval: Provincial CA

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

Government Publication Date: 1985-Oct 30, 2011*

Commercial Fuel Oil Tanks: Provincial CFOT

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

Government Publication Date: Aug 31, 2016

Chemical Register: Private CHEM

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

Government Publication Date: Oct 31, 2015

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-Jul 2016

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 2016

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-Jun 2014

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: Jul 31, 2016

Environmental Registry: Provincial EBR

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

Government Publication Date: 1994-Jul 2016

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: Jul 31, 2016

Environmental Effects Monitoring: Federal EEM

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

Government Publication Date: 1992-2007*

ERIS Historical Searches: Private EHS

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

Government Publication Date: 1999-Aug 2016

Environmental Issues Inventory System: Federal EIIS

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

Government Publication Date: 1992-2001*

Emergency Management Historical Event: Provincial EMHE

The Emergency Management Historical Event data class will store the locations of historical occurrences of emergency events. Events captured will include those assigned to the Ministry of Natural Resources by Order-In-Council (OIC) under the Emergency Management and Civil Protection Act as well as events where MNR provided requested emergency response assistance. Many of these events will have involved community evacuations, significant structural loss, and/or involvement of MNR emergency response staff. These events fall into one of ten (10) type categories: Dam Failure; Drought / Low Water; Erosion; Flood; Forest Fire; Soil and Bedrock Instability; Petroleum Resource Center Event, EMO Requested Assistance, Continuity of Operations Event, Other Requested Assistance.

Government Publication Date: May 31, 2014

List of TSSA Expired Facilities: Provincial EXP

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

Government Publication Date: Aug 31, 2016

Federal Convictions: Federal FCON

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

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land: Federal FCS

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

Government Publication Date: June 2000-Oct 2015

Fisheries & Oceans Fuel Tanks: Federal FOFT

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

Government Publication Date: 1964-Sept 2003

Fuel Storage Tank: Provincial FST

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

Government Publication Date: Aug 31, 2016

Fuel Storage Tank - Historic: Provincial FSTH

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

Government Publication Date: Pre-Jan 2010*

Ontario Regulation 347 Waste Generators Summary: Provincial GEN

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

Government Publication Date: 1986-Sep 2016

Greenhouse Gas Emissions from Large Facilities: Federal GHG

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

Government Publication Date: 2013 - Dec 2014

TSSA Historic Incidents: Provincial HINC

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

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks: Federal IAFT

The Department of Indian & Northern Affairs Canada (INAC) maintains an inventory of aboveground & underground fuel storage tanks located on both federal and crown land. Our inventory provides information on the reserve name, location, facility type, site/facility name, tank type, material & ID number, tank contents & capacity, and date of tank installation.

Government Publication Date: 1950-Aug 2003*

TSSA Incidents: Provincial INC

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

Government Publication Date: Aug 31, 2016

Landfill Inventory Management Ontario: Provincial LIMO

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

Government Publication Date: Dec 31, 2013

Canadian Mine Locations: Private MINE

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

Government Publication Date: 1998-2009*

Mineral Occurrences: Provincial MNR

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

Government Publication Date: 1846-Mar 2014

National Analysis of Trends in Emergencies System (NATES): Federal NATE

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

Government Publication Date: 1974-1994*

Non-Compliance Reports: Provincial NCPL

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

Government Publication Date: Dec 31, 2014

National Defense & Canadian Forces Fuel Tanks: Federal NDFT

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

Government Publication Date: Up to May 2001*

National Defense & Canadian Forces Spills: Federal NDSP

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

Government Publication Date: Mar 1999-Aug 2010

National Defence & Canadian Forces Waste Disposal Sites: Federal NDWD

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

Government Publication Date: 2001-Apr 2007*

National Energy Board Wells: Federal NEBW

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

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES): Federal NEES

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

Government Publication Date: 1974-2003*

National PCB Inventory: Federal NPCB

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

Government Publication Date: 1988-2008*

National Pollutant Release Inventory: Federal NPRI

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

Government Publication Date: Dec 31, 2014

Oil and Gas Wells: Private OGW

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

Government Publication Date: 1988-Jun 2016

Ontario Oil and Gas Wells: Provincial OOGW

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

Government Publication Date: 1800-Aug 2015

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 2016

Canadian Pulp and Paper: Private PAP

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

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

Parks Canada Fuel Storage Tanks: Federal PCFT

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

Government Publication Date: 1920-Jan 2005*

Pesticide Register: Provincial PES

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

Government Publication Date: 1988-Jun 2013

TSSA Pipeline Incidents: Provincial PINC

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

Government Publication Date: Aug 31, 2016

Private and Retail Fuel Storage Tanks: Provincial PRT

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

Government Publication Date: 1989-1996*

Permit to Take Water: Provincial PTTW

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

Government Publication Date: 1994-Jul 2016

Ontario Regulation 347 Waste Receivers Summary: Provincial REC

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

Government Publication Date: 1986-2013

Record of Site Condition: Provincial RSC

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

Government Publication Date: 1997-Sept 2001, Oct 2004-Jan 2016

Retail Fuel Storage Tanks: Private RST

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

Government Publication Date: Oct 31, 2015

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-Jan 2016

Wastewater Discharger Registration Database: Provincial SRDS

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

Government Publication Date: 1990-2014

Anderson's Storage Tanks: Private TANK

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

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks: Federal TCFT

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

Government Publication Date: 1970-Mar 2007

TSSA Variances for Abandonment of Underground Storage Tanks: Provincial VAR

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

Government Publication Date: Aug 31, 2016

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: Jul 31, 2016

Waste Disposal Sites - MOE 1991 Historical Approval Inventory: Provincial WDSH

In June 1991, the Ontario Ministry of Environment, Waste Management Branch, published the "June 1991 Waste Disposal Site Inventory", of all known active and closed waste disposal sites as of October 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: Jun 30, 2016

Definitions

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

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

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

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

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

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

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

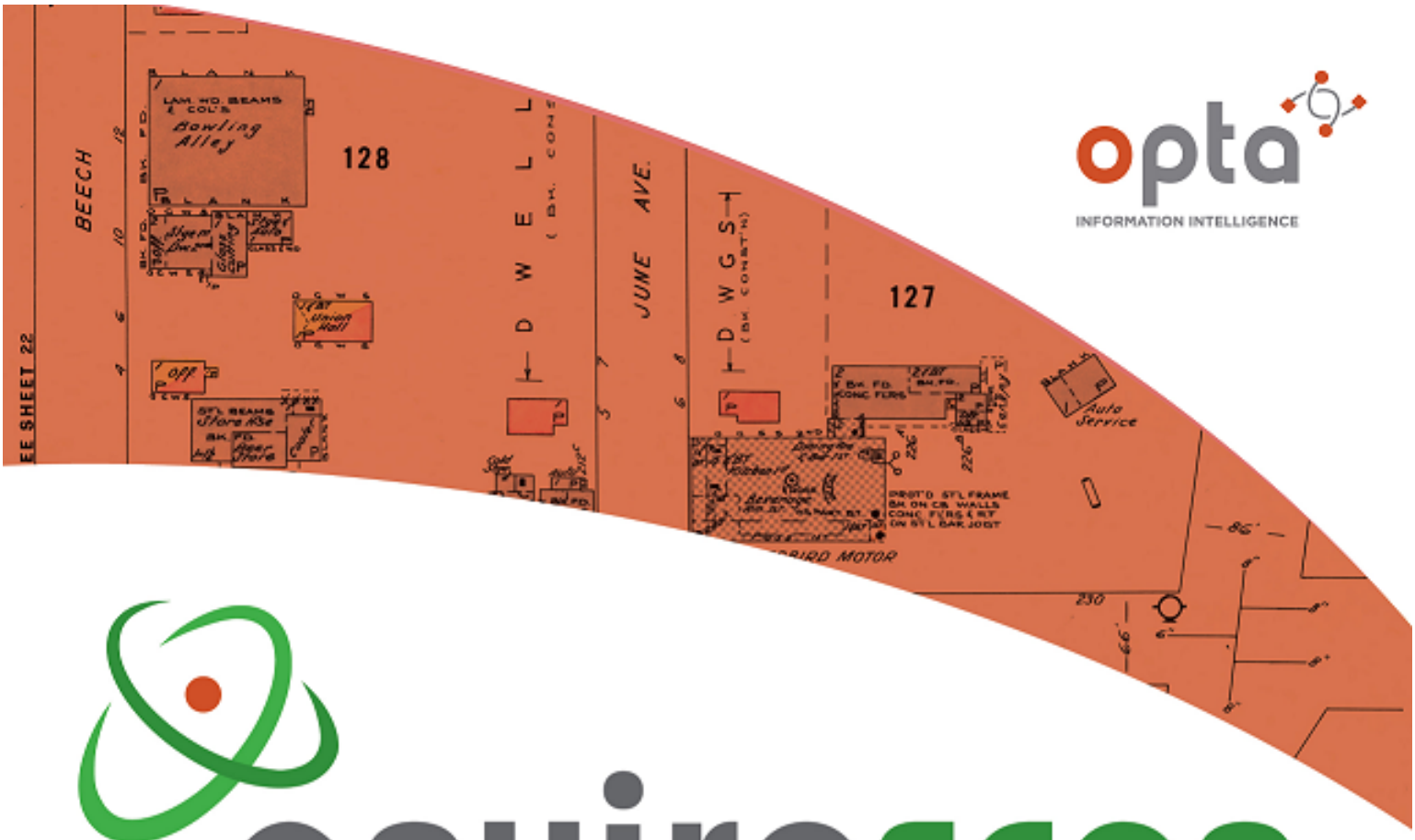
'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

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

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

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

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



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enviroscan

An SCM Company

175 Commerce Valley Drive W
Markham, Ontario L3T 7Z3

T: 905-882-6300
W: www.optaintel.ca

Report Completed By:

Sunita

Site Address:

289 Carling Avenue Ottawa Ontario

Project No:

20161031160

Opta Order ID:

30726

Requested by:

Eleanor Goolab
ERIS

Date Completed:

11/9/2016 10:34:13 AM

Project Name: Phase One ESA
289 Carling Ave.

Project #: 20161031160
P.O. #: GVSO027667

ENVIROSCAN Report

Search Area: 289 Carling Avenue Ottawa Ontario

Requested by:
Eleanor Goolab
Date Completed: November 9, 2016 10:34:13

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Opta Historical Environmental Services Enviroscan™ Terms and Conditions

Report

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

Disclaimer

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

Entire Agreement

The parties hereto acknowledge and agree to be bound by the terms and conditions hereof. The request form constitutes the entire agreement between the parties pertaining to the subject matter hereof and supersedes all prior and contemporaneous agreements, negotiations and discussions, whether oral or written, and there are no representations or warranties, or other agreements between the parties in connection with the subject matter hereof except as specifically set forth herein. No supplement, modification, waiver, or termination of the request shall be binding, unless confirmed in writing by the parties hereto.

Governing Document

In the event of any conflicts or inconsistencies between the provisions hereof and the Reports, the rights and obligations of the parties shall be deemed to be governed by the request form, which shall be the paramount document.

Law

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

ENVIROSCAN Report

Report Index

OPTA INFORMATION INTELLIGENCE

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8	(1915) Volume: Ottawa Volume 2 Firemap: 126
10	(1963) Volume: Ottawa Volume 1 Firemap: 119-4
12	(1963) Volume: Ottawa Volume 1 Firemap: 134-4

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Project Name: Phase One ESA
289 Carling Ave.

Project #: 20161031160
P.O. #: GVSO027667

ENVIROSCAN Report

1901 Volume: Ottawa 1 Firemap: 112A
Ottawa Volume 1 Plan: 1423 (1888)
Sheet: 112A (1901)

Requested by:
Eleanor Goolab
Date Completed: November 9, 2016 10:34:13

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FIP Locator Map
The detailed FIP is on the following page

HEIRS Report

1901 Volume: Ottawa 1 Firemap: 112A
Ottawa Volume 1 Plan: 1423 (1888)
Sheet: 112A (1901)

Project Name: Phase One ESA
289 Carling Ave.

Project #: 20161031160
P.O. #: GVSO027667

ENVIROSCAN Report

1915 Volume: Ottawa 2 Firemap: 126
Ottawa Volume 2 Plan: 1433 (1902)
Sheet: 126 (1915)

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Eleanor Goolab
Date Completed: November 9, 2016 10:34:13

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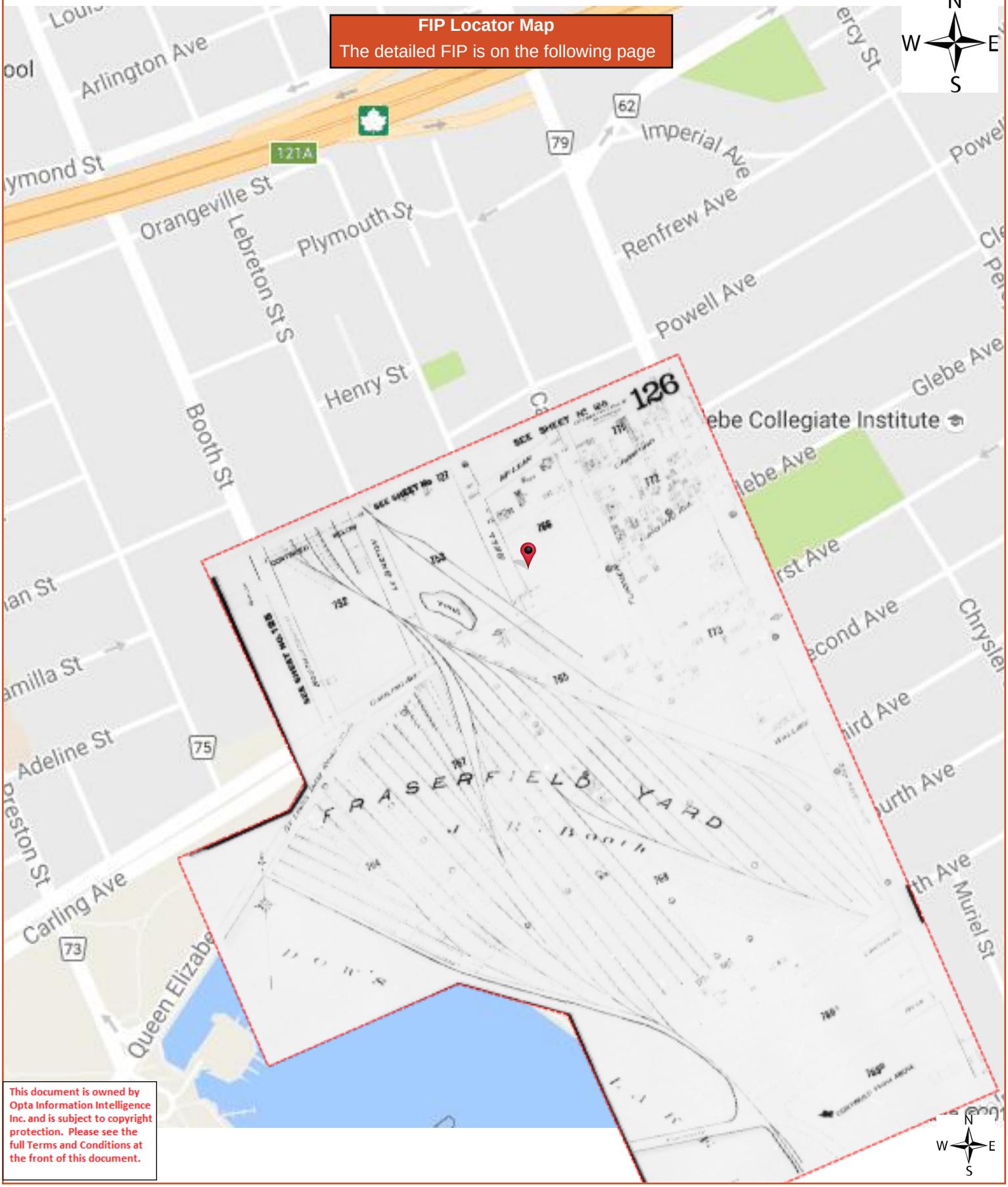

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Ottawa Volume 2 Plan: 1433 (1902)
Sheet: 126 (1915)

Project Name: Phase One ESA
289 Carling Ave.

Project #: 20161031160
P.O. #: GVSO027667

ENVIROSCAN Report

1963 Volume: Ottawa 1 Firemap: 119-4
Ottawa Volume 1 Plan: 1450 (1956)
Sheet: 119-4 (1963)

Requested by:
Eleanor Goolab
Date Completed: November 9, 2016 10:34:13

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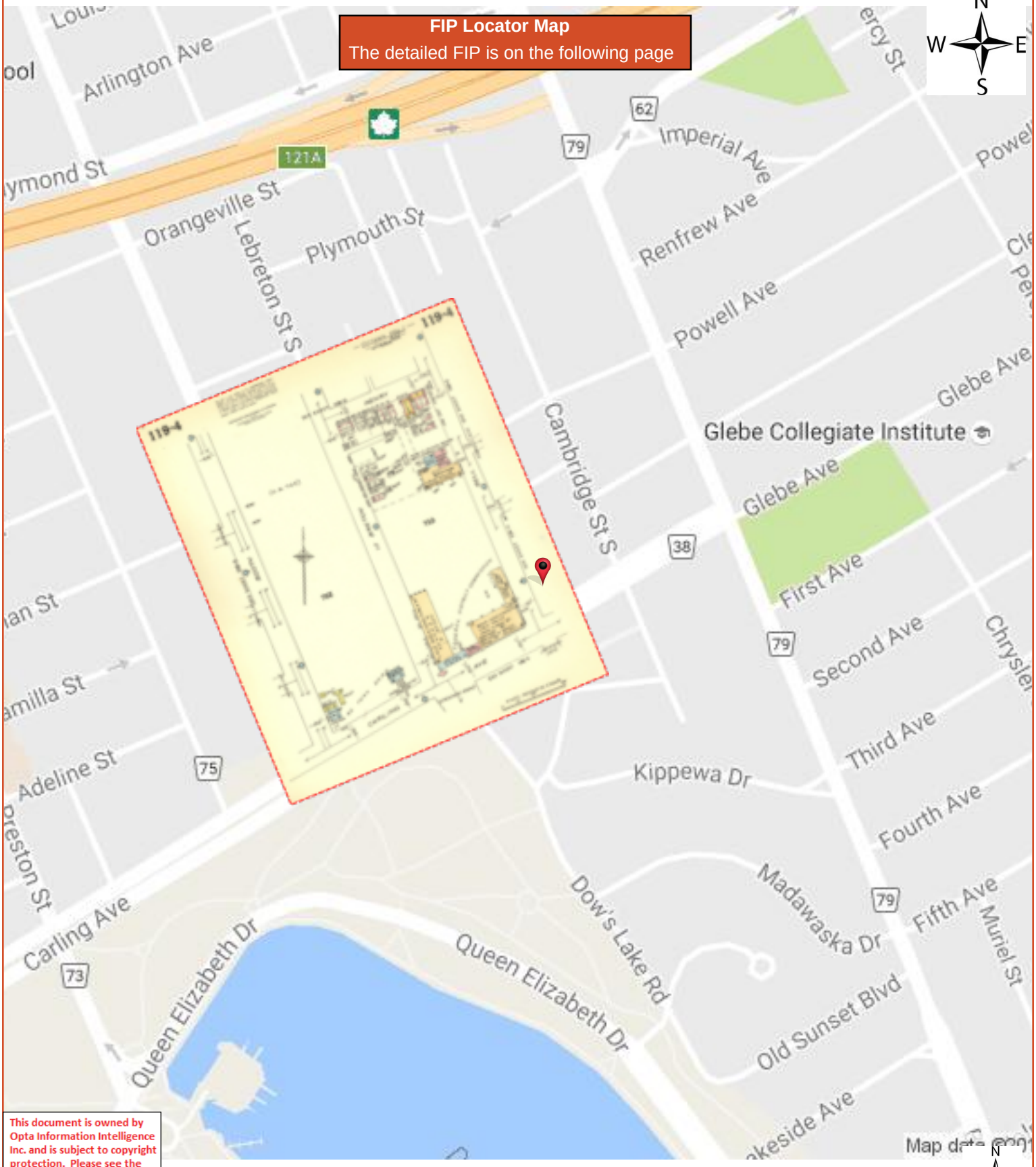

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Eleanor Goolab
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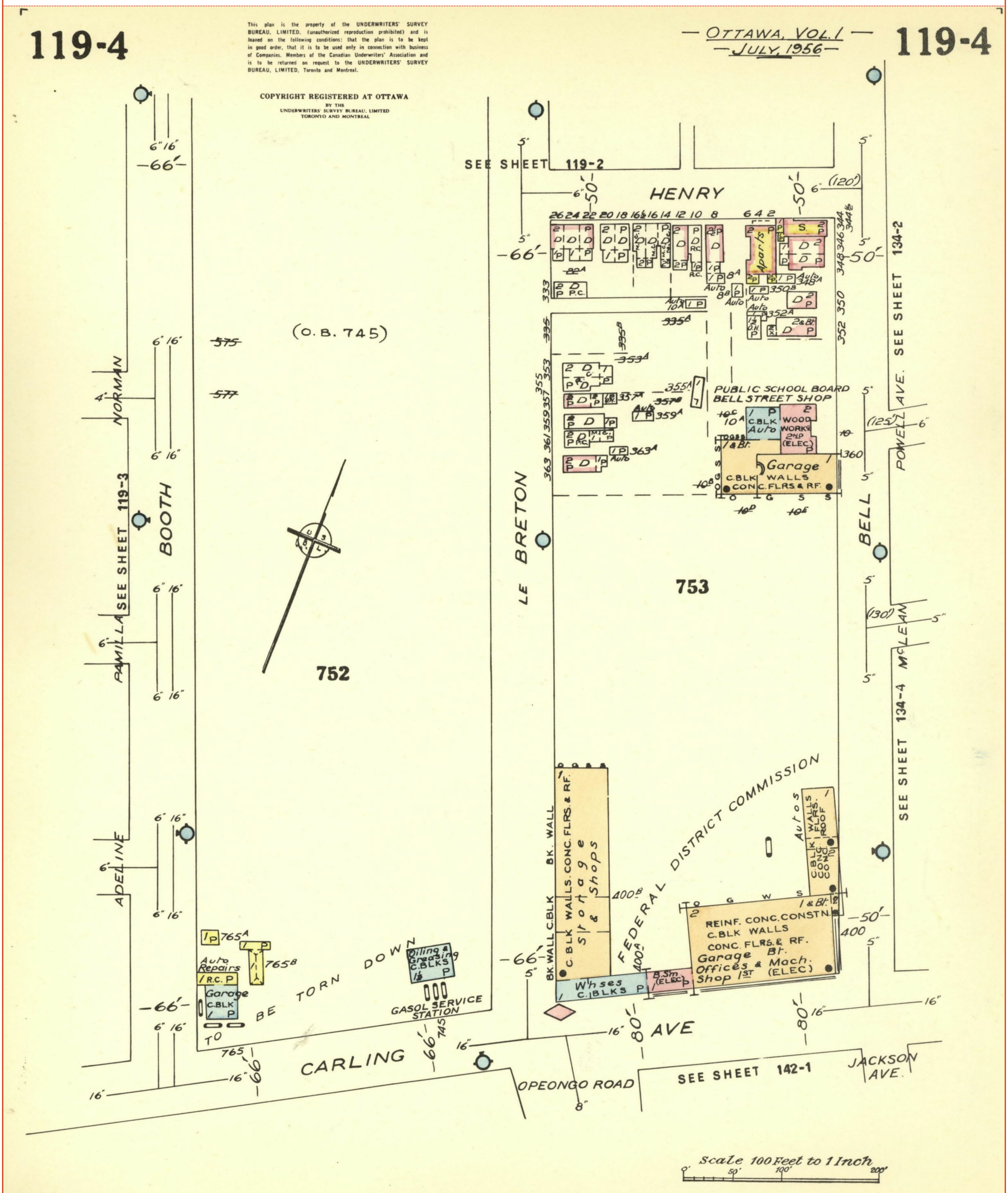

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289 Carling Ave.

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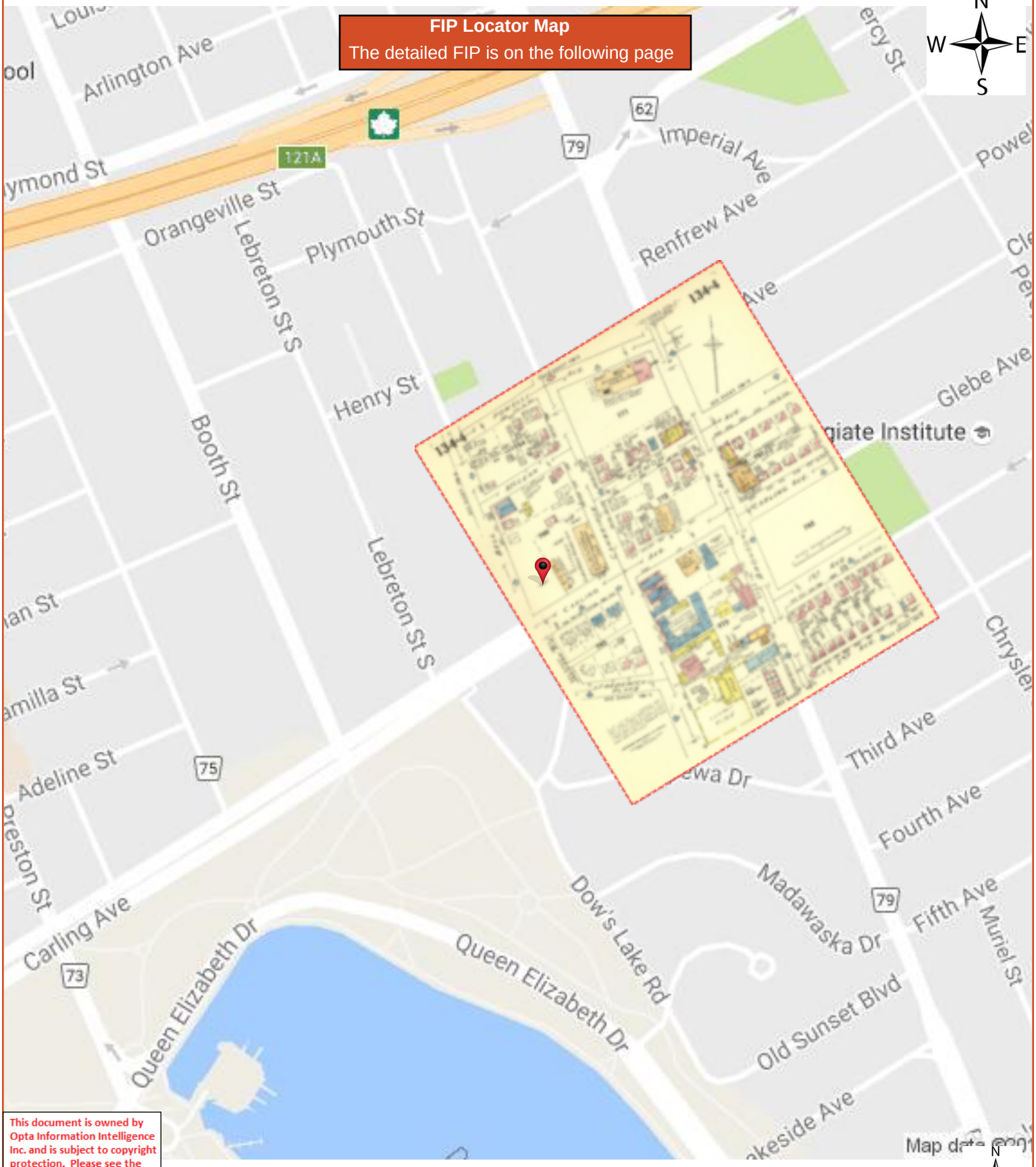

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Ottawa Volume 1 Plan: 1450 (1956)
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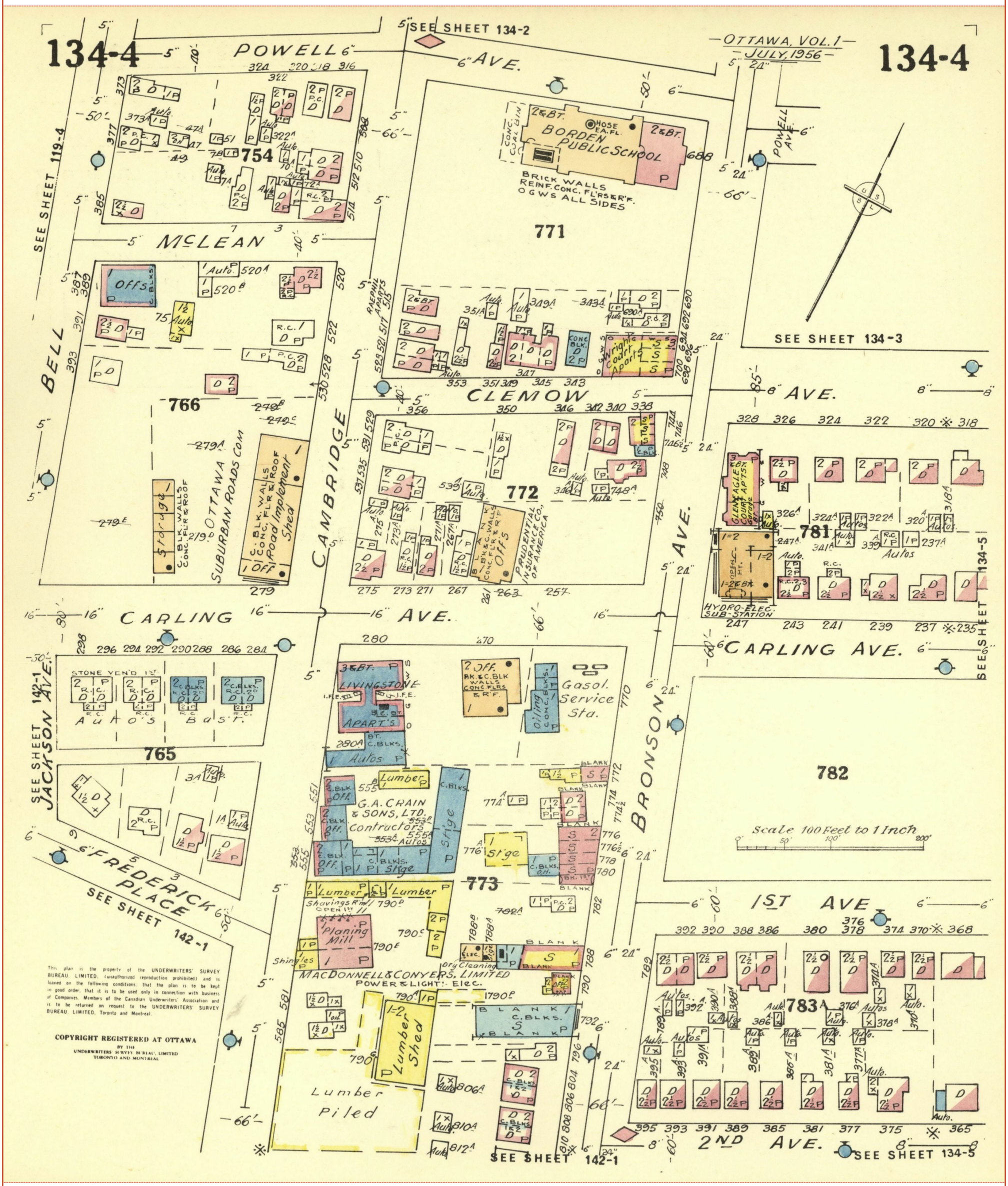

DST CONSULTING ENGINEERS INC.
203-2150 Thurston Drive
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Tel.: 613-748-1415
Fax: 613-748-1356
E-mail: Ottawa@dstgroup.com

Canada Lands Company
30 Metcalfe Street, Suite 601, Ottawa, Ontario
K1P 5L4

March 17, 2014

Attn: Ms. Krista Durie, Project Coordinator

RE: Environmental Liability Assessment
The Bell Street Parking Lot; 289 Carling Avenue, Ottawa, Ontario
DST File No.: OE-OT-017959

1 INTRODUCTION

DST Consulting Engineers Inc. (DST) was retained by Canada Lands Company (CLC) to conduct a review of available historical reports, and to provide a preliminary assessment of the environmental conditions and liability for the Bell Street Parking Lot. This assessment was limited to a desktop review and no verification or investigations were conducted under this mandate. The subject property is located at the north east corner of Bell Street and Carling Avenue, in Ottawa, Ontario (the Site). It is our understanding that the Site is currently owned by PWGSC.

The purpose of this assessment work is to support a real property transaction for the Site and potential future redevelopment of the property based on residential land use. A Record of Site Condition will be required if rezoning of the property is to be completed.

2 SITE DESCRIPTION

The legal address of the property is Lot 10, part of Lots 8, 9, and 11, Concession 1, Ottawa. Originally the Site was used as part of a quarry during 1920's. From 1930's until the early 1950's, the property was used as part of the works yard for the "Ottawa Suburban Roads Commission". The property has been used as a parking lot since the late 1950's (Intera Consultants Ltd., 1997). Size of the lot is approximately 1,271 m².

