October 4, 2024
File: PE5472-LET.02R

Consulting Engineers
9 Auriga Drive
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Geotechnical Engineering
Environmental Engineering
Hydrogeology
Materials Testing
Building Science
Rural Development Design
Retaining Wall Design
Noise and Vibration Studies

patersongroup.ca

Caivan (Stittsville South) Inc.
3713 Borrisokane Road
Ottawa, Ontario
K2J 4J4

Attention: **Mr. Daniel Rokin**

Subject: **Phase I-Environmental Site Assessment Update**
5993 and 6115 Flewellyn Road, 6070 Fernbank Road and 59 Aridus Crescent
Ottawa, Ontario

Dear Sir,

Further to your request, Paterson Group (Paterson) conducted a Phase I Environmental Site Assessment (ESA) Update for the aforementioned property. This report updates three previous Phase I ESAs prepared for 5993 and 6115 Flewellyn Road and 6070 Fernbank Road prepared in 2020 and 2021. The 2020 and 2021 Phase I ESAs were prepared for the majority of the Phase I Property, however, this update was prepared to address both the original Phase I Properties and 59 Aridus Crescent. This report is intended to meet the requirements of a Phase I ESA Update, as per the MECP Standard O.Reg. 153/04, as amended, under the Environmental Protection Act. This report is to be read in conjunction with the previous reports.

Site Information

The Phase I Property is currently a vacant land, a stormwater management pond and a hydro transmission corridor are present on the central portion. The Phase I Property is located on the north side of Flewellyn Road, at the southwest corner of the Shea and Flewellyn Roads, in the City of Ottawa, Ontario. The Phase I property is an irregular lot in a RU – Rural Countryside Zone. The property is surrounded by residential and agricultural properties. The Phase I Property is situated in an area where private services (potable water wells and private septic systems) are relied upon. The configuration of the Phase I Property is shown on Drawing PE5472-3R - Site Plan, which is appended to this report.

Records Review

Phase I ESA Study Area Determination

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

First Developed Use Determination

Based on the historical review and interview with the current landowner, the Phase I Property was used for agricultural purposes. A barn was constructed on-site circa 1989, however the Phase I property has never been formally developed.

Previous Engineering Reports

- ‘’Phase I Environmental Site Assessment, 6115 Flewellyn Road” prepared by Paterson Group, dated November 6, 2020.

The 2020 Phase I ESA was conducted for the western portion of the Phase I property addressed 6115 Flewellyn Road. At the time of the original Phase I ESA, the Phase I Property was vacant. The historical search indicated that the Phase I Property was used historically for agricultural purposes. A metal barn, situated on the southern portion of the Phase I property was constructed on-site circa 1989, and otherwise remained undeveloped. The neighbouring lands were also vacant and undeveloped until the early 1990s, when residential development occurred to the north and west of the Phase I property. No off-site potentially contaminating activities (PCAs) were identified within the Phase I ESA Study Area and as such, no areas of potential environmental concern (APECs) have been identified. A site inspection was conducted to assess any existing potential areas of concern. A small metal outbuilding is situated on the southern portion of the site, which is used to store a small tractor. No potential environmental concerns were identified with the use of the Phase I property or adjacent properties. A Phase II ESA was not recommended.

- ‘’Phase I Environmental Site Assessment, Flewellyn Road, Lot 1715” prepared by Paterson Group, dated December 11, 2020.

A Phase I ESA was conducted in 2020 for the portion addressed 6070 Fernbank Road. At the time of the original Phase I ESA, the Phase I Property was vacant. The Phase I ESA indicated that the Phase I property was used for agricultural purposes with no formal development or structures occupying the Phase I property. The neighbouring lands remained undeveloped until the early 1990s, when residential development occurred to the north and west of the Phase I property. No off-site potentially contaminating activities (PCAs) were identified within the Phase I ESA Study Area and as such, no areas of

potential environmental concern (APECs) have been identified. A site inspection was conducted to assess any existing potential areas of concern. The majority of the Phase I Property was vacant treed land with a small, cleared section along the eastern property line, immediately east of a hydro transmission line. No potential environmental concerns were identified with the use of the Phase I property or adjacent properties. A Phase II ESA was not recommended.

- "'Phase I Environmental Site Assessment, 5993 Flewellyn Road" prepared by Paterson Group, dated October 4, 2021.

A Phase I ESA was conducted in 2021 for the portion addressed 5993 Flewellyn Road. At the time of the original Phase I ESA, the Phase I Property was vacant. The Phase I ESA indicated that the Phase I property was used for agricultural purposes since at least 1975. The neighbouring lands were historically consisted of agricultural or other use (vacant / treed) land, with occasional residential dwellings and farmsteads. More recently, residential dwellings have been constructed north and west of the Phase I property, as well as a stormwater management pond west of the Phase I property. A site inspection was conducted to assess any existing potential areas of concern. The site contained three (3) high voltage hydro towers as part of a hydro corridor, extending north-south through the Phase I property. The site was comprised of brush, cleared vegetation, and agricultural land, with a hydro corridor extending north-south through the Phase I property. Some development generated material (crushed stone, topsoil) was present on the western portion of the Phase I property from adjacent construction activities but was not considered to represent a potential environmental concern to the Phase I property. No potential environmental concerns were identified with the use of the Phase I property or adjacent properties. A Phase II ESA was not recommended.

Environment Canada

A search of the National Pollutant Release Inventory (NPRI) was conducted electronically on May 10, 2024. The Phase I property and adjacent properties were not listed in the NPRI database. No records of pollutant release were listed in the database for properties located 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 indicated that multiple Environmental compliance approvals, Municipal and Private Sewage Works and approval to take water records were found for the Phase I property. Due to the nature of these records, they are not considered to pose a potential environmental concern to the Phase I Property.

MECP Submissions

A request was submitted to the MECP FOI office for information with respect to reports related to environmental conditions for the property. A response from the MECP indicated that no records were found for the Phase I property.

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 indicated that no records were found for the Phase I property.

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 indicated that no records were found for the Phase I property.

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

A search of the MECP Brownfields Environmental Site Registry 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 the Phase I property or adjacent properties.

Areas of Natural Significance

A search for areas of natural and scientific interest situated within the Phase I study area was conducted electronically vis the Ontario Ministry of Natural Resources and Forestry (OMNRF) website. The search did not identify any natural features of areas of natural significance within the Phase I study area.

Technical Standards and Safety Authority (TSSA)

The TSSA, Fuels Safety Branch in Toronto, was contacted electronically on July 5, 2024, to inquire about current and former underground storage tanks, spills and incidents for the site and neighbouring properties. No records are listed in the TSSA registry for the Phase I property or neighbouring properties. The response from the TSSA is appended to this report.

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 the Phase I study area.

City of Ottawa Historical Land Use Inventory (HLUI)

A requisition was sent to the City of Ottawa to request information from the City’s Historical Land Use Inventory database for the Phase I property. A response had not been received at the time of issuing this report. A copy of the HLUI search results will be forwarded to the client. A copy of the response has been included in the Appendix.

The HLUI Responses from the 2020 and 2021 were obtained and reviewed as part of the Phase I ESA. The HLUI response letters indicated that no activities were associated with the subject and surrounding properties within 250m.

ERIS Database Report

A database report, prepared by ERIS (Environmental Risk Information Services) Ltd., dated July 4, 2024, was acquired and reviewed as part of this assessment. The complete ERIS reports have been included in the attachments.

❒ *On-Site Records:*

The ERIS report identified thirteen (13) records pertaining to the Phase I Property, four Eris Historical Search, one Permit to Take Water and eight Environmental Compliance Approvals (ECAs) associated with a Municipal and Private Sewer Works for the Phase I Property. Due to the nature of these records, they are not considered to pose a potential environmental concern to the Phase I Property.

❒ *Off-Site Records:*

Forty-three (43) records were identified within the Phase I study area, including borehole records, environmental compliance approvals, ERIS historical searches, and water well records. Environmental compliance approvals were limited to municipal and private sewage works. Well records included domestic water wells and livestock wells associated with nearby residential dwellings and farmsteads from 1959 to 2002, as well as geological / geotechnical monitoring well records from 2012 to 2018 associated with nearby residential development. One spill and pipeline incident were identified at 884 Stallion Crescent, approximately 130m north of the Phase I Property. No potentially contaminating activities were identified in the ERIS reports.

Aerial Photographs

The latest aerial images in the 2020 & 2021 Phase I ESAs report were from 2017 and 2019. No significant changes were identified with respect to the Phase I or neighbouring properties since the time of the 2017 and 2019 aerial photographs. No other significant changes were noted on the Phase I or surrounding properties.

Topographic Maps

Topographic maps were obtained from Natural Resources Canada – The Atlas of Canada website and from the City of Ottawa website. 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 site is relatively flat and sloping gently downward towards the east. An illustration of the referenced topographic map is presented on Figure 2 – Topographic Map, appended to this report.

Physiographic Maps

A Physiographic Map was reviewed from the Natural Resources Canada - The Atlas of Canada website. According to this physiographic map, the site is located in the St. Lawrence Lowlands. According to the mapping description provided: “The lowlands are plain-like areas that were all affected by the Pleistocene glaciations and are therefore covered by surficial deposits and other features associated with the ice sheets.” The Phase I property is located in the Central St. Lawrence Lowland, “where the land is rarely more than 150 m above sea level, except for the Monteregian Hills, which consist of intrusive igneous rocks”.

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 this information, bedrock in the area of the site consists of interbedded limestone and dolomite of the Gull River Formation and limestone of the Bobcaygeon Formation. Overburden soils are reported as plain till with drift thickness on the order of 0 to 5m over the majority of the Phase I Property. Drift thicknesses up to 10m are reported along the southern portion of the property.

Water Well Records

A search of the MECP website returned 32 well records identified in the Phase I study area, including domestic drinking wells, abandonment records and geotechnical test holes. The majority of the records (30) pertain to domestic drinking wells and livestock wells drilled between 1959 and 2002 for nearby residential dwellings / farmsteads, with

some associated abandonment records, as well as two (2) test holes (observation monitoring wells) for geologic assessment purposes.

According to the well records, the stratigraphy in the Phase I study area generally consisted of a shallow sandy till material overlaying grey limestone and shale bedrock. No concerns were identified during the well record review.

Property Owner Representative Interview

Mr. Daniel Rokin, of Caivan Communities, was interviewed as part of this update. Mr. Rokin was unaware of any potential environmental concerns on the subject and neighbouring properties.

Site Reconnaissance

Our site reconnaissance visit was conducted on July 4, 2024. Weather conditions were overcast, with a temperature of approximately 30°C. Mr. Mohammed Ramadan from the Environmental Department of Paterson Group conducted the site inspection. 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.

Exterior Assessment

The Phase I property is currently vacant undeveloped land with trees and light vegetation covering the site surface. A stormwater management pond is present on the central portion of the Phase I Property addressed as 59 Aridus Crescent. The Phase I property is transected by a hydro corridor, with three (3) high voltage hydro towers present on the Phase I property. A small, abandoned metal outbuilding is situated on the southwestern portion of the site. The outbuilding was constructed in 1989.

Site topography is relatively flat with the southern portion of the Phase I Property slightly sloping down to the south. Site drainage consists of surficial infiltration and sheet flow to onsite drainage ditches and storm management pond.

No evidence of spills or staining was observed during the site visit. No ASTs or evidence of USTs was observed on the Phase I property.

No evidence of railway lines was noted on the Phase I property. No concerns with respect to chemical storage or waste disposal were observed on the Phase I property. There were no unidentified substances observed on the exterior of the Phase I property.

A depiction of the Phase I property is illustrated on Drawing number PE5472-3R – Site Plan, appended to this report.

Neighbouring Land Use

Neighbouring land use in the Phase I Study Area is primarily residential. No PCAs were identified within the Phase I Study Area. Current land use within the Phase I Study Area is illustrated on Drawing: PE5472-2R – Surrounding Land Use Plan in the Figures section of this report, following the text

Review and Evaluation of Information

Land Use History

Based on the available historical records, the Phase I Property has never been formally developed. A small metal outbuilding occupies the southwestern portion of the site, which was constructed in 1989 and used for storing furniture items as well as a small tractor. There are no potential environmental concerns associated with the historical and current use of the Phase I Property.

Potentially Contaminating Activities and Areas of Potential Environmental Concern

No potentially contaminating activities (PCAs) were identified on the Phase I Property or in the Phase I ESA Study Area and as such, there are no areas of potential environmental concern (APECs).

Contaminants of Potential Concern

No Contaminants of Potential Concern (CPCs) were identified on the Phase I Property.

Conceptual Site Model

Geological and Hydrogeological Setting

The Geological Survey of Canada website on the Urban Geology of the National Capital Area was consulted as part of this assessment. Based on this information, bedrock in the area of the site consists of interbedded limestone and dolomite of the Gull River Formation and limestone of the Bobcaygeon Formation. Overburden soils are reported as plain till with drift thickness on the order of 0 to 5m over the majority of the Phase I Property. Drift thicknesses up to 10m are reported along the southern portion of the property.

Existing Buildings and Structures

The Phase I property contains six (6) high voltage hydro towers (part of a hydro corridor). A small, abandoned metal barn is situated on the southwestern portion of the site.

Water Bodies

The nearest named body of water is Mahoney Creek, located approximately 3.5 km east of the Phase I property. The site is also situated adjacent to a stormwater management pond (west) as part of nearby residential development.

Areas of Natural Significance

No areas of natural significance were identified on the Phase I Property or within the Phase I Study Area.

Drinking Water Wells

No domestic potable wells were observed on the Phase I Property nor are there expected to be any present on-site as the Phase I property has never been formally developed.

Neighbouring Land Use

Neighbouring land use in the Phase I study area consists of residential properties. Land use is shown on Drawing number PE5472-4R- Surrounding Land Use Plan

Potentially Contaminating Activities and Areas of Potential Environmental Concern

As per Section 7.1 of this report, no PCAs were identified on the Phase I property or in the Phase I study area.

No Areas of Potential Environmental Concern were identified on the Phase I property.

Assessment of Uncertainty and/or Absence of Information

The absence of PCAs within the Phase I study area was confirmed by a variety of independent sources. As such, the conclusions of this report are not affected by uncertainty which may be present with respect to the individual sources.

Conclusions

Based on the results of this Phase I ESA Update, **it is our opinion, that a Phase II Environmental Site Assessment is not required for the property.**

Statement of Limitations

This Phase I - Environmental Site Assessment Update report has been prepared under the supervision of a Qualified Person in general accordance with the agreed scope-of-work and O.Reg. 153/04. The conclusions presented herein are based on information gathered from a historical review and field inspection program.

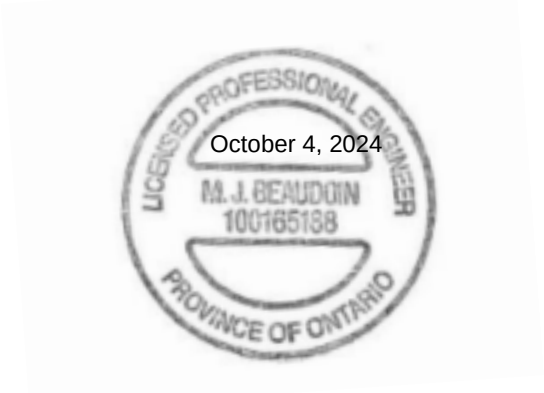
The findings of the Phase I ESA Update are based on a review of readily available geological, historical and regulatory information and a cursory review made at the time of the field assessment. The historical research relies on information supplied by others, such as local, provincial, and federal agencies 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 129 Main Street Properties Inc**.** Permission and notification from 129 Main Street Properties Inc. and this firm will be required to release this report to any other party.

We trust that this submission satisfies your current requirements. Should you have any questions please contact the undersigned.

Paterson Group Inc.



October 4, 2024

Mohammed Ramadan, B.Sc.

Michael Beaudoin, P.Eng., QP_{ESA}

Report Distribution:

- ❑ Caivan (Stittsville South) Inc. (1 copy)
- ❑ Paterson Group (1 copy)

Attachments:

- ❑ Figure 1 - Key Plan
- ❑ Figure 2 - Topographic Map
- ❑ Drawing PE5472-3R - Site Plan
- ❑ Drawing PE5472-4R - Surrounding Land Use Plan
- ❑ MECP FOI Response
- ❑ TSSA Correspondence
- ❑ HLUI Request Letter
- ❑ ERIS Report

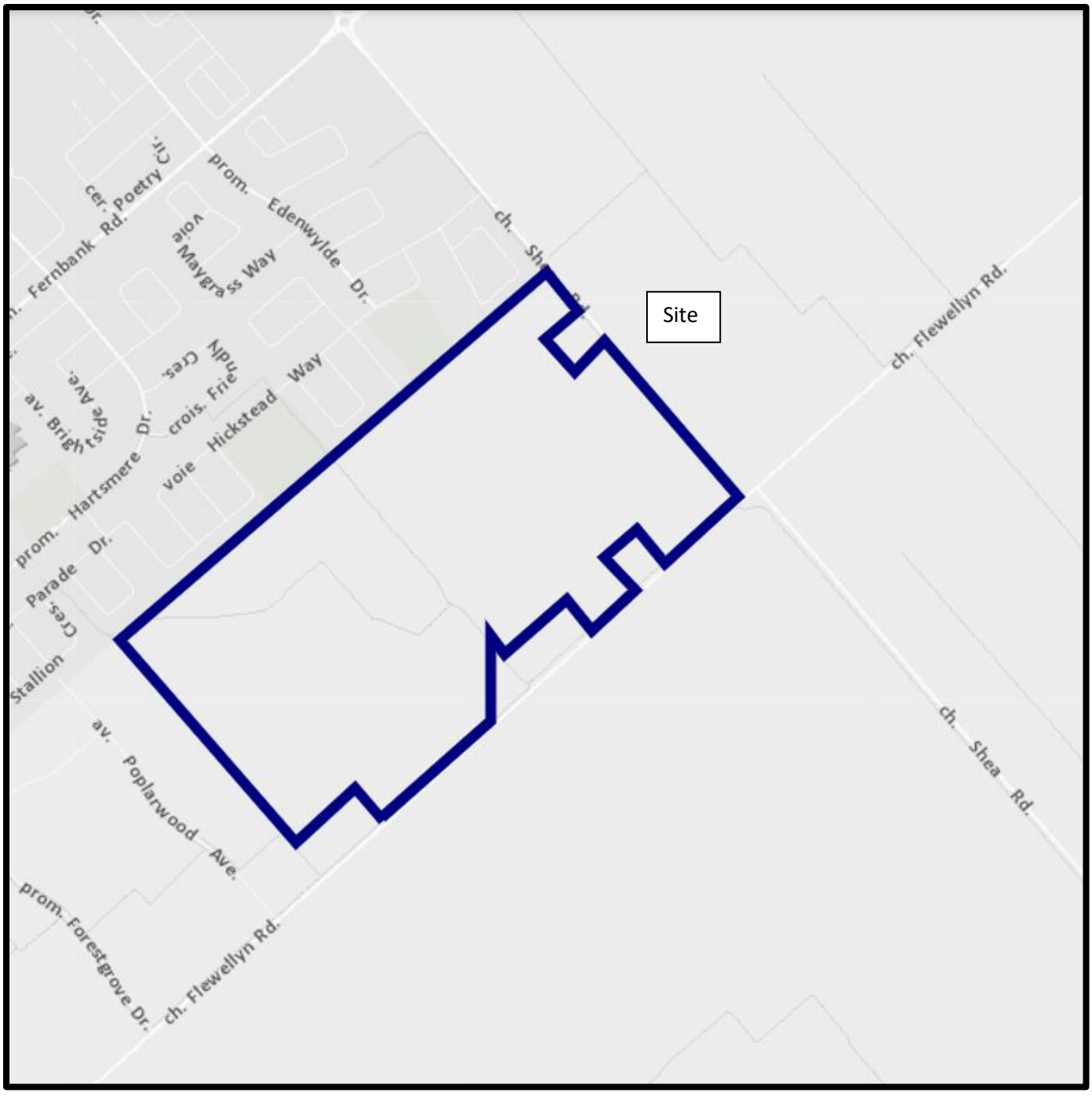


FIGURE 1

KEY PLAN

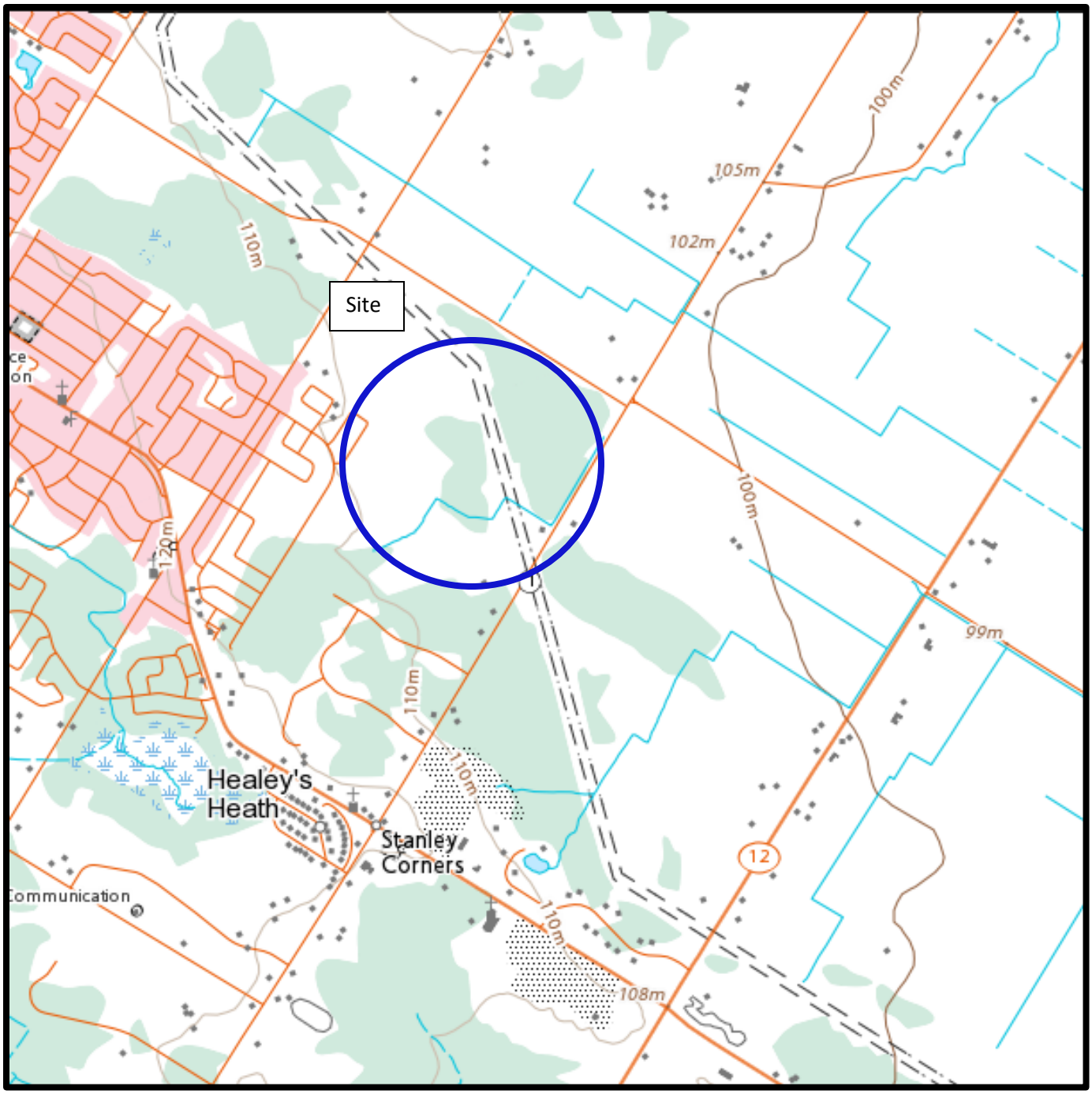
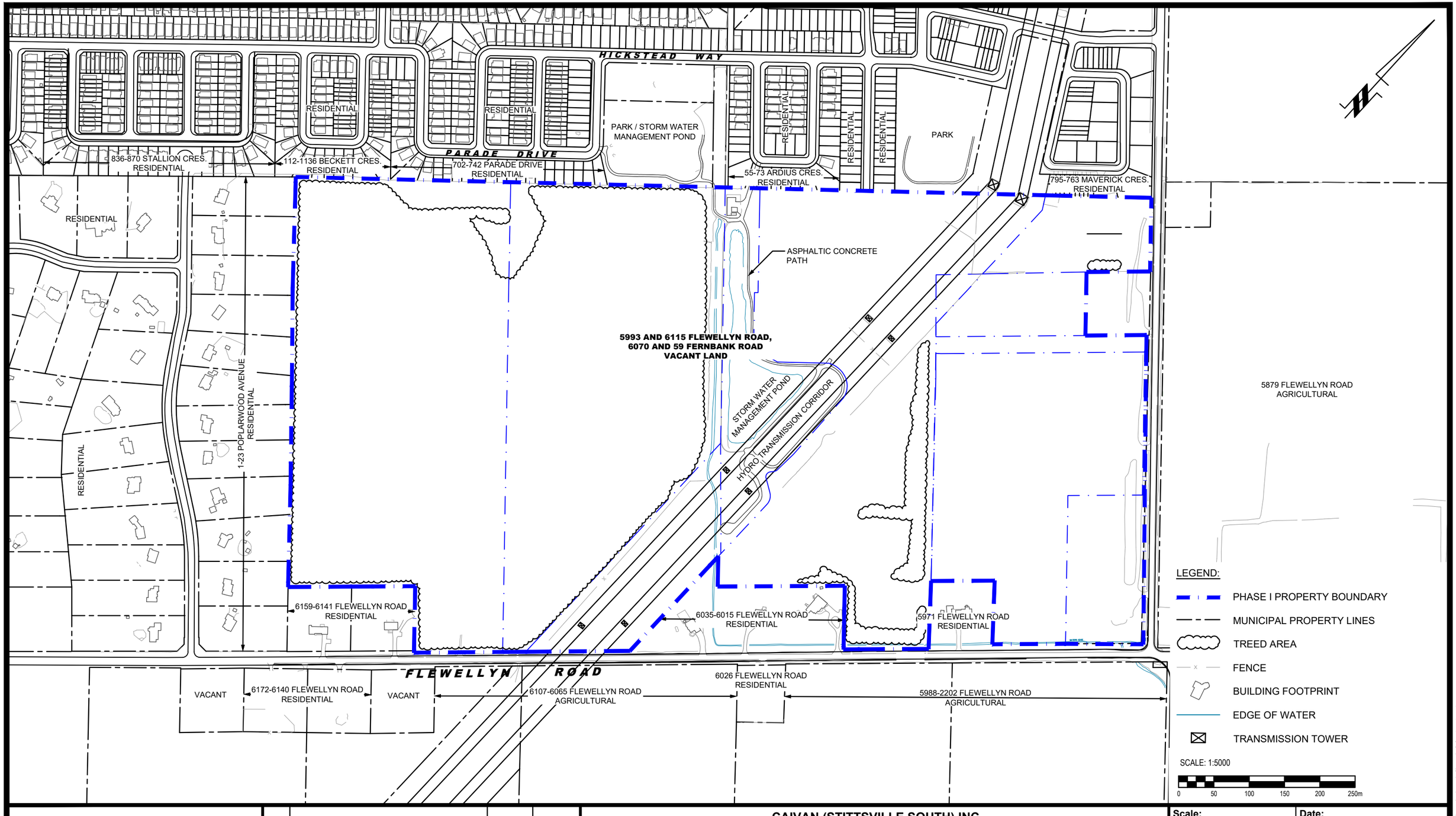


FIGURE 2

TOPOGRAPHIC MAP



PATERSON GROUP
9 AURIGA DRIVE
OTTAWA, ON
K2E 7T9
TEL: (613) 226-7381

NO.	REVISIONS	DATE	INITIAL

CAIVAN (STITTSVILLE SOUTH) INC.

PHASE I - ENVIRONMENTAL SITE ASSESSMENT UPDATE
5993 AND 6115 FLEWELLYN ROAD, 6070 AND 59 FERNBANK ROAD
OTTAWA, ONTARIO

Title:

SITE PLAN

Scale: 1:5000	Date: 07/2024
Drawn by: ZS	Report No.: PE5472-1
Checked by: MR	Dwg. No.: PE5472-3R
Approved by: MB	Revision No.:

11x17

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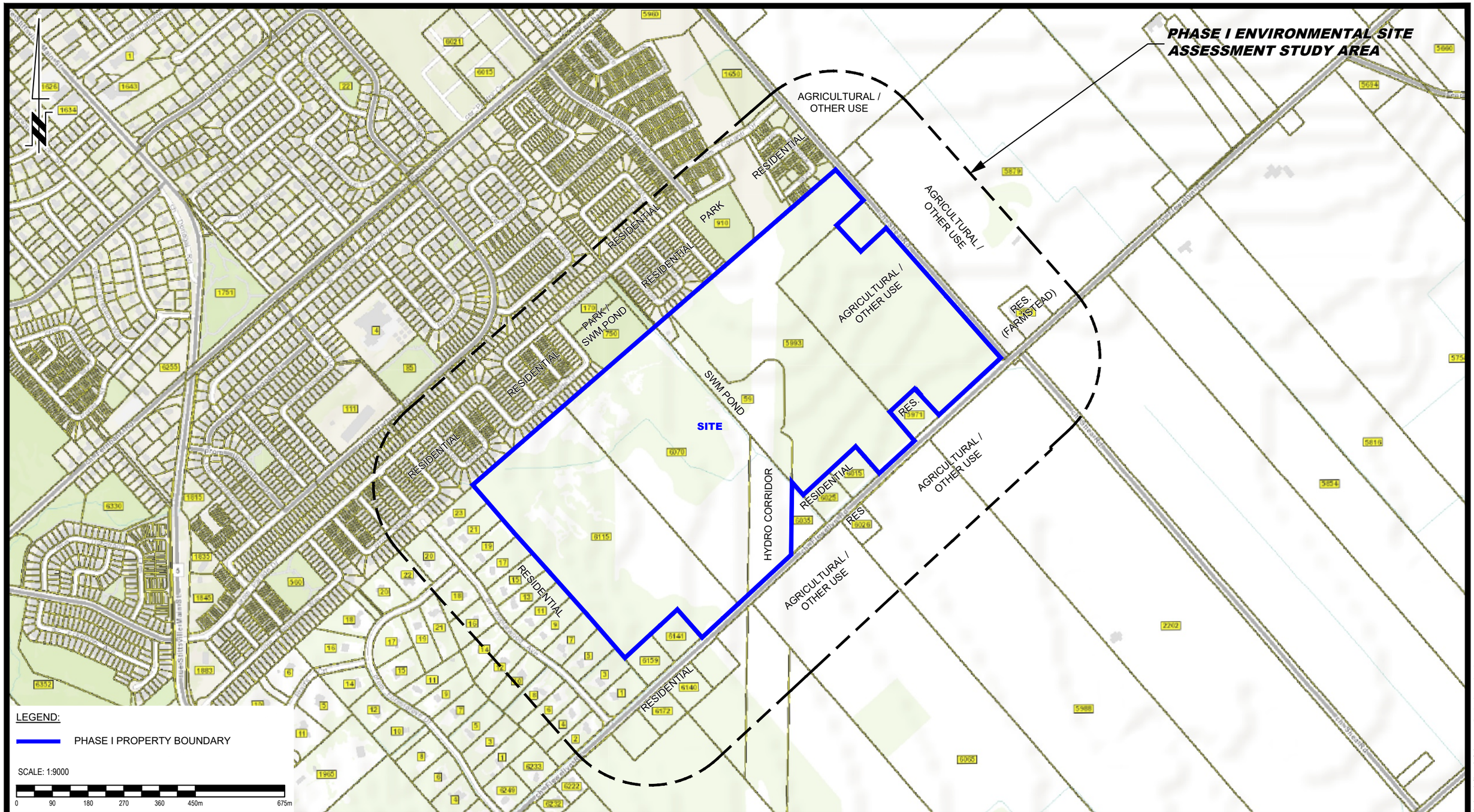

PATERSON GROUP
9 AURIGA DRIVE
OTTAWA, ON
K2E 7T9
TEL: (613) 226-7381

NO.	REVISIONS	DATE	INITIAL

CAIVAN (STITTSVILLE SOUTH) INC. & CAIVAN (STITTSVILLE WEST) LTD.

PHASE I - ENVIRONMENTAL SITE ASSESSMENT UPDATE

5993 AND 6115 FLEWELLYN ROAD, 6070 FERNBANK ROAD AND 59 ARIDUS CRESCENT

OTTAWA, ONTARIO

Title:

SURROUNDING LAND USE PLAN

Scale: 1:9000	Date: 07/2024
Drawn by: ZS	Report No.: PE5472-1
Checked by: MR	Dwg. No.: PE5472-4R
Approved by: MB	Revision No.:

11x17

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Ministry of the Environment, Conservation and Parks

Corporate Services Branch
40 St. Clair Avenue West
Toronto ON M4V 1M2

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

Direction des services ministériels
40, avenue St. Clair Ouest
Toronto ON M4V 1M2

Ontario

October 2, 2024

Mr. Mohammed Ramadan
Paterson Group Inc
9 Auriga Drive
Ottawa, Ontario K2E 7T9
mramadan@patersongroup.ca

Dear Mohammed Ramadan:

RE: MECP FOI A-2024-05853, Your Reference #: PE5472 – Record Release Letter

This letter is further to your request made pursuant to the Freedom of Information and Protection of Privacy Act (the Act) relating to:

> 5993 and 6115 Flewellyn Road, 6070 Fernbank Road and 59 Aridus Crescent, Ottawa
> Timeframe: January 1,1986 to September 5, 2024

Your final fee payment was received by this office. If payment was not in Canadian dollars, please contact our office immediately.

Attached is a copy of the records.

You may request a review of my decision within 30 days from the date of this letter by contacting the Information and Privacy Commissioner/Ontario at http://www.ipc.on.ca. Please note there may be a fee associated with submitting the appeal.

If you have any questions, please contact Stephanie Rampino at 437-995-3228 or stephanie.rampino@ontario.ca.

Yours truly,

RampinoS

for
Josephine DeSouza
Manager, Access and Privacy Office

Attachment

Ontario

Ministry of the Environment and Climate Change
Ministère de l'Environnement et de l'Action en matière de changement climatique

ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 1816-AEFRJ9
Issue Date: October 13, 2016

Stittsville South Inc. and 1384341 Ontario Ltd.
1737 Woodward Drive, 2nd Floor
Ottawa, Ontario
K2C 0P9

Site Location: Stittsville South Subdivision
1921 Stittsville Main Street, 70 Hartsmere Drive, 74 Friendly, Crescent and Part of 5970 Fernbank Road
City of Ottawa

You have applied under section 20.2 of Part II.1 of the Environmental Protection Act, R.S.O. 1990, c. E. 19 (Environmental Protection Act) for approval of:

storm and sanitary sewers to be constructed in the City of Ottawa as follows;

- sanitary sewers on Parade Drive (from Station 10+080 to Station 11+527), Campolina Way (from Station 50+014 to Station 50+625), Falabella Street (from Station 20+059 to Station 20+137), Quarterhorse Street (from Station 30+012 to Station 30+131), Hartsmere Drive (from Station 120+043 to Station 120+150), Lipizzaner Street (from Station 40+022 to Station 40+140), Stallion Crescent (from Station 60+010 to Station 60+511), Pedigree Street (from Station 70+010 to Station 70+129), Manege Street (from Station 80+010 to Station 80+128), Beckett Crescent (from Station 90+010 to Station 90+346), Hickstead Drive (from Station 100+042 to Station 100+570), Cavallo Street (from Station 130+009 to Station 130 +151), Davidson Street 11 (from Station 113+906 to Station 114+144); and

- storm sewers on Parade Drive (from Station 10+068 to Station 11+528), Campolina Way (from Station 50+015 to Station 50+624), Falabella Street (from Station 20+060 to Station 20+138), Quarterhorse Street (from Station 30+014 to Station 30+132), Hartsmere Drive (from Station 120+045 to Station 120+152), Lipizzaner Street (from Station 40+021 to Station 40+142), Stallion Crescent (from Station 60+012 to Station 60+509), Pedigree Street (from Station 70+012 to Station 70+130), Manege Street (from Station 80+011 to Station 80+130), Beckett Crescent (from Station 90+012 to Station 90+344), Hickstead Drive (from Station 100+040 to Station 100+513), Cavallo Street (from Station 130+011 to Station 130+153), Block 362 (across Hickstead Drive), and Block 363 (from Station 115+210 to Station 115+258), Block 364 (along southern property line west of Lot 266);

all in accordance with the application from Stittsville South Inc.and 1384341 Ontario Ltd., dated March 3, 2016,

including final plans and specifications prepared by Novatech Engineering Consultants Ltd.

