Geotechnical Engineering

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Phase I-Environmental Site Assessment

25 Fair Oaks Crescent Ottawa, Ontario

Prepared For

Laaylar Ld.

Paterson Group Inc.

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Report: PE5743-1



TABLE OF CONTENTS

EXEC	UTIVE	SUMMARY	.ii			
1.0	0 INTRODUCTION1					
2.0	PHAS	HASE I PROPERTY INFORMATION				
3.0	3.0 SCOPE OF INVESTIGATION					
4.0	RECORDS REVIEW					
	4.1	General	4			
	4.2	Environmental Source Information	4			
	4.3	Physical Setting Sources	7			
5.0		?VIEWS				
6.0	SITE	RECONNAISSANCE1	0			
	6.1	General Requirements1	0			
	6.2	Specific Observations at the Phase I Property1	0			
7.0	REVIE	W AND EVALUATION OF INFORMATION1	2			
	7.1	Land Use History1	2			
	7.2	Conceptual Site Model1	3			
8.0	CONC	LUSIONS 1	5			
	8.1	Assessment1	5			
		Recommendations1				
9.0 STATEMENT OF LIMITATIONS			7			
10.0	REFE	REFERENCES18				
List o	f Figu	res				
Figure Drawi	2 - Tong PE	ey Plan opographic Map 5743-1 - Site Plan 5743-2 - Surrounding Land Use Plan				
List o	f Appe	endices				
Appendix 1		Survey Plan Aerial Photograph Site Photographs				
Appendix 2		MECP Freedom of Information MECP Well Records TSSA Correspondence HLUI Response ERIS Report				

Appendix 3 Qualifications of Assessors



EXECUTIVE SUMMARY

Assessment

Paterson Group was retained by Laaylar Ltd. to conduct a Phase I-Environmental Site Assessment (ESA) for the property addressed 25 Fair Oaks Crescent, in the City of Ottawa, Ontario. The purpose of this Phase I-ESA was to research the past and current use of the Phase I Property and the Phase I Study Area and to identify any environmental concerns with the potential to have impacted the Phase I Property.

According to the historical research, the Phase I Property was agricultural fields until it was developed with the present-day single-family dwelling in 1985. The Phase I Property has been used for residential purposes since. No potential concerns were identified with the historical use of the subject land.

Historically, the surrounding lands were used for agricultural purposes with a railway line located to the north of the subject land. The surrounding lands were developed around the same time as the Phase I Property for residential purposes. With the exception of the railway line, there were no other potentially contaminating activities (PCAs) identified with the historical use of the surrounding lands.

Following the historical research, an inspection of the Phase I Property and neighbouring lands was conducted to assess any potential environmental concerns. The Phase I Property is currently occupied by a two-storey single-family dwelling with an attached garage. No PCAs were identified with the current use of the Phase I Property. The surrounding lands consisted primarily of residential properties. No PCAs that would result in areas of potential environmental concern (APECs) were identified with the current use of the surrounding lands.

Based on the findings of our assessment, it is **our opinion that a Phase II-Environmental Site Assessment is not required for the Phase I Property.**

Recommendations

Based on the age of the building, potential asbestos containing materials (ACMs) may be present within the structure, including drywall joint compound, ceiling stipple, suspended ceiling tiles and linoleum flooring. Lead based-paints may also be potentially present within the structure.

It is our understanding that the subject building will be demolished for redevelopment. Prior to the demolition of the subject building, a designated substance survey (DSS) must be conducted in accordance with Ontario Regulation 490/09 under the Occupational Health and Safety Act.



1.0 INTRODUCTION

At the request of Laaylar Ltd., Paterson Group (Paterson) conducted a Phase I-Environmental Site Assessment (Phase I-ESA) for 25 Fair Oaks Crescent, in the City of Ottawa, Ontario, herein referred to as the Phase I Property. The purpose of this Phase I-ESA was to research the past and current use of the Phase I Property and properties within the Phase I Study Area to identify any potentially contaminating activities (PCAs) that would result in areas of potential environmental concern (APECs) on the Phase I Property.

Paterson was engaged to conduct this Phase I-ESA by Mr. Rizak Abdullahi, with Laaylar Ltd. Mr. Abdullahi can be reached by telephone at (613) 823-1616.

This report has been prepared specifically and solely for the above noted project which is described herein. It contains all of our findings and results of the environmental conditions at this site.

This Phase I-ESA report has been prepared under the supervision of a Qualified Person, in general accordance with Ontario Regulation (O.Reg.) 153/04, as amended under the Environmental Protection Act, and CSA Z768-01 (reaffirmed 2016). The conclusions presented herein are based on information gathered from a limited historical review and field inspection program. The findings of the Phase I-ESA are based on a review of readily available geological, historical and regulatory information and a cursory review made at the time of the field assessment. The historical research relies on information supplied by others, such as, local, provincial and federal agencies and was limited within the scope-of-work, time and budget of the project herein.



2.0 PHASE I PROPERTY INFORMATION

Address: 25 Fair Oaks Crescent, Ottawa, Ontario

Legal Description: Part of Lot 17, Part 1 of Registered Plan 4M-487, in the

City of Ottawa, Ontario.

PIN: 04656-0190

Location: The Phase I Property is located on the south side of

Fair Oaks Crescent, approximately 95 m north of Sovereign Avenue, Ottawa, Ontario. Refer to Figure 1 -

Key Plan in Appendix 1 for the site location.

Latitude and Longitude: 45° 20' 8.67" N, 75° 45' 25.22" W

Site Description:

Configuration: Irregular

Area: 520 m² (approximately)

Zoning: R3Z – Residential Zone

Current Use: The Phase I Property is currently occupied by a two-

storey residential dwelling,

Services: The Phase I Property is situated in a municipally

serviced area.



3.0 SCOPE OF INVESTIGATION

e scope of work for this Phase I – Environmental Site Assessment was as lows:
Determine the historical activities on the Phase I Property and study area by conducting a review of readily available records, reports, photographs, plans, mapping, databases, and regulatory agencies;
Investigate the existing conditions present at the Phase I Property and study area by conducting site reconnaissance;
Conduct interviews with persons knowledgeable of current and historic operations on the Phase I Property, and if warranted, neighbouring properties;
Present the results of our findings in a comprehensive report in general accordance with the requirements O.Reg. 153/04 as amended under the Environmental Protection Act and in compliance with the requirements of CSA Z768-01;
Provide a preliminary environmental site evaluation based on our findings;
Provide preliminary remediation recommendations and further investigative work if contamination is suspected or encountered.



4.0 RECORDS REVIEW

4.1 General

Phase I-ESA Study Area Determination

A radius of approximately 250 m was determined to be appropriate as a Phase I Study Area for this assignment. Properties outside the 250 m radius are not considered to have impacted the Phase I Property based on their significant separation distance.

First Developed Use Determination

Based on the review of aerial photographs in combination with an interview with the current landowner, the Phase I Property existed as undeveloped vacant land used as agricultural fields until it was developed with the present-day residential dwelling in 1985.

Fire Insurance Plans

The Phase I Property and properties within the Phase I study area are not covered in the Fire Insurance Plans.

City of Ottawa Directories

City directories at the National Archives were reviewed from 1980 to 2011. The Phase I Property and surrounding lands were only listed in the 1990 and 2010 city directories. The Phase I Property as well as lands in the study area were all listed under private individuals. No off-site PCAs were identified on properties within the study area.

Plan of Survey

A survey plan prepared by Stantec Geomatics Ltd., dated December 2, 2021 was reviewed as part of this assessment. The Phase I Property is depicted in the plan in its current configuration. A copy of the survey plan is provided in Appendix 1.

4.2 Environmental Source Information

Environment Canada

A search of the National Pollutant Release Inventory (NPRI) was conducted electronically on May 10, 2022. No records were found in the NPRI database for properties within the Phase I Study Area.



PCB Inventory

A search of provincial PCB waste storage sites was conducted. No PCB waste storage sites were reported within the Phase I Study Area.

Areas of Natural Significance

A search for areas of natural significance and features within the Phase I Study Area was conducted on the website of the Ontario Ministry of Natural Resources (MNR) on May 10, 2022. The search did not reveal any areas of natural significance within the Phase I Study Area.

Ministry of the Environment, Conservation and Parks (MECP) Instruments

A request was submitted to the MECP Freedom of Information (FOI) office for information with respect to certificates of approval, permits to take water, certificates of property use or any other similar MECP issued instruments for the site. A response from the MECP had not been received at the time of preparing this report. Paterson will notify the client of any environmental concerns noted in future correspondence from the MECP. A copy of the MECP FOI request is appended to this report.

MECP Submissions

A request was submitted to the MECP FOI office for information with respect to reports related to environmental conditions for the properties. A response from the MECP had not been received at the time of preparing this report. Paterson will notify the client of any environmental concerns noted in future correspondence from the MECP. A copy of the MECP FOI request is appended to this report.

MECP Incident Reports

A request was submitted to the MECP FOI office for information with respect to records concerning environmental incidents, orders, offences, spills, discharges of contaminants or inspections maintained by the MECP for the site or adjacent properties. A response from the MECP had not been received at the time of preparing this report. Paterson will notify the client of any environmental concerns noted in future correspondence from the MECP. A copy of the MECP FOI request is appended to this report.



MECP Waste Management Records

A request was submitted to the MECP FOI office for information with respect to waste management records. A response from the MECP had not been received at the time of preparing this report. Paterson will notify the client of any environmental concerns noted in future correspondence from the MECP. A copy of the MECP FOI request is appended to this report.

MECP Coal Gasification Plant Inventory

The Ontario Ministry of Environment document titled "Municipal Coal Gasification Plant Site Inventory, 1991" was reviewed to reference the locations of former plants with respect to the site. No Municipal Coal Gasification Plant Sites are located within the Phase I Study Area.

MECP Brownfields Environmental Site Registry (ESR)

A search of the MECP Brownfields Environmental Site Registry (ESR) was conducted as part of this assessment for the site, neighbouring properties, and the general area of the site. No Records of Site Condition (RSCs) were filed for properties within the Phase I study area.

MECP Waste Disposal Site Inventory

The Ontario Ministry of Environment document titled "Waste Disposal Site Inventory in Ontario, 1991" was reviewed as part of the historical research. This document includes all recorded active and closed waste disposal sites, industrial manufactured gas plants and coal tar distillation plants in the Province of Ontario. No former waste disposal sites were identified on properties within the Phase I Study Area.

Technical Standards and Safety Authority (TSSA)

The TSSA, Fuels Safety Branch in Toronto, was contacted on May 14, 2022 to inquire about current and former underground/aboveground storage tanks, spills and incidents for the Phase I Property and neighbouring properties. No records were found for the Phase I Property or neighbouring properties. A copy of the TSSA correspondence and ERIS report are provided in Appendix 2.

City of Ottawa Landfill Document

The document entitled "Old Landfill Management Strategy, Phase I – Identification of Sites, City of Ottawa", was reviewed. No former landfill sites were identified within 250m of the Phase I Property.



City of Ottawa Historical Land Use Inventory (HLUI)

A requisition form was sent to the City of Ottawa to request information from the City's Historical Land Use Inventory (HLUI) database for the Phase I Property and properties within a 250 m search area. A response from the city had not been received at the time of preparing this report. Paterson will notify the client of any environmental concerns noted in future correspondence from the city. A copy of the HLUI application is appended to this report.

Environmental Risk Information Services (ERIS) Report

An ERIS (Environmental Risk Information Service) Search Report was obtained for the properties within the Phase I Study Area.

According to the ERIS report, no records were identified for the Phase I Property. The ERIS report identified several records within the study area; however, based on the review of theses records, the PCAs that were identified in the report were more than 200 m away from the Phase I Property and as such, there are no APECs on the Phase I Property. A copy of the ERIS report is provided in the Appendix 2.

4.3 Physical Setting Sources

Aerial Photographs

Historical air photos from the National Air Photo Library were reviewed in approximate ten (10) year intervals. Based on the review, the following observations have been made:

1945	The Phase I Property exists as part of an agricultural field at this time. The CN railway tracks can be seen to the north. The surrounding lands appear as agricultural fields as well.		
1952	The Phase I Property and surrounding lands appear unchanged from the previous aerial image.		
1965	No significant changes are apparent on the Phase I Property and neighbouring lands. Lands further northeast and south are occupied with residential developments.		
1976	The Phase I Property and surrounding lands appear unchanged from the previous aerial image.		
1983	No significant changes are apparent on the Phase I Property. Neighbouring lands to the east and west are occupied by a residential development.		



1991	The Phase I Property is occupied by the present-day residential dwelling. The surrounding lands are developed with residences at this time.
2005	No significant changes are apparent on the Phase I Property or the surrounding lands.
2019	The Phase I Property and surrounding lands appear unchanged from the previous aerial image.

As seen in the aerial images, the CN railway tracks to the neighbouring north, approximately 55m away from the Phase I Property, represents a potentially contaminating activity (PCA). However, based on the distance with respect to the subject land and lack of ancillary activities, the railway tracks are not considered to result in an area of potential environmental concern (APEC) on the Phase I Property.

Copies of selected aerial photographs reviewed are included in Appendix 1.

Physiographic Maps

The Ontario Geological Survey publication 'The Physiography of Southern Ontario, Third Edition' was reviewed as a part of this assessment. According to the publication, the Phase I Property is situated within the Ottawa Clay Plain physiographic region.

Topographic Maps

Topographic maps were obtained from Natural Resources Canada – The Atlas of Canada website and from the City of Ottawa website. The topographic maps indicate that the regional topography in the general area of the Phase I Property slopes down in a northwesterly/northerly direction towards the Ottawa River. An illustration of the referenced topographic map is presented on Figure 2 – Topographic Map, appended to this report.

Geological Maps

The Geological Survey of Canada website on the Urban Geology of the National Capital Area was consulted as part of this assessment. Based on the information from NRCAN, the Phase I Property is situated in an area where bedrock consists of interbedded sandstone and dolomite of the March Formation. The surficial geology consists of till with a drift thickness on the order of 5 to 15 m.



Water Well Records

A search of the MECPs website for all drilled well records within 250m of the Phase I Property was conducted. Based on the online mapping search results, no well records were identified on the Phase I Property.

A total of 8 well records were identified within the Phase I Study Area, 5 of which were monitoring wells, 1 abandoned well, and 2 domestic wells. The monitoring wells were drilled on properties more than 200m away from the Phase I Property. The monitoring wells and the abandonment well were associated with the residential developments in the surrounding area and the City's sanitary sewer expansion along Woodroffe Avenue and Knoxdale Road.

The domestic wells were drilled in the immediate vicinity of the Phase I Property in 1958 and 1981 to an approximate depth of 40m below the ground surface (mbgs). Based on these well records, the stratigraphy in the area consists of sandy clay, followed by sand, underlain by limestone and sandstone. Bedrock was encountered at approximately 22.5mbgs. No other pertinent information was identified during the review of these well records. A copy of the well records has been included in Appendix 2.

Areas of Natural Significance

No areas of natural significance are present on the Phase I Property or within the Phase I Study Area.

Water Bodies

No natural waterbodies are present on the Phase I Property or within the Phase I Study Area.

5.0 INTERVIEWS

Property Owner

As part of this assessment, Mr. Rizak Abdullahi of Laaylar Ltd., the property owner, was interviewed via email. The Laaylar purchased the Phase I Property in 1992. The single-family dwelling has been tenant occupied since the late-1980s.

According to Mr. Abdullahi, the present-day residential dwelling was constructed in 1985. Prior to that, the land was used for agricultural purposes (fields). Mr. Abdullahi is not aware of any potential environmental concerns.



Any other pertinent information obtained during the interview has been included in the relevant sections of this report.

6.0 SITE RECONNAISSANCE

6.1 General Requirements

A site visit was conducted on May 19, 2022, by Ms. Mandy Witteman from the Environmental Department of Paterson Group. Weather conditions were overcast with a temperature of approximately 9° C. In addition to the site, the uses of neighbouring properties within the Phase I Study Area were also assessed at the time of the site visit.

6.2 Specific Observations at the Phase I Property

Existing Buildings and Structures

The Phase I Property is occupied by a two (2) storey single family dwelling with an attached garage and a basement level. The residence was constructed in 1985 with a poured concrete foundation. The exterior is finished in brick and vinyl siding with a sloped shingle style roof. The residential dwelling has always been heated by natural gas.

The northern and western portions of the back yard are sectioned off by a wooden fence. No other structures are present on-site.

Site Features

The Phase I Property is situated in a residential area with Fair Oaks Crescent bordering the western and northern perimeter of the property.

The subject land is relatively flat and at the grade of Fair Oaks Crescent and the neighbouring property to the east. The majority of the site is landscaped with an asphaltic paved laneway fronting the Fair Oaks Crescent from the eastern side of the property.

Site drainage consists of infiltration on the landscaped areas and sheet flow on the asphalt paved concrete areas to catch basins on Fair Oaks Crescent. No ponding of water or signs of surficial staining were observed at the time of the site visit.

No above ground storage tanks (ASTs) or signs of underground storage tanks (USTs) were observed on the exterior of the subject property at the time of the site visit. No hazardous chemicals or spills were observed at the time of the site visit.



Solid, non-hazardous domestic waste and recyclables are stored on the eastern side of the Phase I Property and collected regularly by the City of Ottawa. No concerns were identified with respect to waste management practices at the Phase I Property.

No evidence of current or former railway line or spur lines was observed on the Phase I Property at the time of the site visit. No PCAs were identified with the current use of the Phase I Property.

Interior Assessment

A general description of the interior is as follows:

The floors throughout the building consisted of laminate and hardwood flooring, linoleum flooring, carpet and poured concrete (basement);
The walls throughout the building consisted of drywall and plaster and concrete (basement);
The ceilings throughout the building consisted of ceiling stipple, decorative plaster and suspended ceiling tiles;
Lighting throughout the building was provided by incandescent fixtures.

No storage tanks were identified on the Phase I Property. No indications of former oil tanks, leaks or spills were noted during the site visit. Floor drains were noted in the basement of the dwelling, which drain to the municipal sewer system. No sumps or pits were observed. There were no unidentified substances on the interior of the Phase I Property at the time of this assessment. No potential environmental concerns were noted inside the subject building.

Potentially Hazardous Building Products

Based on the age of the building, potential asbestos containing-materials (ACMs) may be present within the dwelling, including drywall joint compound, ceiling stipple, suspended ceiling tiles and linoleum flooring.

Lead-based paints may potentially be present within the subject building. Based on the visual inspection of the subject property, no PCBs are suspected to be present.



Subsurface Services and Utilities

With the exception of the basement level of the residential dwelling and underground utilities, there are no other subsurface structures on the Phase I Property. Underground utilities enter the Phase I Property from Fair Oaks Crescent.

Neighbouring Properties

An inspection of the neighbouring properties was conducted from publicly accessible roadways at the time of the site inspection. Land use adjacent to the Phase I Property is as follows:

North –Fair Oaks Crescent, followed by residential dwellings;
South – Residential dwellings;
East - Fair Oaks Crescent, followed by residential dwellings; and
West – Residential dwellings, followed by Fair Oaks Crescent.