The relief of the parking lot is relatively flat with adjacent area is sloping toward southeast. The Site is surrounded by residential and government properties, with Carling Avenue to the south.

3 REVIEW OF HISTORICAL ENVIRONMENTAL REPORTS

DST was provided with two historical environmental reports for the Site as described in the following subsections. The PWGSC review completed in 2007 referred to two other reports; a Phase I ESA was completed in March 1996, and a Screening Level Review in July 2002. However, these reports were not available for review by DST.

3.1 Phase II Environmental Site Assessment (Intera Consultants Ltd., 1997)

The Site is located at the northeast corner of Bell Street and Carling Avenue. The Site is surrounded by residential properties. Historical use of the property (quarry, works yard) and neighboring properties (rail yard and metal research facility to the west) indicate a potential for site contamination.

A Phase II Environmental Site Assessment (ESA) was completed by Intera Consultants Ltd. (Intera) to characterize soil and groundwater quality at the Site. Five boreholes were completed, two of them were advanced to bedrock and installed as monitoring wells. The geology of the Site consists of a thin layer (approximately 0.7 m) of fill, represented by black, brown and orange stained sand. The limestone bedrock is grey with frequent mud seams and shaley interbeds. Fractures were observed in the recovered cores, with greater fracture frequency in the upper 2 m of bedrock.

Metal contamination was detected in the fill, with concentrations of barium, copper, lead, molybdenum and zinc exceeding relevant federal and provincial standards. Fill samples were analyzed for petroleum hydrocarbons (PHCs), benzene, toluene, ethylbenzene, xylenes (BTEX), and polyaromatic hydrocarbons (PAH). All concentrations of PHCs and BTEX were less than the laboratory detection limit. Several PAHs were detected slightly above the laboratory detection limit, but were less than the relevant federal and provincial standards at time of the study.

Groundwater samples (two) were analyzed for metals, PHCs, BTEX, and volatile organic compounds (VOC). All concentrations were less than the laboratory detection limits.
Phase II ESA report concluded that as contaminated soil is encapsulated below asphalt layer, there is not an adverse impact to human health or the environment. If remediation of soil is considered, approximately 850 m^3 of fill material should be removed and disposed off-site.

3.2 *Property Review Standard* (PWGSC, 2007)

In 2007, the PWGSC Contaminated Sites Division completed a regular review of PWGSC's property inventory for contaminated sites identification and management purposes. The reviews are completed every 3 years, and the objective is to identify potential pollution and to adopt prevention measures or operational improvements to minimize the creation of new contaminated sites on the PWGSC real property inventory.

The review described the lot as 90% covered by asphalt and 10% covered by grass, bushes and trees. Several potholes and cracked asphalt were observed, with a larger pothole (approximately 1 m^2) at southwest corner. The review concluded that due to poor condition of the asphalt there is possibility of seepage of surface water into exposed contaminated fill. This could lead to dilution and mobilization of the contaminants, possibly impacting the underlying groundwater, and the adjoining properties.

The review recommended that the asphalt be patched and sealed where cracks and potholes are observed. As an alternative, the identified contaminated soil could be excavated, removed from the property, disposed-of at a registered facility, and replaced with compacted, imported, clean fill.

4 SITE ENVIRONMENTAL CONDITIONS

The Phase II ESA completed by Intera identified the presence of contaminated soil at the Site. The layer of fill material overlying the bedrock exhibited metal concentrations (barium, copper, lead, molybdenum and zinc) that exceeded the relevant federal and provincial standards. All concentrations of PHCs and BTEX were less than laboratory detection limits. Several PAH parameter concentrations were slightly greater than the laboratory detection limits, but were less than the then-relevant federal and provincial standards. Fill material at the Site is predominantly encapsulated below an asphalt layer (approximately 90% of the property). The estimated volume of impacted soil is approximately 850 m^3 (Intera, 1997).

Groundwater at the Site was not impacted at the time of the Intera Phase II ESA (November 1997). All groundwater concentrations of metals, PHCs, BTEX, and other VOCs were less than the laboratory detection limits. However, as the PWGSC review indicates, there are cracks and potholes in the asphalt cover and there is potential for infiltration of surface water into the fill

material and the subsequent mobilization of contaminants (metals). As a result, groundwater at the Site may be potentially impacted at the present time.

In addition, the use of the Site as a parking lot potentially is another potentially contaminating activity. The property has been used for parking of vehicles for more than 50 years (Intera, 1997). Considering this long time period, there is a potential that hydrocarbon-based products dripping from cars (fuel, oil, and coolants) or accidental spills could have been flushed by precipitation and infiltrated through cracks and potholes in the asphalt layer into the subsurface. Sixteen years has passed since the last groundwater sampling was completed at the Site.

5 REGULATORY FRAMEWORK

Historic analytical results were compared to the federal and provincial standards valid in 1997:

- Canadian Council of Ministers of Environment (CCME) Canadian Soil Quality Guidelines, March 1997, Guideline for Residential/Parkland Use;
- CCME Interim Canadian Environmental Criteria for Contaminated Sites, September 1991, Interim Remediation Criteria for Soil, Residential/Parkland Use;
- Ontario MOEE, Guideline for Use at Contaminated Sites in Ontario, June 1996, Table B: Surface Soil Criteria for Residential/Parkland Land Use for Non-Potable Groundwater Condition.

Since then the regulations have been updated and a new regulations have been adopted. The current relevant regulations and guidelines for the Site would be as follows:

- CCME Canadian Environmental Quality Guidelines – Soil Quality Guidelines for the Protection of Environmental and Human Health;
- CCME Canadian Soil Quality Guidelines for the Protection of Environmental and Human Health, Polycyclic Aromatic Hydrocarbons, 2010;
- CCME Canada Wide Standards for Petroleum Hydrocarbons (PHC) in soil, Revised in January 2008;
- Environment Canada Federal Interim Groundwater Quality Guidelines, November 2012;
- Ontario MOE Soil, Ground Water and Sediment Standards for Use under Part XV.1 of the *Environmental Protection Act,* April 2011, TABLE 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition, Residential/Parkland/Institutional Property Use, Coarse-Grained Soil (for fill material assessment); and

- Ontario MOE Soil, Ground Water and Sediment Standards for Use under Part XV.1 of the *Environmental Protection Act,* April 2011, TABLE 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition, All Types Property Use (for groundwater assessment).

The new regulations and guidelines tend to have more stringent standards than the older referenced standards. It was noted that several method detection limits in the results of historic Phase II ESA report are greater than current regulation standards. As a result, an updated environmental site assessment is recommended to assess compliance of the Site with current provincial standards.

6 ENVIRONMENTAL LIABILITY ASSESSMENT

In order to assess environmental liability for the Site, DST evaluated potential remedial options for the Site.

Historical environmental reports detected the presence of soil metals contamination at the Site. Fill materials contain concentrations of several metals exceeding the relevant federal and provincial standards (Guidelines in 1997 and the current O. Reg. 153-04 Table 7, as well).

Based on available environmental information and the physical setting for the Site, the remedial option considered by DST to be the most effective for the given site is summarized in the following subsections.

6.1 Removal of Contaminated Soil and Off-Site Disposal

Approximately 850 m^3 of fill material would be excavated and hauled to a licensed disposal facility for disposal. The excavated area would be backfilled with clean fill material and compacted assuming development of the Site is to occur at a later date. We would recommend that the remediation of the Site be conducted at time of development to minimize the additional costs of clean fill importation.

An updated Phase I and II ESA in accordance with the Current provincial regulations O. Reg. 153/04 as amended, would be completed in order to obtain current information about distribution of contaminants in the fill material and the shallow groundwater regime.

Supplemental site investigation, soil removal, backfilling and compaction, preparation of the report and Record of Site Condition for filling would be completed in 3 to 4 months assuming no groundwater quality issues.

6.2 Preliminary Quantitative Human Health and Ecological Risk Assessment

Preliminary quantitative human health (PQRA-HH) and ecological risk assessment (PQRA-E) would be completed for the Site should there be any groundwater quality concerns. As the planned future use of property is residential, the risk assessment would provide assessment of risks for humans and ecological receptors. Risk mitigation measures, as required, would be proposed.

In order to obtain reliable information for a risk assessment supplemental Phase II ESA would be completed to characterize the distribution of contaminants in the fill material. Groundwater quality at the Site would also be assessed.

The environmental consultant would complete supplemental site investigation, pre-submission form, risk assessment and submit the RSC for filling.

Supplemental site investigation, preliminary quantitative risk assessment, reporting and submission of Record of Site Condition would be completed in 12 months.

7 GEOTECHNICAL CONSIDERATIONS

Generally, the Site geology consists of a shallow overburden overlying a limestone bedrock. With respect to future building structures, building foundations will be founded on the limestone bedrock which should not pose any significant concerns with respect to bearing capacity. Should a deep excavation be required for underground parking, excavation costs will be higher and considerations for potential groundwater management as well as excavation wall stability during construction. A detailed geotechnical investigation is required to assess the soils and groundwater conditions with respect to the requirements of future building structures.

8 SUMMARY AND CONCLUSIONS

DST has completed an assessment of the environmental conditions for the Site. Previous environmental investigations indicated the presence of metals-contaminated soil at the Site. Based on the Site conditions, DST has provided the following conditions for consideration:

- Removal of Contaminated Soil and Off-Site Disposal with the estimated cost in the range from $170,000 to $190,000 (assuming no groundwater quality issues). Estimated time frame 3 months; and
- Preliminary Quantitative Human Health and Ecological Risk Assessment with the estimated cost in the range from $90,000 to $110,000 to address groundwater quality issues. Estimated time frame 12 months.

9 REFERENCES

Intera Consultants Ltd., 1997. Phase II Environmental Site Assessment of the Bell Street Parking Lot, Ottawa.

Public Works and Government Services Canada-Contaminated Sites Division, 2007. PWGSC Property Review Standard.

10 CLOSURE

We trust that above meets your present requirements. If you have any questions or comments, please contact the undersigned. The limitations of this report are included in Enclosure 1.

For DST CONSULTING ENGINEERS INC.

Milan Makusa, P. Geo.
Senior Technical Advisor

George Thomas, P. Eng.
Senior Principal

ENCLOSURE 1

Limitations of Report

The information, conclusions and recommendations given herein are specific to this project and this Client only; and for the scope of work described herein. This report may not be relied upon, in whole or in part, by other parties for any purposes whatsoever. Any use which a third party makes of this report, or any part thereof, or any reliance on or decisions made based on it, are the responsibility of such third parties. DST does not accept responsibility for damages, if any, suffered by any third party due to decisions or actions made based on this report.

The data, conclusions and recommendations which are presented in this report, and the quality thereof, are based on a scope of work authorized by the Client. This report cannot warranty that all conditions on, or off, the site are represented by those identified at specific locations. For example, conditions between sampling locations may differ from those encountered in the investigation and observed or measured conditions may change with time.

Any recommendations and conclusions provided, that are based on conditions or assumptions reported herein, will inherently include any uncertainty associated with those conditions or assumptions. Many aspects involving professional judgment such as subsurface models and remediation criteria contain a degree of uncertainty. This uncertainty should be managed by periodic review and refinement as additional information becomes available.

Note also that standards, guidelines and practices related to environmental investigations may change with time. Those which were applied at the time of this investigation may be obsolete or unacceptable at a later date.

Any topographic benchmarks and elevations documented in this report are primarily used to establish relative elevation differences between test locations and should not be used for other purposes such as grading, excavation, planning, development, etc.

Any comments given in this report on potential remediation problems and possible methods are intended only for the guidance of the designer. The scope of work may not be sufficient to determine all of the factors that may affect construction or clean-up methods and costs.

Any results from laboratory or other subcontractors reported herein have been carried out by others, and DST Consulting Engineers Inc. cannot warrant their accuracy. Similarly, DST cannot warrant the accuracy of information supplied by the Client or others.

Bell St Parking Lot

DATE: July 6, 2007

Completed by: Kellie Piché

Central Records file #: _____

PWGSC Property Review Standard

CSMP Objectives Background:

The success of PWGSC in achieving its contaminated sites management goal will be based on our ability to achieve these four specific objectives:

> **Objective 1**: To identify, document, and report contaminated sites and related liability that exist within the PWGSC crown-owned and lease to purchase real property inventory or other sites for which PWGSC has accepted responsibility.
>
> **Objective 2**: To complete a regular review of PWGSC's real property inventory for contaminated sites identification and management purposes, and for development of pollution prevention and other similar corrective action measures.
>
> **Objective 3**: To remediate known contaminated sites reported to the Federal Contaminated Sites Inventory (FCSI) to eliminate unacceptable risks or to apply a 'Brownfields First' development strategy, and risk manage remaining sites following due diligence.
>
> **Objective 4:** To implement procedures to identify and consider contaminated sites liabilities within the PWGSC real property transaction process.

Description of PWGSC Property Review Standard:

As per Objective 2 of the 2005 Contaminated Sites Management Plan, it is necessary to complete regular reviews of the PWGSC real property inventory to verify that contamination and related liability has not been created after the date on which CSMP Objective 1 was achieved for each particular property. Regular reviews will be completed for each property at least every 3 years following the initial assessment. The property review standard is designed to identify potential contamination that may have been caused by on-site or off-site activities/sources since the time that Objective 1 had been achieved, or if there have been changes to criteria, guidelines or a change to a more sensitive land use which necessitates further review of previous results and management decisions.

Furthermore, this review process will identify pollution prevention measures that may be necessary to avoid the creation of a contaminated site. The review involves evaluating hazardous materials handling and fuel storage tank maintenance procedures and identifies the specific operational improvements that are required to prevent pollution. Respective Property Managers are responsible for the implementation of measures identified to minimize the creation of new contaminated sites on the PWGSC real property inventory.

PART A: BASIC PROPERTY INFORMATION AND RECORDS REVIEW

Property Name/Address Northeast corner of Bell St and Carling Ave

DFRP#: 08887

Previous Review:

When was this property last reviewed? _____

Last review type completed:

CSMP Objective 2 Property Review: _____ Date Completed: _____
Other (describe): _____ Date Completed: _____

ESA Status: What is the highest level of ESA work been completed? (Check where appropriate):

Screening Level Review	✓	Date: July 2002
Phase I ESA	✓	Date: March 1996
Phase II ESA	✓	Date: November 1997
Phase III ESA	___	Date: _____
Risk Assessment	___	Date: _____
Remediation	___	Date: _____

Describe the property status type and management type in accordance to the table below: _____
NFAR as long as the site maintains its "present" state whereby the contaminants would remain immobile and encapsulated - SLR.

Status Type	Management Type
1 – Under Assessment	5 - Additional Assessment
2 – Under Remediation	2 - Remediation
3 – Remediation & Under Risk Management	4 - Periodic Monitoring
4 – Under Risk Management	4 – Periodic Monitoring
5 – Remediation Complete	9 - Other
6 – Remediation by 3rd party	2 - Remediation
(7) – Assessed, no action	9 - Other

Describe current/all ESA documentation data gaps and/or follow-up issues:
Since the identified contaminated soil (metals) is effectively encapsulated between the asphalt at ground surface and bedrock at approx 0.7 m below ground surface, the contaminants are not mobile, nor are they accessible to the public. - Phase II ESA.
→ the quality of the shallow fill is heterogenous across the entire site.

Applicable results of KPI and audit reports: No KPI

Confirm property ownership status from Geomatics and obtain updated legal plan (as required):
Ownership status: Owned.
Legal plans: Printed in Feb 2007. See DFRP files at CSD

PART B: INTERVIEW PROGRAM

Date:_____

Identify Relevant Persons for Collecting Information and for Interviews

The purpose of the interview program is to identify any changes since the time that Objective 1 was completed which may indicate the presence of areas of potential environmental concern (APEC) and contaminants of potential concern (COPC). The following includes recommendations for potential sources of information and space to record who was actually contacted:

TYPE OF INFORMATION	POTENITAL CONTACT	PERSON CONTACTED (Name/Title)	DATE CONTACTED
Environmental Audit, ESA and KPI Results	PWGSC, OGGO regional staff		
Land titles, property boundaries	Geomatics Services Directorate	Jean Lapointe.	May 2007
Property- and tenant-related information for PWGSC managed properties	PFM Property Manager regional contact	N/A	
Property- related information for AFD-managed facilities	Asset Performance Officers (APO)	N/A	
Operational Issues and Site Condition	PWGSC Site Superintendent or AFD Facility Manager or Site Superintendent	N/A	
Bridges, dams, other infrastructure	PWGSC Engineering Assets Portfolio	N/A	
Property Divestiture and/or Acquisition Plans	PWGSC Real Estate Services	Jean Lapointe	May 2007.
Various	Other departmental personnel		

*There is no PFM for this property because of the absence of a building/facility.

The following are questions for Property Managers, or other personnel possessing relevant knowledge of the site in question. This section is to be completed by an Environmental Officer based on an interview with all of the aforementioned sources of information.

*No interview was preformed due to lack of a PFM.

Name, department, and phone number of interviewee(s):

1)_____
2)_____
3)_____
4)_____

List any new documentation regarding environmental conditions at the property:

_____
_____
_____

*No interview was performed due to lack of a PEM.

NEW ON-SITE POTENTIAL SOURCE OF CONTAMINATION	YES/NO	IF "YES", DESCRIBE
Storage Tanks (AST and UST)	N	
Spills/ stained areas		
New fill		
Migration from neighboring site		
Pesticides	N	
Hazardous materials usage/storage		
Industrial activities	N	
Waste disposal or landfills		
Septic/wastewater/stormwater systems including ditches		
Wells	N	
Pits and lagoons	N	
Parking/vehicle storage	Y	
Change in property use	N	PWGSC Parking lot since 1950's (PHI)
Other:		
Other:		
Other:		

Based on a site reconnaissance

To the best of your knowledge, are there any of the following potential sources of contamination or environmental concerns associated with neighboring sites?

NEW OFF-SITE POTENTIAL SOURCE OF CONTAMINATION	YES/NO	IF "YES", DESCRIBE
Storage Tanks (AST and UST)		
Spills/ stained areas		
New fill		
Migration from neighboring site		
Pesticides		
Hazardous materials usage/storage	Y	Rail yard and metal research facility to the west. (PNI ESA)
Industrial activities		
Waste disposal or landfills		
Septic/wastewater/stormwater systems including ditches		
Wells		
Pits and lagoons		
Parking/vehicle storage		
Change in property use		
Other:		
Other:		
Other:		

Do you know of any other sources of environmental information regarding this property? Please provide information.

NAME	CONTACT PHONE NUMBER

General Notes:

PART C: SITE RECONNAISSANCE (IF REQUIRED)

Date of Site visit	PWGSC Project Number	Site Name:
July 6, 2007	497855	Bell St. Parking Lot

Civid Address
Corner of Bell St. and Carling Ave.

Facility Contact N/A.

Name	Position	Phone Number

FACILITY TENANT N/A.

Company / Department	Operation	Location	Area leased	Tenants since.

LOT DESCRIPTION

Estimated Lot Area / Dimensions:
1271 m^2

Lot Topography (e.g. gentle slope down to the north-west):
Sand covered w asphalt. - slopes to the south. - pavement flat
- Retaining wall at the north of the property

Regional Topography:
slopes toward southwest.

Regional surface water bodies, type and distance from site:
Rideau Canal Ottawa River (North 4km +)

Surface Cover type and % (e.g. asphalt- 10%/ landscape – 40%/ buildings – 50%):
90% asphalt 10% grass/vegetation (bush/trees)

Surface Drainage (e.g. to municipal storm drains, infiltration to exposed soils)
Approximate groundwater flow: Southwest.

- open pot holes/cracked pavement - southwest corner ≃ 1 m^2
- Several (3 or 4) smaller pot holes throughout the lot.
- irrigation of flowers on the East side of property. (drain pipes.

* See attached Memo

NEW AREAS OF POTENTIAL ENVIRONMENTAL CONCERN
Areas of staining: No
Areas of recent paving or patching: Some patching.
Areas of stressed vegetation: No
Evidence of fill: No
Evidence of dumping of waste materials: No
Odours: No
Wells / Sumps / Septic field: No
Evidence of USTs/ASTs – Vent/fill pipes, concrete pad: No
Hazardous material handling and storage No
Other (describe): No

PROPERTY PLAN SKETCH WITH FACILITIES
Indicate the relative position of the facilities (Building #1, relevant structures etc.), drains, tanks, sumps, ancillary equipment APECs and surface area use (paved, landscaped parking). **Note**: The previous ESA report completed for the property may be the best sources of property layout information and should be referred to and used when developing this updated plan.

PART D: SUMMARY AND RECOMMENDATIONS

SUMMARY RESULTS

☐ Check if N/A and no further action is required

APEC #	DESCRIPTION AND LOCATION (indicate if on-site or off-site)	SUSPECTED SOURCE	COPC(s)	POTENTIALLY AFFECTED MEDIA	GPS COORDINATES	ACTION PLAN SUMMARY
1	between pavement and bedrock		Metals	soil only		Repair asphalt or clean up soil

FURTHER ENVIRONMENTAL SITE ASSESSMENT OR OTHER ACTION REQUIRED

PROPOSED ACTION	YES/NO	NOTES	GROUP/PERSON RESPONSIBLE
ESA Action			
• Phase I ESA			
• Phase II ESA			
• Phase III ESA			
• Supplemental ESA			
• Monitoring			
• Other (specify)	✓	Repair surface or clean-up impacted soil (see memo)	↳ Michael Skwierecz (PWGSC)
Pollution Prevention Measures Required			
RAP/RMP Action			
Supplemental Risk Assessment			
Other:			
HAZMAT Handling & Storage Audit			
UST/AST Audit Required			
Hazardous Building Materials Survey			
Solid Waste Management Audit			
Wastewater/Stormwater System Inspection			
Maintenance Activities (i.e. clean out catchbasins)			
Other			

Attachments :

- Site Photographs
- Other relevant documentation

Memorandum

To: *Michael Skwiercz*
Cc: *Miguel Larivière*
From: *Kellie Piché*
Date: *August 13, 2007*
Subject: *Findings and Recommendations for Bell Street Parking Lot, DFRP: 08887*

Mr. Skwiercz,

This letter is being sent as a result of the findings from a recent site visit to the Bell Street parking lot. This visit is part of the Contaminated Sites Management Plan (CSMP) of Public Works and Government Services Canada (PWGSC) and was conducted by the PWGSC's Contaminated Sites Division on July 6, 2007. As the property manager of the site in question, please be advised of the following findings and recommendations.

Findings

The subject site is a 1 271 meter square parcel of land located on the corner of Carling Avenue and Bell Street, in Ottawa, Ontario, which currently serves as a parking lot. At the time of the visit, approximately half a dozen parked cars occupied the site. The site visit, as part of a PWGSC *Property Review Standard*, identified the following sources of potential environmental concerns:

- Damaged asphalt, including several large cracks and potholes, reaching sizes of up to approximately one meter square in some areas.

A Phase II Environmental Site Assessment of the Bell Street parking lot was done in November of 1997 and identified the soil contained "metal concentrations greater than the assessed criteria" (1997 CCME, 1991 CCME and 1997 MOEE guidelines). However, no further action was deemed necessary due to the fact that "the identified contaminated soil [was] encapsulated between the asphalt at ground surface and the bedrock at approximately 0.7 m below ground surface". This condition is no longer valid due to the poor condition of the asphalt, which could allow for possible seepage of surface water into the exposed contaminated soil. This could lead to the mobilization of the contaminants, possibly impacting the underlying groundwater and, possibly, the adjoining properties.

Recommendations

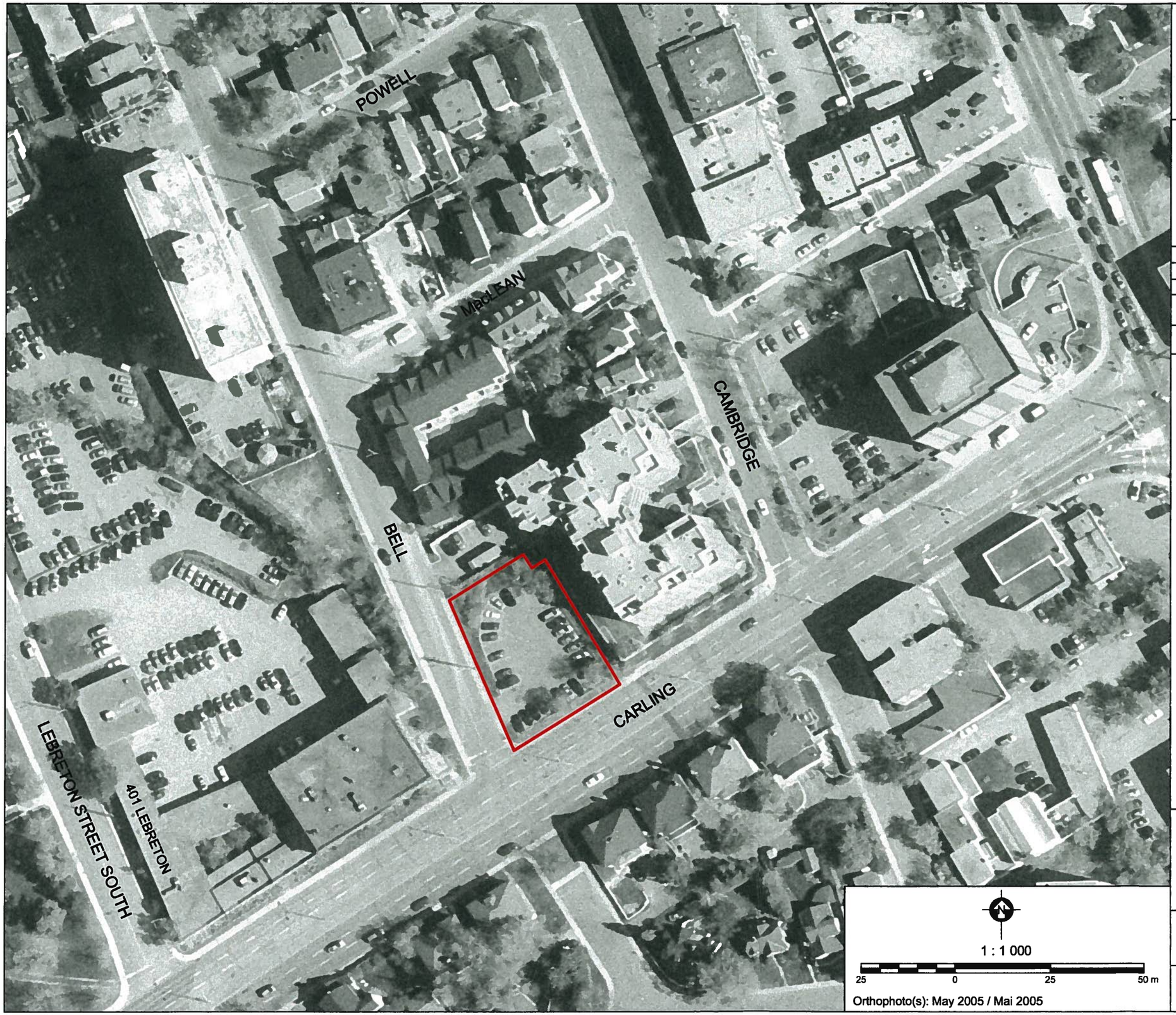
Based on the available information at this time, it is recommended that the asphalt be patched and sealed where cracks and potholes are observed. As an alternative, the identified contaminated soil could be excavated, removed from the property, disposed-of at a registered facility, and replaced with compacted, imported, clean fill.

I trust that this memo meets your requirements. If you have any questions on the enclosed, please do not hesitate to contact the undersigned.

Best Regards,
PWGSC-Contaminated Sites Division

Kellie Piché
Junior Contaminated Sites Analyst

Miguel Larivière P. Eng.
Contaminated Sites Engineer



Public Works and Government Services Canada
National Capital Area
Geomatics Directorate

Travaux publics et Services gouvernementaux Canada
Région de la Capitale Nationale
Direction Géomatique

Site Name / Nom de l'emplacement

Vacant Land / Parking
Terrain vacant / Stationnement

Site Address / Adresse de l'emplacement

Carling Avenue & Bell Street

City, Province / Ville, Province

Ottawa, Ontario

DFRP Property Number	08887	Numéro du bien RBIF
Type of interest	Owned / Bien possédé	Type de participation
Law Record Number	4025-0-1	Numéro du registre foncier
Last cadastral update / Dernière mise à jour cadastrale	April 1999 / Avril 1999	
Lands Dealt With Bounded Thus / Terrain affecté par ce plan		

Description:
Lot 10, part of Lots 8, 9 and 11, Concession 1, Ottawa Front.

Under the Authority of:
P.C. 1971-11/1139 TBM 704378 dated August 6, 1971.

Deed Reference Number:
607523.

Description:
Lot 10 et une partie des lots 8, 9 et 11, Concession 1, Ottawa Front.

Sous l'autorité de:
C.P. 1971-11/1139, CT 704378 en date du 6 août, 1971.

Numéro de référence de l'acte :
607523.

Owned		Propriété
Plan(s)	5R-4231	Plan(s)
Part(s)	1	Partie(s)
PWGSC Plan	1886	Plan TPSGC
Area (square metres)	1 271	Superficie du terrain (mètres carrés)

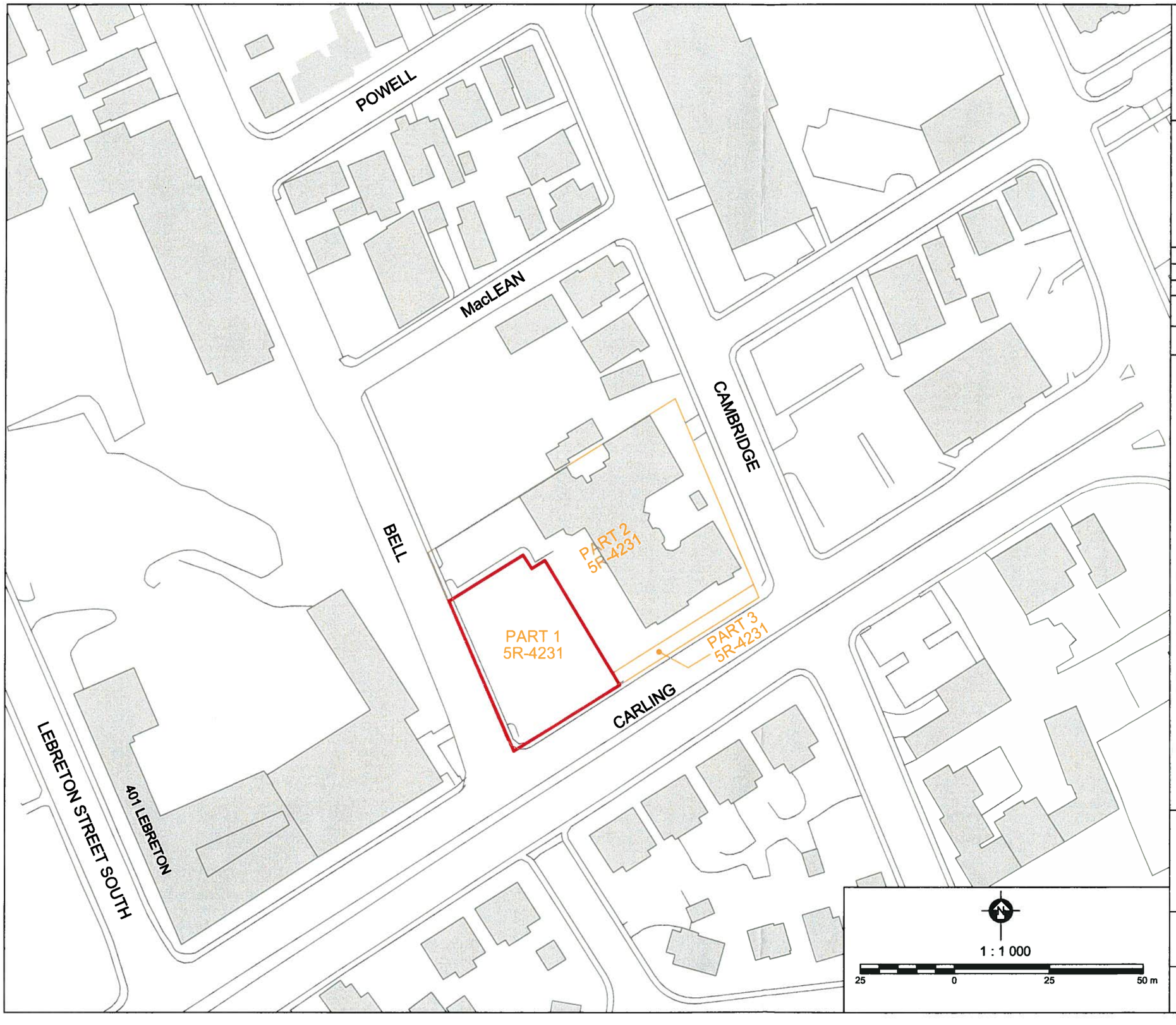
1 : 1 000

25 0 25 50 m

Orthophoto(s): May 2005 / Mai 2005

Note: Due to the projection of the photograph and the height of the structures, structure locations may seem false.
Note: Dû à l'angle de prise de vue et la hauteur des constructions, la position de ces dernières peut sembler fausse.