In accordance with Section 139 of the Environmental Protection Act, you may by written Notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. Section 142 of the Environmental Protection Act provides that the Notice requiring the hearing shall state:

1. The portions of the environmental compliance approval or each term or condition in the environmental compliance approval in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

The Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The environmental compliance approval number;
6. The date of the environmental compliance approval;
7. The name of the Director, and;
8. The municipality or municipalities within which the project is to be engaged in.

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
655 Bay Street, Suite 1500
Toronto, Ontario
M5G 1E5

AND

The Director appointed for the purposes of
Part II.1 of the Environmental Protection Act
Ministry of the Environment and
Climate Change
135 St. Clair Avenue West, 1st Floor
Toronto, Ontario
M4V 1P5

*** Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 212-6349, Fax: (416) 326-5370 or www.ert.gov.on.ca**

The above noted activity is approved under s.20.3 of Part II.1 of the Environmental Protection Act.

DATED AT TORONTO this 13th day of October, 2016

Gregory Zimmer, P.Eng.
Director
appointed for the purposes of Part II.1 of the
Environmental Protection Act

AF/

c: District Manager, MOECC Ottawa
M. Rick O'Connor, City Clerk, City of Ottawa
Charles Warnock, P. Eng., City of Ottawa (File No. D07-16-13-0033)
Linda Carkner, Program Manager, City of Ottawa
Bassam Bahia, P. Eng., Novatech Engineering Consultants Ltd.

Ontario

Ministry of the Environment and Climate Change
Ministère de l'Environnement et de l'Action en matière de changement climatique

ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 3415-ADQLJG
Issue Date: September 21, 2016

Stittsville South Inc. and 1384341 Ontario Ltd.
1737 Woodward Drive, 2nd Floor
Ottawa, Ontario
K2C 0P9

Site Location: Stittsville South Area 6 Sanitary Pumping Station
5970 Fernbank Road and part of 5993 Flewellyn Road
City of Ottawa, Ontario

You have applied under section 20.2 of Part II.1 of the Environmental Protection Act, R.S.O. 1990, c. E. 19 (Environmental Protection Act) for approval of:

Sanitary Pump Station and Forcemain

- one (1) 3000 mm diameter and 8.65 metre deep wet well with provision for three (3) submersible non-clog wastewater pumps, each pump designed for 42 litres/second at a Total Dynamic Head (TDH) of 29 metres, complete with trash basket, pipe rails, level regulation, force air blower unit and appurtenances;

- two (2) pumps will be initially installed with each pump capable of delivering 42 litres/second at a TDH of 29 metres for an initial firm capacity of 42 litres/second;

- the third pump will be added through an amendment to the ECA once development flows approach 42 litres/second to bring the pump station to its ultimate firm capacity of 84 litres/second;

- approximately 870 metres of dual 200 mm diameter HDPE DR13.5 sanitary forcemains originating at the pump station control building and terminating at the existing sanitary sewer on Fernbank Road;

- one (1) 2400 mm x 1800 mm concrete discharge manhole, complete with Swab Catcher, replacing the existing sanitary MH 401 on Fernbank Road. Dual forcemains will discharge to this new manhole;

- pump station control building complete with mechanical and electrical systems, process piping, valves, control panels, SCADA system, odour control system, swab launchers and appurtenances;

- one (1) 170 KW self-enclosed diesel generator (to be registered under Environmental Activity and Sector Registry (EASR)) on a reinforced concrete pad adjustment to the pump station control building complete with diesel fuel tank, valves and controls;

- one (1) 2400 mm x 1800 mm concrete by-pass chamber complete with valves, couplings and appurtenances;

Sanitary Sewers Pump Station

- approximately 4.8 metres of 450 mm diameter sanitary sewer @ 2.55% from Sanitary MH 99 to wet well;

- approximately 18 metres of 200 mm diameter sanitary forcemain HDPE 13.5 from SAN MH 99 to By-pass Chamber;

- approximately 18.7 metres of 600 mm diameter sanitary sewer from SAN MH 99 to SAN MH 97;

Interim Emergency Sanitary Sewer Overflow

approximately 26.6 metres of 250 mm diameter sanitary sewer from sanitary MH 97 to the existing Faulkner Ditch. Elevation of emergency overflow in sanitary MH 97 is 104.27m;

Permanent Emergency Sanitary Sewer Overflow

the permanent Emergency Sanitary Sewer Overflow will discharge to the future Davidson Stormwater Management Facility which is anticipated to be constructed within the next 2-4 years;

- the permanent emergency sanitary sewer overflow will consist of 3 metres of 600 mm diameter sewer from sanitary MH 97 to the future stormwater management facility. The elevation of the emergency overflow in MH 97 is 103.40m;

- provision to adjust the elevation of the permanent emergency sanitary overflow in MH 97 within a range of 102.80m to 103.70m based on the final 100-year water level in the future Davidson Stormwater Management Facility;

- one (1) primary measuring device in MH 97 consisting of a broad crest weir complete with ultrasonic level recorder;

- once permanent emergency sanitary sewer overflow is established, the interim overflow will be abandoned;

including erosion/sedimentation control measures during construction and all other controls and appurtenances essential for the proper operation of the aforementioned Works;

all in accordance with the application from the Stittsville South Inc. and 1384341 Ontario Ltd., dated March 03, 2016, and all other supporting documents, final plans and specifications prepared by Novatech.

For the purpose of this environmental compliance approval, the following definitions apply:

"Approval" means this entire document including the application and any supporting documents listed in any schedules in this Approval;

"BOD5" (also known as TBOD5) means five day biochemical oxygen demand measured in an unfiltered sample and includes carbonaceous and nitrogenous oxygen demand;

"Director" means a person appointed by the Minister pursuant to section 5 of the Environmental Protection Act for the purposes of Part II.1 of the Environmental Protection Act;

"E. Coli" refers to the thermally tolerant forms of Escherichia that can survive at 44.5 degrees Celsius;

"Emergency Situation" means a structural, mechanical or electrical failure that causes a temporary reduction in the capacity of the sanitary sewage pumping station or an unforeseen flow condition that may result in:

a) danger to the health or safety of any person; or
b) injury or damage to any property, or serious risk of injury or damage to any property.

"EPA" means the Environmental Protection Act, R.S.O. 1990, c.E.19, as amended;

"Event" in the context the sanitary sewage pumping station located outside a Sewage Treatment Plant, means an action or occurrence, at the sanitary sewage pumping station that causes a Sewage Pumping Station Overflow. An Event ends when there is no recurrence of a Sewage Pumping Station Overflow in the 12-hour period following the last Sewage Pumping Station Overflow. Two Events are separated by at least 12 hours during which there has been no recurrence of a Sewage Pumping Station Overflow;

"Limited Operational Flexibility" (LOF) means the modifications that the Owner is permitted to make to the Works under this Approval;

"Ministry" means the ministry of the government of Ontario responsible for the Environmental Protection Act and the Ontario Water Resources Act and includes all officials, employees or other persons acting on its behalf;

"Notice of Modifications" means the form entitled "Notice of Modifications to Sewage Works" included in Schedule "A";

"Owner" means the Stittsville South Inc. and 1384341 Ontario Ltd., and includes their successors and assignees;

"Professional Engineer" means a person entitled to practise as a Professional Engineer in the Province of Ontario under a licence issued under the Professional Engineers Act;

"Sewage Pumping Station Overflow" means any discharge from a sanitary sewage pumping station located outside a Sewage Treatment Plant that does not undergo any treatment or only receives partial treatment before it is discharged to the environment;

"Substantial Completion" has the same meaning as "substantial performance" in the Construction Lien Act;

"Water Supervisor" means the person appointed as Water Supervisor of the Ottawa office of the Ministry;

"Works" means the sewage works described in the Owner's application(s) and this Approval.

You are hereby notified that this environmental compliance approval is issued to you subject to the terms and conditions outlined below:

TERMS AND CONDITIONS

1. GENERAL PROVISIONS

(1) The Owner shall ensure that any person authorized to carry out work on or operate any aspect of the Works is notified of this Approval and the Conditions herein and shall take all reasonable measures to ensure any such person complies with the same.

(2) The designation of the The City of Ottawa as the operating authority of the site on the application for approval of the Works does not relieve the Owner from the responsibility of complying with any and all of the Conditions of this Approval.

(3) Except as otherwise provided by these Conditions, the Owner shall design, build, install, operate and maintain the Works in accordance with the description given in this Approval, and the application for approval of the Works.

(4) Where there is a conflict between a provision of any submitted document referred to in this Approval and the Conditions of this Approval, the Conditions in this Approval shall take precedence, and where there is a conflict between the listed submitted documents, the document bearing the most recent date shall prevail.

(5) Where there is a conflict between the listed submitted documents, and the application, the application shall take precedence unless it is clear that the purpose of the document was to amend the application.

(6) The Conditions of this Approval are severable. If any Condition of this Approval, or the application of any requirement of this Approval to any circumstance, is held invalid or unenforceable, the application of such Condition to other circumstances and the remainder of this Approval shall not be affected thereby.

(7) The issuance of, and compliance with the Conditions of this Approval does not:

(a) relieve any person of any obligation to comply with any provision of any applicable statute, regulation or other legal requirement, including, but not limited to, the obligation to obtain approval from the local conservation authority necessary to construct or operate the sewage Works; or

(b) limit in any way the authority of the Ministry to require certain steps be taken to require the Owner to furnish any further information related to compliance with this Approval.

2. EXPIRY OF APPROVAL

(1) This Approval will cease to apply to those parts of the new Works which have not been constructed within **five (5) years** of the date of this Approval.

3. CHANGE OF OWNER

(1) The Owner shall notify the Director, in writing, of any of the following changes within **thirty (30) days** of the change occurring:

(a) change of Owner;

(b) change of address of the Owner;

(c) change of partners where the Owner is or at any time becomes a partnership, and a copy of the most recent declaration filed under the Business Names Act, R.S.O. 1990, c. B17 shall be included in the notification to the Director;

(d) change of name of the corporation where the Owner is or at any time becomes a corporation, and a copy of the most current information filed under the Corporations Information Act, R.S.O. 1990, c. C39 shall be included in the notification to the Director.

4. UPON SUBSTANTIAL COMPLETION OF THE SEWAGE PUMPING STATION

(1) Upon Substantial Completion of the sewage pumping station, the Owner shall prepare a statement, certified by a Professional Engineer, that the sewage pumping station was constructed in accordance with this Approval, and shall make the written statement available to the Ministry, upon request.

(2) Within **one (1) year** of Substantial Completion of the sewage pumping station, a set of as-built drawings showing the sewage pumping station "as constructed" shall be prepared. These drawings shall be kept up to date through revisions undertaken from time to time and a copy shall be retained at the sewage pumping station for the operational life of the sewage pumping station.

5. SEWAGE PUMPING STATION OVERFLOW

(1) Any Sewage Pumping Station Overflow is prohibited, except:

(a) in an Emergency Situation;

(b) where the Sewage Pumping Station Overflow is a direct and unavoidable result of a planned maintenance procedure, the Owner notified the Water Supervisor **fifteen (15) days** prior to the Sewage Pumping Station Overflow and the Water Supervisor has given written consent of the

Sewage Pumping Station Overflow; or,

(c) where the Sewage Pumping Station Overflow is planned for research or training purposes, the discharger notified the Water Supervisor **fifteen (15) days** prior to the Sewage Pumping Station Overflow and the Water Supervisor has given written consent of the Sewage Pumping Station Overflow.

(2) The Owner shall forthwith notify the Spills Action Centre (SAC) at 1-800-268-6060 or e-mail at moe.sac.moe@ontario.ca and the Medical Officer of Health of every Sewage Pumping Station Overflow Event. This notice shall include, at a minimum, the following information:

(a) the date and time at which the Event(s) started,

(b) duration of the Event(s);

(c) the location of the Event(s);

(d) the measured or estimated volume of the Event(s) (unless the Event(s) is/are ongoing); and

(e) the reason for the Event (s).

(3) The Owner shall submit Sewage Pumping Station Overflow Event Reports to the Ministry's local office on an Annual basis, no later than forty-five (45) days following the end of the calendar year. Event Reports shall be in an electronic format specified by the Ministry. In each Event Report the Owner shall include, at a minimum, the following information on any Event(s) that occurred during the preceding year:

(a) the date and time at which the Event(s) started,

(b) duration of the Event(s);

(c) the location of the Event**(s)**;

(d) the measured or estimated volume of the Event(s) (unless the Event(s) is/are ongoing); and

(e) the reason for the Event(s).

(4) The Owner shall use best efforts to collect a representative sample consisting of a minimum of two (2) grab samples of the Sewage Pumping Station Overflow and have it analysed for parameters outlined in Table 1 of Condition 7 (2) using the protocols specified in Condition 7 (3), one at the beginning of the Event and the second approximately near the end of the Event, to best reflect the effluent quality of such Sewage Pumping Station Overflow.

(5) The Owner shall maintain a record of all Sewage Pumping Station Overflow(s), which shall contain, at a minimum, the types of information set out in Condition 5 (2 (a)) to 5 (2 (e)) in respect of each

Sewage Pumping Station Overflow.

6. OPERATION AND MAINTENANCE

(1) The Owner shall exercise due diligence in ensuring that, at all times, the Works and the related equipment and appurtenances used to achieve compliance with this Approval are properly operated and maintained. Proper operation and maintenance shall include effective performance, adequate funding, adequate operator staffing and training, including training in all procedures and other requirements of this Approval and the Act and regulations, adequate laboratory facilities, process controls and alarms and the use of process chemicals and other substances used in the Works.

(2) The Owner shall prepare an operations manual within **six (6) months** of Substantial Completion of the sewage pumping station, that includes, but not necessarily limited to, the following information:

(a) operating procedures for routine operation of the sewage pumping station;

(b) inspection programs, including frequency of inspection, for the sewage pumping station and the methods or tests employed to detect when maintenance is necessary;

(c) repair and maintenance programs, including the frequency of repair and maintenance for the sewage pumping station;

(d) procedures for the inspection and calibration of monitoring equipment;

(e) a spill prevention control and countermeasures plan, consisting of contingency plans and procedures for dealing with equipment breakdowns, potential spills and any other abnormal situations, including notification of the Water Supervisor; and

(f) procedures for receiving, responding and recording public complaints, including recording any follow-up actions taken.

(3) The Owner shall maintain the operations manual current and retain a copy at the location of the sewage pumping station for the operational life of the sewage pumping station. The Owner shall make the manual available to the Ministry, upon request.

(4) The Owner shall make all manuals, plans, records, data, procedures and supporting documentation available to the Ministry, upon request.

7. MONITORING AND RECORDING

The Owner shall, upon the issuance of this Approval, carry out the following monitoring program:

(1) All samples and measurements taken for the purposes of this Approval are to be taken at a time and in a location characteristic of the quality and quantity of the effluent stream over the time period being

monitored.

(2) Samples shall be collected at the following sampling points, at the frequency specified, by means of the specified sample type and analysed for each parameter listed and all results recorded:

Table 1 - Monitoring during a Sewage Pumping Station Overflow Event (Samples to be collected from the Sewage Pumping Station Overflow sewer near the sewage pumping station)	
Sample Type	Grab
Parameters	BOD5, Total Suspended Solids, Total Phosphorus, E. Coli (E. Coli samples may be limited to overflows occurring between Apr 1 and Oct 31)

(3) The methods and protocols for sampling, analysis and recording shall conform, in order of precedence, to the methods and protocols specified in the following:

(a) the Ministry's Procedure F-10-1, "Procedures for Sampling and Analysis Requirements for Municipal and Private Sewage Treatment Works (Liquid Waste Streams Only), as amended from time to time by more recently published editions;

(b) the Ministry's publication "Protocol for the Sampling and Analysis of Industrial/Municipal Wastewater" (January 1999), ISBN 0-7778-1880-9, as amended from time to time by more recently published editions; and

(c) the publication "Standard Methods for the Examination of Water and Wastewater" (21st edition), as amended from time to time by more recently published editions.

8. REPORTING

(1) **Fifteen (15) days** prior to the date of a planned Sewage Pumping Station Overflow being conducted pursuant to Condition 5 and as soon as possible for an unplanned Sewage Pumping Station Overflow, the Owner shall notify the Water Supervisor in writing of the pending start date, in addition to an assessment of the potential adverse effects on the environment and the duration of the Sewage Pumping Station Overflow.

(2) In addition to the obligations under Part X of the Environmental Protection Act, (which includes contacting the Spills Action Centre (SAC) at 1-800-268-6060 or e-mail at moe.sac.moe@ontario.ca), the Owner shall, within **ten (10) working days** of the occurrence of any reportable spill as defined in Ontario Regulation 675/98, Bypass or loss of any product, by-product, intermediate product, oil, solvent, waste material or any other polluting substance into the environment, (with the exception of a sanitary sewage discharged during an Event), submit a full written report of the occurrence to the Water Supervisor describing the cause and discovery of the spill or loss, clean-up and recovery measures taken, preventative measures to be taken and schedule of implementation.

(3) The Owner shall prepare and submit a report to the Water Supervisor on an annual basis. The reports shall contain the following information:

(a) a copy of all Notice of Modifications submitted to the Water Supervisor as a result of Schedule A, Section 1 (Limited Operational Flexibility) with a status report on the implementation of each modification;

(b) a report summarizing all modifications completed as a result of Schedule A, Section 3.

9. LIMITED OPERATIONAL FLEXIBILITY

(1) The Owner may make modifications to the Works in accordance with the Terms and Conditions of this Approval and subject to the Ministry's "Limited Operational Flexibility Criteria for Modifications to Sewage Works", included under Schedule "A" of this Approval, as amended.

(2) The sewage pumping station works proposed under Limited Operational Flexibility shall adhere to the design guidelines contained within the Ministry's publication "Design Guidelines for Sewage Works 2008", as amended.

(3) The Owner shall ensure at all times, that the sewage pumping station works, related equipment and appurtenances which are installed or used to achieve compliance are operated in accordance with all Terms and Conditions of this Approval.

(4) For greater certainty, the following are not permitted as part of Limited Operational Flexibility:

(a) Modifications to the sewage pumping station works that result in an increase of the Rated Capacity of the sewage pumping station works;

(b) Modifications to the sewage pumping station works that may adversely affect the approved effluent quality criteria or the location of the discharge/outfall;

(c) Modifications to the sewage pumping station works approved under s.9 of the EPA, and

(d) Modifications to the sewage pumping station works pursuant to an order issued by the Ministry.

(5) Implementation of Limited Operational Flexibility is not intended to be used for piecemeal measures that result in major alterations or expansions.

(6) If the implementation of Limited Operational Flexibility requires changes to be made to the Emergency Response, Spill Reporting and Contingency Plan, the Owner shall, as deemed necessary in consultation with the Water Supervisor, provide a revised copy of this plan for approval to the local fire services authority prior to implementing Limited Operational Flexibility.

(7) For greater certainty, any alteration made under the Limited Operational Flexibility may only be carried out after other legal obligations have been complied with including those arising from the Environmental Protection Act, Niagara Escarpment Planning and Development Act, Oak Ridges Moraine Conservation Act, Lake Simcoe Protection Act and Greenbelt Act.

(8) Prior to implementing Limited Operational Flexibility, the Owner shall complete a Notice of Modifications describing any proposed modifications to the sewage pumping station works and submit it to the Water Supervisor.

10. TEMPORARY EROSION AND SEDIMENT CONTROL

(1) The Owner shall install and maintain temporary sediment and erosion control measures during construction and conduct inspections once every **two (2) weeks** and after each significant storm event (a significant storm event is defined as a minimum of 25 mm of rain in any 24 hours period). The inspections and maintenance of the temporary sediment and erosion control measures shall continue until they are no longer required and at which time they shall be removed and all disturbed areas reinstated properly.

(2) The Owner shall maintain records of inspections and maintenance which shall be made available for inspection by the Ministry, upon request. The record shall include the name of the inspector, date of inspection, and the remedial measures, if any, undertaken to maintain the temporary sediment and erosion control measures.

11. RECORD KEEPING

The Owner shall retain for a minimum of **five (5) years** from the date of their creation, all records and information related to or resulting from the operation and maintenance activities required by this Approval.

Schedule "A"

Limited Operational Flexibility Criteria for Modifications to Sewage Works

1. The modifications to a sewage pumping station approved under an Environmental Compliance Approval (Approval) that are permitted under the Limited Operational Flexibility (LOF), are outlined below and are subject to the LOF conditions in the Approval, and require the submission of the Notice of Modifications. If there is a conflict between the sewage pumping station works listed below and the Terms and Conditions in the Approval, the Terms and Conditions in the Approval shall take precedence.

1.1 Sewage Pumping Stations

a. Adding or replacing equipment where new equipment is located within an existing sewage pumping station site, provided that the facility Rated Capacity is not exceeded and the existing flow process and/or treatment train are maintained, as applicable.

1.2 Pilot Systems

a. Installation of pilot systems for new or existing technologies provided that:
   i. any effluent from the pilot system is discharged to the inlet of the sewage pumping station or hauled off-site for proper disposal,
   ii. any effluent from the pilot system discharged to the inlet of the sewage pumping station or sewage conveyance system does not significantly alter the composition/concentration of the influent sewage to be treated in the downstream process; and that it does not add any inhibiting substances to the downstream process, and
   iii. the pilot system's duration does not exceed a maximum of two years; and a report with results is submitted to the Director and Water Supervisor three months after completion of the pilot project.

2. Sewage works that are exempt from section 53 of the OWRA by O. Reg. 525/98 continue to be exempt and are not required to follow the notification process under this Limited Operational Flexibility.

3. Normal or emergency operational modifications, such as repairs, reconstructions, or other improvements that are part of maintenance activities, including cleaning, renovations to existing approved sewage works equipment, provided that the modification is made with Equivalent Equipment, are considered pre-approved.

4. The modifications noted in section (3) above are not required to follow the notification protocols under Limited Operational Flexibility, provided that the number of pieces and description of the equipment as described in the Approval does not change.

Ontario
Ministry of
the Environment

Notice of Modification to Sewage Works

RETAIN COPY OF COMPLETED FORM AS PART OF THE ECA AND SEND A COPY TO THE WATER SUPERVISOR (FOR MUNICIPAL) OR DISTRICT MANAGER (FOR NON-MUNICIPAL SYSTEMS)

Part 1 – Environmental Compliance Approval (ECA) with Limited Operational Flexibility

(Insert the ECA's owner, number, issuance date and notice number, which should start with "01" and consecutive numbers thereafter)

ECA Number	Issuance Date (mm/dd/yy)	Notice number (if applicable)

ECA Owner	Municipality

Part 2: Description of the modifications as part of the Limited Operational Flexibility

(Attach a detailed description of the sewage works)

Description shall include:

1. A detail description of the modifications and/or operations to the sewage works (e.g. sewage work component, location, size, equipment type/model, material, process name, etc.)
2. Confirmation that the anticipated environmental effects are negligible.
3. List of updated versions of, or amendments to, all relevant technical documents that are affected by the modifications as applicable, i.e. submission of documentation is not required, but the listing of updated documents is (design brief, drawings, emergency plan, etc.)

Part 3 – Declaration by Professional Engineer

I hereby declare that I have verified the scope and technical aspects of this modification and confirm that the design:

1. Has been prepared or reviewed by a Professional Engineer who is licensed to practice in the Province of Ontario;
2. Conforms with the Limited Operational Flexibility as per the ECA;
3. Has been designed consistent with Ministry's Design Guidelines, adhering to engineering standards, industry's best management practices, and demonstrating ongoing compliance with s.53 of the Ontario Water Resources Act; and other appropriate regulations.

I hereby declare that to the best of my knowledge, information and belief the information contained in this form is complete and accurate.

Name (Print)	PEO License Number

Signature	Date (mm/dd/yy)

Name of Employer

Part 4 – Declaration by Owner

I hereby declare that:

1. I am authorized by the Owner to complete this Declaration;

2. The Owner consents to the modification; and
3. These modifications to the sewage works are proposed in accordance with the Limited Operational Flexibility as described in the ECA.
4. The Owner has fulfilled all applicable requirements of the *Environmental Assessment Act*.
I hereby declare that to the best of my knowledge, information and belief the information contained in this form is complete and accurate.

Name of Owner Representative (Print)	Owner representative's title (Print)
Owner Representative's Signature	Date (mm/dd/yy)

The reasons for the imposition of these terms and conditions are as follows:

1. Condition 1 is imposed to ensure that the Works are built and operated in the manner in which they were described for review and upon which approval was granted. This Condition is also included to emphasize the precedence of Conditions in the Approval and the practice that the Approval is based on the most current document, if several conflicting documents are submitted for review.

2. Condition 2 is included to ensure that, when the Works are constructed, the Works will meet the standards that apply at the time of construction to ensure the ongoing protection of the environment.

3. Condition 3 is included to ensure that the Ministry records are kept accurate and current with respect to approved Works and to ensure that any subsequent Owner of the Works is made aware of the Approval and continue to operate the Works in compliance with it.

4. Condition 4 is included to ensure that the sewage pumping station is constructed in accordance with the Approval and that record drawings of the sewage pumping station "as constructed" are maintained for future reference.

5. Conditions 5 and 7 are included to indicate that Sewage Pumping Station Overflow of untreated and/or partially treated sewage to the environment is prohibited, save in certain limited circumstances where the failure to do so could result in greater injury to the public interest than the Sewage Pumping Station Overflow itself, or where the Sewage Pumping Station Overflow can be limited or otherwise mitigated by handling it in accordance with an approved contingency plan. The notification and documentation requirements allow the Ministry to take action in an informed manner and will ensure the Owner is aware of the extent and frequency of Sewage Pumping Station Overflow Event(s).

6. Condition 6 is included to require that the Works be properly operated, maintained, funded, staffed and equipped such that the environment is protected and deterioration, loss, injury or damage to any person or property is prevented. As well, the inclusion of a comprehensive operations manual for the sewage pumping station governing all significant areas of operation, maintenance and repair is prepared, implemented and kept up-to-date by the Owner and made available to the Ministry. Such a manual is an integral part of the operation of the sewage pumping station. Its compilation and use should assist the Owner in staff training, in proper plant operation and in identifying and planning for contingencies during possible abnormal conditions. The manual will also act as a benchmark for Ministry staff when reviewing the Owner's operation of the Works.

7. Condition 8 is included to provide a performance record for future references, to ensure that the Ministry is made aware of problems as they arise, so that the Ministry can work with the Owner in resolving any problems in a timely manner.

8. Condition 9 is included to ensure that the Works are operated in accordance with the application and supporting documentation submitted by the Owner, and not in a manner which the Director has not been asked to consider. These Conditions are also included to ensure that a Professional Engineer has reviewed the proposed Modifications and attests that the Modifications are in line with that of Limited Operational Flexibility, and provide assurance that the proposed Modifications comply with the Ministry's requirements stipulated in the Terms and Conditions of this Approval, Ministry policies, guidelines, and industry engineering standards and best management practices.

9. Condition 10 is included as installation, regular inspection and maintenance of the temporary sediment and erosion control measures is required to mitigate the impact on the downstream receiving watercourse during construction, until they are no longer required.

10. Condition 11 is included to require that all records are retained for a sufficient time period to adequately evaluate the long-term operation and maintenance of the Works.

In accordance with Section 139 of the Environmental Protection Act, you may by written Notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. Section 142 of the Environmental Protection Act provides that the Notice requiring the hearing shall state:

1. The portions of the environmental compliance approval or each term or condition in the environmental compliance approval in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

The Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The environmental compliance approval number;
6. The date of the environmental compliance approval;
7. The name of the Director, and;
8. The municipality or municipalities within which the project is to be engaged in.

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
655 Bay Street, Suite 1500
Toronto, Ontario
M5G 1E5

AND

The Director appointed for the purposes of
Part II.1 of the Environmental Protection Act
Ministry of the Environment and
Climate Change
135 St. Clair Avenue West, 1st Floor
Toronto, Ontario

M4V 1P5

*** Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 212-6349, Fax: (416) 326-5370 or www.ert.gov.on.ca**

The above noted activity is approved under s.20.3 of Part II.1 of the Environmental Protection Act.

DATED AT TORONTO this 21st day of September, 2016

Gregory Zimmer, P.Eng.
Director
appointed for the purposes of Part II.1 of the
Environmental Protection Act

MS/
c: District Manager, MOECC Ottawa office
Greg McDonald, Novatech
Charles Warnock, Program Manager, City of Ottawa, Development Review
Linda Carkner, Program Manager, City of Ottawa, Infrastructure Services

ENVIRONMENTAL COMPLIANCE APPROVAL
NUMBER 4076-B33QM5
Issue Date: August 20, 2018

Davidson Shea Properties Inc.
237 Somerset Street West
Ottawa, Ontario
K2P 0J3

Site Location: Davidson Lands Phase 1
5993 Flewellyn Road
Part of Lot 25, Concession 9
City of Ottawa

You have applied under section 20.2 of Part II.1 of the Environmental Protection Act, R.S.O. 1990, c. E. 19 (Environmental Protection Act) for approval of:

the establishment of wastewater infrastructure Works located in the City of Ottawa, consisting of the following:

- **storm sewers, sanitary sewers, and ditches** on Eldenwylde Drive (from Station 0+080 to Station 0+610), Block 159 (from Station 0+090 to Station 0+195), Hickstead Way (from Station 0+080 to Station 0+400), Aridus Crescent (from Station 0+253 to Station 0+465), Sendero Way (from Station 0+570 to Station 0+640), Block 162 (from Station 0+085 to Station 0+200), Maygrass Way (from Station 0+095 to Station 0+620), Kayenta Street (from Station 0+095 to Station 0+530), Jardiniere Street (from Station 0+095 to Station 0+745), Block 165 (from Station 0+105 to Station 0+355), Fernbank Road (from Station 113+395 to Station 113+410, from Station 113+479 to Station 113+509, and from Station 113+567 to Station 113+582), Block 165 Ditch (from Station 0+108 to Station 0+265), and a Ditch on the Lands adjacent to Jardiniere Street (from Station 0+435, approximately 24 metres left, extending approximately 190 metres in length to connect to an existing ditch); and

the establishment of stormwater management Works to serve the Davidson Lands Phase 1 Subdivision, located in the City of Ottawa, consisting of the following;

- **one (1) wet pond** for the treatment and disposal of stormwater runoff, to provide Enhanced Level water quality protection and to attenuate post-development peak flows. The proposed wet pond is located west of Shea Road, east of the existing West Wind Development, and south of Fernbank Road. It is completed with one (1) sediment forebay, and will serve a total drainage area of 40.62 hectares (37.55 hectares residential development, 3.07 hectares pond block) and provide an enhanced level (80% TSS) protection. The total depth is 3.25 metres from pond bottom to the invert of the emergency weir. The

permanent pool volume is 9054 cubic metres at an elevation of 101.500. The extended detention volume is 6478 cubic metres at an elevation of 102.100. The total storage volume during the 100-year storm is 32654 cubic metres at an elevation of 103.174. The 100-year pond outflow is 0.605 cubic metres per second, and the 100-year pond level is 103.174 metres. The outlet ditch extending from the stormwater management pond is approximately 135 metres in length; and

- **improvements to the Faulkner Municipal Drain Tributary** (approximately 330 metres) through modification by the realigning, deepening, and vegetating of municipal drain tributary and remediation of the tributary along the west area of the new stormwater management facility;

including erosion/sedimentation control measures during construction and all other controls and appurtenances essential for the proper operation of the aforementioned Works;

all in accordance with the submitted application and supporting documents listed in Schedule "A" forming part of this Approval.

For the purpose of this environmental compliance approval, the following definitions apply:

1. "Approval" means this entire document and any schedules attached to it, and the application;

2. "Director" means a person appointed by the Minister pursuant to section 5 of the EPA for the purposes of Part II.1 of the EPA;

3. "District Manager" means the District Manager of the appropriate local District Office of the Ministry, where the Works are geographically located;

4. "EPA" means the *Environmental Protection Act,* R.S.O. 1990, c.E.19, as amended;

5. "Ministry" means the ministry of the government of Ontario responsible for the EPA and OWRA and includes all officials, employees or other persons acting on its behalf;

6. "Owner" means Davidson Shea Properties Inc., and includes its successors and assignees;

7. "OWRA" means the *Ontario Water Resources Act, R.S.O. 1990, c. O.40* , as amended;

8. "Wet Event" means a rainfall event with a minimum of 15 millimetres of rain in a 24 hour period;

9. "Works" means the sewage Works described in the Owner's application, and this Approval.

You are hereby notified that this environmental compliance approval is issued to you subject to the terms and

conditions outlined below:

TERMS AND CONDITIONS

1. GENERAL CONDITIONS

1. The Owner shall ensure that any person authorized to carry out work on or operate any aspect of the Works is notified of this Approval and the conditions herein and shall take all reasonable measures to ensure any such person complies with the same.

2. Except as otherwise provided by these Conditions, the Owner shall design, build, install, operate and maintain the Works in accordance with the description given in this Approval, and the application for approval of the Works.

3. Where there is a conflict between a provision of any document in the schedule referred to in this Approval and the conditions of this Approval, the conditions in this Approval shall take precedence, and where there is a conflict between the documents in the schedule, the document bearing the most recent date shall prevail.

4. Where there is a conflict between the documents listed in Schedule "A" and the application, the application shall take precedence unless it is clear that the purpose of the document was to amend the application.

5. The conditions of this Approval are severable. If any condition of this Approval, or the application of any requirement of this Approval to any circumstance, is held invalid or unenforceable, the application of such condition to other circumstances and the remainder of this Approval shall not be affected thereby.

2. EXPIRY OF APPROVAL

1. This Approval will cease to apply to those parts of the Works which have not been constructed within five (5) years of the date of this Approval.

2. In the event that completion and commissioning of any portion of the Works is anticipated to be delayed beyond the specified expiry period, the Owner shall submit an application of extension to the expiry period, at least twelve (12) months prior to the end of the period. The application for extension shall include the reason(s) for the delay, whether there is any design change(s) and a review of whether the standards applicable at the time of Approval of the Works are still applicable at the time of request for extension, to ensure the ongoing protection of the environment.

3. CHANGE OF OWNER

1. The Owner shall notify the District Manager and the Director, in writing, of any of the following changes within thirty (30) days of the change occurring:

a. change of Owner;

b. change of address of the Owner;

c. change of partners where the Owner is or at any time becomes a partnership, and a copy of the most recent declaration filed under the *Business Names Act,* R.S.O. 1990, c.B17 shall be included in the notification to the District Manager; or

d. change of name of the corporation where the Owner is or at any time becomes a corporation, and a copy of the most current information filed under the *Corporations Information Act,* R.S.O. 1990, c. C39 shall be included in the notification to the District Manager.

2. In the event of any change in ownership of the Works, other than a change to a successor municipality, the Owner shall notify in writing the succeeding owner of the existence of this Approval, and a copy of such notice shall be forwarded to the District Manager and the Director.

3. The Owner shall ensure that all communications made pursuant to this condition refer to the number at the top of this Approval.

4. OPERATION AND MAINTENANCE

1. If applicable, any proposed storm sewers or other stormwater conveyance in this Approval can be constructed but not operated until the proposed stormwater management facilities in this Approval or any other Approval that are designed to service the storm sewers or other stormwater conveyance are in operation.