Land use within the Phase I Study Area (250 m radius) consists of residential properties. No off-site PCAs were identified at the time of the site visit, with the exception of the railway tracks, approximately 55 m north of the site. However, based on the separation distance, this railway line is not considered to pose a risk to the Phase I Property. Surrounding land use is shown on Drawing PE5743-2 – Surrounding Land Use Plan.

7.0 REVIEW AND EVALUATION OF INFORMATION

7.1 Land Use History

The Phase I Property existed as undeveloped vacant land until it was developed with the present-day residential dwelling in 1985. The land use has remained unchanged since the current landowner purchased the Phase I Property in 1992.

Potentially Contaminating Activities and Areas of Potential Environmental Concern

Based on the findings of the Phase I ESA, one off-site potentially contaminating activity (PCA) was identified – a set of railway tracks approximately 55 m north of the Phase I Property. Based on the distance with respect to the subject land and lack of ancillary activities associated with the trailway tracks, the presence of them are not considered to result in an area of potential environmental concern (APEC) on the Phase I Property.



Contaminants of Potential Concern

There are no APECs on the Phase I Property and as such, there are no contaminants of potential concern (CPCs).

7.2 Conceptual Site Model

Geological and Hydrogeological Setting

According to the Geological Survey of Canada website, the bedrock in the area of the Phase I Property is reported to consist of interbedded sandstone and dolomite of the March Formation. Overburden consists of plain till, with a drift thickness on the order of 5 to 15 m.

Based on the regional topography, groundwater is expected to flow in a northwesterly/northerly direction.

Areas of Natural Significance

No areas of natural significance are present on the Phase I Property or within the Phase I Study Area.

Water Bodies

No natural waterbodies are present on the Phase I Property or within the Phase I Study Area.

Drinking Water Wells

There are no potable water wells on the Phase I Property, nor are they expected to be present as the Phase I Study Area is situated in a municipally serviced area.

Existing Buildings and Structures

The Phase I Property is occupied by a two (2) storey single family dwelling. The residence was constructed in 1985 with a poured concrete foundation.

The exterior is finished in brick and vinyl siding with a sloped shingle style roof. The residential dwelling has always been heated by natural gas.

The northern and western portion of the back yard is sectioned off by a wooden fence. No other structures are present on-site.



Subsurface Structures and Utilities

With the exception of the basement level of the residential dwelling and underground utilities, there are no other subsurface structures on the Phase I Property. Underground utilities enter the Phase I Property from Fair Oaks Crescent.

Neighbouring Land Use

Neighbouring land use in the Phase I Study Area consists of residential properties and a set of railway tracks approximately 55 m north of the Phase I Property is present.

Potentially Contaminating Activities and Areas of Potential Environmental Concern

As per Section 7.1 of this report, there are no PCAs that are considered to result in APECs on the Phase I Property.

Contaminants of Potential Concern

As per Section 7.1, there are no contaminants of potential concern (CPCs) on the Phase I Property.

Assessment of Uncertainty and/or Absence of Information

The information available for review as part of the preparation of this Phase I- ESA is considered to be sufficient to conclude that there are no PCAs that have resulted in APECs on the Phase I Property.

A variety of independent sources were consulted as part of this assessment, and as such, the conclusions of this report are not affected by uncertainty which may be present with respect to the individual sources.



8.0 CONCLUSIONS

8.1 Assessment

Paterson Group was retained by Laaylar Ltd. to conduct a Phase I-Environmental Site Assessment (ESA) for the property addressed 25 Fair Oaks Crescent, in the City of Ottawa, Ontario. The purpose of this Phase I-ESA was to research the past and current use of the Phase I Property and the Phase I Study Area and to identify any environmental concerns with the potential to have impacted the Phase I Property.

According to the historical research, the Phase I Property was agricultural fields until it was developed with the present-day single-family dwelling in 1985. The Phase I Property has been used for residential purposes since. No potential concerns were identified with the historical use of the subject land.

Historically, the surrounding lands were used for agricultural purposes with a railway line located to the north of the subject land. The surrounding lands were developed around the same time as the Phase I Property for residential purposes. With the exception of the railway line, there were no other potentially contaminating activities (PCAs) identified with the historical use of the surrounding lands.

Following the historical research, an inspection of the Phase I Property and neighbouring lands was conducted to assess any potential environmental concerns. The Phase I Property is currently occupied by a two-storey single-family dwelling with an attached garage. No PCAs were identified with the current use of the Phase I Property. The surrounding lands consisted primarily of residential properties. No PCAs that would result in areas of potential environmental concern (APECs) were identified with the current use of the surrounding lands.

Based on the findings of our assessment, it is **our opinion that a Phase Il-Environmental Site Assessment is not required for the Phase I Property.**

8.2 Recommendations

Based on the age of the building, potential asbestos containing materials (ACMs) may be present within the structure, including drywall joint compound, ceiling stipple, suspended ceiling tiles and linoleum flooring. Lead based-paints may also be potentially present within the structure.



It is our understanding that the subject building will be demolished for redevelopment. Prior to the demolition of the subject building, a designated substance survey (DSS) must be conducted in accordance with Ontario Regulation 490/09 under the Occupational Health and Safety Act.



9.0 STATEMENT OF LIMITATIONS

This Phase I - Environmental Site Assessment report has been prepared under the supervision of a Qualified Person, in general accordance with O.Reg. 153/04, as amended, and meets the requirements of CSA Z768-01, reaffirmed 2016. The conclusions presented herein are based on information gathered from a limited historical review and field inspection program. The findings of the Phase I - ESA are based on a review of readily available geological, historical and regulatory information and a cursory review made at the time of the field assessment. The historical research relies on information supplied by others, such as, local, provincial and federal agencies and was limited within the scope-of-work, time and budget of the project herein.

Should any conditions be encountered at the Phase I Property and/or historical information that differ from our findings, we request that we be notified immediately in order to allow for a reassessment.

This report was prepared for the sole use of Laaylar Ltd. Permission and notification from the Laaylar Ltd. and Paterson will be required to release this report to any other party.

PROFESSIONAL CILLUMN M. S. D'ARCY

90377839

POVINCE OF ONTP

Paterson Group Inc.

Mandy Witteman, B.Eng., M.A.Sc.

Mark D'Arcy, P.Eng, QPESA

Report Distribution:

☐ Laaylar Ltd.

Paterson Group



10.0 REFERENCES

Federal Records

Air photos at the Energy Mines and Resources Air Photo Library.

National Archives.

Maps and photographs (Geological Survey of Canada surficial and subsurface mapping).

Natural Resources Canada – The Atlas of Canada.

Environment Canada, National Pollutant Release Inventory.

PCB Waste Storage Site Inventory.

Provincial Records

MECP Freedom of Information and Privacy Office.

MECP Municipal Coal Gasification Plant Site Inventory, 1991.

MECP document titled "Waste Disposal Site Inventory in Ontario".

MECP Brownfields Environmental Site Registry.

Office of Technical Standards and Safety Authority, Fuels Safety Branch.

MNR Areas of Natural Significance.

MECP Water Well Record Inventory.

Chapman, L.J., and Putnam, D.F., 1984: 'The Physiography of Southern Ontario, Third Edition', Ontario Geological Survey Special Volume 2.

Municipal Records

City of Ottawa Document "Old Landfill Management Strategy, Phase I -

Identification of Sites.", prepared by Golder Associates, 2004.

Intera Technologies Limited Report "Mapping and Assessment of Former Industrial Sites, City of Ottawa", 1988.

geoOttawa: City of Ottawa electronic mapping website.

City of Ottawa Historical Land Use Inventory (HLUI) Database

Local Information Sources

Personal Interviews.

Public Information Sources

Google Earth.

Google Maps/Street View.

Private Information Sources

ERIS Report

Survey Plan

FIGURES

FIGURE 1 – KEY PLAN

FIGURE 2 – TOPOGRAPHIC MAP

DRAWING PE5743-1 – SITE PLAN

DRAWING PE5743-1 – SURROUNDING LAND USE PLAN



FIGURE 1 KEY PLAN

patersongroup.

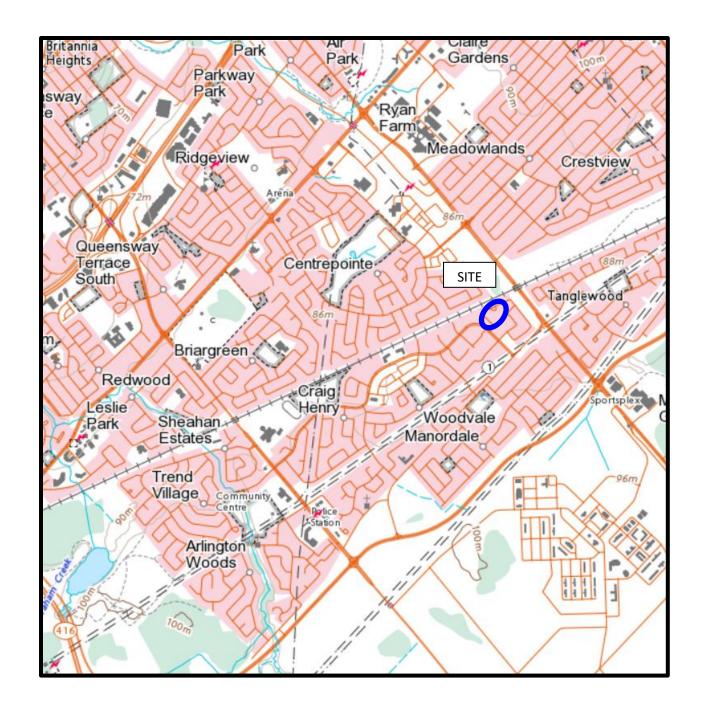
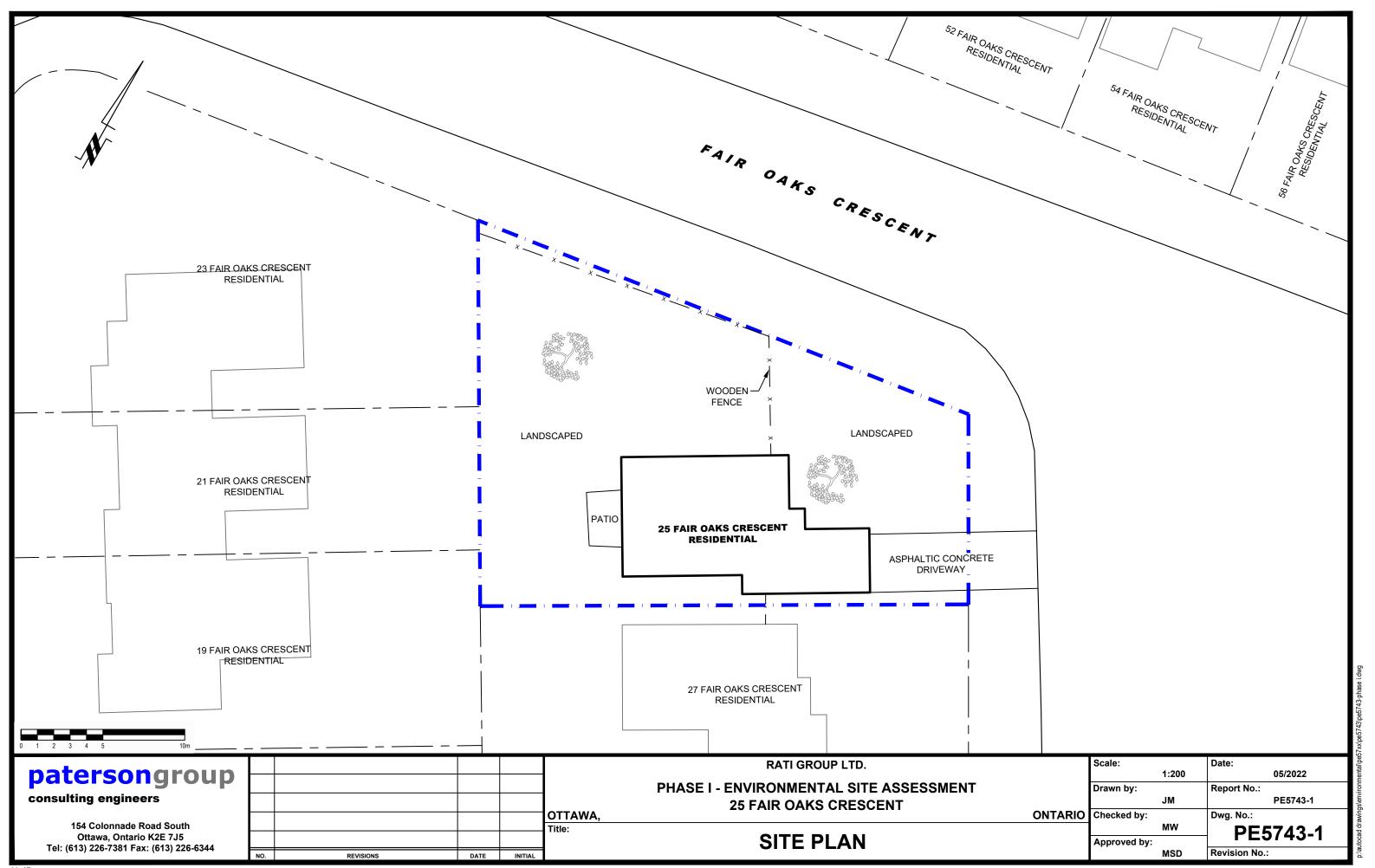
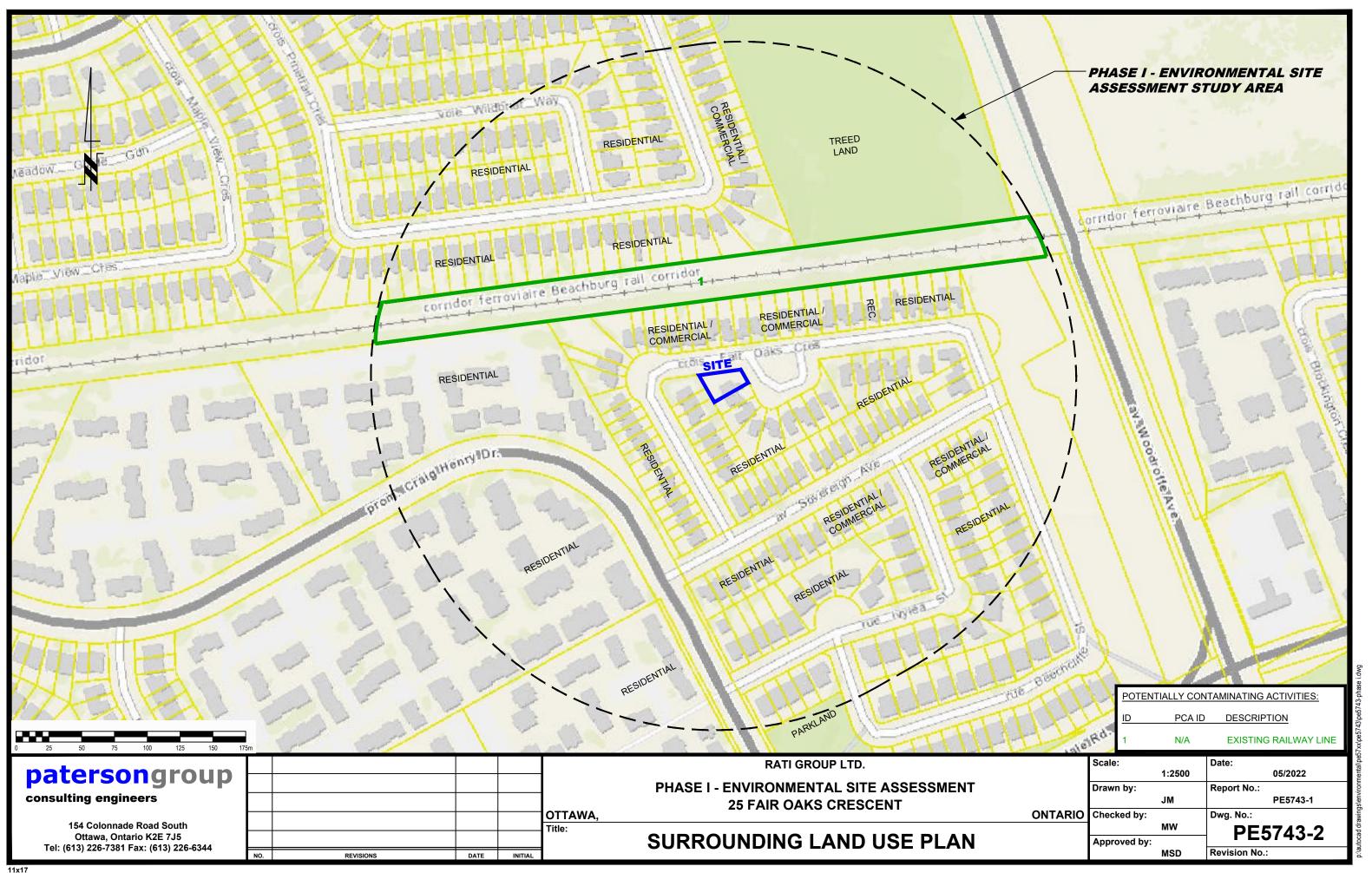


