



July 2012

REPORT ON

Phase I Environmental Site Assessment Update Block 47 - Royal Ridge Subdivision Orleans, Ontario

Submitted to:

Jim Burghout
Claridge Homes
2001-210 Gladstone Avenue
Ottawa, ON
K2P 0Y6

REPORT



Report Number: 09-1121-0163 (6000)

Distribution:

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2 copies - Golder Associates Ltd.



July 19, 2012

Project No. 09-1121-0163 (6000)

Jim Burghout
Claridge Homes
2001-210 Gladstone Avenue
Ottawa, ON
K2P 0Y6

**PHASE I ENVIRONMENTAL SITE ASSESSMENT UPDATE, BLOCK 47 - ROYAL RIDGE SUBDIVISION,
ORLEANS, ONTARIO**

Dear Mr. Burghout:

Further to your request, Golder Associates Ltd. (Golder) is pleased to provide this Phase I Environmental Site Assessment (Phase I ESA) Update of Block 47 of the Royal Ridge Subdivision in Orleans, Ontario (Site).

Activities carried out in association with this Phase I ESA Update consisted of the following:

- a review of previous environmental reports associated with the Site (Golder, 2004a) and (Golder, 2004b);
- a Site visit in order to review issues of potential environmental concern identified in the previous environmental reports and to update the Site conditions since the last report in 2004;
- ordering and reviewing of the EcoLog ERIS report;
- regulatory requests for file information to the City of Ottawa, Ontario Ministry of Environment (MOE) and the Technical Standards & Safety Authority (TSSA); and,
- completion of this Phase I ESA Update report.

The purpose of the work was to provide an update of the Phase I ESA conducted previously at the Site. This report should be read in conjunction with the previous 2004 Phase I ESA report.

OVERVIEW OF SEPTEMBER 2004 PHASE I ESA

A Phase I ESA was conducted at 940 Old Montreal Road (former address of the property where the Royal Ridge subdivision is located) in September 2004 by Golder. The findings of the Phase I ESA were documented in a report entitled "Phase I Environmental Site Assessment, 940 Old Montreal Road (Formerly Queen Street), Ottawa, Ontario" prepared by Golder Associates for The Regional Group dated September 2004.

Two issues of environmental concern were identified in the report as follows:

- Historic vehicle fuelling and maintenance on the Site may have resulted in subsurface soil and groundwater impacts. In particular an area beneath a gasoline aboveground storage tank (AST) in a shed and a former vehicle service pit in a garage shed are of potential environmental concern; and,



- A site representative indicated that farm and domestic waste has historically been buried in the southern portion of the Site prior to municipal waste collection. The exact location, type and volume of the buried waste is unknown. If a significant volume of waste is present, there is the potential for subsurface soil and groundwater impacts to have occurred.

In order to assess the subsurface conditions on the Site and to investigate the potential impacts with the historic use of the Site for vehicle fuelling and repair and waste dump, Golder carried out a Phase II Environmental Site Assessment at the Site. It investigated potential soil impacts in the area of the gasoline AST, former vehicle service pit and the reported domestic and farm waste buried in the southern portion of the Site.

OVERVIEW OF NOVEMBER 2004 PHASE II ESA

As a result of the findings of the September 2004 Phase I ESA a Phase II ESA was proposed and completed in November 2004 by Golder. The findings of the Phase II ESA were documented in a report entitled "Phase II Environmental Site Assessment, 940 Old Montreal Road, Ottawa, Ontario" prepared by Golder Associates for The Regional Group dated November 2004.

The scope of the Phase II consisted of digging two (2) test pits using a backhoe - one near a former stove oil AST and one near a former vehicle service pit; two (2) hand dug test pits were excavated near a former gasoline AST; and one hand dug test pit was excavated near buried waste located in the southern portion of the Site. The soil samples recovered from the test pits and hand-dug pits were described and logged in the field, noting the geologic properties, anthropogenic materials, moisture, odour and visible evidence of petroleum hydrocarbons (if present). Samples were collected by hand and placed in sealed glass jars and submitted to a private laboratory for a suite of chemical analyses.

Three soil samples were submitted for laboratory analysis of petroleum hydrocarbons fraction 1 to fraction 4 (PHCs F1 to F4). In addition, soil samples from near the stove oil AST and the gasoline AST were analyzed for and benzene, toluene, ethylbenzene and xylenes (BTEX). The soil sample from near the gasoline AST was analyzed for lead, and the sample from the former vehicle service pit was analyzed for volatile organic carbons (VOCs) in addition to the aforementioned PHC analyses.

The results of the 2004 Phase II ESA completed at the Site by Golder suggest that soil at the Site had not been impacted above the applicable site criteria. Given the absence of soil impacts, no groundwater investigation was considered required.

In summary, the Phase II ESA did not find evidence of contamination of the subsurface soil related to the former gasoline AST, the former vehicle service pit or the buried waste at the Site.

APRIL 2012 REQUEST FOR RECORDS REVIEW

As part of this Phase I ESA Update, Golder submitted regulatory requests to the City of Ottawa, the Technical Standards and Safety Authority (TSSA) and the Ontario Ministry of Environment (MOE). The TSSA responded via e-mail on July 9, 2012 indicating that there were no records of underground storage tanks (USTs) on file for the Site but the following record for a nearby property was found in the search:

- 915 Watters Road, located approximately 225 m southwest of the Site, has a record of an active cylinder exchange facility.

At the time of preparation of this report, a formal response from the MOE and the City of Ottawa had not been received by Golder. When formal responses to Golder's request for information are received, they will be reviewed. If, in Golder's opinion, the responses detail any issues of potential environmental concern with respect to the Site, a copy will be forwarded to Claridge (with a brief discussion) so that it can be appended to this report.

REVIEW OF ECOLOG ERIS REPORT

Golder contracted the services of EcoLog Environmental Risk Information Services Ltd. (EcoLog ERIS) to conduct a search of their federal, provincial and private sector databases for information on the Site and surrounding area within 250 m of the Site. The complete EcoLog ERIS report, including a brief description of each of the databases searched for this Phase I ESA is included in Appendix C. The following is a summary of the findings as identified within the EcoLog ERIS report for the Site and for the surrounding properties within 250 m of the Site that are of potential environmental concern for the Site:

Records for the Site:

EcoLog ERIS completed a search for the Site address (940 Old Montreal Road) and no records were found within the databases selected.

Records for properties within 250 m of the Site:

In addition to searching for records at the Site address, EcoLog ERIS conducted a search of their databases for records within 250 m of the Site. The following summarizes the records found within 250 m of the Site:

- There are four (4) records of boreholes along Watters Road (approximately 180 m south of the Site) that were used for geotechnical/geological investigation purposes;
- Two (2) records for Certificates of Approval were found within 250 m of the Site and both records are for the address listed as Watters Road at Trim Road. One record is for municipal water and one for municipal sewage;
- An EcoLog ERIS standard report was ordered for a property located at Watters Road and Trim Road; and,
- Nine (9) records were found within 250 m of the Site in the water well information system. All nine records are for domestic water wells.

JULY 2012 SITE RECONNAISSANCE

The following observations and interview information was obtained during the Site visit conducted on July 11, 2012:

- Mr. Jim Burghout, Development Manager for Claridge Homes (herein known as the Site representative), escorted Mr. Brandon McParlan of Golder Associates through the Site on Wednesday July 11, 2012. The Site visit consisted of a walk-through of the Site as well as an interview regarding the past and present activities of the Site;
- The Site is currently a graded vacant lot located in the south section of the Royal Ridge subdivision. The Site is bordered by townhouses to the north and east of the Site, Antigonish Avenue to the south and the Trim Road right of way to the west. The Trim Road right of way is currently vacant land that will eventually be used to widen Trim Road. A berm of excess soil from previous development in the Royal Ridge subdivision separates the right of way from the Site;
- Some sparse low lying vegetation is growing on the west portion of the Site and a small pool of standing water is located in the north section of the Site;
- There are no buildings located on the Site;
- The Site representative reported that construction within the subdivision started approximately in late 2010 to early 2011 and that all fill material was taken from on-site;
- Adjacent off-site properties include the following:

- **North:** Townhouses along Cityview Crescent to the north;
- **East:** Townhouses along Antigonish Avenue to the east;
- **South:** Antigonish Avenue and a vacant lot across Antigonish Avenue to the south; and,
- **West:** A berm of excess soil and the Trim Road right of way to the west.

SUMMARY OF FINDINGS AND RECOMMENDATIONS

Based on the review of the previous Phase I and Phase II ESA conducted by Golder in 2004, the review of the response from the TSSA, the review of the EcoLog ERIS report and the Site visit conducted by Golder on July 11, 2012 there appears to be no issues of potential environmental concern for the Site.

STUDY LIMITATIONS

This report was prepared for the exclusive use of Claridge Homes. This report is based on data and information collected during the Phase I Environmental Site Assessment Update of the Site conducted by Golder Associates Ltd., and is based solely on Site conditions encountered at the time of the site visit on July 11, 2012.

In evaluating the Site, Golder Associates Ltd. has relied in good faith on information provided by others. We accept no responsibility for any deficiency, misstatements or inaccuracies contained in this report as a result of omission, misinterpretations or fraudulent acts of the persons interviewed. Golder Associates Ltd. accepts no responsibility for any reduction in property value, either real or perceived, as a result of the reporting of factual information herein.

It should be noted that the results of an investigation of this nature should in no way be construed as a warranty that the Site is free from any and all contamination from past or current practices. No sampling of soil, groundwater, air emissions, mould or gas was conducted.

If new information is discovered during future work, including excavations, borings or other studies, Golder Associates should be requested to re-evaluate the conclusions presented in this report and to provide amendments as required.

CLOSURE

We trust the above meets with your current requirements. Should you have any comments, questions, or require additional information, please do not hesitate to contact this office.

Yours truly,

GOLDER ASSOCIATES LTD.