2. The Owner shall make all necessary investigations, take all necessary steps and obtain all necessary approvals so as to ensure that the physical structure, siting and operations of the Works do not constitute a safety or health hazard to the general public.

3. The Owner shall inspect and ensure that the design minimum liquid retention volume is maintained in the Works at all times, except when maintenance is required.

4. The Owner shall undertake an inspection of the condition of the Works, at least once a year, and undertake any necessary cleaning and maintenance to ensure that sediment, debris and excessive decaying vegetation are removed from the Works to prevent the excessive build-up of sediment, oil/grit, debris and/or decaying vegetation, to avoid reduction of the capacity and/or permeability of the Works, as applicable. The Owner shall also regularly inspect and clean out the inlet to and outlet from the Works to ensure that these are not obstructed.

5. The Owner shall construct, operate and maintain the Works with the objective that the effluent from the Works is essentially free of floating and settleable solids and does not

contain oil or any other substance in amounts sufficient to create a visible film, sheen, foam or discoloration on the receiving waters.

6. The Owner shall maintain a logbook to record the results of these inspections and any cleaning and maintenance operations undertaken, and shall keep the logbook at the Owner's administrative office for inspection by the Ministry. The logbook shall include the following:

    a. the name of the Works; and

    b. the date and results of each inspection, maintenance and cleaning, including an estimate of the quantity of any materials removed and method of clean-out of the Works.

7. The Owner shall prepare an operations manual prior to the commencement of operation of the Works that includes, but is not necessarily limited to, the following information:

    a. operating and maintenance procedures for routine operation of the Works;

    b. inspection programs, including frequency of inspection, for the Works and the methods or tests employed to detect when maintenance is necessary;

    c. repair and maintenance programs, including the frequency of repair and maintenance for the Works;

    d. contingency plans and procedures for dealing with potential spills and any other abnormal situations and for notifying the District Manager; and

    e. procedures for receiving, responding and recording public complaints, including recording any follow-up actions taken.

8. The Owner shall maintain the operations manual current and retain a copy at the Owner's administrative office for the operational life of the Works. Upon request, the Owner shall make the manual available to Ministry staff.

5. TEMPORARY EROSION AND SEDIMENT CONTROL

1. The Owner shall install and maintain temporary sediment and erosion control measures during construction and conduct inspections once every two (2) weeks and after each significant storm event (a significant storm event is defined as a minimum of 25 mm of rain in any 24 hours period). The inspections and maintenance of the temporary sediment and erosion control measures shall continue until they are no longer required and at which time they shall be removed and all disturbed areas reinstated properly.

2. The Owner shall maintain records of inspections and maintenance which shall be made

available for inspection by the Ministry, upon request. The record shall include the name of the inspector, date of inspection, and the remedial measures, if any, undertaken to maintain the temporary sediment and erosion control measures.

6. MONITORING AND RECORDING

1. The Owner shall, upon commencement of operation of the Works, carry out the following monitoring program:

    a. All samples and measurements taken for the purposes of this Approval are to be taken at a time and in a location characteristic of the quality and quantity of the effluent stream over the time period being monitored.

    b. Samples shall be collected at the following sampling points, at the frequency specified, by means of the specified sample type and analyzed for each parameter listed and all results recorded, as outlined in Schedule "B".

    c. The methods and protocols for sampling, analysis and recording shall conform, in order of precedence, to the methods and protocols specified in the following:

        i. the Ministry's Procedure F-10-1, "Procedures for Sampling and Analysis Requirements for Municipal and Private Sewage Treatment Works (Liquid Waste Streams Only)", as amended from time to time by more recently published editions;

        ii. the Ministry's publication "Protocol for the Sampling and Analysis of Industrial/Municipal Wastewater" (January 1999), ISBN 0-7778-1880-9, as amended from time to time by more recently published editions; and

        iii. the publication "Standard Methods for the Examination of Water and Wastewater" (21st edition), as amended from time to time by more recently published editions.

7. REPORTING

1. One (1) week prior to the start-up of the operation of the Works, the Owner shall notify the District Manager (in writing) of the pending start-up date.

2. The Owner shall, upon request, make all reports, manuals, plans, records, data, procedures and supporting documentation available to Ministry staff.

3. The Owner shall prepare a performance report within ninety (90) days following the end of the period being reported upon, and submit the report(s) to the District Manager when requested. The first such report shall cover the first annual period following the commencement of operation of the Works and subsequent reports shall be prepared to

cover successive annual periods following thereafter. The reports shall contain, but shall not be limited to, the following information:

a. a summary and interpretation of all monitoring data and an overview of the success and adequacy of the Works, including demonstration using the monitoring data that the appropriate level of quality control has been achieved;

b. a description of any operating problems encountered and corrective actions taken;

c. a summary of all maintenance carried out on any major structure, equipment, apparatus, mechanism or thing forming part of the Works, including an estimate of the quantity of any materials removed from the Works;

d. a summary of the calibration and maintenance carried out on all monitoring equipment;

e. a summary of any complaints received during the reporting period and any steps taken to address the complaints;

f. a summary of all spill or abnormal discharge events; and

g. any other information the District Manager requires from time to time.

8. RECORD KEEPING

1. The Owner shall retain for a minimum of five (5) years from the date of their creation, all records and information related to or resulting from the operation, maintenance and monitoring activities required by this Approval.

Schedule "A"

1. Application for Environmental Compliance Approval, dated April 4, 2018, received on July 16, 2018, submitted by Davidson Shea Properties Inc.;

2. Transfer of Review Letter of Recommendation, dated July 12, 2018 and signed by Charles Warnock, P.Eng., Program Manager, Development Review Process, Suburban Services, City of Ottawa, including the following supporting documents:

   a. Final Plans and Specifications prepared by IBI Group Inc. and David Schaeffer Engineering Ltd.

   b. Pipe Data Form - Watermain, Storm Sewer, Sanitary Sewer, and Forcemain Design Supplement to Application for Approval for Waster and Sewage Works.

   c. Hydraulic Design Sheets, prepared by IBI Group Inc.

   d. Stormwater Management Report prepared by David Schaeffer Engineering Ltd.

3. Emails dated July 24, 2018 from Kevin Murphy, P.Eng., David Schaeffer Engineering Ltd., and July 30, 2018, from Ed Ireland, IBI Group.

Schedule "B"

Table 1: Effluent Monitoring

(Samples to be collected from the influent and effluent streams of the Davidson Lands Phase 1 Stormwater Management Pond)

Sample Type	Grab
Frequency	Three (3) rainfall *Wet Events* per year, with two (2) of the events occurring between May and September
Parameters	Total Suspended Solids, Phosphorus and Temperature

The reasons for the imposition of these terms and conditions are as follows:

1. Condition 1 is imposed to ensure that the Works are constructed and operated in the manner in which they were described and upon which approval was granted. This condition is also included to emphasize the precedence of conditions in the Approval and the practice that the Approval is based on the most current document, if several conflicting documents are submitted for review.

2. Condition 2 is included to ensure that, when the Works are constructed, the Works will meet the standards that apply at the time of construction to ensure the ongoing protection of the environment.

3. Condition 3 is included to ensure that the Ministry records are kept accurate and current with respect to the approved Works and to ensure that subsequent owners of the Works are made aware of the Approval and continue to operate the Works in compliance with it.

4. Condition 4 is included as regular inspection and necessary removal of sediment and excessive decaying vegetation from the Works are required to mitigate the impact of sediment, debris and/or decaying vegetation on the treatment capacity of the Works. The Condition also ensures that adequate storage is maintained in the Works at all times as required by the design. Furthermore, this Condition is included to ensure that the Works are operated and maintained to function as designed.

5. Condition 5 is included as installation, regular inspection and maintenance of the temporary sediment and erosion control measures is required to mitigate the impact on the downstream receiving watercourse during construction until they are no longer required.

6. Condition 6 is included to enable the Owner to evaluate and demonstrate the performance of the Works, on a continual basis, so that the Works are properly operated and maintained at a level which is consistent with the design objectives specified in the Approval and that the Works do not cause any impairment to the receiving watercourse or the environment.}

7. Condition 7 is included to provide a performance record for future references, to ensure that the Ministry is made aware of problems as they arise, and to provide a compliance record for all the terms and conditions outlined in this Approval, so that the Ministry can work with the Owner in resolving any problems in a timely manner.

8. Condition 8 is included to require that all records are retained for a sufficient time period to adequately evaluate the long-term operation and maintenance of the Works.

In accordance with Section 139 of the Environmental Protection Act, you may by written Notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. Section 142 of the Environmental Protection Act provides that the Notice requiring the hearing shall

state:

a. The portions of the environmental compliance approval or each term or condition in the environmental compliance approval in respect of which the hearing is required, and;
b. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

The Notice should also include:

1. The name of the appellant;
2. The address of the appellant;
3. The environmental compliance approval number;
4. The date of the environmental compliance approval;
5. The name of the Director, and;
6. The municipality or municipalities within which the project is to be engaged in.

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
655 Bay Street, Suite 1500
Toronto, Ontario
M5G 1E5

AND

The Director appointed for the purposes of
Part II.1 of the Environmental Protection Act
Ministry of the Environment,
Conservation and Parks
135 St. Clair Avenue West, 1st Floor
Toronto, Ontario
M4V 1P5

*** Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 212-6349, Fax: (416) 326-5370 or www.ert.gov.on.ca**

The above noted activity is approved under s.20.3 of Part II.1 of the Environmental Protection Act.

DATED AT TORONTO this 20th day of August, 2018

C. Labarge

Christina Labarge, P.Eng.
Director
appointed for the purposes of Part II.1 of the
Environmental Protection Act

GD/

c: District Manager, MECP Ottawa
Eric Surprenant, Program Manager, West Branch
Lance Erion, P.Eng., IBI Group
Kevin Murphy, P.Eng., David Schaeffer Engineering Ltd.
Clerk, City of Ottawa (File No. D07-16-15-0008)

From: Greg MacDonald
To: Hu, Yue (MOECC)
Cc: Sam Bahia
Subject: RE: MOE Ref.# 5712-ACUPA5 info request
Date: August 16, 2016 3:03:45 PM

Operating Authority

City of Ottawa
City Operations Portfolio
Environmental Services Department
Wastewater Management Branch
800 Green Creek Drive
Ottawa, Ontario K1J 1A6
Mr. Michael Burt, P.Eng.
613-580-2424 ext. 22624

5993 Flewellyn Road

This is owned by Bill Davidson and the Letter of Authorization is contained in Attachment 3 of the document. The subject lands are described as Part 1 on the Draft 4R Plan. The other lands described as Parts 1-8 on the other draft 4R plan are owned by Davidson Co-Tenancy and Letter of Authorization is also included..

Greg MacDonald, P. Eng.
Senior Project Manager
NOVATECH Engineers, Planners & Landscape Architects
240 Michael Cowpland Drive, Suite 200, Ottawa, ON, K2M 1P6 | Tel: 613.254.9643 x279 | Cell: 613.890.9705 | Fax: 613.254.5867

From: Hu, Yue (MOECC) [mailto:Yue.Hu@ontario.ca]
Sent: Tuesday, August 16, 2016 2:20 PM
To: Greg MacDonald <g.Macdonald@novatech-eng.com>; a.lambrose@novatech-eng.com; Carl Sciuk <c.sciuk@novatech-eng.com>
Subject: MOE Ref.# 5712-ACUPA5 info request

Hi,

We have received the transfer of review application from Stittsville South Inc. and 1384341 Ontario Ltd. for sanitary pumping station to be constructed on 5970 Fernbank Road and part of 5993 Flewellyn Road in the City of Ottawa. I have screened through the submission for completeness and I realized the following information is necessary for us to continue working on the file:

1. Operating authority (please provide the operating authority's name, address and phone

number)

2. Site owner authorization (only letter of authorization from 5970 Fernbank Road was submitted, please confirm who is the owner for 5993 Flewellyn Road)

Please send the above required information to me by August 26, 2016.

Thanks,
Janice

Janice (Yue Hu)
Application Assessment Assistant | Application Assessment Unit
Environmental Approvals Access and Service Integration Branch
Ministry of the Environment and Climate Change
135 St. Clair Ave. West, 1st Floor | Toronto, Ontario M4V 1P5
Email: Yue.Hu@ontario.ca
Phone: 416-212-3680

Ministry of the Environment and Climate Change
Operations Division
1st Floor
135 St Clair Ave W
Toronto ON M4V 1P5
Fax: (416) 314-8452
Telephone:

Ministère de l'Environnement et de l'Action en matière de changement climatique
Division des Opérations
1er étage
135 av St Clair O
Toronto ON M4V 1P5
Télécopieur : (416) 314-8452
Téléphone :

Ontario

August 16, 2016

ToR – Letter not Required.

Dear Sir/Madam:

Re: Application for Approval of Municipal and Private Sewage Works
ToR - Sanitary Pump Station for Fernbank Road
Ottawa City
Reference Number 5712-ACUPA5

We acknowledge receipt of your application for approval dated March 3, 2016 and received on August 12, 2016 for the following:

Approval Type:	Municipal and Private Sewage Works
Project Description:	The proposal is for a new Environmental Compliance Approval from Sttittsville South Inc. and 1384341 Ontario Ltd. for the installation of Sanitary Sewers and Sanitary Pump Station to be constructed on Fernbank Road and Flewellyn Road in the City of Ottawa.
Site Location:	5970 Fernbank Road and part of 5993 Flewellyn Road Ottawa City, Ontario

The Ministry's reference number for your application is 5712-ACUPA5. Please quote this number in any correspondence or enquiries regarding this application.

We have screened your submission for completeness and find that the following additional information/documentation is necessary for us to process your application:

1. **Operating Authority**
2. **Confirm the Site Owner**

Please be advised that should we not receive the above information/documentation or a response with explanations within two weeks of the date of this letter, we will consider your application withdrawn, and close your file accordingly.

Please note that your submission has only been screened with respect to the presence of the supporting documentation normally required for this type of application, and did not include any technical analysis of the documentation, and therefore you may still be requested to provide some additional information during our detailed technical review of the application. In such a case, the Reviewer will contact you and/or your identified Project Technical Information Contact at that time.

Also, please note that a duplicate copy of the application and all supporting information should have been sent to the local District Office of the Ministry. If this has not been done, please do so as soon as possible including the missing information/documentation identified above.

Should you have any questions related to your application, please contact me at the above phone number.

Sincerely,

Yue Hu
Environmental Assistant

c: District Manager, MOECC Ottawa
Greg McDonald, Novatech
Carl Sciuk, Novatech
Adam Lambros, Novatech

Ontario

Ministry of the Environment and Climate Change
Ministère de l'Environnement et de l'Action en matière de changement climatique

COMMENT / MEMORANDUM TO FILE

Document Author:	Amanda Fishman
Created On:	2016/10/05
C of A:	M&P Sewage CofA
Client:	Stittsville South Inc. and 1384341 Ontario Ltd.
Project Description:	
Reference Number:	8106-AEFHCW
Subject:	Source Protection: Screened Out

Notes:

This application has been screened using the Source Protection Information and Policy Search Tool and it was determined that the activity is not considered a significant drinking water threat and no source protection policies apply.

Document Links and Comments:	Insert Comments Here
Attachment Names:	

Ministry of the Environment and Climate Change
Operations Division
1st Floor
135 St Clair Ave W
Toronto ON M4V 1P5
Fax: (416) 314-8452
Telephone:

Ministère de l'Environnement et de l'Action en matière de changement climatique
Division des Opérations
1er étage
135 av St Clair O
Toronto ON M4V 1P5
Télécopieur : (416) 314-8452
Téléphone :

Ontario

October 5, 2016

ToR- Letter Not Required
David Kardish
Stittsville South Inc. and 1384341 Ontario Ltd.
1737 Woodward Dr 2nd Floor
Ottawa, Ontario
K2C 0P9

Dear Sir:

Re: Application for Approval of Municipal and Private Sewage Works
ToR- Sanitary and Storm Sewers for Stittsville South Subdivision
City of Ottawa
Reference Number 8106-AEFHCW

We acknowledge receipt of your application for approval dated March 3, 2016 and received on October 4, 2016 for the following:

Approval Type:	Municipal and Private Sewage Works
Project Description:	This application is for approval to install storm and sanitary sewers for Sittsville South Subdivision.
Site Location:	Stittsville South Subdivision Part of 6070 Fernbank Road City of Ottawa

The Ministry's reference number for your application is 8106-AEFHCW. Please quote this number in any correspondence or enquiries regarding this application.

Please note that your submission has only been screened with respect to the presence of the supporting documentation normally required for this type of application, and did not include any technical analysis of the documentation, and therefore you may still be requested to provide some additional information during our detailed technical review of the application. In such a case, the Reviewer will contact you and/or your identified Project Technical Information Contact at this time.

Also, please note that a duplicate copy of the application and all supporting information should have been sent to the local District Office of the Ministry. If this has not been done, please do so as soon as possible.

Should you have any questions related to your application, please contact me at the above phone number.

Sincerely,

Amanda Fishman
Application Assessment Assistant

c: District Manager, MOECC Ottawa
Bassam Bahia, P. Eng., Novatech Engineering Consultants Ltd.

Ontario

Ministry of the Environment and Climate Change
Ministère de l'Environnement et de l'Action en matière de changement climatique

COMMENT / MEMORANDUM TO FILE

Document Author:	Dylan Goldman
Created On:	2016/10/05
C of A:	M&P Sewage CofA
Client:	Stittsville South Inc. and 1384341 Ontario Ltd.
Project Description:	
Reference Number:	8106-AEFHCW
Subject:	Payment

Notes:

Client provided payment information which was declined at POS. Credit card information was destroyed.

Document Links and Comments:	Insert Comments Here
Attachment Names:	

From: Shah, Miten (MOECC)
To: "Greg MacDonald"
Subject: RE: ECA Number 3415-ADQLJG or Ref. No. 5712-ACUPA5
Date: November 24, 2016 3:47:00 PM

Hi Greg,

Based on provided details and clarification in your e-mail below about the changes in forcemain location, you do not need to apply for an amendment to ECA.

Thanks,

Miten Shah
Application Assessment Officer

Environmental Approvals Access & Service Integration Branch,
Ministry of the Environment and Climate Change
135 St. Clair Ave. W., 2nd Floor,
Toronto, ON, Canada, M4V 1P5
Tel: (416) 212-3679 | Fax: (416) 314-8452

From: Greg MacDonald [mailto:g.Macdonald@novatech-eng.com]
Sent: November-18-16 2:20 PM
To: Shah, Miten (MOECC)
Subject: ECA Number 3415-ADQLJG or Ref. No. 5712-ACUPA5

Good Afternoon, Miten:

Attached is the section of Forcemain that would be revised. The revised location is a result of some re-lotting done by the developer and the resulting change in location of the roadway. I am attaching the revised drawing No. 113004-PR-FM3 which shows the new FM location. Also marked in red for your information is the old FM location .. The wording of the ECA will not need to be changed. In both cases the forcemain remains in the same location in the road right of way. So my questions are:

1. Will this change really require an application to amend the ECA? I would like to present the following rationale why I think it would not be necessary:
    a. The wording of the existing ECA would not change, e.g. ""approximately 870 meters of dual 200 mm diameter HDPE DR13.5 ....." does not change.
    b. The location of the FM still remains with the same spot in the roadway corridor
    c. The design and hydraulics of the FM does not change
    d. Final As-Builts will be given to City showing the final location

Please advise. If you still maintain that an amendment application is required would it be an "Administrative Amendment" at a fee of $200? Would we just reference the existing ECA and not have to submit all of the paperwork again (e.g., design brief, zoning confirmation, etc. etc.)

I look forward to your response.

Thank You.

Greg MacDonald, P. Eng.
Senior Project Manager
NOVATECH Engineers, Planners & Landscape Architects
240 Michael Cowpland Drive, Suite 200, Ottawa, ON, K2M 1P6 | Tel: 613.254.9643 x279 | Cell: 613.890.9705 | Fax: 613.254.5867

From: Shah, Miten (MOECC) [mailto:Miten.Shah@ontario.ca]
Sent: Tuesday, October 11, 2016 1:26 PM
To: Greg MacDonald <g.Macdonald@novatech-eng.com>
Subject: RE: Approved ECA for ToR Ref # 5712-ACUPA5

Hi Greg,

Further to my voicemail, please note that if you wish to include proposed changes to forcemain, you are required to apply for an amendment of ECA (probably with the City - under Transfer of Review) along with revised drawings and applicable fees.

Should you have any question, please contact me.

Thanks
Miten

From: Greg MacDonald [mailto:g.Macdonald@novatech-eng.com]
Sent: October-04-16 11:08 AM
To: Shah, Miten (MOECC)
Cc: Primeau, Charlie (MOECC)
Subject: Approved ECA for ToR Ref # 5712-ACUPA5

Thank you for forwarding the ECA for the Shea Road Pump Station and Forcemain. I have a question, as follows:

Currently the dual forcemains are located in a future road right of way 1.5 meters behind the curb. If we were to locate the forcemain to behind the curb on the opposite side of the road would this require an amendment to the ECA? The width of the asphalt roadway is 8.5 meters. The profile of the forcemain (e.g. top of forcemain elevation) would remain the same.

Your advise is requested.

Regards,

Greg MacDonald, P. Eng.

Senior Project Manager
NOVATECH Engineers, Planners & Landscape Architects
240 Michael Cowpland Drive, Suite 200, Ottawa, ON, K2M 1P6 | Tel: 613.254.9643 x279 | Cell: 613.890.9705 | Fax: 613.254.5867

From: Shah, Miten (MOECC) [mailto:Miten.Shah@ontario.ca]
Sent: Wednesday, September 21, 2016 10:00 AM
To: Greg MacDonald <g.Macdonald@novatech-eng.com>; Newton, Tim <Tim.Newton@ottawa.ca>; Warnock, Charles <Charles.Warnock@ottawa.ca>
Cc: Burt, Michael <Michael.Burt@ottawa.ca>; Carl Sciuk <c.sciuk@novatech-eng.com>
Subject: Approved ECA for ToR Ref # 5712-ACUPA5

Good Morning,

Please find attached pdf version of approved ECA. Hard copy of the ECA will be send out soon via mail.

Thank you.

Miten Shah
Application Assessment Officer

Environmental Approvals Access & Service Integration Branch,
Ministry of the Environment and Climate Change
135 St. Clair Ave. W., 2nd Floor,
Toronto, ON, Canada, M4V 1P5
Tel: (416) 212-3679 | Fax: (416) 314-8452

From: Greg MacDonald [mailto:g.Macdonald@novatech-eng.com]
Sent: September-19-16 9:50 AM
To: Shah, Miten (MOECC); Newton, Tim; Warnock, Charles
Cc: Burt, Michael; Carl Sciuk
Subject: RE: Draft ECA , ToR Ref # 5712-ACUPA5

Will be registered in future

Greg MacDonald, P. Eng.
Senior Project Manager
NOVATECH Engineers, Planners & Landscape Architects
240 Michael Cowpland Drive, Suite 200, Ottawa, ON, K2M 1P6 | Tel: 613.254.9643 x279 | Cell: 613.890.9705 | Fax: 613.254.5867

From: Shah, Miten (MOECC) [mailto:Miten.Shah@ontario.ca]
Sent: Monday, September 19, 2016 8:35 AM

To: Newton, Tim <Tim.Newton@ottawa.ca>; Warnock, Charles <Charles.Warnock@ottawa.ca>
Cc: Burt, Michael <Michael.Burt@ottawa.ca>; Greg MacDonald <g.Macdonald@novatech-eng.com>; Carl Sciuk <c.sciuk@novatech-eng.com>
Subject: RE: Draft ECA , ToR Ref # 5712-ACUPA5

Hi Charles/Tim,

Could you please clarify related to proposed 170 KW Generator (wording in red in draft ECA) -- "**already registered under EASR**" or **"will be registered in future"**.

Thanks
Miten

From: Shah, Miten (MOECC)
Sent: September-19-16 8:16 AM
To: 'Newton, Tim'
Cc: Warnock, Charles; Burt, Michael; 'Greg MacDonald'; 'Carl Sciuk'
Subject: RE: Draft ECA , ToR Ref # 5712-ACUPA5

Good Morning Tim,

Thank you for your response.

Please note that this is our standard condition we use for all our pumping station ECAs and we prefer not to change standard description, to maintain consistency of approvals.

As there is no additional comment, I am going to forward this draft for the approval.

Thanks,

Miten Shah
Application Assessment Officer

Environmental Approvals Access & Service Integration Branch,
Ministry of the Environment and Climate Change
135 St. Clair Ave. W., 2nd Floor,
Toronto, ON, Canada, M4V 1P5
Tel: (416) 212-3679 | Fax: (416) 314-8452

From: Newton, Tim [mailto:Tim.Newton@ottawa.ca]
Sent: September-17-16 5:10 PM
To: Shah, Miten (MOECC)
Cc: Warnock, Charles; Burt, Michael; 'Greg MacDonald'; 'Carl Sciuk'
Subject: FW: Draft ECA , ToR Ref # 5712-ACUPA5

Miten

The City would prefer to see Condition 5, para (4) revised to remove *"one at the beginning of the Event and the second approximately near the end of the Event"*, so that the paragraph reads:

(4) The Owner shall use best efforts to collect a representative sample consisting of a minimum of two
(2) grab samples of the Sewage Pumping Station Overflow and have it analysed for parameters outlined
in Table 1 of Condition 7 (2) using the protocols specified in Condition 7 (3), to best reflect the effluent quality of such
Sewage Pumping Station Overflow.

Regards,

Tim Newton
Senior Engineer Infrastructure Applications (Suburban Services - West)
Planning, Infrastructure and Economic Development Department
110 Laurier Avenue West
Tel: 613-580-2424, Ext. 16023
Fax: 613-560-6006
E-mail: Tim.Newton@ottawa.ca
ottawa.ca/planning / ottawa.ca/urbanisme

From: Warnock, Charles
Sent: Wednesday, September 14, 2016 9:24 AM
To: Newton, Tim
Subject: Draft ECA , ToR Ref # 5712-ACUPA5

Hi Tim, could you look at this draft and let me know if you have any comments.
Thanks.
Charles

From: Shah, Miten (MOECC) [mailto:Miten.Shah@ontario.ca]
Sent: September 13, 2016 7:39 AM
To: Warnock, Charles; g.macdonald@novatech-eng.com
Cc: c.sciuk@novatech-eng.com
Subject: Draft ECA , ToR Ref # 5712-ACUPA5

Good Morning,

Please find attached **Draft ECA** for Transfer of Review (ToR) ECA application with MOE **Ref # 5712-ACUPA5**, for Stittsville South Inc. and 1384341 Ontario Ltd., related to proposed Stittsville South Area 6 Sanitary Pumping Station, located in the City of Ottawa.

Please review the draft, confirm wording in red, and respond with any additional comments you may have. However, this draft has not been reviewed by my supervisor yet and there may be some changes in later stage.

Try to provide your response by September 15, 2016, to continue review of this application.

Should you have any questions, please contact me.

Thank you.

Miten Shah
Application Assessment Officer

Environmental Approvals Access & Service Integration Branch,
Ministry of the Environment and Climate Change
135 St. Clair Ave. W., 2nd Floor,
Toronto, ON, Canada, M4V 1P5
Tel: (416) 212-3679 | Fax: (416) 314-8452

From:	Zimmer, Gregory (MOECC)
To:	Shah, Miten (MOECC)
Subject:	RE: ECA Number 3415-ADQLJG or Ref. No. 5712-ACUPA5
Date:	November 23, 2016 3:26:27 PM

Yup yup!

Gregory Zimmer, P.Eng.
Supervisor, Application Review Unit
Environmental Approvals Access and Service Integration Branch, Ministry of the Environment and Climate Change
135 St Clair Ave W, 2nd Floor, Toronto, ON, M4V 1P5
P: 416-314-8172

From: Shah, Miten (MOECC)
Sent: November 23, 2016 3:26 PM
To: Zimmer, Gregory (MOECC)
Subject: RE: ECA Number 3415-ADQLJG or Ref. No. 5712-ACUPA5

Thanks Greg. Should I reply to them?
Miten

From: Zimmer, Gregory (MOECC)
Sent: November-23-16 3:23 PM
To: Shah, Miten (MOECC)
Subject: RE: ECA Number 3415-ADQLJG or Ref. No. 5712-ACUPA5

Its fine they don't need an amendment

Gregory Zimmer, P.Eng.
Supervisor, Application Review Unit
Environmental Approvals Access and Service Integration Branch, Ministry of the Environment and Climate Change
135 St Clair Ave W, 2nd Floor, Toronto, ON, M4V 1P5
P: 416-314-8172

From: Shah, Miten (MOECC)
Sent: November 22, 2016 9:32 AM
To: Zimmer, Gregory (MOECC)
Subject: FW: ECA Number 3415-ADQLJG or Ref. No. 5712-ACUPA5

Good Morning Greg,

Please see below e-mail and attachment I received from consultant. This was related to ToR ECA (# 3415-ADQLJG issued on Sept 21, 2016) for pumping station and forcemain.

Please do needful to provide response or if you want me to respond, please advise requirements in this case.

Thank you,

Miten

From: Greg MacDonald [mailto:g.Macdonald@novatech-eng.com]
Sent: November-18-16 2:20 PM
To: Shah, Miten (MOECC)
Subject: ECA Number 3415-ADQLJG or Ref. No. 5712-ACUPA5

Good Afternoon, Miten:

Attached is the section of Forcemain that would be revised. The revised location is a result of some re-lotting done by the developer and the resulting change in location of the roadway. I am attaching the revised drawing No. 113004-PR-FM3 which shows the new FM location. **Also marked in red for your information is the old FM location** .. The wording of the ECA will not need to be changed. In both cases the forcemain remains in the same location in the road right of way. So my questions are:

1. Will this change really require an application to amend the ECA? I would like to present the following rationale why I think it would not be necessary:
    a. The wording of the existing ECA would not change, e.g. ""approximately 870 meters of dual 200 mm diameter HDPE DR13.5 ....." does not change.
    b. The location of the FM still remains with the same spot in the roadway corridor
    c. The design and hydraulics of the FM does not change
    d. Final As-Builts will be given to City showing the final location

Please advise. If you still maintain that an amendment application is required would it be an "Administrative Amendment" at a fee of $200? Would we just reference the existing ECA and not have to submit all of the paperwork again (e.g., design brief, zoning confirmation, etc. etc.)

I look forward to your response.

Thank You.

Greg MacDonald, P. Eng.
Senior Project Manager
NOVATECH Engineers, Planners & Landscape Architects
240 Michael Cowpland Drive, Suite 200, Ottawa, ON, K2M 1P6 | Tel: 613.254.9643 x279 | Cell: 613.890.9705 | Fax: 613.254.5867

From: Shah, Miten (MOECC) [mailto:Miten.Shah@ontario.ca]
Sent: Tuesday, October 11, 2016 1:26 PM
To: Greg MacDonald <g.Macdonald@novatech-eng.com>
Subject: RE: Approved ECA for ToR Ref # 5712-ACUPA5

Hi Greg,

Further to my voicemail, please note that if you wish to include proposed changes to forcemain, you are required to apply for an amendment of ECA (probably with the City - under Transfer of Review) along with revised drawings and applicable fees.

Should you have any question, please contact me.

Thanks
Miten

From: Greg MacDonald [mailto:g.Macdonald@novatech-eng.com]
Sent: October-04-16 11:08 AM
To: Shah, Miten (MOECC)
Cc: Primeau, Charlie (MOECC)
Subject: Approved ECA for ToR Ref # 5712-ACUPA5

Thank you for forwarding the ECA for the Shea Road Pump Station and Forcemain. I have a question, as follows:

Currently the dual forcemains are located in a future road right of way 1.5 meters behind the curb. If we were to locate the forcemain to behind the curb on the opposite side of the road would this require an amendment to the ECA? The width of the asphalt roadway is 8.5 meters. The profile of the forcemain (e.g. top of forcemain elevation) would remain the same.

Your advise is requested.

Regards,

Greg MacDonald, P. Eng.
Senior Project Manager
NOVATECH Engineers, Planners & Landscape Architects
240 Michael Cowpland Drive, Suite 200, Ottawa, ON, K2M 1P6 | Tel: 613.254.9643 x279 | Cell: 613.890.9705 | Fax: 613.254.5867

From: Shah, Miten (MOECC) [mailto:Miten.Shah@ontario.ca]
Sent: Wednesday, September 21, 2016 10:00 AM
To: Greg MacDonald <g.Macdonald@novatech-eng.com>; Newton, Tim <Tim.Newton@ottawa.ca>; Warnock, Charles <Charles.Warnock@ottawa.ca>
Cc: Burt, Michael <Michael.Burt@ottawa.ca>; Carl Sciuk <c.sciuk@novatech-eng.com>
Subject: Approved ECA for ToR Ref # 5712-ACUPA5

Good Morning,

Please find attached pdf version of approved ECA. Hard copy of the ECA will be send out soon via mail.

Thank you.

Miten Shah
Application Assessment Officer

Environmental Approvals Access & Service Integration Branch,
Ministry of the Environment and Climate Change
135 St. Clair Ave. W., 2nd Floor,
Toronto, ON, Canada, M4V 1P5
Tel: (416) 212-3679 | Fax: (416) 314-8452

From: Greg MacDonald [mailto:g.Macdonald@novatech-eng.com]
Sent: September-19-16 9:50 AM
To: Shah, Miten (MOECC); Newton, Tim; Warnock, Charles
Cc: Burt, Michael; Carl Sciuk
Subject: RE: Draft ECA , ToR Ref # 5712-ACUPA5

Will be registered in future

Greg MacDonald, P. Eng.
Senior Project Manager
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240 Michael Cowpland Drive, Suite 200, Ottawa, ON, K2M 1P6 | Tel: 613.254.9643 x279 | Cell: 613.890.9705 | Fax: 613.254.5867

From: Shah, Miten (MOECC) [mailto:Miten.Shah@ontario.ca]
Sent: Monday, September 19, 2016 8:35 AM
To: Newton, Tim <Tim.Newton@ottawa.ca>; Warnock, Charles <Charles.Warnock@ottawa.ca>
Cc: Burt, Michael <Michael.Burt@ottawa.ca>; Greg MacDonald <g.Macdonald@novatech-eng.com>; Carl Sciuk <c.sciuk@novatech-eng.com>
Subject: RE: Draft ECA , ToR Ref # 5712-ACUPA5

Hi Charles/Tim,

Could you please clarify related to proposed 170 KW Generator (wording in red in draft ECA) -- "**already registered under EASR**" or **"will be registered in future"**.

Thanks
Miten

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Sent: September-19-16 8:16 AM
To: 'Newton, Tim'
Cc: Warnock, Charles; Burt, Michael; 'Greg MacDonald'; 'Carl Sciuk'
Subject: RE: Draft ECA , ToR Ref # 5712-ACUPA5

Good Morning Tim,

Thank you for your response.

Please note that this is our standard condition we use for all our pumping station ECAs and we prefer not to change standard description, to maintain consistency of approvals.

As there is no additional comment, I am going to forward this draft for the approval.

Thanks,

Miten Shah
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135 St. Clair Ave. W., 2nd Floor,
Toronto, ON, Canada, M4V 1P5
Tel: (416) 212-3679 | Fax: (416) 314-8452

From: Newton, Tim [mailto:Tim.Newton@ottawa.ca]
Sent: September-17-16 5:10 PM
To: Shah, Miten (MOECC)
Cc: Warnock, Charles; Burt, Michael; 'Greg MacDonald'; 'Carl Sciuk'
Subject: FW: Draft ECA , ToR Ref # 5712-ACUPA5

Miten

The City would prefer to see Condition 5, para (4) revised to remove *"one at the beginning of the Event and the second approximately near the end of the Event"*, so that the paragraph reads:

(4) The Owner shall use best efforts to collect a representative sample consisting of a minimum of two
(2) grab samples of the Sewage Pumping Station Overflow and have it analysed for parameters outlined
in Table 1 of Condition 7 (2) using the protocols specified in Condition 7 (3), to best reflect the effluent quality of such
Sewage Pumping Station Overflow.