FIGURE 2 TOPOGRAPHIC MAP



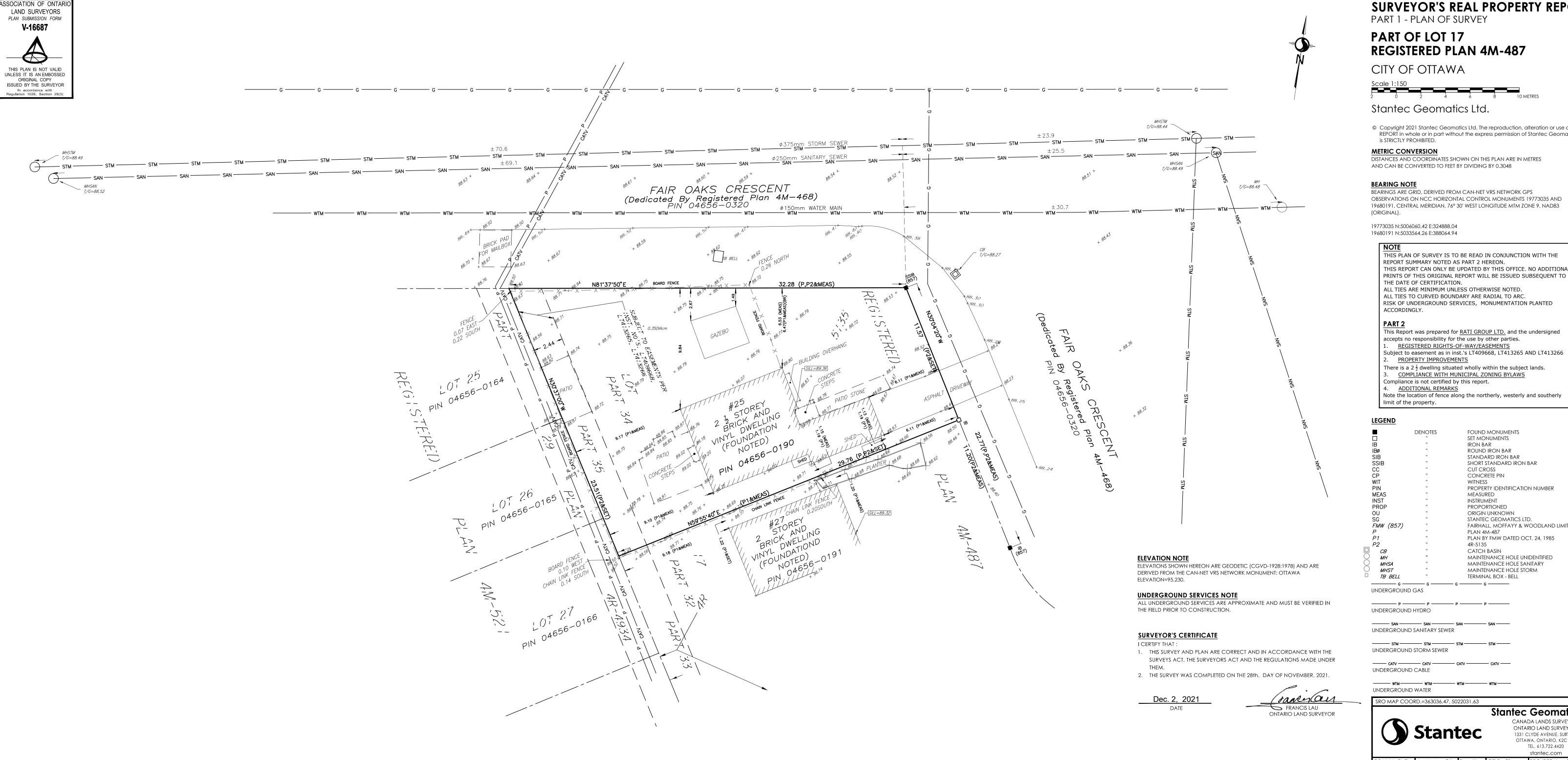


APPENDIX 1

SURVEY PLAN

AERIAL PHOTOGRAPHS

SITE PHOTOGRAPHS



SURVEYOR'S REAL PROPERTY REPORT

REGISTERED PLAN 4M-487



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DISTANCES AND COORDINATES SHOWN ON THIS PLAN ARE IN METRES

OBSERVATIONS ON NCC HORIZONTAL CONTROL MONUMENTS 19773035 AND 19680191, CENTRAL MERIDIAN, 76° 30' WEST LONGITUDE MTM ZONE 9, NAD83

THIS PLAN OF SURVEY IS TO BE READ IN CONJUNCTION WITH THE THIS REPORT CAN ONLY BE UPDATED BY THIS OFFICE. NO ADDITIONAL PRINTS OF THIS ORIGINAL REPORT WILL BE ISSUED SUBSEQUENT TO

ALL TIES TO CURVED BOUNDARY ARE RADIAL TO ARC. RISK OF UNDERGROUND SERVICES, MONUMENTATION PLANTED

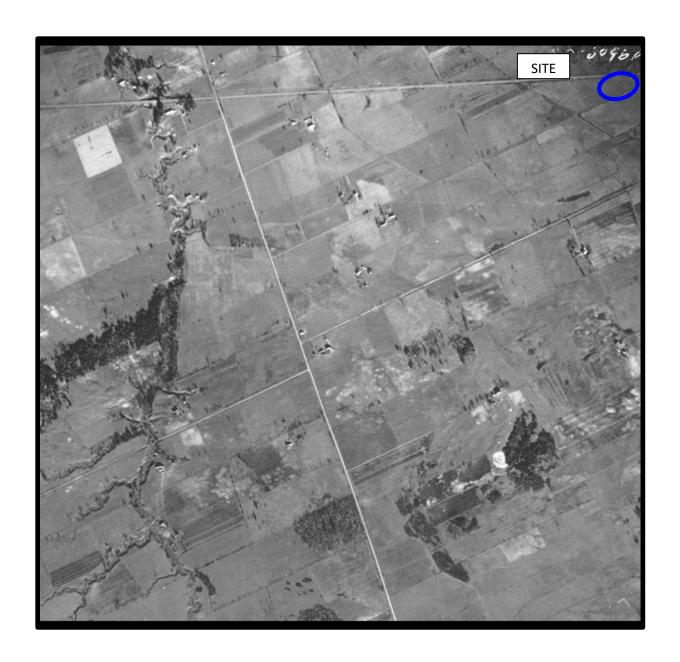
accepts no responsibility for the use by other parties. 1. REGISTERED RIGHTS-OF-WAY/EASEMENTS

Note the location of fence along the northerly, westerly and southerly

	DENOTES	FOUND MONUMENTS
	II .	SET MONUMENTS
IB	"	IRON BAR
IBø	"	ROUND IRON BAR
SIB	II .	STANDARD IRON BAR
SSIB	"	SHORT STANDARD IRON BAR
CC	II .	CUT CROSS
CP	II .	CONCRETE PIN
WIT	II .	WITNESS
PIN	II .	PROPERTY IDENTIFICATION NUMBER
MEAS	II .	MEASURED
INST	II .	INSTRUMENT
PROP	"	PROPORTIONED
OU	"	ORIGIN UNKNOWN
SG	II .	STANTEC GEOMATICS LTD.
FMW (857)	II .	FAIRHALL, MOFFAYY & WOODLAND LIMITED, O.L.S.
Ρ ` ΄	"	PLAN 4M-487
P1	II .	PLAN BY FMW DATED OCT. 24, 1985
<i>P2</i>	"	4R-5135
\square CB	II .	CATCH BASIN
○ MH	II .	MAINTENANCE HOLE UNIDENTIFIED
○ MHSA	II .	MAINTENANCE HOLE SANITARY
O MHST	II .	MAINTENANCE HOLE STORM
□ <i>TB BELL</i>	"	TERMINAL BOX - BELL
——— G —	G	_ G G

Stantec Geomatics Ltd. Canada lands surveyors

ONTARIO LAND SURVEYORS 1331 CLYDE AVENUE, SUITE 400 OTTAWA, ONTARIO, K2C 3G4 TEL. 613.722.4420 stantec com AWN: TMT CHECKED: CK PM: KL FIELD: ES PROJECT No.: 161600000



AERIAL PHOTOGRAPH 1945

patersongroup ____



AERIAL PHOTOGRAPH 1952

patersongroup ___



AERIAL PHOTOGRAPH 1965



AERIAL PHOTOGRAPH 1976



AERIAL PHOTOGRAPH 1983

patersongroup ____



AERIAL PHOTOGRAPH 1991



AERIAL PHOTOGRAPH 2005



AERIAL PHOTOGRAPH 2019

APPENDIX 2

MECP FREEDOM OF INFORMATION

MECP WELL RECORDS

TSSA RESPONSE

HLUI RESPONSE

ERIS REPORT

Ministry of the Environment, Conservation and Parks

Access and Privacy Office

12th Floor 40 St. Clair Avenue West Toronto ON M4V 1M2 Tel: (416) 314-4075

Ministère de l'Environnement, de la Protection de la nature et des Parcs

Bureau de l'accès à l'information et de la protection de la vie privée

12e étage 40, avenue St. Clair ouest Toronto ON M4V 1M2 Tél.: (416) 314-4075



May 11, 2022

Mandy Witteman
Paterson Group Inc.
154 Colonnade Road
Ottawa, Ontario K2E 7J5
mwitteman@patersongroup.ca

Dear Mandy Witteman:

RE: MECP FOI A-2022-03745 / Your Reference PE5743 – Acknowledgement Letter

The Ministry is in receipt of your request made pursuant to the Freedom of Information and Protection of Privacy Act and has received your payment in the amount of \$5.00 (non-refundable application fee).

The search will be conducted on the following: 25 Fair Oaks Crescent, Ottawa. If there is any discrepancy, please contact us immediately.

Please note the file number that has been assigned to your request. This number should be referred to in all future communications with our office.

Also, the Ministry's Freedom of Information and Protection of Privacy Office (MECP Access and Privacy Office) is currently providing requesters with decisions/records via email. This allows requesters to obtain decisions containing records in a more timely and efficient way.

You may expect a reply or additional communication as your request is processed. For your information, the Ministry charges for search and preparation time.

If you have any questions, please contact Nasreen Salar at or nasreen.salar@ontario.ca.

Yours truly, MECP Access and Privacy Office

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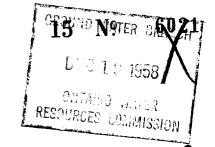


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Elev. 4 10290

The Water-well Drillers Act, 1954

Department of Mines



LOT 31

Water-Well Record

•		•••		<u> </u>				
County or Territorial District	ARL	Town	ship, Village, Town or	CityMEP.K.AM	***************************************			
Con 2 R.P. Lot 31 Owner DOM/IN/OIN BUILDIN	Street and Nu	mber (if	in Village, Town or C	ity)				
Date completed			Address					
Date completed	(month)	(year)						
Pipe and Casing	Record			Pumping Test				
Casing diameter(s)?			Static level 4 FE.	ET	•••••			
Length(s)76			Pumping rate 50	GPM.	••••••			
Type of screen			Pumping level 7 FEET					
Length of screen			Duration of test48	HOURS.				
Well Log	11/15 · · · · · · · · · · · · · · · · · · ·			Water Record				
Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s)	No. of feet water rises	Kind of water (fresh, salty, or sulphur)			
BLACK MUCK	0	2	found					
SANDY CLAY	2	46	/50) Pe	1-RESH			
SAND	42	74	/32	128	**			
GREY LIMESTONE	74	/30 /3 2						
ANDSTONE (NEPRAN)	750	/ 0 4		_				
				-				
	l				WAM			
For what purpose(s) is the water			Lo	cation of Well				
CEMENT PLANT			In diagram below	show distances of	well from			
Is water clear or cloudy?CA			road and lot line	e. Indicate north	by arrow.			
Is well on upland, in valley, or on	niliside (, F.A.A.	(V. FZ	\times_c	13				
Drilling firm Mokaubhlury	,		S	(A)	17			
Address C//Aw A								
				10				
Name of Driller F. FLEURY Address 0//A w A				15				
Address 0//A w A				€ W ×				
	•••••			, , ,				
Licence Number								
I certify that the statements of fact				Co	ri d			
	2 /			f	60730			
Date Min 1/53	gnature of Licenses			• • • • • • • • • • • • • • • • • • • •				

A 090635

r Print Below)

Well Record

Regulation 903 Ontario Water Resources Act

Ontario Water Resources Act
Page of

	Knoxdals trict/Municipality			Ci	ty/Town/Village OHawa	Mumber	Province Onta		Postal	Code
NAD	8 3 1 8 4 U	1013165	orthing 0 210 2		unicipal Plan and Sublo	t Number	Other			
Overburde	en and Bedrock Ma	TAXABLE PARTIES.		ing Recor	d (see instructions on the	back of this form) General Description	HHE		Dep	th (m/ft)
General Co	A	mmon Material		Othe	er Materials	General Description			From	4,7
Brow	m Sandy	delay	-						4.2	23
	aura	,,							1.0	FJ.
Depth Se	et at (m/ft)	Annular Type of Sea		HHIIIII	Volume Placed	Results of We After test of well yield, water was:	_	d Testing aw Down	R	ecovery
From	To	(Material an	d Type)		(m³/ft³)	☐ Clear and sand free ☐ Other, specify	Time (min)	Water Leve (m/ft)	Time (min)	Water Level (m/ft)
0.30	6.91 Ber	stonite			20 Kgs	If pumping discontinued, give reason:	Static Level	/		
							1	/	1	
						Pump intake set at (m/ft)	2/		2	
3.5 - 41	nod of Constructio	-	*********	Well Us		Pumping rate (l/min / GPM)	3		3	
Cable To			blic [Commer	cial Not used	Duration of numping	4		4	/
Rotary (C	Conventional)	_	350 C 100	Municipa Test Hol	-/	Duration of pumping hrs +min	5		5/	
☐ Boring ☐ Air percu	☐ Digg	ing Imi	Carrier and the control of the		& Air Conditioning	Final water level end of pumping (m/ft)	10	/	10	
Other, sp			ner, specify			If flowing give rate (Vmin-/ GPM)	15	/	15	
Inside	Constructio Open Hole OR Mater	n Record - Cas	ing Depth		Status of Well Water Supply	Recommended pump depth (m/ft)	20/		20	
Diameter (cm/in)	(Galvanized, Fibreglas Concrete, Plastic, Ste	ss, Thickness	From	То	Replacement Well	Recommended pump depar (mm)	25		25	
5,1	PVC	Schid	0	1.6	Test Hole Recharge Well	Recommended pump rate (l/min / GPM)	30		30	
2,		10		***	Detwatering Well Observation and/or	Well production (Vmin / SPM)	40		40	
					Monitoring Hole Alteration	Disinfected?	50		50	
					(Construction) Abandoned,	Yes No	60		60	
	Construction	on Record - Scre			Insufficient Supply Abandoned, Poor	Map of W Please provide a map below following			book	
Outside Diameter (cm/in)	Material (Plastic, Galvanized, St	. Slot No.	Depth From	(m/tt) To	Water Quality Abandoned, other,	Please provide a map below following	IIISIIUO	ions on the	N	
5.8	PVC	10	1.3	7.3	specify			We		
					Other, specify		MW	NOODRO		
	the same of the sa		755544554 2557464		ole Diameter		Ø	Ro-J		34 4 803
	od at Depth Kind of V		Untested	From	h (m/ft) Diameter To (cm/in)			专		
Water foun	d at Depth Kind of V	Vater: Fresh	Untested	Ò	7.3 20			AVE		
	n/ft) Gas Other ad at Depth Kind of V		Untested					0		
(n	vft) Gas Other							1		
Business N	Well Contracted	actor and Well	Technician		tion Il Contractor's Licence No.			1		
George	2 Downing &	StateDr	illing	Id	1844	KNOKDALE ROAD		-	5	
11. 7	ddress Street Number	0 0	enville	\(\int_{\text{ln}}\) Mu	la Rouge	Comments:				
Province	Postal Cod	e Busines	s E-mail Addr	en 1	0	Well owner's Data Post and Data	ad l	200	nter II	o Onko
Bus. Telepho	one No. (inc. area code)	Name of Well	WNU NO Technician (L	est Name,	First Name	Well owner's information package		Audit No.	stry Us	OOF
819	24 24 4 9 gian's Licence No. Sign	Down		Brue	te Submitted	package			8.	1095
Well Technic	12 3	rue de	un		0100904	PNO 2011002	17	MAR Received	12	2010
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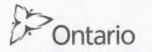
Tara No. for Master Well (Place Sticker and/or Print Below) Ministry of the Environment A 090597

MW# 39

Master Well Record for **Cluster Well Construction**

Regulation 903 Ontario Water Resources Act
Page ______ of _____

Address of	well Location (Str	eet Number/Name, RH)	al) I PO	пір				LOI	Concessi	UII	81-1
County/Dis	Kno Xa	ale Road (Woodrotte City/To	wn/Villag	je				Province	Postal Cod	de
UTM Coord	linates Zone Eas	sting Northing	GPS Uni	Hay	Model		Mode of O	peration:	Ontario		
NAD	1 0 17	111032502	03148 GARA	VIN	94	ex		tiated, specify	Undifferentiated	Averag	ea
		ck Materials (see inst		_	(Metres)	Donth	(Metres)	Hole	Details		
General Colour	Most Common Material	Other Materials	General Description	From	To	From	To		Diamet (Centime		
Brown	dopsoil.	sand with silt,	clay fine to me	10	1.0	0	7.6	20			
11	Sand-	silty trace gr	avel grouned	1,0	2.5						
Gray	Clay -	Silty trace gr	grained	2.5	4.0						
Brown	Sand -	occasional cot	ble coarse	4.0	7.6						
									er Use		
						Public Dome	stic C	ommercial	Not used Dewatering	Other, s	pecify
						Livest			Monitoring Cooling & Air Con	ditioning	
								Method of	Construction		
						Cable Rotary	Tool (Convention	Air Pe	Charles of the Annual Control of the		
							(Reverse)	☐ Jetting ☐ Driving	111	ther, specify	
						,			s of Well		
						D est H	lole cement Well		loned, Insufficient S		
						Dewat	ering Well	Other,			
									loned, other, speci		
						Open Hole	9	creen Used	1 1 1	ter Level Tes	st
Construction Details					(Material)		Yes UK		reen	etres	
Inside Diameter (Centimetres) (steel, plastic, fibreglass, concrete, galvanized) Wall Depth (Metres) Thickness From To				Galvar		teel Fibro		rete Plas	stic		
5.1		- Casing (ti	sor) sched	0	6.1	Outside D	5.8	ntimetres)	Slot No.		
	Scre	in .		6.1	1.6	Water for	und at Dept	Water De	etails of Water		
							Metres [Gas Fre	sh Salty	Sulphur N	Minerals
NORTH CONTRACTOR	Annul	ar Space/Abandonme	at Spaling Popord			Water for	und at Dept Metres		of Water	Sulphur 1	Vinerals
Depth Set a		Type of Sealant ((Material and Ty)	Jsed		e Used Metres)	Water for	und at Dept	h Kind o	of Water	Sulphur	Minerals
0	3.8 Ben	denite.		30 Kg		Disinfecte	_	No If no, prov	ide reason: Date	Master Well Co	
						mon	itorin	a well		10/04	112
						Cluster	Information	(Please also	fill out the addition for each parcel	onal Cluster	Well
							lls in Cluste		Please indicate Information Log	Number of Clu	ster Well
							lls on this P		Internation Log	I	itou
						ur	Knou		f Well Cluster		
								The second second second second	an attachment no	larger than leg	gal size
									ap is provided as	per Section 1	1.1 (3)
						Consent	to release a	dditional info	rmation concern	ing the clust	er to
Business Na	Well Cor ame of Well Contra	ntractor and Well Tec		actor's Lice	ence No.						
Georg	e Downing	9 (State 1)	ruling 18	3 14	4						
410	Ru Prine	cipale Gres	Wille Sur 1	a Ro	suge			Ministry	Use Only		
Province	Postal Co	Business E-m	ing@hawk.		V	Audit No.	w 05	588	Well Contractor N	0.	
111.0	NI A A A A A A A A A A A A A A A A A A A	(e) Name of Well Technic	an (LashName, First Na	ame)	Tue!	Date Rece	eived (yyyy/m	m/dd)	Date of Inspection	(yyyy/mm/dd)	
Well Techinic	LUZ LU (anis License No. Sig	Downer of Technician	a Bruce Date Sub	mitted (vv	y/mm/dd)	MAY :	2 8 2011	J			
211	73	15 11.									
1992 (11/2006	1	Mus- Jel	2010	100/6	2.5						