Brandon McParlan, B.Sc.
Environmental Consultant

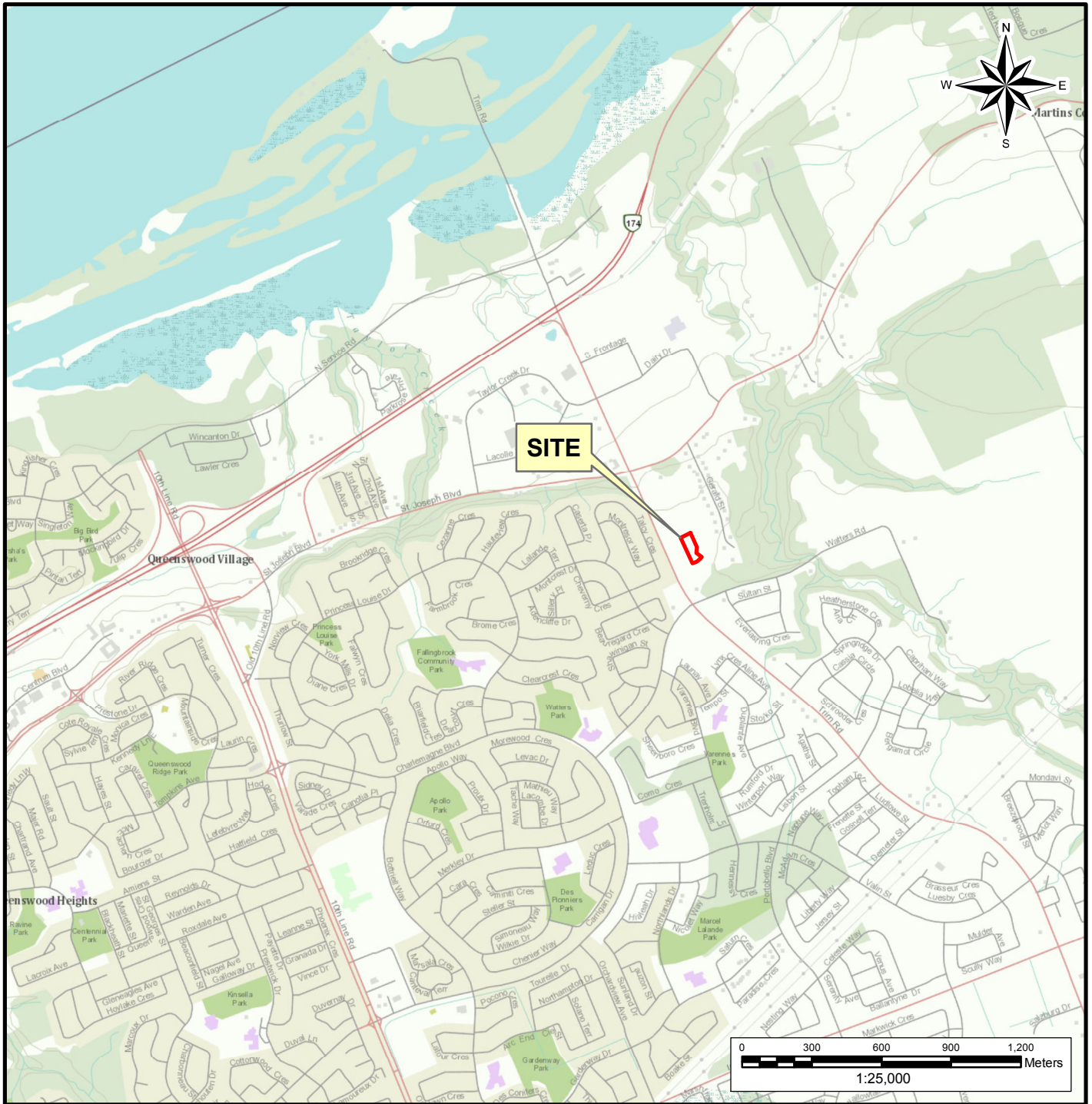


Don Plenderleith, M.Sc., P.Eng.
Principal

BCJM/DHP/hw

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Attachments: Figure 1 - Key Plan
Figure 2 - Site Plan
Appendix A - Site Photographs
Appendix B - Regulatory Requests
Appendix C - EcoLog ERIS Report



NOTE

THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT No. 09-1121-0163/6000

REFERENCE

BASEMAP: ESRI, DELARME, NAVTEQ, TOMTOM, INTERMAP, iPC, USGS, FAO, NPS, NRCAN, GeoBASE, IGN, KADASTER NL, ORDNANCE SURVEY, ESRI JAPAN, METI, ESRI CHINA (HONG KONG), AND THE GIS USER COMMUNITY
 DATUM: NAD 83, COORDINATE SYSTEM: UTM ZONE 18



DATE	July 2012
DESIGN	BM
GIS	JEM

TITLE	KEY PLAN
PROJECT	
PHASE I ESA UPDATE - BLOCK 47 ROYAL RIDGE, OTTAWA, ONTARIO	

PROJECT No.	09-1121-0163	CHECK	BM
SCALE	AS SHOWN	REVIEW	DHP
REV.	0		

FIGURE 1



LEGEND

APPROXIMATE SITE BOUNDARY

NOTE

THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT No. 09-1121-0163/6000

REFERENCE

BASEMAP: ESRI, DELARME, NAVTEQ, TOMTOM, INTERMAP, iPC, USGS, FAO, NPS, NRCAN, GeoBASE, IGN, KADASTER NL, ORDNANCE SURVEY, ESRI JAPAN, METI, ESRI CHINA (HONG KONG), AND THE GIS USER COMMUNITY
 DATUM: NAD 83, COORDINATE SYSTEM: UTM ZONE 18

<p>Golder Associates Ottawa, Ontario</p>	DATE	July 2012	<p>SITE PLAN</p>	
	DESIGN	BM		
	GIS	JEM		
PROJECT No.	09-1121-0163	CHECK	BM	<p>PROJECT PHASE I ESA UPDATE - BLOCK 47 ROYAL RIDGE, OTTAWA, ONTARIO</p>
SCALE	AS SHOWN	REV.	0	
		REVIEW	DHP	



APPENDIX A

Site Photographs



APPENDIX A
Site Photographs, Block 47 - Royal Ridge Subdivision, Orleans, Ontario



Photograph 1: Looking north towards townhouses on the north side of the Site.



Photograph 2: Looking east towards townhouses on the east side of the Site.



APPENDIX A
Site Photographs, Block 47 - Royal Ridge Subdivision, Orleans, Ontario



Photograph 3: Looking south towards the vacant lot and forested area on the south side of the Site.



Photograph 4: Looking west towards a berm of excess soil on the west side of the Site.



APPENDIX A
Site Photographs, Block 47 - Royal Ridge Subdivision, Orleans, Ontario



Photograph 5: Looking south towards the vacant lot and forested area south of the Site with site trailer and waste bin in background.

N:\Active\2009\1121 - Geotechnical\09-1121-0163 Claridge Russell Findlay lands Ottawa\Environmental\Appendix A - Site Photographs.docx



APPENDIX B

Regulatory Requests

McParlan, Brandon

From: squibell@tssa.org on behalf of Public Information Services
[publicinformationsservices@tssa.org]
Sent: Monday, July 09, 2012 5:03 PM
To: McParlan, Brandon
Subject: Re: TSSA Request for Information - 940 Old Montreal Road, Orleans, Ontario

Hi Brandon,

Thank you for your inquiry.

I have searched the below noted address (addresses) and I have located the following record.

915 Watters Rd, Orleans has record of an active cylinder exchange facility.

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

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

Thank you and have a great day!

Sarah Quibell (née Png)

Public Information Services

TECHNICAL STANDARDS & SAFETY AUTHORITY
"Putting Public Safety First"
14th Floor, Centre Tower
3300 Bloor Street West
Toronto, ON M8X 2X4

www.tssa.org
Toll-Free: 1-877-682-8772

On Mon, Jul 9, 2012 at 11:56 AM, McParlan, Brandon <Brandon_McParlan@golder.com> wrote:

To whom it may concern,

We are in the process of preparing a Phase I Environmental Site Assessment for a site located at the former address of 940 Old Montreal Road in Orleans, Ontario.

Could you please review your records to determine if any bulk fuel underground storage tanks (USTs) were registered for the above address. Could you also please check your records for the properties located at the following addresses in Ottawa, Ontario:

915 and 920 Watters Road;

1444 Gerald Street; and,

1465 Trim Road.

Thank you,

Brandon McParlan

Brandon McParlan (B.Sc.) | Environmental Consultant | Golder Associates Ltd.

32 Steacie Drive, Kanata, Ontario, Canada K2K 2A9

T: +1 (613) 592 9600 | F: +1 (613) 592 9601 | C: +1 (613) 880-4891 | E: Brandon_McParlan@golder.com |

www.golder.com

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

DISCLAIMER

For use with HLUI Database

CITY OF OTTAWA ("the City") is the owner of the HISTORICAL LAND USE INVENTORY ("HLUI"), a database of information on the type and location of land uses within the geographic area of Ottawa, which had or have the potential to cause contamination in soil, groundwater or surface water.

The City, in providing information from the HLUI, to Golder Associates Ltd. ("the Requester") does so only under the following conditions and understanding:

1. This is a free service offered by the City.
2. The information which is contained in the HLUI has been compiled from publicly available records and other sources of information. The HLUI may contain erroneous information given that such records and sources of information may be flawed. Changes in municipal addresses over time may have introduced error in such records and sources of information. The City is not responsible for any errors or omissions in the HLUI and reserves the right to change and update the HLUI without further notice. The City does not, however, make any commitment to update the HLUI. Accordingly, all information from the HLUI is provided "as is".
3. City staff will perform a search of the HLUI based on the information given by the Requester. City staff will make every effort to be accurate, however, the City does not provide an assurance, guarantee, warranty, representation (express or implied), as to the availability, accuracy, completeness or currency of information which will be provided to the Requester. The HLUI in no way confirms the presence or absence of contamination or pollution of any kind. The information to be provided by the City to the Requester is provided on the assumption that no person shall rely on it without undertaking independent verification of it for any purpose whatsoever and all liability to any such person is denied.
4. The City, its employees, servants, agents, boards, officials or contractors take no responsibility for any actions, claims, losses, liability, judgments, demands, expenses, costs, damages or harm suffered by any person whatsoever including negligence in compiling or disseminating information in the HLUI.
5. Copyright is reserved to the City.
6. Any use of the information provided from the HLUI which a third party makes, or any reliance on or decisions to be based on it, are the responsibilities of such third parties. The City, its employees, servants, agents, boards, officials or contractors accept no responsibility for any damages, if any, suffered by a third party as a result of decisions made as a result of an information search of the HLUI.
7. Any use of this service by the Requestor indicates an acknowledgement, acceptance and limits of this disclaimer.
8. All information collected under this request and all records provided in response to this request are subject to the provisions of the *Municipal Freedom of Information and Protection of Privacy Act*, R.S.O. 1990, c. M56, as amended.

Signed: B. McParlan

Dated: July 10, 2012

Per: Brandon McParlan

(Please print name)

Title: Assessor

Company: Golder Associates Ltd.

CONFIDENTIAL

File No.: 09-1121-0163 (6000)
Deadline for Response: July 20, 2012

Phase 1 – Environmental Site Assessment

Request for Information

(Informal Request)*

1. REQUESTER INFORMATION

- a) Name of Requester: Brandon McParlan
b) Address of Requester: 32 Steacie Drive, Kanata, ON,
c) Telephone Number: 613-592-9600
d) Site Address: Lot- - Concession: -
Street: 940 Old Montreal Road City/Town: Ottawa, ON
Postal Code: -
e) Legal Plan Attached: Yes () No (X)
f) Site Owner: Claridge Homes
g) Adjacent Property Owners: N/A
h) Date of Ownership: N/A.
Previous Owner(s): Regional Group.
i) Type of Site: () vacant, (X) residential, () commercial,
() other (specify)
j) Requestors relationship to Site: Consultant.
k) Date of Previous Request: 2004
l) Date of Previous ESA: 2004
m) Information Requested: As per Fax Cover Sheet.