Regards,
Tim Newton
Senior Engineer Infrastructure Applications (Suburban Services - West)
Planning, Infrastructure and Economic Development Department
110 Laurier Avenue West

Tel: 613-580-2424, Ext. 16023
Fax: 613-560-6006
E-mail: Tim.Newton@ottawa.ca
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To: Shah, Miten (MOECC); Newton, Tim; Warnock, Charles
Cc: Burt, Michael; Carl Sciuk
Subject: RE: Draft ECA , ToR Ref # 5712-ACUPA5
Date: September 19, 2016 9:50:12 AM

Will be registered in future

Greg MacDonald, P. Eng.
Senior Project Manager
NOVATECH Engineers, Planners & Landscape Architects
240 Michael Cowpland Drive, Suite 200, Ottawa, ON, K2M 1P6 | Tel: 613.254.9643 x279 | Cell: 613.890.9705 | Fax: 613.254.5867

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Application Assessment Officer

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Ministry of the Environment and Climate Change
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Toronto, ON, Canada, M4V 1P5
Tel: (416) 212-3679 | Fax: (416) 314-8452

Ontario

Ministry of the Environment and Climate Change
Ministère de l'Environnement et de l'Action en matière de changement climatique

COMMENT / MEMORANDUM TO FILE

Document Author:	Yue Hu
Created On:	2016/08/16
C of A:	M&P Sewage CofA
Client:	Stittsville South Inc. and 1384341 Ontario Ltd.
Project Description:	
Reference Number:	5712-ACUPA5
Subject:	Source Protection: Screened Out

Notes:

This application has been screened using the Source Protection Information and Policy Search Tool and it was determined that the activity is not considered a significant drinking water threat and no source protection policies apply.

Document Links and Comments:	Insert Comments Here
Attachment Names:	

ENVIRONMENTAL COMPLIANCE APPROVAL
NUMBER 4076-B33QM5
Issue Date: August 20, 2018

Davidson Shea Properties Inc.
237 Somerset Street West
Ottawa, Ontario
K2P 0J3

Site Location: Davidson Lands Phase 1
5993 Flewellyn Road
Part of Lot 25, Concession 9
City of Ottawa

You have applied under section 20.2 of Part II.1 of the Environmental Protection Act, R.S.O. 1990, c. E. 19 (Environmental Protection Act) for approval of:

the establishment of wastewater infrastructure Works located in the City of Ottawa, consisting of the following:

- **storm sewers, sanitary sewers, and ditches** on Eldenwylde Drive (from Station 0+080 to Station 0+610), Block 159 (from Station 0+090 to Station 0+195), Hickstead Way (from Station 0+080 to Station 0+400), Aridus Crescent (from Station 0+253 to Station 0+465), Sendero Way (from Station 0+570 to Station 0+640), Block 162 (from Station 0+085 to Station 0+200), Maygrass Way (from Station 0+095 to Station 0+620), Kayenta Street (from Station 0+095 to Station 0+530), Jardiniere Street (from Station 0+095 to Station 0+745), Block 165 (from Station 0+105 to Station 0+355), Fernbank Road (from Station 113+395 to Station 113+410, from Station 113+479 to Station 113+509, and from Station 113+567 to Station 113+582), Block 165 Ditch (from Station 0+108 to Station 0+265), and a Ditch on the Lands adjacent to Jardiniere Street (from Station 0+435, approximately 24 metres left, extending approximately 190 metres in length to connect to an existing ditch); and

the establishment of stormwater management Works to serve the Davidson Lands Phase 1 Subdivision, located in the City of Ottawa, consisting of the following;

- **one (1) wet pond** for the treatment and disposal of stormwater runoff, to provide Enhanced Level water quality protection and to attenuate post-development peak flows. The proposed wet pond is located west of Shea Road, east of the existing West Wind Development, and south of Fernbank Road. It is completed with one (1) sediment forebay, and will serve a total drainage area of 40.62 hectares (37.55 hectares residential development, 3.07 hectares pond block) and provide an enhanced level (80% TSS) protection. The total depth is 3.25 metres from pond bottom to the invert of the emergency weir. The

permanent pool volume is 9054 cubic metres at an elevation of 101.500. The extended detention volume is 6478 cubic metres at an elevation of 102.100. The total storage volume during the 100-year storm is 32654 cubic metres at an elevation of 103.174. The 100-year pond outflow is 0.605 cubic metres per second, and the 100-year pond level is 103.174 metres. The outlet ditch extending from the stormwater management pond is approximately 135 metres in length; and

- **improvements to the Faulkner Municipal Drain Tributary** (approximately 330 metres) through modification by the realigning, deepening, and vegetating of municipal drain tributary and remediation of the tributary along the west area of the new stormwater management facility;

including erosion/sedimentation control measures during construction and all other controls and appurtenances essential for the proper operation of the aforementioned Works;

all in accordance with the submitted application and supporting documents listed in Schedule "A" forming part of this Approval.

For the purpose of this environmental compliance approval, the following definitions apply:

1. "Approval" means this entire document and any schedules attached to it, and the application;

2. "Director" means a person appointed by the Minister pursuant to section 5 of the EPA for the purposes of Part II.1 of the EPA;

3. "District Manager" means the District Manager of the appropriate local District Office of the Ministry, where the Works are geographically located;

4. "EPA" means the *Environmental Protection Act,* R.S.O. 1990, c.E.19, as amended;

5. "Ministry" means the ministry of the government of Ontario responsible for the EPA and OWRA and includes all officials, employees or other persons acting on its behalf;

6. "Owner" means Davidson Shea Properties Inc., and includes its successors and assignees;

7. "OWRA" means the *Ontario Water Resources Act, R.S.O. 1990, c. O.40* , as amended;

8. "Wet Event" means a rainfall event with a minimum of 15 millimetres of rain in a 24 hour period;

9. "Works" means the sewage Works described in the Owner's application, and this Approval.

You are hereby notified that this environmental compliance approval is issued to you subject to the terms and

conditions outlined below:

TERMS AND CONDITIONS

1. GENERAL CONDITIONS

1. The Owner shall ensure that any person authorized to carry out work on or operate any aspect of the Works is notified of this Approval and the conditions herein and shall take all reasonable measures to ensure any such person complies with the same.

2. Except as otherwise provided by these Conditions, the Owner shall design, build, install, operate and maintain the Works in accordance with the description given in this Approval, and the application for approval of the Works.

3. Where there is a conflict between a provision of any document in the schedule referred to in this Approval and the conditions of this Approval, the conditions in this Approval shall take precedence, and where there is a conflict between the documents in the schedule, the document bearing the most recent date shall prevail.

4. Where there is a conflict between the documents listed in Schedule "A" and the application, the application shall take precedence unless it is clear that the purpose of the document was to amend the application.

5. The conditions of this Approval are severable. If any condition of this Approval, or the application of any requirement of this Approval to any circumstance, is held invalid or unenforceable, the application of such condition to other circumstances and the remainder of this Approval shall not be affected thereby.

2. EXPIRY OF APPROVAL

1. This Approval will cease to apply to those parts of the Works which have not been constructed within five (5) years of the date of this Approval.

2. In the event that completion and commissioning of any portion of the Works is anticipated to be delayed beyond the specified expiry period, the Owner shall submit an application of extension to the expiry period, at least twelve (12) months prior to the end of the period. The application for extension shall include the reason(s) for the delay, whether there is any design change(s) and a review of whether the standards applicable at the time of Approval of the Works are still applicable at the time of request for extension, to ensure the ongoing protection of the environment.

3. CHANGE OF OWNER

1. The Owner shall notify the District Manager and the Director, in writing, of any of the following changes within thirty (30) days of the change occurring:

a. change of Owner;

b. change of address of the Owner;

c. change of partners where the Owner is or at any time becomes a partnership, and a copy of the most recent declaration filed under the *Business Names Act,* R.S.O. 1990, c.B17 shall be included in the notification to the District Manager; or

d. change of name of the corporation where the Owner is or at any time becomes a corporation, and a copy of the most current information filed under the *Corporations Information Act,* R.S.O. 1990, c. C39 shall be included in the notification to the District Manager.

2. In the event of any change in ownership of the Works, other than a change to a successor municipality, the Owner shall notify in writing the succeeding owner of the existence of this Approval, and a copy of such notice shall be forwarded to the District Manager and the Director.

3. The Owner shall ensure that all communications made pursuant to this condition refer to the number at the top of this Approval.

4. OPERATION AND MAINTENANCE

1. If applicable, any proposed storm sewers or other stormwater conveyance in this Approval can be constructed but not operated until the proposed stormwater management facilities in this Approval or any other Approval that are designed to service the storm sewers or other stormwater conveyance are in operation.

2. The Owner shall make all necessary investigations, take all necessary steps and obtain all necessary approvals so as to ensure that the physical structure, siting and operations of the Works do not constitute a safety or health hazard to the general public.

3. The Owner shall inspect and ensure that the design minimum liquid retention volume is maintained in the Works at all times, except when maintenance is required.

4. The Owner shall undertake an inspection of the condition of the Works, at least once a year, and undertake any necessary cleaning and maintenance to ensure that sediment, debris and excessive decaying vegetation are removed from the Works to prevent the excessive build-up of sediment, oil/grit, debris and/or decaying vegetation, to avoid reduction of the capacity and/or permeability of the Works, as applicable. The Owner shall also regularly inspect and clean out the inlet to and outlet from the Works to ensure that these are not obstructed.

5. The Owner shall construct, operate and maintain the Works with the objective that the effluent from the Works is essentially free of floating and settleable solids and does not

contain oil or any other substance in amounts sufficient to create a visible film, sheen, foam or discoloration on the receiving waters.

6. The Owner shall maintain a logbook to record the results of these inspections and any cleaning and maintenance operations undertaken, and shall keep the logbook at the Owner's administrative office for inspection by the Ministry. The logbook shall include the following:

    a. the name of the Works; and

    b. the date and results of each inspection, maintenance and cleaning, including an estimate of the quantity of any materials removed and method of clean-out of the Works.

7. The Owner shall prepare an operations manual prior to the commencement of operation of the Works that includes, but is not necessarily limited to, the following information:

    a. operating and maintenance procedures for routine operation of the Works;

    b. inspection programs, including frequency of inspection, for the Works and the methods or tests employed to detect when maintenance is necessary;

    c. repair and maintenance programs, including the frequency of repair and maintenance for the Works;

    d. contingency plans and procedures for dealing with potential spills and any other abnormal situations and for notifying the District Manager; and

    e. procedures for receiving, responding and recording public complaints, including recording any follow-up actions taken.

8. The Owner shall maintain the operations manual current and retain a copy at the Owner's administrative office for the operational life of the Works. Upon request, the Owner shall make the manual available to Ministry staff.

5. TEMPORARY EROSION AND SEDIMENT CONTROL

1. The Owner shall install and maintain temporary sediment and erosion control measures during construction and conduct inspections once every two (2) weeks and after each significant storm event (a significant storm event is defined as a minimum of 25 mm of rain in any 24 hours period). The inspections and maintenance of the temporary sediment and erosion control measures shall continue until they are no longer required and at which time they shall be removed and all disturbed areas reinstated properly.

2. The Owner shall maintain records of inspections and maintenance which shall be made

available for inspection by the Ministry, upon request. The record shall include the name of the inspector, date of inspection, and the remedial measures, if any, undertaken to maintain the temporary sediment and erosion control measures.

6. MONITORING AND RECORDING

1. The Owner shall, upon commencement of operation of the Works, carry out the following monitoring program:

    a. All samples and measurements taken for the purposes of this Approval are to be taken at a time and in a location characteristic of the quality and quantity of the effluent stream over the time period being monitored.

    b. Samples shall be collected at the following sampling points, at the frequency specified, by means of the specified sample type and analyzed for each parameter listed and all results recorded, as outlined in Schedule "B".

    c. The methods and protocols for sampling, analysis and recording shall conform, in order of precedence, to the methods and protocols specified in the following:

        i. the Ministry's Procedure F-10-1, "Procedures for Sampling and Analysis Requirements for Municipal and Private Sewage Treatment Works (Liquid Waste Streams Only)", as amended from time to time by more recently published editions;

        ii. the Ministry's publication "Protocol for the Sampling and Analysis of Industrial/Municipal Wastewater" (January 1999), ISBN 0-7778-1880-9, as amended from time to time by more recently published editions; and

        iii. the publication "Standard Methods for the Examination of Water and Wastewater" (21st edition), as amended from time to time by more recently published editions.

7. REPORTING

1. One (1) week prior to the start-up of the operation of the Works, the Owner shall notify the District Manager (in writing) of the pending start-up date.

2. The Owner shall, upon request, make all reports, manuals, plans, records, data, procedures and supporting documentation available to Ministry staff.

3. The Owner shall prepare a performance report within ninety (90) days following the end of the period being reported upon, and submit the report(s) to the District Manager when requested. The first such report shall cover the first annual period following the commencement of operation of the Works and subsequent reports shall be prepared to

cover successive annual periods following thereafter. The reports shall contain, but shall not be limited to, the following information:

a. a summary and interpretation of all monitoring data and an overview of the success and adequacy of the Works, including demonstration using the monitoring data that the appropriate level of quality control has been achieved;

b. a description of any operating problems encountered and corrective actions taken;

c. a summary of all maintenance carried out on any major structure, equipment, apparatus, mechanism or thing forming part of the Works, including an estimate of the quantity of any materials removed from the Works;

d. a summary of the calibration and maintenance carried out on all monitoring equipment;

e. a summary of any complaints received during the reporting period and any steps taken to address the complaints;

f. a summary of all spill or abnormal discharge events; and

g. any other information the District Manager requires from time to time.

8. RECORD KEEPING

1. The Owner shall retain for a minimum of five (5) years from the date of their creation, all records and information related to or resulting from the operation, maintenance and monitoring activities required by this Approval.

Schedule "A"

1. Application for Environmental Compliance Approval, dated April 4, 2018, received on July 16, 2018, submitted by Davidson Shea Properties Inc.;

2. Transfer of Review Letter of Recommendation, dated July 12, 2018 and signed by Charles Warnock, P.Eng., Program Manager, Development Review Process, Suburban Services, City of Ottawa, including the following supporting documents:

   a. Final Plans and Specifications prepared by IBI Group Inc. and David Schaeffer Engineering Ltd.

   b. Pipe Data Form - Watermain, Storm Sewer, Sanitary Sewer, and Forcemain Design Supplement to Application for Approval for Waster and Sewage Works.

   c. Hydraulic Design Sheets, prepared by IBI Group Inc.

   d. Stormwater Management Report prepared by David Schaeffer Engineering Ltd.

3. Emails dated July 24, 2018 from Kevin Murphy, P.Eng., David Schaeffer Engineering Ltd., and July 30, 2018, from Ed Ireland, IBI Group.

Schedule "B"

Table 1: Effluent Monitoring

(Samples to be collected from the influent and effluent streams of the Davidson Lands Phase 1 Stormwater Management Pond)

Sample Type	Grab
Frequency	Three (3) rainfall *Wet Events* per year, with two (2) of the events occurring between May and September
Parameters	Total Suspended Solids, Phosphorus and Temperature

The reasons for the imposition of these terms and conditions are as follows:

1. Condition 1 is imposed to ensure that the Works are constructed and operated in the manner in which they were described and upon which approval was granted. This condition is also included to emphasize the precedence of conditions in the Approval and the practice that the Approval is based on the most current document, if several conflicting documents are submitted for review.

2. Condition 2 is included to ensure that, when the Works are constructed, the Works will meet the standards that apply at the time of construction to ensure the ongoing protection of the environment.

3. Condition 3 is included to ensure that the Ministry records are kept accurate and current with respect to the approved Works and to ensure that subsequent owners of the Works are made aware of the Approval and continue to operate the Works in compliance with it.

4. Condition 4 is included as regular inspection and necessary removal of sediment and excessive decaying vegetation from the Works are required to mitigate the impact of sediment, debris and/or decaying vegetation on the treatment capacity of the Works. The Condition also ensures that adequate storage is maintained in the Works at all times as required by the design. Furthermore, this Condition is included to ensure that the Works are operated and maintained to function as designed.

5. Condition 5 is included as installation, regular inspection and maintenance of the temporary sediment and erosion control measures is required to mitigate the impact on the downstream receiving watercourse during construction until they are no longer required.

6. Condition 6 is included to enable the Owner to evaluate and demonstrate the performance of the Works, on a continual basis, so that the Works are properly operated and maintained at a level which is consistent with the design objectives specified in the Approval and that the Works do not cause any impairment to the receiving watercourse or the environment.}

7. Condition 7 is included to provide a performance record for future references, to ensure that the Ministry is made aware of problems as they arise, and to provide a compliance record for all the terms and conditions outlined in this Approval, so that the Ministry can work with the Owner in resolving any problems in a timely manner.

8. Condition 8 is included to require that all records are retained for a sufficient time period to adequately evaluate the long-term operation and maintenance of the Works.

In accordance with Section 139 of the Environmental Protection Act, you may by written Notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. Section 142 of the Environmental Protection Act provides that the Notice requiring the hearing shall

state:

a. The portions of the environmental compliance approval or each term or condition in the environmental compliance approval in respect of which the hearing is required, and;
b. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

The Notice should also include:

1. The name of the appellant;
2. The address of the appellant;
3. The environmental compliance approval number;
4. The date of the environmental compliance approval;
5. The name of the Director, and;
6. The municipality or municipalities within which the project is to be engaged in.

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
655 Bay Street, Suite 1500
Toronto, Ontario
M5G 1E5

AND

The Director appointed for the purposes of
Part II.1 of the Environmental Protection Act
Ministry of the Environment,
Conservation and Parks
135 St. Clair Avenue West, 1st Floor
Toronto, Ontario
M4V 1P5

*** Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 212-6349, Fax: (416) 326-5370 or www.ert.gov.on.ca**

The above noted activity is approved under s.20.3 of Part II.1 of the Environmental Protection Act.

DATED AT TORONTO this 20th day of August, 2018

C. Labarge

Christina Labarge, P.Eng.
Director
appointed for the purposes of Part II.1 of the
Environmental Protection Act

GD/

c: District Manager, MECP Ottawa
Eric Surprenant, Program Manager, West Branch
Lance Erion, P.Eng., IBI Group
Kevin Murphy, P.Eng., David Schaeffer Engineering Ltd.
Clerk, City of Ottawa (File No. D07-16-15-0008)

Ministry of the Environment, Conservation and Parks
Client Services and Permissions Branch
1st Floor
135 St Clair Ave W
Toronto ON M4V 1P5
Fax: (416) 314-8452
Telephone: (416) 314-5825

Ministère de l'Environnement, de la Protection de la nature et des Parcs
Direction des services à la clientèle et des permissions
135 av St Clair O
Toronto ON M4V 1P5
Télécopieur : (416) 314-8452
Téléphone : (416) 314-5825

Ontario

July 27, 2018

LETTER NOT REQUIRED (TRANSFER OF REVIEW)

Dear Sir/Madam:

Re: Application for Approval of Municipal and Private Sewage Works
ToR - Storm Sewers, Sanitary Sewers, SWM Wet Pond, and Ditches in the Davidson Lands Phase 1 Subdivision
City of Ottawa
Reference Number 4302-B2RK9F

We acknowledge receipt of your application for approval dated April 5, 2018 and received on July 16, 2018 for the following:

Approval Type:	Municipal and Private Sewage Works
Project Description:	This proposal is for a new environmental compliance approval from Davidson Shea Properties Inc. for the installation of storm and sanitary sewers on Edenwylde Drive, Block 159, Hickstead Way, Aridus Crescent, Sendero Way, Block 162, Maygrass Way, Kayenta Street, Jerdiniere, Block 165, and Fernbank Road, and a SWM Wet Pond west of Shea Road in the City of Ottawa.
Site Location:	Davidson Lands Phase 1 5993 Flewellyn Road City of Ottawa

The Ministry's reference number for your application is 4302-B2RK9F. Please quote this number in any correspondence or enquiries regarding this application.

Please note that your submission has only been screened with respect to the presence of the supporting documentation normally required for this type of application, and did not include any technical analysis of the documentation, and therefore you may still be requested to provide some additional information during our detailed technical review of the application. In such a case, the Reviewer will contact you and/or your identified Project Technical Information Contact at this time.

Also, please note that a duplicate copy of the application and all supporting information should have been sent to the local District Office of the Ministry. If this has not been done, please do so as soon as possible.

Should you have any questions related to your application, please contact me at the above phone number.

Sincerely,

Gillian Davison
Environmental Assistant

c: District Manager, MOECC Ottawa
Lance Erion, IBI Group

Dynamic Completeness Assessment Tool: Version 10.1

Results

						10th	50th	90th
General	0	out of	0	=		10%	50%	90%
Air	0	out of	0	=		10%	50%	90%
Noise	0	out of	0	=		10%	50%	90%
Waste	0	out of	0	=		10%	50%	90%
Wastewater	0	out of	0	=		10%	50%	90%
TOR	**330**	**out of**	**330**	**=**	**100%**	10%	50%	90%

Please print this page and put it in the physical file.

Red: Return the application

Yellow: Flag for reviewer, request additional info and pass the file

Green: Flag for reviewer

Sign-Off

Signed by: **Gillian Davison**

[redacted]

Date: 2018-07-27

Reference #: 4302-B2RK9F

Comments:

From: Ed Ireland
To: Davison, Gillian (MECP)
Cc: Kevin Murphy; Lance Erion
Subject: RE: Final Plans for Transfer of Review Ref No. 4302-B2RK9F - Davidson Lands Subdivision SWM Pond
Date: July 30, 2018 10:04:42 AM

Good morning Gillian,

The wording should be as shown below:

"a Ditch on lands adjacent to Jardiniere Street (from Station 0+435 24m left, extending 190m in length to connect to an existing ditch)"

In surveying we use a road centerline station and then a left or right offset from the road centerline to describe a point. In this case the start of the ditch is located at station 0+435 and 24m left of the road centerline as you look up station (in the direction of increasing stationing)

From: Kevin Murphy [mailto:KMurphy@dsel.ca]
Sent: Monday, July 30, 2018 9:30 AM
To: Lance Erion <lerion@IBIGroup.com>; Ed Ireland <ed.ireland@IBIGroup.com>
Cc: Davison, Gillian (MECP) <Gillian.Davison2@ontario.ca>
Subject: FW: Final Plans for Transfer of Review Ref No. 4302-B2RK9F - Davidson Lands Subdivision SWM Pond

Thank you for the inquiry Gillian.

The application is a joint effort between my office and IBI Group for this particular development. Your query is related to work associated with IBI's design.

Lance/Ed: Could you please assist Gillian with her question below?

Much appreciated.

Kevin

DSEL
david schaeffer engineering ltd.
phone: (613) 836-0856 ext.563
cell: (613) 324-8361
email: kmurphy@DSEL.ca

th th

Vacation Alert: Please note that I will be away on vacation from August 7 to August 10 .

From: Davison, Gillian (MECP) [mailto:Gillian.Davison2@ontario.ca]
Sent: Monday, July 30, 2018 9:27 AM
To: Kevin Murphy <KMurphy@dsel.ca>
Subject: RE: Final Plans for Transfer of Review Ref No. 4302-B2RK9F - Davidson Lands Subdivision SWM Pond

Good morning Kevin,

I am currently reviewing your application and preparing the draft ECA. I have a question to clarify some of the wording of the proposed works included in your submitted Draft.

For the last sentence of the paragraph describing the proposed sanitary sewers, storm sewers, and ditches, '***and on Lands adjacent to Jardiniere Street a Ditch from Station 0+435 24m extending 190m in length to tie to existing ditch'***, do you mean: 'a Ditch on lands adjacent to Jardiniere Street (from Station 0+435, 24m deep, extending 190m in length to connect to an existing ditch)'?

Thanks in advance for the clarification,

Gillian

From: Kevin Murphy [mailto:KMurphy@dsel.ca]
Sent: July 27, 2018 9:39 AM
To: Davison, Gillian (MECP)
Subject: RE: Final Plans for Transfer of Review Ref No. 4302-B2RK9F - Davidson Lands Subdivision SWM Pond

Great Gillian!

Thank you for the confirmation.

Can you also let me and Lance know when you have completed your review of the package and it has been moved on to the next step (person) in the process?

Much appreciated.

Kevin

DSEL
david schaeffer engineering ltd.
phone: (613) 836-0856 ext.563
cell: (613) 324-8361
email: kmurphy@DSEL.ca

Vacation Alert: Please note that I will be away on vacation from August 7th to August 10th.

From: Davison, Gillian (MECP) [mailto:Gillian.Davison2@ontario.ca]
Sent: Friday, July 27, 2018 9:30 AM
To: Kevin Murphy <KMurphy@dsel.ca>
Subject: RE: Final Plans for Transfer of Review Ref No. 4302-B2RK9F - Davidson Lands Subdivision SWM Pond

Hi Kevin,

I have received the updated plans.
Thanks very much,

Gillian

From: Kevin Murphy [mailto:KMurphy@dsel.ca]
Sent: July 26, 2018 1:48 PM
To: Davison, Gillian (MECP)
Subject: RE: Final Plans for Transfer of Review Ref No. 4302-B2RK9F - Davidson Lands Subdivision SWM Pond

Hi Gillian,

The courier says the drawings were delivered to your mail room earlier today.
I don't know how long it will take for them to work their way to wherever you are in the building.

Kevin

DSEL
david schaeffer engineering ltd.
phone: (613) 836-0856 ext.563
cell: (613) 324-8361
email: kmurphy@DSEL.ca
Vacation Alert: Please note that I will be away on vacation from August 7th to August 10th.

From: Davison, Gillian (MECP) [mailto:Gillian.Davison2@ontario.ca]
Sent: Wednesday, July 25, 2018 2:14 PM
To: Kevin Murphy <KMurphy@dsel.ca>
Subject: RE: Final Plans for Transfer of Review Ref No. 4302-B2RK9F - Davidson Lands Subdivision SWM Pond

Hi Kevin,

Thanks for the update.

I will confirm with you when they have been received.

Gillian

From: Kevin Murphy [mailto:KMurphy@dsel.ca]
Sent: July 25, 2018 2:05 PM
To: Davison, Gillian (MECP)
Subject: RE: Final Plans for Transfer of Review Ref No. 4302-B2RK9F - Davidson Lands Subdivision SWM Pond

Hi Gillian,

Just providing you with an update.
The courier was delayed in picking up the updated drawings and didn't get them until the morning.
You should have them in your building Thursday morning sometime.

Thanks,

Kevin

DSEL
david schaeffer engineering ltd.
phone: (613) 836-0856 ext.563
cell: (613) 324-8361
email: kmurphy@DSEL.ca

From: Davison, Gillian (MECP) [mailto:Gillian.Davison2@ontario.ca]
Sent: Tuesday, July 24, 2018 11:41 AM
To: Kevin Murphy <KMurphy@dsel.ca>
Subject: RE: Final Plans for Transfer of Review Ref No. 4302-B2RK9F - Davidson Lands Subdivision SWM Pond

Thanks very much, Kevin.

Best,

Gillian

From: Kevin Murphy [mailto:KMurphy@dsel.ca]
Sent: July 24, 2018 11:40 AM
To: Davison, Gillian (MECP)
Cc: lerion@ibigroup.com
Subject: RE: Final Plans for Transfer of Review Ref No. 4302-B2RK9F - Davidson Lands Subdivision SWM Pond

Thank you for following up Gillian.

I will have a new set of plans couriered to your attention with the 'Not For Construction' annotation removed.

My apologies for the oversight.

Kevin

DSEL
david schaeffer engineering ltd.
phone: (613) 836-0856 ext.563
cell: (613) 324-8361
email: kmurphy@DSEL.ca

From: Davison, Gillian (MECP) [mailto:Gillian.Davison2@ontario.ca]
Sent: Tuesday, July 24, 2018 11:37 AM
To: lerion@ibigroup.com; Kevin Murphy <KMurphy@dsel.ca>
Subject: Final Plans for Transfer of Review Ref No. 4302-B2RK9F - Davidson Lands Subdivision SWM Pond

Good morning,

I have received your Transfer of Review application for storm and sanitary sewers and a Stormwater Management Pond to serve the Davidson Lands Subdivision. Although you have submitted final plans for the storm and sanitary sewers, the other set of plans that were submitted for the SWM Pond were labelled as 'Not For Construction'.

Unfortunately, we do require final plans for the application and do not accept 'Not For Construction' plans. Could you please re-submit to our office (135 St. Clair West Application Assessment Unit) a set of final plans for the Davidson Lands SWM Pond **only**.

-
Thank you very much,

Gillian Davison
Environmental Assistant, Application Assessment Unit
Client Services and Permissions Branch
Ministry of the Environment, Conservation and Parks (MECP)
135 St. Clair Avenue West, 2nd Floor | Toronto ON, M4V 1P5
☎ (416)-314-5825

Ontario

Ministry of the Environment, Conservation and Parks
Ministère de l'Environnement, de la Protection de la nature et des Parcs

COMMENT / MEMORANDUM TO FILE

Document Author:	Gillian Davison
Created On:	2018/07/24
C of A:	M&P Sewage CofA
Client:	Davidson Shea Properties Inc.
Project Description:	
Reference Number:	4302-B2RK9F
Subject:	Source Protection Screened Out

Notes:

General | Property Description | Business & Operational History | Closure Status | Source Protection

Source Protection

Source Protection Area Name	Latitude	Longitude	UTM Zone	Easting	Northing
Rideau Valley	45.25131	-75.90053	18	429335.82	5011263

Intake Protection Zones(s):	No
Wellhead Protection Area (WHPA) zone(s):	No
Groundwater Under Direct Influence of surface water (GUDI)/WHPA-E:	No
Issues Contributing Areas (ICA):	No
Significant Groundwater Recharge Area:	No
Highly Vulnerable Aquifer:	Yes Score: 6
Event Based Areas (EBAs):	No
Quantity Protection Zone (WHPA Q1):	No
SWPIA source water data version:	March, 2018

Primary Screening

Has the location or address for this site been confirmed in the Source Water Protection Information Atlas (SWPIA)?	Yes
Date Confirmed:	2018/07/24
Confirmed By:	Gillian Davison
* Is this screening associated with a new or increased PTTW (i.e. excludes renewals) at this site?	☐ Yes ☐ No

	Water Quality	Water Quantity
Does this site have the potential for a significant drinking water threat?	No	No
Does this site have the potential for a moderate or low drinking water threat?	No	No

Secondary Screening is not required.

Document Links and Comments:	Insert Comments Here
Attachment Names:	

From: Nicole Soucy
To: Baxter, Sarah (MOECC)
Cc: Andrius Paznekas; pdufresne@tartanland.on.ca
Subject: RE: Letters of Permission
Date: January 4, 2018 8:34:32 AM
Attachments: image001.png
63900.04_Letters of Concent.pdf

Sarah,

Please find the letters of permission in the attached document.

Thanks,

Nicole

Nicole Soucy, B.A.Sc., M.A.Sc.
Junior Environmental Scientist
Ottawa, ON
tel: 613.836.1422 x265 / toll-free: 1.877.243.6832
mobile: 613.929.5630 / fax: 613.836.9731

---------- Forwarded message ----------
From: "Baxter, Sarah (MOECC)" <Sarah.Baxter@ontario.ca>
Date: Jan 4, 2018 8:25 AM
Subject: Letters of Permission
To: Andrius Paznekas <andrius.paznekas@gemtec.ca>
Cc: pdufresne@tartanland.on.ca

> Hi Andrius,
>
> I'm processing the PTTW application for Stittsville South, Area 6.
>
> I noticed that the two letters of permission required were not submitted. Can you please forward these along?
>
> Also – a draft of this Permit cannot be provided and later issued to a contractor. This is a method only available to the Ministry of Transportation and the City of Ottawa under specific Memorandums of Understanding. The final PTTW will be issued to Davidson Shea Properties Inc.
>
> *Sarah Baxter*

Environmental Scientist
Ministry of the Environment and Climate Change
(613) 548 - 6903
Sarah.Baxter@ontario.ca

Hi Andrius,

I'm processing the PTTW application for Stittsville South, Area 6.

I noticed that the two letters of permission required were not submitted. Can you please forward these along?

Also – a draft of this Permit cannot be provided and later issued to a contractor. This is a method only available to the Ministry of Transportation and the City of Ottawa under specific Memorandums of Understanding. The final PTTW will be issued to Davidson Shea Properties Inc.

Sarah Baxter
Environmental Scientist
Ministry of the Environment and Climate Change
(613) 548 - 6903
Sarah.Baxter@ontario.ca

Ontario

Ministry of the Environment and Climate Change
Ministère de l'Environnement et de l'Action en matière de changement climatique

PERMIT TO TAKE WATER

Surface and Ground Water
NUMBER 2630-AUPJNY

Pursuant to Section 34.1 of the Ontario Water Resources Act, R.S.O. 1990 this Permit To Take Water is hereby issued to:

Davidson Shea Properties Inc.
237 Somerset St W
Ottawa, Ontario, K2P 0J3
Canada

For the water taking from: Excavation Trenches & Stormwater Management Pond

Located at: 5960 & 5970 Fernbank Rd
Ottawa

5993 Flewellyn Rd
Ottawa

For the purposes of this Permit, and the terms and conditions specified below, the following definitions apply:

DEFINITIONS

(a) "Director" means any person appointed in writing as a Director pursuant to section 5 of the OWRA for the purposes of section 34.1, OWRA.

(b) "Provincial Officer" means any person designated in writing by the Minister as a Provincial Officer pursuant to section 5 of the OWRA.

(c) "Ministry" means Ontario Ministry of the Environment and Climate Change.

(d) "District Office" means the Ottawa District Office.

(e) "Permit" means this Permit to Take Water No. 2630-AUPJNY including its Schedules, if any, issued in accordance with Section 34.1 of the OWRA.

(f) "Permit Holder" means Davidson Shea Properties Inc..

(g) "OWRA " means the *Ontario Water Resources Act,* R.S.O. 1990, c. O. 40, as amended.

You are hereby notified that this Permit is issued subject to the terms and conditions outlined below:

TERMS AND CONDITIONS

1. Compliance with Permit

1.1 Except where modified by this Permit, the water taking shall be in accordance with the application for this Permit To Take Water, dated December 6, 2017 and signed by R. Douglas Lazier, and all Schedules included in this Permit.

1.2 The Permit Holder shall ensure that any person authorized by the Permit Holder to take water under this Permit is provided with a copy of this Permit and shall take all reasonable measures to ensure that any such person complies with the conditions of this Permit.

1.3 Any person authorized by the Permit Holder to take water under this Permit shall comply with the conditions of this Permit.

1.4 This Permit is not transferable to another person.

1.5 This Permit provides the Permit Holder with permission to take water in accordance with the conditions of this Permit, up to the date of the expiry of this Permit. This Permit does not constitute a legal right, vested or otherwise, to a water allocation, and the issuance of this Permit does not guarantee that, upon its expiry, it will be renewed.

1.6 The Permit Holder shall keep this Permit available at all times at or near the site of the taking, and shall produce this Permit immediately for inspection by a Provincial Officer upon his or her request.

1.7 The Permit Holder shall report any changes of address to the Director within thirty days of any such change. The Permit Holder shall report any change of ownership of the property for which this Permit is issued within thirty days of any such change. A change in ownership in the property shall cause this Permit to be cancelled.

2. General Conditions and Interpretation

2.1 Inspections

The Permit Holder must forthwith, upon presentation of credentials, permit a Provincial Officer to carry out any and all inspections authorized by the OWRA, the *Environmental Protection Act* , R.S.O. 1990, the *Pesticides Act* , R.S.O. 1990, or the *Safe Drinking Water Act,* S. O. 2002.

2.2 Other Approvals

The issuance of, and compliance with this Permit, does not:

(a) relieve the Permit Holder or any other person from any obligation to comply with any other applicable legal requirements, including the provisions of the *Ontario Water Resources Act* , and the *Environmental Protection Act* , and any regulations made thereunder; or

(b) limit in any way any authority of the Ministry, a Director, or a Provincial Officer, including the authority to require certain steps be taken or to require the Permit Holder to furnish any further information related to this Permit.