Ministry of the Environment

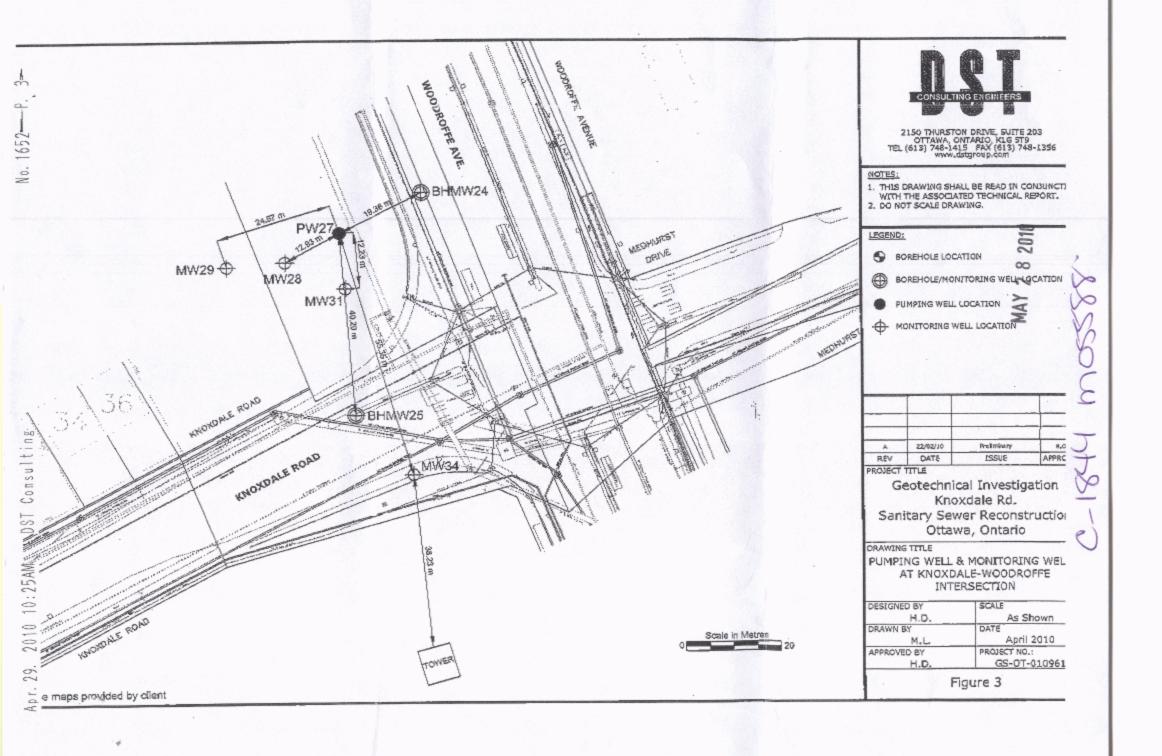
A 090597 (Print Well Tag No.)

Cluster Well Information for Cluster Well Construction

Regulation 903 Ontario Water Resources Act

Page ____ of ___

Address of Well Location Knoxda City/Town/Village	(Street Number/Name,	Loodroff	e Lot	Co	oncession	ownship			Cour	nty/District/Mun	icipality	Signature of Technician/Contractor	Date (yyyy/mm/dd)
City/Town/Village O Hawa	Pro		estal Çode	1 /	A RESIDENCE OF THE PARTY OF THE	andel Etrex		de of Oper entiated, s		ndifferentiated	□ Averaged	Bundpur	2010/05/03
Well # UTM on Sketch Zone Easting	Coordinates Northing	Full Depth of Hole (metres)	Hole Diameter (cm)	Method of Construction	Casing Material	Casing Length (metres)	Screen Inte	erval (metres) To	Annular Space Sealant Used		Abandonment Sealant Used	Comments	Date of Completion (yyyy/mm/dd)
39 18 44110	03 502034	3 6.1	20	HSA	PVC	4.5	4.5	6.1	Benjonit	e 4.5			2010/04/09
28 18441C	12502034	4 8.8				6.4	4.4	7.9		4.7			2010/04/18
	27502089	4 6.1				4.5	4.5	4.1		4.1			2010/04/12
184410	25 5 8 2034	7 8.2				6.0	4.0	7.5		4.7			2010/04/12
25 1844110	3450 2030	7 12.2	+	7	4	9.8	9.8	11.3	4	4.3			2010/04/09
	Шиш												Will Old Old Old Old Old Old Old Old Old O
Well Contractor an Business Name of Well	d Well Technician	Information		ness Addres ∌√ S	Street Number/Na	ime, RR)		Municipa	lity		Province		st Well in Cluster Constructed
George Down		illing L	d. 411	0 1)	1	Grenvill siness E-mail	e Su L	a Ro	uge		Qe	Ministry Use Only	appointed (see section (see)
ZOVIB	O S 9 2 (First Name, Last Name			\ 8				haw	cof Technician	net		MAY 2 8 2010	spected (yyyy/mm/dd)
Bruce Day		,		2 1		010/05/0		13	- Cellon Clar	lun		C 07994 Remark	105588
1991 (11/2006)						1	Ministry's	Сору				© Quee	n's Printer for Ontario, 2006



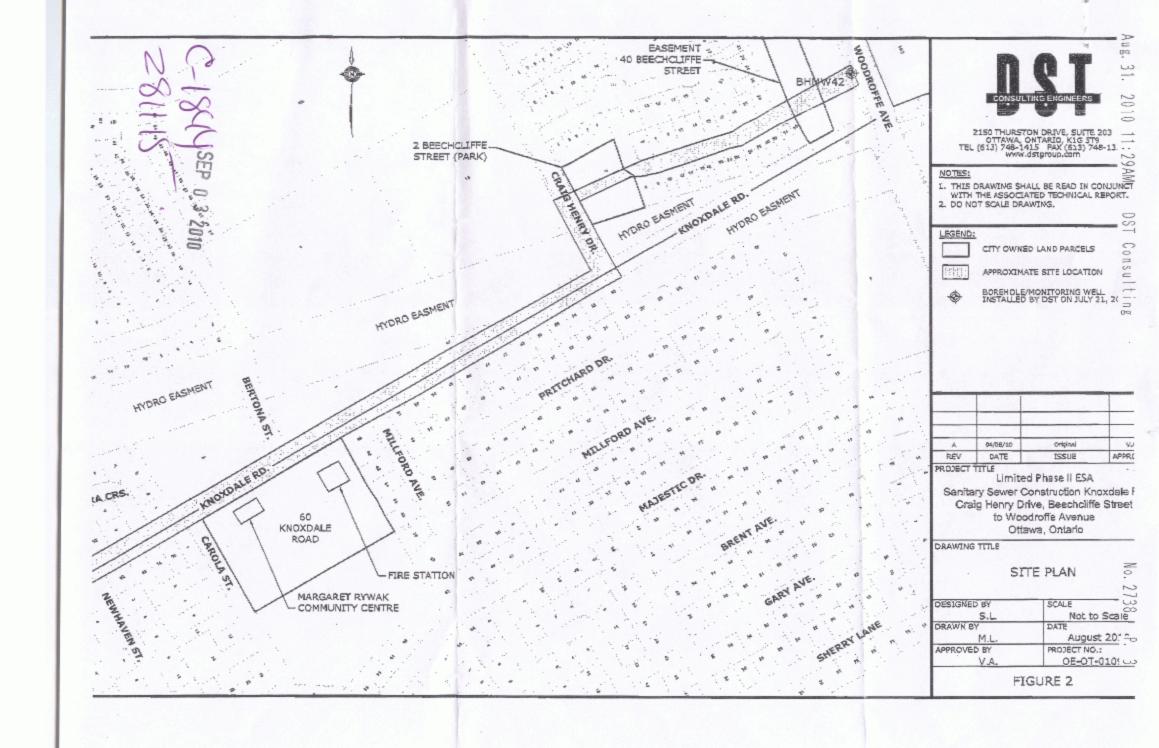
Well Record Print Below) Ministry of the Environment A 096537 Regulation 903 Ontario Water Resources Act Page of Measurements recorded in: Metric Imperial Well Owner's Information Last Name / Organization E-mail Address □ Well Constructed First Name by Well Owner City of Ottana Mailing Address (Street Number/Name) Telephone No. (inc. area code) Postal Code Municipality Province 100 Constellation Crescent, 6th Floor, Ottawa K 2 6 6 1 8 6 1 3 5 8 0 2 4 2 4 ON Well Location Address of Well Location (Street Number/Name) Concession 40 Beecholite Street Postal Code City/Town/Village Province OHTANA Ontario Municipal Plan and Sublot Number Other UTM Coordinates Zone Easting Northing NAD 8 3 1 8 4 4 1 0 1 4 5 0 2 0 4 0 6 Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form) Depth (m/ft) General Description Other Materials General Colour Most Common Material From 0.8 0 Cemented Grey Asphalt 1.2 0.8 Trace Silt Loose Brown Sand and Gravel Layered 3. Silt and Sand Grey Clay Layered Clay, Sand, Gravel 3.6 4.8 5:11 Grey 4.8 Silt, Clay, Gravel Conpact 544 9 Grey Results of Well Yield Testing Annular Space Volume Placed m³/ft³) After test of well yield, water was: Draw Down Recovery Type of Sealant Used (Material and Type) Depth Set at (m/ft) Clear and sand free Water Level Time Water Level (min) (m/ft) Other, specify (m/ft) (min) 1.5 Bentonite 0.92 Static If pumping discontinued, give reason: Level 1 1 Pump intake set at (m/ft) 2 2 3 3 Pumping rate (I/min / GPM) Method of Construction Well Use 4 4 Public Cable Tool Diamond Commercial Not used Duration of pumping Rotary (Conventional) Jetting Domestic Municipal Dewatering min 5 5 hrs + Monitoring Livestock Rotary (Reverse) Driving Test Hole Final water level end of pumping (m/ft) Cooling & Air Conditioning Boring Digging | ☐ Irrigation 10 10 Air percussion direct push ☐ Industrial Other, specify 15 15 If flowing give rate (I/min-/ GPM) Construction Record - Casing Status of Well 20 20 Depth (m/ft) Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel) ☐ Water Supply Inside Wall Recommended pump depth (m/ft) Thickness (cm/in) Diamete Cm (in) Replacement Well 25 25 To From ✓ Test Hole Recommended pump rate (Vmin / GPM) Sche 4 5.1 PVC Recharge Well 1.5 40 Dewatering Well 40 40 Observation and/or Monitoring Hole Well production (Vmin / GPM) 50 50 Alteration Disinfected? (Construction) Yes No Abandoned, Insufficient Supply Map of Well Location Construction Record - Screen Abandoned, Poor Water Quality Please provide a map below following instructions on the back Depth (m/ft) Material Slot No. Abandoned, other, (Plastic, Galvanized, Steel) From To specify 6 Other, specify Water Details Hole Diameter Depth (m/ft) Water found at Depth Kind of Water: Fresh Untested From (cm)in) To 3, 95 (A)ft) Gas Other, specify 20 Water found at Depth Kind of Water: Fresh Untested (m/ft) Gas Other, specify Well Contractor and Well Technician Information Business Name of Well Contractor Well Contractor's Licence No. 1 8 4 4 George Downing Estate Drilling Business Address (Street Number/Name) Municipality Comments 410 Ree Principale Grenville
Province Postal Code Business E-mail Address Sur La Province Q C U O V I B O downing Chawkigs net
Bus. Telephone No. (inc. area code) Name of Well Technician (Last Name, First Name) Ministry Use Only Well owner's Date Package Delivered nformation package delivered Y Y Y Y M M D D 8 1 3 2 4 2 6 4 6 9 Downing Brack Submitted

Well Technician's Licence No. Signature of Technician and/or Contractor Date Submitted Date Work Completed Yes SEP 0 3 2010 No 201001721 3 2 11 7 29100831

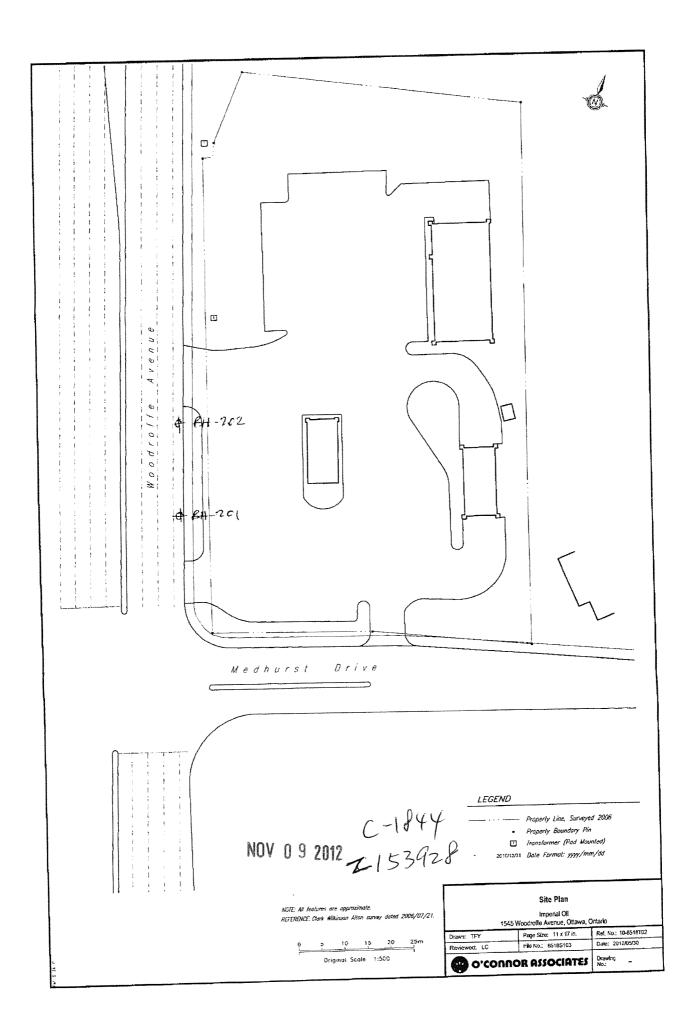
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0	ntario Ministr	ry of vironment	Well Ta	ag No. (Place Sticker	and/or Print Below)	Regulation	903 Ontar	VVEII K io Water Res	
Measurem	ents recorded in: 🔀 N	Metric Imperial	No	TAGH	(BH202)			Page	of
Well Ow	ner's Information	18. 18.779						3/10	
First Name	1.	ast Name / Organization		LMUTED	E-mail Address				Constructed ell Owner
	dress (Street Number/Nar	ne)		Municipality	Province	Postal Code	Telep	hone No. (inc.	area code)
QO Well Loc		AVENUE		TORONTO	0/7		MOITL	prun	(1200)
H785000000000000000000000	Well Location (Street Nur	^		Township		Lot	Conc	ession	
1545 County/Dis	MOOD PO	pe Avenu	=	City/Town/Village			Province	Postal	Code
Oddinyibio	The state of the s			OTTAWA			Ontario	K121	G1 W2
	linates Zone Easting	Northing 0 6 6 5 0 2 0	1	Municipal Plan and Sut	olot Number		Other		
	en and Bedrock Materi	als/Abandonment Se	ealing Rec	ord (see instructions on ti	he back of this form)				Ala (an III)
General C	olour Most Comn	non Material	Ot	her Materials	Gene	ral Description		From	th (<i>m/ft</i>)
Groy	Asphalt	till					BANKANTO TO TO THE STATE OF THE	0	1.2
dorkg	ray gravel	(fill) to	ace cob	bles, sand	moist			1.4	1
9/20	2 Sett					mp	1 - 11	+	1-2
light	pay Sand		silt,	trace gravel	coarse to me	divm, WE	7 SIC		5.2
	<u> </u>			<u> </u>					
		Annular Space				Results of We	II Yield Te	sting	100
Depth S From	et at (<i>m/ft</i>)	Type of Sealant Used (Material and Type)		Volume Placed (m³/ft³)	After test of well yield,		Draw D		ecovery Water Level
	0	ENTON ITE		0,00 m3	Other, specify		1	m/ft) (min)	(m/ft)
)- "(MION ISC			If pumping discontinue	d, give reason:	Level	-	
***************************************		-				(6)	1	1	
					Pump intake set at (r	n/ft)	2	2	
Met	hod of Construction		Well U	se	Pumping rate (I/min /	GPM)	3	3	
Cable To	ool Diamond		Comme	manus .	Duration of pumping		4	4	
☐ Rotary (Conventional)	Domestic Livestock	☐ Municip☐ Test Ho		hrs + r	nin	5		
☐ Boring ☐ Air percu	☐ Digging ☐ Digging	☐ Irrigation ☐ Industrial	Cooling	g & Air Conditioning	Final water level end c	f pumping (m/ft)	10	10	
Other, s	pecify ANGER	Other, specify			If flowing give rate (I/r	nin / GPM)	15	15	
Inside	Construction R Open Hole OR Material		th (<i>m/ft</i>)	Status of Well Water Supply	Recommended pump	depth (m/ft)	20	20	
Diameter (cm/in)	(Galvanized, Fibreglass, Concrete, Plastic, Steel)	Thickness (cm/in) From	To To	Replacement Well			25	25	
5.1	RVC	sched 0	3.05	Recharge Well	Recommended pump (I/min / GPM)	rate	30	30	
				Dewatering Well Observation and/or	Well production (I/mir	/ GPM)	40	40	. ,
				─ Monitoring Hole☐ Alteration	Disinfected?		50	50	
				(Construction) ☐ Abandoned,	Yes No		60	60	
	Construction R			Insufficient Supply Abandoned, Poor	Si il		II Locatio		
Outside Diameter	Material (Plastic, Galvanized, Steel)	Slot No. Prom	th (<i>m/ft)</i> To	Water Quality Abandoned, other,	Please provide a map See Figure		_		IED
(cm/in)	0.10	2-5	5.2	specify				13,11)()	
ا ا	PVC	#10 33,0°	Ja	Other, specify					
	Water Det	elle		Hole Diameter					
Water four	nd at Depth Kind of Water		349 20-103 03-01-01-01-01-01-01-01-01-01-01-01-01-01-	oth (<i>m/ft</i>) Diameter					
	n/ft) Gas Other, spe nd at Depth Kind of Water			10 (6/7/11)					
(n	n/ft)	ecify							
	nd at Depth Kind of Water		d						
	n/ft)	or and Well Technici	<u>· ∣</u> an Informa	ition					
^	ame of Well Contractor			ell Contractor's Licence No					
Business A	DOWNING LEARNE I ddress (Street Number/Na	DRICLING me)	M	unicipality	Comments:				
4(0 P	WE PRINCIPALE			=-sun-la-Rouge	3			~	
Province	Postal Code	Business E-mail Ad		ias.net		ackage Delivere	300000000000000000000000000000000000000	Ministry Use	Only
Bus.Telepho	one No. <i>(inc. area code)</i> Na	me of Well Technician	(Last Name,	, First Name)	information package delivered	YYMM	Audi	. No. 715:	3 Q D D
Well Technic	2H2 GH GR 'initial Signature	of Technician and/or C	DOWN Contractor Da	ate Submitted	☐ Yes Date W	/ork Completed		NOV Y	3928 9 201 2
313	126		2	10/12/4/0/6/6		12051	3 d Rece	ived	-w er 3 fg
0506E (2007/	12) © Queen's Printer for Ont	ario, 2007)	Ministry's Cop	y				