2. CONFIDENTIALITY

- a) Consent Required: (X) Owner () Tenant () Purchaser () Legal**
b) Consent Obtained: (X) Owner () Tenant () Purchaser () Legal**

*(If formal MFIPPA request, please forward to Corporate Access and Privacy Coordinator, Clerk's Department)

** (Consent letters must contain the information required, give authorization to requestor, and be dated and signed)

This form has been prepared by Golder Associates, for client use, with regard to submissions to the City of Ottawa ("City") for environmental related information on the property noted below. It will be used by Golder Associates, who have been retained to carry out a Phase I Environmental Site Assessment.

This form is to be completed by the property owner/agent and forwarded to Golder Associates Ltd. who will then append it with a request for information to the City. The intent of the form is to notify the City that Golder Associates Ltd. is authorised to access the requested environmental information.

.....

Property Location Information:

Civic Address 940 Old Montreal Road
Ottawa, ON

Legal Description (Note: New Block 47 - Royal Ridge
Subdivision. Use 940 Old Montreal Road
for HLUI Searches).

Property Contact Information:

Owner Claridge Homes (Trim Rd.) Inc.

Phone Number 613 233 6030

Fax Number 613 233-8290

Owner Representative Jim Burghout

Owner Representative Signature Burghout

Date July 10, 2012

MODE = MEMORY TRANSMISSION

START=JUL-09 12:31

END=JUL-09 12:33

FILE NO.=587

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FACSIMILE

DATE July 9, 2012
TO Ministry of the Environment

PROJECT No. 09-1121-0163 (6000)
FAX No. 613-521-5437

TOTAL PAGES 1 (Including cover sheet)

FROM Brandon McParlan

EMAIL bmcparlan@golder.com

RE: REQUEST FOR ENVIRONMENTAL INFORMATION FOR A PHASE I ENVIRONMENTAL SITE ASSESSMENT, BLOCK 47 - ROYAL RIDGE SUBDIVISION, ORLEANS, ONTARIO

We are in the process of preparing a Phase I Environmental Site Assessment for the property noted above (please use former address of 940 Old Montreal Road, Ottawa, Ontario). For your reference we have included a site plan showing the location of the site.

It is requested that the Ministry provide an Index Review Report with respect to the following:

- Active Orders under the Environmental Protection Act (EPA), the Ontario Water Resources Act (OWRA), and the Pesticides Act (PA); and,
- Approvals under Sections 9 and 39 of the EPA as well as Sections 52 and 53 of the OWRA.

Your usual prompt attention to this matter is appreciated. Should you have any questions please contact our office.

GOLDER ASSOCIATES LTD.

Brandon McParlan, B.Sc.
Environmental Consultant

BCJM

Hard copy to follow by mail: Yes No

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DATE July 9, 2012

PROJECT No. 09-1121-0163 (6000)

TO Ministry of the Environment

FAX No. 613-521-5437

TOTAL PAGES 1 (Including cover sheet)

FROM Brandon McParlan

EMAIL bmcparlan@golder.com

**RE: REQUEST FOR ENVIRONMENTAL INFORMATION FOR A PHASE I ENVIRONMENTAL SITE
ASSESSMENT, BLOCK 47 - ROYAL RIDGE SUBDIVISION, ORLEANS, ONTARIO**

We are in the process of preparing a Phase I Environmental Site Assessment for the property noted above (please use former address of 940 Old Montreal Road, Ottawa, Ontario). For your reference we have included a site plan showing the location of the site.

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GOLDER ASSOCIATES LTD.



Brandon McParlan, B.Sc.
Environmental Consultant

BCJM

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c:\users\bmcparlan\desktop\phase i esa\regulatory requests\moe request.docx



McParlan, Brandon

From: McParlan, Brandon
Sent: Tuesday, July 10, 2012 1:56 PM
To: 'hlui'
Subject: Request for 940 Old Montreal Road, Ottawa, ON
Attachments: HLUI Package.pdf

To whom it concerns,

Please find attached a request for HLUI for the above noted address.

The deadline for the request is listed as July 30, 2012, but we would like to have the HLUI as soon as possible.

Thank you,

Brandon McParlan

Brandon McParlan (B.Sc.) | Environmental Consultant | Golder Associates Ltd.
32 Steacie Drive, Kanata, Ontario, Canada K2K 2A9
T: +1 (613) 592 9600 | F: +1 (613) 592 9601 | C: +1 (613) 880-4891 | E: Brandon.McParlan@golder.com |
www.golder.com

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APPENDIX C

EcoLog ERIS Report



Canada's Primary Environmental Risk Information Service

Project Site: Un-named
Antigonish Ave
Ottawa, ON

Client: Brandon Mcparlan
Golder Associates Ltd.
32 Steacie Dr
Kanata, ON K2K2A9

ERIS Project No: 20120704034

Report Type: Standard Report - .25km Search Radius

Prepared By: Daniela Nigro
dnigro@eris.ca

Date: July 11, 2012

DISCLAIMER AND COPYRIGHT NOTICE

The information contained in this report has been produced by EcoLog ERIS Ltd. using various sources of information, including information provided by Federal and Provincial government departments. Although EcoLog ERIS Ltd. has endeavoured to present you with information that is accurate, EcoLog ERIS Ltd. disclaims, except as set out below, any and all liability for any errors, omissions, or inaccuracies in such information and data, whether attributable to inadvertence or otherwise, and for any consequences arising therefrom. Liability on the part of EcoLog ERIS Ltd. is limited to the monetary value paid for this report. The report applies only to the address specified on the cover of this report, and any alterations or deviation from this description will require a new report. This report and the data contained herein does not purport to be and does not constitute a guarantee of the accuracy of the information contained herein and does not constitute a legal opinion nor medical advice. This report is solely intended to be used to focus further investigation and is not intended to replace a full Phase 1 Environmental Site Assessment. No page of this report should be used without this cover page, this disclaimer and the project property identifier.

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Table of Contents

Order Number: 20120704034
Site Name: Un-named
Site Address: Antigonish Ave Ottawa, ON
Report Type: Standard Report, 0.25 km Search Radius

	<u>Section</u>
Report Summary <i>This outlines the number of records from each database that fall on the site, and within various distances from the site.</i>	i
Site Diagram <i>The records that were found within a specified distance from the project property (the primary search radius) have been plotted on a diagram to provide you with a visual representation of the information available. Sites will be plotted on the diagram if there is sufficient information from the database source to determine accurate geographic coordinates. Each plotted site is marked with an acronym identifying the database in which the record was found (i.e., WDS for Waste Disposal Sites). These are referred to as "Map Keys". A variety of problems are inherent when attempting to associate various government or private source records with locations. EcoLog ERIS has attempted to make the best fit possible between the available data and their positions on the site diagram.</i>	ii
Site Profile <i>This table describes the records that relate directly to the property that is being researched.</i>	iii
Detail Report <i>This section represents information, by database, for the records found within the primary search radius. Listed at the end of each database are the sites that could not be plotted on the locator diagram because of insufficient address information. These records will not have map keys. They have been included because they may be found to be relevant during a more detailed investigation.</i>	iv
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Abandoned Aggregate Inventory	1
Borehole	2
Certificates of Approval	6
ERIS Historical Searches	7
Private and Retail Fuel Storage Tanks	8
Water Well Information System	9
 Appendix: Database Descriptions	

Report Summary

Order Number: 20120704034
 Site Name: Un-named
 Site Address: Antigonish Ave Ottawa, ON
 Report Type: Standard Report, 0.25 km Search Radius

Number of Mappable Records Surrounding the Site

Database	Selected	On-site	Within 0.25	0.25km to 2.00km	Total	
AAGR	Abandoned Aggregate Inventory	Y	0	0	0	
AGR	Aggregate Inventory	Y	0	0	0	
AMIS	Abandoned Mine Information System	Y	0	0	0	
ANDR	Anderson's Waste Disposal Sites	Y	0	0	0	
AUWR	Automobile Wrecking & Supplies	Y	0	0	0	
BORE	Borehole	Y	0	4	106	110
CA	Certificates of Approval	Y	0	2	47	49
CFOT	Commercial Fuel Oil Tanks	Y	0	0	0	0
CHEM	Chemical Register	Y	0	0	0	0
COAL	Coal Gasification Plants	Y	0	0	0	0
CONV	Compliance and Convictions	Y	0	0	0	0
CPU	Certificates of Property Use	Y	0	0	0	0
DRL	Drill Hole Database	Y	0	0	0	0
EASR	Environmental Activity and Sector Registry	Y	0	0	1	1
EBR	Environmental Registry	Y	0	0	4	4
ECA	Environmental Compliance Approval	Y	0	0	1	1
EEM	Environmental Effects Monitoring	Y	0	0	0	0
EHS	ERIS Historical Searches	Y	0	1	22	23
EIIS	Environmental Issues Information System	Y	0	0	0	0
EXP	List of TSSA Expired Facilities	Y	0	0	10	10
FCON	Federal Convictions	Y	0	0	0	0
FCS	Contaminated Sites on Federal Land	Y	0	0	0	0
FOFT	Fisheries & Oceans Fuel Storage Tanks	Y	0	0	0	0
FST	Fuel Storage Tank	Y	0	0	10	10
GEN	Ontario Regulation 347 Waste Generators Summary	Y	0	0	60	60
HINC	TSSA Historic Incidents	Y	0	0	13	13
IAFT	Indian & Northern Affairs Fuel Tanks	Y	0	0	0	0
INC	TSSA Incidents	Y	0	0	3	3
LIMO	Landfill Inventory Management Ontario	Y	0	0	0	0
MINE	Canadian Mine Locations	Y	0	0	0	0
MNR	Mineral Occurrences	Y	0	0	1	1
NATE	National Analysis of Trends in Emergencies System (NATES)	Y	0	0	0	0
NCPL	Non-Compliance Reports	Y	0	0	0	0
NDFT	National Defence & Canadian Forces Fuel Storage Tanks	Y	0	0	0	0
NDSP	National Defence & Canadian Forces Spills	Y	0	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Y	0	0	0	0
NEES	National Environmental Emergencies System (NEES)	Y	0	0	0	0
NPCB	National PCB Inventory	Y	0	0	2	2
NPRI	National Pollutant Release Inventory	Y	0	0	0	0
OGW	Oil and Gas Wells	Y	0	0	0	0
OOGW	Ontario Oil and Gas Wells	Y	0	0	0	0
OPCB	Inventory of PCB Storage Sites	Y	0	0	0	0

Report Summary

Order Number: 20120704034
Site Name: Un-named
Site Address: Antigonish Ave Ottawa, ON
Report Type: Standard Report, 0.25 km Search Radius

Database	Selected	On-site	Within 0.25	0.25km to 2.00km	Total	
ORD	Orders	Y	0	0	0	
PAP	Canadian Pulp and Paper	Y	0	1	1	
PCFT	Parks Canada Fuel Storage Tanks	Y	0	0	0	
PES	Pesticide Register	Y	0	13	13	
PINC	TSSA Pipeline Incidents	Y	0	1	1	
PRT	Private and Retail Fuel Storage Tanks	Y	0	4	4	
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	2	2	
SCT	Scott's Manufacturing Directory	Y	0	28	28	
SPL	Ontario Spills	Y	0	36	36	
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	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	9	132	141	
TOTAL			0	16	497	513

The databases chosen by the client as per the submitted order form are denoted in the 'Selected' column in the above table. Counts have been provided outside the primary buffer area for cursory examination only. These records have not been examined or verified, therefore, they are subject to change.