This compiled plan is not a legal plan of survey or a legal document and was prepared for illustration purposes only.
Ce plan de compilation n'est pas un document légal ou un plan d'arpentage et a été préparé pour des fins d'illustration seulement.



Public Works and Government Services Canada
National Capital Area
Geomatics Directorate

Travaux publics et Services gouvernementaux Canada
Région de la Capitale Nationale
Direction Géomatique

Site Name / Nom de l'emplacement

Vacant Land / Parking
Terrain vacant / Stationnement

Site Address / Adresse de l'emplacement

Carling Avenue & Bell Street

City, Province / Ville, Province

Ottawa, Ontario

DFRP Property Number	08887	Numéro du bien RBIF
Type of interest	Owned / Bien possédé	Type de participation
Law Record Number	4025-0-1	Numéro du registre foncier
Last cadastral update / Dernière mise à jour cadastrale	April 1999 / Avril 1999	
Lands Dealt With Bounded Thus / Terrain affecté par ce plan		

Description:
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Owned		Propriété
Plan(s)	5R-4231	Plan(s)
Part(s)	1	Partie(s)
PWGSC Plan	1886	Plan TPSGC
Area (square metres)	1 271	Superficie du terrain (mètres carrés)

INTERA Consultants Ltd. • 265 Carling Ave., Suite 208 • Ottawa, Ontario • K1S 2E1 • Tel: (613) 232-2525 • Fax: (613) 232-7149

Phase II Environmental Site Assessement of the Bell Street Parking Lot Ottawa, Ontario

Final Report

Prepared for

Public Works and Government Services Canada
Environmental Services Section

Prepared by

INTERA Consultants Limited
Ottawa, Ontario

97-237

November 13, 1997

EXECUTIVE SUMMARY

The Bell Street Parking Lot is a Public Works and Government Services Canada (PWGSC) owned parking lot located at the north east corner of Bell Street and Carling Avenue, in Ottawa, Ontario. A Phase I environmental site assessment (ESA) indicated that historical land use on the Bell Street Parking Lot and on adjacent properties posed potential for impact to the quality of soil and groundwater.

Field investigations were carried out to assess the quality of soil and groundwater on the subject property, and in the context of likely future sale of the property, to recommend any necessary remedial action.

Five boreholes were drilled on the subject property, and two of the boreholes were instrumented with groundwater monitoring wells. Field evidence of contamination was noted during the field investigations, and was used to select representative samples of soil and groundwater for laboratory analysis.

The geology of the site was determined to consist of a thin layer (approximately 0.7 m) of fill, overlying shaley limestone. The only significant field evidence of contamination was the presence of staining, and debris in the shallow soil fill.

The most stringent of either CCME or MOEE soil quality guidelines for residential/parkland land use were selected as soil assessment criteria for the Bell Street Parking Lot.

Laboratory analysis of the shallow fill indicated the presence of heavy metals, primarily lead, molybdenum, barium, copper, and zinc. The results indicated that the majority of the soil was contaminated to levels marginally above the soil assessment criteria. One soil sample, however, contained lead at a concentration of six times the criteria.

Laboratory analysis of groundwater indicated that the groundwater has not been significantly impacted by current or former land use.

It was concluded that the quality of the shallow fill is heterogeneous across the entire site, and that metals concentrations at any given point may exceed the assessment criteria. It was also concluded that while the site is maintained in its present state, the contaminants are immobile and encapsulated, and that there is no apparent regulatory requirement for remediation. If, based on internal policy or economic evaluation, remediation is chosen as the preferred option, INTERA recommends the following remedial method:

- Excavation of the approximately 850 m^3 of potentially contaminated fill, on-site sorting based on visual evidence of contamination, and off-site disposal of the contaminated portion of the excavated soil.

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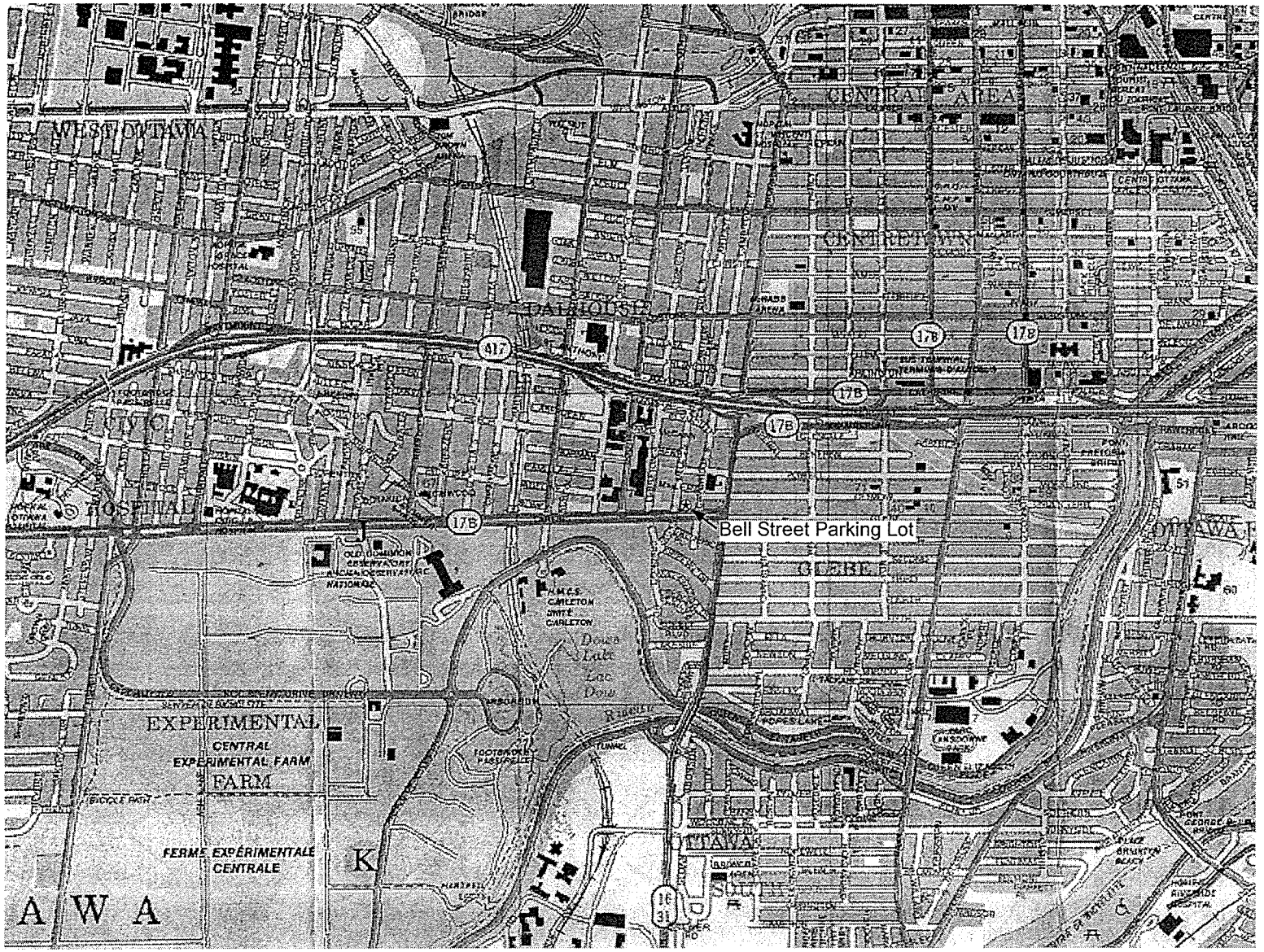
1. INTRODUCTION

The Bell Street Parking Lot is a Public Works and Government Services Canada (PWGSC) owned parking lot located at the north east corner of Bell Street and Carling Avenue, in Ottawa, Ontario. The site location is shown in Figure 1. The property was the subject of a Phase I Environmental Site Assessment (ESA) conducted in March 1996 (Ecological Services for Planning Ltd., 1996). The Phase I ESA determined that the property had various uses since its development. The land was originally used as part of a quarry. From the 1930's until the early 1950's, the property was used as part of a works yard for the "Ottawa Suburban Roads Commission". From the late 1950's until the present, the property was used as a PWGSC parking lot. These land uses, as well as adjacent land uses such as a rail yard and metals research facility, both to the west, pose some potential for impact to the quality of soil and groundwater on the subject property.

The purpose of this Phase II ESA was to assess the quality of soil and groundwater on the subject property, and to provide recommendations for remediation of contaminated soil or groundwater, if necessary. The context for this Phase II ESA is that the land will likely be put on the market for sale.



Bell Street Parking Lot - Site Location

Figure 1 97-237	27 October 1997 AW loc_bel.cdr

0 0.5 1.0 2.0 km

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2. FIELD INVESTIGATIONS

The field investigations consisted of the drilling of boreholes, sampling of soil and rock, installation of monitoring wells, sampling of groundwater, and submission of representative samples of soil and groundwater for chemical analysis. The field investigations are described in further detail in the following paragraphs.

2.1 Pre-Investigation Activities

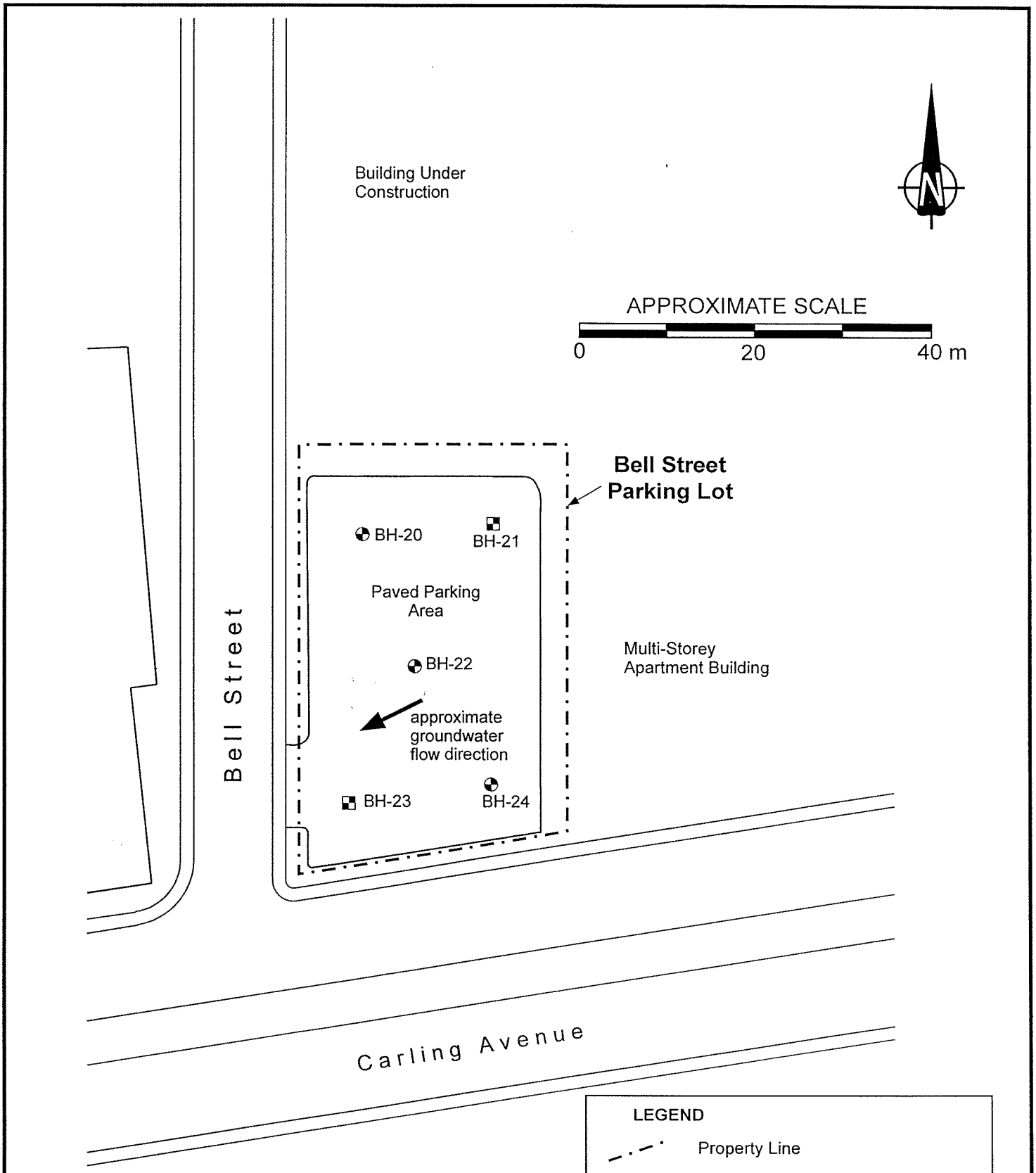
Pre-investigation activities consisted of a review of existing data, site inspection, and location of underground utilities for the purpose of determining appropriate borehole and monitoring well locations.

The data review consisted of a detailed inspection of the Phase I ESA report. A site inspection was carried out on September 17, 1997. Borehole locations were marked during the site inspection. Following the marking of borehole locations, underground utility clearances were obtained from utility companies and PWGSC.

2.2 Borehole Drilling and Soil Sampling

Drilling and soil sampling was completed on September 25, 1997 by George Downing Estate Drilling Ltd, using a truck-mounted soil augering rig with hollow stem augers and split spoon samplers. A total of five (5) boreholes were drilled at the Bell Street parking lot. Borehole locations are shown in Figure 2. Downhole equipment was cleaned between samples and boreholes to prevent cross contamination of samples. During drilling, continuous soil samples were collected and logged in the field for soil type, colour, and visual and olfactory evidence of contamination. Soil samples were screened for headspace combustible vapours and organic vapours with a Gastech Tracetechtor (combustible gas indicator or CGI), and a PE Photovac 2020 Photoionization Detector (organic vapour meter or PID), respectively. These instruments, which detect vapours produced by soil, are used to provide an indication of organic contamination. Stratigraphic descriptions and headspace vapour measurements of recovered soil samples are shown on stratigraphic logs in Appendix A.

Three of the five boreholes (BH-20, BH-22, and BH-24) were drilled to refusal on bedrock (approximately 0.7 m below ground surface). Two of the five boreholes (BH-21, and BH-23) were drilled to a total depth of approximately 3 to 4 m below ground surface. Diamond coring was used to drill into bedrock. Cores were recovered, and inspected for fracture presence, spacing, orientation, and staining. RQD (Rock Quality Designation) was determined for each core run.



Bell Street Parking Lot Site Layout	
Figure 2 97-237	15 Sept 1997 AW plan_bel.cdr

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2.3 Monitoring Well Installation

Upon completion of drilling, monitoring wells were installed in two boreholes (BH-21, and BH-23). The locations of the monitoring wells are shown in Figure 2. Monitoring well screens were installed to straddle the water table. Wells consisted of 38 mm diameter by 3 m long PVC screens and risers cut to length. The annular space adjacent to well screens was backfilled with clean, coarse silica sand. The annular space adjacent to risers was backfilled with bentonite seals and drill cuttings. Wells were finished at ground surface with flush, water-proof steel casings. All wells were surveyed for elevation relative to an arbitrary site datum. The completion details of the monitoring wells are shown on the appropriate borehole logs included in Appendix A.

2.4 Groundwater Sampling

All groundwater sampling activities were conducted on September 29, 1997. Prior to groundwater sampling water levels were measured in all monitoring wells using an electronic water level tape.

Groundwater samples were collected using dedicated inertial hand pumps. A minimum of three (3) well volumes were purged from each well prior to sampling. Low yield wells were purged dry a minimum of three times and sampled as the water level recovered. Any field evidence of contamination was noted during purging. Purge water was assessed for the presence of odour, sheen, and separate-phase liquids. These observations were used in the selection of samples for chemical analysis.

Samples for volatiles analysis were collected in pre-cleaned, laboratory-supplied 40 mL vials, while samples for non-volatiles were collected in 1 L bottles.

2.5 Analytical Program

Samples representative of on-site soil and groundwater conditions were submitted for chemical analyses in appropriate glass sample containers precleaned by the analytical laboratory. In general, all soil samples with staining or other evidence of contamination were submitted for metals analysis. Soil samples with elevated CGI readings were submitted for benzene, toluene, ethylbenzene and xylene (BTEX), and total petroleum hydrocarbon (TPH) analysis. Soil samples with elevated organic vapour meter readings, black "tarry" staining, and those containing wooden debris (possibly containing creosote) were submitted for polycyclic aromatic hydrocarbons (PAH) analysis. These sample selection criteria were developed based on experience at similar sites in the area.

All groundwater samples were submitted for BTEX/TPH, while a selected number were submitted for volatile organic compounds (VOCs) and PAHs.

Samples were submitted to Paracel Laboratories of Ottawa, a CAECL accredited laboratory.

3. RESULTS

3.1 Site Geology and Hydrogeology

The site geology consists of a thin layer of fill overlying shaley limestone. Fill thicknesses ranged from 0.51 to 0.83 m, with an average fill thickness of 0.66 m. The fill was typically black, brown, or orange stained sand. The limestone bedrock was grey with frequent mud seams, and shaley interbeds. Fractures were present in the recovered cores, with greater fracture frequency in the upper 2 m of bedrock.

The results of the water level survey are presented in Table 1. These results indicate that the water table is located within the upper 1 m of bedrock (within 2 m of ground surface). Based on topography and other available information, it is most likely that the direction of groundwater flow is towards the apartment building to the east or towards 401 LeBreton Street to the the west or southwest.

No significant odour or visual evidence of contamination was noted on the groundwater. Groundwater from BH-23 was, however, slightly foamy (foaminess can sometimes indicate organic-type contamination).

Table 1 Water Level Survey Results (September 29, 1997)

	Ground Surface Elevation (m ASD)	PVC Top Stick-Up (m)	PVC Top Elevation (m ASD)	Water Level (m BPT)	Water Table Elevation (m ASD)
BH-21	100.07	-0.07	100.00	1.70	98.30
BH-23	99.52	-0.05	99.47	0.88	98.59

Note: BH-21 PVC Top chosen as 100.00 m above abitrary site datum.
"Stick-Up" is distance of PVC top above ground surface

3.2 Soil and Groundwater Assessment Criteria

The soil and groundwater assessment criteria chosen for this site are as follows:

Soil

- Guideline for Use at Contaminated Sites in Ontario, Ontario Ministry of the Environment and Energy, June 1996. Table B, Surface soil criteria for residential/parkland land use for a nonpotable groundwater condition.

- Recommended Canadian Soil Quality Guidelines, Canadian Council of Ministers of the Environment, March 1997. Guideline for residential/parkland land use.

- Interim Canadian Environmental Quality Criteria for Contaminated Sites, Canadian Council of Ministers of the Environment, September 1991. Interim remediation criteria for soil, residential/parkland land use.

Soil guidelines for residential/parkland land use were chosen because the land is zoned as residential. The 1997 CCME soil quality guidelines are only available for a limited number of parameters. For parameters for which no 1997 guideline exists, the 1991 CCME interim guidelines were used.

Groundwater

- Guideline for Use at Contaminated Sites in Ontario, Ontario Ministry of the Environment and Energy, June 1996. Table B, groundwater criteria for a nonpotable groundwater condition.

- Interim Canadian Environmental Quality Criteria for Contaminated Sites, Canadian Council of Ministers of the Environment, September 1991. Remediation criteria for drinking water.

For the assessment of soil and groundwater quality, an "exceedence" was considered to be an analytical result that was greater than the most stringent of the available assessment criteria. This approach was used because, when the future land use is not precisely known, it is prudent to consider the most stringent criteria as that which may eventually be applied.

3.3 Soil Analytical Results and Discussion

Soil analytical results for metals, BTEX, and PAH are presented in Tables 2, 3, and 4, respectively. The MOEE and CCME soil assessment criteria are also presented in these tables. Soils with concentrations higher than either the CCME or MOEE assessment criteria are highlighted in large bold text.

Table 2 indicates that one sample of shallow fill from each of the five boreholes (BH-20, 21, 22, 23, and 24) was submitted for metals analysis. The table indicates that the soil samples from three of the five boreholes contained metals in exceedence of either the CCME or MOEE criteria. Soil from BH-20 (14µg/g) and BH-21 (12µg/g) both contain molybdenum in excess of the 10µg/g CCME assessment criteria, but less than the 40 µg/g MOEE assessment criteria. No other exceedences were detected in these two soil samples. Soil from BH-23 contained lead (1200µg/g) at a concentration in excess of both the 140 µg/g CCME, and the 200 µg/g MOEE assessment criteria. Exceedences of barium, copper and zinc were also detected in this soil sample. Concentrations of these three parameters all exceeded the CCME assessment criteria, but were less than the MOEE assessment criteria.

Table 2 Soil Analytical Results - Metals

Borehole Depth	Units	MDL	BH-20 0.15-0.76	BH-21 0.15-0.76	BH-22 0.15-0.76	BH-23 0.15-0.76	BH-24 0.15-0.76	MOEE Table B	CCME res/park
Aluminum	µg/g	1.0	4800	10000	12000	14000	4200	na	na
Barium	µg/g	1.0	200	500	310	**650**	59	750	500
Beryllium	µg/g	1.0	1	1	1	1	0	1.2	4
Cadmium	µg/g	0.50	nd	nd	nd	nd	nd	12	5
Calcium	µg/g	100	49000	68000	42000	78000	110000	na	na
Chromium	µg/g	1.0	12	12	13	18	9	750	64
Cobalt	µg/g	1.0	6	4	nd	nd	5	40	63
Copper	µg/g	1.0	26	16	31	**75**	14	225	63
Iron	µg/g	1.0	25000	27000	32000	32000	16000	na	na
Lead	µg/g	1.0	65	100	96	***1200***	110	200	140
Magnesium	µg/g	100	4600	7000	2800	7200	27000	na	na
Manganese	µg/g	1.0	200	200	180	410	260	na	na
Molybdenum	µg/g	1.0	**14**	**12**	4	5	4	40	10
Nickel	µg/g	1.0	11	13	18	15	10	150	100
Potassium	µg/g	100	nd	nd	500	700	1000	na	na
Silver	µg/g	1.0	nd	nd	nd	nd	nd	20	20
Sodium	µg/g	25	400	600	550	750	400	na	na
Strontium	µg/g	1.0	110	290	190	240	120	na	na
Thallium	µg/g	4.0	na	na	nd	nd	na	4.1	na
Vanadium	µg/g	1.0	14	18	26	27	10	200	130
Zinc	µg/g	1.0	83	70	55	**220**	70	600	200

MDL = Method detection limit (or lowest practical quantitation limit)
nd = Not detected (or lower than MDL)
na = Not available

MOEE Table B Guideline for Use at Contaminated Sites in Ontario, Ontario Ministry of the Environment and Energy, June 1996. Table B, Surface soil criteria for residential/parkland land use for a nonpotable groundwater condition.

CCME res/park Canadian Soil Quality Guidelines, Canadian Council of Ministers of the Environment, March 1997. Guideline for residential/parkland land use.

-or where 1997 guidelines do not exist-

Interim Canadian Environmental Quality Criteria for Contaminated Sites, Canadian Council of Ministers of the Environment, September 1991. Interim remediation criteria for soil, residential/parkland land use.

220 Large bold text - exceeds CCME criteria only

1200 Large bold italic text - exceed CCME and MOEE criteria

Table 3 Soil Analytical Results - BTEX/TPH

Borehole Depth	Units	MDL	BH-21 0.15-0.76	MOEE Table B	CCME res/park
Benzene	ug/g	0.038	nd	5.3	0.5
Ethylbenzene	ug/g	0.038	nd	34	1.2
Toluene	ug/g	0.038	nd	290	0.8
m/p-Xylene	ug/g	0.038	nd	na	na
o-Xylene	ug/g	0.038	nd	na	na
Xylenes (m/p+o)	ug/g	0.038	nd	34	1
C5-C10 Petroleum Hydrocarbons	ug/g	10	nd	na	na
C10-C24 Petroleum Hydrocarbons	ug/g	10	nd	na	na
Total Petroluem Hydrocarbons	ug/g	10	nd	1000	na

Table 4 Soil Analytical Results - PAHs

Borehole Depth	Units	MDL	BH-21 0.15-0.76	MOEE Table B	CCME res/park
Acenaphthene	ug/g	0.0035	nd	1000	na
Acenaphthylene	ug/g	0.0035	0.033	100	na
Anthracene	ug/g	0.0035	0.033	28	na
Benzo[a]anthracene	ug/g	0.0035	0.23	40	1
Benzo[a]pyrene	ug/g	0.0035	0.23	1.2	0.7
Benzo[b+k]fluoranthene	ug/g	0.0070	0.26	12	1
Benzo[ghi]perylene	ug/g	0.0035	0.099	40	na
Biphenyl	ug/g	0.0035	0.066	4.3	na
Chrysene	ug/g	0.0035	0.26	12	na
Dibenzo[a,h]anthracene	ug/g	0.0035	nd	1.2	1
Fluoranthene	ug/g	0.0035	0.26	40	na
Fluorene	ug/g	0.0035	nd	350	na
Indeno[1,2,3-cd]pyrene	ug/g	0.0035	0.066	12	1
1-Methylnaphthalene	ug/g	0.0035	0.63	280	na
2-Methylnaphthalene	ug/g	0.0035	0.69	280	na
Naphthalene	ug/g	0.0035	0.46	40	0.6
Phenanthrene	ug/g	0.0035	0.46	40	5
Pyrene	ug/g	0.0035	0.3	250	10

MDL = Method detection limit (or lowest practical quantitation limit)

nd = Not detected (or lower than MDL)

na = Not available

MOEE Table B Guideline for Use at Contaminated Sites in Ontario, Ontario Ministry of the Environment and Energy, June 1996. Table B, Surface soil criteria for residential/parkland land use for a nonpotable groundwater condition.

CCME res/park Canadian Soil Quality Guidelines, Canadian Council of Ministers of the Environment, March 1997. Guideline for residential/parkland land use.

-or where 1997 guidelines do not exist-

Interim Canadian Environmental Quality Criteria for Contaminated Sites, Canadian Council of Ministers of the Environment, September 1991. Interim remediation criteria for soil, residential/parkland land use.

Table 3 indicates that only soil from BH-21 was submitted for BTEX/TPH analysis. This sample was submitted because of a high combustible vapour reading. The analytical results presented in Table 3 indicate that BTEX/TPH was not detected in the sample.

Table 4 indicates that only soil from BH-21 was submitted for PAH analysis. This sample was submitted because of black staining. The analytical results indicate that PAHs were detected, but that the concentrations do not exceed CCME or MOEE assessment criteria.

The soil analytical results generally indicate that the only contaminants of concern at the Bell Street Parking Lot are metals. The results indicate that the majority of the soil analysed was contaminated to levels marginally above applicable soil guidelines for residential/parkland land use. One soil sample out of the five submitted was contaminated to levels significantly above applicable soil guidelines (the 1200 µg/g of lead in BH-23 is six times the CCME criteria for lead).

3.4 Groundwater Analytical Results and Discussion

Groundwater analytical results for BTEX, PAHs, and VOCs are presented in Tables 5, 6, and 7, respectively. The tables indicate that groundwater from both BH-21 and BH-23 was analysed for BTEX/TPH, while only groundwater from BH-23 was analysed for PAHs and VOCs. The tables indicate that none of the analysed parameters were detected in the groundwater samples.

Table 5 Groundwater Analytical Results - BTEX

Borehole	Units	MDL	BH-21	BH-23
Benzene	mg/L	0.0005	nd	nd
Ethylbenzene	mg/L	0.0005	nd	nd
Toluene	mg/L	0.0010	nd	nd
m/p-Xylene	mg/L	0.0010	nd	nd
o-Xylene	mg/L	0.0005	nd	nd
Xylenes (m/p+o)	mg/L	0.0005	nd	nd
C5-C10 Petroleum Hydrocarbons	mg/L	0.10	nd	nd
C10-C24 Petroleum Hydrocarbons	mg/L	0.10	nd	nd
Total Petroleum Hydrocarbons	mg/L	0.10	nd	nd

MDL = Method detection limit (or lowest practical quantitation limit)
nd = Not detected (or lower than MDL)
na = Not available

Table 6 Groundwater Analytical Results - PAHs

Borehole	Units	MDL	BH-23
Acenaphthene	ug/L	0.10	nd
Acenaphthylene	ug/L	0.10	nd
Anthracene	ug/L	0.10	nd
Benzo[a]anthracene	ug/L	0.10	nd
Benzo[a]pyrene	ug/L	0.010	nd
Benzo[b+k]fluoranthene	ug/L	0.20	nd
Benzo[ghi]perylene	ug/L	0.10	nd
Biphenyl	ug/L	0.10	nd
Chrysene	ug/L	0.10	nd
Dibenzo[a,h]anthracene	ug/L	0.10	nd
Fluoranthene	ug/L	0.10	nd
Fluorene	ug/L	0.10	nd
Indeno[1,2,3-cd]pyrene	ug/L	0.10	nd
1-Methylnaphthalene	ug/L	0.10	nd
2-Methylnaphthalene	ug/L	0.10	nd
Naphthalene	ug/L	0.10	nd
Phenanthrene	ug/L	0.10	nd
Pyrene	ug/L	0.10	nd

MDL = Method detection limit (or lowest practical quantitation limit)

nd = Not detected (or lower than MDL)

Table 7 Groundwater Analytical Results - VOCs

Borehole	Units	MDL	BH-23
Benzene	mg/L	0.0005	nd
Bromodichloromethane	mg/L	0.0004	nd
Bromoform	mg/L	0.0008	nd
Bromomethane	mg/L	0.0010	nd
Carbon Tetrachloride	mg/L	0.0005	nd
Chlorobenzene	mg/L	0.0004	nd
Chloroethane	mg/L	0.0010	nd
Chloroform	mg/L	0.0006	nd
Chloromethane	mg/L	0.0030	nd
Dibromochloromethane	mg/L	0.0005	nd
1,2-Dibromoethane	mg/L	0.0010	nd
m-Dichlorobenzene	mg/L	0.0004	nd
o-Dichlorobenzene	mg/L	0.0004	nd
p-Dichlorobenzene	mg/L	0.0004	nd
1,1-Dichloroethane	mg/L	0.0005	nd
1,2-Dichloroethane	mg/L	0.0005	nd
1,1-Dichloroethylene	mg/L	0.0006	nd
c-1,2-Dichloroethylene	mg/L	0.0004	nd
t-1,2-Dichloroethylene	mg/L	0.0010	nd
1,2-Dichloropropane	mg/L	0.0007	nd
c-1,3-Dichloropropene	mg/L	0.0004	nd
t-1,3-Dichloropropene	mg/L	0.0005	nd
Ethylbenzene	mg/L	0.0005	nd
Methylene Chloride	mg/L	0.0040	nd
Styrene	mg/L	0.0004	nd
1,1,2,2-Tetrachloroethane	mg/L	0.0006	nd
Tetrachloroethylene	mg/L	0.0005	nd
Toluene	mg/L	0.0010	nd
1,1,1-Trichloroethane	mg/L	0.0004	nd
1,1,2-Trichloroethane	mg/L	0.0006	nd
Trichloroethylene	mg/L	0.0004	nd
Trichlorofluoromethane	mg/L	0.0010	nd
1,3,5-Trimethylbenzene	mg/L	0.0005	nd
Vinyl Chloride	mg/L	0.0005	nd
m/p-Xylene	mg/L	0.0010	nd
o-Xylene	mg/L	0.0005	nd

MDL = Method detection limit (or lowest practical quantitation limit)

nd = Not detected (or lower than MDL)

4. CONCLUSIONS

The following conclusions have been made from the data collected during the course of this Phase II environmental site assessment of the Bell Street Parking Lot:

- The most stringent of either the 1997 CCME soil quality guidelines, the 1991 CCME interim remediation criteria, or the 1997 MOEE surface soil criteria (residential/parkland land use) were selected as the soil assessment criteria for the Bell Street Parking Lot. The most stringent criteria were chosen since these criteria may be applied by other parties in the future to determine the desirability of the land for development.

- A layer of fill approximately 0.7 m thick is contaminated to varying levels with heavy metals. Three out of five boreholes (BH-20, BH-21, and BH-23) were determined to contain soil with metals concentrations greater the assessment criteria. Spacial distribution of concentrations of metals in this soil are heterogeneous. The range of metals concentrations in soil across the site is likely similar to that encountered in the five boreholes, but prediction of actual metals concentrations at a given point (outside the five boreholes) is not possible.

- Assuming that all fill that exists on the site may contain metals at levels greater than the assessment criteria, a volume of approximately 850 m^3 of soil would require remediation in order to bring the soil quality to below the assessment criteria. For this volume of soil, the most cost-effective remedial measure would likely be excavation, on site sorting based on evidence of contamination, and off-site disposal of the contaminated portion of excavated soil.

- BTEX/TPH was not detected in soil at this site.

- PAHs are present in soil at levels below the assessment criteria.

- Groundwater at the site has not been significantly impacted by current or former land use.