2.3 Information

The receipt of any information by the Ministry, the failure of the Ministry to take any action or require any person to take any action in relation to the information, or the failure of a Provincial Officer to prosecute any person in relation to the information, shall not be construed as:

(a) an approval, waiver or justification by the Ministry of any act or omission of any person that contravenes this Permit or other legal requirement; or

(b) acceptance by the Ministry of the information's completeness or accuracy.

2.4 Rights of Action

The issuance of, and compliance with this Permit shall not be construed as precluding or limiting any legal claims or rights of action that any person, including the Crown in right of Ontario or any agency thereof, has or may have against the Permit Holder, its officers, employees, agents, and contractors.

2.5 Severability

The requirements of this Permit are severable. If any requirements of this Permit, or the application of any requirements of this Permit to any circumstance, is held invalid or unenforceable, the application of such requirements to other circumstances and the remainder of this Permit shall not be affected thereby.

2.6 Conflicts

Where there is a conflict between a provision of any submitted document referred to in this Permit, including its Schedules, and the conditions of this Permit, the conditions in this Permit shall take precedence.

3. Water Takings Authorized by This Permit

3.1 **Expiry**

This Permit expires on **January 31, 2025**. No water shall be taken under authority of this Permit after the expiry date.

3.2 Amounts of Taking Permitted

The Permit Holder shall only take water from the source, during the periods and at the rates and amounts of taking specified in Table A. Water takings are authorized only for the purposes specified in Table A.

Table A

	Source Name / Description:	Source: Type:	Taking Specific Purpose:	Taking Major Category:	Max. Taken per Minute (litres):	Max. Num. of Hrs Taken per Day:	Max. Taken per Day (litres):	Max. Num. of Days Taken per Year:	Zone/ Easting/ Northing:
1	Excavation Trenches	Pond Dugout	Construction	Dewatering Construction	20,531	24	9,855,000	365	18 429532 5011532
2	Stormwater Management Pond Excavation	Pond Dugout	Construction	Dewatering Construction	13,825	24	6,636,000	365	18 429852 5010779
						Total Taking:	16,491,000		

4. Monitoring

4.1 The Permit Holder shall maintain a record of all water takings. This record shall include the dates and times of water takings, the rates of taking and an estimated calculation of the total amounts of water taken per day for each day that water is taken under the authorization of this Permit. A separate record shall be maintained for each source. The Permit Holder shall keep all required records up to date and available at or near the site of the taking and shall produce the records immediately for inspection by a Provincial Officer upon his or her request.

4.2 The Permit Holder shall install a bedrock groundwater monitoring well within 25 metres of the residential properties along Flewellyn Road on the southern portion of their property as shown on Figure 1 of the report entitled "Category 3 Permit to Take Water, Area 6, Stittsville South, Ottawa, Ontario" completed by Houle Chevrier Engineering and attached to this Permit as Schedule A. The groundwater monitoring well characteristics shall be determined by a qualified Professional Geoscientist or qualified Professional Engineer and the well shall be drilled to an elevation of approximately 93 metres above sea level.

4.3 The Permit Holder shall also install a bedrock groundwater monitoring well in the northwestern corner of their property as shown on Figure 1 of Schedule A of this Permit. The groundwater monitoring well characteristics shall be determined by a qualified Professional Geoscientist or qualified Professional Engineer and the well shall be drilled to an elevation of approximately 93 metres above sea level.

4.4 The Permit Holder shall ensure that a minimum of three (3) daily groundwater level measurements are undertaken at both groundwater monitoring wells prior to any water taking authorized by this Permit. During water taking activities, the Permit Holder shall ensure that groundwater levels are measured daily for the first three (3) days of the taking and on a weekly basis thereafter. After water taking activities have stopped, groundwater levels shall be measured on a weekly basis until groundwater levels have reached at least 90 percent recovery. All groundwater level measurements shall be undertaken by an appropriately trained person and measurements shall be recorded in a log book. The Permit Holder shall keep all required records up to date and available at or near the site of the taking and shall produce the records immediately for inspection by a Provincial Officer upon his or her request.

4.5 Groundwater monitoring data collected under Condition 4.4 shall be reviewed by a qualified Professional Geoscientist or a qualified Professional Engineer on a monthly basis (minimum) during water taking activities. If this review identifies the potential for interference with area domestic water supply well(s) and / or if the groundwater level has decreased at either monitoring well by greater than two (2) metres below the initial groundwater level prior to the water taking, then the Permit Holder shall undertake the contingency plan presented in Section 7.4 of the report entitled "Category 3 Permit to Take Water, Area 6, Stittsville South, Ottawa, Ontario" completed by Houle Chevrier Engineering and attached to this Permit as Schedule A.

5. Impacts of the Water Taking

5.1 Notification

The Permit Holder shall immediately notify the local District Office of any complaint arising from the taking of water authorized under this Permit and shall report any action which has been taken or is proposed with regard to such complaint. The Permit Holder shall immediately notify the local District Office if the taking of water is observed to have any significant impact on the surrounding waters. After hours, calls shall be directed to the Ministry's Spills Action Centre at 1-800-268-6060.

5.2 For Surface-Water Takings

The taking of water (including the taking of water into storage and the subsequent or simultaneous withdrawal from storage) shall be carried out in such a manner that streamflow is not stopped and is not reduced to a rate that will cause interference with downstream uses of water or with the natural functions of the stream.

For Groundwater Takings

If the taking of water is observed to cause any negative impact to other water supplies obtained from any adequate sources that were in use prior to initial issuance of a Permit for this water taking, the Permit Holder shall take such action necessary to make available to those affected, a supply of water equivalent in quantity and quality to their normal takings, or shall compensate such persons for their reasonable costs of so doing, or shall reduce the rate and amount of taking to prevent or alleviate the observed negative impact. Pending permanent restoration of the affected supplies, the Permit Holder shall provide, to those affected, temporary water supplies adequate to meet their normal requirements, or shall compensate such persons for their reasonable costs of doing so.

If permanent interference is caused by the water taking, the Permit Holder shall restore the water supplies of those permanently affected.

5.3 Prevention of Adverse Effects:

The Permit Holder shall ensure the taking of water under authority of this Permit does not result in an adverse effect on area waters.

5.4 Prevention of Structural Adverse Effects:

The Permit Holder shall take all measures necessary to prevent damage to buildings, bridges, structures, roads and/or railway lines that may be impacted either directly or indirectly by this taking.

5.5 The Permit Holder shall ensure that no water is discharged to the Stormwater Management Pond, except in accordance with an Environmental Compliance Approval, issued by this Ministry.

5.6 The Permit Holder shall ensure all water pumped from the excavation is directed to a sump or similar sediment control feature. Straw bales or silt fencing shall be installed around the discharge site to prevent sediment laden water from entering the watercourse. Discharge from the sediment control features shall be to a well vegetated area, as far as possible from any surface water course, to promote infiltration prior to re-entering any watercourse.

5.7 Sediment control features shall be sufficient to control the volumes and shall be maintained for the full duration of the discharge.

5.8 The discharge of water shall be controlled in such a way as to avoid erosion and sedimentation in the receiving stream.

5.9 The Permit Holder shall ensure that any water discharged to the natural environment does not result in scouring, erosion or physical alteration of stream channels or banks and that there is no flooding in the receiving area or water body, downstream water bodies, ditches or properties caused or worsened by this discharge.

5.10 The Permit Holder shall not discharge turbid water to any watercourse. Turbid water shall be defined as any discharge water from the excavation or diverted water with a maximum increase of 8 NTUs above the receiving stream's background levels.

6. Director May Amend Permit

The Director may amend this Permit by letter requiring the Permit Holder to suspend or reduce the taking to an amount or threshold specified by the Director in the letter. The suspension or reduction in taking shall be effective immediately and may be revoked at any time upon notification by the Director. This condition does not affect your right to appeal the suspension or reduction in taking to the Environmental Review Tribunal under the *Ontario Water Resources Act* , Section 100 (4).

The reasons for the imposition of these terms and conditions are as follows:

1. Condition 1 is included to ensure that the conditions in this Permit are complied with and can be enforced.

2. Condition 2 is included to clarify the legal interpretation of aspects of this Permit.

3. Conditions 3 through 6 are included to protect the quality of the natural environment so as to safeguard the ecosystem and human health and foster efficient use and conservation of waters. These conditions allow for the beneficial use of waters while ensuring the fair sharing, conservation and sustainable use of the waters of Ontario. The conditions also specify the water takings that are authorized by this Permit and the scope of this Permit.

In accordance with Section 100 of the Ontario Water Resources Act, R.S.O. 1990, you may by written notice served upon me, the Environmental Review Tribunal and the Environmental Commissioner, ***Environmental Bill of Rights****, R.S.O. 1993, Chapter 28, within 15 days after receipt of this Notice, require a hearing by the Tribunal. The Environmental Commissioner will place notice of your appeal on the Environmental Registry. Section 101 of the Ontario Water Resources Act, as amended provides that the Notice requiring a hearing shall state:*

1. The portions of the Permit or each term or condition in the Permit in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

In addition to these legal requirements, the Notice should also include:

a. The name of the appellant;
b. The address of the appellant;
c. The Permit to Take Water number;
d. The date of the Permit to Take Water;
e. The name of the Director;
f. The municipality within which the works are located;

This notice must be served upon:

The Secretary
Environmental Review Tribunal
655 Bay Street, 15th Floor
Toronto ON
M5G 1E5
Fax: (416) 326-5370
Email:
ERTTribunalsecretary@ontario.ca

AND

The Environmental Commissioner
1075 Bay Street
6th Floor, Suite 605
Toronto, Ontario M5S 2W5

AND

The Director, Section 34.1,
Ministry of the Environment and Climate Change
1259 Gardiners Rd, PO Box 22032
Kingston, ON
K7P 3J6

Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal:

by Telephone at	by Fax at	by e-mail at
(416) 212-6349	(416) 326-5370	www.ert.gov.on.ca
Toll Free 1(866) 448-2248	Toll Free 1(844) 213-3474	

This instrument is subject to Section 38 of the ***Environmental Bill of Rights*** *that allows residents of Ontario to seek leave to appeal the decision on this instrument. Residents of Ontario may seek to appeal for 15 days from the date this decision is placed on the Environmental Registry. By accessing the Environmental Registry, you can determine when the leave to appeal period ends.*

Dated at Kingston this 29th day of January, 2018.

Peter Taylor
Director, Section 34.1
Ontario Water Resources Act , R.S.O. 1990

Schedule A

This Schedule "A" forms part of Permit To Take Water 2630-AUPJNY, dated January 29, 2018.

- Figure 1 of the report entitled "Category 3 Permit to Take Water, Area 6, Stittsville South, Ottawa, Ontario" completed by Houle Chevrier Engineering

- Section 7.4 of the report entitled "Category 3 Permit to Take Water, Area 6, Stittsville South, Ottawa, Ontario" completed by Houle Chevrier Engineering

From: Pierre Dufresne
To: Greenberg, Jonathan (MOECC); Andrius Paznekas
Cc: Nicole Soucy
Subject: RE: Ack Letter for PTTW Ref #7656-ATQS6Y - 5960 and 5970 Fernbank Road and 5993 Flewellyn Road
Date: December 6, 2017 10:42:22 AM
Attachments: image001.jpg

Hi Jonathon,

If it is easier you can also just credit the card number used for the fee. If you are going the cheque route please note that the address is incorrect and we have moved to 237 Somerset West, Ottawa, On., K2P 0J3.

thanks

Pierre Dufresne
Vice-President, Land Development

From: Greenberg, Jonathan (MOECC) [mailto:Jonathan.Greenberg@ontario.ca]
Sent: December-06-17 9:32 AM
To: Andrius Paznekas <andrius.paznekas@gemtec.ca>; Pierre Dufresne <pdufresne@tartanland.on.ca>
Cc: Nicole Soucy <nicole.soucy@gemtec.ca>
Subject: RE: Ack Letter for PTTW Ref #7656-ATQS6Y - 5960 and 5970 Fernbank Road and 5993 Flewellyn Road

Hi Andrius,

I looked into the refund for reference # 3636-ANLPTL and it does appear that this refund was not processed. The refund from reference # 3636-ANLPTL has not been submitted for processing and a cheque will be mailed to:

Tartan Crestway Developments Inc.
400-331 Cooper St, Ottawa, Ontario, Canada, K2P 0G5

My apologies for the delay in receiving the refund, please feel free to contact me should you have any questions or concerns.

Thanks,
Jon Greenberg
Application Assessment Officer|Application Assessment Unit
Environmental Assessment and Permissions Division
Ministry of the Environment and Climate Change
135 St. Clair Ave. West, 2nd Floor|Toronto, Ontario M4V 1P5
Email: jonathan.greenberg@ontario.ca
Phone: 416-314-5829

From: Andrius Paznekas [mailto:andrius.paznekas@gemtec.ca]
Sent: December-05-17 4:34 PM
To: Greenberg, Jonathan (MOECC); pdufresne@tartanland.on.ca
Cc: Nicole Soucy
Subject: Re: Ack Letter for PTTW Ref #7656-ATQS6Y - 5960 and 5970 Fernbank Road and 5993 Flewellyn Road

Good afternoon Jonathan,

This PTTW application was previously submitted (June 23, 2017 - reference 3636-ANLPTL) and the $3000 application fee was paid. Due to changes in the Permit, the MOECC requested that we resubmit the PTTW application package.

Upon re-submitting it came to my attention that the previous $3,000 fee was not refunded. As such, can the current $3,000 charge be refunded?

Thanks,
Andrius

Andrius Paznekas, M.Sc.
Environmental Scientist
Ottawa, ON
tel: 613.836.1422 x237 / toll-free: 1.877.243.6832
mobile: 613.295.8425 / fax: 613.836.9731

From: Greenberg, Jonathan (MOECC) <Jonathan.Greenberg@ontario.ca>
Sent: December 5, 2017 3:56:22 PM
To: pdufresne@tartanland.on.ca
Cc: Andrius Paznekas
Subject: Ack Letter for PTTW Ref #7656-ATQS6Y - 5960 and 5970 Fernbank Road and 5993 Flewellyn Road

Good Afternoon Pierre,

Please find our letter of acknowledgement for the above referenced file attached. The additional action required at this time is outlined on the attached letter. I have also attached a copy of the credit card receipt for your records.

Please feel free to contact me should you have any questions or concerns.

Sincerely,

Jon Greenberg
Application Assessment Officer|Application Assessment Unit
Environmental Assessment and Permissions Division
Ministry of the Environment and Climate Change
135 St. Clair Ave. West, 2nd Floor|Toronto, Ontario M4V 1P5
Email: jonathan.greenberg@ontario.ca
Phone: 416-314-5829

From: Andrius Paznekas
To: Greenberg, Jonathan (MOECC)
Cc: Nicole Soucy; pdufresne@tartanland.on.ca
Subject: Re: Ack Letter for PTTW Ref #7656-ATQS6Y - 5960 and 5970 Fernbank Road and 5993 Flewellyn Road
Date: December 6, 2017 11:36:40 AM

Hello Jonathan,

Please see the responses to the additional action items described in the acknowledgement letter:

- NAICS code for the applicant is 236117 (New housing for-sale builders)
- Applicants name for the PTTW to be issued to: Davidson Lands Co-tenancy (business identification number 001597642)
- An updated signature page signed by an officer or director of the company will be forwarded to you.

Please let me know if you require any further information.

Thank you,
Andrius

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Environmental Assessment and Permissions Division
Ministry of the Environment and Climate Change
135 St. Clair Ave. West, 2nd Floor|Toronto, Ontario M4V 1P5
Email: jonathan.greenberg@ontario.ca
Phone: 416-314-5829

10. Attachments

The following must be attached for all applications (Category 1, 2 and 3) to be complete:

☒ Map Requirements
On a 1:10 000 OBM (Ontario Base Map) (1:50 000 only acceptable in locations where 1:10 000 is not obtainable), mark and label:
- all existing and proposed water taking locations with sources corresponding with source name
- all of the following features within 500m of each source: existing wells (indicate use of existing well, springs, watercourses, wetlands, water bodies, property lines, locations and name of property owners, nearest road intersection, dwellings.

☒ Describe **in detail** how, where and when all water is obtained, stored, transferred, used and returned to the environment (if applicable). Details must include the source of all water takings (and corresponding source name if applicable), purpose of the water taking, period of water taking, and maximum quantity requested (see Guide for further instruction).
Note: If your application is subject to posting on the Environmental Bill of Rights (EBR) Registry, this description will be used to create the Proposal Notice. The ministry may change the wording as required, to meet the EBR posting requirements.

☒ Describe how water taking needs (rates, amounts and time periods) were determined. Provide all relevant information and calculations to demonstrate the water takings requested are warranted. Calculation worksheets are available. Refer to Appendix E of the Guide.

☒ Attach completed water conservation Schedule 1.

The following must be attached for all Category 2 applications:

☐ Completed Schedule 2 and/or Schedule 3 signed by a Qualified Person.

The following must be attached for all Category 3 applications:

☒ Study Hydrogeological Investigation included in PTTW application package

11. Statement/Signature of Applicant

I, the undersigned, hereby declare that to the best of my knowledge:

- The information contained herein and the information submitted in support of this application is complete and accurate in every way and I am aware of the penalties against providing false information.
- The Project Technical Information Contact identified in Section 6 if this form is authorized to act on my behalf for the purpose of obtaining this approval.

Print Name	Signature	Date (yyyy/mm/dd)
R. DOUGLAS LAZIER	R Douglas Lazier	2017/12/06

From:	Pierre Dufresne
To:	Greenberg, Jonathan (MOECC); Andrius Paznekas
Cc:	Nicole Soucy
Subject:	RE: Ack Letter for PTTW Ref #7656-ATQS6Y - 5960 and 5970 Fernbank Road and 5993 Flewellyn Road
Date:	December 6, 2017 2:47:26 PM
Attachments:	image001.jpg SKM_C284e17120614450.pdf

That is correct Jonathon, 237 Somerset is where we are. Also, please find attached a revised signing page to the application with an authorized signature.

Thanks,

Pierre Dufresne
Vice-President, Land Development

From: Greenberg, Jonathan (MOECC) [mailto:Jonathan.Greenberg@ontario.ca]
Sent: December-06-17 2:09 PM
To: Pierre Dufresne <pdufresne@tartanland.on.ca>; Andrius Paznekas <andrius.paznekas@gemtec.ca>
Cc: Nicole Soucy <nicole.soucy@gemtec.ca>
Subject: RE: Ack Letter for PTTW Ref #7656-ATQS6Y - 5960 and 5970 Fernbank Road and 5993 Flewellyn Road

Hi Pierre,

Unfortunately we are unable to issue refunds back onto credit cards. I will update the address for sending the refund cheque.

Also, I noticed that the PTTW application form lists the applicant address as 23B Somerset West. Should I assume this is a typo and that the correct address for the current application should match the below address of 237 Somerset West, Ottawa? Please advise, thanks.

Sincerely,

Jon Greenberg
Application Assessment Officer|Application Assessment Unit
Environmental Assessment and Permissions Division
Ministry of the Environment and Climate Change
135 St. Clair Ave. West, 2nd Floor|Toronto, Ontario M4V 1P5
Email: jonathan.greenberg@ontario.ca
Phone: 416-314-5829

From: Pierre Dufresne [mailto:pdufresne@tartanland.on.ca]
Sent: December-06-17 10:42 AM
To: Greenberg, Jonathan (MOECC); Andrius Paznekas
Cc: Nicole Soucy
Subject: RE: Ack Letter for PTTW Ref #7656-ATQS6Y - 5960 and 5970 Fernbank Road and 5993 Flewellyn Road

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Vice-President, Land Development

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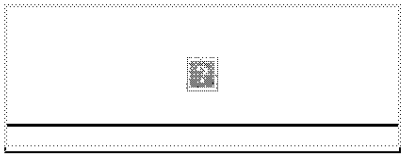
Upon re-submitting it came to my attention that the previous $3,000 fee was not refunded. As such, can the current $3,000 charge be refunded?

Thanks,
Andrius



Andrius Paznekas, M.Sc.
Environmental Scientist
Ottawa, ON
tel: 613.836.1422 x237 / toll-free: 1.877.243.6832
mobile: 613.295.8425 / fax: 613.836.9731

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Sent: December 5, 2017 3:56:22 PM
To: pdufresne@tartanland.on.ca
Cc: Andrius Paznekas
Subject: Ack Letter for PTTW Ref #7656-ATQS6Y - 5960 and 5970 Fernbank Road and 5993 Flewellyn Road

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To: "Andrius Paznekas"
Cc: Nicole Soucy; pdufresne@tartanland.on.ca
Subject: RE: Ack Letter for PTTW Ref #7656-ATQS6Y - 5960 and 5970 Fernbank Road and 5993 Flewellyn Road
Date: December 6, 2017 3:06:00 PM
Attachments: image001.jpg

Hi Andrius,

I have not been able to find information on the business name "Davidson Lands Co-tenancy" in our system. Can you please provide documentation showing proof of legal name for this. Acceptable proof of legal name includes documents such as Articles of Incorporation, a Master Business license, Corporate Profile Report, etc.

Thanks,

Jon Greenberg
Application Assessment Officer|Application Assessment Unit
Environmental Assessment and Permissions Division
Ministry of the Environment and Climate Change
135 St. Clair Ave. West, 2nd Floor|Toronto, Ontario M4V 1P5
Email: jonathan.greenberg@ontario.ca
Phone: 416-314-5829

From: Andrius Paznekas [mailto:andrius.paznekas@gemtec.ca]
Sent: December-06-17 11:36 AM
To: Greenberg, Jonathan (MOECC)
Cc: Nicole Soucy; pdufresne@tartanland.on.ca
Subject: Re: Ack Letter for PTTW Ref #7656-ATQS6Y - 5960 and 5970 Fernbank Road and 5993 Flewellyn Road

Hello Jonathan,

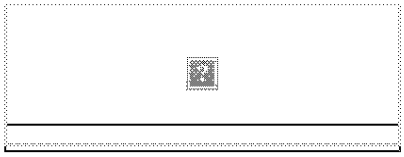
Please see the responses to the additional action items described in the acknowledgement letter:

- NAICS code for the applicant is 236117 (New housing for-sale builders)
- Applicants name for the PTTW to be issued to: Davidson Lands Co-tenancy (business identification number 001597642)
- An updated signature page signed by an officer or director of the company will be forwarded to you.

Please let me know if you require any further information.

Thank you,

Andrius



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Phone: 416-314-5829

Pages 101 to / à 106

are withheld pursuant to section

sont retenues en vertu de l'article

22

of the Freedom of Information and Protection of Privacy Act

de la Freedom of Information and Protection of Privacy Act

From:	Pierre Dufresne
To:	Greenberg, Jonathan (MOECC); Andrius Paznekas
Cc:	Nicole Soucy
Subject:	RE: Ack Letter for PTTW Ref #7656-ATQS6Y - 5960 and 5970 Fernbank Road and 5993 Flewellyn Road
Date:	December 6, 2017 4:11:07 PM
Attachments:	image001.jpg SKM_C284e17120615390.pdf

Hi Jonathon,

Sorry for the confusion but Davidson Shea Properties is the registered owner of the Davidson Co-Tenancy lands. Attached are the articles of incorporation. Is the application fine now or would you like us to amend it accordingly?

Thanks,

Pierre Dufresne
Vice-President, Land Development

From: Greenberg, Jonathan (MOECC) [mailto:Jonathan.Greenberg@ontario.ca]
Sent: December-06-17 3:07 PM
To: Andrius Paznekas <andrius.paznekas@gemtec.ca>
Cc: Nicole Soucy <nicole.soucy@gemtec.ca>; Pierre Dufresne <pdufresne@tartanland.on.ca>
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Flewellyn Road

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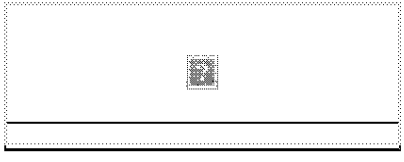

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Please feel free to contact me should you have any questions or concerns.

Sincerely,

Jon Greenberg
Application Assessment Officer|Application Assessment Unit
Environmental Assessment and Permissions Division
Ministry of the Environment and Climate Change
135 St. Clair Ave. West, 2nd Floor|Toronto, Ontario M4V 1P5
Email: jonathan.greenberg@ontario.ca
Phone: 416-314-5829

From:	Pierre Dufresne
To:	Greenberg, Jonathan (MOECC); Andrius Paznekas
Cc:	Nicole Soucy
Subject:	[Possible SPAM] RE: Ack Letter for PTTW Ref #7656-ATQS6Y - 5960 and 5970 Fernbank Road and 5993 Flewellyn Road
Date:	December 6, 2017 4:22:43 PM
Attachments:	image001.jpg

Hi Jonathon,

Yes, that will be fine. Thanks for your help on this.

Thanks,

Pierre Dufresne
Vice-President, Land Development

From: Greenberg, Jonathan (MOECC) [mailto:Jonathan.Greenberg@ontario.ca]
Sent: December-06-17 4:21 PM
To: Pierre Dufresne <pdufresne@tartanland.on.ca>; Andrius Paznekas <andrius.paznekas@gemtec.ca>
Cc: Nicole Soucy <nicole.soucy@gemtec.ca>
Subject: RE: Ack Letter for PTTW Ref #7656-ATQS6Y - 5960 and 5970 Fernbank Road and 5993 Flewellyn Road

Hi Pierre,

Thank you for providing this. To confirm, with this we would be able to issue the potential PTTW to "Davidson Shea Properties Inc." (as opposed to Davidson Co-Tenancy). Please confirm if this is acceptable. If so I will continue processing the application with Davidson Shea Properties Inc. as the applicant.

Thanks,

Jon Greenberg
Application Assessment Officer|Application Assessment Unit
Environmental Assessment and Permissions Division
Ministry of the Environment and Climate Change
135 St. Clair Ave. West, 2nd Floor|Toronto, Ontario M4V 1P5
Email: jonathan.greenberg@ontario.ca
Phone: 416-314-5829

From: Pierre Dufresne [mailto:pdufresne@tartanland.on.ca]
Sent: December-06-17 4:11 PM
To: Greenberg, Jonathan (MOECC); Andrius Paznekas
Cc: Nicole Soucy
Subject: RE: Ack Letter for PTTW Ref #7656-ATQS6Y - 5960 and 5970 Fernbank Road and 5993 Flewellyn Road

Hi Jonathon,

Sorry for the confusion but Davidson Shea Properties is the registered owner of the Davidson Co-Tenancy lands. Attached are the articles of incorporation. Is the application fine now or would you like us to amend it accordingly?

Thanks,

Pierre Dufresne
Vice-President, Land Development

From: Greenberg, Jonathan (MOECC) [mailto:Jonathan.Greenberg@ontario.ca]
Sent: December-06-17 3:07 PM
To: Andrius Paznekas <andrius.paznekas@gemtec.ca>
Cc: Nicole Soucy <nicole.soucy@gemtec.ca>; Pierre Dufresne <pdufresne@tartanland.on.ca>
Subject: RE: Ack Letter for PTTW Ref #7656-ATQS6Y - 5960 and 5970 Fernbank Road and 5993 Flewellyn Road

Hi Andrius,

I have not been able to find information on the business name "Davidson Lands Co-tenancy" in our system. Can you please provide documentation showing proof of legal name for this. Acceptable proof of legal name includes documents such as Articles of Incorporation, a Master Business license, Corporate Profile Report, etc.

Thanks,

Jon Greenberg
Application Assessment Officer | Application Assessment Unit
Environmental Assessment and Permissions Division
Ministry of the Environment and Climate Change
135 St. Clair Ave. West, 2nd Floor | Toronto, Ontario M4V 1P5
Email: jonathan.greenberg@ontario.ca
Phone: 416-314-5829

From: Andrius Paznekas [mailto:andrius.paznekas@gemtec.ca]
Sent: December-06-17 11:36 AM
To: Greenberg, Jonathan (MOECC)
Cc: Nicole Soucy; pdufresne@tartanland.on.ca
Subject: Re: Ack Letter for PTTW Ref #7656-ATQS6Y - 5960 and 5970 Fernbank Road and 5993 Flewellyn Road

Hello Jonathan,

Please see the responses to the additional action items described in the acknowledgement letter:

☐☐☐ NAICS code for the applicant is 236117 (New housing for-sale builders)
☐☐☐ Applicants name for the PTTW to be issued to: Davidson Lands Co-tenancy (business identification number 001597642)
☐☐☐ An updated signature page signed by an officer or director of the company will be forwarded to you.

Please let me know if you require any further information.

Thank you,
Andrius

Andrius Paznekas, M.Sc.
Environmental Scientist
Ottawa, ON
tel: 613.836.1422 x237 / toll-free: 1.877.243.6832
mobile: 613.295.8425 / fax: 613.836.9731

From: Greenberg, Jonathan (MOECC) <Jonathan.Greenberg@ontario.ca>
Sent: December 5, 2017 3:56:22 PM
To: pdufresne@tartanland.on.ca
Cc: Andrius Paznekas
Subject: Ack Letter for PTTW Ref #7656-ATQS6Y - 5960 and 5970 Fernbank Road and 5993 Flewellyn Road

Good Afternoon Pierre,

Please find our letter of acknowledgement for the above referenced file attached. The additional action required at this time is outlined on the attached letter. I have also attached a copy of the credit card receipt for your records.

Please feel free to contact me should you have any questions or concerns.

Sincerely,

Jon Greenberg
Application Assessment Officer | Application Assessment Unit
Environmental Assessment and Permissions Division
Ministry of the Environment and Climate Change
135 St. Clair Ave. West, 2nd Floor | Toronto, Ontario M4V 1P5
Email: jonathan.greenberg@ontario.ca

Phone: 416-314-5829

ERS CONFIRMATION FIELDS

EBR Type: Proposal	**Proposal Promotion Date:** 2017/12/12
EBR Registry Reference #: 013-2051	**Decision Promotion Date:**

COMMENTS

Comment Period Start Date: 2017/12/13	**Comment Period End Date:** 2018/01/12
Number of Written Comments Received: 0	**Number of Electronic Comments Received:** 0

IDS DECISION INFORMATION

Decision Description:	**Effects of Comments on Decision:** **Effects of Comments (as they will appear on ERS):** **Effects of Comments (optional attachment):**
Decision Comments:	**Appellate Body:** Environmental Review Tribunal
Decision Date: 2018/01/29	

ISSUING AUTHORITY

Organization Name:	
Last Name:	**First Name:**
Email:	**Title:**
Phone:	**Fax:**
Phone Extension:	**Fax Extension:**

PERMIT TO TAKE WATER
Regional Screening - Category 3 Checklist

Refer
C

Client:	Site:
Davidson Shea Properties Inc. Client Number: 8411-ATYHXY 237 Somerset St W Ottawa, Ontario, K2P 0J3 Canada	5960 and 5970 Fernbank Road and 5993 Flewellyn Road 5960 & 5970 Fernbank Rd Ottawa NA Concession: NA Plan: NA 5993 Flewellyn Road 5993 Flewellyn Rd Ottawa NA Concession: NA Plan: NA

REGIONAL CATEGORY 3 COMPLETION CHECK

No.	PTTW Type	Required Information	Screening Criteris	Action	Screenin
1.	All	Identify and verify location of water taking	Bring up water taking location on GIS using coordinates provided by applicant.	If the location indicated by the applicant is not correct (wrong lot or concession), contact applicant and verify location.	YES Location
2.	All	Does the application contain a complete report signed by a qualified person?	All applications must be accompanied by a report signed by a qualified person. For groundwater application, the report must be signed by a P.Eng or a P.Geo. For Surface water applications, the report must	If a signed report is attached, proceed. If no report is attached or it is not signed, return the application and initiate refund through IDS.	YES Report si 2017 by M Andrius I Shaun Pe Chevrier

			be signed by a biologist/ecologist or an engineer.		
3.	All	Has the Qualified Person contacted any other agencies?	Check whether the Qualified Person has consulted with other agencies about the evaluation of the impact of this water taking on fisheries, biology of ecology.	Indicate this consultation for the reviewer.	Not indic
4.	All	High Use or Medium Use Watershed (S. 4)	On GIS, bring up high use watershed layer. Confirm location of taking with respect to High Use and Medium Use watershed for both summer low and average low flow.	Flag to the reviewer for special conditions.	Rideau te Summer Average Rideau V
5.	All	Consumptive Use (S. 5)	Is this application for: Beverage manufacturing Fruit or vegetable canning or pickling (but not washing) Ready-mix concrete (not portable) Aggregate processing (to form a slurry) Manufactured product where water is incorporated into product (not pulp and paper nor ethanol plants)	It is exempt if: · a renewal or less · application from a municipality · taking from a Great Lake, interconnecting channel, St.Lawrence R., Ottawa R. or Welland Canal If not exempt, is it in a high use watershed for average annual conditions? Reject – see draft letter. If not exempt, is it in a high use watershed for summer low flow? Proceed with restricting conditions i.e. no taking in the summer (Aug 1 to Sept 11 of each year).	NO
6.	All	Water Conservation	Is the taking a new taking or an increased taking? For new, increased or existing takings, is the taking: · in a high or medium use	If yes to any one of the screening criteria, applicant is encouraged to submit information on water conservation practices undertaken or that to be undertaken for the duration of the permit according to the best management practices	YES Schedule applicatic

			watershed and/or · in a watershed or parts of a watershed declared as a Level I, II or III, under the Ontario Low Water Response, for at least 2 years during the 5 years prior to when the water taking is to commence low water conditions (according ? Does the water taking trigger the great Lakes Charter? Is the taking for a large municipal residential supply?	for their sector. PTTW Manual and Applicants' Guide list the information applicant should include and examples for where information is available. If none of the screening criteria apply, refer applicant to PTTW Manual and Applicant's Guide for information that could be submitted with application in response to question on water conservation.	

Attachments:

Ministry of the Environment and Climate Change
Eastern Region
Technical Support Section
1259 Gardiners Rd, PO Box 22032
Kingston, ON
K7P 3J6
Tel: (613) 549-4000

Ministère de l'Environnement et de l'Action en matière de changement climatique
Direction régionale de l'Est
Secteur du Soutien Technique
Ressource en eau
1259 Chemin Gardiners, CP 22032
Kingston, ON
K7P 3J6
Tél:(613) 549-4000

Ontario

January 29, 2018

Mr. Pierre Dufresne
Davidson Shea Properties Inc.
237 Somerset Street West
Ottawa, Ontario
K2P 0J3

Dear Mr. Dufresne,

RE: Permit To Take Water 2630-AUPJNY
Stittsville South - Area 6 Development
5960 & 5970 Fernbank Rd
5993 Flewellyn Rd
Ottawa

Reference Number 7656-ATQS6Y

Please find attached Permit to Take Water 2630-AUPJNY which authorizes the withdrawal of water in accordance with the application for this Permit to Take Water, dated December 6, 2017 and signed by R. Douglas Lazier.

Please note this Permit expires January 31, 2025.

Ontario Regulation 387/04 (Water Taking and Transfer) requires all water takers to report daily water taking amounts to the Water Taking Reporting System (WTRS) electronic database (https://www.lrcsdc.lrc.gov.on.ca/wtrs/). Daily water taking must be reported on a calendar year basis. If no water is taken, then a "no taking" report must be entered. Please consult the Regulation and Section 4 of this Permit for monitoring requirements.

If you have questions about reporting requirements, please call the WTRS Help Desk at 416-235-6322 (toll free: 1-877-344-2011) or by email, WTRSHelpdesk@ontario.ca. It is preferred that you submit your data directly and electronically to the WTRS. Where this is impracticable, please contact the WTRS Help Desk to arrange for written submission of your data.

Take notice that in issuing this Permit, terms and conditions pertaining to the taking of water and to the results of the taking have been imposed. The terms and conditions have been designed to allow for the development of water resources, while providing reasonable protection to existing water uses and users.