Pinpointing Your Environmental Risks

80 Valleybrook Dr, Toronto, ON M3B 2S9
416-510-5204

Project Property: Un-named
Antigonish Ave
Ottawa, ON

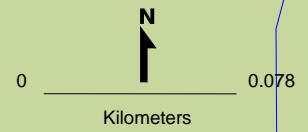
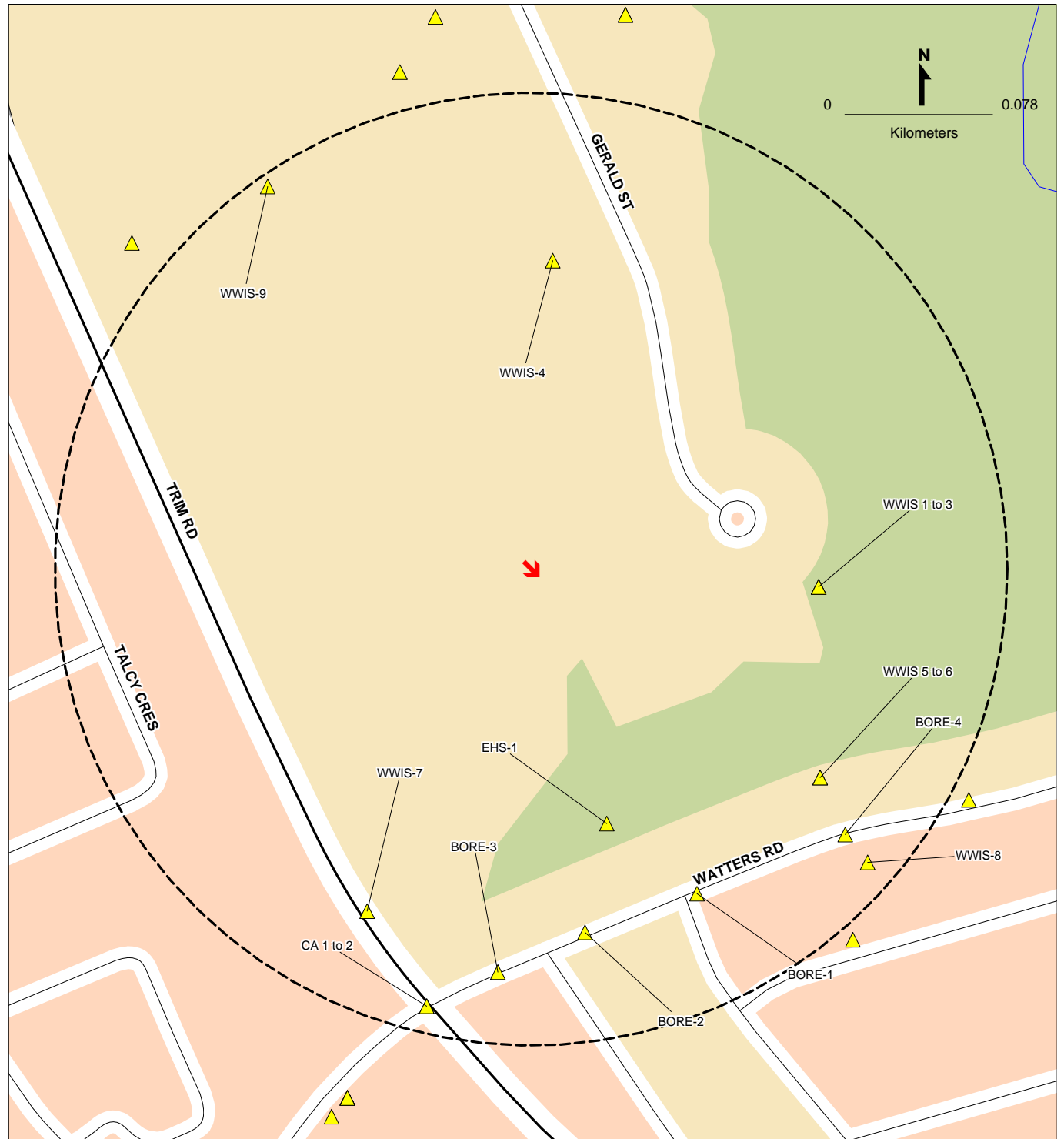
ERIS Project #: 20120704034

Date: JUL-11-2012

LEGEND

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

SITE DIAGRAM



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

Site Report

Order Number: 20120704034

Site Name: Un-named

Site Address: Antigonish Ave Ottawa, ON

Report Type: Standard Report, 0.25 km Search Radius

FOR COMPLETE INFORMATION, REFER TO DETAIL REPORT

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

Detail Report

Order Number: 20120704034

Site Name: Un-named

Site Address: Antigonish Ave Ottawa ON

Report Type: Standard Report, 0.25 km Search Radius

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

Abandoned Aggregate Inventory

Borehole

Certificates of Approval

ERIS Historical Searches

Private and Retail Fuel Storage Tanks

Water Well Information System

Abandoned Aggregate Inventory

Map Key	Company	Address	Type	Region/County	Township
n/a		Lot 30 Con 2 City of Ottawa	Quarry	Ottawa-Carleton	City of Ottawa
			Concession:	2	
			Lot:	30	
			Size (ha):	3.7	
			Landuse:		
			Comments:		

Borehole

Map Key	Company	Address	Borehole ID	Type	Use
BORE-1			809225	Borehole	Geotechnical/Geological Investigation

Status:
Drill Method: Hollow stem auger
UTM Zone: 18
Easting: 463064.726
Northing: 5036860.044
Location Accuracy:
Orig. Ground Elevation(m): 84.699997
Elev. Reliability Note:
DEM Ground Elevation(m): 86
Total Depth(m): 3.700000
Primary Name: BH 03-103
Township:
Concession:
Lot:
Municipality
Completion Date: 2003-OCT-5
Static Water Level:
Primary Water Use:
Secondary Water Use:
Location Description:

<u>Geology</u> <u>Stratum ID</u>	<u>Top Depth(m)</u>	<u>Bottom Depth(m)</u>	<u>Stratum Desc</u>
218599308	0	0.100000	Grey Crushed Stone
218599309	0.100000	0.500000	Brown Fill-Misc Sand - Gravel
218599310	0.500000	3	Grey-Brown to Reddish Brown Very Stiff to Stiff Weathered Crust Silty Clay
218599311	3	3.700000	Grey Firm to Stiff Silty Clay

Borehole

Map Key	Company	Address	Borehole ID	Type	Use
BORE-2			809224	Borehole	Geotechnical/Geological Investigation

Status:
Drill Method: Hollow stem auger
UTM Zone: 18
Easting: 463005.740
Northing: 5036840.150
Location Accuracy:
Orig. Ground Elevation(m): 86.199997
Elev. Reliability Note:
DEM Ground Elevation(m): 87.500000
Total Depth(m): 3.700000
Primary Name: BH 03-102
Township:
Concession:
Lot:
Municipality:
Completion Date: 2003-OCT-3
Static Water Level:
Primary Water Use:
Secondary Water Use:
Location Description:

<u>Geology Stratum ID</u>	<u>Top Depth(m)</u>	<u>Bottom Depth(m)</u>	<u>Stratum Desc</u>
218599302	0	0.100000	Grey Crushed Stone
218599303	0.100000	0.300000	Brown Fill-Misc Sand - Gravel
218599304	0.300000	0.500000	Brown Fill-Misc Silty Clay
218599305	0.500000	0.600000	Dark Brown Topsoil Silt
218599306	0.600000	0.800000	Light Brown clay silt
218599307	0.800000	3.700000	Grey-Brown to Reddish Brown Very Stiff Weathered Crust Silty Clay

Borehole

Map Key	Company	Address	Borehole ID	Type	Use
---------	---------	---------	-------------	------	-----

BORE-3			809223	Borehole	Geotechnical/Geological Investigation
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Status:
Drill Method: Hollow stem auger
UTM Zone: 18
Easting: 462959.738
Northing: 5036819.512
Location Accuracy:
Orig. Ground Elevation(m): 86.199997
Elev. Reliability Note:
DEM Ground Elevation(m): 87.800003
Total Depth(m): 3.700000
Primary Name: BH 03-101
Township:
Concession:
Lot:
Municipality:
Completion Date: 2003-OCT-3
Static Water Level:
Primary Water Use:
Secondary Water Use:
Location Description:

<u>Geology</u> <u>Stratum ID</u>	<u>Top Depth(m)</u>	<u>Bottom Depth(m)</u>	<u>Stratum Desc</u>
218599300	0	0.700000	Grey Crushed Stone
218599301	0.700000	3.700000	Grey-Brown Very Stiff Fill-Misc Silty Clay Trace: Sa Tr Gr Tr Org M

Borehole

Map Key	Company	Address	Borehole ID	Type	Use
BORE-4			809226	Borehole	Geotechnical/Geological Investigation

Status:
Drill Method: Hollow stem auger
UTM Zone: 18
Easting: 463142.906
Northing: 5036890.579
Location Accuracy:
Orig. Ground Elevation(m): 83.599998
Elev. Reliability Note:
DEM Ground Elevation(m): 84.099998
Total Depth(m): 4.300000
Primary Name: BH 03-104
Township:
Concession:
Lot:
Municipality:
Completion Date: 2003-OCT-3
Static Water Level: 2.600000
Primary Water Use:
Secondary Water Use:
Location Description:

<u>Geology</u> <u>Stratum ID</u>	<u>Top Depth(m)</u>	<u>Bottom Depth(m)</u>	<u>Stratum Desc</u>
218599312	0	0	Asphalt
218599313	0	0.100000	Grey Crushed Stone
218599314	0.100000	0.400000	Brown Fill-Misc Sand - Gravel
218599315	0.400000	2.700000	Grey-Brown to Reddish Brown Very Stiff Weathered Crust Silty Clay
218599316	2.700000	3.900000	Grey Firm to Stiff Silty Clay
218599317	3.900000	4.300000	Grey Silty Clay

Certificates of Approval

Map Key	Company	Address	Certificate #	Application Year	Issue Date	Approval Type	Status	Application Type
CA-1	MONARCH CONSTRUCTION LTD. - PLAZA	WATTERS ROAD AT TRIM RD. CUMBERLAND TWP.	7-0704-90-	90	5/25/1990	Municipal water	Approved	
			Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control:					
CA-2	CROWN POINTE DEVELOPMENT INC.	WATTERS RD./TRIM RD. (SWM) CUMBERLAND TWP.	3-0758-96-	96	9/3/1996	Municipal sewage	Approved	
			Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control:					

ERIS Historical Searches

Map Key	Company	Address	Order No.	Report Date	Report Type	Search Radius (km)
EHS-1		Trim Rd & Watters Rd Orleans	20120417023	4/26/2012 12:07:07 PM	Standard Report	0.25
			Addit. Info Ordered:	Fire Insur. Maps and/or Site Plans; Title Searches; City Directory		