Well Tag No. (Place Sticker andlor Print Below) Well Record Ministry of Ontario SEE BELOW Regulation 903 Ontario Water Resources Act the Environment of 3 Page 3 Metric Metric Measurements recorded in: Imperial **Well Owner's Information** First Name ganization OTTIMA THE THE THE SPULLING ☐ Well Constructed by Well Owner Province Mailing Address (Street Number/Name)

NO XAURIER AVE. 1055 Municipalit (inc. area code) CITTLIA Well Location Address of Well Location (Street Number/Name) Township County/District/Municipality Postal Code City/Town/Vill Province Ontario UTM Coordinates Zone Easting
NAD | 8 | 3 Municipal Plan and Sublot Number Other Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form) Depth (m/ft) DEPTH MER WAR WELLMOR THE + RECIRDA (LORTHING) GPS (EPHSTAL) 50207920 18 440906E 4. H) 101246 | Z-15076 | 184409ZZE 1-101247 12-150260 50ZOHLON 3.H 1A-1012501Z-150259 5020740L 84407336 46 -1A-10124912-150258 50207171 W3 [A-10125] /E-150257. 5020693N WIZ/A-101217/E-150272 50ZD948N 5001 WZ/A-101244/2-150256 50207031 5,45 W1/A-101245/Z-150283 5020702N Annular Space Results of Well Yield Testing r test of well vield, water was: Type of Sealant Used (Material and Type) Depth Set at (m/ft) Volume Placed Draw Down Recovery (m³/ft³) Clear and sand free Time Water Level Time Water Level Other, specify (min) (m/ft) (min) (m/ft) SEEMOW BENJANITE ERCUT 3.17 If pumping Static discontinued, give reason: SEEMBUL (ABADONUEN) Level HOLEPUG Pump intake set at (m/ft) 2 2 3 3 Pumping rate (Ilmin | GPM) **Method of Construction** Well Use 4 Cable Tool 4 ☐ Diamond ☐ Public Commercial ☐ Not used Duration of pumping Dewatering ☐ Rotary (Conventional) ☐ Jetting ☐ Domestic Municipal 5 hrs + min ☐ Rotary (Reverse) ☐ Driving Livestock Test Hole Monitoring ☐ Boring ☐ Digging ☐ Irrigation Final water level end of pumping (m/f) Cooling & Air Conditioning 10 ☐ Air percussion ☐ Industrial ☐ Other, specify Other, specify 15 Construction Record - Casing Depth (m/ft) If flowing give rate (Ilmin / GP) Status of Well Open Hole OR Material 20 20 Inside Diamete (cm/in)] Water Supply Recommended pump depth (mlft) (Galvanized, Fibreglass, Concrete, Plastic, Steel) Thickness Replacement Well From 25 25 (cmlin) Test Hole Recommended pump rate Recharge Well SIEZZ 30 **3**0 (Ilmin / GPM) Dewatering Well 40 40 Observation and/or Well prod action (Ilmin | GPM) Monitoring Hole 50 50 Alteration fected? (Construction) No Abandoned, Insufficient Supply Yes Construction Record - Screen Map of Well Location Abandoned, Poor Outside Please provide a map below following instruction Material (Plastic, Galvanized, Steel) Depth (m/ft) Water Quality on the back Abandoned, other, Slot No (cm/in) CONSPICTION WOODEDFIE AVE 17 CUMEST Other, specify Basenes Water Details K Hole Diameter ater found at Depth Rind of Water: Depth (m/ft) DAWATERING WETES (mlft) Gas Other, specify 145 CONSCIPALE Water found at Depth Kind of Water: Fresh Untested 144 (m/ft) Gas Other, specify GOVE , 43 Water found at Depth Kind of Water: Untested ANZ. (m/ft) Gas Other, specify Cile Well Contractor and Well Technician Information THUTCH Y DEWALE IN COMPORTO ORIGINAL NELLETORIS (2013) PHIENNA BY ARLUMECH DEWATERING dillinebellenet Well owner's Date Package Delivered Ministry Use Only information 2013103 Audit No. package delivered **z** 16380**7** Yes OCT 3 0 2013 131018 104 No Ministry's Copy

Ontario	Ministry of the Environment in: Matric ☐ Imperial	Well Tag No. (Place Sticker a	and/or Print Below)	Regulatio	on 903 Ontario	Well Record Water Resources Act ge / of /
Well Owner's Information Name		2 11 C/ min	Email/Address	1 13 O . N		geoi
Mailing Address (Street Nu	mber/Name) WEX ALE. WES		Province	Postal Cod	TRUCTU Teléphoi	by Well Owner
Well Location			- CPU	<u>~17 (</u>	/(<u>)</u> (473)	<u> </u>
Address of Well Location (S		Township NEPER	N (RF)	101 3Z	Conces	zion Z
County/District/Municipality	OTTHUA	City/Town/Village	1 WERDW)	Province Ontario	Postal Code
UTM Coordinates Zone, E	Trebe Albau	Municipal Plan and Subl	ot Number		Other	
Overburden and Bedroc	k Materials/Abandonment Se ost Common Material	ealing Record (see instructions on the Other Materials		al Descriptio	n	Depth (<i>m/ft</i>)
well# Via	. Water Keel	GFS Northin	OPS East	14	Tout	Denth
MW/ 32mm	- E(dy) :	5020314JN	1844105	188	JUA	00 148
MWZ 32m	1230	E)203111	IRAUNZI		x) ld	100 1105
JUICE DEM	- 1010m		10-711001			out mo
Rotary (Conventional) Rotary (Reverse) Boring Air percussion Other, specify Construction Inside Diameter (cm/in) Construction Construction Galvanized, Fit Concrete, Plasti Concrete, Plasti All Pastic, Galvanized Plastic, Galvanized Plastic, Galvanized Construction (m/ft) Gas Water found at Depth (ind/ft) (m/ft) Gas Water found at Depth (ind/ft) (m/ft) Gas Water found at Depth (ind/ft) Gas	Diamond	From To (cm/in)	After test of well yield, v Clear and sand from the continued of the conti	water was: ee d, give reason: with pumping (mith pumping (mith depth (m/fi) rate / GPM)	1 2 3 4 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6	Recovery (min) (min) (min) 2 3 4 5 10 15 20 25 30 40 50 60
Business Address (Street No.	INKLING ME INFORMATION OF THE NO	HE 75	Comments:	Lile L	1000	•
Province Rostal	Code Business E-mail Add	tress 11 m low low	I CCL VOL	INO. F	rucs.	
Bus Telephone No. (inc. area of	TE DIMINION	Last Name/First Name) PELEX	information package delivered	ckage Deliver	Audit No	12190202
Well Technician's Licence No. 5	Signature of Ednows and the do	potractor Date Suprotuse 0605	Yes Date W.	540	M	<u>g 1 1 2015</u>
0506E (2007/12)	nter for Ontario, 2007	Ministry's Copy				

Mandy Witteman

From: Public Information Services <publicinformationservices@tssa.org>

Sent: May 16, 2022 11:36 AM To: Mandy Witteman

Subject: RE: Search records request (PE5743)

Please refrain from sending documents to head office and only submit your requests electronically via email along with credit card payment. We are all working remotely and mailing in applications with cheques will lengthen the overall processing time.

NO RECORD FOUND

Hello Mandy,

Thank you for your request for confirmation of public information.

We confirm that there are no records in our database of any fuel storage tanks at the subject addresses.

For a further search in our archives please complete our release of public information form found at https://www.tssa.org/en/about-tssa/release-of-public-information.aspx? mid =392 and email the completed form to publicinformationservices@tssa.org along with a fee of \$56.50 (including HST) per location. The fee is payable with credit card (Visa or MasterCard).

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

Kind regards,

Mariah



Public Information Agent

Facilities and Business Services 345 Carlingview Drive Toronto, Ontario M9W 6N9

Tel: +1-416-734-6222 | Fax: +1-416-734-3568 | E-Mail: publicinformationservices@tssa.org

From: Mandy

Witteman











<MWitteman@patersongroup.ca> Sent: May 14, 2022 11:52 AM

To: Public Information Services <publicinformationservices@tssa.org>

Subject: Search records request (PE5743)

[CAUTION]: This email originated outside the organisation.

Please do not click links or open attachments unless you recognise the source of this email and know the content is safe.

Good morning

Could you please complete a search of your records for underground/aboveground storage tanks, historical spills or other incidents/infractions for the following addresses in Ottawa, ON:

Fair Oaks Crescent: 19, 21, 23, 25, 27, 29, 31, 48, 50, 52

Thank you

Regards,

Mandy Witteman, B.Eng., M.A.Sc. Environmental Engineer (she/her)

patersongroup

solution oriented engineering over 60 years servicing our clients

154 Colonnade Road South Ottawa, Ontario, K2E 7J5 Tel: (613) 226-7381 Ext. 339

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	Office Use Only		
Application Number:	Ward Number:	Application Received:	(dd/mm/yyyy):
Client Service Centre Staff:		Fee Received: \$	



Historic Land Use Inventory

Application Form

Notice of Public Record

All information and materials required in support of your application shall be made available to the public, as indicated by Section 1.0.1 of *The Planning Act*, R.S.O. 1990, C.P.13.

Municipal Freedom of Information and Protection Act

Personal information on this form is collected under the authority the *Planning Act*, RSO 1990, c. P. 13 and will be used to process this application. Questions about this collection may be directed by mail to Manager, Business Support Services, Planning, Real Estate and Economic Development Department, 110 Laurier Avenue West, Ottawa, K1P 1J1, or by phone at (613) 580-2424, ext. 24075

	Background Information								
*Site Address or Location:	25 Fair Oaks Crescent, O	ttawa							
	* Mandatory Field								
Applicant/Agent I	nformation:								
Name:	Mandy Witteman								
Mailing Address:	154 Colonnade Rd S, Ottawa								
Telephone:	613-226-7381	Email Address:	mwitteman@patersongroup.ca						
Registered Prope	rty Owner Information:	Same as abov	ve						
Name:	Mr. Rizak Abdullahi (RATI (Group Ltd.)							
Mailing Address:	154 Colonnade Rd S								
Telephone:	613-226-7381	Email Address:	rizak@ratigroup.com						

Page 1 of 3 January 1, 2022

Site Details								
	Residential m Lot depth: m Lot area: m² area: (irregular lot) 520 m² e have Full Municipal Services: Yes No							
	Required Fees							
Please don't hesitate to visit the Historic Land Use Inventory website more information. Fees must be paid in full at the time of application submission. Planning Fee \$132.00								
	Submittal Requirements							

The following are required to be submitted with this application:

- 1. Consent to Disclose Information: Consultants and other third parties may make requests for information on behalf of an individual or corporation. However, if the requester is not the owner of the property, the requester must provide the City of Ottawa with a 'consent to disclose information' letter, signed by the property owner. This will authorize the City of Ottawa to release any relevant information about the property or its owner(s) to the requester. Consent for disclosure is required in the event that personal information or proprietary company information is found concerning the property and its owner. All consents must clearly indicate the name of the property owner as well as the name of the requester, and must be signed and dated.
- 2. Disclaimer: Requesters must read and understand the conditions included in the attached disclaimer and submit a signed disclaimer to the City of Ottawa's Planning, Real Estate and Economic Development Department. This disclaimer is related to the Historic Land Use Inventory and must be received by the City of Ottawa, signed and dated by the requestor, before the process can begin.
- 3. A site plan or key plan of the property, its location and particular features.
- 4. Any significant dates or time frames that you would like researched.

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 Paterson Group Inc. ("the Requester") does so only under the following conditions and understanding:

- 1. 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 on an "as is" basis with no representation or warranty by the City with respect to the information's accuracy or exhaustiveness in responding to the request.
- 2. 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 provided by the City to the Requester is provided on the assumption that it will not be relied upon by any person whatsoever. The City denies all liability to any such persons attempting to rely on any information provided from the HLUI database.
- 3. 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.
- 4. Copyright is reserved to the City.
- 5. 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.
- 6. Any use of this service by the Requestor indicates an acknowledgement, acceptance and limits of this disclaimer.

7. 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. M.56, as amended.

Signed:

Dated (dd/mm/yyyy):

10/05/2022

Per:

Mandy Witteman

(Please print name)

Company:

Title: Environmental Engineer

Paterson Group Inc.



Project Property: PE5743 - 25 Fair Oaks Crescent

PE5743 - 25 Fair Oaks Crescent

Nepean ON K2G 4W6

Project No: 54621

Report Type: Standard Report Order No: 22051000855

Requested by: Paterson Group Inc.

Date Completed: May 13, 2022

Table of Contents

Table of Contents	2
Executive Summary	
Executive Summary: Report Summary	4
Executive Summary: Site Report Summary - Project Property	6
Executive Summary: Site Report Summary - Surrounding Properties	7
Executive Summary: Summary By Data Source	
Map	10
Aerial	
Topographic Map	12
Detail Report	13
Unplottable Summary	
Unplottable Report	28
Appendix: Database Descriptions	30
Definitions	39

Notice: IMPORTANT LIMITATIONS and YOUR LIABILITY

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

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Executive Summary

Property Information:

Project Property: PE5743 - 25 Fair Oaks Crescent

PE5743 - 25 Fair Oaks Crescent Nepean ON K2G 4W6

Order No: 22051000855

Project No: 54621

Coordinates:

 Latitude:
 45.3358197

 Longitude:
 -75.756973

 UTM Northing:
 5,020,535.49

 UTM Easting:
 440,688.50

UTM Zone: 18T

Elevation: 275 FT

83.87 M

Order Information:

Order No: 22051000855

Date Requested: May 10, 2022

Requested by: Paterson Group Inc.

Report Type: Standard Report

Historical/Products:

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Within 0.25 km	Total
AAGR	Abandoned Aggregate Inventory	Υ	0	0	0
AGR	Aggregate Inventory	Υ	0	0	0
AMIS	Abandoned Mine Information System	Υ	0	0	0
ANDR	Anderson's Waste Disposal Sites	Υ	0	0	0
AST	Aboveground Storage Tanks	Υ	0	0	0
AUWR	Automobile Wrecking & Supplies	Υ	0	0	0
BORE	Borehole	Υ	0	2	2
CA	Certificates of Approval	Υ	0	0	0
CDRY	Dry Cleaning Facilities	Υ	0	0	0
CFOT	Commercial Fuel Oil Tanks	Υ	0	0	0
CHEM	Chemical Manufacturers and Distributors	Υ	0	0	0
CHM	Chemical Register	Υ	0	0	0
CNG	Compressed Natural Gas Stations	Υ	0	0	0
COAL	Inventory of Coal Gasification Plants and Coal Tar Sites	Y	0	0	0
CONV	Compliance and Convictions	Υ	0	0	0
CPU	Certificates of Property Use	Υ	0	0	0
DRL	Drill Hole Database	Υ	0	0	0
DTNK	Delisted Fuel Tanks	Y	0	0	0
EASR	Environmental Activity and Sector Registry	Υ	0	0	0
EBR	Environmental Registry	Y	0	0	0
ECA	Environmental Compliance Approval	Υ	0	0	0
EEM	Environmental Effects Monitoring	Y	0	0	0
EHS	ERIS Historical Searches	Y	0	0	0
EIIS	Environmental Issues Inventory System	Y	0	0	0
EMHE	Emergency Management Historical Event	Y	0	0	0
EPAR	Environmental Penalty Annual Report	Y	0	0	0
EXP	List of Expired Fuels Safety Facilities	Υ	0	0	0
FCON	Federal Convictions	Υ	0	0	0
FCS	Contaminated Sites on Federal Land	Υ	0	0	0
FOFT	Fisheries & Oceans Fuel Tanks	Υ	0	0	0
FRST	Federal Identification Registry for Storage Tank Systems (FIRSTS)	Y	0	0	0
FST	Fuel Storage Tank	Y	0	0	0
FSTH	Fuel Storage Tank - Historic	Y	0	0	0
GEN	Ontario Regulation 347 Waste Generators Summary	Y	0	0	0
GHG	Greenhouse Gas Emissions from Large Facilities	Y	0	0	0
HINC	TSSA Historic Incidents	Y	0	0	0
IAFT	Indian & Northern Affairs Fuel Tanks	Υ	0	0	0

Database	Name	Searched	Project Property	Within 0.25 km	Total
INC	Fuel Oil Spills and Leaks	Υ	0	0	0
LIMO	Landfill Inventory Management Ontario	Υ	0	0	0
MINE	Canadian Mine Locations	Υ	0	0	0
MNR	Mineral Occurrences	Υ	0	0	0
NATE	National Analysis of Trends in Emergencies System	Υ	0	0	0
NCPL	(NATES) Non-Compliance Reports	Υ	0	0	0
NDFT	National Defense & Canadian Forces Fuel Tanks	Υ	0	0	0
NDSP	National Defense & Canadian Forces Spills	Υ	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal	Υ	0	0	0
NEBI	Sites National Energy Board Pipeline Incidents	Υ	0	0	0
NEBP	National Energy Board Wells	Υ	0	0	0
NEES	National Environmental Emergencies System (NEES)	Υ	0	0	0
NPCB	National PCB Inventory	Υ	0	0	0
NPRI	National Pollutant Release Inventory	Υ	0	0	0
OGWE	Oil and Gas Wells	Υ	0	0	0
OOGW	Ontario Oil and Gas Wells	Υ	0	0	0
OPCB	Inventory of PCB Storage Sites	Υ	0	0	0
ORD	Orders	Υ	0	0	0
PAP	Canadian Pulp and Paper	Υ	0	0	0
PCFT	Parks Canada Fuel Storage Tanks	Υ	0	0	0
PES	Pesticide Register	Υ	0	3	3
PINC	Pipeline Incidents	Υ	0	0	0
PRT	Private and Retail Fuel Storage Tanks	Υ	0	0	0
PTTW	Permit to Take Water	Υ	0	0	0
REC	Ontario Regulation 347 Waste Receivers Summary	Υ	0	0	0
RSC	Record of Site Condition	Υ	0	0	0
RST	Retail Fuel Storage Tanks	Υ	0	0	0
SCT	Scott's Manufacturing Directory	Υ	0	0	0
SPL	Ontario Spills	Υ	0	2	2
SRDS	Wastewater Discharger Registration Database	Υ	0	0	0
TANK	Anderson's Storage Tanks	Υ	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Υ	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	0	2	2
		Total:	0	9	9

Executive Summary: Site Report Summary - Project Property

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

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

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
1	WWIS		lot 32 con 2 ON	NNE/94.9	-1.00	<u>13</u>
			Well ID: 1517696			
<u>2</u>	PES	2588813 ONTARIO INC O/A THOMAS LAWN CARE	21 SOVEREIGN AVE OTTAWA ON K2G4W8	SE/131.1	-0.41	<u>17</u>
<u>2</u>	PES	2588813 ONTARIO INC O/A THOMAS LAWN CARE	21 SOVEREIGN AVE OTTAWA ON K2G4W8	SE/131.1	-0.41	<u>17</u>
<u>2</u>	PES	2588813 ONTARIO INC O/A THOMAS LAWN CARE	21 SOVEREIGN AVE OTTAWA ON K2G4W8	SE/131.1	-0.41	<u>18</u>
<u>3</u>	BORE		ON	E/142.8	-0.96	<u>18</u>
<u>4</u>	WWIS		lot 31 con 2 ON	ENE/148.0	-0.96	<u>20</u>
			Well ID: 1506021			
<u>5</u>	BORE		ON	ENE/148.1	-0.96	<u>23</u>
<u>6</u>	SPL	Miller Waste Systems Inc.	88 Pinetrail Crescent Ottawa ON	N/170.0	-1.00	<u>25</u>
<u>7</u> '	SPL		77 to 79 Pine Trail Crescent Ottawa ON	WNW/249.6	0.00	<u>25</u>

Executive Summary: Summary By Data Source

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2018 has found that there are 2 BORE site(s) within approximately 0.25 kilometers of the project property.