- Since the identified contaminated soil is effectively encapsulated between the asphalt at ground surface and the bedrock at approximately 0.7 m below ground surface, the contaminants are not mobile, nor are they accessible to the public. The contaminated soil does not represent an adverse impact to human health or the environment. For this reason, while the site is maintained in its present state, there is no apparent regulatory requirement for remediation of the contaminated soil.

5. RECOMMENDATIONS

Based on the conclusion that there is no apparent regulatory requirement for remediation of the contaminated soil, decisions regarding its remediation should be made based on internal policy, or on economic evaluation. If remediation of the soil is considered to be the preferred course of action for this site, we recommend the following remedial method:

- Excavation of the identified volume of contaminated fill (upper limit of 850 m^3), on-site sorting based on visual evidence of contamination, and off-site disposal of the contaminated portion of the excavated soil.

6. REFERENCES

Canadian Council of Ministers of the Environment, **Recommended Canadian Soil Quality Guidelines**, March 1997.

Canadian Council of Ministers of the Environment, **Interim Canadian Environmental Quality Criteria for Contaminated Sites,** September 1991.

Ecological Services for Planning Ltd., **Phase I Environmental Site Assessement, Booth Street Complex, 401 LeBreton Street and 588 Booth Street, Ottawa, Ontario.** PWGSC Project Number 708222, March, 1996.

Ontario Ministry of the Environment and Energy, **Guideline for Use at Contaminated Sites in Ontario**. June 1996.

7. CLOSURE

This report has been prepared for the exclusive use of Public Works and Government Services Canada using a methodology for conducting an environmental site assessment that is acceptable within the profession. Data obtained from test pit, borehole and/or monitoring well investigations represent the conditions about a limited area surrounding the sampling location and as such can be expected to be variable with respect to location and time. It should be noted that results of an investigation of this type should in no way be construed as a warranty that the site is free from any and all contamination from past or current practices.

INTERA Consultants Ltd. has exercised professional judgement in collecting and analyzing the information and in formulating recommendations based on the results of the study. The evaluation and conclusions contained in the report have been prepared on the basis of conditions in evidence at the time of site investigation and on the basis of information provided to INTERA. Accordingly INTERA cannot accept responsibility for any deficiency, misstatement or inaccuracy contained in this report as a result of misstatements, omissions, misrepresentations, or fraudulent acts of persons providing information.

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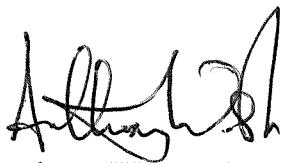
Respectfully Submitted,



Anthony West, P. Eng.
Project Engineer

Appendix A - Borehole Logs

BOREHOLE STRATIGRAPHIC AND INSTRUMENTATION LOG

Project No.:	97-237	Borehole No.:	BH-22
Client:	PWGSC	Date Completed:	September 25, 1997
Location:	401 LeBreton Street	Drilling Method:	Hollow Stem Auger
Ground Surface Elevation:		Drill Supervisor:	K.B.T.

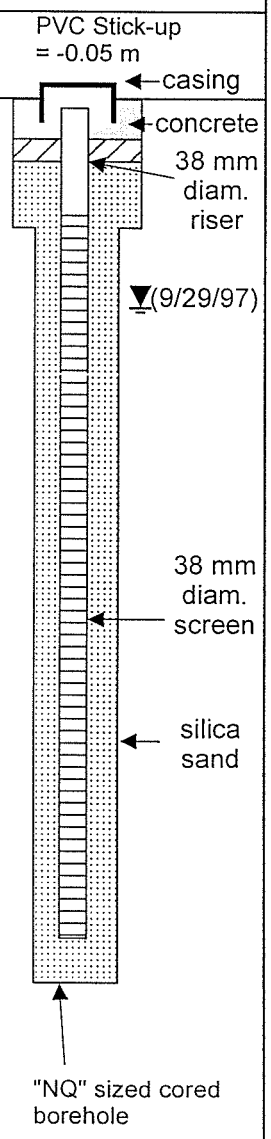
DEPTH (mBGS)	SAMPLE	BLOWS	CGI (ppm)	PID (ppm)	LOG	STRATIGRAPHIC DESCRIPTION	INSTALLATION
0		5 11 16 50+	14	0.0		FILL - brown clayey sand with stones overlying black and orange sand - no odour	
						Borehole terminated on bedrock @ 0.61 mBGS	
1							
2							
3							
4							
5							

INTERA

BOREHOLE STRATIGRAPHIC AND INSTRUMENTATION LOG

Project No.:	97-237	Borehole No.:	BH-23
Client:	PWGSC	Date Completed:	September 25, 1997
Location:	Bell Street Parking Lot	Drilling Method:	Hollow-Stem Auger/NQ Coring
Ground Surface Elevation:	99.52 mASD	Drill Supervisor:	K.B.T.

DEPTH (mBGS)	SAMPLE	BLOWS	CGI (ppm)	PID (ppm)	LOG	STRATIGRAPHIC DESCRIPTION
0						
		10 8	20	0.0		FILL - black and orange sandy gravel - no odour
1						LIMESTONE - black and grey shaley limestone with frequent mud seams - frequent fractures - RQD = 31%
2						- black and grey shaley limestone with frequent mud seams - frequent fractures - RQD = 66%
3						- black and grey shaley limestone with mud seams - fractured - RQD = 73%
4						**Borehole terminated in limestone @ 3.89 mBGS**
5						



INTERA

BOREHOLE STRATIGRAPHIC AND INSTRUMENTATION LOG

Project No.:	97-237	Borehole No.:	BH-22
Client:	PWGSC	Date Completed:	September 25, 1997
Location:	401 LeBreton Street	Drilling Method:	Hollow Stem Auger
Ground Surface Elevation:		Drill Supervisor:	K.B.T.

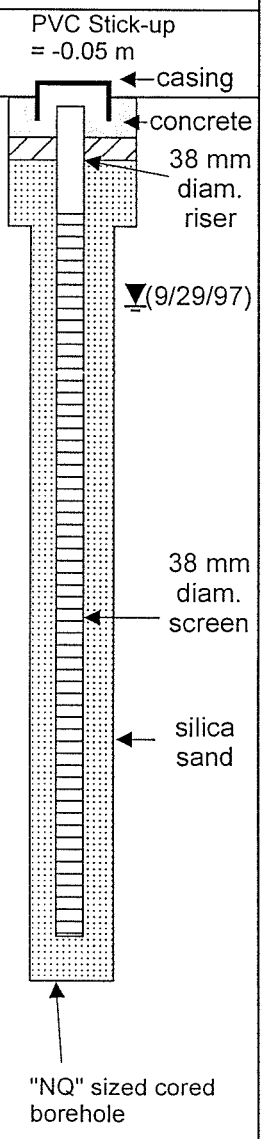
DEPTH (mBGS)	SAMPLE	BLOWS	CGI (ppm)	PID (ppm)	LOG	STRATIGRAPHIC DESCRIPTION	INSTALLATION
0							
		5 11 16 50+	14	0.0		FILL - brown clayey sand with stones overlying black and orange sand - no odour	
						Borehole terminated on bedrock @ 0.61 mBGS	
1							
2							
3							
4							
5							

INTERA

BOREHOLE STRATIGRAPHIC AND INSTRUMENTATION LOG

Project No.:	97-237	Borehole No.:	BH-23
Client:	PWGSC	Date Completed:	September 25, 1997
Location:	Bell Street Parking Lot	Drilling Method:	Hollow-Stem Auger/NQ Coring
Ground Surface Elevation:	99.52 mASD	Drill Supervisor:	K.B.T.

DEPTH (mBGS)	SAMPLE	BLOWS	CGI (ppm)	PID (ppm)	LOG	STRATIGRAPHIC DESCRIPTION
0						
		10 8	20	0.0		FILL - black and orange sandy gravel - no odour
1						LIMESTONE - black and grey shaley limestone with frequent mud seams - frequent fractures - RQD = 31%
2						- black and grey shaley limestone with frequent mud seams - frequent fractures - RQD = 66%
3						- black and grey shaley limestone with mud seams - fractured - RQD = 73%
4						**Borehole terminated in limestone @ 3.89 mBGS**
5						



INTERA

BOREHOLE STRATIGRAPHIC AND INSTRUMENTATION LOG

Project No.:	97-237	Borehole No.:	BH-24
Client:	PWGSC	Date Completed:	September 25, 1997
Location:	401 LeBreton Street	Drilling Method:	Hollow Stem Auger
Ground Surface Elevation:		Drill Supervisor:	K.B.T.

DEPTH (mBGS)	SAMPLE	BLOWS	CGI (ppm)	PID (ppm)	LOG	STRATIGRAPHIC DESCRIPTION	INSTALLATION
0							
		8 9 10 9	0	0.0		FILL - black and brown sand and stones - no odour - brown clayey sand overlying grey silty clay with stones	
1		6	50	0.0		- no odour, no staining **Borehole terminated on bedrock @ 0.84 mBGS**	
2							
3							
4							
5							

INTERA

Appendix B - Original Laboratory Data Sheets

Paracel Laboratories Ltd.

Order #C1495

Certificate of Analysis

Intera Consultants Ltd.
265 Carling Avenue, suite 208
Ottawa, Ontario K1S 2E1
Attn: Ms. Krista Trounce

Voice: 613-232-2525
Fax: 613-232-7149

Clients Ref:
Project: **97-237**
Reference:

Report Date: **10/07/97**
Order Date: **09/30/97**
Sample Date: **09/29/97**

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

Paracel ID	Client ID
C1495.1	BH-25
C1495.2	BH-23
C1495.3	BH-21
C1495.4	BH-17
C1495.5	BH-16
C1495.6	BH-1
C1495.7	BH-31
C1495.8	BH-8
C1495.9	BH-26

Approved By: D Robo-Tc. Dale Robertson, B.Sc.

Paracel Laboratories Ltd.

Certificate of Analysis

Date: **10/08/97**

Order # **C1495**

Client: **Intera Consultants Ltd.**

Client Ref:

Project: **97-237**

Note - DL is the lowest detection limit normally attainable by the laboratory and PQL is the lowest practical quantitation limit attainable for the sample. If the PQL is greater than the DL, the PQL levels apply to the sample.
- Run ID can be used to relate sample data to QC data when more than one QC run is included.

Sample ID: BH-25

Paracel ID: C1495.1

Matrix: Water

Date Sampled: 09/29/97

Parameter	Run ID	units	DL	PQL	Result
Benzene	JB15AA	mg/L	0.0005	0.0005	nd
Bromodichloromethane	JB15AA	mg/L	0.0004	0.0004	nd
Bromoform	JB15AA	mg/L	0.0008	0.0008	nd
Bromomethane	JB15AA	mg/L	0.0010	0.0010	nd
Carbon Tetrachloride	JB15AA	mg/L	0.0005	0.0005	nd
Chlorobenzene	JB15AA	mg/L	0.0004	0.0004	nd
Chloroethane	JB15AA	mg/L	0.0010	0.0010	nd
Chloroform	JB15AA	mg/L	0.0006	0.0006	nd
Chloromethane	JB15AA	mg/L	0.0030	0.0030	nd
Dibromochloromethane	JB15AA	mg/L	0.0005	0.0005	nd
1,2-Dibromoethane	JB15AA	mg/L	0.0010	0.0010	nd
m-Dichlorobenzene	JB15AA	mg/L	0.0004	0.0004	nd
o-Dichlorobenzene	JB15AA	mg/L	0.0004	0.0004	nd
p-Dichlorobenzene	JB15AA	mg/L	0.0004	0.0004	nd
1,1-Dichloroethane	JB15AA	mg/L	0.0005	0.0005	nd
1,2-Dichloroethane	JB15AA	mg/L	0.0005	0.0005	nd
1,1-Dichloroethylene	JB15AA	mg/L	0.0006	0.0006	nd
c-1,2-Dichloroethylene	JB15AA	mg/L	0.0004	0.0004	nd
t-1,2-Dichloroethylene	JB15AA	mg/L	0.0010	0.0010	nd
1,2-Dichloropropane	JB15AA	mg/L	0.0007	0.0007	nd
c-1,3-Dichloropropene	JB15AA	mg/L	0.0004	0.0004	nd
t-1,3-Dichloropropene	JB15AA	mg/L	0.0005	0.0005	nd
Ethylbenzene	JB15AA	mg/L	0.0005	0.0005	nd
Methylene Chloride	JB15AA	mg/L	0.0040	0.0040	nd
Styrene	JB15AA	mg/L	0.0004	0.0004	nd
1,1,2,2-Tetrachloroethane	JB15AA	mg/L	0.0006	0.0006	nd
Tetrachloroethylene	JB15AA	mg/L	0.0005	0.0005	nd
Toluene	JB15AA	mg/L	0.0010	0.0010	nd
1,1,1-Trichloroethane	JB15AA	mg/L	0.0004	0.0004	nd
1,1,2-Trichloroethane	JB15AA	mg/L	0.0006	0.0006	nd
Trichloroethylene	JB15AA	mg/L	0.0004	0.0004	nd
Trichlorofluoromethane	JB15AA	mg/L	0.0010	0.0010	nd
1,3,5-Trimethylbenzene	JB15AA	mg/L	0.0005	0.0005	nd
Vinyl Chloride	JB15AA	mg/L	0.0005	0.0005	nd
m/p-Xylene	JB15AA	mg/L	0.0010	0.0010	nd
o-Xylene	JB15AA	mg/L	0.0005	0.0005	nd
1,4-Bromofluorobenzene	JB15AA	Surrogate	n/a	n/a	104%
Dibromofluoromethane	JB15AA	Surrogate	n/a	n/a	91%
Toluene-d8	JB15AA	Surrogate	n/a	n/a	92%
Petroleum Hydrocarbons (gasoline)	B0000254	mg/L	0.10	0.10	nd
Petroleum Hydrocarbons (diesel)	B0000254	mg/L	0.10	0.10	0.20

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Paracel Laboratories Ltd.

Order #C1495

Certificate of Analysis

Intera Consultants Ltd.
265 Carling Avenue, suite 208
Ottawa, Ontario K1S 2E1
Attn: Ms. Krista Trounce

Voice: 613-232-2525
Fax: 613-232-7149

Clients Ref:
Project: **97-237**
Reference:

Report Date: **10/07/97**
Order Date: **09/30/97**
Sample Date: **09/29/97**

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

Paracel ID	Client ID
C1495.1	BH-25
C1495.2	BH-23
C1495.3	BH-21
C1495.4	BH-17
C1495.5	BH-16
C1495.6	BH-1
C1495.7	BH-31
C1495.8	BH-8
C1495.9	BH-26

Approved By: _____ Dale Robertson, B.Sc.

Paracel Laboratories Ltd.

Certificate of Analysis

Date: **10/08/97**

Order # **C1495**

Client: **Intera Consultants Ltd.**

Client Ref:

Project: **97-237**

Note - DL is the lowest detection limit normally attainable by the laboratory and PQL is the lowest practical quantitation limit attainable for the sample. If the PQL is greater than the DL, the PQL levels apply to the sample.
- Run ID can be used to relate sample data to QC data when more than one QC run is included.

Sample ID: BH-25

Paracel ID: C1495.1

Matrix: Water

Date Sampled: 09/29/97

Parameter	Run ID	units	DL	PQL	Result
Benzene	JB15AA	mg/L	0.0005	0.0005	nd
Bromodichloromethane	JB15AA	mg/L	0.0004	0.0004	nd
Bromoform	JB15AA	mg/L	0.0008	0.0008	nd
Bromomethane	JB15AA	mg/L	0.0010	0.0010	nd
Carbon Tetrachloride	JB15AA	mg/L	0.0005	0.0005	nd
Chlorobenzene	JB15AA	mg/L	0.0004	0.0004	nd
Chloroethane	JB15AA	mg/L	0.0010	0.0010	nd
Chloroform	JB15AA	mg/L	0.0006	0.0006	nd
Chloromethane	JB15AA	mg/L	0.0030	0.0030	nd
Dibromochloromethane	JB15AA	mg/L	0.0005	0.0005	nd
1,2-Dibromoethane	JB15AA	mg/L	0.0010	0.0010	nd
m-Dichlorobenzene	JB15AA	mg/L	0.0004	0.0004	nd
o-Dichlorobenzene	JB15AA	mg/L	0.0004	0.0004	nd
p-Dichlorobenzene	JB15AA	mg/L	0.0004	0.0004	nd
1,1-Dichloroethane	JB15AA	mg/L	0.0005	0.0005	nd
1,2-Dichloroethane	JB15AA	mg/L	0.0005	0.0005	nd
1,1-Dichloroethylene	JB15AA	mg/L	0.0006	0.0006	nd
c-1,2-Dichloroethylene	JB15AA	mg/L	0.0004	0.0004	nd
t-1,2-Dichloroethylene	JB15AA	mg/L	0.0010	0.0010	nd
1,2-Dichloropropane	JB15AA	mg/L	0.0007	0.0007	nd
c-1,3-Dichloropropene	JB15AA	mg/L	0.0004	0.0004	nd
t-1,3-Dichloropropene	JB15AA	mg/L	0.0005	0.0005	nd
Ethylbenzene	JB15AA	mg/L	0.0005	0.0005	nd
Methylene Chloride	JB15AA	mg/L	0.0040	0.0040	nd
Styrene	JB15AA	mg/L	0.0004	0.0004	nd
1,1,2,2-Tetrachloroethane	JB15AA	mg/L	0.0006	0.0006	nd
Tetrachloroethylene	JB15AA	mg/L	0.0005	0.0005	nd
Toluene	JB15AA	mg/L	0.0010	0.0010	nd
1,1,1-Trichloroethane	JB15AA	mg/L	0.0004	0.0004	nd
1,1,2-Trichloroethane	JB15AA	mg/L	0.0006	0.0006	nd
Trichloroethylene	JB15AA	mg/L	0.0004	0.0004	nd
Trichlorofluoromethane	JB15AA	mg/L	0.0010	0.0010	nd
1,3,5-Trimethylbenzene	JB15AA	mg/L	0.0005	0.0005	nd
Vinyl Chloride	JB15AA	mg/L	0.0005	0.0005	nd
m/p-Xylene	JB15AA	mg/L	0.0010	0.0010	nd
o-Xylene	JB15AA	mg/L	0.0005	0.0005	nd
1,4-Bromofluorobenzene	JB15AA	Surrogate	n/a	n/a	104%
Dibromofluoromethane	JB15AA	Surrogate	n/a	n/a	91%
Toluene-d8	JB15AA	Surrogate	n/a	n/a	92%
Petroleum Hydrocarbons (gasoline)	B0000254	mg/L	0.10	0.10	nd
Petroleum Hydrocarbons (diesel)	B0000254	mg/L	0.10	0.10	0.20

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Client: **Intera Consultants Ltd.**
Client Ref:

Project: **97-237**

Sample: BH-17 Continued...	Run ID	units	DL	PQL	Result
Petroleum Hydrocarbons (diesel)	B0000254	mg/L	0.10	0.10	**nd**

Sample ID: BH-16

Paracel ID: C1495.5

Matrix: Water
Date Sampled: 09/29/97

Parameter	Run ID	units	DL	PQL	Result
Benzene	JB15BB	mg/L	0.0005	0.0005	**nd**
Ethylbenzene	JB15BB	mg/L	0.0005	0.0005	**nd**
Toluene	JB15BB	mg/L	0.0010	0.0010	**nd**
m/p-Xylene	JB15BB	mg/L	0.0010	0.0010	**nd**
o-Xylene	JB15BB	mg/L	0.0005	0.0005	**nd**
Toluene-d8	JB15BB	Surrogate	n/a	n/a	**92%**
Petroleum Hydrocarbons (gasoline)	B0000254	mg/L	0.10	0.10	**nd**
Petroleum Hydrocarbons (diesel)	B0000254	mg/L	0.10	0.10	**nd**
Acenaphthene	JK07PA	ug/L	0.10	0.10	**nd**
Acenaphthylene	JK07PA	ug/L	0.10	0.10	**nd**
Anthracene	JK07PA	ug/L	0.10	0.10	**nd**
Benzo[a]anthracene	JK07PA	ug/L	0.10	0.10	**nd**
Benzo[a]pyrene	JK07PA	ug/L	0.010	0.010	**nd**
Benzo[b+k]fluoranthene	JK07PA	ug/L	0.20	0.20	**nd**
Benzo[ghi]perylene	JK07PA	ug/L	0.10	0.10	**nd**
Biphenyl	JK07PA	ug/L	0.10	0.10	**nd**
Chrysene	JK07PA	ug/L	0.10	0.10	**nd**
Dibenzo[a,h]anthracene	JK07PA	ug/L	0.10	0.10	**nd**
Fluoranthene	JK07PA	ug/L	0.10	0.10	**nd**
Fluorene	JK07PA	ug/L	0.10	0.10	**nd**
Indeno[1,2,3-cd]pyrene	JK07PA	ug/L	0.10	0.10	**nd**
1-Methylnaphthalene	JK07PA	ug/L	0.10	0.10	**nd**
2-Methylnaphthalene	JK07PA	ug/L	0.10	0.10	**nd**
Naphthalene	JK07PA	ug/L	0.10	0.10	**nd**
Phenanthrene	JK07PA	ug/L	0.10	0.10	**nd**
Pyrene	JK07PA	ug/L	0.10	0.10	**nd**
2-Fluorobiphenyl	JK07PA	Surrogate	n/a	n/a	**72%**
p-Terphenyl d-14	JK07PA	Surrogate	n/a	n/a	**78%**

Sample ID: BH-1

Paracel ID: C1495.6

Matrix: Water
Date Sampled: 09/29/97

Parameter	Run ID	units	DL	PQL	Result
Benzene	JB15BB	mg/L	0.0005	0.0005	**nd**
Ethylbenzene	JB15BB	mg/L	0.0005	0.0005	**nd**
Toluene	JB15BB	mg/L	0.0010	0.0010	**nd**
m/p-Xylene	JB15BB	mg/L	0.0010	0.0010	**nd**
o-Xylene	JB15BB	mg/L	0.0005	0.0005	**nd**

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Client: **Intera Consultants Ltd.**
Client Ref:

Project: **97-237**

Sample: BH-1 Continued...	Run ID	units	DL	PQL	Result
Toluene-d8	JB15BB	Surrogate	n/a	n/a	**90%**
Petroleum Hydrocarbons (gasoline)	B0000254	mg/L	0.10	0.14	**nd**
Petroleum Hydrocarbons (diesel)	B0000254	mg/L	0.10	0.14	**nd**

Sample ID: BH-31

Paracel ID: C1495.7

Matrix: Water
Date Sampled: 09/29/97

Parameter	Run ID	units	DL	PQL	Result
Benzene	JB15BB	mg/L	0.0005	0.0005	**nd**
Ethylbenzene	JB15BB	mg/L	0.0005	0.0005	**nd**
Toluene	JB15BB	mg/L	0.0010	0.0010	**nd**
m/p-Xylene	JB15BB	mg/L	0.0010	0.0010	**nd**
o-Xylene	JB15BB	mg/L	0.0005	0.0005	**nd**
Toluene-d8	JB15BB	Surrogate	n/a	n/a	**92%**
Petroleum Hydrocarbons (gasoline)	B0000254	mg/L	0.10	0.10	**nd**
Petroleum Hydrocarbons (diesel)	B0000254	mg/L	0.10	0.10	**nd**

Sample ID: BH-8

Paracel ID: C1495.8

Matrix: Water
Date Sampled: 09/29/97

Parameter	Run ID	units	DL	PQL	Result
Benzene	JB15BB	mg/L	0.0005	0.0005	**nd**
Ethylbenzene	JB15BB	mg/L	0.0005	0.0005	**nd**
Toluene	JB15BB	mg/L	0.0010	0.0010	**nd**
m/p-Xylene	JB15BB	mg/L	0.0010	0.0010	**nd**
o-Xylene	JB15BB	mg/L	0.0005	0.0005	**nd**
Toluene-d8	JB15BB	Surrogate	n/a	n/a	**93%**
Petroleum Hydrocarbons (gasoline)	B0000254	mg/L	0.10	0.10	**nd**
Petroleum Hydrocarbons (diesel)	B0000254	mg/L	0.10	0.10	**nd**

Sample ID: BH-26

Paracel ID: C1495.9

Matrix: Water
Date Sampled: 09/29/97

Parameter	Run ID	units	DL	PQL	Result
Benzene	JB15BB	mg/L	0.0005	0.0005	**nd**
Ethylbenzene	JB15BB	mg/L	0.0005	0.0005	**nd**
Toluene	JB15BB	mg/L	0.0010	0.0010	**nd**
m/p-Xylene	JB15BB	mg/L	0.0010	0.0010	**nd**
o-Xylene	JB15BB	mg/L	0.0005	0.0005	**nd**
Toluene-d8	JB15BB	Surrogate	n/a	n/a	**91%**
Petroleum Hydrocarbons (gasoline)	B0000254	mg/L	0.10	0.10	**nd**

300-2319 St. Laurent Blvd., Ottawa, ON K1G 4K6 Voice (613) 731-9577 Fax: (613) 731-9064 Email: paracel@inasec.ca

Client: **Intera Consultants Ltd.**
Client Ref:

Project: **97-237**

Sample: BH-17 Continued...	Run ID	units	DL	PQL	Result
Petroleum Hydrocarbons (diesel)	B0000254	mg/L	0.10	0.10	nd

Sample ID: BH-16

Paracel ID: C1495.5

Matrix: Water
Date Sampled: 09/29/97

Parameter	Run ID	units	DL	PQL	Result
Benzene	JB15BB	mg/L	0.0005	0.0005	nd
Ethylbenzene	JB15BB	mg/L	0.0005	0.0005	nd
Toluene	JB15BB	mg/L	0.0010	0.0010	nd
m/p-Xylene	JB15BB	mg/L	0.0010	0.0010	nd
o-Xylene	JB15BB	mg/L	0.0005	0.0005	nd
Toluene-d8	JB15BB	Surrogate	n/a	n/a	92%
Petroleum Hydrocarbons (gasoline)	B0000254	mg/L	0.10	0.10	nd
Petroleum Hydrocarbons (diesel)	B0000254	mg/L	0.10	0.10	nd
Acenaphthene	JK07PA	ug/L	0.10	0.10	nd
Acenaphthylene	JK07PA	ug/L	0.10	0.10	nd
Anthracene	JK07PA	ug/L	0.10	0.10	nd
Benzo[a]anthracene	JK07PA	ug/L	0.10	0.10	nd
Benzo[a]pyrene	JK07PA	ug/L	0.010	0.010	nd
Benzo[b+k]fluoranthene	JK07PA	ug/L	0.20	0.20	nd
Benzo[ghi]perylene	JK07PA	ug/L	0.10	0.10	nd
Biphenyl	JK07PA	ug/L	0.10	0.10	nd
Chrysene	JK07PA	ug/L	0.10	0.10	nd
Dibenzo[a,h]anthracene	JK07PA	ug/L	0.10	0.10	nd
Fluoranthene	JK07PA	ug/L	0.10	0.10	nd
Fluorene	JK07PA	ug/L	0.10	0.10	nd
Indeno[1,2,3-cd]pyrene	JK07PA	ug/L	0.10	0.10	nd
1-Methylnaphthalene	JK07PA	ug/L	0.10	0.10	nd
2-Methylnaphthalene	JK07PA	ug/L	0.10	0.10	nd
Naphthalene	JK07PA	ug/L	0.10	0.10	nd
Phenanthrene	JK07PA	ug/L	0.10	0.10	nd
Pyrene	JK07PA	ug/L	0.10	0.10	nd
2-Fluorobiphenyl	JK07PA	Surrogate	n/a	n/a	72%
p-Terphenyl d-14	JK07PA	Surrogate	n/a	n/a	78%

Sample ID: BH-1

Paracel ID: C1495.6

Matrix: Water
Date Sampled: 09/29/97

Parameter	Run ID	units	DL	PQL	Result
Benzene	JB15BB	mg/L	0.0005	0.0005	nd
Ethylbenzene	JB15BB	mg/L	0.0005	0.0005	nd
Toluene	JB15BB	mg/L	0.0010	0.0010	nd
m/p-Xylene	JB15BB	mg/L	0.0010	0.0010	nd
o-Xylene	JB15BB	mg/L	0.0005	0.0005	nd

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Sample: BH-1 Continued...	Run ID	units	DL	PQL	Result
Toluene-d8	JB15BB	Surrogate	n/a	n/a	**90%**
Petroleum Hydrocarbons (gasoline)	B0000254	mg/L	0.10	0.14	**nd**
Petroleum Hydrocarbons (diesel)	B0000254	mg/L	0.10	0.14	**nd**

Sample ID: BH-31

Paracel ID: C1495.7

Matrix: Water
Date Sampled: 09/29/97

Parameter	Run ID	units	DL	PQL	Result
Benzene	JB15BB	mg/L	0.0005	0.0005	**nd**
Ethylbenzene	JB15BB	mg/L	0.0005	0.0005	**nd**
Toluene	JB15BB	mg/L	0.0010	0.0010	**nd**
m/p-Xylene	JB15BB	mg/L	0.0010	0.0010	**nd**
o-Xylene	JB15BB	mg/L	0.0005	0.0005	**nd**
Toluene-d8	JB15BB	Surrogate	n/a	n/a	**92%**
Petroleum Hydrocarbons (gasoline)	B0000254	mg/L	0.10	0.10	**nd**
Petroleum Hydrocarbons (diesel)	B0000254	mg/L	0.10	0.10	**nd**

Sample ID: BH-8

Paracel ID: C1495.8

Matrix: Water
Date Sampled: 09/29/97

Parameter	Run ID	units	DL	PQL	Result
Benzene	JB15BB	mg/L	0.0005	0.0005	**nd**
Ethylbenzene	JB15BB	mg/L	0.0005	0.0005	**nd**
Toluene	JB15BB	mg/L	0.0010	0.0010	**nd**
m/p-Xylene	JB15BB	mg/L	0.0010	0.0010	**nd**
o-Xylene	JB15BB	mg/L	0.0005	0.0005	**nd**
Toluene-d8	JB15BB	Surrogate	n/a	n/a	**93%**
Petroleum Hydrocarbons (gasoline)	B0000254	mg/L	0.10	0.10	**nd**
Petroleum Hydrocarbons (diesel)	B0000254	mg/L	0.10	0.10	**nd**

Sample ID: BH-26

Paracel ID: C1495.9

Matrix: Water
Date Sampled: 09/29/97

Parameter	Run ID	units	DL	PQL	Result
Benzene	JB15BB	mg/L	0.0005	0.0005	**nd**
Ethylbenzene	JB15BB	mg/L	0.0005	0.0005	**nd**
Toluene	JB15BB	mg/L	0.0010	0.0010	**nd**
m/p-Xylene	JB15BB	mg/L	0.0010	0.0010	**nd**
o-Xylene	JB15BB	mg/L	0.0005	0.0005	**nd**
Toluene-d8	JB15BB	Surrogate	n/a	n/a	**91%**
Petroleum Hydrocarbons (gasoline)	B0000254	mg/L	0.10	0.10	**nd**

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Run ID JB15AA Continued...	units	DL	Measured
1,4-Bromofluorobenzene	Surrogate	n/a	105%
Dibromofluoromethane	Surrogate	n/a	90%
Toluene-d8	Surrogate	n/a	90%

Method: US EPA 624
Run ID: JB15BB **Matrix: Water**

Parameter	units	DL	Measured
Benzene	mg/L	0.0005	nd
Ethylbenzene	mg/L	0.0005	nd
Toluene	mg/L	0.0010	nd
m/p-Xylene	mg/L	0.0010	nd
o-Xylene	mg/L	0.0005	nd
Toluene-d8	Surrogate	n/a	90%

Method:US EPA 625
Run ID: JK07PA **Matrix: Water**

Parameter	units	DL	Measured
Acenaphthene	ug/L	0.10	nd
Acenaphthylene	ug/L	0.10	nd
Anthracene	ug/L	0.10	nd
Benzo[a]anthracene	ug/L	0.10	nd
Benzo[a]pyrene	ug/L	0.010	nd
Benzo[b+k]fluoranthene	ug/L	0.20	nd
Benzo[ghi]perylene	ug/L	0.10	nd
Chrysene	ug/L	0.10	nd
Dibenzo[a,h]anthracene	ug/L	0.10	nd
Fluoranthene	ug/L	0.10	nd
Fluorene	ug/L	0.10	nd
Indeno[1,2,3-cd]pyrene	ug/L	0.10	nd
Naphthalene	ug/L	0.10	nd
Phenanthrene	ug/L	0.10	nd
Pyrene	ug/L	0.10	nd
2-Fluorobiphenyl	Surrogate	n/a	84%
p-Terphenyl d-14	Surrogate	n/a	86%

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Note - The following portion of this report includes Reference Standard data relating to all of the samples included in the Certificate of Analysis.
- More that one Reference Standard for a parameter usually indicates that the samples were analyzed under more that one QC group. The Run ID can be used to relate a Reference Standard to particular samples.