Private and Retail Fuel Storage Tanks

Map Key	Company	Address	Location ID	Type	Expiry Date	Capacity (L)	Licence #
n/a	MINISTRY OF TRANSPORTATION	LOT 30 CON 1 CUMBERLAND TWP	3686	private		27280.00	0001011683

Water Well Information System

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality																								
WWIS-1		lot 29 con 1	1518981	029	01	OF	OTTAWA-CARLETON	CUMBERLAND TOWNSHIP																								
<p> Easting Nad83: 463129.8 Northing Nad83: 5037021 Zone: 18 Utm Reliability: margin of error : 30 m - 100 m Construction Date: 5/28/1984 Primary Water Use: Domestic Secondary Water Use: Well Depth: 140 ft Pump Rate: 80 GPM Static Water Level: 71 ft Flow Rate: Clear/Cloudy: CLOUDY Specific Capacity: Final Well Status: Water Supply Construction Method: Rotary (Air) Flowing (y/n): N Elevation (m): 69.636421 Elevation Reliability: Depth to Bedrock: Overburden/Bedrock: Overburden Water Type: FRESH Casing Material: OPEN HOLE, STEEL </p> <table border="1"> <thead> <tr> <th><u>Thickness</u></th> <th><u>Original Depth</u></th> <th><u>Material Colour</u></th> <th><u>Material</u></th> </tr> </thead> <tbody> <tr> <td>18 ft</td> <td>18 ft</td> <td>RED</td> <td>CLAY</td> </tr> <tr> <td>5 ft</td> <td>23 ft</td> <td>YELLOW</td> <td>CLAY</td> </tr> <tr> <td>99 ft</td> <td>122 ft</td> <td>BLUE</td> <td>CLAY</td> </tr> <tr> <td>4 ft</td> <td>126 ft</td> <td>GREY</td> <td>GRAVEL</td> </tr> <tr> <td>14 ft</td> <td>140 ft</td> <td>GREY</td> <td>GRAVEL</td> </tr> </tbody> </table>									<u>Thickness</u>	<u>Original Depth</u>	<u>Material Colour</u>	<u>Material</u>	18 ft	18 ft	RED	CLAY	5 ft	23 ft	YELLOW	CLAY	99 ft	122 ft	BLUE	CLAY	4 ft	126 ft	GREY	GRAVEL	14 ft	140 ft	GREY	GRAVEL
<u>Thickness</u>	<u>Original Depth</u>	<u>Material Colour</u>	<u>Material</u>																													
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99 ft	122 ft	BLUE	CLAY																													
4 ft	126 ft	GREY	GRAVEL																													
14 ft	140 ft	GREY	GRAVEL																													

Water Well Information System

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality																				
WWIS-2		lot 29 con 1	1519192	029	01	OF	OTTAWA-CARLETON	CUMBERLAND TOWNSHIP																				
<p> Easting Nad83: 463129.8 Northing Nad83: 5037021 Zone: 18 Utm Reliability: margin of error : 30 m - 100 m Construction Date: 7/20/1984 Primary Water Use: Domestic Secondary Water Use: Well Depth: 155 ft Pump Rate: 100 GPM Static Water Level: 72 ft Flow Rate: Clear/Cloudy: CLOUDY Specific Capacity: Final Well Status: Water Supply Construction Method: Rotary (Air) Flowing (y/n): N Elevation (m): 69.636421 Elevation Reliability: Depth to Bedrock: 140 Overburden/Bedrock: Bedrock Water Type: FRESH Casing Material: STEEL, OPEN HOLE </p> <table border="1"> <thead> <tr> <th><u>Thickness</u></th> <th><u>Original Depth</u></th> <th><u>Material Colour</u></th> <th><u>Material</u></th> </tr> </thead> <tbody> <tr> <td>17 ft</td> <td>17 ft</td> <td>RED</td> <td>CLAY</td> </tr> <tr> <td>120 ft</td> <td>137 ft</td> <td>BLUE</td> <td>CLAY</td> </tr> <tr> <td>3 ft</td> <td>140 ft</td> <td>GREY</td> <td>HARDPAN, FRACTURED</td> </tr> <tr> <td>15 ft</td> <td>155 ft</td> <td>GREY</td> <td>LIMESTONE</td> </tr> </tbody> </table>									<u>Thickness</u>	<u>Original Depth</u>	<u>Material Colour</u>	<u>Material</u>	17 ft	17 ft	RED	CLAY	120 ft	137 ft	BLUE	CLAY	3 ft	140 ft	GREY	HARDPAN, FRACTURED	15 ft	155 ft	GREY	LIMESTONE
<u>Thickness</u>	<u>Original Depth</u>	<u>Material Colour</u>	<u>Material</u>																									
17 ft	17 ft	RED	CLAY																									
120 ft	137 ft	BLUE	CLAY																									
3 ft	140 ft	GREY	HARDPAN, FRACTURED																									
15 ft	155 ft	GREY	LIMESTONE																									

Water Well Information System

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality																								
WWIS-3		lot 29 con 1	1518983	029	01	OF	OTTAWA-CARLETON	CUMBERLAND TOWNSHIP																								
<p>Easting Nad83: 463129.8 Northing Nad83: 5037021 Zone: 18 Utm Reliability: margin of error : 30 m - 100 m Construction Date: 5/25/1984 Primary Water Use: Domestic Secondary Water Use: Well Depth: 150 ft Pump Rate: 80 GPM Static Water Level: 61 ft Flow Rate: Clear/Cloudy: Specific Capacity: Final Well Status: Water Supply Construction Method: Rotary (Air) Flowing (y/n): N Elevation (m): 69.636421 Elevation Reliability: Depth to Bedrock: 134 Overburden/Bedrock: Bedrock Water Type: FRESH Casing Material: STEEL, OPEN HOLE</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Thickness</u></th> <th style="text-align: left;"><u>Original Depth</u></th> <th style="text-align: left;"><u>Material Colour</u></th> <th style="text-align: left;"><u>Material</u></th> </tr> </thead> <tbody> <tr> <td>16 ft</td> <td>16 ft</td> <td>RED</td> <td>CLAY</td> </tr> <tr> <td>8 ft</td> <td>24 ft</td> <td>YELLOW</td> <td>CLAY</td> </tr> <tr> <td>106 ft</td> <td>130 ft</td> <td>BLUE</td> <td>CLAY</td> </tr> <tr> <td>4 ft</td> <td>134 ft</td> <td>GREY</td> <td>FINE GRAVEL</td> </tr> <tr> <td>16 ft</td> <td>150 ft</td> <td>GREY</td> <td>LIMESTONE</td> </tr> </tbody> </table>									<u>Thickness</u>	<u>Original Depth</u>	<u>Material Colour</u>	<u>Material</u>	16 ft	16 ft	RED	CLAY	8 ft	24 ft	YELLOW	CLAY	106 ft	130 ft	BLUE	CLAY	4 ft	134 ft	GREY	FINE GRAVEL	16 ft	150 ft	GREY	LIMESTONE
<u>Thickness</u>	<u>Original Depth</u>	<u>Material Colour</u>	<u>Material</u>																													
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106 ft	130 ft	BLUE	CLAY																													
4 ft	134 ft	GREY	FINE GRAVEL																													
16 ft	150 ft	GREY	LIMESTONE																													

Water Well Information System

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality
WWIS-4		lot 29 con 1	1512336	029	01	OF	OTTAWA-CARLETON	CUMBERLAND TOWNSHIP
			<p> Easting Nad83: 462990.8 Northing Nad83: 5037192 Zone: 18 Utm Reliability: margin of error : 30 m - 100 m Construction Date: 9/22/1972 Primary Water Use: Domestic Secondary Water Use: Well Depth: 94 ft Pump Rate: 7 GPM Static Water Level: 65 ft Flow Rate: Clear/Cloudy: CLEAR Specific Capacity: Final Well Status: Water Supply Construction Method: Cable Tool Flowing (y/n): N Elevation (m): 83.612327 Elevation Reliability: Depth to Bedrock: 90 Overburden/Bedrock: Bedrock Water Type: FRESH Casing Material: STEEL, OPEN HOLE </p>					
			<u>Thickness</u>	<u>Original Depth</u>		<u>Material Colour</u>	<u>Material</u>	
			20 ft	20 ft		RED	CLAY	
			65 ft	85 ft		BLUE	CLAY	
			5 ft	90 ft		GREY	GRAVEL	
			4 ft	94 ft		GREY	ROCK	

Water Well Information System

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality
WWIS-5		lot 29 con 1	1518790	029	01	OF	OTTAWA-CARLETON	CUMBERLAND TOWNSHIP
			<p> Easting Nad83: 463129.8 Northing Nad83: 5036921 Zone: 18 Utm Reliability: margin of error : 30 m - 100 m Construction Date: 12/5/1983 Primary Water Use: Domestic Secondary Water Use: Well Depth: 140 ft Pump Rate: 40 GPM Static Water Level: 61 ft Flow Rate: Clear/Cloudy: CLEAR Specific Capacity: Final Well Status: Water Supply Construction Method: Rotary (Air) Flowing (y/n): N Elevation (m): 80.966835 Elevation Reliability: Depth to Bedrock: 136 Overburden/Bedrock: Bedrock Water Type: FRESH Casing Material: STEEL, OPEN HOLE </p>					
			<u>Thickness</u>	<u>Original Depth</u>		<u>Material Colour</u>	<u>Material</u>	
			17 ft	17 ft		RED	CLAY	
			115 ft	132 ft		BLUE	CLAY	
			4 ft	136 ft		GREY	FINE GRAVEL	
			4 ft	140 ft		GREY	LIMESTONE	

Water Well Information System

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality
WWIS-6		lot 29 con 1	1518982	029	01	OF	OTTAWA-CARLETON	CUMBERLAND TOWNSHIP
			<p> Easting Nad83: 463129.8 Northing Nad83: 5036921 Zone: 18 Utm Reliability: margin of error : 30 m - 100 m Construction Date: 6/15/1984 Primary Water Use: Domestic Secondary Water Use: Well Depth: 140 ft Pump Rate: 150 GPM Static Water Level: 50 ft Flow Rate: Clear/Cloudy: CLOUDY Specific Capacity: Final Well Status: Water Supply Construction Method: Rotary (Air) Flowing (y/n): N Elevation (m): 80.966835 Elevation Reliability: Depth to Bedrock: 114 Overburden/Bedrock: Bedrock Water Type: FRESH Casing Material: STEEL, OPEN HOLE </p>					
			<u>Thickness</u>	<u>Original Depth</u>		<u>Material Colour</u>	<u>Material</u>	
			110 ft	110 ft		RED	CLAY	
			4 ft	114 ft		BLUE	CLAY	
			26 ft	140 ft		GREY	LIMESTONE	