Yours truly,

Peter Taylor
Director, Section 34.1, Ontario Water Resources Act, R.S.O. 1990
Eastern Region

File Storage Number: SI OT 2630 220 (TS)

c: Andrius Paznekas, Houle Chevrier Engineering Ltd., apaznekas@hceng.ca

Ottawa District Office

Ontario

Davidson Shea Properties Inc. - Stittsville South Development, Area 6 - PTTW Ref #7656-ATQS6Y

Ministry of the Environment

UTM Zone 18 (NAD 1983)
Information Provided by: Ministry of Natural Resources, Ministry of the Environment, Ministry of Municipal Affairs and Housing and OMTI Spatial 2010.
Imagery Provided by DRAPE

N

The maps shown here are for illustration purposes only and are not suitable for site-specific use or applications. Ministry of the Environment provides this information with the understanding that it is not guaranteed to be accurate, correct or complete and conclusions drawn from such information are the responsibility of the user. While every effort has been made to use data believed to be accurate, a degree of error is inherent in all maps. Map products are intended for reference purposes only, and the Ministry of the Environment will accept no liability for consequential and indirect damages arising from the use of these maps. These maps are distributed "as-is" without warranties of any kind, either expressed or implied, including but not limited to warranties of suitability to a particular purpose or use.

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000120

Sarah Baxter

2018-01-04 09:30 AM

To: michel.kearney@ottawa.ca, postmaster@rvca.ca
cc: Sarah Baxter/ENE-Operations, tara.m.macdonald@ontario.ca
Subject: Notification of Application for Permit to Take Water

This E-mail message has been sent to you as a result of the requirements of Ontario's Water Taking and Transfer Regulation (O.Reg 387/04). The regulation requires that the Ministry of the Environment and Climate Change notify municipalities and conservation authorities of applications for Permits to Take Water to withdraw water from locations within their jurisdiction.

You may examine the wording of the Regulation online at the following web site:

http://www.e-laws.gov.on.ca/html/regs/english/elaws_regs_040387_e.htm

Notification of Application for Permit to Take Water

Ministry Reference Number:
7656-ATQS6Y

Applicant:
Davidson Shea Properties Inc.
237 Somerset St W
Ottawa, Ontario
K2P 0J3

Location of Water Taking(s):
5960 and 5970 Fernbank Road
5993 Flewellyn Rd
Ottawa City

Ministry of the Environment Region:
Eastern

Description:
This proposal is for a new Permit To Take Water for construction dewatering purposes. Water will be taken from excavation trenches and a stormwater management pond in order to construct a residential development. Details of the water taking are as follows:

Source Name: Excavation Trenches
Purpose: Construction Dewatering
Maximum rate per minute (Litres): 20,531
Maximum number of hours of taking per day: 24
Maximum volume per day (Litres): 9,855,000
Maximum number of days of taking per year: 365
Earliest calendar date of taking (mm/dd): 01/01
Latest calendar date of taking (mm/dd): 12/31
Period of taking: 7 years

Source Name: Stormwater Management Pond Excavation
Purpose: Construction Dewatering
Maximum rate per minute (Litres): 13,825
Maximum number of hours of taking per day: 24
Maximum volume per day (Litres): 6,636,000
Maximum number of days of taking per year: 365
Earliest calendar date of taking (mm/dd): 01/01
Latest calendar date of taking (mm/dd): 12/31
Period of taking: 7 years

Table A

Source Information and Water Taking Amount Applied For

	Source Name / Description:	Source: Type:	Taking Specific Purpose:	Taking Major Category:	Max. Taken per Minute (litres):	Max. Num. of Hrs Taken per Day:	Max. Taken per Day (litres):	Max. Num. of Days Taken per Year:	Zone/ Easting/ Northing:
1.	Excavation Trenches	Pond Dugout	Construction	Dewatering Construction	20531.00	24.00	9855000.00	365.00	18 429532 5011532
2.	Stormwater Management Pond	Pond Dugout	Construction	Dewatering Construction	13825.00	24.00	6636000.00	365.00	18 429852 5010779
						Total Taking:	16491000.00		

Comments should be directed to the following Contact Person:

Sarah Baxter
Environmental Scientist
Ministry of the Environment of Climate Change
sarah.baxter@ontario.ca

This E-mail message has been sent to you as a result of the requirements of Ontario Regulation 387/04. It is the responsibility of the municipality or Conservation Authority to determine the appropriate staff person to whom this notification should be forwarded. If you wish to have subsequent notification sent to a different person within your organization, please respond to this E-mail message with an alternate E-mail address and contact name. It is the responsibility of the municipality or conservation authority to ensure that any changes to the alternate E-mail address are reported to the Ministry.

Please note that any comments, concerns, or questions must be received by January 18, 2017.

From: Brian Stratton
To: Baxter, Sarah (MOECC)
Subject: FW: Notification of Application for Permit to Take Water
Date: January 8, 2018 1:39:38 PM

Hi Sarah

I'm happy to provide you with the comments below on the PTTW application (Ministry Reference Number: 7656-ATQS6Y).

Please let me know if you have any questions.

Thanks, Brian

With regard to the notice of application for permit to take water, the subject lands are located as part of the Stittsville Area 6 Plan of Subdivision. The subdivision ultimately connects and outlets to the Faulkner Drain through the proposed stormwater management facility to be constructed. A number of concerns were raised and addressed through the Draft Plan of Subdivision and subsequent Subdivision Agreement. Among those issues identified, water quality and quantity protection, sediment and erosion protection for the site completed prior to and as part of construction. The owners have agreed to:

- Erect protective fencing along the setback perimeter of the Faulkner Drain prior to any site preparation works within the Subdivision to ensure no disturbance to the watercourse;
- Prior to any construction stormwater management plans and erosion and sediment control plans approved and implemented;
- Provide short term and long term solutions to water quality and quantity impairment as the result of construction activities associated with the development of the subdivision

Therefore should the water from the permit to take water propose to discharge to the Faulkner Drain, it will need to be verified that the additional water will not adversely impact erosion of the channel, maintain water quality and quantity and should be referencing supporting documentation (Conceptual Stormwater Management Plan prepared by Novatech dated June 3, 2105).

Should you have any additional questions, please do not hesitate to contact me for additional information.

Eric Lalande, MCIP, RPP
Planner, Rideau Valley Conservation Authority
613-692-3571 x1137

Brian Stratton, P. Eng.
Manager, Engineering Services, Rideau Valley Conservation Authority
& Technical Lead, Drinking Water Source Protection, Mississippi-Rideau Source Protection Region

Rideau Valley Conservation Authority
Box 599, 3889 Rideau Valley Drive, Manotick ON, K4M 1A5 | 613-692-3571 x 1141
brian.stratton@rvca.ca www.rvca.ca | brian.stratton@mrsourcewater.ca www.mrsourcewater.ca

From: LRC Info
Sent: Thursday, January 4, 2018 12:04 PM
To: Brian Stratton <brian.stratton@mrsourcewater.ca>
Subject: FW: Notification of Application for Permit to Take Water

Hi Brian,

Please see the information below for a new PTTW.

Thanks!

From: RVCA Info
Sent: Thursday, January 04, 2018 11:45 AM
To: LRC Info <info@lrconline.com>; Terry Davidson <terry.davidson@rvca.ca>; Glen McDonald <glen.mcdonald@rvca.ca>
Subject: Fw: Notification of Application for Permit to Take Water

---

From: Sarah.Baxter@ontario.ca <Sarah.Baxter@ontario.ca>
Sent: January 4, 2018 9:34 AM
To: michel.kearney@ottawa.ca; RVCA Info
Cc: Sarah.Baxter@ontario.ca; tara.m.macdonald@ontario.ca
Subject: Notification of Application for Permit to Take Water

This E-mail message has been sent to you as a result of the requirements of Ontario's Water Taking and Transfer Regulation (O.Reg 387/04). The regulation requires that the Ministry of the Environment and Climate Change notify municipalities and conservation authorities of applications for Permits to Take Water to withdraw water from locations within their jurisdiction.

You may examine the wording of the Regulation online at the following web site:

http://www.e-laws.gov.on.ca/html/regs/english/elaws_regs_040387_e.htm

Notification of Application for Permit to Take Water

Ministry Reference Number:
7656-ATQS6Y

Applicant:
Davidson Shea Properties Inc.
237 Somerset St W
Ottawa, Ontario
K2P 0J3

Location of Water Taking(s):
5960 and 5970 Fernbank Road
5993 Flewellyn Rd
Ottawa City

Ministry of the Environment Region:

Eastern

Description:
This proposal is for a new Permit To Take Water for construction dewatering purposes. Water will be taken from excavation trenches and a stormwater management pond in order to construct a residential development. Details of the water taking are as follows:

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Latest calendar date of taking (mm/dd): 12/31
Period of taking: 7 years

Source Name: Stormwater Management Pond Excavation
Purpose: Construction Dewatering
Maximum rate per minute (Litres): 13,825
Maximum number of hours of taking per day: 24
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Maximum number of days of taking per year: 365
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Latest calendar date of taking (mm/dd): 12/31
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Table A

Source Information and Water Taking Amount Applied For

	Source Name / Description:	Source: Type:	Taking Specific Purpose:	Taking Major Category:	Max. Taken per Minute (litres):	Max. Num. of Hrs Taken per Day:	Max. Taken per Day (litres):	Max. Num. of Days Taken per Year:	Zone/ Easting/ Northing:
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2	Stormwater Management Pond	Pond Dugout	Construction	Dewatering Construction	13,825	24	6,636,000	365	18 429852 5010779
						Total Taking:	16,491,000		

Comments should be directed to the following Contact Person:

Sarah Baxter
Environmental Scientist

Ministry of the Environment of Climate Change
sarah.baxter@ontario.ca

This E-mail message has been sent to you as a result of the requirements of Ontario Regulation 387/04. It is the responsibility of the municipality or Conservation Authority to determine the appropriate staff person to whom this notification should be forwarded. If you wish to have subsequent notification sent to a different person within your organization, please respond to this E-mail message with an alternate E-mail address and contact name. It is the responsibility of the municipality or conservation authority to ensure that any changes to the alternate E-mail address are reported to the Ministry.

Please note that any comments, concerns, or questions must be received by January 18, 2017.

Ontario

Ministry of the Environment and Climate Change
Ministère de l'Environnement et de l'Action en matière de changement climatique

PERMIT TO TAKE WATER TECHNICAL REVIEW

Reference No: 7656-ATQS6Y
Created by: **Eric J Martin**

Client:	**Site:**
Davidson Shea Properties Inc. Client Number: 8411-ATYHXY 237 Somerset St W Ottawa, Ontario, K2P 0J3 Canada	5960 and 5970 Fernbank Road and 5993 Flewellyn Road 5960 & 5970 Fernbank Rd Ottawa NA Concession: NA Plan: NA 5993 Flewellyn Road 5993 Flewellyn Rd Ottawa NA Concession: NA Plan: NA

Application Technically Complete? ● Yes ○ No

More Technical Information Requested?: ○ Yes ● No

Information Reviewed (list all):

- PTTW File No.2630-AUPJNY
- Water Resources Section File No.Sl OT 2630 220 (TS)
- Application and Supporting Information (describe):
-

Related Review Issues:	
Other Relevant Approvals:	
Is Proposal subject to *Environmental Assessment Act* ?	○ Yes ● No If yes, is EA process completed? ○ Yes ○ No

	Are relevant EA recommendations incorporated into PTTW conditions? ○ Yes ○ No
Is Application for Bottled Water?	○ Yes ● No If yes, was ADM briefing note sent? ○ Yes ○ No
Bulk Water Taking?	○ Yes ● No If greater than 20L container transfer out of watershed, reject application (O. Reg 387/04).

Reviewer Consultation:	
with Municipality?	○ Yes ○ No
with First Nations?	○ Yes ○ No
with Conservation Authority?	○ Yes ○ No
with DFO?	○ Yes ○ No
with MOE District Office (complaints)	○ Yes ○ No
with MNR?	○ Yes ○ No
Consultation Details:	

Permit Technical Evaluation

Assess Complexity
Evaluate Risk for Impact:
The proposed water taking is related to the construction of a residential subdivision in Area 6, Stittsville South, Ottawa Ontario. The two (2) water taking sources are identified as: a) Source 1: a trench system, which will occupy various locations on site during the construction process, and b) Source 2: a storm water management pond, which will be a permanent fixture on site. The requested duration of water taking is eight (8) years. The maximum volumes from each source requested are: 9,855,800 L day-1 from source 1 and 6,636,000 L day-1 from source 2, for a total requested daily volume of 16,491,000 L. Typical values are estimated to be 3,285,000 L day-1 and 2,212,000 L day-1 for Sources 1 and 2, respectively.

Boundary Assessment:
Extent of Impacts Anticipated:

The radius of influence calculations provided are conservative and appropriate for the site.

The proposed excavations will extend though both the overburden and fractured bedrock units found on site. The hydraulic conductivity on site is estimated to be 0.01 cm s-1 but is spatially variable and has been measured to be as high as 0.02 cm s-1 in areas. The water table is characterized as shallow, ranging between 0.5 mbgs to 3 mbgs, while the expected lowering of the water table at each location is 7 m and 5 m for Source 1 and Source 2 respectively. These reductions in water level have an anticiapted radius of influence of 210 m and 150 m, repsectively.

Assess Potential Effects on other Users (Interference):
Indications of past interference from this taking? ● Yes ○ No
Several residences that rely on domestic wells are located both to the north and to the south of the site. The wells in question are advanced to depths ranging between 18 mbgs and 50 mbgs, with water found at depths of 10 mbgs and 48 mbgs. Two wells to the north of the property exist within the calculated radius of influence, and three, to the south of the property exist either at the edge of the anticipated radius of influence due to dewatering, or slightly outside it. Given the depth of the wells, it is unlikely that impacts will occur in these wells. In addition to this, the consultant has proposed the installation of a monitoring well between the stormwater monitoring pond and the residences to detect possible impacts. I reccomend that a monitoring well also be constructed in the north to measure potential impacts caused by dewatering.

A condition to the permit has been included to specify monitoring for static water levels to protect domestic wells to the north and south of the site. It is my opinion that the overall risk for interference is low.

Assess Potential Effects on the Environment:
Surface Water:
The proposed water takings are high-volume and are long-term in duration. A large quantity of extracted groundwater, identified as high in turbidity. Extracted water is to be discharged to vegetated areas on site. The discharged water will flow along existing drainage ditches that terminate the Jock River. A plan for the monitoring of water discharges, trigger mechanisms and contingencies is included in the permit application. I defer to a qualified person with a specialization in surface water to assess these plans.

Groundwater:
No groundwater contaminants have been identfied in the area. Water takings are non-consumptive and impacts to the Rideau watershed, in which the site is located are not anticipated.

Review and Consider EBR Comments:

Not Applicable

General Comments:

It is my opinion that the proposed water taking as described, is reasonable and that impacts or interference with existing groundwater users is unlikely. Given the long term nature of the water taking, the use of monitoring wells is suggested to collect data on static water levels to both the north as well as the south of the site. This data should be used to determine if domestic wells in these areas are likely to be impacted during the course of dewatering.

It is my reccommendation that the requested permit be approved with conditions.

☒ Recommend Approval with Conditions	☐ Recommend Application be Denied

Attachments:

Ministry of the Environment and Climate Change
Operations Division
1st Floor
135 St Clair Ave W
Toronto ON M4V 1P5
Fax: (416) 314-8452
Telephone: (416) 314-5829

Ministère de l'Environnement et de l'Action en matière de changement climatique
Division des Opérations
1er étage
135 av St Clair O
Toronto ON M4V 1P5
Télécopieur : (416) 314-8452
Téléphone : (416) 314-5829

Ontario

December 5, 2017

Pierre Dufresne
Tartan Crestway Developments Inc.
23B Somerset Street West
Ottawa, Ontario
K2P 0J3

Dear Pierre Dufresne:

Re: Application for Approval of Permit To Take Water
Tartan Crestway Developments Inc./New PTTW/Ponds/Construction Dewatering
City of Ottawa, Ontario
Reference Number 7656-ATQS6Y

We acknowledge receipt of your application for a Permit to Take Water for a New Permit and the fee in the amount of $3000.00, received on December 1, 2017, for the taking of water from a source located at:

Site Location: 5960 and 5970 Fernbank Road and 5993 Flewellyn Road
City of Ottawa, Ontario

The Ministry's reference number for your application is 7656-ATQS6Y. Please quote this number in any correspondence or enquiries regarding this application.

In our screening of your application for completeness, we have noted that the following additional information/documentation is necessary for us to process your application:

1. Please provide a five (5) or six (6) digit North American Industry Classification System (NAICS) code for the applicant.

2. Please confirm the applicant name(s) you are looking to have this Permit to Take Water (PTTW) issued to. Please note that the proposal would be posted to the Environmental Registry under the applicant name(s) in accordance with the Environmental Bill of Rights, and that the Permit to Take Water (PTTW) would be issued to this entity. Please also note that a draft PTTW cannot be issued in association with the above proposal.

3. Please note that the application form must be signed by an officer or director of the company. Please confirm if this has been done. If the application form has not been signed by an officer or director an alternative option would be to provide a letter granting signing authority to that individual.

Please be advised that should we not receive the above information/documentation or a response with explanation within two weeks of the date of this letter, we will consider your application withdrawn, and close your file accordingly. The submitted fee would then be refunded.

If you have any questions regarding the technical information required for your Permit to Take Water Application please contact our Eastern Region Office at (613)540-6868. Should you have any general questions regarding your application please feel free to contact me at the above telephone number. Information regarding Permits to Take Water is also available at www.ene.gov.on.ca.

Sincerely,

Jonathan Greenberg
Application Assessment Officer
Environmental Assessment and Approvals Branch

c: Andrius Paznekas, Houle Chevrier Engineering Ltd.

RE: Records Search for PE5472

Public Information Services <publicinformationservices@tssa.org>
Fri 7/5/2024 10:12 AM
To:Mohammed Ramadan <MRamadan@patersongroup.ca>

Hello ,

NO RECORDS FOUND IN CURRENT DATABASE:

- We confirm that there are NO **fuels records** in our database at the subject address(es).

This is not a confirmation that there are no records in the archives. For a further search in our archives, please go to the **TSSA Client Portal** to complete an Application for Release of Public Information.

Please refer to How to Submit a Public Information Request (tssa.org) for instructions.

The associated fee must be paid via credit card (Visa or MasterCard).

Once all steps have been successfully completed you will receive your payment receipt via email.

TSSA does not make any representations or warranties with respect to the accuracy or completeness of any records released. The requestor assumes all risk in using or relying on the information provided.

If you have any questions or concerns, please do not hesitate to contact our Public Information Release team at publicinformationservices@tssa.org.

Kind regards,

Slavka Zahrebelny | Public Information & Records Agent
Public Information
345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel: +1 416-734-3585 | Fax: +1 416-734-6242 | E-Mail: szahrebelny@tssa.org
www.tssa.org

Winner of 2024 5-Star Safety Cultures Award

From: Mohammed Ramadan <MRamadan@patersongroup.ca>
Sent: Friday, July 5, 2024 9:21 AM
To: Public Information Services <publicinformationservices@tssa.org>
Subject: Records Search for PE5472

Good Afternoon,

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

Flewellyn Street: 5971, 5988, 5993, 6115, 6141, 6159
Aridus Cres: 59
Fallowfield Road: 6065
Fernbank Road: 6070
Parade Drive: 750

Regards,

MOHAMMED RAMADAN, B.Sc.
Environmental Inspector

TEL: (613) 226-7381 ext. 345
DIRECT: (613) 909-8069

9 AURIGA DRIVE
OTTAWA ON K2E 7T9

patersongroup.ca

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:** *5993 & 6115 Flewellyn Road & 6070 Fernbank Rd & 59 Aridus , Ottawa, ON*

** Mandatory Field*

Applicant/Agent Information:

Name:	*Mohammed Ramadan*		
Mailing Address:	*9 Auriga Drive*		
Telephone:	*343-998-8982*	Email Address:	*mramadan@patersongroup.ca*

Registered Property Owner Information: ☐ Same as above

Name:	*Daniel Rokin*		
Mailing Address:	*3713 Borrisokane Road, Ottawa, ON*		
Telephone:	*613-240-3220*	Email Address:	*daniel.rokin@caivan.com*

Site Details

Legal Description and PIN:

What is the land currently used for? *Vacant*

Lot frontage: ____ m Lot depth: ____ m Lot area: ____ m²

OR Lot area: (irregular lot) ____ m²

Does the site 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 $136.00

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 ("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.

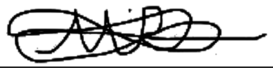
3. The City, its employees, servants, agents, boards, officials or contractors take no responsibility for any actions, claims, losses, liability, judgments, demands, expenses, costs, damages or harm suffered by any person whatsoever including negligence in compiling or disseminating information in the 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): 04/07/2024

Per: Mohammed Ramadan

(Please print name)

Title: Environmental Scientist

Company: Paterson Group

July 4, 2024
File: PE5472 -HLUI

Consulting Engineers
9 Auriga Drive
Ottawa, Ontario
K2E 7T9
Tel: (613) 226-7381

Geotechnical Engineering
Environmental Engineering
Hydrogeology
Materials Testing
Building Science
Rural Development Design
Retaining Wall Design
Noise and Vibration Studies

patersongroup.ca

City of Ottawa
110 Laurier Avenue W
Ottawa, Ontario
K1P 1J1

Subject: **Authorization Letter, HLUI Search**
Phase I-Environmental Site Assessment
Flewellyn Road
Ottawa, ON

Dear Sir/Madame

Please consider this letter as confirmation that Paterson Group has been retained to conduct a Phase I-Environmental Site Assessment at the aforementioned property.

With this letter, the property owner authorizes the City of Ottawa and other regulatory bodies to release, to Paterson Group, information requested for the purpose of completing an environmental assessment of the property.

Name of Company/Property Owner:	Caivan (Stittsvile South) Inc.
Name of Representative:	Daniel Rokin
Signature:	Daniel Rokin Digitally signed by Daniel Rokin DN: C=US, E=daniel.rokin@caivan.com, CN=Daniel Rokin Date: 2024.07.04 12:48:06-04'00'
Date:	July 4 2024

DATABASE REPORT

Project Property:	*Phase I ESA Update* *5993, 6070 & 6115 Flewellyn Road* *Ottawa ON*
Project No:	*60591*
Report Type:	*Quote - Custom-Build Your Own Report*
Order No:	*24070300572*
Requested by:	*Paterson Group Inc.*
Date Completed:	*July 4, 2024*

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

Table of Contents

Executive Summary

Property Information:

Project Property:	*Phase I ESA Update* *5993, 6070 & 6115 Flewellyn Road Ottawa ON*
Project No:	*60591*

Order Information:

Order No:	*24070300572*
Date Requested:	*July 3, 2024*
Requested by:	*Paterson Group Inc.*
Report Type:	*Quote - Custom-Build Your Own Report*

Historical/Products:

ERIS Xplorer	*ERIS Xplorer*

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
AAGR	Abandoned Aggregate Inventory	Y	0	0	0
AGR	Aggregate Inventory	Y	0	0	0
AMIS	Abandoned Mine Information System	Y	0	0	0
ANDR	Anderson's Waste Disposal Sites	Y	0	0	0
AST	Aboveground Storage Tanks	Y	0	0	0
AUWR	Automobile Wrecking & Supplies	Y	0	0	0
BORE	Borehole	Y	0	3	3
CA	Certificates of Approval	Y	0	0	0
CDRY	Dry Cleaning Facilities	Y	0	0	0
CFOT	Commercial Fuel Oil Tanks	Y	0	0	0
CHEM	Chemical Manufacturers and Distributors	Y	0	0	0
CHM	Chemical Register	Y	0	0	0
CNG	Compressed Natural Gas Stations	Y	0	0	0
COAL	Inventory of Coal Gasification Plants and Coal Tar Sites	Y	0	0	0
CONV	Compliance and Convictions	Y	0	0	0
CPU	Certificates of Property Use	Y	0	0	0
DRL	Drill Hole Database	Y	0	0	0
DTNK	Delisted Fuel Tanks	Y	0	0	0
EASR	Environmental Activity and Sector Registry	Y	0	0	0
EBR	Environmental Registry	Y	0	0	0
ECA	Environmental Compliance Approval	Y	8	1	9
EEM	Environmental Effects Monitoring	Y	0	0	0
EHS	ERIS Historical Searches	Y	4	0	4
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	Y	0	0	0
FCON	Federal Convictions	Y	0	0	0
FCS	Contaminated Sites on Federal Land	Y	0	0	0
FOFT	Fisheries & Oceans Fuel Tanks	Y	0	0	0
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	1	1

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
IAFT	Indian & Northern Affairs Fuel Tanks	Y	0	0	0
INC	Fuel Oil Spills and Leaks	Y	0	0	0
LIMO	Landfill Inventory Management Ontario	Y	0	0	0
MINE	Canadian Mine Locations	Y	0	0	0
MNR	Mineral Occurrences	Y	0	0	0
NATE	National Analysis of Trends in Emergencies System (NATES)	Y	0	0	0
NCPL	Non-Compliance Reports	Y	0	0	0
NDFT	National Defense & Canadian Forces Fuel Tanks	Y	0	0	0
NDSP	National Defense & Canadian Forces Spills	Y	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Y	0	0	0
NEBI	National Energy Board Pipeline Incidents	Y	0	0	0
NEBP	National Energy Board Wells	Y	0	0	0
NEES	National Environmental Emergencies System (NEES)	Y	0	0	0
NPCB	National PCB Inventory	Y	0	0	0
NPR2	National Pollutant Release Inventory 1993-2020	Y	0	0	0
NPRI	National Pollutant Release Inventory - Historic	Y	0	0	0
OGWE	Oil and Gas Wells	Y	0	0	0
OOGW	Ontario Oil and Gas Wells	Y	0	0	0
OPCB	Inventory of PCB Storage Sites	Y	0	0	0
ORD	Orders	Y	0	0	0
PAP	Canadian Pulp and Paper	Y	0	0	0
PCFT	Parks Canada Fuel Storage Tanks	Y	0	0	0
PES	Pesticide Register	Y	0	1	1
PFCH	NPRI Reporters - PFAS Substances	Y	0	0	0
PFHA	Potential PFAS Handlers from NPRI	Y	0	0	0
PINC	Pipeline Incidents	Y	0	1	1
PRT	Private and Retail Fuel Storage Tanks	Y	0	0	0
PTTW	Permit to Take Water	Y	1	0	1
REC	Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0
RSC	Record of Site Condition	Y	0	0	0
RST	Retail Fuel Storage Tanks	Y	0	0	0
SCT	Scott's Manufacturing Directory	Y	0	0	0
SPL	Ontario Spills	Y	0	1	1
SRDS	Wastewater Discharger Registration Database	Y	0	0	0
TANK	Anderson's Storage Tanks	Y	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Y	0	0	0
VAR	Variances for Abandonment of Underground Storage Tanks	Y	0	0	0
WDS	Waste Disposal Sites - MOE CA Inventory	Y	0	0	0
WDSH	Waste Disposal Sites - MOE 1991 Historical Approval Inventory	Y	0	0	0
WWIS	Water Well Information System	Y	0	35	35

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
Total:			13	43	56

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
1	EHS		PE5119 - 6070 Fernbank Rd Stittsville ON K2S 1B6	NE/0.0	-0.86	23
2	ECA	Stittsville South Inc. and 1384341 Ontario Ltd.	Part of 6070 Fernbank Road Ottawa ON K2C 0P9	NW/0.0	0.19	23
3	EHS		6115 Flewellyn Rd Stittsville ON K2S 1B6	WSW/0.0	0.92	23
4	ECA	1302042 Ontario Inc.	Part of North Half of Lot 24, Concession 9 Goulbourn ON K2P 0Y6	WNW/0.0	2.64	23
4	ECA	1302042 Ontario Inc.	Part of North Half of Lot 24, Concession 9 Goulbourn ON K2G 1E8	WNW/0.0	2.64	24
4	ECA	1302042 Ontario Inc.	Part of North Half of Lot 24, Concession 9 Goulbourn ON K2P 0Y6	WNW/0.0	2.64	24
4	ECA	1302042 Ontario Inc.	Part of North Half of Lot 24, Concession 9 Goulbourn ON K2P 0Y6	WNW/0.0	2.64	24
4	ECA	1302042 Ontario Inc.	Part of North Half of Lot 24, Concession 9 Goulbourn ON K2P 0Y6	WNW/0.0	2.64	25

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
5	ECA	1384341 Ontario Ltd.	57 Aridus Crescent Ottawa ON K0A 1B0	N/0.0	-0.65	25
6	EHS		5993 Flewellyn Road Stittsville ON K2S 1B6	NE/0.0	-1.02	25
7	EHS		5993 Flewellyn Rd Ottawa ON K2S1B6	NNE/0.0	-0.20	25
7	PTTW	Davidson Shea Properties Inc.	5960 and 5970 Fernbank Road and 5993 Flewellyn Road Lot 25, Concession 9 City of Ottawa, Ontario CITY OF OTTAWA ON	NNE/0.0	-0.20	26
7	ECA	Davidson Shea Properties Inc.	5993 Flewellyn Rd Ottawa ON K2P 0J3	NNE/0.0	-0.20	26

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
8	WWIS		lot 24 con 9 ON ***Well ID:*** 1530046	WNW/4.2	2.96	26
8	WWIS		lot 24 con 9 ON ***Well ID:*** 1530217	WNW/4.2	2.96	30
8	WWIS		lot 24 con 9 ON ***Well ID:*** 1530491	WNW/4.2	2.96	34
8	WWIS		lot 24 con 9 ON ***Well ID:*** 1530518	WNW/4.2	2.96	39
8	WWIS		lot 24 con 9 ON ***Well ID:*** 1530702	WNW/4.2	2.96	43
8	WWIS		lot 24 con 9 ON ***Well ID:*** 1530890	WNW/4.2	2.96	47
8	WWIS		lot 24 con 9 ON ***Well ID:*** 1519301	WNW/4.2	2.96	50
8	WWIS		lot 24 con 9 ON ***Well ID:*** 1522585	WNW/4.2	2.96	53
8	WWIS		lot 24 con 9 ON ***Well ID:*** 1527697	WNW/4.2	2.96	57
8	WWIS		lot 24 con 9 ON ***Well ID:*** 1527698	WNW/4.2	2.96	60
8	WWIS		lot 24 con 9 ON ***Well ID:*** 1527911	WNW/4.2	2.96	64
8	WWIS		lot 24 con 9 ON	WNW/4.2	2.96	67

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
			Well ID: 1528069			
8	WWIS		lot 24 con 9 ON ***Well ID:*** 1528202	WNW/4.2	2.96	70
8	WWIS		lot 24 con 9 ON ***Well ID:*** 1529417	WNW/4.2	2.96	74
8	WWIS		lot 24 con 9 ON ***Well ID:*** 1529428	WNW/4.2	2.96	78
8	WWIS		lot 24 con 9 ON ***Well ID:*** 1529429	WNW/4.2	2.96	82
8	WWIS		lot 24 con 9 ON ***Well ID:*** 1529448	WNW/4.2	2.96	85
8	WWIS		lot 24 con 9 ON ***Well ID:*** 1529457	WNW/4.2	2.96	89
8	WWIS		lot 24 con 9 ON ***Well ID:*** 1529489	WNW/4.2	2.96	94
8	WWIS		lot 24 con 9 ON ***Well ID:*** 1529569	WNW/4.2	2.96	98
8	WWIS		lot 24 con 9 ON ***Well ID:*** 1529791	WNW/4.2	2.96	102
9	WWIS		lot 24 con 9 ON ***Well ID:*** 1533027	WNW/6.4	2.96	106
10	WWIS		lot 24 con 9 ON ***Well ID:*** 1531200	WNW/7.1	2.96	108
11	WWIS		FLEWELLYN STITTSVILLE ON ***Well ID:*** 7317356	E/15.5	-3.02	112
12	WWIS		lot 25 con 9 ON	E/17.2	-4.86	116

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
			Well ID: 1527413			
13	WWIS		lot 25 con 9 ON ***Well ID:*** 1530043	NNE/20.9	-0.13	119
13	WWIS		lot 25 con 9 ON ***Well ID:*** 1518820	NNE/20.9	-0.13	123
13	WWIS		lot 25 con 9 ON ***Well ID:*** 1527414	NNE/20.9	-0.13	126
14	BORE		ON	SE/52.6	-3.05	130
15	WWIS		lot 24 con 8 ON ***Well ID:*** 1502540	SE/67.0	-3.05	131
16	WWIS		lot 25 con 8 ON ***Well ID:*** 1532642	E/79.1	-4.00	134
17	HINC		1 POPLARWOOD AVENUE STITTSVILLE ON K2S 1V3	SSW/83.6	-0.05	137
18	WWIS		lot 25 con 9 ON ***Well ID:*** 1527415	E/107.7	-4.80	138
19	PES	Pest B Gone Ottawa Inc.	83 ARIDUS CRES STITTSVILLE ON K2S 2L3	N/110.7	0.42	141
20	SPL	Enbridge Gas Distribution Inc.	884 Stallion Cres Ottawa ON	W/125.1	6.07	141
20	PINC	TSSA INCIDENTS	884 STALLION CRES,,OTTAWA,ON,K2S 0Y9,CA ON	W/125.1	6.07	142
21	ECA	Stittsville South Inc. and 1384341 Ontario Inc.	70 Friendly Cres 1883 Main Street, 1921 Main Street, 1877 Main Street, 74 Hartsmere Drive Ottawa ON K2C 0P9	NW/216.6	2.89	143

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
22	WWIS		lot 23 con 9 ON ***Well ID:*** 1510833	SSW/238.1	2.98	143
23	BORE		ON	SSW/238.2	2.98	146
24	WWIS		14 POPLARWOOD (LOT 43) lot 23 con 9 STITTSVILLE ON ***Well ID:*** 7176408	WSW/247.5	5.80	147
25	WWIS		lot 25 con 9 ON ***Well ID:*** 1502584	WNW/249.7	5.85	153
25	WWIS		lot 24 con 9 ON ***Well ID:*** 1510222	WNW/249.7	5.85	156
25	BORE		ON	WNW/249.7	5.85	159

Executive Summary: Summary By Data Source

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2018 has found that there are 3 BORE site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	ON	52.6	14
	ON	238.2	23
	ON	249.7	25

ECA - Environmental Compliance Approval

A search of the ECA database, dated Oct 2011-Apr 30, 2024 has found that there are 9 ECA site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Stittsville South Inc. and 1384341 Ontario Ltd.	Part of 6070 Fernbank Road Ottawa ON K2C 0P9	0.0	2
1302042 Ontario Inc.	Part of North Half of Lot 24, Concession 9 Goulbourn ON K2P 0Y6	0.0	4
1302042 Ontario Inc.	Part of North Half of Lot 24, Concession 9 Goulbourn ON K2G 1E8	0.0	4
1302042 Ontario Inc.	Part of North Half of Lot 24, Concession 9 Goulbourn ON K2P 0Y6	0.0	4
1302042 Ontario Inc.	Part of North Half of Lot 24, Concession 9 Goulbourn ON K2P 0Y6	0.0	4

Site	Address	Distance (m)	Map Key
1302042 Ontario Inc.	Part of North Half of Lot 24, Concession 9 Goulbourn ON K2P 0Y6	0.0	4
1384341 Ontario Ltd.	57 Aridus Crescent Ottawa ON K0A 1B0	0.0	5
Davidson Shea Properties Inc.	5993 Flewellyn Rd Ottawa ON K2P 0J3	0.0	7
Stittsville South Inc. and 1384341 Ontario Inc.	70 Friendly Cres 1883 Main Street, 1921 Main Street, 1877 Main Street, 74 Hartsmere Drive Ottawa ON K2C 0P9	216.6	21

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Mar 31, 2024 has found that there are 4 EHS site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	PE5119 - 6070 Fernbank Rd Stittsville ON K2S 1B6	0.0	1
	6115 Flewellyn Rd Stittsville ON K2S 1B6	0.0	3
	5993 Flewellyn Road Stittsville ON K2S 1B6	0.0	6
	5993 Flewellyn Rd Ottawa ON K2S1B6	0.0	7