Lower Elevation	<u>Address</u>	Direction	Distance (m)	Map Key
	ON	E	142.80	<u>3</u>
	ON	ENE	148.06	<u>5</u>

PES - Pesticide Register

A search of the PES database, dated Oct 2011- Mar 31, 2022 has found that there are 3 PES site(s) within approximately 0.25 kilometers of the project property.

Lower Elevation	<u>Address</u>	<u>Direction</u>	Distance (m)	Map Key
2588813 ONTARIO INC O/A THOMAS LAWN CARE	21 SOVEREIGN AVE OTTAWA ON K2G4W8	SE	131.12	2
2588813 ONTARIO INC O/A THOMAS LAWN CARE	21 SOVEREIGN AVE OTTAWA ON K2G4W8	SE	131.12	<u>2</u>
2588813 ONTARIO INC O/A THOMAS LAWN CARE	21 SOVEREIGN AVE OTTAWA ON K2G4W8	SE	131.12	<u>2</u>

SPL - Ontario Spills

A search of the SPL database, dated 1988-Sep 2020; Dec 2020-Mar 2021 has found that there are 2 SPL site(s) within approximately 0.25 kilometers of the project property.

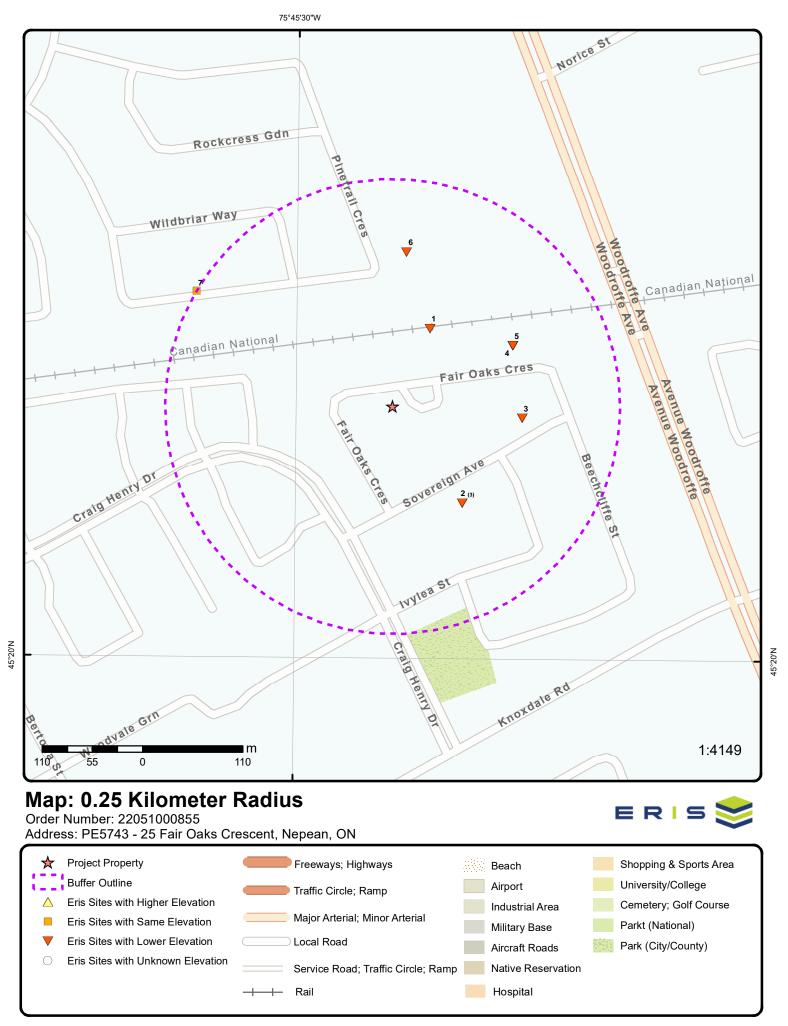
Equal/Higher Elevation	<u>Address</u>	<u>Direction</u> <u>Distance (m)</u>		<u>Map Key</u>	
	77 to 79 Pine Trail Crescent Ottawa ON	WNW	249.64	<u>7</u>	

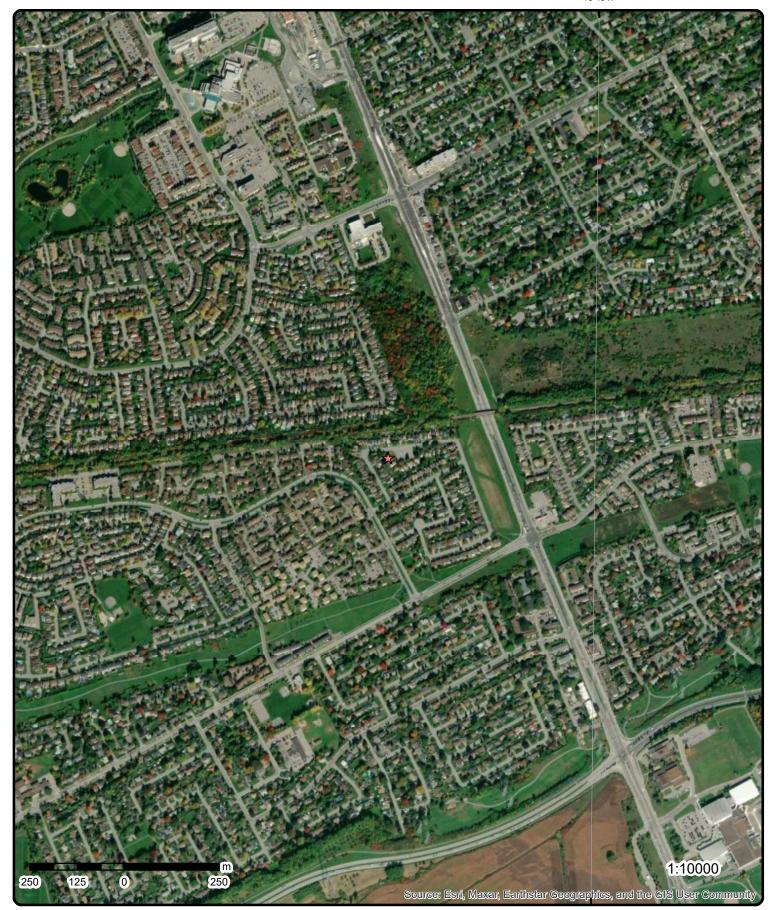
Lower Elevation	<u>Address</u>	Direction	Distance (m)	<u>Map Key</u>
Miller Waste Systems Inc.	88 Pinetrail Crescent Ottawa ON	N	170.05	<u>6</u>

WWIS - Water Well Information System

A search of the WWIS database, dated Sep 30, 2021 has found that there are 2 WWIS site(s) within approximately 0.25 kilometers of the project property.

Lower Elevation	<u>Address</u>	<u>Direction</u>	Distance (m)	<u>Map Key</u>
	lot 32 con 2 ON	NNE	94.92	1
	Well ID: 1517696			
	lot 31 con 2 ON	ENE	147.99	<u>4</u>
	Well ID: 1506021			





Aerial Year: 2021

Source: ESRI World Imagery

Address: PE5743 - 25 Fair Oaks Crescent, Nepean, ON

ERIS 📚

Order Number: 22051000855

Topographic Map

Address: PE5743 - 25 Fair Oaks Crescent, ON

Source: ESRI World Topographic Map

Order Number: 22051000855



Detail Report

Map Key	Number of Records	f Direction/ Distance (m)	Elev/Diff (m)	Site		DB
1	1 of 1	NNE/94.9	82.9 / -1.00	lot 32 con 2 ON		wwis
Well ID: Construction Primary Wate Sec. Water U Final Well St Water Type: Casing Mate Audit No: Tag: Construction Elevation (m Elevation Re Depth to Bed Well Depth: Overburden/ Pump Rate: Static Water Flowing (Y/N Flow Rate:	n Date: er Use: C Ise: 0 ratus: V rial: n Method:): cliability: drock: (Bedrock:	517696 Commerical Vater Supply		Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name: County: Municipality: Site Info: Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	1 1/13/1982 TRUE 3644 1 OTTAWA NEPEAN TOWNSHIP 032 02 RF	

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1517696.pdf

Additional Detail(s) (Map)

 Well Completed Date:
 1981/10/20

 Year Completed:
 1981

 Depth (m):
 39.624

 Latitude:
 45.336592854214

 Longitude:
 -75.7564575272358

 Path:
 151\1517696.pdf

Bore Hole Information

 Bore Hole ID:
 10039568
 Elevation:

 DP2BR:
 Elevrc:

 Spatial Status:
 Zone:
 18

 Code OB:
 East83:
 440729.70

 Code OB Desc:
 North83:
 5020621.00

 Open Hole:
 Org CS:

Cluster Kind: UTMRC:

 Date Completed:
 20-Oct-1981 00:00:00
 UTMRC Desc:
 margin of error : 30 m - 100 m

 Remarks:
 Location Method:
 p4

Order No: 22051000855

Location Source Date: Improvement Location Source:

Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:

Overburden and Bedrock

Elevrc Desc:

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

Materials Interval

Formation ID: 931036012

 Layer:
 3

 Color:
 2

 General Color:
 GREY

 Mat1:
 14

Most Common Material:HARDPANMat2:12Mat2 Desc:STONES

Mat3: Mat3 Desc:

Formation Top Depth: 30.0 Formation End Depth: 32.0 Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931036010

 Layer:
 1

 Color:
 2

 General Color:
 GREY

 Mat1:
 28

 Most Common Material:
 SAND

 Mat2:
 02

 Mat2 Desc:
 TOPSOIL

Mat3: Mat3 Desc:

Formation Top Depth: 0.0 Formation End Depth: 8.0 Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931036011

 Layer:
 2

 Color:
 2

 General Color:
 GREY

 Mat1:
 14

 Most Common Material:
 HARDPAN

Mat2: Mat2 Desc: Mat3: Mat3 Desc:

Formation Top Depth: 8.0
Formation End Depth: 30.0
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931036015

 Layer:
 6

 Color:
 2

 General Color:
 GREY

 Mat1:
 15

Most Common Material:

Mat2:

Mat2 Desc:

SHALY

Mat3: Mat3 Desc: Map Key Number of Direction/ Elev/Diff Site DB
Records Distance (m) (m)

Formation Top Depth: 48.0 Formation End Depth: 130.0 Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931036014

 Layer:
 5

 Color:
 2

 General Color:
 GREY

 Mat1:
 11

 Most Common Material:
 GRAVEL

Mat2: Mat2 Desc: Mat3: Mat3 Desc:

Formation Top Depth: 40.0 Formation End Depth: 48.0 Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931036013

 Layer:
 4

 Color:
 2

 General Color:
 GREY

 Mat1:
 14

 Most Common Material:
 HARDPAN

Mat2: Mat2 Desc: Mat3: Mat3 Desc:

Formation Top Depth: 32.0 Formation End Depth: 40.0 Formation End Depth UOM: ft

Method of Construction & Well

<u>Use</u>

Method Construction ID: 961517696

Method Construction Code:

Method Construction: Air Percussion

Other Method Construction:

Pipe Information

Pipe ID: 10588138

Casing No: 1

Comment: Alt Name:

Construction Record - Casing

Casing ID: 930069171

Layer: 1
Material: 1
Open Hole or Material: STEEL

Depth From:

Depth To: 52.0 Casing Diameter: 6.0

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

Casing Diameter UOM: inch Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930069172

Layer: 2 Material: 4

Open Hole or Material:

OPEN HOLE

No

Depth From:

Depth To: 130.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991517696

Pump Set At:

Static Level:25.0Final Level After Pumping:80.0Recommended Pump Depth:80.0Pumping Rate:6.0

Flowing Rate:

Flowing:

Recommended Pump Rate: 6.0

Levels UOM: ft
Rate UOM: GPM

Water State After Test Code: 2

Water State After Test: CLOUDY

Pumping Test Method: 1

Pumping Duration HR: 1

Pumping Duration MIN: 0

Draw Down & Recovery

 Pump Test Detail ID:
 934376113

 Test Type:
 Draw Down

 Test Duration:
 30

 Test Level:
 80.0

 Test Level UOM:
 ft

Draw Down & Recovery

 Pump Test Detail ID:
 934646365

 Test Type:
 Draw Down

 Test Duration:
 45

 Test Level:
 80.0

 Test Level UOM:
 ft

Draw Down & Recovery

 Pump Test Detail ID:
 934895640

 Test Type:
 Draw Down

 Test Duration:
 60

 Test Level:
 80.0

 Test Level UOM:
 ft

Draw Down & Recovery

Pump Test Detail ID: 934102224

Map Key	Number Record		Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Test Type: Test Duration Test Level: Test Level U			Draw Down 15 80.0 ft				
Water Details	i						
Water ID: Layer: Kind Code: Kind: Water Found Water Found		M :	933474219 1 5 Not stated 80.0 ft				
Water Details	i						
Water ID: Layer: Kind Code: Kind: Water Found Water Found		M :	933474220 2 5 Not stated 125.0 ft				
<u>2</u>	1 of 3		SE/131.1	83.5 / -0.41	2588813 ONTARIO INC CARE 21 SOVEREIGN AVE OTTAWA ON K2G4W8	C O/A THOMAS LAWN	PES
Detail Licence Licence No: Status: Approval Date Report Source Licence Type Licence Classicence Content Latitude: Longitude: Lot: Concession: Region: District: County: Trade Name: PDF Link: PDF Site Loce	te: ce: e Code: s: trol:	09044 Legacy I Operato 02 01	Licenses (Excluding r	TS)	Operator Box: Operator Class: Operator No: Operator Type: Oper Area Code: Oper Phone No: Operator Ext: Operator Lot: Oper Concession: Operator Region: Operator District: Operator County: Op Municipality: Post Office Box: MOE District: SWP Area Name:	613 6580002	
2	2 of 3		SE/131.1	83.5 / -0.41	2588813 ONTARIO INC CARE 21 SOVEREIGN AVE OTTAWA ON K2G4W8	C O/A THOMAS LAWN	PES
Detail Licence Licence No: Status: Approval Dat Report Source Licence Type Licence Class Licence Cont	te: :e: e: e: Code: s:	08877 Legacy I Operato 02 01	Licenses (Excluding r	TS)	Operator Box: Operator Class: Operator No: Operator Type: Oper Area Code: Oper Phone No: Operator Ext: Operator Lot: Oper Concession:	613 6580002	

Number of Direction/ Elev/Diff Site DΒ Map Key Records Distance (m) (m) Latitude: Operator Region: Longitude: Operator District: Lot: **Operator County:** Concession: Op Municipality: Region: Post Office Box: **MOE District:** District: County: SWP Area Name: Trade Name: PDF Link: PDF Site Location: 3 of 3 SE/131.1 83.5 / -0.41 2588813 ONTARIO INC O/A THOMAS LAWN 2 **PES CARE** 21 SOVEREIGN AVE OTTAWA ON K2G4W8 Detail Licence No: Operator Box: Licence No: 10281 Operator Class: Status: Operator No: Approval Date: Operator Type: Report Source: Legacy Licenses (Excluding TS) Oper Area Code: 613 6580002 Licence Type: Operator Oper Phone No: Licence Type Code: 02 Operator Ext: Licence Class: 01 Operator Lot: Licence Control: Oper Concession: Latitude: Operator Region: Longitude: Operator District: Lot: **Operator County:** Concession: Op Municipality: Post Office Box: Region: District: **MOE District:** SWP Area Name: County: Trade Name: PDF Link: PDF Site Location: E/142.8 1 of 1 82.9 / -0.96 3 **BORE** ON Borehole ID: 612378 Inclin FLG: No 215513687 Initial Entry OGF ID: SP Status: Status: Surv Elev: No Borehole Type: Piezometer: No Use: Primary Name: Completion Date: Municipality: Static Water Level: 2.1 Lot: Primary Water Use: Township: Sec. Water Use: Latitude DD: 45.335712 Total Depth m: -999 Longitude DD: -75.755157 Depth Ref: **Ground Surface** UTM Zone: 18 440831 Depth Elev: Easting: Drill Method: Northing: 5020522 Orig Ground Elev m: 86.9 Location Accuracy: Elev Reliabil Note: Not Applicable Accuracy: DEM Ground Elev m: 88 Concession: Location D: Survey D:

Order No: 22051000855

Borehole Geology Stratum

Comments:

Geology Stratum ID: 218391059 Mat Consistency: Soft

Top Depth:39.6Material Moisture:Bottom Depth:Material Texture:

Material Color:GreyNon Geo Mat Type:Material 1:BedrockGeologic Formation:Material 2:SandstoneGeologic Group:Material 3:Geologic Period:Material 4:Depositional Gen:

Gsc Material Description:

Stratum Description: BEDROCK, SANDSTONE. FF, FISSURED. CLAY, SILT. GREY, SOFT, FISSURED. 00010 044 00100 055 0 **Note:

Many records provided by the department have a truncated [Stratum Description] field.

Geology Stratum ID:218391056Mat Consistency:Top Depth:0Material Moisture:Bottom Depth:12.8Material Texture:Material Color:Non Geo Mat Type:Material 1:ClayGeologic Formation:

Material 1:ClayGeologic FormationMaterial 2:SandGeologic Group:Material 3:Geologic Period:Material 4:Depositional Gen:

Gsc Material Description:

Stratum Description: CLAY, SAND.