Water Well Information System

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality																
WWIS-7		lot 30 con 1	1515859	030	01	OF	OTTAWA-CARLETON	CUMBERLAND TOWNSHIP																
<p> Easting Nad83: 462890.8 Northing Nad83: 5036852 Zone: 18 Utm Reliability: margin of error : 30 m - 100 m Construction Date: 10/7/1976 Primary Water Use: Domestic Secondary Water Use: Well Depth: 140 ft Pump Rate: 60 GPM Static Water Level: 35 ft Flow Rate: Clear/Cloudy: CLEAR Specific Capacity: Final Well Status: Water Supply Construction Method: Rotary (Air) Flowing (y/n): N Elevation (m): 88.016983 Elevation Reliability: Depth to Bedrock: 137 Overburden/Bedrock: Bedrock Water Type: FRESH Casing Material: STEEL </p> <table border="1"> <thead> <tr> <th><u>Thickness</u></th> <th><u>Original Depth</u></th> <th><u>Material Colour</u></th> <th><u>Material</u></th> </tr> </thead> <tbody> <tr> <td>20 ft</td> <td>20 ft</td> <td>YELLOW</td> <td>CLAY</td> </tr> <tr> <td>117 ft</td> <td>137 ft</td> <td>BLUE</td> <td>CLAY</td> </tr> <tr> <td>3 ft</td> <td>140 ft</td> <td>GREY</td> <td>LIMESTONE</td> </tr> </tbody> </table>									<u>Thickness</u>	<u>Original Depth</u>	<u>Material Colour</u>	<u>Material</u>	20 ft	20 ft	YELLOW	CLAY	117 ft	137 ft	BLUE	CLAY	3 ft	140 ft	GREY	LIMESTONE
<u>Thickness</u>	<u>Original Depth</u>	<u>Material Colour</u>	<u>Material</u>																					
20 ft	20 ft	YELLOW	CLAY																					
117 ft	137 ft	BLUE	CLAY																					
3 ft	140 ft	GREY	LIMESTONE																					

Water Well Information System

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality																				
WWIS-8		lot C con 9	1515054	C	09	CON	OTTAWA-CARLETON	CUMBERLAND TOWNSHIP																				
<p> Easting Nad83: 463154.8 Northing Nad83: 5036876 Zone: 18 Utm Reliability: margin of error : 30 m - 100 m Construction Date: 10/9/1975 Primary Water Use: Domestic Secondary Water Use: Well Depth: 173 ft Pump Rate: 10 GPM Static Water Level: 40 ft Flow Rate: Clear/Cloudy: CLEAR Specific Capacity: Final Well Status: Water Supply Construction Method: Air Percussion Flowing (y/n): N Elevation (m): 85.513694 Elevation Reliability: Depth to Bedrock: 28 Overburden/Bedrock: Bedrock Water Type: FRESH Casing Material: STEEL, OPEN HOLE </p> <table border="1"> <thead> <tr> <th><u>Thickness</u></th> <th><u>Original Depth</u></th> <th><u>Material Colour</u></th> <th><u>Material</u></th> </tr> </thead> <tbody> <tr> <td>28 ft</td> <td>28 ft</td> <td>GREY</td> <td>CLAY</td> </tr> <tr> <td>10 ft</td> <td>38 ft</td> <td>GREY</td> <td>LIMESTONE</td> </tr> <tr> <td>6 ft</td> <td>44 ft</td> <td></td> <td>ROCK</td> </tr> <tr> <td>129 ft</td> <td>173 ft</td> <td>GREY</td> <td>LIMESTONE</td> </tr> </tbody> </table>									<u>Thickness</u>	<u>Original Depth</u>	<u>Material Colour</u>	<u>Material</u>	28 ft	28 ft	GREY	CLAY	10 ft	38 ft	GREY	LIMESTONE	6 ft	44 ft		ROCK	129 ft	173 ft	GREY	LIMESTONE
<u>Thickness</u>	<u>Original Depth</u>	<u>Material Colour</u>	<u>Material</u>																									
28 ft	28 ft	GREY	CLAY																									
10 ft	38 ft	GREY	LIMESTONE																									
6 ft	44 ft		ROCK																									
129 ft	173 ft	GREY	LIMESTONE																									

Water Well Information System

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality												
WWIS-9		lot 29 con 1	1511697	029	01	OF	OTTAWA-CARLETON	CUMBERLAND TOWNSHIP												
<p> Easting Nad83: 462840.8 Northing Nad83: 5037232 Zone: 18 Utm Reliability: margin of error : 30 m - 100 m Construction Date: 8/18/1971 Primary Water Use: Domestic Secondary Water Use: Well Depth: 121 ft Pump Rate: 10 GPM Static Water Level: 55 ft Flow Rate: Clear/Cloudy: CLEAR Specific Capacity: Final Well Status: Water Supply Construction Method: Cable Tool Flowing (y/n): N Elevation (m): 81.606758 Elevation Reliability: Depth to Bedrock: 110 Overburden/Bedrock: Bedrock Water Type: FRESH Casing Material: OPEN HOLE, STEEL </p> <table border="1"> <thead> <tr> <th><u>Thickness</u></th> <th><u>Original Depth</u></th> <th><u>Material Colour</u></th> <th><u>Material</u></th> </tr> </thead> <tbody> <tr> <td>110 ft</td> <td>110 ft</td> <td>BLUE</td> <td>CLAY</td> </tr> <tr> <td>11 ft</td> <td>121 ft</td> <td>GREY</td> <td>LIMESTONE</td> </tr> </tbody> </table>									<u>Thickness</u>	<u>Original Depth</u>	<u>Material Colour</u>	<u>Material</u>	110 ft	110 ft	BLUE	CLAY	11 ft	121 ft	GREY	LIMESTONE
<u>Thickness</u>	<u>Original Depth</u>	<u>Material Colour</u>	<u>Material</u>																	
110 ft	110 ft	BLUE	CLAY																	
11 ft	121 ft	GREY	LIMESTONE																	

Water Well Information System

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality												
n/a		lot 30 con 1	1519983	030	01	OF	OTTAWA-CARLETON	CUMBERLAND TOWNSHIP												
<p>Easting Nad83: Northing Nad83: Zone: 18 Utm Reliability: unknown UTM Construction Date: 6/22/1985 Primary Water Use: Domestic Secondary Water Use: Well Depth: 68 ft Pump Rate: 6 GPM Static Water Level: 10 ft Flow Rate: Clear/Cloudy: CLEAR Specific Capacity: Final Well Status: Water Supply Construction Method: Cable Tool Flowing (y/n): N Elevation (m): Elevation Reliability: Depth to Bedrock: 20 Overburden/Bedrock: Bedrock Water Type: SULPHUR Casing Material: STEEL, OPEN HOLE</p> <table border="1"> <thead> <tr> <th><u>Thickness</u></th> <th><u>Original Depth</u></th> <th><u>Material Colour</u></th> <th><u>Material</u></th> </tr> </thead> <tbody> <tr> <td>20 ft</td> <td>20 ft</td> <td>GREY</td> <td>HARDPAN, BOULDERS, HARD</td> </tr> <tr> <td>48 ft</td> <td>68 ft</td> <td>BLACK</td> <td>SHALE, SOFT</td> </tr> </tbody> </table>									<u>Thickness</u>	<u>Original Depth</u>	<u>Material Colour</u>	<u>Material</u>	20 ft	20 ft	GREY	HARDPAN, BOULDERS, HARD	48 ft	68 ft	BLACK	SHALE, SOFT
<u>Thickness</u>	<u>Original Depth</u>	<u>Material Colour</u>	<u>Material</u>																	
20 ft	20 ft	GREY	HARDPAN, BOULDERS, HARD																	
48 ft	68 ft	BLACK	SHALE, SOFT																	

Water Well Information System

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality																								
n/a		lot 30	1525483	030			OTTAWA-CARLETON	CUMBERLAND TOWNSHIP																								
<p>Easting Nad83: Northing Nad83: Zone: 18 Utm Reliability: unknown UTM Construction Date: 3/10/1991 Primary Water Use: Domestic Secondary Water Use: Well Depth: 225 ft Pump Rate: 6 GPM Static Water Level: 26 ft Flow Rate: Clear/Cloudy: Specific Capacity: Final Well Status: Water Supply Construction Method: Rotary (Air) Flowing (y/n): N Elevation (m): Elevation Reliability: Depth to Bedrock: 6 Overburden/Bedrock: Bedrock Water Type: FRESH Casing Material: STEEL</p> <table border="1"> <thead> <tr> <th><u>Thickness</u></th> <th><u>Original Depth</u></th> <th><u>Material Colour</u></th> <th><u>Material</u></th> </tr> </thead> <tbody> <tr> <td>6 ft</td> <td>6 ft</td> <td>BROWN</td> <td>STONES, CLAY</td> </tr> <tr> <td>16 ft</td> <td>22 ft</td> <td>BROWN</td> <td>SHALE, STONES, GRAVEL</td> </tr> <tr> <td>68 ft</td> <td>90 ft</td> <td>GREY</td> <td>LIMESTONE, ROCK</td> </tr> <tr> <td>15 ft</td> <td>105 ft</td> <td>BLACK</td> <td>LIMESTONE, SOFT</td> </tr> <tr> <td>120 ft</td> <td>225 ft</td> <td>GREY</td> <td>LIMESTONE</td> </tr> </tbody> </table>									<u>Thickness</u>	<u>Original Depth</u>	<u>Material Colour</u>	<u>Material</u>	6 ft	6 ft	BROWN	STONES, CLAY	16 ft	22 ft	BROWN	SHALE, STONES, GRAVEL	68 ft	90 ft	GREY	LIMESTONE, ROCK	15 ft	105 ft	BLACK	LIMESTONE, SOFT	120 ft	225 ft	GREY	LIMESTONE
<u>Thickness</u>	<u>Original Depth</u>	<u>Material Colour</u>	<u>Material</u>																													
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68 ft	90 ft	GREY	LIMESTONE, ROCK																													
15 ft	105 ft	BLACK	LIMESTONE, SOFT																													
120 ft	225 ft	GREY	LIMESTONE																													

Water Well Information System

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality								
n/a		lot 30 con 1	1529980	030	01	CON	OTTAWA-CARLETON	CUMBERLAND TOWNSHIP								
<p> Easting Nad83: Northing Nad83: Zone: 18 Utm Reliability: unknown UTM Construction Date: 12/5/1997 Primary Water Use: Secondary Water Use: Well Depth: 15 ft Pump Rate: Static Water Level: 4 ft Flow Rate: Clear/Cloudy: Specific Capacity: Final Well Status: Test Hole Construction Method: Other Method Flowing (y/n): N Elevation (m): Elevation Reliability: Depth to Bedrock: Overburden/Bedrock: Overburden Water Type: Casing Material: </p> <table border="1"> <thead> <tr> <th><u>Thickness</u></th> <th><u>Original Depth</u></th> <th><u>Material Colour</u></th> <th><u>Material</u></th> </tr> </thead> <tbody> <tr> <td>15 ft</td> <td>15 ft</td> <td>GREY</td> <td>CLAY, SOFT</td> </tr> </tbody> </table>									<u>Thickness</u>	<u>Original Depth</u>	<u>Material Colour</u>	<u>Material</u>	15 ft	15 ft	GREY	CLAY, SOFT
<u>Thickness</u>	<u>Original Depth</u>	<u>Material Colour</u>	<u>Material</u>													
15 ft	15 ft	GREY	CLAY, SOFT													