HINC - TSSA Historic Incidents

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

Site	Address	Distance (m)	Map Key
	1 POPLARWOOD AVENUE STITTSVILLE ON K2S 1V3	83.6	17

PES - Pesticide Register

A search of the PES database, dated Oct 2011-Apr 30, 2024 has found that there are 1 PES site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Pest B Gone Ottawa Inc.	83 ARIDUS CRES STITTSVILLE ON K2S 2L3	110.7	19

PINC - Pipeline Incidents

A search of the PINC database, dated Feb 28, 2021 has found that there are 1 PINC site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
TSSA INCIDENTS	884 STALLION CRES,,OTTAWA,ON,K2S 0Y9,CA ON	125.1	20

PTTW - Permit to Take Water

A search of the PTTW database, dated 1994 - Mar 31, 2024 has found that there are 1 PTTW site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Davidson Shea Properties Inc.	5960 and 5970 Fernbank Road and 5993 Flewellyn Road Lot 25, Concession 9 City of Ottawa, Ontario CITY OF OTTAWA ON	0.0	7

SPL - Ontario Spills

A search of the SPL database, dated 1988-Jan 2023; see description has found that there are 1 SPL site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Enbridge Gas Distribution Inc.	884 Stallion Cres Ottawa ON	125.1	20

Site	Address	Distance (m)	Map Key

WWIS - Water Well Information System

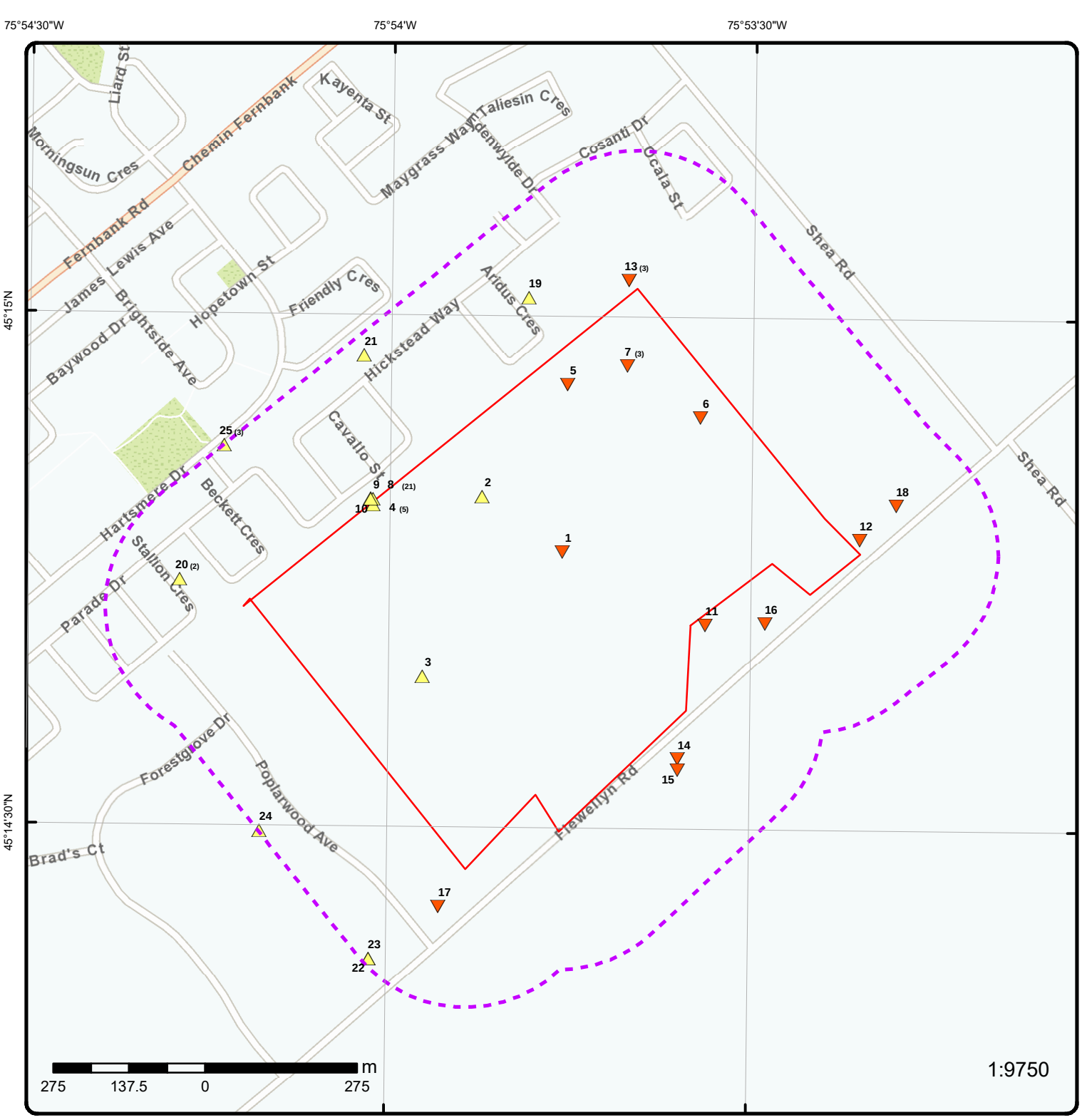
A search of the WWIS database, dated Dec 31 2023 has found that there are 35 WWIS site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	lot 24 con 9 ON ***Well ID:*** 1529791	4.2	8
	lot 24 con 9 ON ***Well ID:*** 1529569	4.2	8
	lot 24 con 9 ON ***Well ID:*** 1529489	4.2	8
	lot 24 con 9 ON ***Well ID:*** 1529457	4.2	8
	lot 24 con 9 ON ***Well ID:*** 1529448	4.2	8
	lot 24 con 9 ON ***Well ID:*** 1529429	4.2	8
	lot 24 con 9 ON ***Well ID:*** 1529417	4.2	8
	lot 24 con 9 ON ***Well ID:*** 1528202	4.2	8
	lot 24 con 9 ON ***Well ID:*** 1528069	4.2	8

Site	Address	Distance (m)	Map Key
	lot 24 con 9 ON ***Well ID:*** 1527911	4.2	8
	lot 24 con 9 ON ***Well ID:*** 1527698	4.2	8
	lot 24 con 9 ON ***Well ID:*** 1527697	4.2	8
	lot 24 con 9 ON ***Well ID:*** 1522585	4.2	8
	lot 24 con 9 ON ***Well ID:*** 1519301	4.2	8
	lot 24 con 9 ON ***Well ID:*** 1530890	4.2	8
	lot 24 con 9 ON ***Well ID:*** 1530702	4.2	8
	lot 24 con 9 ON ***Well ID:*** 1530518	4.2	8
	lot 24 con 9 ON ***Well ID:*** 1530491	4.2	8
	lot 24 con 9 ON ***Well ID:*** 1530217	4.2	8
	lot 24 con 9 ON ***Well ID:*** 1530046	4.2	8
	lot 24 con 9 ON	4.2	8

Site	Address	Distance (m)	Map Key
	Well ID: 1529428		
	lot 24 con 9 ON	6.4	9
	Well ID: 1533027		
	lot 24 con 9 ON	7.1	10
	Well ID: 1531200		
	FLEWELLYN STITTSVILLE ON	15.5	11
	Well ID: 7317356		
	lot 25 con 9 ON	17.2	12
	Well ID: 1527413		
	lot 25 con 9 ON	20.9	13
	Well ID: 1530043		
	lot 25 con 9 ON	20.9	13
	Well ID: 1518820		
	lot 25 con 9 ON	20.9	13
	Well ID: 1527414		
	lot 24 con 8 ON	67.0	15
	Well ID: 1502540		
	lot 25 con 8 ON	79.1	16
	Well ID: 1532642		
	lot 25 con 9 ON	107.7	18
	Well ID: 1527415		
	lot 23 con 9 ON	238.1	22
	Well ID: 1510833		

Site	Address	Distance (m)	Map Key
	14 POPLARWOOD (LOT 43) lot 23 con 9 STITTSVILLE ON ***Well ID:*** 7176408	247.5	**24**
	lot 25 con 9 ON ***Well ID:*** 1502584	249.7	**25**
	lot 24 con 9 ON ***Well ID:*** 1510222	249.7	**25**



Map: 0.25 Kilometer Radius

Order Number: 24070300572

Address: 5993, 6070 & 6115 Flewellyn Road, Ottawa, ON

ERIS

- Project Property
- Buffer Outline
- Eris Sites with Higher Elevation
- Eris Sites with Same Elevation
- Eris Sites with Lower Elevation
- Eris Sites with Unknown Elevation

- Freeways; Highways
- Traffic Circle; Ramp
- Major Arterial; Minor Arterial
- Local Road
- Service Road; Traffic Circle; Ramp
- Rail

- Beach
- Airport
- Industrial Area
- Military Base
- Aircraft Roads
- Native Reservation
- Hospital

- Shopping & Sports Area
- University/College
- Cemetery; Golf Course
- Parkt (National)
- Park (City/County)

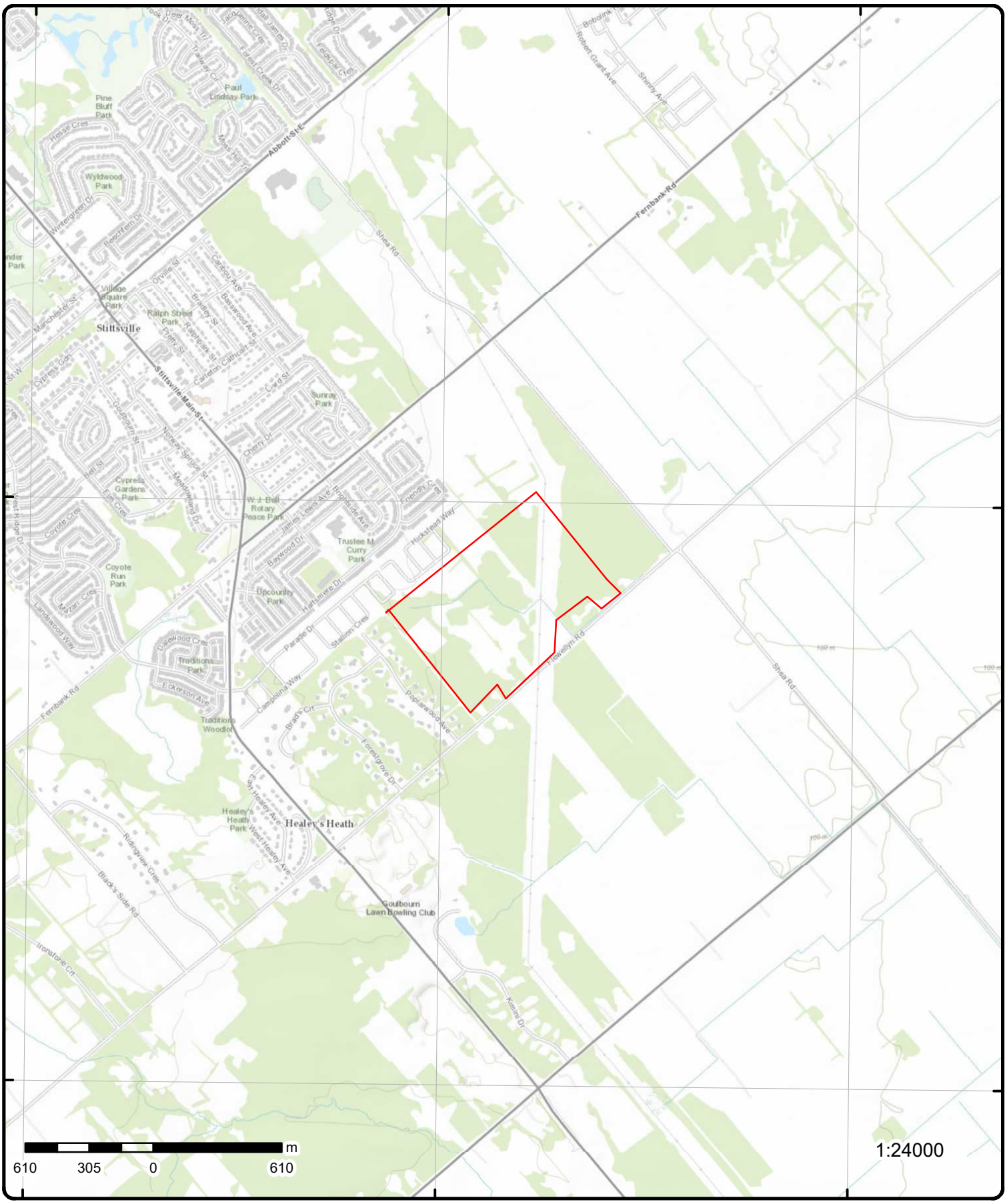
Aerial

Year: 2023

Order Number: 24070300572

Address: 5993, 6070 & 6115 Flewellyn Road, Ottawa, ON

Source: ESRI World Imagery



Topographic Map

Address: 5993, 6070 & 6115 Flewellyn Road, ON

Source: ESRI World Topographic Map

Order Number: 24070300572

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	1 of 1	NE/0.0	104.1 / -0.86	PE5119 - 6070 Fernbank Rd Stittsville ON K2S 1B6	EHS

Order No: 20312600031
Status: C
Report Type: Custom Report
Report Date: 08-DEC-20
Date Received: 26-NOV-20
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -75.8960201
Y: 45.2461584

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	1 of 1	NW/0.0	105.1 / 0.19	Stittsville South Inc. and 1384341 Ontario Ltd. Part of 6070 Fernbank Road Ottawa ON K2C 0P9	ECA

Approval No: 1816-AEFRJ9
Approval Date: 2016-10-13
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Stittsville South Inc. and 1384341 Ontario Ltd.
Address: Part of 6070 Fernbank Road
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/8106-AEFHCW-14.pdf
PDF Site Location:

MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
3	1 of 1	WSW/0.0	105.8 / 0.92	6115 Flewellyn Rd Stittsville ON K2S 1B6	EHS

Order No: 20302200033
Status: C
Report Type: Custom Report
Report Date: 28-OCT-20
Date Received: 22-OCT-20
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -75.8992177
Y: 45.2441085

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
4	1 of 5	WNW/0.0	107.6 / 2.64	1302042 Ontario Inc. Part of North Half of Lot 24, Concession 9 Goulbourn ON K2P 0Y6	ECA

Approval No: 2083-4LYPVB
Approval Date: 2000-07-07
Status: Approved
Record Type: ECA

MOE District: Ottawa
City:
Longitude: -75.9004
Latitude: 45.2469

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

Link Source:	IDS	**Geometry X:**	
SWP Area Name:	Rideau Valley	**Geometry Y:**	
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS		
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS		
Business Name:	1302042 Ontario Inc.		
Address:	Part of North Half of Lot 24, Concession 9		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/2442-4KTLDN-14.pdf		
PDF Site Location:			

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4 **2 of 5** **WNW/0.0** **107.6 / 2.64** **1302042 Ontario Inc.**
Part of North Half of Lot 24, Concession 9
Goulbourn ON K2G 1E8 **ECA**

Approval No:	3420-5W2KM2	**MOE District:**	Ottawa
Approval Date:	2004-02-10	**City:**	
Status:	Approved	**Longitude:**	-75.9004
Record Type:	ECA	**Latitude:**	45.2469
Link Source:	IDS	**Geometry X:**	
SWP Area Name:	Rideau Valley	**Geometry Y:**	
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS		
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS		
Business Name:	1302042 Ontario Inc.		
Address:	Part of North Half of Lot 24, Concession 9		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/4619-5UYJTZ-14.pdf		
PDF Site Location:			

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4 **3 of 5** **WNW/0.0** **107.6 / 2.64** **1302042 Ontario Inc.**
Part of North Half of Lot 24, Concession 9
Goulbourn ON K2P 0Y6 **ECA**

Approval No:	0712-4LZP6T	**MOE District:**	Ottawa
Approval Date:	2000-07-12	**City:**	
Status:	Revoked and/or Replaced	**Longitude:**	-75.9004
Record Type:	ECA	**Latitude:**	45.2469
Link Source:	IDS	**Geometry X:**	
SWP Area Name:	Rideau Valley	**Geometry Y:**	
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS		
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS		
Business Name:	1302042 Ontario Inc.		
Address:	Part of North Half of Lot 24, Concession 9		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/2327-4KGQTC-14.pdf		
PDF Site Location:			

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4 **4 of 5** **WNW/0.0** **107.6 / 2.64** **1302042 Ontario Inc.**
Part of North Half of Lot 24, Concession 9
Goulbourn ON K2P 0Y6 **ECA**

Approval No:	4861-4LYKWW	**MOE District:**	Ottawa
Approval Date:	2000-07-07	**City:**	
Status:	Approved	**Longitude:**	-75.9004
Record Type:	ECA	**Latitude:**	45.246900000000004
Link Source:	IDS	**Geometry X:**	
SWP Area Name:	Rideau Valley	**Geometry Y:**	
Approval Type:	ECA-Municipal and Private Water Works		
Project Type:	Municipal and Private Water Works		
Business Name:	1302042 Ontario Inc.		
Address:	Part of North Half of Lot 24, Concession 9		

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

Full Address:
Full PDF Link:
PDF Site Location:

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4 | **5 of 5** | **WNW/0.0** | **107.6 / 2.64** | **1302042 Ontario Inc.**
Part of North Half of Lot 24, Concession 9
Goulbourn ON K2P 0Y6 | **ECA**

Approval No:	8374-4LKQ7A	**MOE District:**	Ottawa
Approval Date:	2000-06-28	**City:**	
Status:	Approved	**Longitude:**	-75.9004
Record Type:	ECA	**Latitude:**	45.2469
Link Source:	IDS	**Geometry X:**	
SWP Area Name:	Rideau Valley	**Geometry Y:**	

Approval Type: ECA-AIR
Project Type: AIR
Business Name: 1302042 Ontario Inc.
Address: Part of North Half of Lot 24, Concession 9
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/6774-4KGPWE-14.pdf
PDF Site Location:

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5 | **1 of 1** | **N/0.0** | **104.3 / -0.65** | **1384341 Ontario Ltd.**
57 Aridus Crescent
Ottawa ON K0A 1B0 | **ECA**

Approval No:	3855-C5MJ6H	**MOE District:**	
Approval Date:	2021-08-18	**City:**	
Status:	Approved	**Longitude:**	
Record Type:	ECA	**Latitude:**	
Link Source:	IDS	**Geometry X:**	-8448829.8643
SWP Area Name:		**Geometry Y:**	5660844.306500002

Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: 1384341 Ontario Ltd.
Address: 57 Aridus Crescent
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/3511-C57SDC-14.pdf
PDF Site Location:

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6 | **1 of 1** | **NE/0.0** | **103.9 / -1.02** | **5993 Flewellyn Road**
Stittsville ON K2S 1B6 | **EHS**

Order No:	21091300400	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	RSC Report - Quote	**Client Prov/State:**	ON
Report Date:	23-SEP-21	**Search Radius (km):**	.3
Date Received:	13-SEP-21	**X:**	-75.89287464
Previous Site Name:		**Y:**	45.24836745
Lot/Building Size:			
Additional Info Ordered:			

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7 | **1 of 3** | **NNE/0.0** | **104.7 / -0.20** | **5993 Flewellyn Rd**
Ottawa ON K2S1B6 | **EHS**

Order No:	20130913018	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Custom Report	**Client Prov/State:**	ON

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

Report Date:	23-SEP-13	**Search Radius (km):**	.25
Date Received:	13-SEP-13	**X:**	-75.895819
Previous Site Name:		**Y:**	45.251172
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans; City Directory		

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7 | **2 of 3** | **NNE/0.0** | **104.7 / -0.20** | **Davidson Shea Properties Inc.**
5960 and 5970 Fernbank Road and 5993 Flewellyn Road Lot 25, Concession 9 City of Ottawa, Ontario CITY OF OTTAWA
ON | **PTTW**

EBR Registry No:	013-2051	**Decision Posted:**	
Ministry Ref No:	7656-ATQS6Y	**Exception Posted:**	
Notice Type:	Instrument Decision	**Section:**	
Notice Stage:		**Act 1:**	
Notice Date:	September 24, 2018	**Act 2:**	
Proposal Date:	December 13, 2017	**Site Location Map:**	
Year:	2017		
Instrument Type:	Permit to Take Water - OWRA s. 34		
Off Instrument Name:			
Posted By:			
Company Name:	Davidson Shea Properties Inc.(OWRA s. 34) - Permit to Take Water		
Site Address:			
Location Other:			
Proponent Name:	Davidson Shea Properties Inc.		
Proponent Address:	237 Somerset Street West Ottawa Ontario Canada K2P 0J3		
Comment Period:			
URL:	http://www.ebr.gov.on.ca/ERS-WEB-External/displaynoticecontent.do?noticeId=MTM0MTg0&statusId=MjA3NDI0&language=en		

Site Location Details:

5960 and 5970 Fernbank Road and 5993 Flewellyn Road
Lot 25, Concession 9
City of Ottawa, Ontario
CITY OF OTTAWA

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7 | **3 of 3** | **NNE/0.0** | **104.7 / -0.20** | **Davidson Shea Properties Inc.**
5993 Flewellyn Rd
Ottawa ON K2P 0J3 | **ECA**

Approval No:	4076-B33QM5	**MOE District:**	
Approval Date:	2018-08-20	**City:**	
Status:	Revoked and/or Replaced	**Longitude:**	
Record Type:	ECA	**Latitude:**	
Link Source:	IDS	**Geometry X:**	
SWP Area Name:		**Geometry Y:**	
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS		
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS		
Business Name:	Davidson Shea Properties Inc.		
Address:	5993 Flewellyn Rd		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/4302-B2RK9F-14.pdf		
PDF Site Location:			

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8 | **1 of 21** | **WNW/4.2** | **107.9 / 2.96** | **lot 24 con 9**
ON | **WWIS**

Well ID:	1530046	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Domestic	**Data Entry Status:**	
Use 2nd:		**Data Src:**	1
Final Well Status:	Water Supply	**Date Received:**	07/22/1998
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	183883	**Contractor:**	1558
Tag:		**Form Version:**	1
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	OTTAWA-CARLETON
Elevatn Reliabilty:		**Lot:**	024
Depth to Bedrock:		**Concession:**	09
Well Depth:		**Concession Name:**	CON
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	GOULBOURN TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/153\1530046.pdf

Additional Detail(s) (Map)

Well Completed Date:	06/18/1998
Year Completed:	1998
Depth (m):	39.624
Latitude:	45.2469921931762
Longitude:	-75.9004074173074
X:	-75.90040725637364
Y:	45.24699218665066
Path:	153\1530046.pdf

Bore Hole Information

Bore Hole ID:	10051581	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	429339.70
Code OB Desc:		**North83:**	5010783.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	9
Date Completed:	06/18/1998	**UTMRC Desc:**	unknown UTM
Remarks:		**Location Method:**	lot
Location Method Desc:	Lot centroid		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931074318
Layer:	2
Color:	2
General Color:	GREY
Material 1:	15
Material 1 Desc:	LIMESTONE
Material 2:	78

Material 2 Desc:	MEDIUM-GRAINED
Material 3:	74
Material 3 Desc:	LAYERED
Formation Top Depth:	9.0
Formation End Depth:	130.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931074317
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	02
Material 1 Desc:	TOPSOIL
Material 2:	81
Material 2 Desc:	SANDY
Material 3:	68
Material 3 Desc:	DRY
Formation Top Depth:	0.0
Formation End Depth:	9.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	933115164
Layer:	1
Plug From:	21.0
Plug To:	3.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961530046
Method Construction Code:	5
Method Construction:	Air Percussion
Other Method Construction:	

Pipe Information

Pipe ID:	10600151
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930089880
Layer:	3
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	130.0
Casing Diameter:	5.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID: 930089878
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 22.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930089879
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 30.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 991530046
Pump Set At:
Static Level: 18.0
Final Level After Pumping: 25.0
Recommended Pump Depth: 75.0
Pumping Rate: 15.0
Flowing Rate:
Recommended Pump Rate: 5.0
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
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934392238
Test Type: Draw Down
Test Duration: 30
Test Level: 25.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934117261
Test Type: Draw Down
Test Duration: 15
Test Level: 25.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934661396

Test Type:	Draw Down
Test Duration:	45
Test Level:	25.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934909934
Test Type:	Draw Down
Test Duration:	60
Test Level:	25.0
Test Level UOM:	ft

Water Details

Water ID:	933490074
Layer:	1
Kind Code:	5
Kind:	Not stated
Water Found Depth:	73.0
Water Found Depth UOM:	ft

Water Details

Water ID:	933490075
Layer:	2
Kind Code:	5
Kind:	Not stated
Water Found Depth:	127.0
Water Found Depth UOM:	ft

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8 **2 of 21** **WNW/4.2** **107.9 / 2.96** **lot 24 con 9 ON** **WWIS**

Well ID:	1530217	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Livestock	**Data Entry Status:**	
Use 2nd:		**Data Src:**	1
Final Well Status:	Observation Wells	**Date Received:**	10/15/1998
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	194707	**Contractor:**	1558
Tag:		**Form Version:**	1
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	OTTAWA-CARLETON
Elevatn Reliabilty:		**Lot:**	024
Depth to Bedrock:		**Concession:**	09
Well Depth:		**Concession Name:**	CON
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	GOULBOURN TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/153\1530217.pdf

Additional Detail(s) (Map)

Well Completed Date:	08/15/1998
Year Completed:	1998
Depth (m):	32.004

Latitude:	45.2469921931762
Longitude:	-75.9004074173074
X:	-75.90040725637364
Y:	45.24699218665066
Path:	153\1530217.pdf

Bore Hole Information

Bore Hole ID:	10051752	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	429339.70
Code OB Desc:		**North83:**	5010783.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	9
Date Completed:	08/15/1998	**UTMRC Desc:**	unknown UTM
Remarks:		**Location Method:**	lot
Location Method Desc:	Lot centroid		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931074865
Layer:	3
Color:	2
General Color:	GREY
Material 1:	14
Material 1 Desc:	HARDPAN
Material 2:	13
Material 2 Desc:	BOULDERS
Material 3:	79
Material 3 Desc:	PACKED
Formation Top Depth:	16.0
Formation End Depth:	25.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931074863
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	28
Material 1 Desc:	SAND
Material 2:	12
Material 2 Desc:	STONES
Material 3:	68
Material 3 Desc:	DRY
Formation Top Depth:	0.0
Formation End Depth:	5.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931074864
Layer:	2
Color:	6
General Color:	BROWN
Material 1:	14
Material 1 Desc:	HARDPAN
Material 2:	13
Material 2 Desc:	BOULDERS
Material 3:	79
Material 3 Desc:	PACKED
Formation Top Depth:	5.0
Formation End Depth:	16.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931074866
Layer:	4
Color:	2
General Color:	GREY
Material 1:	15
Material 1 Desc:	LIMESTONE
Material 2:	73
Material 2 Desc:	HARD
Material 3:	
Material 3 Desc:	
Formation Top Depth:	25.0
Formation End Depth:	105.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	933115345
Layer:	1
Plug From:	0.0
Plug To:	39.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961530217
Method Construction Code:	4
Method Construction:	Rotary (Air)
Other Method Construction:	

Pipe Information

Pipe ID:	10600322
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930090190
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	

Depth To:	40.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930090191
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	50.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930090192
Layer:	3
Material:	
Open Hole or Material:	
Depth From:	
Depth To:	105.0
Casing Diameter:	57.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pumping Test Method Desc:	BAILER
Pump Test ID:	991530217
Pump Set At:	
Static Level:	8.0
Final Level After Pumping:	10.0
Recommended Pump Depth:	75.0
Pumping Rate:	15.0
Flowing Rate:	
Recommended Pump Rate:	5.0
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	2
Water State After Test:	CLOUDY
Pumping Test Method:	2
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	No

Draw Down & Recovery

Pump Test Detail ID:	934392813
Test Type:	Draw Down
Test Duration:	30
Test Level:	10.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934910930
Test Type:	Draw Down
Test Duration:	60

Test Level: 10.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934117829
Test Type: Draw Down
Test Duration: 15
Test Level: 10.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934661967
Test Type: Draw Down
Test Duration: 45
Test Level: 10.0
Test Level UOM: ft

Water Details

Water ID: 933490287
Layer: 1
Kind Code: 5
Kind: Not stated
Water Found Depth: 65.0
Water Found Depth UOM: ft

Water Details

Water ID: 933490288
Layer: 2
Kind Code: 5
Kind: Not stated
Water Found Depth: 103.0
Water Found Depth UOM: ft

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8 | **3 of 21** | **WNW/4.2** | **107.9 / 2.96** | **lot 24 con 9 ON** | **WWIS**

Well ID:	1530491	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Livestock	**Data Entry Status:**	
Use 2nd:		**Data Src:**	1
Final Well Status:	Observation Wells	**Date Received:**	04/13/1999
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	194823	**Contractor:**	1558
Tag:		**Form Version:**	1
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	OTTAWA-CARLETON
Elevatn Reliabilty:		**Lot:**	024
Depth to Bedrock:		**Concession:**	09
Well Depth:		**Concession Name:**	CON
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	GOULBOURN TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/153\1530491.pdf

Additional Detail(s) (Map)

Well Completed Date:	02/22/1999
Year Completed:	1999
Depth (m):	60.96
Latitude:	45.2469921931762
Longitude:	-75.9004074173074
X:	-75.90040725637364
Y:	45.24699218665066
Path:	153\1530491.pdf

Bore Hole Information

Bore Hole ID:	10052026	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:		***East83:***	429339.70
Code OB Desc:		***North83:***	5010783.00
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	02/22/1999	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	lot
Location Method Desc:	Lot centroid		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931075665
Layer:	2
Color:	2
General Color:	GREY
Material 1:	14
Material 1 Desc:	HARDPAN
Material 2:	11
Material 2 Desc:	GRAVEL
Material 3:	79
Material 3 Desc:	PACKED
Formation Top Depth:	3.0
Formation End Depth:	6.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931075664
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	28
Material 1 Desc:	SAND
Material 2:	11
Material 2 Desc:	GRAVEL
Material 3:	01
Material 3 Desc:	FILL
Formation Top Depth:	0.0

Formation End Depth: 3.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931075669
Layer: 6
Color: 2
General Color: GREY
Material 1: 15
Material 1 Desc: LIMESTONE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 140.0
Formation End Depth: 200.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931075666
Layer: 3
Color: 2
General Color: GREY
Material 1: 15
Material 1 Desc: LIMESTONE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 6.0
Formation End Depth: 74.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931075667
Layer: 4
Color: 2
General Color: GREY
Material 1: 15
Material 1 Desc: LIMESTONE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 74.0
Formation End Depth: 123.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931075668
Layer: 5
Color: 7
General Color: RED
Material 1: 15

Material 1 Desc:	LIMESTONE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	123.0
Formation End Depth:	140.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	933115641
Layer:	1
Plug From:	24.0
Plug To:	3.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961530491
Method Construction Code:	2
Method Construction:	Rotary (Convent.)
Other Method Construction:	

Pipe Information

Pipe ID:	10600596
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930090741
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	200.0
Casing Diameter:	5.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930090740
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	25.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pumping Test Method Desc:	PUMP
Pump Test ID:	991530491

Pump Set At:
Static Level: 22.0
Final Level After Pumping: 60.0
Recommended Pump Depth: 150.0
Pumping Rate: 13.0
Flowing Rate:
Recommended Pump Rate: 5.0
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
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934902194
Test Type: Draw Down
Test Duration: 60
Test Level: 60.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934118885
Test Type: Draw Down
Test Duration: 15
Test Level: 40.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934663024
Test Type: Draw Down
Test Duration: 45
Test Level: 60.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934385061
Test Type: Draw Down
Test Duration: 30
Test Level: 51.0
Test Level UOM: ft

Water Details

Water ID: 933490651
Layer: 2
Kind Code: 5
Kind: Not stated
Water Found Depth: 165.0
Water Found Depth UOM: ft

Water Details

Water ID: 933490652
Layer: 3

Kind Code: 5
Kind: Not stated
Water Found Depth: 195.0
Water Found Depth UOM: ft

Water Details

Water ID: 933490650
Layer: 1
Kind Code: 5
Kind: Not stated
Water Found Depth: 90.0
Water Found Depth UOM: ft

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8 | **4 of 21** | **WNW/4.2** | **107.9 / 2.96** | **lot 24 con 9 ON** | **WWIS**

Well ID: 1530518
Construction Date:
Use 1st: Domestic
Use 2nd:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 194849
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: GOULBOURN TOWNSHIP
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 06/14/1999
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1558
Form Version: 1
Owner:
County: OTTAWA-CARLETON
Lot: 024
Concession: 09
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/153\1530518.pdf

Additional Detail(s) (Map)

Well Completed Date: 05/18/1999
Year Completed: 1999
Depth (m): 53.9496
Latitude: 45.2469921931762
Longitude: -75.9004074173074
X: -75.90040725637364
Y: 45.24699218665066
Path: 153\1530518.pdf

Bore Hole Information

Bore Hole ID: 10052053
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 05/18/1999
Remarks:

Elevation:
Elevrc:
Zone: 18
East83: 429339.70
North83: 5010783.00
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: lot

Location Method Desc: Lot centroid
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 931075767
Layer: 2
Color: 2
General Color: GREY
Material 1: 15
Material 1 Desc: LIMESTONE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 5.0
Formation End Depth: 97.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931075766
Layer: 1
Color: 6
General Color: BROWN
Material 1: 28
Material 1 Desc: SAND
Material 2: 01
Material 2 Desc: FILL
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 5.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931075768
Layer: 3
Color: 6
General Color: BROWN
Material 1: 15
Material 1 Desc: LIMESTONE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 97.0
Formation End Depth: 147.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID:	931075769
Layer:	4
Color:	2
General Color:	GREY
Material 1:	15
Material 1 Desc:	LIMESTONE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	147.0
Formation End Depth:	177.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	933115676
Layer:	1
Plug From:	20.0
Plug To:	4.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961530518
Method Construction Code:	4
Method Construction:	Rotary (Air)
Other Method Construction:	

Pipe Information

Pipe ID:	10600623
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930090794
Layer:	1
Material:	2
Open Hole or Material:	GALVANIZED
Depth From:	
Depth To:	22.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930090795
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	177.0
Casing Diameter:	5.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pumping Test Method Desc:	PUMP
Pump Test ID:	991530518
Pump Set At:	
Static Level:	30.0
Final Level After Pumping:	36.0
Recommended Pump Depth:	100.0
Pumping Rate:	15.0
Flowing Rate:	
Recommended Pump Rate:	5.0
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
Flowing:	No

Draw Down & Recovery

Pump Test Detail ID:	934902216
Test Type:	Draw Down
Test Duration:	60
Test Level:	36.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934118907
Test Type:	Draw Down
Test Duration:	15
Test Level:	36.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934385083
Test Type:	Draw Down
Test Duration:	30
Test Level:	36.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934663046
Test Type:	Draw Down
Test Duration:	45
Test Level:	36.0
Test Level UOM:	ft

Water Details

Water ID:	933490679
Layer:	1
Kind Code:	5
Kind:	Not stated
Water Found Depth:	109.0
Water Found Depth UOM:	ft

Water Details

Water ID:	933490680
Layer:	2
Kind Code:	5
Kind:	Not stated
Water Found Depth:	173.0
Water Found Depth UOM:	ft

8 | ***5 of 21*** | ***WNW/4.2*** | ***107.9 / 2.96*** | ***lot 24 con 9 ON*** | ***WWIS***

Well ID:	1530702	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Domestic	***Data Entry Status:***	
Use 2nd:		***Data Src:***	1
Final Well Status:	Water Supply	***Date Received:***	09/15/1999
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	208435	***Contractor:***	1558
Tag:		***Form Version:***	1
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	OTTAWA-CARLETON
Elevatn Reliabilty:		***Lot:***	024
Depth to Bedrock:		***Concession:***	09
Well Depth:		***Concession Name:***	CON
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	GOULBOURN TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/153\1530702.pdf