Method SW-846 Method 8000A/3500A

Run ID: B0000254 **Matrix: Water**

Parameter	Expected	LLA	ULA	Recovery
Petroleum Hydrocarbons (gasoline)	100 mg/L	50%	150%	**121%**
Petroleum Hydrocarbons (diesel)	300 mg/L	50%	150%	**84%**

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Run ID JB15AA Continued...	units	DL	Measured
1,4-Bromofluorobenzene	Surrogate	n/a	105%
Dibromofluoromethane	Surrogate	n/a	90%
Toluene-d8	Surrogate	n/a	90%

Method: US EPA 624

Run ID: JB15BB **Matrix: Water**

Parameter	units	DL	Measured
Benzene	mg/L	0.0005	nd
Ethylbenzene	mg/L	0.0005	nd
Toluene	mg/L	0.0010	nd
m/p-Xylene	mg/L	0.0010	nd
o-Xylene	mg/L	0.0005	nd
Toluene-d8	Surrogate	n/a	90%

Method:US EPA 625

Run ID: JK07PA **Matrix: Water**

Parameter	units	DL	Measured
Acenaphthene	ug/L	0.10	nd
Acenaphthylene	ug/L	0.10	nd
Anthracene	ug/L	0.10	nd
Benzo[a]anthracene	ug/L	0.10	nd
Benzo[a]pyrene	ug/L	0.010	nd
Benzo[b+k]fluoranthene	ug/L	0.20	nd
Benzo[ghi]perylene	ug/L	0.10	nd
Chrysene	ug/L	0.10	nd
Dibenzo[a,h]anthracene	ug/L	0.10	nd
Fluoranthene	ug/L	0.10	nd
Fluorene	ug/L	0.10	nd
Indeno[1,2,3-cd]pyrene	ug/L	0.10	nd
Naphthalene	ug/L	0.10	nd
Phenanthrene	ug/L	0.10	nd
Pyrene	ug/L	0.10	nd
2-Fluorobiphenyl	Surrogate	n/a	84%
p-Terphenyl d-14	Surrogate	n/a	86%

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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 that one Reference Standard for a parameter usually indicates that the samples were analyzed under more that one QC group. The Run ID can be used to relate a Reference Standard to particular samples.

Method SW-846 Method 8000A/3500A

Run ID: B0000254 **Matrix: Water**

Parameter	Expected	LLA	ULA	Recovery
Petroleum Hydrocarbons (gasoline)	100 mg/L	50%	150%	**121%**
Petroleum Hydrocarbons (diesel)	300 mg/L	50%	150%	**84%**

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Paracel Laboratories Ltd.

Date: **10/07/97**

QA/QC Report - MATRIX DUPLICATE

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. The Run ID can be used to relate a Matrix Duplicate to particular samples.

Method: US EPA 624
Run ID: JB15BB **Matrix: Water**

Parameter	units	Detection Limit	Reported Value	Duplicate Value
Benzene	mg/L	0.0005	nd	nd
Ethylbenzene	mg/L	0.0005	nd	nd
Toluene	mg/L	0.0010	nd	nd
m/p-Xylene	mg/L	0.0010	nd	nd
o-Xylene	mg/L	0.0005	nd	nd
Toluene-d8	Surrogate		93%	94%

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Paracel Laboratories Ltd.

Date: **10/07/97**

QA/QC Report - MATRIX SPIKE

Note - The following portion of this report includes Matirx Spike data relating to all of the samples included in the Certificate of Analysis.
- More that one Matrix Spike for a parameter usually indicates that the samples were analyzed under more that one QC group. The Run ID can be used to relate a Matrix Spike to particular samples.

Method: US EPA 624

Run ID: JB15AA **Matrix: Water**

Parameter	Expected	Measured	LLA	ULA	Meas./Expt.
Benzene	0.040 mg/L	0.034	61	135	**85%**
Bromodichloromethane	0.040 mg/L	0.027	48	164	**68%**
Bromoform	0.040 mg/L	0.022	3.0	182	**54%**
Bromomethane	0.040 mg/L	0.031	8.0	200	**78%**
Carbon Tetrachloride	0.040 mg/L	0.035	19	155	**87%**
Chlorobenzene	0.040 mg/L	0.039	61	139	**98%**
Chloroethane	0.040 mg/L	0.024	50	150	**61%**
Chloroform	0.040 mg/L	0.036	52	134	**90%**
Chloromethane	0.040 mg/L	0.035	50	193	**88%**
Dibromochloromethane	0.040 mg/L	0.026	33	175	**64%**
1,2-Dibromoethane	0.040 mg/L	0.027	33	172	**68%**
m-Dichlorobenzene	0.040 mg/L	0.042	63	133	**105%**
o-Dichlorobenzene	0.040 mg/L	0.036	55	141	**90%**
p-Dichlorobenzene	0.040 mg/L	0.041	64	134	**101%**
1,1-Dichloroethane	0.040 mg/L	0.035	51	134	**89%**
1,2-Dichloroethane	0.040 mg/L	0.029	38	164	**71%**
1,1-Dichloroethylene	0.040 mg/L	0.031	47	150	**78%**
c-1,2-Dichloroethylene	0.040 mg/L	0.033	62	139	**83%**
t-1,2-Dichloroethylene	0.040 mg/L	0.040	48	153	**101%**
1,2-Dichloropropane	0.040 mg/L	0.028	45	155	**70%**
c-1,3-Dichloropropene	0.040 mg/L	0.024	27	178	**59%**
t-1,3-Dichloropropene	0.040 mg/L	0.023	40	167	**59%**
Ethylbenzene	0.040 mg/L	0.042	58	147	**105%**
Methylene Chloride	0.040 mg/L	0.034	66	150	**85%**
Styrene	0.040 mg/L	0.042	48	146	**104%**
1,1,2,2-Tetrachloroethane	0.040 mg/L	0.022	24	171	**55%**
Tetrachloroethylene	0.040 mg/L	0.045	33	153	**112%**
Toluene	0.040 mg/L	0.035	55	148	**87%**
1,1,1-Trichloroethane	0.040 mg/L	0.036	44	133	**91%**
1,1,2-Trichloroethane	0.040 mg/L	0.023	38	163	**58%**
Trichloroethylene	0.040 mg/L	0.036	55	152	**90%**
Trichlorofluoromethane	0.040 mg/L	0.048	60	163	**119%**
1,3,5-Trimethylbenzene	0.040 mg/L	0.044	57	135	**110%**
Vinyl Chloride	0.040 mg/L	0.039	51	168	**97%**
m/p-Xylene	0.080 mg/L	0.098	45	168	**123%**
o-Xylene	0.040 mg/L	0.046	28	183	**115%**
1,4-Bromofluorobenzene	Surrogate		69%	132%	**101%**
Dibromofluoromethane	Surrogate		68%	129%	**91%**
Toluene-d8	Surrogate		88%	112%	**103%**

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Method: US EPA 624					
Run ID: JB15BB					**Matrix: Water**
Parameter	**Expected**	**Measured**	**LLA**	**ULA**	**Meas./Expt.**
Benzene	0.040 mg/L	0.034	61	135	**85%**
Ethylbenzene	0.040 mg/L	0.042	58	147	**105%**
Toluene	0.040 mg/L	0.035	55	148	**87%**
m/p-Xylene	0.080 mg/L	0.098	45	168	**123%**
o-Xylene	0.040 mg/L	0.046	28	183	**115%**
Toluene-d8	Surrogate		88%	112%	**103%**

Method: US EPA 625					
Run ID: JK07PA					**Matrix: Water**
Parameter	**Expected**	**Measured**	**LLA**	**ULA**	**Meas./Expt.**
Acenaphthene	10 ug/L	8.6	47	147	**86%**
Acenaphthylene	10 ug/L	7.7	33	145	**77%**
Anthracene	10 ug/L	6.3	27	133	**63%**
Benzo[a]anthracene	10 ug/L	8.3	33	143	**83%**
Benzo[a]pyrene	10 ug/L	8.5	17	163	**85%**
Benzo[b+k]fluoranthene	20 ug/L	7.6	11	162	**38%**
Benzo[ghi]perylene	10 ug/L	6.5	1.0	219	**65%**
Chrysene	10 ug/L	7.3	17	168	**73%**
Dibenzo[a,h]anthracene	10 ug/L	5.8	1.0	227	**58%**
Fluoranthene	10 ug/L	7.2	26	137	**72%**
Fluorene	10 ug/L	7.9	59	121	**79%**
Indeno[1,2,3-cd]pyrene	10 ug/L	6.3	1.0	171	**63%**
Naphthalene	10 ug/L	6.4	21	133	**64%**
Phenanthrene	10 ug/L	8.0	54	120	**80%**
Pyrene	10 ug/L	7.0	52	115	**70%**
2-Fluorobiphenyl	Surrogate		30%	115%	**88%**
p-Terphenyl d-14	Surrogate		18%	137%	**87%**

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Glossary of Terms

DL	The laboratory Detection Limit. The value is based on instrument response and is the lowest level that can be quantitated with confidence
PQL	The Practical Quantitation Limit for the sample. It is the lowest level at which the parameter could be quantitated in this sample. Elevated practical quantitation limits may be due to high analyte concentration, matrix interferences, available sample volume, or other factors.
nd	Not detected or found below the detection limit.
n/a	Not applicable to this particular analysis.
Surrogate Data	Surrogates are 'not naturally occuring' 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.
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. SAMPLE - Results from the analysis of the unfortified sample. SPIKE- 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.

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Method: US EPA 624
Run ID: JB15BB **Matrix: Water**

Parameter	Expected	Measured	LLA	ULA	Meas./Expt.
Benzene	0.040 mg/L	0.034	61	135	**85%**
Ethylbenzene	0.040 mg/L	0.042	58	147	**105%**
Toluene	0.040 mg/L	0.035	55	148	**87%**
m/p-Xylene	0.080 mg/L	0.098	45	168	**123%**
o-Xylene	0.040 mg/L	0.046	28	183	**115%**
Toluene-d8	Surrogate		88%	112%	**103%**

Method: US EPA 625
Run ID: JK07PA **Matrix: Water**

Parameter	Expected	Measured	LLA	ULA	Meas./Expt.
Acenaphthene	10 ug/L	8.6	47	147	**86%**
Acenaphthylene	10 ug/L	7.7	33	145	**77%**
Anthracene	10 ug/L	6.3	27	133	**63%**
Benzo[a]anthracene	10 ug/L	8.3	33	143	**83%**
Benzo[a]pyrene	10 ug/L	8.5	17	163	**85%**
Benzo[b+k]fluoranthene	20 ug/L	7.6	11	162	**38%**
Benzo[ghi]perylene	10 ug/L	6.5	1.0	219	**65%**
Chrysene	10 ug/L	7.3	17	168	**73%**
Dibenzo[a,h]anthracene	10 ug/L	5.8	1.0	227	**58%**
Fluoranthene	10 ug/L	7.2	26	137	**72%**
Fluorene	10 ug/L	7.9	59	121	**79%**
Indeno[1,2,3-cd]pyrene	10 ug/L	6.3	1.0	171	**63%**
Naphthalene	10 ug/L	6.4	21	133	**64%**
Phenanthrene	10 ug/L	8.0	54	120	**80%**
Pyrene	10 ug/L	7.0	52	115	**70%**
2-Fluorobiphenyl	Surrogate		30%	115%	**88%**
p-Terphenyl d-14	Surrogate		18%	137%	**87%**

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Paracel Laboratories Ltd.

Date: **10/07/97**

Glossary of Terms

DL	The laboratory Detection Limit. The value is based on instrument response and is the lowest level that can be quantitated with confidence
PQL	The Practical Quantitation Limit for the sample. It is the lowest level at which the parameter could be quantitated in this sample. Elevated practical quantitation limits may be due to high analyte concentration, matrix interferences, available sample volume, or other factors.
nd	Not detected or found below the detection limit.
n/a	Not applicable to this particular analysis.
Surrogate Data	Surrogates are 'not naturally occuring' 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.
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. SAMPLE - Results from the analysis of the unfortified sample. SPIKE- 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.

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PARACEL LABORATORIES LTD.
2319 St. Laurent Blvd., Unit 100, Ottawa, ON, Canada K1G 4K6
Tel: (613) 731-9577
Fax: (613) 731-9064

№ P 2821

CHAIN OF CUSTODY REPORT

CLIENT INFORMATION

CONTACT: KRISTA TROUNCE / ANTHONY WEST DATE: SEPT 29/97
COMPANY: INTERA DATE SAMPLED: SEPT 29
ADDRESS: 265 CARLING AVE, SUITE 208
CITY: OTTAWA PROVINCE: ONT POSTAL CODE: K1S 2E1
PHONE NUMBER: 613-232-2525 FAX: 613-232-7149
P.O. NUMBER: PROJECT: 97-237 REFERENCE:

SAMPLE INFORMATION / ANALYSIS REQUIRED

	Paracel W.O. Number: 1495 SAMPLE IDENTIFICATION	NOC	MATRIX	TAT	BTEX	TPH	PAH	VOC										
1	BH-25	3	W	S		X		X										
2	BH-23	4	W	"	[redacted]	X	X	X										
3	BH-21	2	W	"	X	X												
4	BH-17	2	W	"	X	X												
5	BH-16	3	W	"	X	X	X											
6	BH-1	2	W	"	X	X												
7	BH-31	2	W	"	X	X												
8	BH-8	2	W	"	X	X												
9	BH-26	2	W	"	X	X												
10																		
	Preservation done in field (Y/N):																	
	Preservative to be added by Paracel (Y/N):																	

LEGEND

NOC: Number of containers
MATRIX: A = Air, S = Soil, W = Water, O = Other
TAT: Turn-around time; R = Rush (100% surcharge), A = Accelerated (50% surcharge), S = Standard turn-around time

Comments:

Relinquished by:	Received by:
Date: Sept 30 Time: 10:00 a.m.	Date: 09/30/97 Time: 12:00 pm

WHITE – REPORT COPY; YELLOW – LAB COPY; PINK – CLIENT COPY

Paracel Laboratories Ltd.

Order #C1664

Certificate of Analysis

Intera Consultants Ltd.
265 Carling Avenue, suite 208
Ottawa, Ontario K1S 2E1
Attn: Mr. Anthony West

Voice: 613-232-2525
Fax: 613-232-7149

Clients Ref:
Project: **97-237**
Reference:

Report Date: **10/23/97**
Order Date: **10/22/97**
Sample Date: **09/26/97**

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

Paracel ID	Client ID
C1664.1	BH-24 .5-2.5
C1664.2	BH-20 .5-2.5
C1664.3	BH-13 .5-2.5
C1664.4	BH-5 .5-2.5
C1664.5	BH-12 .5-2.5
C1664.6	BH-14 .5-2.5
C1664.7	BH-21 .5-2.5

Approved By:  Dale Robertson, B.Sc.

Paracel Laboratories Ltd.

Certificate of Analysis

Date: **10/23/97**

Order # **C1664**

Client: **Intera Consultants Ltd.**

Client Ref:

Project: **97-237**

Note - DL is the lowest detection limit normally attainable by the laboratory and PQL is the lowest practical quantitation limit attainable for the sample. If the PQL is greater than the DL, the PQL levels apply to the sample.
- Run ID can be used to relate sample data to QC data when more than one QC run is included.

Sample ID: BH-24 .5-2.5

Matrix: Soil

Paracel ID: C1664.1

Date Sampled: 09/26/97

Parameter	Run ID	units	DL	PQL	Result
Aluminum (ICP)	BICSG029	ug/g	100	100	**4,200**
Antimony (ICP)	BICSG029	ug/g	5.0	5.0	**nd**
Arsenic (ICP)	BICSG029	ug/g	5.0	5.0	**nd**
Barium (ICP)	BICSG029	ug/g	1.0	1.0	**59**
Beryllium (ICP)	BICSG029	ug/g	0.20	0.20	**0.20**
Bismuth (ICP)	BICSG029	ug/g	5.0	5.0	**nd**
Cadmium (ICP)	BICSG029	ug/g	1.0	1.0	**nd**
Calcium (ICP)	BICSG029	ug/g	100	100	**110,000**
Chromium (ICP)	BICSG029	ug/g	1.0	1.0	**9.0**
Cobalt (ICP)	BICSG029	ug/g	1.0	1.0	**5.0**
Copper (ICP)	BICSG029	ug/g	1.0	1.0	**14**
Iron (ICP)	BICSG029	ug/g	100	100	**16,000**
Lead (ICP)	BICSG029	ug/g	1.0	1.0	**110**
Lithium (ICP)	BICSG029	ug/g	1.0	1.0	**nd**
Magnesium (ICP)	BICSG029	ug/g	100	100	**27,000**
Manganese (ICP)	BICSG029	ug/g	1.0	1.0	**260**
Molybdenum (ICP)	BICSG029	ug/g	1.0	1.0	**4.0**
Nickel (ICP)	BICSG029	ug/g	1.0	1.0	**10**
Niobium (ICP)	BICSG029	ug/g	5.0	5.0	**nd**
Potassium (ICP)	BICSG029	ug/g	500	500	**1,000**
Silver (ICP)	BICSG029	ug/g	0.50	0.50	**nd**
Sodium (ICP)	BICSG029	ug/g	100	100	**400**
Strontium (ICP)	BICSG029	ug/g	1.0	1.0	**120**
Tin (ICP)	BICSG029	ug/g	20	20	**nd**
Titanium (ICP)	BICSG029	ug/g	1.0	1.0	**120**
Tungsten (ICP)	BICSG029	ug/g	20	20	**nd**
Vanadium (ICP)	BICSG029	ug/g	1.0	1.0	**10**
Yttrium (ICP)	BICSG029	ug/g	1.0	1.0	**2.0**
Zinc (ICP)	BICSG029	ug/g	1.0	1.0	**70**

Sample ID: BH-20 .5-2.5

Matrix: Soil

Paracel ID: C1664.2

Date Sampled: 09/26/97

Parameter	Run ID	units	DL	PQL	Result
Aluminum (ICP)	BICSG029	ug/g	100	100	**4,800**
Antimony (ICP)	BICSG029	ug/g	5.0	5.0	**nd**
Arsenic (ICP)	BICSG029	ug/g	5.0	5.0	**10**
Barium (ICP)	BICSG029	ug/g	1.0	1.0	**200**
Beryllium (ICP)	BICSG029	ug/g	0.20	0.20	**0.60**
Bismuth (ICP)	BICSG029	ug/g	5.0	5.0	**nd**
Cadmium (ICP)	BICSG029	ug/g	1.0	1.0	**nd**

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Client: **Intera Consultants Ltd.**
Client Ref: Project: **97-237**

Sample: BH-20 .5-2.5 Continued...	Run ID	units	DL	PQL	Result
Calcium (ICP)	BICSG029	ug/g	100	100	**49,000**
Chromium (ICP)	BICSG029	ug/g	1.0	1.0	**12**
Cobalt (ICP)	BICSG029	ug/g	1.0	1.0	**6.0**
Copper (ICP)	BICSG029	ug/g	1.0	1.0	**26**
Iron (ICP)	BICSG029	ug/g	100	100	**25,000**
Lead (ICP)	BICSG029	ug/g	1.0	1.0	**65**
Lithium (ICP)	BICSG029	ug/g	1.0	1.0	**nd**
Magnesium (ICP)	BICSG029	ug/g	100	100	**4,600**
Manganese (ICP)	BICSG029	ug/g	1.0	1.0	**200**
Molybdenum (ICP)	BICSG029	ug/g	1.0	1.0	**14**
Nickel (ICP)	BICSG029	ug/g	1.0	1.0	**11**
Niobium (ICP)	BICSG029	ug/g	5.0	5.0	**nd**
Potassium (ICP)	BICSG029	ug/g	500	500	**nd**
Silver (ICP)	BICSG029	ug/g	0.50	0.50	**nd**
Sodium (ICP)	BICSG029	ug/g	100	100	**400**
Strontium (ICP)	BICSG029	ug/g	1.0	1.0	**110**
Tin (ICP)	BICSG029	ug/g	20	20	**nd**
Titanium (ICP)	BICSG029	ug/g	1.0	1.0	**280**
Tungsten (ICP)	BICSG029	ug/g	20	20	**nd**
Vanadium (ICP)	BICSG029	ug/g	1.0	1.0	**14**
Yttrium (ICP)	BICSG029	ug/g	1.0	1.0	**3.0**
Zinc (ICP)	BICSG029	ug/g	1.0	1.0	**83**

Sample ID: BH-13 .5-2.5

Paracel ID: C1664.3 **Matrix: Soil**
Date Sampled: 09/26/97

Parameter	Run ID	units	DL	PQL	Result
Aluminum (ICP)	BICSG029	ug/g	100	100	**4,000**
Antimony (ICP)	BICSG029	ug/g	5.0	5.0	**nd**
Arsenic (ICP)	BICSG029	ug/g	5.0	5.0	**nd**
Barium (ICP)	BICSG029	ug/g	1.0	1.0	**100**
Beryllium (ICP)	BICSG029	ug/g	0.20	0.20	**nd**
Bismuth (ICP)	BICSG029	ug/g	5.0	5.0	**nd**
Cadmium (ICP)	BICSG029	ug/g	1.0	1.0	**nd**
Calcium (ICP)	BICSG029	ug/g	100	100	**150,000**
Chromium (ICP)	BICSG029	ug/g	1.0	1.0	**10**
Cobalt (ICP)	BICSG029	ug/g	1.0	1.0	**3.0**
Copper (ICP)	BICSG029	ug/g	1.0	1.0	**9.0**
Iron (ICP)	BICSG029	ug/g	100	100	**9,300**
Lead (ICP)	BICSG029	ug/g	1.0	1.0	**36**
Lithium (ICP)	BICSG029	ug/g	1.0	1.0	**nd**
Magnesium (ICP)	BICSG029	ug/g	100	100	**6,000**
Manganese (ICP)	BICSG029	ug/g	1.0	1.0	**220**
Molybdenum (ICP)	BICSG029	ug/g	1.0	1.0	**nd**
Nickel (ICP)	BICSG029	ug/g	1.0	1.0	**8.0**
Niobium (ICP)	BICSG029	ug/g	5.0	5.0	**nd**

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Client: **Intera Consultants Ltd.**
Client Ref:

Project: **97-237**

Sample: BH-13 .5-2.5 Continued...	Run ID	units	DL	PQL	Result
Potassium (ICP)	BICSG029	ug/g	500	500	**500**
Silver (ICP)	BICSG029	ug/g	0.50	0.50	**nd**
Sodium (ICP)	BICSG029	ug/g	100	100	**400**
Strontium (ICP)	BICSG029	ug/g	1.0	1.0	**240**
Tin (ICP)	BICSG029	ug/g	20	20	**nd**
Titanium (ICP)	BICSG029	ug/g	1.0	1.0	**310**
Tungsten (ICP)	BICSG029	ug/g	20	20	**nd**
Vanadium (ICP)	BICSG029	ug/g	1.0	1.0	**13**
Yttrium (ICP)	BICSG029	ug/g	1.0	1.0	**3.0**
Zinc (ICP)	BICSG029	ug/g	1.0	1.0	**23**

Sample ID: BH-5 .5-2.5

Paracel ID: C1664.4

Matrix: Soil
Date Sampled: 09/26/97

Parameter	Run ID	units	DL	PQL	Result
Aluminum (ICP)	BICSG029	ug/g	100	100	**6,200**
Antimony (ICP)	BICSG029	ug/g	5.0	5.0	**5.0**
Arsenic (ICP)	BICSG029	ug/g	5.0	5.0	**5.0**
Barium (ICP)	BICSG029	ug/g	1.0	1.0	**88**
Beryllium (ICP)	BICSG029	ug/g	0.20	0.20	**0.40**
Bismuth (ICP)	BICSG029	ug/g	5.0	5.0	**nd**
Cadmium (ICP)	BICSG029	ug/g	1.0	1.0	**nd**
Calcium (ICP)	BICSG029	ug/g	100	100	**59,000**
Chromium (ICP)	BICSG029	ug/g	1.0	1.0	**25**
Cobalt (ICP)	BICSG029	ug/g	1.0	1.0	**4.0**
Copper (ICP)	BICSG029	ug/g	1.0	1.0	**17**
Iron (ICP)	BICSG029	ug/g	100	100	**16,000**
Lead (ICP)	BICSG029	ug/g	1.0	1.0	**110**
Lithium (ICP)	BICSG029	ug/g	1.0	1.0	**nd**
Magnesium (ICP)	BICSG029	ug/g	100	100	**7,700**
Manganese (ICP)	BICSG029	ug/g	1.0	1.0	**240**
Molybdenum (ICP)	BICSG029	ug/g	1.0	1.0	**13**
Nickel (ICP)	BICSG029	ug/g	1.0	1.0	**13**
Niobium (ICP)	BICSG029	ug/g	5.0	5.0	**nd**
Potassium (ICP)	BICSG029	ug/g	500	500	**1,000**
Silver (ICP)	BICSG029	ug/g	0.50	0.50	**nd**
Sodium (ICP)	BICSG029	ug/g	100	100	**600**
Strontium (ICP)	BICSG029	ug/g	1.0	1.0	**110**
Tin (ICP)	BICSG029	ug/g	20	20	**nd**
Titanium (ICP)	BICSG029	ug/g	1.0	1.0	**380**
Tungsten (ICP)	BICSG029	ug/g	20	20	**nd**
Vanadium (ICP)	BICSG029	ug/g	1.0	1.0	**18**
Yttrium (ICP)	BICSG029	ug/g	1.0	1.0	**5.0**
Zinc (ICP)	BICSG029	ug/g	1.0	1.0	**70**

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Client: **Intera Consultants Ltd.**
Client Ref:

Project: **97-237**

Sample ID: BH-12 .5-2.5

Paracel ID: C1664.5

Matrix: Soil
Date Sampled: 09/26/97

Parameter	Run ID	units	DL	PQL	Result
Aluminum (ICP)	BICSG029	ug/g	100	100	**5,900**
Antimony (ICP)	BICSG029	ug/g	5.0	5.0	**nd**
Arsenic (ICP)	BICSG029	ug/g	5.0	5.0	**nd**
Barium (ICP)	BICSG029	ug/g	1.0	1.0	**190**
Beryllium (ICP)	BICSG029	ug/g	0.20	0.20	**0.20**
Bismuth (ICP)	BICSG029	ug/g	5.0	5.0	**nd**
Cadmium (ICP)	BICSG029	ug/g	1.0	1.0	**nd**
Calcium (ICP)	BICSG029	ug/g	100	100	**190,000**
Chromium (ICP)	BICSG029	ug/g	1.0	1.0	**12**
Cobalt (ICP)	BICSG029	ug/g	1.0	1.0	**6.0**
Copper (ICP)	BICSG029	ug/g	1.0	1.0	**14**
Iron (ICP)	BICSG029	ug/g	100	100	**11,000**
Lead (ICP)	BICSG029	ug/g	1.0	1.0	**35**
Lithium (ICP)	BICSG029	ug/g	1.0	1.0	**nd**
Magnesium (ICP)	BICSG029	ug/g	100	100	**10,000**
Manganese (ICP)	BICSG029	ug/g	1.0	1.0	**290**
Molybdenum (ICP)	BICSG029	ug/g	1.0	1.0	**nd**
Nickel (ICP)	BICSG029	ug/g	1.0	1.0	**10**
Niobium (ICP)	BICSG029	ug/g	5.0	5.0	**nd**
Potassium (ICP)	BICSG029	ug/g	500	500	**1,500**
Silver (ICP)	BICSG029	ug/g	0.50	0.50	**nd**
Sodium (ICP)	BICSG029	ug/g	100	100	**700**
Strontium (ICP)	BICSG029	ug/g	1.0	1.0	**360**
Tin (ICP)	BICSG029	ug/g	20	20	**nd**
Titanium (ICP)	BICSG029	ug/g	1.0	1.0	**130**
Tungsten (ICP)	BICSG029	ug/g	20	20	**20**
Vanadium (ICP)	BICSG029	ug/g	1.0	1.0	**11**
Yttrium (ICP)	BICSG029	ug/g	1.0	1.0	**5.0**
Zinc (ICP)	BICSG029	ug/g	1.0	1.0	**38**

Sample ID: BH-14 .5-2.5

Paracel ID: C1664.6

Matrix: Soil
Date Sampled: 09/26/97

Parameter	Run ID	units	DL	PQL	Result
Aluminum (ICP)	BICSG029	ug/g	100	100	**4,800**
Antimony (ICP)	BICSG029	ug/g	5.0	5.0	**nd**
Arsenic (ICP)	BICSG029	ug/g	5.0	5.0	**nd**
Barium (ICP)	BICSG029	ug/g	1.0	1.0	**110**
Beryllium (ICP)	BICSG029	ug/g	0.20	0.20	**nd**
Bismuth (ICP)	BICSG029	ug/g	5.0	5.0	**nd**
Cadmium (ICP)	BICSG029	ug/g	1.0	1.0	**nd**

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Sample: BH-14 .5-2.5 Continued...	Run ID	units	DL	PQL	Result
Calcium (ICP)	BICSG029	ug/g	100	100	**250,000**
Chromium (ICP)	BICSG029	ug/g	1.0	1.0	**9.0**
Cobalt (ICP)	BICSG029	ug/g	1.0	1.0	**6.0**
Copper (ICP)	BICSG029	ug/g	1.0	1.0	**20**
Iron (ICP)	BICSG029	ug/g	100	100	**9,400**
Lead (ICP)	BICSG029	ug/g	1.0	1.0	**34**
Lithium (ICP)	BICSG029	ug/g	1.0	1.0	**nd**
Magnesium (ICP)	BICSG029	ug/g	100	100	**5,900**
Manganese (ICP)	BICSG029	ug/g	1.0	1.0	**210**
Molybdenum (ICP)	BICSG029	ug/g	1.0	1.0	**nd**
Nickel (ICP)	BICSG029	ug/g	1.0	1.0	**8.0**
Niobium (ICP)	BICSG029	ug/g	5.0	5.0	**nd**
Potassium (ICP)	BICSG029	ug/g	500	500	**nd**
Silver (ICP)	BICSG029	ug/g	0.50	0.50	**nd**
Sodium (ICP)	BICSG029	ug/g	100	100	**500**
Strontium (ICP)	BICSG029	ug/g	1.0	1.0	**340**
Tin (ICP)	BICSG029	ug/g	20	20	**nd**
Titanium (ICP)	BICSG029	ug/g	1.0	1.0	**160**
Tungsten (ICP)	BICSG029	ug/g	20	20	**20**
Vanadium (ICP)	BICSG029	ug/g	1.0	1.0	**28**
Yttrium (ICP)	BICSG029	ug/g	1.0	1.0	**nd**
Zinc (ICP)	BICSG029	ug/g	1.0	1.0	**15**

Sample ID: BH-21 .5-2.5

Paracel ID: C1664.7

Matrix: Soil
Date Sampled: 09/26/97

Parameter	Run ID	units	DL	PQL	Result
Aluminum (ICP)	BICSG029	ug/g	100	100	**10,000**
Antimony (ICP)	BICSG029	ug/g	5.0	5.0	**nd**
Arsenic (ICP)	BICSG029	ug/g	5.0	5.0	**5.0**
Barium (ICP)	BICSG029	ug/g	1.0	1.0	**500**
Beryllium (ICP)	BICSG029	ug/g	0.20	0.20	**0.60**
Bismuth (ICP)	BICSG029	ug/g	5.0	5.0	**nd**
Cadmium (ICP)	BICSG029	ug/g	1.0	1.0	**nd**
Calcium (ICP)	BICSG029	ug/g	100	100	**68,000**
Chromium (ICP)	BICSG029	ug/g	1.0	1.0	**12**
Cobalt (ICP)	BICSG029	ug/g	1.0	1.0	**4.0**
Copper (ICP)	BICSG029	ug/g	1.0	1.0	**16**
Iron (ICP)	BICSG029	ug/g	100	100	**27,000**
Lead (ICP)	BICSG029	ug/g	1.0	1.0	**100**
Lithium (ICP)	BICSG029	ug/g	1.0	1.0	**nd**
Magnesium (ICP)	BICSG029	ug/g	100	100	**7,000**
Manganese (ICP)	BICSG029	ug/g	1.0	1.0	**200**
Molybdenum (ICP)	BICSG029	ug/g	1.0	1.0	**12**
Nickel (ICP)	BICSG029	ug/g	1.0	1.0	**13**
Niobium (ICP)	BICSG029	ug/g	5.0	5.0	**nd**

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Client: **Intera Consultants Ltd.**
Client Ref:

Project: **97-237**

Sample: BH-21 .5-2.5 Continued...	Run ID	units	DL	PQL	Result
Potassium (ICP)	BICSG029	ug/g	500	500	**nd**
Silver (ICP)	BICSG029	ug/g	0.50	0.50	**nd**
Sodium (ICP)	BICSG029	ug/g	100	100	**600**
Strontium (ICP)	BICSG029	ug/g	1.0	1.0	**290**
Tin (ICP)	BICSG029	ug/g	20	20	**nd**
Titanium (ICP)	BICSG029	ug/g	1.0	1.0	**400**
Tungsten (ICP)	BICSG029	ug/g	20	20	**nd**
Vanadium (ICP)	BICSG029	ug/g	1.0	1.0	**18**
Yttrium (ICP)	BICSG029	ug/g	1.0	1.0	**3.0**
Zinc (ICP)	BICSG029	ug/g	1.0	1.0	**70**

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Glossary of Terms

DL	The laboratory Detection Limit. The value is based on instrument response and is the lowest level that can be quantitated with confidence
PQL	The Practical Quantitation Limit for the sample. It is the lowest level at which the parameter could be quantitated in this sample. Elevated practical quantitation limits may be due to high analyte concentration, matrix interferences, available sample volume, or other factors.
nd	Not detected or found below the detection limit.
n/a	Not applicable to this particular analysis.
Surrogate Data	Surrogates are 'not naturally occuring' 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.
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. SAMPLE - Results from the analysis of the unfortified sample. SPIKE- 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.