Water Well Information System

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality								
n/a		lot 30 con 1	1529981	030	01	CON	OTTAWA-CARLETON	CUMBERLAND TOWNSHIP								
<p> Easting Nad83: Northing Nad83: Zone: 18 Utm Reliability: unknown UTM Construction Date: 12/5/1997 Primary Water Use: Secondary Water Use: Well Depth: 15 ft Pump Rate: Static Water Level: 14 ft Flow Rate: Clear/Cloudy: Specific Capacity: Final Well Status: Test Hole Construction Method: Other Method Flowing (y/n): N Elevation (m): Elevation Reliability: Depth to Bedrock: Overburden/Bedrock: Overburden Water Type: Casing Material: </p> <table border="1"> <thead> <tr> <th><u>Thickness</u></th> <th><u>Original Depth</u></th> <th><u>Material Colour</u></th> <th><u>Material</u></th> </tr> </thead> <tbody> <tr> <td>15 ft</td> <td>15 ft</td> <td>GREY</td> <td>CLAY, SOFT</td> </tr> </tbody> </table>									<u>Thickness</u>	<u>Original Depth</u>	<u>Material Colour</u>	<u>Material</u>	15 ft	15 ft	GREY	CLAY, SOFT
<u>Thickness</u>	<u>Original Depth</u>	<u>Material Colour</u>	<u>Material</u>													
15 ft	15 ft	GREY	CLAY, SOFT													

Water Well Information System

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality								
n/a		lot 30 con 1	1529982	030	01	CON	OTTAWA-CARLETON	CUMBERLAND TOWNSHIP								
<p> Easting Nad83: Northing Nad83: Zone: 18 Utm Reliability: unknown UTM Construction Date: 12/5/1997 Primary Water Use: Secondary Water Use: Well Depth: 15 ft Pump Rate: Static Water Level: 4 ft Flow Rate: Clear/Cloudy: Specific Capacity: Final Well Status: Test Hole Construction Method: Other Method Flowing (y/n): N Elevation (m): Elevation Reliability: Depth to Bedrock: Overburden/Bedrock: Overburden Water Type: Casing Material: </p> <table border="1"> <thead> <tr> <th><u>Thickness</u></th> <th><u>Original Depth</u></th> <th><u>Material Colour</u></th> <th><u>Material</u></th> </tr> </thead> <tbody> <tr> <td>15 ft</td> <td>15 ft</td> <td>GREY</td> <td>CLAY, SOFT</td> </tr> </tbody> </table>									<u>Thickness</u>	<u>Original Depth</u>	<u>Material Colour</u>	<u>Material</u>	15 ft	15 ft	GREY	CLAY, SOFT
<u>Thickness</u>	<u>Original Depth</u>	<u>Material Colour</u>	<u>Material</u>													
15 ft	15 ft	GREY	CLAY, SOFT													

Water Well Information System

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality								
n/a		lot 30 con 1	1529983	030	01	CON	OTTAWA-CARLETON	CUMBERLAND TOWNSHIP								
<p> Easting Nad83: Northing Nad83: Zone: 18 Utm Reliability: unknown UTM Construction Date: 12/5/1997 Primary Water Use: Secondary Water Use: Well Depth: 17 ft Pump Rate: Static Water Level: 4 ft Flow Rate: Clear/Cloudy: Specific Capacity: Final Well Status: Test Hole Construction Method: Other Method Flowing (y/n): N Elevation (m): Elevation Reliability: Depth to Bedrock: Overburden/Bedrock: Overburden Water Type: Casing Material: </p> <table border="1"> <thead> <tr> <th><u>Thickness</u></th> <th><u>Original Depth</u></th> <th><u>Material Colour</u></th> <th><u>Material</u></th> </tr> </thead> <tbody> <tr> <td>17 ft</td> <td>17 ft</td> <td>GREY</td> <td>CLAY, SOFT</td> </tr> </tbody> </table>									<u>Thickness</u>	<u>Original Depth</u>	<u>Material Colour</u>	<u>Material</u>	17 ft	17 ft	GREY	CLAY, SOFT
<u>Thickness</u>	<u>Original Depth</u>	<u>Material Colour</u>	<u>Material</u>													
17 ft	17 ft	GREY	CLAY, SOFT													

Water Well Information System

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality																				
n/a		lot 30	1533587	030			OTTAWA-CARLETON	CUMBERLAND TOWNSHIP																				
<p>Easting Nad83: Northing Nad83: Zone: 18 Utm Reliability: unknown UTM Construction Date: 3/20/2003 Primary Water Use: Domestic Secondary Water Use: Well Depth: 160 ft Pump Rate: 6 GPM Static Water Level: 8 ft Flow Rate: Clear/Cloudy: CLOUDY Specific Capacity: Final Well Status: Water Supply Construction Method: Air Percussion Flowing (y/n): N Elevation (m): Elevation Reliability: Depth to Bedrock: Overburden/Bedrock: Overburden Water Type: FRESH Casing Material: STEEL, STEEL</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Thickness</u></th> <th style="text-align: left;"><u>Original Depth</u></th> <th style="text-align: left;"><u>Material Colour</u></th> <th style="text-align: left;"><u>Material</u></th> </tr> </thead> <tbody> <tr> <td>20 ft</td> <td>20 ft</td> <td>BROWN</td> <td>SAND, SILT, LAYERED</td> </tr> <tr> <td>78 ft</td> <td>98 ft</td> <td>BLUE</td> <td>CLAY, SOFT</td> </tr> <tr> <td>42 ft</td> <td>140 ft</td> <td>GREY</td> <td>SAND, GRAVEL, LOOSE</td> </tr> <tr> <td>20 ft</td> <td>160 ft</td> <td>BROWN</td> <td>CLAY, PACKED</td> </tr> </tbody> </table>									<u>Thickness</u>	<u>Original Depth</u>	<u>Material Colour</u>	<u>Material</u>	20 ft	20 ft	BROWN	SAND, SILT, LAYERED	78 ft	98 ft	BLUE	CLAY, SOFT	42 ft	140 ft	GREY	SAND, GRAVEL, LOOSE	20 ft	160 ft	BROWN	CLAY, PACKED
<u>Thickness</u>	<u>Original Depth</u>	<u>Material Colour</u>	<u>Material</u>																									
20 ft	20 ft	BROWN	SAND, SILT, LAYERED																									
78 ft	98 ft	BLUE	CLAY, SOFT																									
42 ft	140 ft	GREY	SAND, GRAVEL, LOOSE																									
20 ft	160 ft	BROWN	CLAY, PACKED																									

Water Well Information System

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality				
n/a		TRIM RD OTTAWA	1536378				OTTAWA-CARLETON					
<p> Easting Nad83: Northing Nad83: Zone: Utm Reliability: unknown UTM Construction Date: 5/2/2006 Primary Water Use: Secondary Water Use: Well Depth: Pump Rate: Static Water Level: Flow Rate: Clear/Cloudy: Specific Capacity: Final Well Status: Construction Method: Other Method Flowing (y/n): Elevation (m): Elevation Reliability: Depth to Bedrock: Overburden/Bedrock: No formation data Water Type: Casing Material: </p> <table border="0"> <thead> <tr> <th><u>Thickness</u></th> <th><u>Original Depth</u></th> <th><u>Material Colour</u></th> <th><u>Material</u></th> </tr> </thead> </table>									<u>Thickness</u>	<u>Original Depth</u>	<u>Material Colour</u>	<u>Material</u>
<u>Thickness</u>	<u>Original Depth</u>	<u>Material Colour</u>	<u>Material</u>									

Appendix: Ontario Database Descriptions

EcoLog Environmental Risk Information Services Ltd can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to EcoLog ERIS at the time of update. **Note:** Databases denoted with "*" indicates that the database will no longer be updated. See the individual database descriptions for more information.

Provincial Government Source Databases:

Abandoned Aggregate Inventory Up to Sept 2002

AAGR

The MAAP Program maintains a database of all abandoned pits and quarries. Please note that the database is only referenced by lot and concession and city/town location. The database provides information regarding the location, type, size, land use, status and general comments.

Aggregate Inventory Up to Jun 2011

AGR

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

Abandoned Mines Information System 1800-Jan 2012

AMIS

The Abandoned Mines Information System contains data on known abandoned and inactive mines located on both Crown and privately held lands. The information was provided by the Ministry of Northern Development and Mines (MNDM), with the following disclaimer: "the database provided has been compiled from various sources, and the Ministry of Northern Development and Mines makes no representation and takes no responsibility that such information is accurate, current or complete". Reported information includes official mine name, status, background information, mine start/end date, primary commodity, mine features, hazards and remediation.

Borehole 1875-Aug 2011

BORE

A borehole is the generalized term for any narrow shaft drilled in the ground, either vertically or horizontally. The information here includes geotechnical investigations or environmental site assessments, mineral exploration, or as a pilot hole for installing piers or underground utilities. Information is from many sources such as the Ministry of Transportation (MTO) boreholes from engineering reports and projects from the 1950 to 1990's in Southern Ontario. Boreholes from the Ontario Geological Survey (OGS) including The Urban Geology Analysis Information System (UGAIS) and the York Peel Durham Toronto (YPDT) database of the Conservation Authority Moraine Coalition. This database will include fields such as location, stratigraphy, depth, elevation, year drilled, etc.

For all water well data or oil and gas well data for Ontario please refer to WWIS and OOGW.

Certificates of Approval 1985-Oct 30, 2011*

CA

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

TSSA Commercial Fuel Oil Tanks 1948-Aug 2011

CFOT

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

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

COAL

This inventory includes both the “Inventory of Coal Gasification Plant Waste Sites in Ontario-April 1987” and the “Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario-November 1988) collected by the MOE. It identifies industrial sites that produced and continue to produce or use coal tar and other related tars. Detailed information is available and includes: facility type, size, land use, information on adjoining properties, soil condition, site operators/occupants, site description, potential environmental impacts and historic maps available. This was a one-time inventory.*

Compliance and Convictions 1989-June 2012

CONV

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

Certificates of Property Use 1994-June 2012

CPU

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

Drill Holes 1886-Oct 2011

DRL

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

Environmental Activity and Sector Registry Oct 31, 2011-June 2012

EASR

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

Environmental Registry 1994-June 2012

EBR

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

Environmental Compliance Approval Oct 31, 2011-June 2012

ECA

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. In the past, a business had to apply for multiple approvals (known as certificates of approval) for individual processes and pieces of equipment. Today, a business either registers itself, or applies for a single approval, depending on the types of activities it conducts. Businesses whose activities aren't subject to the EASR may apply for an ECA. A single ECA addresses all of a business's emissions, discharges and wastes. Separate approvals for air, noise and waste are no longer required. This database will also include Renewable Energy Approvals. For CofA's prior to Nov 1st, 2011, please refer to the CA database. For all Waste Disposal Sites please refer to the WDS database.