Geology Stratum ID: 218391058 Mat Consistency: Top Depth: 22.6 Material Moisture: **Bottom Depth:** 39.6 Material Texture: Material Color: Non Geo Mat Type: Grey Material 1: Bedrock Geologic Formation: Material 2: Limestone Geologic Group: Material 3: Geologic Period: Material 4: Depositional Gen:

Gsc Material Description:

Stratum Description: BEDROCK,LIMESTONE. GREY.

Geology Stratum ID:218391057Mat Consistency:Top Depth:12.8Material Moisture:Bottom Depth:22.6Material Texture:Material Color:Non Geo Mat Type:Material 1:SandGeologic Formation:

Material 2: Geologic Formation
Material 2: Geologic Group:
Material 3: Geologic Period:
Material 4: Depositional Gen:

Gsc Material Description:

SAND. WATER STABLE AT 278.1 FEET.

Source

Source Type: Data Survey Source Appl: Spatial/Tabular

Source Orig:Geological Survey of CanadaSource Iden:1Source Date:1956-1972Scale or Res:VariesConfidence:MHorizontal:NAD27

Observatio: Verticalda: Mean Average Sea Level

Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: OTTAWA1.txt RecordID: 048860 NTS_Sheet: 31G05C

Confiden 1: Reliable information but incomplete.

Source List

Source Identifier: 1 Horizontal Datum: NAD27

Source Type:Data SurveyVertical Datum:Mean Average Sea LevelSource Date:1956-1972Projection Name:Universal Transverse Mercator

Order No: 22051000855

Scale or Resolution: Varies

Source Name: Urban Geology Automated Information System (UGAIS)

Source Originators:

Geological Survey of Canada

4 1 of 1 ENE/148.0 82.9 / -0.96 lot 31 con 2 WWIS

Well ID: 1506021 Data Entry Status:

Construction Date: Data Src:

Primary Water Use:IndustrialDate Received:12/19/1958Sec. Water Use:0Selected Flag:TRUE

Final Well Status:Water SupplyAbandonment Rec:Water Type:Contractor:3701Casing Material:Form Version:1

Audit No: Owner:
Tag: Street Name:

Construction Method: County: OTTAWA

Elevation (m):Municipality:NEPEAN TOWNSHIPElevation Reliability:Site Info:

 Depth to Bedrock:
 Lot:
 031

 Well Depth:
 Concession:
 02

 Overburden/Bedrock:
 Concession Name:
 RF

 Overburden/Bedrock:
 Concession Name:
 RI

 Pump Rate:
 Easting NAD83:

 Static Water Level:
 Northing NAD83:

Flowing (Y/N): Zone:

Flow Rate: UTM Reliability: Clear/Cloudy:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1506021.pdf

Additional Detail(s) (Map)

 Well Completed Date:
 1958/08/15

 Year Completed:
 1958

 Depth (m):
 40.2336

 Latitude:
 45.3364295283937

 Longitude:
 -75.7552939364887

 Path:
 150\1506021.pdf

Bore Hole Information

 Bore Hole ID:
 10028064
 Elevation:

 DP2BR:
 Elevrc:

 Spatial Status:
 Zone:
 18

 Code OB:
 East83:
 440820.70

 Code OB Desc:
 North83:
 5020602.00

Open Hole: Org CS: Cluster Kind: UTMRC:

Date Completed: 15-Aug-1958 00:00:00 **UTMRC Desc:** margin of error : 100 m - 300 m

Order No: 22051000855

Remarks: Location Method: p

Location Source Date:

Improvement Location Source: Improvement Location Method: Source Revision Comment:

Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 931003579

 Layer:
 4

 Color:
 2

 General Color:
 GREY

Mat1: 15

Most Common Material: LIMESTONE

Mat2: Mat2 Desc: Mat3: Mat3 Desc:

Formation Top Depth: 74.0
Formation End Depth: 130.0
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931003578

Layer:

Color:

General Color:

Mat1: 09

Most Common Material: MEDIUM SAND

Mat2: Mat2 Desc: Mat3: Mat3 Desc:

Formation Top Depth: 42.0 Formation End Depth: 74.0 Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931003580

Layer: 5
Color:

General Color:

Mat1: 18

Most Common Material: SANDSTONE

Mat2: Mat2 Desc: Mat3: Mat3 Desc:

Formation Top Depth: 130.0 Formation End Depth: 132.0 Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931003577

Layer: 2 Color:

General Color:

Mat1: 05
Most Common Material: CLAY

Most Common Material: CL/ Mat2: 09

Mat2 Desc: MEDIUM SAND

Mat3: Mat3 Desc:

Formation Top Depth: 2.0
Formation End Depth: 42.0
Formation End Depth UOM: ft

Overburden and Bedrock

Order No: 22051000855

Materials Interval

Formation ID: 931003576

 Layer:
 1

 Color:
 8

 General Color:
 BLACK

 Mat1:
 03

 Most Common Material:
 MUCK

Mat2: Mat2 Desc: Mat3: Mat3 Desc:

Formation Top Depth: 0.0 Formation End Depth: 2.0 Formation End Depth UOM: ft

Method of Construction & Well

<u>Use</u>

Method Construction ID:961506021Method Construction Code:1

Method Construction: Cable Tool

Other Method Construction:

Pipe Information

 Pipe ID:
 10576634

 Casing No:
 1

Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930048878

Layer: 2

Material: 4

Open Hole or Material: OPEN HOLE Depth From:

Depth To: 132.0
Casing Diameter: 8.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930048877

Layer: 1
Material: 1
Open Hole or Material: STEEL

Depth From:

Depth To: 76.0
Casing Diameter: 8.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991506021

Pump Set At:

Static Level: 4.0 Final Level After Pumping: 7.0

Recommended Pump Depth:

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

50.0 **Pumping Rate:**

Flowing Rate:

Recommended Pump Rate:

Levels UOM: ft Rate UOM: **GPM** Water State After Test Code: Water State After Test: **CLEAR** Pumping Test Method: **Pumping Duration HR:** 48 **Pumping Duration MIN:** 0 No Flowing:

Water Details

Water ID: 933460081

Layer: Kind Code:

FRESH Kind: Water Found Depth: 100.0 Water Found Depth UOM:

Water Details

933460082 Water ID:

Layer: 2 Kind Code:

FRESH Kind: Water Found Depth: 132.0 Water Found Depth UOM: ft

1 of 1 ENE/148.1 82.9 / -0.96 5 **BORE** ON

45.336431

Order No: 22051000855

Inclin FLG: 612382 Borehole ID: No

OGF ID: 215513691 SP Status: Initial Entry Status: Surv Elev: No Borehole Piezometer: No Type:

Use: Primary Name: Completion Date: AUG-1958 Municipality: Lot:

Static Water Level: Primary Water Use:

Township: Sec. Water Use: Latitude DD:

Total Depth m: 40.2 Longitude DD: -75.755294 **Ground Surface** Depth Ref: UTM Zone: 18

Depth Elev: Easting: 440821 Drill Method: Northing: 5020602 Oria Ground Elev m: Location Accuracy: 88.4

Not Applicable Elev Reliabil Note: Accuracy: 88.9 DEM Ground Elev m:

Concession: Location D: Survey D: Comments:

Borehole Geology Stratum

218391076 Geology Stratum ID: Mat Consistency: Top Depth: Material Moisture: **Bottom Depth:** 12.8 Material Texture:

Material Color: Non Geo Mat Type: Clay Material 1: Geologic Formation: Material 2: Sand Geologic Group:

Map Key Number of Direction/ Elev/Diff Site DB

Records Distance (m) (m)

Material 3: Geologic Period:
Material 4: Depositional Gen:

Gsc Material Description:

Stratum Description: CLAY, SAND.

Geology Stratum ID: 218391079 Mat Consistency: Compact

Top Depth: 39.6 Material Moisture:

Bottom Depth: 40.2 Material Texture: Fine to Medium

Material Color:BrownNon Geo Mat Type:Material 1:SandstoneGeologic Formation:Material 2:Geologic Group:Material 3:Geologic Period:Material 4:Depositional Gen:

Gsc Material Description:

Stratum Description: SANDSTONE. 00132,FIRM. CLAY,SILT. GREY,BROWN,STIFF. SAND,CLAY-FINE TO MEDIUM. BROWN,

COMPACT **Note: Many records provided by the department have a truncated [Stratum Description] field.

Order No: 22051000855

218391075 Geology Stratum ID: Mat Consistency: Top Depth: 0 Material Moisture: **Bottom Depth:** .6 Material Texture: Material Color: Black Non Geo Mat Type: Material 1: Muck Geologic Formation: Material 2: Geologic Group: Material 3: Geologic Period:

Material 4: Depositional Gen: muck

Gsc Material Description:

Stratum Description: MUCK. BLACK.

Geology Stratum ID:218391077Mat Consistency:Top Depth:12.8Material Moisture:Bottom Depth:22.6Material Texture:Material Color:Non Geo Mat Type:Material 1:SandGeologic Formation:Material 2:Geologic Group:

Material 2: Geologic Group:
Material 3: Geologic Period:
Material 4: Depositional Gen:

Gsc Material Description:

Stratum Description: SAND.

Geology Stratum ID: 218391078 Mat Consistency: 22.6 Material Moisture: Top Depth: **Bottom Depth:** Material Texture: 39.6 Material Color: Non Geo Mat Type: Grey Material 1: Limestone Geologic Formation: Material 2: Geologic Group: Material 3: Geologic Period: Depositional Gen: Material 4:

Gsc Material Description:

Stratum Description: LIMESTONE. GREY.

Source

Source Type: Data Survey Source Appl: Spatial/Tabular

Source Orig:Geological Survey of CanadaSource Iden:1Source Date:1956-1972Scale or Res:VariesConfidence:Horizontal:NAD27

Observatio: Verticalda: Mean Average Sea Level

Source Name: Urban Geology Automated Information System (UGAIS)

Source Details: File: OTTAWA1.txt RecordID: 04890 NTS_Sheet:

Confiden 1:

Source List

Source Identifier: 1 Horizontal Datum: NAD27

Direction/ Elev/Diff Site DΒ Map Key Number of (m)

Records Distance (m)

Vertical Datum: Source Type: **Data Survey** Mean Average Sea Level Source Date: 1956-1972 **Projection Name:** Universal Transverse Mercator

Scale or Resolution: Varies

Source Name: Urban Geology Automated Information System (UGAIS)

Source Originators: Geological Survey of Canada

Miller Waste Systems Inc. 6 1 of 1 N/170.0 82.9 / -1.00

88 Pinetrail Crescent

SPL

Order No: 22051000855

Ottawa ON

Ref No: 6111-BNZJN5 Discharger Report: Site No: NA Material Group:

Incident Dt: 2020/04/25 Health/Env Conseq: 2 - Minor Environment

Client Type: Corporation

Miscellaneous Industrial Sector Type: Agency Involved: Leak/Break

Incident Event: Contaminant Code: Nearest Watercourse:

HYDRAULIC OIL 88 Pinetrail Crescent Contaminant Name: Site Address: Site District Office: Ottawa

Contaminant Limit 1: Contam Limit Freq 1: Site Postal Code: Contaminant UN No 1: n/a Site Region: Eastern

Environment Impact: Site Municipality: Ottawa

Nature of Impact: Site Lot: Receiving Medium: Site Conc:

Receiving Env: Land Northing: 5020723.88 Easting: 440669.62 MOE Response: No

Dt MOE Arvl on Scn: Site Geo Ref Accu: 2020/04/25 MOE Reported Dt: Site Map Datum: Dt Document Closed: 2020/07/17 SAC Action Class:

Incident Reason: Material Failure - Poor Design/Substandard Source Type: Valve/Fitting/Piping

Material Site Name: Oil Leak to Asphalt<UNOFFICIAL>

Site County/District: Site Geo Ref Meth:

Year:

Incident Cause:

Incident Summary: Miller Waste: 45L hydraulic oil to asphalt, cleaning.

Contaminant Qtv:

1 of 1 WNW/249.6 83.9 / 0.00 77 to 79 Pine Trail Crescent 7 SPL Ottawa ON

7872-AYFMWB Ref No: Discharger Report: Site No: Material Group:

Incident Dt: 2018/05/04 Health/Env Conseq: 2 - Minor Environment Year: Client Type:

Incident Cause: Sector Type: Miscellaneous Communal Agency Involved: **Dumping** Incident Event:

Contaminant Code: Nearest Watercourse: 77 to 79 Pine Trail Crescent Contaminant Name: Oily Water Site Address:

Contaminant Limit 1: Site District Office: Ottawa Contam Limit Freq 1: Site Postal Code:

Contaminant UN No 1: n/a Site Region: Eastern **Environment Impact:** Site Municipality: Ottawa Nature of Impact: Site Lot:

Site Conc: Receiving Medium: Receiving Env: Surface Water Northing:

MOE Response: No Easting: Dt MOE Arvl on Scn: Site Geo Ref Accu:

MOE Reported Dt: 2018/05/04 Site Map Datum: Pollution Incident Reports (PIRs) and "Other" Dt Document Closed: SAC Action Class:

Incident Reason: Deliberate Act Source Type: Container/Drum/Tote

Residential Area<UNOFFICIAL> Site Name:

Site County/District:

Site Geo Ref Meth:

311: reported dumping of oily water to cb 75 $\ensuremath{\text{L}}$ Incident Summary: Contaminant Qty:

Order No: 22051000855

Unplottable Summary

Total: 4 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA	Congregation of Woodvale Pentecostal Church	Part of the North Half of Lot 31 and Concession 2	Ottawa ON	
CA	CARLING REALTY LTD.	EASEMENT CRAIG HENRY DR.	NEPEAN CITY ON	
LIMO		North Gower Lot 31 Concession 2 Ottawa	ON	
LIMO	Rideau Landfill The Corporation of the Township of Rideau City of Ottawa	Lot 31, Concession 2 Ottawa	ON	

Order No: 22051000855

Unplottable Report

Site: Congregation of Woodvale Pentecostal Church

Part of the North Half of Lot 31 and Concession 2 Ottawa ON

Approved

Database: CA

3872-6HPQCX Certificate #: Application Year: 2006 1/12/2006 Issue Date:

Municipal and Private Sewage Works Approval Type:

Status:

Application Type: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants:

Emission Control:

Site: CARLING REALTY LTD.

EASEMENT CRAIG HENRY DR. NEPEAN CITY ON

3-0340-88-Certificate #: Application Year: 88 3/23/1988 Issue Date: Municipal sewage Approval Type: Approved

Status: Application Type: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants:

Emission Control:

Site:

North Gower Lot 31 Concession 2 Ottawa ON

ECA/Instrument No: X1044 Oper Status 2016: Historic

C of A Issue Date: C of A Issued to: Lndfl Gas Mgmt (P): Lndfl Gas Mgmt (F): Lndfl Gas Mgmt (E): **Lndfl Gas Mgmt Sys:** Landfill Gas Mntr: Leachate Coll Sys:

ERC Est Vol (m3): **ERC Volume Unit:** ERC Dt Last Det: Landfill Type: Source File Type:

Fill Rate: Fill Rate Unit: Tot Fill Area (ha): Tot Site Area (ha): Historic and Closed Landfills

Lot: Concession: Latitude:

Natural Attenuation:

Cover Material:

Lndfll Gas Coll: Total Waste Rec:

TWR Unit:

Leachate Off-Site:

Leachate On Site:

Req Coll Lndfll Gas:

TWR Methodology:

Tot Aprv Cap Unit:

Last Report Year:

MOE Region:

MOE District:

Site County:

Financial Assurance:

Liners:

Longitude:

Database:

Database: LIMO

Order No: 22051000855

Footprint:

Tot Apprv Cap (m3): Contam Atten Zone: Grndwtr Mntr: Surf Wtr Mntr: Air Emis Monitor: Approved Waste Type: Client Site Name: ERC Methodology: Site Name: Easting: Northing: UTM Zone: Data Source:

Site Location Details:

North Gower Lot 31 Concession 2

Ottawa

Service Area: Page URL:

<u>Site:</u> Rideau Landfill The Corporation of the Township of Rideau City of Ottawa Lot 31, Concession 2 Ottawa ON

Natural Attenuation:

Database:

LIMO

Order No: 22051000855

Liners:

Cover Material:
Leachate Off-Site:
Leachate On Site:
Req Coll Lndfil Gas:
Lndfil Gas Coll:
Total Waste Rec:
TWR Methodology:
TWR Unit:

Tot Aprv Cap Unit: Financial Assurance: Last Report Year: MOE Region: MOE District: Site County:

Lot:

Concession:
Latitude:
Longitude:
Easting:
Northing:
UTM Zone:
Data Source:

ECA/Instrument No: A461202 Oper Status 2016: Closed

C of A Issue Date:
C of A Issued to:
Lndfl Gas Mgmt (P):
Lndfl Gas Mgmt (E):
Lndfl Gas Mgmt (E):
Lndfl Gas Mgmt Sys:
Landfill Gas Mntr:

Leachate Coll Sys: ERC Est Vol (m3): ERC Volume Unit: ERC Dt Last Det: Landfill Type: Source File Type: Fill Rate: Fill Rate Unit: Tot Fill Area (ha):

Tot Site Area (ha): Footprint: Tot Apprv Cap (m3): Contam Atten Zone: Grndwtr Mntr:

Grndwtr Mntr: Surf Wtr Mntr: Air Emis Monitor: Approved Waste Type: Client Site Name: ERC Methodology:

Site Name: Rideau Landfill

The Corporation of the Township of Rideau

City of Ottawa

Site Location Details:

Service Area: Page URL:

Appendix: Database Descriptions

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

Abandoned Aggregate Inventory:

Provincial

AGR

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

Government Publication Date: Sept 2002*

Aggregate Inventory:

Provincial AGR

The Ontario Ministry of Natural Resources maintains a database of all active pits and quarries. The database provides information regarding the registered owner/operator, location name, operation type, approval type, and maximum annual tonnage.

Government Publication Date: Up to Nov 2021

Abandoned Mine Information System:

Provincial

AMIS

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

Government Publication Date: 1800-Oct 2018

Anderson's Waste Disposal Sites:

Private

ANDR

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

Government Publication Date: 1860s-Present

Aboveground Storage Tanks:

Provincial

AST

Historical listing of aboveground storage tanks made available by the Department of Natural Resources and Forestry. Includes tanks used to hold water or petroleum. This dataset has been retired as of September 25, 2014 and will no longer be updated.

Government Publication Date: May 31, 2014

Automobile Wrecking & Supplies:

Private

AUWR

Order No: 22051000855

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

Government Publication Date: 1999-Sep 30, 2021

Borehole: Provincial BORE

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

Government Publication Date: 1875-Jul 2018

CA Provincial CA

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

Government Publication Date: 1985-Oct 30, 2011*

Dry Cleaning Facilities: Federal CDRY

List of dry cleaning facilities made available by Environment and Climate Change Canada. Environment and Climate Change Canada's Tetrachloroethylene (Use in Dry Cleaning and Reporting Requirements) Regulations (SOR/2003-79) are intended to reduce releases of tetrachloroethylene to the environment from dry cleaning facilities.