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Paracel Laboratories Ltd.

Order #C1475

Certificate of Analysis

Intera Consultants Ltd.
265 Carling Avenue, suite 208
Ottawa, Ontario K1S 2E1
Attn:

Voice: 613-232-2525
Fax: 613-232-7149

Clients Ref: **97-237**
Project: **97-237**
Reference:

Report Date: **10/06/97**
Order Date: **09/26/97**
Sample Date: **09/26/97**

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

Paracel ID	Client ID
C1475.1	BH-1 2.5-4.5
C1475.2	BH-2 0.5-2.5
C1475.3	BH-3 0.5-2.5
C1475.4	BH-5 0.5-2.5
C1475.5	BH-6 0.5-2.5
C1475.6	BH-8 0-2
C1475.7	BH-8 2.5-4.5
C1475.8	BH-9 0.5-2.5
C1475.9	BH-10 0.5-2.5
C1475.10	BH-14 0.5-2.5
C1475.11	BH-15 3.0-5.0
C1475.12	BH-19 0-2
C1475.13	BH-21 0.5-2.5
C1475.14	BH-22 0.5-2.5
C1475.15	BH-23 0.5-2.5
C1475.16	BH-25 0.5-2.5
C1475.17	BH-30 0.5-2.5
C1475.18	BH-12 0.5-2.5
C1475.19	BH-4 0.5-2.5

Approved By: _____ Dale Robertson, B.Sc.

Paracel Laboratories Ltd.

Certificate of Analysis

Date: **10/06/97**

Order # **C1475**

Client: **Intera Consultants Ltd.**

Client Ref: **97-237**

Project: **97-237**

Note - DL is the lowest detection limit normally attainable by the laboratory and PQL is the lowest practical quantitation limit attainable for the sample. If the PQL is greater than the DL, the PQL levels apply to the sample.
- Run ID can be used to relate sample data to QC data when more than one QC run is included.

Sample ID: BH-1 2.5-4.5

Matrix: Soil

Paracel ID: C1475.1

Date Sampled: 09/26/97

Parameter	Run ID	units	DL	PQL	Result
Benzene	IJ26BB	ug/g	0.025	0.038	**nd**
Ethylbenzene	IJ26BB	ug/g	0.025	0.038	**nd**
Toluene	IJ26BB	ug/g	0.025	0.038	**nd**
m/p-Xylene	IJ26BB	ug/g	0.025	0.038	**nd**
o-Xylene	IJ26BB	ug/g	0.025	0.038	**nd**
Toluene-D8	IJ26BB	Surrogate	n/a	n/a	**98%**
Petroleum Hydrocarbons (gasoline)	A0000249	ug/g	10	10	**nd**
Petroleum Hydrocarbons (diesel)	A0000249	ug/g	10	10	**nd**

Sample ID: BH-2 0.5-2.5

Matrix: Soil

Paracel ID: C1475.2

Date Sampled: 09/26/97

Parameter	Run ID	units	DL	PQL	Result
Aluminum (ICP)	BIASG005	ug/g	1.0	1.0	**6,500**
Barium (ICP)	BIASG005	ug/g	1.0	1.0	**23**
Beryllium (ICP)	BIASG005	ug/g	1.0	1.0	**nd**
Cadmium (ICP)	BIASG005	ug/g	0.50	0.50	**nd**
Calcium (ICP)	BIASG005	ug/g	100	100	**58,000**
Chromium (ICP)	BIASG005	ug/g	1.0	1.0	**9.0**
Cobalt (ICP)	BIASG005	ug/g	1.0	1.0	**1.0**
Copper (ICP)	BIASG005	ug/g	1.0	1.0	**11**
Iron (ICP)	BIASG005	ug/g	1.0	1.0	**11,000**
Lead (ICP)	BIASG005	ug/g	1.0	1.0	**7.0**
Magnesium (ICP)	BIASG005	ug/g	100	100	**23,000**
Manganese (ICP)	BIASG005	ug/g	1.0	1.0	**550**
Molybdenum (ICP)	BIASG005	ug/g	1.0	1.0	**nd**
Nickel (ICP)	BIASG005	ug/g	1.0	1.0	**8.0**
Potassium (ICP)	BIASG005	ug/g	100	100	**700**
Silver (ICP)	BIASG005	ug/g	1.0	1.0	**nd**
Sodium (ICP)	BIASG005	ug/g	25	25	**630**
Strontium (ICP)	BIASG005	ug/g	1.0	1.0	**65**
Thallium (ICP)	BIASG005	ug/g	4.0	4.0	**nd**
Vanadium (ICP)	BIASG005	ug/g	1.0	1.0	**14**
Zinc (ICP)	BIASG005	ug/g	1.0	1.0	**52**

Sample ID: BH-3 0.5-2.5

Matrix: Soil

Paracel ID: C1475.3

Date Sampled: 09/26/97

Parameter	Run ID	units	DL	PQL	Result
Aluminum (ICP)	BIASG005	ug/g	1.0	1.0	**18,000**

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Project: **97-237**

Sample: BH-3 0.5-2.5 Continued...	Run ID	units	DL	PQL	Result
Barium (ICP)	BIASG005	ug/g	1.0	1.0	**130**
Beryllium (ICP)	BIASG005	ug/g	1.0	1.0	**nd**
Cadmium (ICP)	BIASG005	ug/g	0.50	0.50	**nd**
Calcium (ICP)	BIASG005	ug/g	100	100	**60,000**
Chromium (ICP)	BIASG005	ug/g	1.0	1.0	**26**
Cobalt (ICP)	BIASG005	ug/g	1.0	1.0	**3.0**
Copper (ICP)	BIASG005	ug/g	1.0	1.0	**16**
Iron (ICP)	BIASG005	ug/g	1.0	1.0	**18,000**
Lead (ICP)	BIASG005	ug/g	1.0	1.0	**43**
Magnesium (ICP)	BIASG005	ug/g	100	100	**11,000**
Manganese (ICP)	BIASG005	ug/g	1.0	1.0	**390**
Molybdenum (ICP)	BIASG005	ug/g	1.0	1.0	**nd**
Nickel (ICP)	BIASG005	ug/g	1.0	1.0	**17**
Potassium (ICP)	BIASG005	ug/g	100	100	**2,300**
Silver (ICP)	BIASG005	ug/g	1.0	1.0	**nd**
Sodium (ICP)	BIASG005	ug/g	25	25	**1,500**
Strontium (ICP)	BIASG005	ug/g	1.0	1.0	**100**
Thallium (ICP)	BIASG005	ug/g	4.0	4.0	**nd**
Vanadium (ICP)	BIASG005	ug/g	1.0	1.0	**27**
Zinc (ICP)	BIASG005	ug/g	1.0	1.0	**72**

Sample ID: BH-5 0.5-2.5

Paracel ID: C1475.4

Matrix: Soil
Date Sampled: 09/26/97

Parameter	Run ID	units	DL	PQL	Result
Acenaphthene	IJ28PA	ug/g	0.0033	0.0033	**0.016**
Acenaphthylene	IJ28PA	ug/g	0.0033	0.0033	**0.013**
Anthracene	IJ28PA	ug/g	0.0033	0.0033	**0.040**
Benzo[a]anthracene	IJ28PA	ug/g	0.0033	0.0033	**0.10**
Benzo[a]pyrene	IJ28PA	ug/g	0.0033	0.0033	**0.16**
Benzo[b+k]fluoranthene	IJ28PA	ug/g	0.0066	0.0066	**0.22**
Benzo[ghi]perylene	IJ28PA	ug/g	0.0033	0.0033	**0.086**
Biphenyl	IJ28PA	ug/g	0.0033	0.0033	**0.023**
Chrysene	IJ28PA	ug/g	0.0033	0.0033	**0.14**
Dibenzo[a,h]anthracene	IJ28PA	ug/g	0.0033	0.0033	**0.030**
Fluoranthene	IJ28PA	ug/g	0.0033	0.0033	**0.25**
Fluorene	IJ28PA	ug/g	0.0033	0.0033	**0.013**
Indeno[1,2,3-cd]pyrene	IJ28PA	ug/g	0.0033	0.0033	**0.079**
1-Methylnaphthalene	IJ28PA	ug/g	0.0033	0.0033	**0.16**
2-Methylnaphthalene	IJ28PA	ug/g	0.0033	0.0033	**0.16**
Naphthalene	IJ28PA	ug/g	0.0033	0.0033	**0.10**
Phenanthrene	IJ28PA	ug/g	0.0033	0.0033	**0.25**
Pyrene	IJ28PA	ug/g	0.0033	0.0033	**0.21**
2-Fluorobiphenyl	IJ28PA	Surrogate	n/a	n/a	**77%**

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Client: **Intera Consultants Ltd.**
Client Ref: **97-237**

Project: **97-237**

Sample: BH-5 0.5-2.5 Continued...	Run ID	units	DL	PQL	Result
p-Terphenyl d-14	IJ28PA	Surrogate	n/a	n/a	**116%**

Sample ID: BH-6 0.5-2.5

Paracel ID: C1475.5

Matrix: Soil
Date Sampled: 09/26/97

Parameter	Run ID	units	DL	PQL	Result
Benzene	IJ26BB	ug/g	0.025	0.038	**nd**
Ethylbenzene	IJ26BB	ug/g	0.025	0.038	**nd**
Toluene	IJ26BB	ug/g	0.025	0.038	**nd**
m/p-Xylene	IJ26BB	ug/g	0.025	0.038	**nd**
o-Xylene	IJ26BB	ug/g	0.025	0.038	**nd**
Toluene-D8	IJ26BB	Surrogate	n/a	n/a	**104%**
Petroleum Hydrocarbons (gasoline)	A0000249	ug/g	10	10	**nd**
Petroleum Hydrocarbons (diesel)	A0000249	ug/g	10	10	**nd**
Aluminum (ICP)	BIASG005	ug/g	1.0	1.0	**18,000**
Barium (ICP)	BIASG005	ug/g	1.0	1.0	**200**
Beryllium (ICP)	BIASG005	ug/g	1.0	1.0	**nd**
Cadmium (ICP)	BIASG005	ug/g	0.50	0.50	**nd**
Calcium (ICP)	BIASG005	ug/g	100	100	**23,000**
Chromium (ICP)	BIASG005	ug/g	1.0	1.0	**30**
Cobalt (ICP)	BIASG005	ug/g	1.0	1.0	**nd**
Copper (ICP)	BIASG005	ug/g	1.0	1.0	**20**
Iron (ICP)	BIASG005	ug/g	1.0	1.0	**25,000**
Lead (ICP)	BIASG005	ug/g	1.0	1.0	**180**
Magnesium (ICP)	BIASG005	ug/g	100	100	**2,000**
Manganese (ICP)	BIASG005	ug/g	1.0	1.0	**110**
Molybdenum (ICP)	BIASG005	ug/g	1.0	1.0	**2.0**
Nickel (ICP)	BIASG005	ug/g	1.0	1.0	**18**
Potassium (ICP)	BIASG005	ug/g	100	100	**600**
Silver (ICP)	BIASG005	ug/g	1.0	1.0	**nd**
Sodium (ICP)	BIASG005	ug/g	25	25	**750**
Strontium (ICP)	BIASG005	ug/g	1.0	1.0	**240**
Thallium (ICP)	BIASG005	ug/g	4.0	4.0	**nd**
Vanadium (ICP)	BIASG005	ug/g	1.0	1.0	**26**
Zinc (ICP)	BIASG005	ug/g	1.0	1.0	**140**

Sample ID: BH-8 0-2

Paracel ID: C1475.6

Matrix: Soil
Date Sampled: 09/26/97

Parameter	Run ID	units	DL	PQL	Result
Aluminum (ICP)	BIASG005	ug/g	1.0	1.0	**6,700**
Barium (ICP)	BIASG005	ug/g	1.0	1.0	**51**
Beryllium (ICP)	BIASG005	ug/g	1.0	1.0	**nd**
Cadmium (ICP)	BIASG005	ug/g	0.50	0.50	**nd**

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Sample: BH-8 0-2 Continued...	Run ID	units	DL	PQL	Result
Calcium (ICP)	BIASG005	ug/g	100	100	**120,000**
Chromium (ICP)	BIASG005	ug/g	1.0	1.0	**10**
Cobalt (ICP)	BIASG005	ug/g	1.0	1.0	**2.0**
Copper (ICP)	BIASG005	ug/g	1.0	1.0	**7.0**
Iron (ICP)	BIASG005	ug/g	1.0	1.0	**9,900**
Lead (ICP)	BIASG005	ug/g	1.0	1.0	**50**
Magnesium (ICP)	BIASG005	ug/g	100	100	**41,000**
Manganese (ICP)	BIASG005	ug/g	1.0	1.0	**450**
Molybdenum (ICP)	BIASG005	ug/g	1.0	1.0	**3.0**
Nickel (ICP)	BIASG005	ug/g	1.0	1.0	**11**
Potassium (ICP)	BIASG005	ug/g	100	100	**600**
Silver (ICP)	BIASG005	ug/g	1.0	1.0	**nd**
Sodium (ICP)	BIASG005	ug/g	25	25	**300**
Strontium (ICP)	BIASG005	ug/g	1.0	1.0	**120**
Thallium (ICP)	BIASG005	ug/g	4.0	4.0	**nd**
Vanadium (ICP)	BIASG005	ug/g	1.0	1.0	**14**
Zinc (ICP)	BIASG005	ug/g	1.0	1.0	**52**

Sample ID: BH-8 2.5-4.5

Paracel ID: C1475.7 **Matrix: Soil** **Date Sampled: 09/26/97**

Parameter	Run ID	units	DL	PQL	Result
Acenaphthene	IJ28PA	ug/g	0.0033	0.017	**0.016**
Acenaphthylene	IJ28PA	ug/g	0.0033	0.017	**0.016**
Anthracene	IJ28PA	ug/g	0.0033	0.017	**0.066**
Benzo[a]anthracene	IJ28PA	ug/g	0.0033	0.017	**0.15**
Benzo[a]pyrene	IJ28PA	ug/g	0.0033	0.017	**0.17**
Benzo[b+k]fluoranthene	IJ28PA	ug/g	0.0066	0.033	**0.23**
Benzo[ghi]perylene	IJ28PA	ug/g	0.0033	0.017	**0.083**
Biphenyl	IJ28PA	ug/g	0.0033	0.017	**0.033**
Chrysene	IJ28PA	ug/g	0.0033	0.017	**0.17**
Dibenzo[a,h]anthracene	IJ28PA	ug/g	0.0033	0.017	**0.033**
Fluoranthene	IJ28PA	ug/g	0.0033	0.017	**0.26**
Fluorene	IJ28PA	ug/g	0.0033	0.017	**0.016**
Indeno[1,2,3-cd]pyrene	IJ28PA	ug/g	0.0033	0.017	**0.066**
1-Methylnaphthalene	IJ28PA	ug/g	0.0033	0.017	**0.17**
2-Methylnaphthalene	IJ28PA	ug/g	0.0033	0.017	**0.18**
Naphthalene	IJ28PA	ug/g	0.0033	0.017	**0.13**
Phenanthrene	IJ28PA	ug/g	0.0033	0.017	**0.28**
Pyrene	IJ28PA	ug/g	0.0033	0.017	**0.23**
2-Fluorobiphenyl	IJ28PA	Surrogate	n/a	n/a	**NA - Dilution**
p-Terphenyl d-14	IJ28PA	Surrogate	n/a	n/a	**NA - Dilution**

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Client: **Intera Consultants Ltd.**
Client Ref: **97-237**

Project: **97-237**

Sample ID: BH-9 0.5-2.5

Paracel ID: C1475.8

Matrix: Soil
Date Sampled: 09/26/97

Parameter	Run ID	units	DL	PQL	Result
Aluminum (ICP)	BIASG005	ug/g	1.0	1.0	**16,000**
Barium (ICP)	BIASG005	ug/g	1.0	1.0	**230**
Beryllium (ICP)	BIASG005	ug/g	1.0	1.0	**1.0**
Cadmium (ICP)	BIASG005	ug/g	0.50	0.50	**nd**
Calcium (ICP)	BIASG005	ug/g	100	100	**36,000**
Chromium (ICP)	BIASG005	ug/g	1.0	1.0	**15**
Cobalt (ICP)	BIASG005	ug/g	1.0	1.0	**nd**
Copper (ICP)	BIASG005	ug/g	1.0	1.0	**20**
Iron (ICP)	BIASG005	ug/g	1.0	1.0	**30,000**
Lead (ICP)	BIASG005	ug/g	1.0	1.0	**33**
Magnesium (ICP)	BIASG005	ug/g	100	100	**2,700**
Manganese (ICP)	BIASG005	ug/g	1.0	1.0	**160**
Molybdenum (ICP)	BIASG005	ug/g	1.0	1.0	**3.0**
Nickel (ICP)	BIASG005	ug/g	1.0	1.0	**17**
Potassium (ICP)	BIASG005	ug/g	100	100	**800**
Silver (ICP)	BIASG005	ug/g	1.0	1.0	**nd**
Sodium (ICP)	BIASG005	ug/g	25	25	**980**
Strontium (ICP)	BIASG005	ug/g	1.0	1.0	**260**
Thallium (ICP)	BIASG005	ug/g	4.0	4.0	**nd**
Vanadium (ICP)	BIASG005	ug/g	1.0	1.0	**25**
Zinc (ICP)	BIASG005	ug/g	1.0	1.0	**41**
Acenaphthene	IJ28PA	ug/g	0.0033	0.0033	**0.026**
Acenaphthylene	IJ28PA	ug/g	0.0033	0.0033	**0.016**
Anthracene	IJ28PA	ug/g	0.0033	0.0033	**0.0099**
Benzo[a]anthracene	IJ28PA	ug/g	0.0033	0.0033	**0.069**
Benzo[a]pyrene	IJ28PA	ug/g	0.0033	0.0033	**0.069**
Benzo[b+k]fluoranthene	IJ28PA	ug/g	0.0066	0.0066	**0.073**
Benzo[ghi]perylene	IJ28PA	ug/g	0.0033	0.0033	**0.026**
Biphenyl	IJ28PA	ug/g	0.0033	0.0033	**0.11**
Chrysene	IJ28PA	ug/g	0.0033	0.0033	**0.096**
Dibenzo[a,h]anthracene	IJ28PA	ug/g	0.0033	0.0033	**0.0099**
Fluoranthene	IJ28PA	ug/g	0.0033	0.0033	**0.083**
Fluorene	IJ28PA	ug/g	0.0033	0.0033	**0.023**
Indeno[1,2,3-cd]pyrene	IJ28PA	ug/g	0.0033	0.0033	**0.016**
1-Methylnaphthalene	IJ28PA	ug/g	0.0033	0.0033	**0.99**
2-Methylnaphthalene	IJ28PA	ug/g	0.0033	0.0033	**1.2**
Naphthalene	IJ28PA	ug/g	0.0033	0.0033	**0.69**
Phenanthrene	IJ28PA	ug/g	0.0033	0.0033	**0.49**
Pyrene	IJ28PA	ug/g	0.0033	0.0033	**0.086**
2-Fluorobiphenyl	IJ28PA	Surrogate	n/a	n/a	**80%**
p-Terphenyl d-14	IJ28PA	Surrogate	n/a	n/a	**90%**

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Client: **Intera Consultants Ltd.**
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Project: **97-237**

Sample ID: BH-10 0.5-2.5

Matrix: Soil
Paracel ID: C1475.9
Date Sampled: 09/26/97

Parameter	Run ID	units	DL	PQL	Result
Aluminum (ICP)	BIASG005	ug/g	1.0	1.0	**13,000**
Barium (ICP)	BIASG005	ug/g	1.0	1.0	**260**
Beryllium (ICP)	BIASG005	ug/g	1.0	1.0	**nd**
Cadmium (ICP)	BIASG005	ug/g	0.50	0.50	**nd**
Calcium (ICP)	BIASG005	ug/g	100	100	**190,000**
Chromium (ICP)	BIASG005	ug/g	1.0	1.0	**12**
Cobalt (ICP)	BIASG005	ug/g	1.0	1.0	**1.0**
Copper (ICP)	BIASG005	ug/g	1.0	1.0	**29**
Iron (ICP)	BIASG005	ug/g	1.0	1.0	**21,000**
Lead (ICP)	BIASG005	ug/g	1.0	1.0	**130**
Magnesium (ICP)	BIASG005	ug/g	100	100	**9,000**
Manganese (ICP)	BIASG005	ug/g	1.0	1.0	**330**
Molybdenum (ICP)	BIASG005	ug/g	1.0	1.0	**3.0**
Nickel (ICP)	BIASG005	ug/g	1.0	1.0	**16**
Potassium (ICP)	BIASG005	ug/g	100	100	**1,100**
Silver (ICP)	BIASG005	ug/g	1.0	1.0	**nd**
Sodium (ICP)	BIASG005	ug/g	25	25	**680**
Strontium (ICP)	BIASG005	ug/g	1.0	1.0	**400**
Thallium (ICP)	BIASG005	ug/g	4.0	4.0	**nd**
Vanadium (ICP)	BIASG005	ug/g	1.0	1.0	**14**
Zinc (ICP)	BIASG005	ug/g	1.0	1.0	**120**

Sample ID: BH-14 0.5-2.5

Matrix: Soil
Paracel ID: C1475.10
Date Sampled: 09/26/97

Parameter	Run ID	units	DL	PQL	Result
Benzene	IJ26BB	ug/g	0.025	0.038	**nd**
Ethylbenzene	IJ26BB	ug/g	0.025	0.038	**nd**
Toluene	IJ26BB	ug/g	0.025	0.038	**nd**
m/p-Xylene	IJ26BB	ug/g	0.025	0.038	**nd**
o-Xylene	IJ26BB	ug/g	0.025	0.038	**nd**
Toluene-D8	IJ26BB	Surrogate	n/a	n/a	**106%**
Petroleum Hydrocarbons (gasoline)	A0000249	ug/g	10	10	**nd**
Petroleum Hydrocarbons (diesel)	A0000249	ug/g	10	10	**nd**
Acenaphthene	IJ28PA	ug/g	0.0033	0.017	**0.050**
Acenaphthylene	IJ28PA	ug/g	0.0033	0.017	**0.050**
Anthracene	IJ28PA	ug/g	0.0033	0.017	**0.26**
Benzo[a]anthracene	IJ28PA	ug/g	0.0033	0.017	**1.0**
Benzo[a]pyrene	IJ28PA	ug/g	0.0033	0.017	**1.6**
Benzo[b+k]fluoranthene	IJ28PA	ug/g	0.0066	0.033	**1.8**
Benzo[ghi]perylene	IJ28PA	ug/g	0.0033	0.017	**1.2**
Biphenyl	IJ28PA	ug/g	0.0033	0.017	**nd**

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Client: **Intera Consultants Ltd.**
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Project: **97-237**

Sample: BH-14 0.5-2.5 Continued...	**Run ID**	**units**	**DL**	**PQL**	**Result**
Chrysene	IJ28PA	ug/g	0.0033	0.017	**1.0**
Dibenzo[a,h]anthracene	IJ28PA	ug/g	0.0033	0.017	**0.30**
Fluoranthene	IJ28PA	ug/g	0.0033	0.017	**1.7**
Fluorene	IJ28PA	ug/g	0.0033	0.017	**0.050**
Indeno[1,2,3-cd]pyrene	IJ28PA	ug/g	0.0033	0.017	**0.89**
1-Methylnaphthalene	IJ28PA	ug/g	0.0033	0.017	**0.033**
2-Methylnaphthalene	IJ28PA	ug/g	0.0033	0.017	**0.033**
Naphthalene	IJ28PA	ug/g	0.0033	0.017	**0.033**
Phenanthrene	IJ28PA	ug/g	0.0033	0.017	**0.63**
Pyrene	IJ28PA	ug/g	0.0033	0.017	**1.6**
2-Fluorobiphenyl	IJ28PA	Surrogate	n/a	n/a	**NA - Dilution**
p-Terphenyl d-14	IJ28PA	Surrogate	n/a	n/a	**NA - Dilution**

Sample ID: BH-15 3.0-5.0

Matrix: Soil

Paracel ID: C1475.11

Date Sampled: 09/26/97

Parameter	**Run ID**	**units**	**DL**	**PQL**	**Result**
Benzene	IJ26BB	ug/g	0.025	0.038	**nd**
Ethylbenzene	IJ26BB	ug/g	0.025	0.038	**nd**
Toluene	IJ26BB	ug/g	0.025	0.038	**nd**
m/p-Xylene	IJ26BB	ug/g	0.025	0.038	**nd**
o-Xylene	IJ26BB	ug/g	0.025	0.038	**nd**
Toluene-D8	IJ26BB	Surrogate	n/a	n/a	**104%**
Petroleum Hydrocarbons (gasoline)	A0000249	ug/g	10	10	**nd**
Petroleum Hydrocarbons (diesel)	A0000249	ug/g	10	10	**nd**

Sample ID: BH-19 0-2

Matrix: Soil

Paracel ID: C1475.12

Date Sampled: 09/26/97

Parameter	**Run ID**	**units**	**DL**	**PQL**	**Result**
Aluminum (ICP)	BIASG005	ug/g	1.0	1.0	**5,100**
Barium (ICP)	BIASG005	ug/g	1.0	1.0	**63**
Beryllium (ICP)	BIASG005	ug/g	1.0	1.0	**nd**
Cadmium (ICP)	BIASG005	ug/g	0.50	0.50	**nd**
Calcium (ICP)	BIASG005	ug/g	100	100	**100,000**
Chromium (ICP)	BIASG005	ug/g	1.0	1.0	**13**
Cobalt (ICP)	BIASG005	ug/g	1.0	1.0	**nd**
Copper (ICP)	BIASG005	ug/g	1.0	1.0	**19**
Iron (ICP)	BIASG005	ug/g	1.0	1.0	**10,000**
Lead (ICP)	BIASG005	ug/g	1.0	1.0	**350**
Magnesium (ICP)	BIASG005	ug/g	100	100	**15,000**
Manganese (ICP)	BIASG005	ug/g	1.0	1.0	**260**
Molybdenum (ICP)	BIASG005	ug/g	1.0	1.0	**nd**
Nickel (ICP)	BIASG005	ug/g	1.0	1.0	**13**

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Client: **Intera Consultants Ltd.**
Client Ref: **97-237**

Project: **97-237**

Sample: BH-19 0-2 Continued...	Run ID	units	DL	PQL	Result
Potassium (ICP)	BIASG005	ug/g	100	100	**600**
Silver (ICP)	BIASG005	ug/g	1.0	1.0	**nd**
Sodium (ICP)	BIASG005	ug/g	25	25	**230**
Strontium (ICP)	BIASG005	ug/g	1.0	1.0	**370**
Thallium (ICP)	BIASG005	ug/g	4.0	4.0	**nd**
Vanadium (ICP)	BIASG005	ug/g	1.0	1.0	**27**
Zinc (ICP)	BIASG005	ug/g	1.0	1.0	**190**

Sample ID: BH-21 0.5-2.5

Paracel ID: C1475.13

Matrix: Soil
Date Sampled: 09/26/97

Parameter	Run ID	units	DL	PQL	Result
Benzene	IJ26BB	ug/g	0.025	0.038	**nd**
Ethylbenzene	IJ26BB	ug/g	0.025	0.038	**nd**
Toluene	IJ26BB	ug/g	0.025	0.038	**nd**
m/p-Xylene	IJ26BB	ug/g	0.025	0.038	**nd**
o-Xylene	IJ26BB	ug/g	0.025	0.038	**nd**
Toluene-D8	IJ26BB	Surrogate	n/a	n/a	**98%**
Petroleum Hydrocarbons (gasoline)	A0000249	ug/g	10	10	**nd**
Petroleum Hydrocarbons (diesel)	A0000249	ug/g	10	10	**nd**
Acenaphthene	IJ28PA	ug/g	0.0033	0.033	**nd**
Acenaphthylene	IJ28PA	ug/g	0.0033	0.033	**0.033**
Anthracene	IJ28PA	ug/g	0.0033	0.033	**0.033**
Benzo[a]anthracene	IJ28PA	ug/g	0.0033	0.033	**0.23**
Benzo[a]pyrene	IJ28PA	ug/g	0.0033	0.033	**0.23**
Benzo[b+k]fluoranthene	IJ28PA	ug/g	0.0066	0.066	**0.26**
Benzo[ghi]perylene	IJ28PA	ug/g	0.0033	0.033	**0.099**
Biphenyl	IJ28PA	ug/g	0.0033	0.033	**0.066**
Chrysene	IJ28PA	ug/g	0.0033	0.033	**0.26**
Dibenzo[a,h]anthracene	IJ28PA	ug/g	0.0033	0.033	**nd**
Fluoranthene	IJ28PA	ug/g	0.0033	0.033	**0.26**
Fluorene	IJ28PA	ug/g	0.0033	0.033	**nd**
Indeno[1,2,3-cd]pyrene	IJ28PA	ug/g	0.0033	0.033	**0.066**
1-Methylnaphthalene	IJ28PA	ug/g	0.0033	0.033	**0.63**
2-Methylnaphthalene	IJ28PA	ug/g	0.0033	0.033	**0.69**
Naphthalene	IJ28PA	ug/g	0.0033	0.033	**0.46**
Phenanthrene	IJ28PA	ug/g	0.0033	0.033	**0.46**
Pyrene	IJ28PA	ug/g	0.0033	0.033	**0.30**
2-Fluorobiphenyl	IJ28PA	Surrogate	n/a	n/a	**NA - Dilution**
p-Terphenyl d-14	IJ28PA	Surrogate	n/a	n/a	**NA - Dilution**

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Client: **Intera Consultants Ltd.**
Client Ref: **97-237**

Project: **97-237**

Sample ID: BH-22 0.5-2.5

Paracel ID: C1475.14

Matrix: Soil
Date Sampled: 09/26/97

Parameter	Run ID	units	DL	PQL	Result
Aluminum (ICP)	BIASG005	ug/g	1.0	1.0	**12,000**
Barium (ICP)	BIASG005	ug/g	1.0	1.0	**310**
Beryllium (ICP)	BIASG005	ug/g	1.0	1.0	**1.0**
Cadmium (ICP)	BIASG005	ug/g	0.50	0.50	**nd**
Calcium (ICP)	BIASG005	ug/g	100	100	**42,000**
Chromium (ICP)	BIASG005	ug/g	1.0	1.0	**13**
Cobalt (ICP)	BIASG005	ug/g	1.0	1.0	**nd**
Copper (ICP)	BIASG005	ug/g	1.0	1.0	**31**
Iron (ICP)	BIASG005	ug/g	1.0	1.0	**32,000**
Lead (ICP)	BIASG005	ug/g	1.0	1.0	**96**
Magnesium (ICP)	BIASG005	ug/g	100	100	**2,800**
Manganese (ICP)	BIASG005	ug/g	1.0	1.0	**180**
Molybdenum (ICP)	BIASG005	ug/g	1.0	1.0	**4.0**
Nickel (ICP)	BIASG005	ug/g	1.0	1.0	**18**
Potassium (ICP)	BIASG005	ug/g	100	100	**500**
Silver (ICP)	BIASG005	ug/g	1.0	1.0	**nd**
Sodium (ICP)	BIASG005	ug/g	25	25	**550**
Strontium (ICP)	BIASG005	ug/g	1.0	1.0	**190**
Thallium (ICP)	BIASG005	ug/g	4.0	4.0	**nd**
Vanadium (ICP)	BIASG005	ug/g	1.0	1.0	**26**
Zinc (ICP)	BIASG005	ug/g	1.0	1.0	**55**

Sample ID: BH-23 0.5-2.5

Paracel ID: C1475.15

Matrix: Soil
Date Sampled: 09/26/97

Parameter	Run ID	units	DL	PQL	Result
Aluminum (ICP)	BIASG005	ug/g	1.0	1.0	**14,000**
Barium (ICP)	BIASG005	ug/g	1.0	1.0	**650**
Beryllium (ICP)	BIASG005	ug/g	1.0	1.0	**1.0**
Cadmium (ICP)	BIASG005	ug/g	0.50	0.50	**nd**
Calcium (ICP)	BIASG005	ug/g	100	100	**78,000**
Chromium (ICP)	BIASG005	ug/g	1.0	1.0	**18**
Cobalt (ICP)	BIASG005	ug/g	1.0	1.0	**nd**
Copper (ICP)	BIASG005	ug/g	1.0	1.0	**75**
Iron (ICP)	BIASG005	ug/g	1.0	1.0	**32,000**
Lead (ICP)	BIASG005	ug/g	1.0	1.0	**1,200**
Magnesium (ICP)	BIASG005	ug/g	100	100	**7,200**
Manganese (ICP)	BIASG005	ug/g	1.0	1.0	**410**
Molybdenum (ICP)	BIASG005	ug/g	1.0	1.0	**5.0**
Nickel (ICP)	BIASG005	ug/g	1.0	1.0	**15**
Potassium (ICP)	BIASG005	ug/g	100	100	**700**
Silver (ICP)	BIASG005	ug/g	1.0	1.0	**nd**