List of TSSA Expired Facilities Current to Feb 2012

EXP

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

TSSA Fuel Storage Tanks Current to Jun 2011

FST

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

Ontario Regulation 347 Waste Generators Summary 1986-Apr 2012

GEN

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

TSSA Historic Incidents 2006-June 2009

HINC

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

TSSA Incidents June 2009-Mar 2012

INC

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

Landfill Inventory Management Ontario 2010

LIMO

The Landfill Inventory Management Ontario (LIMO) database is updated every year, as the ministry compiles new and updated information. The inventory will include small and large landfills. Additionally, each year the ministry will request operators of the larger landfills complete a landfill data collection form that will be used to update LIMO and will include the following information from the previous operating year. This will include additional information such as estimated amount of total waste received, landfill capacity, estimated total remaining landfill capacity, fill rates, engineering designs, reporting and monitoring details, size of location, service area, approved waste types, leachate of site treatment, contaminant attenuation zone and more. The small landfills will include information such as site owner, site location and certificate of approval # and status.

Mineral Occurrences 1846-Nov 2011

MNR

In the early 70's, the Ministry of Northern Development and Mines created an inventory of approximately 19,000 mineral occurrences in Ontario, in regard to metallic and industrial minerals, as well as some information on building stones and aggregate deposits. Please note that the "Horizontal Positional Accuracy" is approximately +/- 200 m. Many reference elements for each record were derived from field sketches using pace or chain/tape measurements against claim posts or topographic features in the area. The primary limiting factor for the level of positional accuracy is the scale of the source material. The testing of horizontal accuracy of the source materials was accomplished by comparing the planimetric (X and Y) coordinates of that point with the coordinates of the same point as defined from a source of higher accuracy.

Non-Compliance Reports 1992(water only), 1994-2010

NCPL

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

Ontario Oil and Gas Wells 1800-Feb 2012

OOGW

In 1998, the MNR handed over to the Ontario Oil, Gas and Salt Resources Corporation, the responsibility of maintaining a database of oil and gas wells drilled in Ontario. The OGSR Library has over 20,000+ wells in their database. Information available for all wells in the ERIS database include well owner/operator, location, permit issue date, well cap date, licence no., status, depth and the primary target (rock unit) of the well being drilled. All geology/stratigraphy table information, plus all water table information is also provide for each well record.

Ontario Inventory of PCB Storage Sites 1987-Oct 2004

OPCB

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of PCB storage sites within the province. Ontario Regulation 11/82 (Waste Management - PCB) and Regulation 347 (Generator Waste Management) under the Ontario EPA requires the registration of inactive PCB storage equipment and/or disposal sites of PCB waste with the Ontario Ministry of Environment. This database contains information on: 1) waste quantities; 2) major and minor sites storing liquid or solid waste; and 3) a waste storage inventory.

Orders 1994-June 2012

ORD

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all Orders on the registry such as (EPA s. 17) - Order for remedial work, (EPA s. 18) - Order for preventative measures, (EPA s. 43) - Order for removal of waste and restoration of site, (EPA s. 44) - Order for conformity with Act for waste disposal sites, (EPA s. 136) - Order for performance of environmental measures.

Pesticide Register 1988-Mar 2011

PES

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

TSSA Pipeline Incidents June 2009-Mar 2012

PINC

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

Private and Retail Fuel Storage Tanks 1989-1996*

PRT

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks and licensed retail fuel outlets. This database includes an inventory of locations that have gasoline, oil, waste oil, natural gas and/or propane storage tanks on their property. The MCCR no longer collects this information. This information is now collected by the Technical Standards and Safety Authority (TSSA).

Permit to Take Water 1994-June 2012

PTTW

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all PTTW's on the registry such as OWRA s. 34 - Permit to take water.

Ontario Regulation 347 Waste Receivers Summary 1986-2009

REC

Part V of the Ontario Environmental Protection Act ("EPA") regulates the disposal of regulated waste through an operating waste management system or a waste disposal site operated or used pursuant to the terms and conditions of a Certificate of Approval or a Provisional Certificate of Approval. Regulation 347 of the Ontario EPA defines a waste receiving site as any site or facility to which waste is transferred by a waste carrier. A receiver of regulated waste is required to register the waste receiving facility. This database represents registered receivers of regulated wastes, identified by registration number, company name and address, and includes receivers of waste such as: landfills, incinerators, transfer stations, PCB storage sites, sludge farms and water pollution control plants. This information is a summary of all years from 1986 including the most currently available data.

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

RSC

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

Ontario Spills 1988-2011

SPL

This database identifies information such as location (approximate), type and quantity of contaminant, date of spill, environmental impact, cause, nature of impact, etc. Information from 1988-2002 was part of the ORIS (Occurrence Reporting Information System). The SAC (Spills Action Centre) handles all spills reported in Ontario. Regulations for spills in Ontario are part of the MOE's Environmental Protection Act, Part X.

Wastewater Discharger Registration Database 1990-2011

SRDS

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

TSSA Variances for Abandonment of Underground Storage Tanks Current to October 2011 VAR

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

Waste Disposal Sites - MOE CA Inventory 1970-June 2012 WDS

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of known open (active or inactive) and closed disposal sites in the Province of Ontario. Active sites maintain a Certificate of Approval, are approved to receive and are receiving waste. Inactive sites maintain Certificate(s) of Approval but are not receiving waste. Closed sites are not receiving waste. The data contained within this database was compiled from the MOE's Certificate of Approval database. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number. All new Environmental Compliance Approvals handed out after Oct 31, 2011 for Waste Disposal Sites will still be found in this database.

Waste Disposal Sites - MOE 1991 Historical Approval Inventory Up to Oct 1990* WDSH

In June 1991, the Ontario Ministry of Environment, Waste Management Branch, published the "June 1991 Waste Disposal Site Inventory", of all known active and closed waste disposal sites as of October 30st, 1990. For each "active" site as of October 31st 1990, information is provided on site location, site/CA number, waste type, site status and site classification. For each "closed" site as of October 31st 1990, information is provided on site location, site/CA number, closure date and site classification. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number.

Water Well Information System 1955-2011 WWIS

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

Federal Government Source Databases: Diagram Identifier:

Environmental Effects Monitoring 1992-2007* EEM

The Environmental Effects Monitoring program assesses the effects of effluent from industrial or other sources on fish, fish habitat and human usage of fisheries resources. Since 1992, pulp and paper mills have been required to conduct EEM studies under the Pulp and Paper Effluent Regulations. This database provides information on the mill name, geographical location and sub-lethal toxicity data.

Environmental Issues Inventory System 1992-2001* EIIS

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

Federal Convictions 1988-Jun 2007 FCON

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

Contaminated Sites on Federal Land June 2000-May 2012

FCS

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

Fisheries & Oceans Fuel Tanks 1964-Sept 2003

FOFT

Fisheries & Oceans Canada maintains an inventory of all aboveground & underground fuel storage tanks located on Fisheries & Oceans property or controlled by DFO. Our inventory provides information on the site name, location, tank owner, tank operator, facility type, storage tank location, tank contents & capacity, and date of tank installation.

Indian & Northern Affairs Fuel Tanks 1950-Aug 2003

IAFT

The Department of Indian & Northern Affairs Canada (INAC) maintains an inventory of all aboveground & underground fuel storage tanks located on both federal and crown land. Our inventory provides information on the reserve name, location, facility type, site/facility name, tank type, material & ID number, tank contents & capacity, and date of tank installation.

National Analysis of Trends in Emergencies System (NATES) 1974-1994*

NATE

In 1974 Environment Canada established the National Analysis of Trends in Emergencies System (NATES) database, for the voluntary reporting of significant spill incidents. The data was to be used to assist in directing the work of the emergencies program. NATES ran from 1974 to 1994. Extensive information is available within this database including company names, place where the spill occurred, date of spill, cause, reason and source of spill, damage incurred, and amount, concentration, and volume of materials released.

National Defence & Canadian Forces Fuel Tanks Up to May 2001*

NDFT

The Department of National Defence and the Canadian Forces maintains an inventory of all aboveground & underground fuel storage tanks located on DND lands. Our inventory provides information on the base name, location, tank type & capacity, tank contents, tank class, date of tank installation, date tank last used, and status of tank as of May 2001. This database will no longer be updated due to the new National Security protocols which have prohibited any release of this database.

National Defence & Canadian Forces Spills Mar 1999-Aug 2010

NDSP

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

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

NDWD

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

National Environmental Emergencies System (NEES) 1974-2003

NEES

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

National PCB Inventory 1988-2008

NPCB

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

National Pollutant Release Inventory 1993-2010

NPRI

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

Parks Canada Fuel Storage Tanks 1920-Jan 2005

PCFT

Canadian Heritage maintains an inventory of all known fuel storage tanks operated by Parks Canada, in both National Parks and at National Historic Sites. The database details information on site name, location, tank install/removal date, capacity, fuel type, facility type, tank design and owner/operator.

Transport Canada Fuel Storage Tanks 1970-March 2007

TCFT

With the provinces of BC, MB, NB, NF, ON, PE, and QC; Transport Canada currently owns and operates 90 fuel storage tanks. This inventory will also include The Pickering Lands, which refers to the 7,530 hectares (18,600 acres) of land in Pickering, Markham and Uxbridge - owned by the Government of Canada since 1972. Properties on this land has been leased by the government since 1975, falls under the Site Management Policy of Transport Canada, but administered by Public Works and Government Services Canada. Our inventory provides information on the site name, location, tank age, capacity and fuel type.

Private Source Databases:

Anderson's Waste Disposal Sites 1860s-Present

ANDR

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

Automobile Wrecking & Supplies 2001-Jun 2010

AUWR

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

Chemical Register 1992, 1999-Jun 2010

CHEM

This database includes information from both a one time study conducted in 1992 and private source and is a listing of facilities that manufacture or distribute chemicals. The production of these chemical substances may involve one or more chemical reactions and/or chemical separation processes (i.e. fractionation, solvent extraction, crystallization, etc.).

ERIS Historical Searches 1999-Apr 2012

EHS

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

Canadian Mine Locations 1998-2009

MINE

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

Oil and Gas Wells Oct 2001-Mar 2012

OGW

The Nickle's Energy Group (publisher of the Daily Oil Bulletin) collects information on drilling activity including operator and well statistics. The well information database includes name, location, class, status and depth. The main Nickles' database is updated on a daily basis, however, this database is updated on a monthly basis. More information is available at www.nickles.com.

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

PAP

This information is part of the Pulp and Paper Canada Directory. The Directory provides a comprehensive listing of the locations of pulp and paper mills and the products that they produce.

Retail Fuel Storage Tanks 2000-Jun 2010

RST

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

Scott's Manufacturing Directory 1992-Mar 2011

SCT

Scott's Directories is a data bank containing information on over 70,000 manufacturers in Ontario. Even though Scott's listings are voluntary, it is the most comprehensive database of Ontario manufacturers available. Information concerning a company's address, plant size, and main products are included in this database. This database begins with 1992 information and is updated annually.

Anderson's Storage Tanks 1915-1953*

TANK

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

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