Government Publication Date: Jan 2004-Dec 2019

Commercial Fuel Oil Tanks:

Provincial CFOT

Locations of commercial underground fuel oil tanks. This is not a comprehensive or complete inventory of commercial fuel tanks in the province; this listing is a copy of records of registered commercial underground fuel oil tanks obtained under Access to Public Information.

Note that the following types of tanks do not require registration: waste oil tanks in apartments, office buildings, residences, etc.; aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2022

Chemical Manufacturers and Distributors:

Private CHEM

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

Government Publication Date: 1999-Jan 31, 2020

<u>Chemical Register:</u> Private CHM

This database includes a listing of locations of facilities within the Province or Territory that either manufacture and/or distributes chemicals.

Government Publication Date: 1999-Sep 30, 2021

Compressed Natural Gas Stations:

Private CNC

Canada has a network of public access compressed natural gas (CNG) refuelling stations. These stations dispense natural gas in compressed form at 3,000 pounds per square inch (psi), the pressure which is allowed within the current Canadian codes and standards. The majority of natural gas refuelling is located at existing retail gasoline that have a separate refuelling island for natural gas. This list of stations is made available by the Canadian Natural Gas Vehicle Alliance.

Government Publication Date: Dec 2012 -Nov 2021

Inventory of Coal Gasification Plants and Coal Tar Sites:

Provincial COAL

Order No: 22051000855

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

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions:

Provincial CONV

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

Government Publication Date: 1989-Jan 2022

Certificates of Property Use: Provincial CPU

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

Government Publication Date: 1994 - Mar 31, 2022

Drill Hole Database:

Provincial DRL

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

Government Publication Date: 1886 - Sep 2020

Delisted Fuel Tanks:

Provincial DTNK

List of fuel storage tank sites that were once found in - and have since been removed from - the list of fuel storage tanks made available by the regulatory agency under Access to Public Information.

Government Publication Date: Feb 28, 2022

Environmental Activity and Sector Registry:

Provincial EASR

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

Government Publication Date: Oct 2011- Mar 31, 2022

Environmental Registry:

Provincial EBR

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

Government Publication Date: 1994 - Mar 31, 2022

Environmental Compliance Approval:

Provincial

FCA

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

Government Publication Date: Oct 2011- Mar 31, 2022

Environmental Effects Monitoring:

Federal

EEM

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

Government Publication Date: 1992-2007*

ERIS Historical Searches: Private EHS

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

Government Publication Date: 1999-Nov 30, 2021

Environmental Issues Inventory System:

Federal

EIIS

Order No: 22051000855

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

Government Publication Date: 1992-2001*

Emergency Management Historical Event:

List of locations of historical occurrences of emergency events, including those assigned to the Ministry of Natural Resources by Order-In-Council (OIC) under the Emergency Management and Civil Protection Act, as well as events where MNR provided requested emergency response assistance. Many of these events will have involved community evacuations, significant structural loss, and/or involvement of MNR emergency response staff. These events fall into one of ten (10) type categories: Dam Failure; Drought / Low Water; Erosion; Flood; Forest Fire; Soil and Bedrock Instability; Petroleum Resource Center Event, EMO Requested Assistance, Continuity of Operations Event, Other Requested Assistance. EMHE record details are reproduced by ERIS under License with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2017.

Government Publication Date: Dec 31, 2016

Environmental Penalty Annual Report:

Provincial

Provincial

EPAR

This database contains data from Ontario's annual environmental penalty report published by the Ministry of the Environment and Climate Change. These reports provide information on environmental penalties for land or water violations issued to companies in one of the nine industrial sectors covered by the Municipal Industrial Strategy for Abatement (MISA) regulations.

Government Publication Date: Jan 1, 2011 - Dec 31, 2021

List of Expired Fuels Safety Facilities:

Provincial

EXP

List of facilities and tanks for which there was once a fuel registration. This is not a comprehensive or complete inventory of expired tanks/tank facilities in the province; this listing is a copy of previously registered tanks and facilities obtained under Access to Public Information. Includes private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc; includes tanks which have been removed from the ground.

Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2022

Federal Convictions: Federal FCON

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

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land:

Federal

203

The Federal Contaminated Sites Inventory includes information on known federal contaminated sites under the custodianship of departments, agencies and consolidated Crown corporations as well as those that are being or have been investigated to determine whether they have contamination arising from past use that could pose a risk to human health or the environment. The inventory also includes non-federal contaminated sites for which the Government of Canada has accepted some or all financial responsibility. It does not include sites where contamination has been caused by, and which are under the control of, enterprise Crown corporations, private individuals, firms or other levels of government. Includes fire training sites and sites at which Per- and Polyfluoroalkyl Substances (PFAS) are a concern.

Government Publication Date: Jun 2000-Nov 2021

Fisheries & Oceans Fuel Tanks:

Federal

FOFT

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

Government Publication Date: 1964-Sep 2019

Federal Identification Registry for Storage Tank Systems (FIRSTS):

Federal

FRST

Order No: 22051000855

A list of federally regulated Storage tanks from the Federal Identification Registry for Storage Tank Systems (FIRSTS). FIRSTS is Environment and Climate Change Canada's database of storage tank systems subject to the Storage Tank for Petroleum Products and Allied Petroleum Products Regulations. The main objective of the Regulations is to prevent soil and groundwater contamination from storage tank systems located on federal and aboriginal lands. Storage tank systems that do not have a valid identification number displayed in a readily visible location on or near the storage tank system may be refused product delivery.

Government Publication Date: May 31, 2018

For Formical FST Provincial FST

List of registered private and retail fuel storage tanks. This is not a comprehensive or complete inventory of private and retail fuel storage tanks in the province; this listing is a copy of registered private and retail fuel storage tanks, obtained under Access to Public Information.

Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are

not verified for accuracy or completeness. Government Publication Date: Feb 28, 2022

Fuel Storage Tank - Historic:

Provincial FSTH

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks. Public records of private fuel storage tanks are only available since the registration became effective in September 1989. This information is now collected by the Technical Standards and Safety Authority.

Government Publication Date: Pre-Jan 2010*

Ontario Regulation 347 Waste Generators Summary:

Provincial

GEN

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

Government Publication Date: 1986-Feb 28, 2022

Greenhouse Gas Emissions from Large Facilities:

Federal

GHG

List of greenhouse gas emissions from large facilities made available by Environment Canada. Greenhouse gas emissions in kilotonnes of carbon dioxide equivalents (kt CO2 eq).

Government Publication Date: 2013-Dec 2019

TSSA Historic Incidents:

Provincial HINC

List of historic incidences of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen recorded by the TSSA in their previous incident tracking system. The TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, the TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of historical fuel spills and leaks in the province. This listing is a copy of the data captured at one moment in time and is hence limited by the record date provided here.

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks:

Federal

IAFT

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

Government Publication Date: 1950-Aug 2003*

Fuel Oil Spills and Leaks:

Provincial

NC

Listing of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen reported to the Spills Action Centre (SAC). This is not a comprehensive or complete inventory of fuel-related leaks, spills, and incidents in the province; this listing in a copy of incidents reported to the SAC, obtained under Access to Public Information. Includes incidents from fuel-related hazards such as spills, fires, and explosions. Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2022

Landfill Inventory Management Ontario:

Provincial

LIMO

The Landfill Inventory Management Ontario (LIMO) database is updated every year, as the Ministry of the Environment, Conservation and Parks compiles new and updated information. Includes small and large landfills currently operating as well as those which are closed and historic. Operators of larger landfills provide landfill information for the previous operating year to the ministry for LIMO including: 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 include information such as site owner, site location and certificate of approval # and status.

Government Publication Date: Feb 28, 2019

Canadian Mine Locations:

Private

MINE

Order No: 22051000855

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

Government Publication Date: 1998-2009*

Mineral Occurrences:

Provincial MNR

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

Government Publication Date: 1846-Feb 2022

National Analysis of Trends in Emergencies System (NATES):

Federal

NATE

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

Government Publication Date: 1974-1994*

Non-Compliance Reports:

Provincial

NCPL

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

Government Publication Date: Dec 31, 2020

National Defense & Canadian Forces Fuel Tanks:

Federal

NDFT

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

Government Publication Date: Up to May 2001*

National Defense & Canadian Forces Spills:

Federal

NDSP

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

Government Publication Date: Mar 1999-Apr 2018

National Defence & Canadian Forces Waste Disposal Sites:

Federal

NDWD

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

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents:

Federal

NEBI

Locations of pipeline incidents from 2008 to present, made available by the Canada Energy Regulator (CER) - previously the National Energy Board (NEB). Includes incidents reported under the Onshore Pipeline Regulations and the Processing Plant Regulations related to pipelines under federal jurisdiction, does not include incident data related to pipelines under provincial or territorial jurisdiction.

Government Publication Date: 2008-Jun 30, 2021

National Energy Board Wells:

Federal

NEBP

Order No: 22051000855

The NEBW database contains information on onshore & offshore oil and gas wells that are outside provincial jurisdiction(s) and are thereby regulated by the National Energy Board. Data is provided regarding the operator, well name, well ID No./UWI, status, classification, well depth, spud and release

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES):

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

Government Publication Date: 1974-2003*

National PCB Inventory: Federal NPCB

Environment Canada's National PCB inventory includes information on in-use PCB containing equipment in Canada including federal, provincial and private facilities. Federal out-of-service PCB containing equipment and PCB waste owned by the federal government or by federally regulated industries such as airlines, railway companies, broadcasting companies, telephone and telecommunications companies, pipeline companies, etc. are also listed. Although it is not Environment Canada's mandate to collect data on non-federal PCB waste, the National PCB inventory includes some information on provincial and private PCB waste and storage sites. Some addresses provided may be Head Office addresses and are not necessarily the location of where the waste is being used or stored.

Government Publication Date: 1988-2008*

National Pollutant Release Inventory:

Federal NPRI

Federal

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

Government Publication Date: 1993-May 2017

Oil and Gas Wells: Private OGWE

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

Government Publication Date: 1988-Feb 28, 2022

Ontario Oil and Gas Wells:

Provincial OOGW

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

Government Publication Date: 1800-Jan 2021

Inventory of PCB Storage Sites:

Provincial

OPCB

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

Government Publication Date: 1987-Oct 2004; 2012-Dec 2013

Orders: Provincial ORD

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

Government Publication Date: 1994 - Feb 28, 2022

<u>Canadian Pulp and Paper:</u> Private PAP

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

Government Publication Date: 1999, 2002, 2004, 2005, 2009-2014

Parks Canada Fuel Storage Tanks:

Federal

PCFT

Order No: 22051000855

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

Government Publication Date: 1920-Jan 2005

Pesticide Register:

Provincial PES

The Ontario Ministry of the Environment and Climate Change maintains a database of licensed operators and vendors of registered pesticides.

Government Publication Date: Oct 2011- Mar 31, 2022

Provincial PINC Provincial PINC

List of pipeline incidents (strikes, leaks, spills). This is not a comprehensive or complete inventory of pipeline incidents in the province; this listing in an historical copy of records previously obtained under Access to Public Information. Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2021

Private and Retail Fuel Storage Tanks:

Provincial

PRT

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

Government Publication Date: 1989-1996*

Permit to Take Water:

Provincial PTTW

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

Government Publication Date: 1994 - Mar 31, 2022

Ontario Regulation 347 Waste Receivers Summary:

Provincial REC

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

Government Publication Date: 1986-1990, 1992-2019

Record of Site Condition:

Provincial RSC

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

RSCs filed after July 1, 2011 will also be included as part of the new (O.Reg. 511/09).

Government Publication Date: 1997-Sept 2001, Oct 2004-Mar 2022

Retail Fuel Storage Tanks:

Private RST

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

Government Publication Date: 1999-Sep 30, 2021

Scott's Manufacturing Directory:

Private

SCT

Order No: 22051000855

Scott's Directories is a data bank containing information on over 200,000 manufacturers across Canada. Even though Scott's listings are voluntary, it is the most comprehensive database of Canadian manufacturers available. Information concerning a company's address, plant size, and main products are included in this database.

Government Publication Date: 1992-Mar 2011*

Ontario Spills:

Provincial SPL

List of spills and incidents made available the Ministry of the Environment, Conservation and Parks. 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. The Ministry of the Environment, Conservation and Parks cites the coronavirus pandemic as an explanation for delays in releasing data pursuant to requests.

Government Publication Date: 1988-Sep 2020; Dec 2020-Mar 2021

Wastewater Discharger Registration Database:

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

Government Publication Date: 1990-Dec 31, 2019

Anderson's Storage Tanks:

Private TANK

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

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks:

Federal TCFT

List of fuel storage tanks currently or previously owned or operated by Transport Canada. This inventory also includes tanks on The Pickering Lands, which refers to 7,530 hectares (18,600 acres) of land in Pickering, Markham, and Uxbridge owned by the Government of Canada since 1972; properties on this land has been leased by the government since 1975, and falls under the Site Management Policy of Transport Canada, but is administered by Public Works and Government Services Canada. This inventory provides information on the site name, location, tank age, capacity and fuel type.

Government Publication Date: 1970 - Dec 2020

Variances for Abandonment of Underground Storage Tanks:

Provincial VAR

Provincial

Listing of variances granted for storage tank abandonment. This is not a comprehensive or complete inventory of tank abandonment variances in the province; this listing is a copy of tank abandonment variance records previously obtained under Access to Public Information. In Ontario, registered underground storage tanks must be removed within two years of disuse; if removal of a tank is not feasible, an application may be sought for a variance from this code requirement.

Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2022

Waste Disposal Sites - MOE CA Inventory:

Provincial WDS

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

Government Publication Date: Oct 2011- Mar 31, 2022

Waste Disposal Sites - MOE 1991 Historical Approval Inventory:

Provincial WDSH

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

Government Publication Date: Up to Oct 1990*

Water Well Information System:

Provincial

WWIS

Order No: 22051000855

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

Government Publication Date: Sep 30, 2021

Definitions

<u>Database Descriptions:</u> This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

<u>Detail Report</u>: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

<u>Distance:</u> The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

<u>Direction</u>: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

<u>Elevation:</u> The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

<u>Map Key:</u> The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

<u>Unplottables:</u> These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

Order No: 22051000855

APPENDIX 3

QUALIFICATIONS OF ASSESSORS



Mandy Witteman, B.Eng., M.A.Sc. Intermediate Environmental Engineer

Mandy joined Paterson Group in June 2018 as part of the Environmental Department. Mandy received her Bachelor of Engineering from Carleton University in 2008, specializing in Environmental Engineering. Following graduation, Mandy gained experience conducting Phase II ESAs and reporting GHG emission inventories for the private sector. In 2009, Mandy began her post-graduate degree in a Master of Applied Science, specializing in applied unsaturated soil mechanics with applications to geomechanical designs of tailings disposal facilities. Mandy has published in the Canadian Geotechnical Journal, as well as the International Conference Geo/Paste Proceedings in 2010 and 2011. Following post-graduate, Mandy joined the Tailings Group at Thurber Engineering Ltd. in Calgary, where she applied knowledge gained from her post-graduate research in designing and developing bench scale tests and pilot programs that were implemented by oil sand operators in Fort McMurray. Additionally, Mandy also worked as a QA/QC engineer on Potash sites. Her scope of work included quality assurance and quality control of hydraulic/slurry cut-off walls during construction, as well as managing and supervising daily construction activities. Since joining Paterson Group in 2018, Mandy has worked on numerous residential and commercial developments, predominantly within the National Capital Region. Her scope of work consists of managing and conducting Phase I and II ESAs, reporting and managing subsurface programs, and liaising with subcontractors, clients and consultants.

EDUCATION

Bachelor of Engineering in Environmental Engineering, 2008 Carleton University Ottawa, Ontario

Master of Applied Science in Environmental Engineering, 2013 Carleton University Ottawa, Ontario

ASSOCIATIONS/AFFILIATIONS

Ontario Professional Engineers Association

Ottawa Geotechnical Group

YEARS OF EXPERIENCE

Paterson Group: 4

Thurber Engineering: 2 Carleton University: 4

OFFICE LOCATION

154 Colonnade Road South, Nepean, Ontario, K2E 7J5

SELECT LIST OF PROJECTS

- Grey Hound Bus Terminal: 265 Catherine Street, Ottawa, ON (Phase I – II ESAs, Remediation Action Plan)
- Residential Development: 550 King Street West, Brockville, ON (Phase I ESA Enhanced Investigation Property, Phase II ESA)
- Redevelopment Project: 10 McArthur Avenue, Ottawa, ON (Phase I & II ESAs, Record of Site Condition)
- Mixed-Use Redevelopment Project:438 Albert Street, Ottawa, ON (Phase I & II ESAs, Record of Site Condition)
- Mixed-Use Redevelopment Project: 900 Albert Street, Ottawa, ON (Phase II ESA)
- Mixed-Use Redevelopment Project: 108 Nepean Street, Ottawa, ON (Phase I & II ESAs, Record of Site Condition)
- Mixed-Use Redevelopment Project: 450 Rochester Street, Ottawa, ON (Phase I & II ESAs, Record of Site Condition)
- Mixed-Use Redevelopment Project: 829 Carling Avenue, Ottawa, ON (Phase I & II ESAs)

Mark S. D'Arcy, P. Eng.

patersongroup

Geotechnical Engineering

Environmental Engineering

Hydrogeology

Geological Engineering

Materials Testing

Building Science

Archaeological Services

POSITION

Associate and Supervisor of the Environmental Division Senior Environmental/Geotechnical Engineer

EDUCATION

Queen's University, B.A.Sc.Eng, 1991 Geotechnical / Geological Engineering

MEMBERSHIPS

Ottawa Geotechnical Group Professional Engineers of Ontario

EXPERIENCE

1991 to Present

Paterson Group Inc.

Associate and Senior Environmental/Geotechnical Engineer Environmental and Geotechnical Division Supervisor of the Environmental Division

SELECT LIST OF PROJECTS

Mary River Exploration Mine Site - Northern Baffin Island

Agricultural Supply Facilities - Eastern Ontario

Laboratory Facility – Edmonton (Alberta)

Ottawa International Airport - Contaminant Migration Study - Ottawa

Richmond Road Reconstruction - Ottawa

Billings Hurdman Interconnect - Ottawa

Bank Street Reconstruction - Ottawa

Environmental Review - Various Laboratories across Canada - CFIA

Dwyer Hill Training Centre - Ottawa

Nortel Networks Environmental Monitoring - Carling Campus - Ottawa

Remediation Program - Block D Lands - Kingston

Investigation of former landfill sites - City of Ottawa

Record of Site Condition for Railway Lands - North Bay

Commercial Properties - Guelph and Brampton

Brownfields Remediation - Alcan Site - Kingston

Montreal Road Reconstruction - Ottawa

Appleford Street Residential Development - Ottawa

Remediation Program - Ottawa Train Yards

Remediation Program - Bayshore and Heron Gate

Gladstone Avenue Reconstruction – Ottawa

Somerset Avenue West Reconstruction - Ottawa