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Client Ref: **97-237**
Project: **97-237**

Sample: BH-23 0.5-2.5 Continued...	Run ID	units	DL	PQL	Result
Sodium (ICP)	BIASG005	ug/g	25	25	**750**
Strontium (ICP)	BIASG005	ug/g	1.0	1.0	**240**
Thallium (ICP)	BIASG005	ug/g	4.0	4.0	**nd**
Vanadium (ICP)	BIASG005	ug/g	1.0	1.0	**27**
Zinc (ICP)	BIASG005	ug/g	1.0	1.0	**220**

Sample ID: BH-25 0.5-2.5

Matrix: Soil
Paracel ID: C1475.16
Date Sampled: 09/26/97

Parameter	Run ID	units	DL	PQL	Result
Benzene	IJ26BB	ug/g	0.025	0.038	**nd**
Ethylbenzene	IJ26BB	ug/g	0.025	0.038	**nd**
Toluene	IJ26BB	ug/g	0.025	0.038	**nd**
m/p-Xylene	IJ26BB	ug/g	0.025	0.038	**nd**
o-Xylene	IJ26BB	ug/g	0.025	0.038	**nd**
Toluene-D8	IJ26BB	Surrogate	n/a	n/a	**103%**
Petroleum Hydrocarbons (gasoline)	A0000249	ug/g	10	10	**nd**
Petroleum Hydrocarbons (diesel)	A0000249	ug/g	10	10	**140**

Sample ID: BH-30 0.5-2.5

Matrix: Soil
Paracel ID: C1475.17
Date Sampled: 09/26/97

Parameter	Run ID	units	DL	PQL	Result
Aluminum (ICP)	BIASG005	ug/g	1.0	1.0	**10,000**
Barium (ICP)	BIASG005	ug/g	1.0	1.0	**160**
Beryllium (ICP)	BIASG005	ug/g	1.0	1.0	**nd**
Cadmium (ICP)	BIASG005	ug/g	0.50	0.50	**nd**
Calcium (ICP)	BIASG005	ug/g	100	100	**100,000**
Chromium (ICP)	BIASG005	ug/g	1.0	1.0	**25**
Cobalt (ICP)	BIASG005	ug/g	1.0	1.0	**nd**
Copper (ICP)	BIASG005	ug/g	1.0	1.0	**16**
Iron (ICP)	BIASG005	ug/g	1.0	1.0	**20,000**
Lead (ICP)	BIASG005	ug/g	1.0	1.0	**160**
Magnesium (ICP)	BIASG005	ug/g	100	100	**6,500**
Manganese (ICP)	BIASG005	ug/g	1.0	1.0	**160**
Molybdenum (ICP)	BIASG005	ug/g	1.0	1.0	**3.0**
Nickel (ICP)	BIASG005	ug/g	1.0	1.0	**14**
Potassium (ICP)	BIASG005	ug/g	100	100	**500**
Silver (ICP)	BIASG005	ug/g	1.0	1.0	**nd**
Sodium (ICP)	BIASG005	ug/g	25	25	**550**
Strontium (ICP)	BIASG005	ug/g	1.0	1.0	**240**
Thallium (ICP)	BIASG005	ug/g	4.0	4.0	**nd**
Vanadium (ICP)	BIASG005	ug/g	1.0	1.0	**19**

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Project: **97-237**

Sample: BH-30 0.5-2.5 Continued...	Run ID	units	DL	PQL	Result
Zinc (ICP)	BIASG005	ug/g	1.0	1.0	**120**

Sample ID: BH-12 0.5-2.5

Paracel ID: C1475.18

Matrix: Soil
Date Sampled: 09/26/97

Parameter	Run ID	units	DL	PQL	Result
Acenaphthene	IJ28PA	ug/g	0.0033	0.0035	**0.025**
Acenaphthylene	IJ28PA	ug/g	0.0033	0.0035	**0.074**
Anthracene	IJ28PA	ug/g	0.0033	0.0035	**0.084**
Benzo[a]anthracene	IJ28PA	ug/g	0.0033	0.0035	**0.36**
Benzo[a]pyrene	IJ28PA	ug/g	0.0033	0.0035	**0.49**
Benzo[b+k]fluoranthene	IJ28PA	ug/g	0.0066	0.0070	**0.56**
Benzo[ghi]perylene	IJ28PA	ug/g	0.0033	0.0035	**0.20**
Biphenyl	IJ28PA	ug/g	0.0033	0.0035	**0.011**
Chrysene	IJ28PA	ug/g	0.0033	0.0035	**0.34**
Dibenzo[a,h]anthracene	IJ28PA	ug/g	0.0033	0.0035	**0.070**
Fluoranthene	IJ28PA	ug/g	0.0033	0.0035	**0.53**
Fluorene	IJ28PA	ug/g	0.0033	0.0035	**0.028**
Indeno[1,2,3-cd]pyrene	IJ28PA	ug/g	0.0033	0.0035	**0.20**
1-Methylnaphthalene	IJ28PA	ug/g	0.0033	0.0035	**0.025**
2-Methylnaphthalene	IJ28PA	ug/g	0.0033	0.0035	**0.032**
Naphthalene	IJ28PA	ug/g	0.0033	0.0035	**0.028**
Phenanthrene	IJ28PA	ug/g	0.0033	0.0035	**0.22**
Pyrene	IJ28PA	ug/g	0.0033	0.0035	**0.46**
2-Fluorobiphenyl	IJ28PA	Surrogate	n/a	n/a	**NA - Dilution**
p-Terphenyl d-14	IJ28PA	Surrogate	n/a	n/a	**NA - Dilution**

Sample ID: BH-4 0.5-2.5

Paracel ID: C1475.19

Matrix: Soil
Date Sampled: 09/26/97

Parameter	Run ID	units	DL	PQL	Result
Aluminum (ICP)	BIASG005	ug/g	1.0	1.0	**6,100**
Barium (ICP)	BIASG005	ug/g	1.0	1.0	**63**
Beryllium (ICP)	BIASG005	ug/g	1.0	1.0	**nd**
Cadmium (ICP)	BIASG005	ug/g	0.50	0.50	**nd**
Calcium (ICP)	BIASG005	ug/g	100	100	**180,000**
Chromium (ICP)	BIASG005	ug/g	1.0	1.0	**9.0**
Cobalt (ICP)	BIASG005	ug/g	1.0	1.0	**1.0**
Copper (ICP)	BIASG005	ug/g	1.0	1.0	**10**
Iron (ICP)	BIASG005	ug/g	1.0	1.0	**8,400**
Lead (ICP)	BIASG005	ug/g	1.0	1.0	**49**
Magnesium (ICP)	BIASG005	ug/g	100	100	**23,000**
Manganese (ICP)	BIASG005	ug/g	1.0	1.0	**340**
Molybdenum (ICP)	BIASG005	ug/g	1.0	1.0	**nd**

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Client Ref: **97-237** Project: **97-237**

Sample: BH-4 0.5-2.5 Continued...	Run ID	units	DL	PQL	Result
Nickel (ICP)	BIASG005	ug/g	1.0	1.0	**9.0**
Potassium (ICP)	BIASG005	ug/g	100	100	**900**
Silver (ICP)	BIASG005	ug/g	1.0	1.0	**nd**
Sodium (ICP)	BIASG005	ug/g	25	25	**500**
Strontium (ICP)	BIASG005	ug/g	1.0	1.0	**210**
Thallium (ICP)	BIASG005	ug/g	4.0	4.0	**nd**
Vanadium (ICP)	BIASG005	ug/g	1.0	1.0	**12**
Zinc (ICP)	BIASG005	ug/g	1.0	1.0	**40**

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Paracel Laboratories Ltd.

Date: **10/06/97**

QA/QC Report - MATRIX BLANK

Note - The following portion of this report includes Matrix Blank data relating to all of the samples included in the Certificate of Analysis.
- More that one Matrix Blank for a parameter usually indicates that the samples were analyzed under more that one QC group. The Run ID can be used to relate a Matrix Blank to particular samples.

Method:SW-846 8015/3500A (GC-FID)

Run ID: A0000249 — **Matrix: Soil**

Parameter	units	DL	Measured
Petroleum Hydrocarbons (gasoline)	ug/g	10	nd
Petroleum Hydrocarbons (diesel)	ug/g	10	nd

Method:SW-846 Method 8260/3550

Run ID: IJ26BB — **Matrix: Soil**

Parameter	units	DL	Measured
Benzene	ug/g	0.025	nd
Ethylbenzene	ug/g	0.025	nd
Toluene	ug/g	0.025	nd
m/p-Xylene	ug/g	0.025	nd
o-Xylene	ug/g	0.025	nd
Toluene-D8	Surrogate	n/a	96%

Method:Modified SW-846 Method 8270

Run ID: IJ28PA — **Matrix: Soil**

Parameter	units	DL	Measured
Acenaphthene	ug/g	0.0033	nd
Acenaphthylene	ug/g	0.0033	nd
Anthracene	ug/g	0.0033	nd
Benzo[a]anthracene	ug/g	0.0033	nd
Benzo[a]pyrene	ug/g	0.0033	nd
Benzo[b+k]fluoranthene	ug/g	0.0066	nd
Benzo[ghi]perylene	ug/g	0.0033	nd
Biphenyl	ug/g	0.0033	nd
Chrysene	ug/g	0.0033	nd
Dibenzo[a,h]anthracene	ug/g	0.0033	nd
Fluoranthene	ug/g	0.0033	nd
Fluorene	ug/g	0.0033	nd
Indeno[1,2,3-cd]pyrene	ug/g	0.0033	nd
1-Methylnaphthalene	ug/g	0.0033	nd
2-Methylnaphthalene	ug/g	0.0033	nd
Naphthalene	ug/g	0.0033	nd
Phenanthrene	ug/g	0.0033	nd
Pyrene	ug/g	0.0033	nd
2-Fluorobiphenyl	Surrogate	n/a	83%
p-Terphenyl d-14	Surrogate	n/a	107%
Acenaphthene	ug/g	0.0033	nd
Acenaphthylene	ug/g	0.0033	nd
Anthracene	ug/g	0.0033	nd
Benzo[a]anthracene	ug/g	0.0033	nd

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Run ID IJ28PA Continued...	units	DL	Measured
Benzo[a]pyrene	ug/g	0.0033	nd
Benzo[b+k]fluoranthene	ug/g	0.0066	nd
Benzo[ghi]perylene	ug/g	0.0033	nd
Biphenyl	ug/g	0.0033	nd
Chrysene	ug/g	0.0033	nd
Dibenzo[a,h]anthracene	ug/g	0.0033	nd
Fluoranthene	ug/g	0.0033	nd
Fluorene	ug/g	0.0033	nd
Indeno[1,2,3-cd]pyrene	ug/g	0.0033	nd
1-Methylnaphthalene	ug/g	0.0033	nd
2-Methylnaphthalene	ug/g	0.0033	nd
Naphthalene	ug/g	0.0033	nd
Phenanthrene	ug/g	0.0033	nd
Pyrene	ug/g	0.0033	nd
2-Fluorobiphenyl	Surrogate	n/a	60%
p-Terphenyl d-14	Surrogate	n/a	78%

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Note - The following portion of this report includes Reference Standard data relating to all of the samples included in the Certificate of Analysis.
- More that one Reference Standard for a parameter usually indicates that the samples were analyzed under more that one QC group. The Run ID can be used to relate a Reference Standard to particular samples.

Method SW-846 8015/3500A (GC-FID)
Run ID: A0000249 **Matrix: Soil**

Parameter	Expected	LLA	ULA	Recovery
Petroleum Hydrocarbons (gasoline)	100 ug/g	49%	141%	**100%**
Petroleum Hydrocarbons (diesel)	300 ug/g	49%	141%	**111%**

Method SW-846 Method 8260/3550
Run ID: IJ26BB **Matrix: Soil**

Parameter	Expected	LLA	ULA	Recovery
Benzene	2.5 ug/g	50%	150%	**99%**
Ethylbenzene	2.5 ug/g	37%	162%	**104%**
Toluene	2.5 ug/g	50%	150%	**104%**
m/p-Xylene	5.0 ug/g	50%	150%	**103%**
o-Xylene	2.5 ug/g	70%	130%	**102%**
Toluene-D8	Surrogate	50%	150%	**100%**

Method Modified SW-846 Method 8270
Run ID: IJ28PA **Matrix: Soil**

Parameter	Expected	LLA	ULA	Recovery
Acenaphthene	0.33 ug/g	47%	145%	**106%**
Acenaphthylene	0.33 ug/g	33%	145%	**90%**
Anthracene	0.33 ug/g	27%	133%	**102%**
Benzo[a]anthracene	0.33 ug/g	33%	143%	**88%**
Benzo[a]pyrene	0.33 ug/g	17%	163%	**109%**
Benzo[b+k]fluoranthene	0.67 ug/g	11%	162%	**85%**
Benzo[ghi]perylene	0.33 ug/g	1%	219%	**32%**
Biphenyl	0.33 ug/g	35%	114%	**96%**
Chrysene	0.33 ug/g	17%	168%	**86%**
Dibenzo[a,h]anthracene	0.33 ug/g	1%	227%	**24%**
Fluoranthene	0.33 ug/g	26%	137%	**109%**
Fluorene	0.33 ug/g	59%	121%	**80%**
Indeno[1,2,3-cd]pyrene	0.33 ug/g	1%	171%	**28%**
1-Methylnaphthalene	0.33 ug/g	35%	114%	**91%**
2-Methylnaphthalene	0.33 ug/g	35%	114%	**84%**
Naphthalene	0.33 ug/g	21%	133%	**94%**
Phenanthrene	0.33 ug/g	54%	120%	**125%**
Pyrene	0.33 ug/g	52%	115%	**111%**
2-Fluorobiphenyl	Surrogate	43%	116%	**101%**
p-Terphenyl d-14	Surrogate	33%	141%	**166%**

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Paracel Laboratories Ltd.

Date: **10/06/97**

QA/QC Report - MATRIX DUPLICATE

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. The Run ID can be used to relate a Matrix Duplicate to particular samples.

Method: SW-846 8015/3500A (GC-FID)
Run ID: A0000249 **Matrix: Soil**

Parameter	units	Detection Limit	Reported Value	Duplicate Value
Petroleum Hydrocarbons (gasoline)	ug/g	10	nd	nd
Petroleum Hydrocarbons (diesel)	ug/g	10	nd	nd

Method: SW-846 Method 8260/3550
Run ID: IJ26BB **Matrix: Soil**

Parameter	units	Detection Limit	Reported Value	Duplicate Value
Benzene	ug/g	0.038	nd	nd
Ethylbenzene	ug/g	0.038	nd	nd
Toluene	ug/g	0.038	nd	nd
m/p-Xylene	ug/g	0.038	nd	nd
o-Xylene	ug/g	0.038	nd	nd
Toluene-D8	Surrogate		101%	102%

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Note - The following portion of this report includes Matirx Spike data relating to all of the samples included in the Certificate of Analysis.
- More that one Matrix Spike for a parameter usually indicates that the samples were analyzed under more that one QC group. The Run ID can be used to relate a Matrix Spike to particular samples.

Method: SW-846 8015/3500A (GC-FID)
Run ID: A0000249 **Matrix: Soil**

Parameter	Expected	Measured	LLA	ULA	Meas./Expt.
Petroleum Hydrocarbons (gasoline)	50 ug/g	66	49	141	**131%**
Petroleum Hydrocarbons (diesel)	150 ug/g	200	49	141	**131%**

Method: SW-846 Method 8260/3550
Run ID: IJ26BB **Matrix: Soil**

Parameter	Expected	Measured	LLA	ULA	Meas./Expt.
Benzene	3.8 ug/g	3.3	50	150	**87%**
Ethylbenzene	3.8 ug/g	3.4	37	162	**91%**
Toluene	3.8 ug/g	3.5	50	150	**93%**
m/p-Xylene	7.5 ug/g	7.1	50	150	**94%**
o-Xylene	3.8 ug/g	3.6	70	130	**96%**
Toluene-D8	Surrogate		50%	150%	**105%**

300-2319 St. Laurent Blvd., Ottawa, ON K1G 4K6 Voice (613) 731-9577 Fax: (613) 731-9064 Email: paracel@inasec.ca

Glossary of Terms

DL	The laboratory Detection Limit. The value is based on instrument response and is the lowest level that can be quantitated with confidence
PQL	The Practical Quantitation Limit for the sample. It is the lowest level at which the parameter could be quantitated in this sample. Elevated practical quantitation limits may be due to high analyte concentration, matrix interferences, available sample volume, or other factors.
nd	Not detected or found below the detection limit.
n/a	Not applicable to this particular analysis.
Surrogate Data	Surrogates are 'not naturally occuring' 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.
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. SAMPLE - Results from the analysis of the unfortified sample. SPIKE- 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.

300-2319 St. Laurent Blvd., Ottawa, ON K1G 4K6 Voice: (613) 731-9577 Fax: (613) 731-9577 Email: paracel@inasec.ca

PARACEL LABORATORIES LTD.
2319 St. Laurent Blvd., Unit 100, Ottawa, ON, Canada K1G 4K6
Tel: (613) 731-9577
Fax: (613) 731-9064

№ P 2820

CHAIN OF CUSTODY REPORT

CLIENT INFORMATION

CONTACT: Austin Sweezey DATE:

COMPANY: Interra DATE SAMPLED:

ADDRESS:

CITY: PROVINCE: POSTAL CODE:

PHONE NUMBER: 232-2525 FAX: 232-7149

P.O. NUMBER: 97-237 PROJECT: 97-237 REFERENCE:

SAMPLE INFORMATION — ANALYSIS REQUIRED

	Paracel W.O. Number: W1475 SAMPLE IDENTIFICATION	NOC	MATRIX	TAT	BTEX	TPH	Metals	PAH										
1	BH-14 0.5-2.5'	1	S	S	✓	✓		✓										
2	BH-15 3.0-5.0'	1	S		✓	✓												
3	BH-19 0-2'	1	S				✓											
4	BH-21 0.5-2.5'	1	S		✓	✓		✓										
5	BH-22 0.5-2.5	1	S				✓											
6	BH-23 0.5-2.5	1	S				✓											
7	BH-25 0.5-2.5	1	S		✓	✓												
8	BH-30 0.5-2.5	1	S				✓											
9	BH-12 0.5-2.5	1	S					✓										
10	BH-4 0.5-2.5	1	S				✓											
	Preservation done in field (Y/N):																	
	Preservative to be added by Paracel (Y/N):																	

LEGEND

NOC: Number of containers

MATRIX: A = Air, S = Soil, W = Water, O = Other

TAT: Turn-around time
R = Rush (100% surcharge)
A = Accelerated (50% surcharge)
S = Standard turn-around time

Comments:

Relinquished by: Date: 26 SEPT 97 Time: 17:05

Received by: Date: 26 SEPT 97 Time:

APPENDIX C

Regulatory Information and Correspondence

CHAIN OF TITLE REPORT

Project #	20161031160	Searched at:	Ottawa	
Address:	289 Carling Avenue, Ottawa	LRO #:	4	Page 1
Legal Description:	Part Lots 8, 9 & 11, Lot 10, Plan 31326 N Carling Ave & E Bell St Part 1, 5R4231			
PIN#	04104-0234(LT)			

INSTR #	DOC. TYPE	REG. DATE	PARTY FROM	PARTY TO
	Patent	25 02 1809	Crown	Robert RANDELL
10	Sheriff's Deed	20 12 1820	Sheriff Stewart	John LeBRETON
11	Deed	20 12 1820	John LeBreton	Levius P. SHERWOOD
6778	Deed	26 10 1853	Levius P. Sherwood - Estate	Hon. George SHERWOOD
27876	Deed	28 01 1868	Hon. George Sherwood	Emily SHERWOOD
297	Deed	05 08 1891	Emily Sherwood - Estate	Ethel SHERWOOD & Arhur SHERWOOD
7550	Deed	29 05 1900	Ethel Sherwood & Arthur Sherwood	Henry SHERWOOD
9546	Deed	14 12 1900	Henry Sherwood	Hilda SHERWOOD
9544	Deed	14 12 1900	Hilda Sherwood	Federal District Commission

Cont'd on Page 2

CHAIN OF TITLE REPORT

Project #	20161031160	Searched at:	Ottawa	
Address:	289 Carling Avenue, Ottawa	LRO #:	4	Page 2
Legal Description:	Part Lots 8, 9 & 11, Lot 10, Plan 31326 N Carling Ave & E Bell St Part 1, 5R4231			
PIN#	04104-0235 (LT)			

INSTR #	DOC. TYPE	REG. DATE	PARTY FROM	PARTY TO
CR607523	Deed	16 03 1972	National Capital Commission	Her Majesty The Queen In Right of Canada Represented By The Minister of Public Works
OC1571819	Deed **(Present Owner)**	11 04 2014	Her Majesty The Queen In Right of Canada Represented By The Minister of Public Works	**Canada Lands Company CLC Limited**

* CERTIFIED IN ACCORDANCE WITH THE LAND TITLES ACT * SUBJECT TO RESERVATIONS IN CROWN GRANT *

PROPERTY DESCRIPTION: PT LTS 8 & 9 & LT 10 & PT LT 11, PL 31326 , N CARLING AV & E BELL ST, PT 1, 5R4231 ; OTTAWA/NEPEAN

PROPERTY REMARKS:

ESTATE/QUALIFIER:
FEE SIMPLE
LT CONVERSION QUALIFIED

RECENTLY:
FIRST CONVERSION FROM BOOK 591

PIN CREATION DATE:
1996/06/24

OWNERS' NAMES
CANADA LANDS COMPANY CLC LIMITED

CAPACITY SHARE

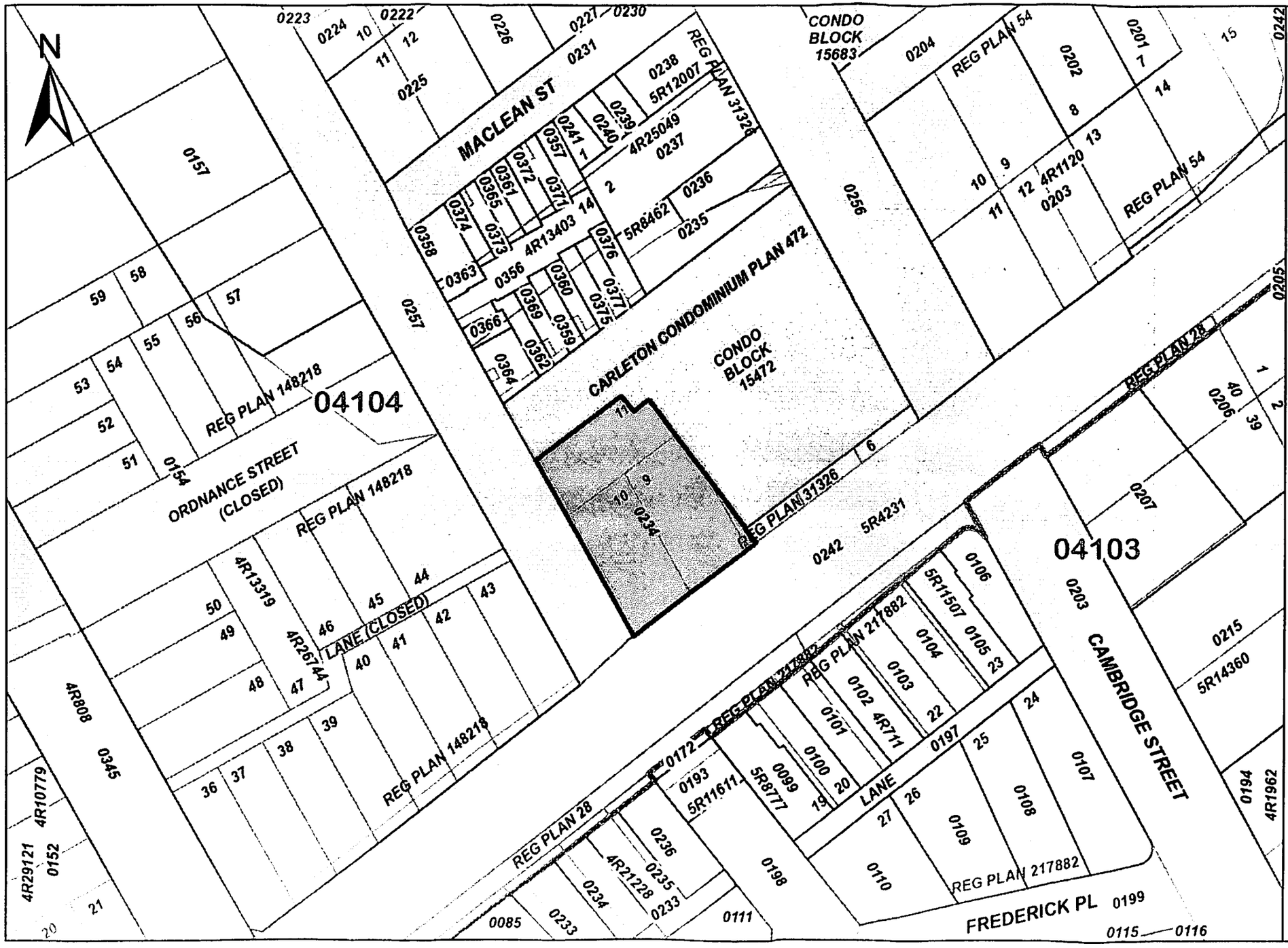
REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
EFFECTIVE 2000/07/29 THE NOTATION OF THE "BLOCK IMPLEMENTATION DATE" OF 1996/06/24 ON THIS PIN						
WAS REPLACED WITH THE "PIN CREATION DATE" OF 1996/06/24						
** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE: 1996/06/21 **						
**SUBJECT, ON FIRST REGISTRATION UNDER THE LAND TITLES ACT, TO:						
** SUBSECTION 44(1) OF THE LAND TITLES ACT, EXCEPT PARAGRAPH 11, PARAGRAPH 14, PROVINCIAL SUCCESSION DUTIES *						
** AND ESCHEATS OR FORFEITURE TO THE CROWN.						
** THE RIGHTS OF ANY PERSON WHO WOULD, BUT FOR THE LAND TITLES ACT, BE ENTITLED TO THE LAND OR ANY PART OF						
** IT THROUGH LENGTH OF ADVERSE POSSESSION, PRESCRIPTION, MISDESCRIPTION OR BOUNDARIES SETTLED BY						
** CONVENTION.						
** ANY LEASE TO WHICH THE SUBSECTION 70(2) OF THE REGISTRY ACT APPLIES.						
**DATE OF CONVERSION TO LAND TITLES: 1996/06/24 **						
CR607523	1972/03/16	TRANSFER		*** DELETED AGAINST THIS PROPERTY ***	HER MAJESTY THE QUEEN IN RIGHT OF CANADA REPRESENTED BY THE MINISTER OF PUBLIC WORKS	
REMARKS: SKETCH ATTACHED						
5R4231	1979/04/20	PLAN REFERENCE				C
LT1326433	2000/10/04	CERT PENDING LIT		*** COMPLETELY DELETED *** 1384274 ONTARIO INC.	HER MAJESTY THE QUEEN IN RIGHT OF CANADA	
LT1329897	2000/10/19	APL COURT ORDER		*** COMPLETELY DELETED *** SUPERIOR COURT OF JUSTICE	1384274 ONTARIO INC.	
REMARKS: DELETING LT1326433						

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

* CERTIFIED IN ACCORDANCE WITH THE LAND TITLES ACT * SUBJECT TO RESERVATIONS IN CROWN GRANT *

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
OC1116252	2010/06/04	LR'S ORDER		LAND REGISTRAR, LRO NO. 4		C
	REMARKS: AMENDING OWNERS FIELD.					
OC1571819	2014/04/11	TRANSFER	$2,000,000	HER MAJESTY THE QUEEN IN RIGHT OF CANADA	CANADA LANDS COMPANY CLC LIMITED	C

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



289_CARLING_AVENUE

HLUI_ID	Name	Street Number	Street Name	Comments	Waste Generator #	Type of Facility	Storage Tanks	References	Pin Certainty	PIN
1969	BULGARI GRANITE & MARBLE	782	BRONSON			Interior and Finishing Work		2005 Select Phone	1	04103-0125
2339	BP SERVICE STATION	748	BRONSON			Gasoline Service Stations		M.1960, M.1970, M.1980	2	04104-0203
2742	CAMBRIDGE LAUNDRY LIMITED	475	CAMBRIDGE	1950 - Computing Devices Canada Ltd.		Laundries and Cleaners		M.1900, M.1910, M.1920, M.1930, M.1940, M.1950	1	04104-0127
2763	CANADIAN PRESS STEEL WORKS	788	BRONSON			Fabricated Structural Metal Products Industries		M.1900, M.1910, M.1920, M.1930, M.1940, M.1950	1	04103-0209
3068	CARLING GARAGE	765	CARLING	Culligan Soft Water Co. in 1950 Storage tanks are parallel to Carling Ave. and one is parallel to Booth		Motor Vehicle Repair Shops	3 UST, gasoline FIP1948, FIP1956	M.1900, M.1910, M.1920, M.1930, M.1940, M.1949, M.1950, M.1956; FIP1901-126-752,Vol2; FIP1912-126-752,Vol2; FIP1922-126-752,Vol2; FIP1948-119-752; FIP1956-119-4-752	1	04104-0152
3069	CARLING GARAGE & JOS. A. DIOTTE AUTO	0	CARLING	FIP1912, FIP1922 - vacant lot FIP1956 - USTs still there but blank building - to be demolished; 773-783		Motor Vehicle Repair Shops	2 UST	M.1900, M.1910, M.1920, M.1930, M.1940, M. 1949, M.1950; FIP1901-126-759,vol2; FIP1912-125-759,vol2; FIP1922-125-759A,vol2; FIP1948-119-759A; FIP1956-119-3-759A	1	04104-0150
3598	CLARENCE E LANGLEY - CLEANERS	0	BRONSON	786-788		Laundries and Cleaners		M.1900, M.1910, M.1920, M.1930, M.1940, M.1948, M.1950, M.1955; FIP1901-87-773,Vol2; FIP1912,Vol2; FIP1922-126-773,Vol2; FIP1948-134-773; FIP1956-134-4-773,Vol1	1	04103-0208
4109	D & M FIXTURES INC.	321	LEBRETON			Sash, Door and Other Millwork Industries		SC98; 2001 Employment Survey	1	04104-0184
4341	DAVID SMITH CENTRE	786	BRONSON			Hospitals		2001 Employment Survey	1	04103-0208
4380	NATIONAL DEFENSE	615	BOOTH	MAPPING & CHARTING ESTABLISHMENT	ON2487206	Defence Services		2000 PID	1	04104-0152
4535	ENGLISH MOTORS	316	BELL			Motor Vehicles, Wholesale		2005 Select Phone	1	04104-0195
4586	ERIC AND OSCAR'S AUTO	316	BELL			Motor Vehicle Repair Shops	Two USTs	M.1900, M.1910, M.1920, M.1930, M.1940, M.1948, M.1950, M.1955, M.1960, M.1970, M.1980; SC98; FIP1901-112A-746,Vol2; FIP1912-127-746B,Vol2; FIP1922-127-746B,Vol2; FIP1948-119-746B; FIP1956-119-2-746B; 2005 Property Assessment	1	04104-0195
5075	ECHAFAUDAGES-FAST (OTTAWA) INC.	385	BELL			Service Industries Incidental to Air Transport should list as Building Development, Construction or similar		2001 Employment Survey	1	04104-0225
5211	EMILIO LINDIA ENTERPRISES LIMITED	770	BRONSON			Gasoline Service Stations	3 USTs in north corner of property	M.1900, M.1910, M.1920, M.1930, M.1940, M.1948, M.1950, M.1955, M.1960, M.1970, M.1980; SC98; FIP1901-87-773,Vol2; FIP1912-126-773,vol2; FIP1922-126-773,Vol2; FIP1948-134-773; FIP1956-134-4-773; 2005 Property Assessment	1	04103-0205
5279	FEDERAL DISTRICT COMMISSION	291	CARLING			Motor Vehicles, Wholesale	FIP1956 - 1 UST, gasoline.	M.1920, M.1949, M.1956; FIP1901-112A-753,Vol2; FIP1912-126-753,Vol2; FIP1922-126-753,Vol2; FIP1948-119-753; FIP1956-119-4-753	1	04104-0154
5329	FED-PUBLIC WORKS	580	BOOTH			General Administrative Services		2005 Property Assessment	1	04104-0150
5499	FED-FISHERIES	615	BOOTH			General Administrative Services		2001 Employment Survey	1	04104-0152
5508	FED-NATURAL RESOURCES	601	BOOTH	GEOLOGICAL SURVEY OF CANADA	ON0269503	Protective Services		2000 PID	1	04104-0152
5531	G. A. CRAIN AND SONS LIMITED	555	CAMBRIDGE			Site Work		M.1948, M.1955; FIP1901-87-773,vol2; FIP1912-126-773,Vol2; FIP1922-126-773,Vol2; FIP1948-134-773; FIP1956-134-4-773,Vol1	1	04103-0215
5850	GEMINI PROJECTS	321	LEBRETON	321		Structural and Related Work		2005 Select Phone	1	04104-0184
5912	GLEBE COLLEGIATE INSTITUTE	212	GLEBE	GLEBE COLLEGIATE INSTITUTE	ON0375210	Elementary and Secondary Education		2000 PID	1	04136-0001

Prepared By: *S. Petrovic*
City of Ottawa
Environmental Remediation Unit
2016-11-25

HLUI_ID	Name	Street Number	Street Name	Comments	Waste Generator #	Type of Facility	Storage Tanks	References	Pin Certainty	PIN
6144	GOODEX EQUIPMENT RENTAL LIMITED	515	CAMBRIDGE		ON4691226	Service Industries Incidental to Air Transport should list as General Contracting, Construction, Development or similar		2003 PID	1	04104-0414
6320	MAPPING A(SEE & USE ON2487206)MENT	615	BOOTH		ON1932200	Combined Publishing and Printing Industries		M.1960, M.1970, M.1980; PID1994; 2000 PID	1	04104-0152
6487	J. R BOOTH'S LUMBER YARD	0	BOOTH	In 1930 Company was located after Plymouth and CPR tracks, before # 619 Booth. In 1920 it was after Plymouth but before the CPR tracks and #619 Booth		Lumber and Building Materials, Wholesale		M.1900, M.1910, M.1920, M.1930, M.1940, M.1949, M.1950, M.1956; FIP1901-126-752,Vol2; FIP1912-126-752,Vol2; FIP1922-126-752,Vol2; FIP1948-119-752,Vol2; FIP1956-119-4-752	2	04104-0152
6488	J. R. BOOTH	0	CARLING	The property ran along Dow's Lake and the Rideau Canal, and it ran west to the Experimental Farm.		Lumber and Building Materials, Wholesale		M.1900, M.1910, M.1920, M.1930, M.1940, M.1950, Memories of Hartwell's Lockstation	2	04087-0054
6490	J. R. BOOTH -LUMBER YARD	291	CARLING			Lumber and Building Materials, Wholesale		M.1920, M.1949, M.1956; FIP1901-112A-753,Vol2; FIP1912-126-753,vol2; FIP1922-126-753,Vol2; FIP1948-119-753; FIP1956-119-4-753	1	04104-0154
7166	J.R. BOOTH	0	BRONSON	Wallace St. is now closed. Locate J.R. Booth near Kippewa St.		Lumber and Building Materials, Wholesale		M.1900, M.1910, M.1920, M.1930, M.1940, M.1950	2	04103-0139
7184	J.R. BOOTH -QUARRY	374	BELL	Quarry fills the whole block between Lebreton and Bell as well as half a block between Carling and Henry.		Stone Quarries		FIP1901-112A-753,Vol2; FIP1912-127-753,Vol2; FIP1912-126-753,Vol2; FIP1922-126-753,Vol2; FIP1922-112-753,Vol2; FIP1948-119-753; FIP1956-119-4-753, M.1920, M.1921, M.1922, M.1923, M.1949, M.1956	2	04104-0154
7383	JOHN NIXON	0	CARLING	1950 - Carling Garage @ #783 1940 - Gordon's Garage @ #783		Hardware, Paint, Glass and Wallpaper Stores (paint storage)		M.1900, M.1910, M.1920, M.1930, M.1940, M.1950	1	04104-0150
7809	SHAW LABORATORIES LIMITED	794	BRONSON			Other Manufactured Products Industries		M.1960, M.1970, M.1980; SC98	1	04103-0210
7908	KNR LABORATORIES LIMITED	794	BRONSON			Medical and Other Health Laboratories		2001 Employment Survey	1	04103-0211
7961	KORNELL'S TOWING SERVICE	477	CAMBRIDGE			Motor Vehicles, Wholesale		M.1960, M.1970, M.1980	1	04104-0128
8289	MACDONNELL AND CONYERS LIMITED	790	CAMBRIDGE	This property is at the corner of Cambridge ans Kippewa Drive. It surrounds the property on #581 & 585 Cambridge. The majority of the property is on Cambridge but the northern half extends across to Bronson.		Sawmill, Planing Mill and Shingle Mill Products Industries		M.1921, M.1948, M.1955; FIP1901-87-773,Vol2; FIP1912-126-773,Vol2; FIP1922-126-773,Vol2; FIP1948-134-773; FIP1956-134-4-773	2	04103-0194
8340	LGS STEELHOUSE CANADA INC.	265	CARLING	#700		Residential Building and Development		2005 Select Phone	1	04104-0203
9468	OLD MARSH ENTERPRISES LIMITED	463	CAMBRIDGE			Laundries and Cleaners should list as Property Management, Services to Buildings and Dwellings or similar		2001 Employment Survey	1	04104-0125
9842	NORLAND SCIENCE AND ENGINEERING	265	CARLING			Other Transportation Equipment Industries		2001 Employment Survey	1	04104-0203
9978	OTTAWA SUBURBAN ROADS COMMISSION	279	CARLING			General Administrative Services		M.1948, M.1955; FIP1901-112A-766, vol2; FIP1912-126-766,Vol2; FIP1922-126-766; FIP1948-134-766; FIP1956-134-4-766,Vol1	1	15472-0000
10217	OTTAWA-CARLETON DISTRICT SCHOOL BOARD	515	CAMBRIDGE	BORDEN HIGH SCHOOL	ON0375202	Elementary and Secondary Education		2000 PID	1	04104-0414

Prepared By: *S. Petrovic*
City of Ottawa
Environmental Remediation Unit
2016-11-25

HLUI_ID	Name	Street Number	Street Name	Comments	Waste Generator #	Type of Facility	Storage Tanks	References	Pin Certainty	PIN
10325	PHELPS CONSTRUCTION CO. LIMITED	12	PAMILLA			Industrial Construction (Other Than Buildings)		M.1900, M.1910, M.1920, M.1930, M.1940, M.1950	1	04104-0150
10431	OTTASTERED FURNITURE MANUFACTURE CO.	776	BRONSON			Household Furniture Industries		M.1900, M.1910, M.1920, M.1930, M.1940, M.1950	1	04103-0125
10527	PHOTO FINISHERS REGISTERED	784	BRONSON			Platemaking, Typesetting and Bindery Industry		M.1900, M.1910, M.1920, M.1930, M.1940, M.1950	1	04103-0125
10605	OTTAWA HYDRO ELECTRIC SUB STATION NO. 1	247	GLEBE		ON0456605	Electric Power Systems Industry		M.1900, M.1910, M.1920, M.1930, M.1940, M.1948, M.1950, M.1955, M.1960, M.1970, M.1980; FIP1901,Vol2; FIP1912,Vol2; FIP1922,Vol2; FIP1948-134-781; FIP1956-134-4-781,Vol1; PID1994; 2000 PID	1	04135-0158
10609	OTTAWA PUBLIC SCHOOL BOARD GARAGE	0	BELL	352 to 360		Motor Vehicles, Wholesale		M.1920, M.1949, M.1956, M.1960, M.1970, M.1980; FIP1901-112A-753,Vol2; FIP1912-127-753,Vol2; FIP1948-119-753; FIP1956-119-4-753	1	04104-0157
10702	PUBLIC WORKS AND GOVERNMENT SERVICES CANADA	601	BOOTH	La Promenade	ON0144787	Services to Buildings and Dwellings		2003 PID	1	04104-0152
12136	ROBERT CARE SERVICE STATION	745	CARLING	Storage Tanks run at right angles to Carling ave		Gasoline Service Stations	3 UST, gasoline FIP1948, FIP1956	M.1900, M.1910, M.1920, M.1930, M.1940, M.1949, M.1950, M.1956; FIP1901-126-752,Vol2; FIP1912-126-752,Vol2; FIP1922-126-752,Vol2; FIP1948-119-752; FIP1956-119-4-752	1	04104-0152
12492	STANDARD BRANDS LIMITED	551	CAMBRIDGE			Other Food Products Industries		M.1960, M.1970, M.1980	1	04103-0215
12881	SHOSHIN SYSTEMS INC.	265	CARLING			Electrical and Electronic Machinery, Equipment and Supplies, Wholesale		2001 Employment Survey	1	04104-0203
13600	TESC CONTRACTING LIMITED	557	CAMBRIDGE			Plumbing, Heating and Air Conditioning, Mechanical Work		2005 Select Phone	1	04103-0215
13952	UNNAMED MACHINE SHOP	604	BOOTH	FIP1901, FIP1922 - vacant lot M. 1949 - lists contractor FIP1956 - to be demolished		Machine Shop Industry		M.1920; FIP1901-126-759,vol2; FIP1912-125-759,vol2; FIP1922-125-759,vol2; FIP1948-119-759; FIP1956-119-3-759	2	04104-0150
14060	UNCLE LORY'S VAC SHACK	686	BRONSON			Appliance, Television, Radio and Stereo Stores		2001 Employment Survey	1	04104-0137
14515	UNNAMED WASTE DISPOSAL SITE							Generic classification of former landfills in the Ottawa Area.		
14778	URANIUM CANADA LIMITED	580	BOOTH			Industrial Chemicals Industries n.e.c.		M.1960, M.1970, M.1980	1	04104-0150
14827	WINDSOR HOME CLEANING	555	CAMBRIDGE			Services to Buildings and Dwellings		2005 Select Phone	1	04103-0215
15049	Computing Devices Canada Ltd	475	CAMBRIDGE	Cambridge Laundry Ltd at this location in 1920.		Electronic Laboratory		M.1900, M.1910, M.1920, M.1930, M.1940, M.1950	2	04104-0127
15082	Department of Energy, Mines & Resources	300	LEBRETON			Government Department		M.1960, M.1970, M.1980	1	04104-0152

Former Landfills

HLUI_ID	Name	Site Identification	Operational Period
6130	Commissioner Park (Carling Ave)	Ur-21	Before 1924 (earliest Aeriual photographs available sho no landfilling activity

Privately Owned Former Landfill Site - City of Ottawa has no information regarding current environmental conditions

Underlined Text Text has been added, not included in HLUI

Possible Errors identified in MAP, to be confirmed by City of Ottawa's Policy Development & Urban Design Branch

Prepared By: *S. Petrovic*
City of Ottawa
Environmental Remediation Unit
2016-11-25

Ministry of the Environment and Climate Change

Freedom of Information and Protection of Privacy Office

12th Floor
40 St. Clair Avenue West
Toronto ON M4V 1M2
Tel: (416) 314-4075
Fax: (416) 314-4285

Ministère de l'Environnement et de l'Action en matière de changement climatique

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

12e étage
40, avenue St. Clair ouest
Toronto ON M4V 1M2
Tél. : (416) 314-4075
Téléc.: (416) 314-4285

Ontario

November 25, 2016

Salim Eid
DST Consulting Engineers Inc.
2150 Thurston Drive, Suite 203
Ottawa, ON K1G 5T9

RECEIVED
NOV 30 2016

Dear Salim Eid:

RE: ***Freedom of Information and Protection of Privacy Act* Request**
Our File # A-2016-07157, Your Reference GV-SO-027667

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 289 Carling Ave, Ottawa.

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

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

If you have any questions regarding this matter, please contact Kaitlynne Low at kaitlynne.low@ontario.ca.

Yours truly,

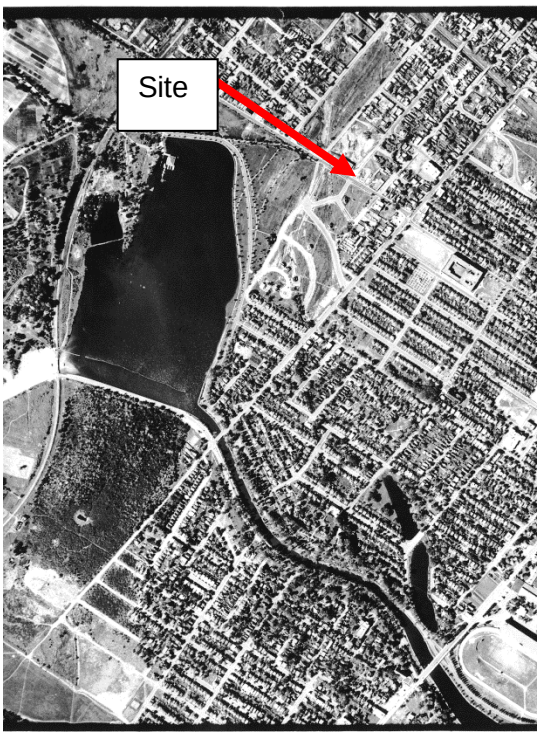
for

Tracey Goodwin
FOI Manager (A)

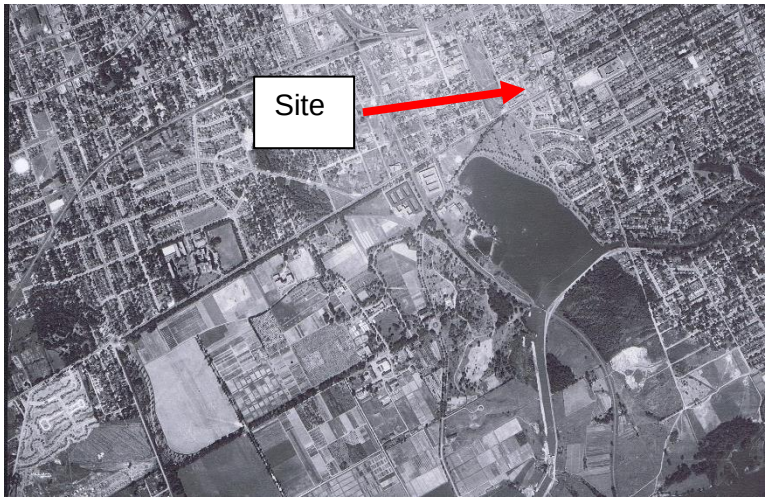
APPENDIX C

Aerial Photographs

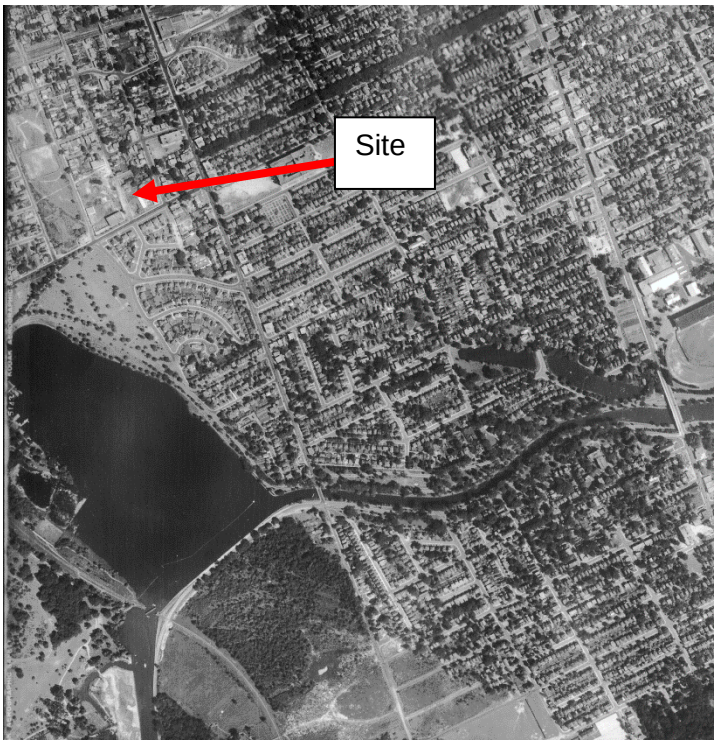
geoOttawa Aerial - 1928



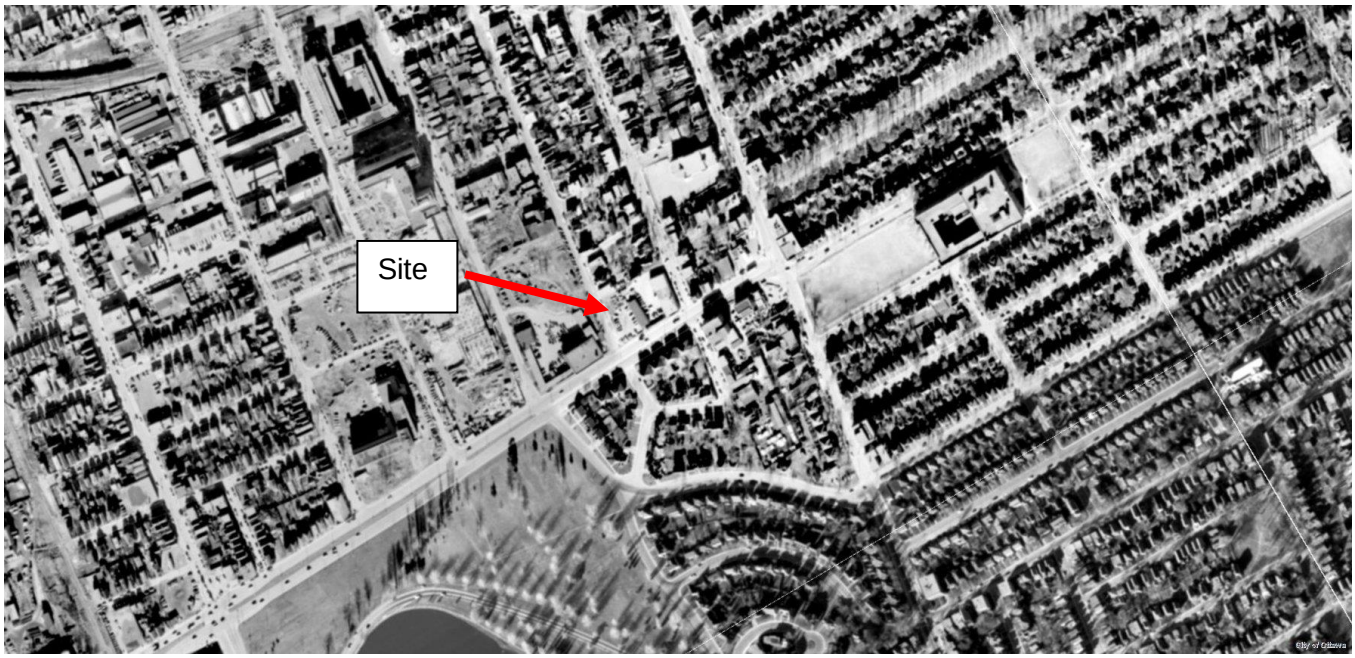
National Air Photo - 1938



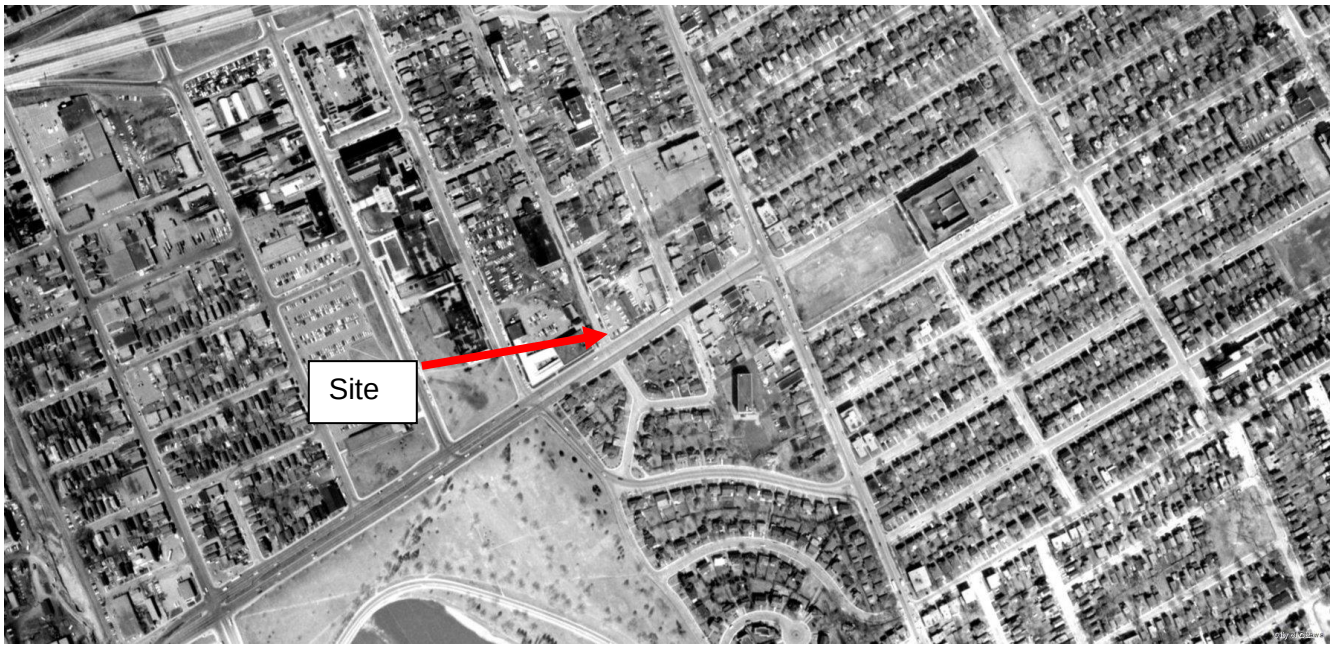
National Air Photo - 1946



National Air Photo - 1950

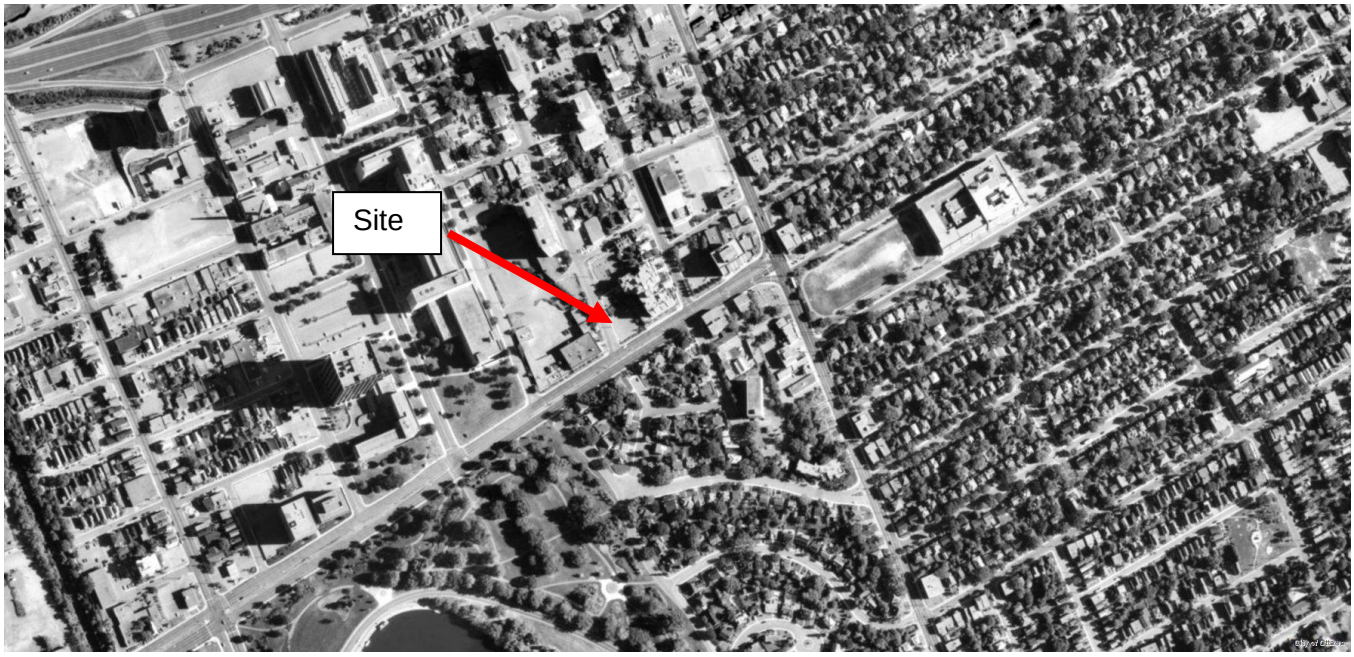


geoOttawa Aerial - 1958



geoOttawa Aerial - 1965

GeoOttawa Aerial - 1976



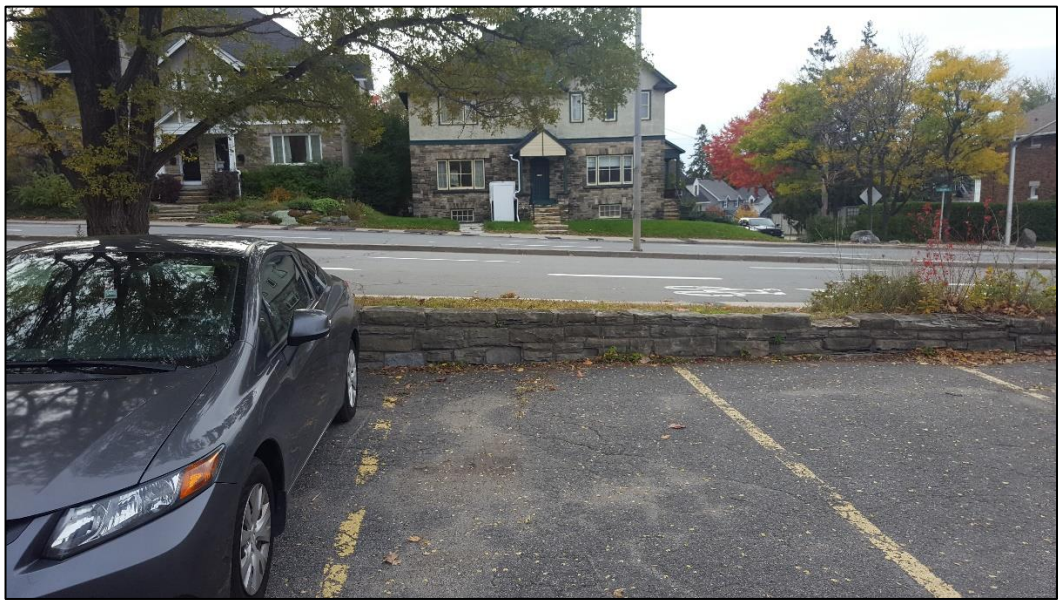
geoOttawa Aerial - 1991

geoOttawa Aerial - 2011

geoOttawa Aerial - 2014

APPENDIX E

Site Photographs

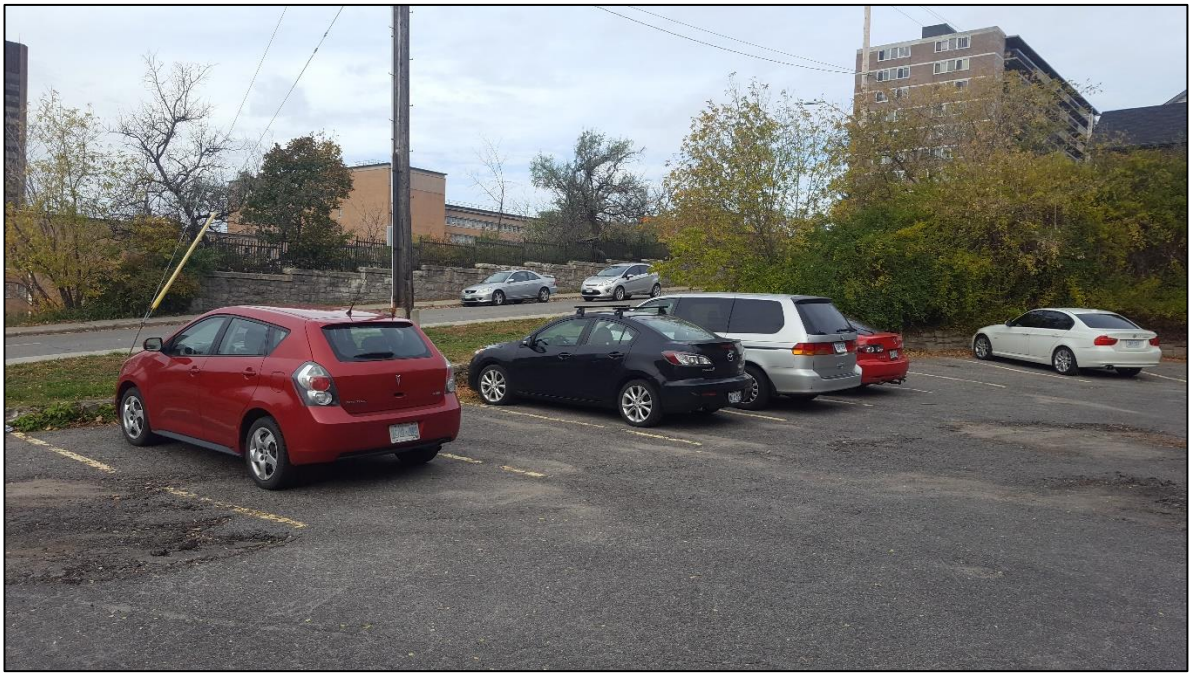


Photograph 1: View of south side of Site, facing south (October 27, 2016)

Photograph 2: View of Carling Avenue from south side of Site, facing southeast (October 27, 2016)

Photograph 3: View of adjacent properties to the south, facing southwest (October 27, 2016)

Photograph 4: View of Site entrance and west adjacent property, facing west (October 27, 2016)



Photograph 5: View of Site looking northwest towards Bell Street (October 27, 2016)

Photograph 6: View of north side of Site (October 27, 2016)

Photograph 7: View of northeast corner of Site (October 27, 2016)

Photograph 8: View of adjacent property to the east, view northeast (October 27, 2016)

Photograph 9: Adjacent property to the east of Site (October 27, 2016)

Photograph 10: View of retaining wall at east property boundary (October 27, 2016)

Photograph 12: View of diesel generator locate on east adjacent property (October 27, 2016).

Photograph 13: Photo of worn and damaged asphalt (October 27, 2016).

Photograph 14: Photo of damaged asphalt near parking lot entrance (October 27, 2016).

APPENDIX F

Qualifications of Assessor(s)

Qualifications of Assessors

Ginger Rogers, P.Geo., is a Senior Project Manager and qualified professional with over 19 years of geological, environmental and project management experience. She has managed numerous large-scale, high budget, highly complex projects involving site conceptual modelling, geological mapping, hydrogeological assessments, environmental site assessments, contaminated site remediation, environmental liability assessments, environmental audits, facility decommissioning and risk assessment/management, for industrial and commercial clients as well as major petroleum operators, both downstream and upstream. She has been involved in various projects throughout Canada. She has managed teams of engineers, geoscientists and other professionals in environmental consulting industry.

Eric Domingue, P.Eng., M.A.Sc., is a geological engineer with 19 years of experience in environmental field studies including all Phases for ESA's, risk assessment field work, site remediation, specifications and tender documents, site supervision, audit management/remediation environmental compliance audits and mining consulting services. He participated in the creation of guidelines for providing safe drinking water in areas of federal jurisdiction on behalf of the Interdepartmental Working Group on Drinking Water Health Canada, and authored the Drinking Water Guidelines and Implementation Framework for Canadian Diplomatic Missions on behalf of Foreign Affairs Canada. He has been involved in various projects in Canada and abroad. He has managed teams of engineers and professionals in environmental, geotechnical, civil and structural engineering.

APPENDIX G

Limitations of Report

Limitations of Report

DST Consulting Engineers Inc. (DST) has prepared this report for the exclusive use of the City of Ottawa. The information, conclusions and recommendations given herein are specific for this project and the City of Ottawa only, for the scope of work described herein. DST will not be responsible for the use of this report by any third party, or reliance on or any decision to be made based on it without the prior written consent of DST. DST accepts no responsibility for damages, if any, suffered by any third party as a result of decisions or actions based on this report.

This report presents an overview of issues of potential environmental concern, reflecting DST's best judgment using information reasonably available at the time of DST's Site reconnaissance. The assessment was partly based on information from various sources of which the accuracy has not been verified, and because observations made during the Site reconnaissance may have been limited by existing conditions, this report does not guarantee that the subject property is free of hazardous or potentially hazardous material or conditions, or that latent or undiscovered conditions will not become evident in the future. DST has prepared this report using information understood to be factual and correct and shall not be responsible for conditions arising from information or facts that were concealed or not fully disclosed to DST at the time of the Site reconnaissance and assessment.

The conclusions regarding environmental conditions, which are presented in this report, are based on a scope of work authorized by the City of Ottawa. Note, however, that virtually no scope of work, no matter how exhaustive, can identify all contaminants or all conditions above and below ground. This report therefore cannot warrant that all conditions on or off the subject property have been identified within this assessment.

Since onsite and surrounding activities are beyond DST's control, and can change at any time after the completion of this assessment, the observations, findings, and opinions can be considered valid only as of the date provided on this report.

Conclusions and recommendations contained in this assessment were developed in accordance with currently accepted engineering standards and practices. Standards, guidelines and practices related to environmental investigations may change over time. Those which were applied at the time of this investigation may be obsolete or unacceptable at a later date.