Additional Detail(s) (Map)

Well Completed Date:	08/17/1999
Year Completed:	1999
Depth (m):	33.528
Latitude:	45.2469921931762
Longitude:	-75.9004074173074
X:	-75.90040725637364
Y:	45.24699218665066
Path:	153\1530702.pdf

Bore Hole Information

Bore Hole ID:	10052236	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:		***East83:***	429339.70
Code OB Desc:		***North83:***	5010783.00
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	08/17/1999	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	lot
Location Method Desc:	Lot centroid		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			

Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID:	931076324
Layer:	2
Color:	2
General Color:	GREY
Material 1:	15
Material 1 Desc:	LIMESTONE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	5.0
Formation End Depth:	60.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931076326
Layer:	4
Color:	8
General Color:	BLACK
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	90.0
Formation End Depth:	110.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931076323
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	28
Material 1 Desc:	SAND
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	5.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931076325
Layer:	3
Color:	2
General Color:	GREY
Material 1:	15

Material 1 Desc:	LIMESTONE
Material 2:	73
Material 2 Desc:	HARD
Material 3:	
Material 3 Desc:	
Formation Top Depth:	60.0
Formation End Depth:	90.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	933115841
Layer:	1
Plug From:	0.0
Plug To:	21.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961530702
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10600806
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930091150
Layer:	3
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	110.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930091148
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	23.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930091149
Layer:	2

Material:
Open Hole or Material:
Depth From:
Depth To: 60.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: BAILER
Pump Test ID: 991530702
Pump Set At:
Static Level: 18.0
Final Level After Pumping: 40.0
Recommended Pump Depth: 75.0
Pumping Rate: 15.0
Flowing Rate:
Recommended Pump Rate: 5.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 2
Pumping Duration HR: 1
Pumping Duration MIN:
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934903223
Test Type:
Test Duration: 60
Test Level: 40.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934120047
Test Type:
Test Duration: 15
Test Level: 40.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934664186
Test Type:
Test Duration: 45
Test Level: 40.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934385668
Test Type:
Test Duration: 30
Test Level: 40.0
Test Level UOM: ft

Water Details

Water ID:	933490923
Layer:	1
Kind Code:	5
Kind:	Not stated
Water Found Depth:	106.0
Water Found Depth UOM:	ft

8 | **6 of 21** | **WNW/4.2** | **107.9 / 2.96** | **lot 24 con 9 ON** | **WWIS**

Well ID:	1530890	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Domestic	**Data Entry Status:**	
Use 2nd:		**Data Src:**	1
Final Well Status:	Water Supply	**Date Received:**	12/07/1999
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	208492	**Contractor:**	1558
Tag:		**Form Version:**	1
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	OTTAWA-CARLETON
Elevatn Reliabilty:		**Lot:**	024
Depth to Bedrock:		**Concession:**	09
Well Depth:		**Concession Name:**	CON
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	GOULBOURN TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/153\1530890.pdf

Additional Detail(s) (Map)

Well Completed Date:	10/30/1999
Year Completed:	1999
Depth (m):	22.86
Latitude:	45.2469921931762
Longitude:	-75.9004074173074
X:	-75.90040725637364
Y:	45.24699218665066
Path:	153\1530890.pdf

Bore Hole Information

Bore Hole ID:	10052424	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	429339.70
Code OB Desc:		**North83:**	5010783.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	9
Date Completed:	10/30/1999	**UTMRC Desc:**	unknown UTM
Remarks:		**Location Method:**	lot
Location Method Desc:	Lot centroid		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931076878
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	02
Material 1 Desc:	TOPSOIL
Material 2:	71
Material 2 Desc:	FRACTURED
Material 3:	26
Material 3 Desc:	ROCK
Formation Top Depth:	0.0
Formation End Depth:	6.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931076879
Layer:	2
Color:	2
General Color:	GREY
Material 1:	15
Material 1 Desc:	LIMESTONE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	6.0
Formation End Depth:	75.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	933116064
Layer:	1
Plug From:	0.0
Plug To:	21.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961530890
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10600994
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930091544
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	22.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930091546
Layer:	3
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	75.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930091545
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	50.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pumping Test Method Desc:	BAILER
Pump Test ID:	991530890
Pump Set At:	
Static Level:	18.0
Final Level After Pumping:	19.0
Recommended Pump Depth:	50.0
Pumping Rate:	25.0
Flowing Rate:	
Recommended Pump Rate:	5.0
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	2
Water State After Test:	CLOUDY
Pumping Test Method:	2
Pumping Duration HR:	1
Pumping Duration MIN:	
Flowing:	No

Draw Down & Recovery

Pump Test Detail ID:	934119505
Test Type:	Draw Down
Test Duration:	15
Test Level:	19.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934386243
Test Type:	Draw Down
Test Duration:	30
Test Level:	19.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934663643
Test Type:	Draw Down
Test Duration:	45
Test Level:	19.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934903795
Test Type:	Draw Down
Test Duration:	60
Test Level:	19.0
Test Level UOM:	ft

Water Details

Water ID:	933491176
Layer:	1
Kind Code:	5
Kind:	Not stated
Water Found Depth:	54.0
Water Found Depth UOM:	ft

8 ***7 of 21*** ***WNW/4.2*** ***107.9 / 2.96*** ***lot 24 con 9 ON*** ***WWIS***

Well ID:	1519301	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Domestic	***Data Entry Status:***	
Use 2nd:		***Data Src:***	1
Final Well Status:	Water Supply	***Date Received:***	10/25/1984
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:		***Contractor:***	3644
Tag:		***Form Version:***	1
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	OTTAWA-CARLETON
Elevatn Reliabilty:		***Lot:***	024
Depth to Bedrock:		***Concession:***	09
Well Depth:		***Concession Name:***	CON
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	GOULBOURN TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1519301.pdf

Additional Detail(s) (Map)

Well Completed Date: 10/12/1984

Year Completed:	1984
Depth (m):	32.004
Latitude:	45.2469921931762
Longitude:	-75.9004074173074
X:	-75.90040725637364
Y:	45.24699218665066
Path:	151\1519301.pdf

Bore Hole Information

Bore Hole ID:	10041171	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	429339.70
Code OB Desc:		**North83:**	5010783.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	9
Date Completed:	10/12/1984	**UTMRC Desc:**	unknown UTM
Remarks:		**Location Method:**	lot
Location Method Desc:	Lot centroid		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931041251
Layer:	1
Color:	2
General Color:	GREY
Material 1:	05
Material 1 Desc:	CLAY
Material 2:	12
Material 2 Desc:	STONES
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	6.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931041252
Layer:	2
Color:	2
General Color:	GREY
Material 1:	15
Material 1 Desc:	LIMESTONE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	6.0
Formation End Depth:	105.0
Formation End Depth UOM:	ft

Annular Space/Abandonment

Sealing Record

Plug ID:	933108854
Layer:	1
Plug From:	10.0
Plug To:	22.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961519301
Method Construction Code:	5
Method Construction:	Air Percussion
Other Method Construction:	

Pipe Information

Pipe ID:	10589741
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930071884
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	22.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930071885
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	105.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pumping Test Method Desc:	PUMP
Pump Test ID:	991519301
Pump Set At:	
Static Level:	10.0
Final Level After Pumping:	60.0
Recommended Pump Depth:	60.0
Pumping Rate:	12.0
Flowing Rate:	
Recommended Pump Rate:	12.0
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
Flowing:	No

Draw Down & Recovery

Pump Test Detail ID:	934382695
Test Type:	
Test Duration:	30
Test Level:	60.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934901779
Test Type:	
Test Duration:	60
Test Level:	60.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934652113
Test Type:	
Test Duration:	45
Test Level:	60.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934107539
Test Type:	
Test Duration:	15
Test Level:	60.0
Test Level UOM:	ft

Water Details

Water ID:	933476242
Layer:	1
Kind Code:	2
Kind:	SALTY
Water Found Depth:	50.0
Water Found Depth UOM:	ft

Water Details

Water ID:	933476243
Layer:	2
Kind Code:	1
Kind:	FRESH
Water Found Depth:	100.0
Water Found Depth UOM:	ft

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
8	8 of 21	WNW/4.2	107.9 / 2.96	lot 24 con 9 ON	WWIS

Well ID:	1522585	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	

Use 1st:	Domestic	**Data Entry Status:**	
Use 2nd:		**Data Src:**	1
Final Well Status:	Water Supply	**Date Received:**	09/01/1988
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	38203	**Contractor:**	1558
Tag:		**Form Version:**	1
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	OTTAWA-CARLETON
Elevatn Reliabilty:		**Lot:**	024
Depth to Bedrock:		**Concession:**	09
Well Depth:		**Concession Name:**	CON
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	

Municipality: GOULBOURN TOWNSHIP
Site Info:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/152\1522585.pdf

Additional Detail(s) (Map)

Well Completed Date: 07/05/1988
Year Completed: 1988
Depth (m): 38.1
Latitude: 45.2469921931762
Longitude: -75.9004074173074
X: -75.90040725637364
Y: 45.24699218665066
Path: 152\1522585.pdf

Bore Hole Information

Bore Hole ID:	10044397	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	429339.70
Code OB Desc:		**North83:**	5010783.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	9
Date Completed:	07/05/1988	**UTMRC Desc:**	unknown UTM
Remarks:		**Location Method:**	lot

Location Method Desc: Lot centroid
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 931051966
Layer: 3
Color: 2
General Color: GREY
Material 1: 15
Material 1 Desc: LIMESTONE
Material 2: 74
Material 2 Desc: LAYERED
Material 3: 65

Material 3 Desc: DARK-COLOURED
Formation Top Depth: 11.0
Formation End Depth: 125.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931051964
Layer: 1
Color: 6
General Color: BROWN
Material 1: 28
Material 1 Desc: SAND
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 3.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931051965
Layer: 2
Color: 2
General Color: GREY
Material 1: 05
Material 1 Desc: CLAY
Material 2: 81
Material 2 Desc: SANDY
Material 3: 13
Material 3 Desc: BOULDERS
Formation Top Depth: 3.0
Formation End Depth: 11.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961522585
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10592967
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930077640
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 125.0

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

Construction Record - Casing

Casing ID: 930077639
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 21.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 991522585
Pump Set At:
Static Level: 10.0
Final Level After Pumping: 75.0
Recommended Pump Depth: 100.0
Pumping Rate: 6.0
Flowing Rate:
Recommended Pump Rate: 5.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934656140
Test Type: Draw Down
Test Duration: 45
Test Level: 75.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934110921
Test Type: Draw Down
Test Duration: 15
Test Level: 75.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934904537
Test Type: Draw Down
Test Duration: 60
Test Level: 75.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934386346
Test Type: Draw Down
Test Duration: 30
Test Level: 75.0
Test Level UOM: ft

Water Details

Water ID: 933480537
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 118.0
Water Found Depth UOM: ft

Water Details

Water ID: 933480536
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 90.0
Water Found Depth UOM: ft

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8 | **9 of 21** | **WNW/4.2** | **107.9 / 2.96** | **lot 24 con 9 ON** | **WWIS**

Well ID: 1527697
Construction Date:
Use 1st: Domestic
Use 2nd:
Final Well Status: Test Hole
Water Type:
Casing Material:
Audit No: 142251
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: GOULBOURN TOWNSHIP
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 04/13/1994
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1558
Form Version: 1
Owner:
County: OTTAWA-CARLETON
Lot: 024
Concession: 09
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/152\1527697.pdf

Additional Detail(s) (Map)

Well Completed Date: 03/17/1994
Year Completed: 1994
Depth (m): 19.5072
Latitude: 45.2469921931762
Longitude: -75.9004074173074
X: -75.90040725637364
Y: 45.24699218665066
Path: 152\1527697.pdf

Bore Hole Information

Bore Hole ID:	10049323	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:		***East83:***	429339.70
Code OB Desc:		***North83:***	5010783.00
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	03/17/1994	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	lot
Location Method Desc:	Lot centroid		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931067444
Layer:	2
Color:	2
General Color:	GREY
Material 1:	15
Material 1 Desc:	LIMESTONE
Material 2:	74
Material 2 Desc:	LAYERED
Material 3:	78
Material 3 Desc:	MEDIUM-GRAINED
Formation Top Depth:	21.0
Formation End Depth:	64.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931067443
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	28
Material 1 Desc:	SAND
Material 2:	11
Material 2 Desc:	GRAVEL
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	21.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	933112655
Layer:	1
Plug From:	0.0
Plug To:	21.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961527697
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10597893
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930086149
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	64.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930086148
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	21.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pumping Test Method Desc:	BAILER
Pump Test ID:	991527697
Pump Set At:	
Static Level:	6.0
Final Level After Pumping:	18.0
Recommended Pump Depth:	50.0
Pumping Rate:	20.0
Flowing Rate:	
Recommended Pump Rate:	5.0
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	2
Water State After Test:	CLOUDY
Pumping Test Method:	2
Pumping Duration HR:	2
Pumping Duration MIN:	0
Flowing:	No

Draw Down & Recovery

Pump Test Detail ID:	934111322

Test Type:	Draw Down
Test Duration:	15
Test Level:	18.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934904256
Test Type:	Draw Down
Test Duration:	60
Test Level:	18.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934386138
Test Type:	Draw Down
Test Duration:	30
Test Level:	18.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934655885
Test Type:	Draw Down
Test Duration:	45
Test Level:	18.0
Test Level UOM:	ft

Water Details

Water ID:	933487224
Layer:	1
Kind Code:	5
Kind:	Not stated
Water Found Depth:	33.0
Water Found Depth UOM:	ft

Water Details

Water ID:	933487225
Layer:	2
Kind Code:	5
Kind:	Not stated
Water Found Depth:	57.0
Water Found Depth UOM:	ft

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8 | ***10 of 21*** | ***WNW/4.2*** | ***107.9 / 2.96*** | ***lot 24 con 9 ON*** | ***WWIS***

Well ID:	1527698	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Domestic	**Data Entry Status:**	
Use 2nd:		**Data Src:**	1
Final Well Status:	Water Supply	**Date Received:**	04/13/1994
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	142237	**Contractor:**	1558
Tag:		**Form Version:**	1
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	OTTAWA-CARLETON

Elevatn Reliabilty:		**Lot:**	024
Depth to Bedrock:		**Concession:**	09
Well Depth:		**Concession Name:**	CON
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	GOULBOURN TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/152\1527698.pdf

Additional Detail(s) (Map)

Well Completed Date:	02/02/1994
Year Completed:	1994
Depth (m):	19.2024
Latitude:	45.2469921931762
Longitude:	-75.9004074173074
X:	-75.90040725637364
Y:	45.24699218665066
Path:	152\1527698.pdf

Bore Hole Information

Bore Hole ID:	10049324	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	429339.70
Code OB Desc:		**North83:**	5010783.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	9
Date Completed:	02/02/1994	**UTMRC Desc:**	unknown UTM
Remarks:		**Location Method:**	lot
Location Method Desc:	Lot centroid		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931067445
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	05
Material 1 Desc:	CLAY
Material 2:	81
Material 2 Desc:	SANDY
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	5.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931067447
Layer:	3
Color:	2
General Color:	GREY
Material 1:	15
Material 1 Desc:	LIMESTONE
Material 2:	78
Material 2 Desc:	MEDIUM-GRAINED
Material 3:	74
Material 3 Desc:	LAYERED
Formation Top Depth:	15.0
Formation End Depth:	63.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931067446
Layer:	2
Color:	2
General Color:	GREY
Material 1:	28
Material 1 Desc:	SAND
Material 2:	11
Material 2 Desc:	GRAVEL
Material 3:	13
Material 3 Desc:	BOULDERS
Formation Top Depth:	5.0
Formation End Depth:	15.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	933112656
Layer:	1
Plug From:	0.0
Plug To:	21.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961527698
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10597894
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930086151
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	

Depth To:	63.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930086150
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	23.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pumping Test Method Desc:	BAILER
Pump Test ID:	991527698
Pump Set At:	
Static Level:	2.0
Final Level After Pumping:	20.0
Recommended Pump Depth:	45.0
Pumping Rate:	20.0
Flowing Rate:	
Recommended Pump Rate:	5.0
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	2
Water State After Test:	CLOUDY
Pumping Test Method:	2
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	No

Draw Down & Recovery

Pump Test Detail ID:	934111323
Test Type:	Draw Down
Test Duration:	15
Test Level:	20.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934655886
Test Type:	Draw Down
Test Duration:	45
Test Level:	20.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934386139
Test Type:	Draw Down
Test Duration:	30
Test Level:	20.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934904257
Test Type:	Draw Down
Test Duration:	60
Test Level:	20.0
Test Level UOM:	ft

Water Details

Water ID:	933487227
Layer:	2
Kind Code:	5
Kind:	Not stated
Water Found Depth:	57.0
Water Found Depth UOM:	ft

Water Details

Water ID:	933487226
Layer:	1
Kind Code:	5
Kind:	Not stated
Water Found Depth:	31.0
Water Found Depth UOM:	ft

8 | ***11 of 21*** | ***WNW/4.2*** | ***107.9 / 2.96*** | ***lot 24 con 9 ON*** | ***WWIS***

Well ID:	1527911	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Domestic	***Data Entry Status:***	
Use 2nd:		***Data Src:***	1
Final Well Status:	Abandoned-Quality	***Date Received:***	05/24/1994
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	142255	***Contractor:***	1558
Tag:		***Form Version:***	1
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	OTTAWA-CARLETON
Elevatn Reliabilty:		***Lot:***	024
Depth to Bedrock:		***Concession:***	09
Well Depth:		***Concession Name:***	CON
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	GOULBOURN TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/152\1527911.pdf

Additional Detail(s) (Map)

Well Completed Date:	03/26/1994
Year Completed:	1994
Depth (m):	40.5384
Latitude:	45.2469921931762
Longitude:	-75.9004074173074
X:	-75.90040725637364
Y:	45.24699218665066
Path:	152\1527911.pdf

Bore Hole Information

Bore Hole ID:	10049466	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:		***East83:***	429339.70
Code OB Desc:		***North83:***	5010783.00
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	03/26/1994	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	lot
Location Method Desc:	Lot centroid		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931067983
Layer:	2
Color:	2
General Color:	GREY
Material 1:	28
Material 1 Desc:	SAND
Material 2:	06
Material 2 Desc:	SILT
Material 3:	13
Material 3 Desc:	BOULDERS
Formation Top Depth:	8.0
Formation End Depth:	17.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931067985
Layer:	4
Color:	2
General Color:	GREY
Material 1:	15
Material 1 Desc:	LIMESTONE
Material 2:	74
Material 2 Desc:	LAYERED
Material 3:	78
Material 3 Desc:	MEDIUM-GRAINED
Formation Top Depth:	20.0
Formation End Depth:	133.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931067984
Layer:	3
Color:	2
General Color:	GREY
Material 1:	14

Material 1 Desc:	HARDPAN
Material 2:	13
Material 2 Desc:	BOULDERS
Material 3:	79
Material 3 Desc:	PACKED
Formation Top Depth:	17.0
Formation End Depth:	20.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931067982
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	28
Material 1 Desc:	SAND
Material 2:	06
Material 2 Desc:	SILT
Material 3:	12
Material 3 Desc:	STONES
Formation Top Depth:	0.0
Formation End Depth:	8.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	933112789
Layer:	1
Plug From:	0.0
Plug To:	23.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961527911
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10598036
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930086411
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	24.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930086412
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	113.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pumping Test Method Desc:	BAILER
Pump Test ID:	991527911
Pump Set At:	
Static Level:	3.0
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	1.0
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	2
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	No

Water Details

Water ID:	933487455
Layer:	1
Kind Code:	5
Kind:	Not stated
Water Found Depth:	78.0
Water Found Depth UOM:	ft

Water Details

Water ID:	933487456
Layer:	2
Kind Code:	5
Kind:	Not stated
Water Found Depth:	96.0
Water Found Depth UOM:	ft

8	***12 of 21***	***WNW/4.2***	***107.9 / 2.96***	***lot 24 con 9 ON***	***WWIS***

Well ID:	1528069	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Domestic	***Data Entry Status:***	
Use 2nd:		***Data Src:***	1
Final Well Status:	Abandoned-Supply	***Date Received:***	08/24/1994
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	142311	***Contractor:***	1558
Tag:		***Form Version:***	1

Constructn Method:		***Owner:***	
Elevation (m):		***County:***	OTTAWA-CARLETON
Elevatn Reliabilty:		***Lot:***	024
Depth to Bedrock:		***Concession:***	09
Well Depth:		***Concession Name:***	CON
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	GOULBOURN TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/152\1528069.pdf

Additional Detail(s) (Map)

Well Completed Date:	06/30/1994
Year Completed:	1994
Depth (m):	27.432
Latitude:	45.2469921931762
Longitude:	-75.9004074173074
X:	-75.90040725637364
Y:	45.24699218665066
Path:	152\1528069.pdf

Bore Hole Information

Bore Hole ID:	10049609	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:		***East83:***	429339.70
Code OB Desc:		***North83:***	5010783.00
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	06/30/1994	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	lot
Location Method Desc:	Lot centroid		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931068469
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	02
Material 1 Desc:	TOPSOIL
Material 2:	81
Material 2 Desc:	SANDY
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	5.0
Formation End Depth UOM:	ft

Overburden and Bedrock

Materials Interval

Formation ID:	931068472
Layer:	4
Color:	2
General Color:	GREY
Material 1:	15
Material 1 Desc:	LIMESTONE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	17.0
Formation End Depth:	90.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931068471
Layer:	3
Color:	2
General Color:	GREY
Material 1:	28
Material 1 Desc:	SAND
Material 2:	11
Material 2 Desc:	GRAVEL
Material 3:	13
Material 3 Desc:	BOULDERS
Formation Top Depth:	12.0
Formation End Depth:	17.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931068470
Layer:	2
Color:	6
General Color:	BROWN
Material 1:	28
Material 1 Desc:	SAND
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	5.0
Formation End Depth:	12.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	933112945
Layer:	1
Plug From:	0.0
Plug To:	21.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961528069
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10598179
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930086686
Layer:	1
Material:	
Open Hole or Material:	
Depth From:	
Depth To:	
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930086687
Layer:	2
Material:	
Open Hole or Material:	
Depth From:	
Depth To:	
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

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8 | ***13 of 21*** | ***WNW/4.2*** | ***107.9 / 2.96*** | ***lot 24 con 9 ON*** | ***WWIS***

Well ID:	1528202	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Domestic	**Data Entry Status:**	
Use 2nd:		**Data Src:**	1
Final Well Status:	Water Supply	**Date Received:**	10/07/1994
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	147733	**Contractor:**	1558
Tag:		**Form Version:**	1
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	OTTAWA-CARLETON
Elevatn Reliabilty:		**Lot:**	024
Depth to Bedrock:		**Concession:**	09
Well Depth:		**Concession Name:**	CON
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	GOULBOURN TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/152\1528202.pdf

Additional Detail(s) (Map)

Well Completed Date:	09/13/1994
Year Completed:	1994
Depth (m):	25.908
Latitude:	45.2469921931762
Longitude:	-75.9004074173074
X:	-75.90040725637364
Y:	45.24699218665066
Path:	152\1528202.pdf

Bore Hole Information

Bore Hole ID:	10049741	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:		***East83:***	429339.70
Code OB Desc:		***North83:***	5010783.00
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	09/13/1994	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	lot
Location Method Desc:	Lot centroid		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931068922
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	05
Material 1 Desc:	CLAY
Material 2:	81
Material 2 Desc:	SANDY
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	6.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931068924
Layer:	3
Color:	2
General Color:	GREY
Material 1:	15
Material 1 Desc:	LIMESTONE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	16.0
Formation End Depth:	85.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931068923
Layer:	2
Color:	2
General Color:	GREY
Material 1:	05
Material 1 Desc:	CLAY
Material 2:	81
Material 2 Desc:	SANDY
Material 3:	91
Material 3 Desc:	WATER-BEARING
Formation Top Depth:	6.0
Formation End Depth:	16.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	933113070
Layer:	1
Plug From:	0.0
Plug To:	21.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961528202
Method Construction Code:	5
Method Construction:	Air Percussion
Other Method Construction:	

Pipe Information

Pipe ID:	10598311
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930086936
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	22.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930086937
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	

Depth To:	85.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pumping Test Method Desc:	BAILER
Pump Test ID:	991528202
Pump Set At:	
Static Level:	2.0
Final Level After Pumping:	67.0
Recommended Pump Depth:	75.0
Pumping Rate:	3.0
Flowing Rate:	
Recommended Pump Rate:	3.0
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	2
Water State After Test:	CLOUDY
Pumping Test Method:	2
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	No

Draw Down & Recovery

Pump Test Detail ID:	934387250
Test Type:	Draw Down
Test Duration:	30
Test Level:	67.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934648187
Test Type:	Draw Down
Test Duration:	45
Test Level:	67.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934112441
Test Type:	Draw Down
Test Duration:	15
Test Level:	67.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934905371
Test Type:	Draw Down
Test Duration:	60
Test Level:	67.0
Test Level UOM:	ft

Water Details

Water ID:	933487808
Layer:	1

Kind Code: 5
Kind: Not stated
Water Found Depth: 48.0
Water Found Depth UOM: ft

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8 | **14 of 21** | **WNW/4.2** | **107.9 / 2.96** | **lot 24 con 9 ON** | **WWIS**

Well ID: 1529417
Construction Date:
Use 1st: Domestic
Use 2nd:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 175643
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: GOULBOURN TOWNSHIP
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 06/27/1997
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1558
Form Version: 1
Owner:
County: OTTAWA-CARLETON
Lot: 024
Concession: 09
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/152\1529417.pdf

Additional Detail(s) (Map)

Well Completed Date: 05/24/1997
Year Completed: 1997
Depth (m): 39.3192
Latitude: 45.2469921931762
Longitude: -75.9004074173074
X: -75.90040725637364
Y: 45.24699218665066
Path: 152\1529417.pdf

Bore Hole Information

Bore Hole ID: 10050953
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 05/24/1997
Remarks:
Location Method Desc: Lot centroid
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83: 429339.70
North83: 5010783.00
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: lot

Overburden and Bedrock

Materials Interval

Formation ID:	931072679
Layer:	4
Color:	2
General Color:	GREY
Material 1:	15
Material 1 Desc:	LIMESTONE
Material 2:	73
Material 2 Desc:	HARD
Material 3:	
Material 3 Desc:	
Formation Top Depth:	8.0
Formation End Depth:	129.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931072678
Layer:	3
Color:	2
General Color:	GREY
Material 1:	15
Material 1 Desc:	LIMESTONE
Material 2:	71
Material 2 Desc:	FRACTURED
Material 3:	
Material 3 Desc:	
Formation Top Depth:	5.0
Formation End Depth:	8.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931072676
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	28
Material 1 Desc:	SAND
Material 2:	01
Material 2 Desc:	FILL
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	2.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931072677
Layer:	2
Color:	6
General Color:	BROWN
Material 1:	28
Material 1 Desc:	SAND
Material 2:	11
Material 2 Desc:	GRAVEL
Material 3:	79
Material 3 Desc:	PACKED

Formation Top Depth:	2.0
Formation End Depth:	5.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	933114431
Layer:	1
Plug From:	20.0
Plug To:	1.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961529417
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10599523
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930088929
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	22.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930088930
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	129.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pumping Test Method Desc:	BAILER
Pump Test ID:	991529417
Pump Set At:	
Static Level:	10.0
Final Level After Pumping:	70.0
Recommended Pump Depth:	120.0
Pumping Rate:	5.0

Flowing Rate:
Recommended Pump Rate: 4.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 2
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934908702
Test Type:
Test Duration: 60
Test Level: 70.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934659192
Test Type:
Test Duration: 45
Test Level: 20.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934115613
Test Type:
Test Duration: 15
Test Level: 37.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934390582
Test Type:
Test Duration: 30
Test Level: 60.0
Test Level UOM: ft

Water Details

Water ID: 933489383
Layer: 2
Kind Code: 5
Kind: Not stated
Water Found Depth: 92.0
Water Found Depth UOM: ft

Water Details

Water ID: 933489382
Layer: 1
Kind Code: 5
Kind: Not stated
Water Found Depth: 26.0
Water Found Depth UOM: ft

Water Details

Water ID:	933489384
Layer:	3
Kind Code:	5
Kind:	Not stated
Water Found Depth:	125.0
Water Found Depth UOM:	ft

8 | ***15 of 21*** | ***WNW/4.2*** | ***107.9 / 2.96*** | ***lot 24 con 9 ON*** | ***WWIS***

Well ID:	1529428	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Domestic	***Data Entry Status:***	
Use 2nd:		***Data Src:***	1
Final Well Status:	Water Supply	***Date Received:***	06/24/1997
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	150477	***Contractor:***	4875
Tag:		***Form Version:***	1
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	OTTAWA-CARLETON
Elevatn Reliabilty:		***Lot:***	024
Depth to Bedrock:		***Concession:***	09
Well Depth:		***Concession Name:***	CON
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	GOULBOURN TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/152\1529428.pdf

Additional Detail(s) (Map)

Well Completed Date:	10/30/1996
Year Completed:	1996
Depth (m):	22.2504
Latitude:	45.2469921931762
Longitude:	-75.9004074173074
X:	-75.90040725637364
Y:	45.24699218665066
Path:	152\1529428.pdf

Bore Hole Information

Bore Hole ID:	10050964	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:		***East83:***	429339.70
Code OB Desc:		***North83:***	5010783.00
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	10/30/1996	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	lot
Location Method Desc:	Lot centroid		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			

Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID:	931072714
Layer:	4
Color:	2
General Color:	GREY
Material 1:	15
Material 1 Desc:	LIMESTONE
Material 2:	17
Material 2 Desc:	SHALE
Material 3:	
Material 3 Desc:	
Formation Top Depth:	20.0
Formation End Depth:	73.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931072711
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	05
Material 1 Desc:	CLAY
Material 2:	81
Material 2 Desc:	SANDY
Material 3:	01
Material 3 Desc:	FILL
Formation Top Depth:	0.0
Formation End Depth:	5.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931072713
Layer:	3
Color:	2
General Color:	GREY
Material 1:	34
Material 1 Desc:	TILL
Material 2:	13
Material 2 Desc:	BOULDERS
Material 3:	
Material 3 Desc:	
Formation Top Depth:	12.0
Formation End Depth:	20.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931072712
Layer:	2
Color:	2
General Color:	GREY
Material 1:	28

Material 1 Desc:	SAND
Material 2:	13
Material 2 Desc:	BOULDERS
Material 3:	
Material 3 Desc:	
Formation Top Depth:	5.0
Formation End Depth:	12.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	933114442
Layer:	1
Plug From:	4.0
Plug To:	30.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961529428
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10599534
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930088950
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	73.0
Casing Diameter:	5.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930088949
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	29.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pumping Test Method Desc:	PUMP
Pump Test ID:	991529428

Pump Set At:	
Static Level:	5.0
Final Level After Pumping:	21.0
Recommended Pump Depth:	60.0
Pumping Rate:	5.0
Flowing Rate:	
Recommended Pump Rate:	5.0
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:	30
Flowing:	No

Draw Down & Recovery

Pump Test Detail ID:	934390592
Test Type:	
Test Duration:	30
Test Level:	20.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934660176
Test Type:	
Test Duration:	45
Test Level:	21.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934115623
Test Type:	
Test Duration:	15
Test Level:	18.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934908712
Test Type:	
Test Duration:	60
Test Level:	21.0
Test Level UOM:	ft

Water Details

Water ID:	933489396
Layer:	1
Kind Code:	5
Kind:	Not stated
Water Found Depth:	40.0
Water Found Depth UOM:	ft

Water Details

Water ID:	933489397
Layer:	2

Kind Code: 5
Kind: Not stated
Water Found Depth: 60.0
Water Found Depth UOM: ft

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8 | **16 of 21** | **WNW/4.2** | **107.9 / 2.96** | **lot 24 con 9 ON** | **WWIS**

Well ID: 1529429
Construction Date:
Use 1st: Domestic
Use 2nd:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 150476
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: GOULBOURN TOWNSHIP
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 06/24/1997
Selected Flag: TRUE
Abandonment Rec:
Contractor: 4875
Form Version: 1
Owner:
County: OTTAWA-CARLETON
Lot: 024
Concession: 09
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/152\1529429.pdf

Additional Detail(s) (Map)

Well Completed Date: 10/25/1996
Year Completed: 1996
Depth (m): 21.6408
Latitude: 45.2469921931762
Longitude: -75.9004074173074
X: -75.90040725637364
Y: 45.24699218665066
Path: 152\1529429.pdf

Bore Hole Information

Bore Hole ID: 10050965
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 10/25/1996
Remarks:
Location Method Desc: Lot centroid
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83: 429339.70
North83: 5010783.00
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: lot

Overburden and Bedrock

Materials Interval

Formation ID:	931072715
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	28
Material 1 Desc:	SAND
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	7.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931072716
Layer:	2
Color:	2
General Color:	GREY
Material 1:	28
Material 1 Desc:	SAND
Material 2:	13
Material 2 Desc:	BOULDERS
Material 3:	
Material 3 Desc:	
Formation Top Depth:	7.0
Formation End Depth:	14.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931072718
Layer:	4
Color:	2
General Color:	GREY
Material 1:	15
Material 1 Desc:	LIMESTONE
Material 2:	17
Material 2 Desc:	SHALE
Material 3:	71
Material 3 Desc:	FRACTURED
Formation Top Depth:	21.0
Formation End Depth:	71.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931072717
Layer:	3
Color:	2
General Color:	GREY
Material 1:	34
Material 1 Desc:	TILL
Material 2:	13
Material 2 Desc:	BOULDERS
Material 3:	
Material 3 Desc:	

Formation Top Depth:	14.0
Formation End Depth:	21.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	933114443
Layer:	1
Plug From:	4.0
Plug To:	31.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961529429
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10599535
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930088951
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	31.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930088952
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	71.0
Casing Diameter:	5.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pumping Test Method Desc:	PUMP
Pump Test ID:	991529429
Pump Set At:	
Static Level:	2.0
Final Level After Pumping:	14.0
Recommended Pump Depth:	60.0
Pumping Rate:	5.0

Flowing Rate:	
Recommended Pump Rate:	5.0
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	2
Water State After Test:	CLOUDY
Pumping Test Method:	1
Pumping Duration HR:	2
Pumping Duration MIN:	0
Flowing:	No

Draw Down & Recovery

Pump Test Detail ID:	934660177
Test Type:	
Test Duration:	45
Test Level:	14.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934908713
Test Type:	
Test Duration:	60
Test Level:	14.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934390593
Test Type:	
Test Duration:	30
Test Level:	13.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934115624
Test Type:	
Test Duration:	15
Test Level:	12.0
Test Level UOM:	ft

Water Details

Water ID:	933489398
Layer:	1
Kind Code:	5
Kind:	Not stated
Water Found Depth:	58.0
Water Found Depth UOM:	ft

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
8	17 of 21	WNW/4.2	107.9 / 2.96	lot 24 con 9 ON	WWIS

Well ID:	1529448	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Domestic	***Data Entry Status:***	
Use 2nd:		***Data Src:***	1
Final Well Status:	Water Supply	***Date Received:***	06/24/1997
Water Type:		***Selected Flag:***	TRUE

Casing Material:		**Abandonment Rec:**	
Audit No:	150478	**Contractor:**	4875
Tag:		**Form Version:**	1
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	OTTAWA-CARLETON
Elevatn Reliabilty:		**Lot:**	024
Depth to Bedrock:		**Concession:**	09
Well Depth:		**Concession Name:**	CON
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	GOULBOURN TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/152\1529448.pdf

Additional Detail(s) (Map)

Well Completed Date:	01/10/1997
Year Completed:	1997
Depth (m):	46.3296
Latitude:	45.2469921931762
Longitude:	-75.9004074173074
X:	-75.90040725637364
Y:	45.24699218665066
Path:	152\1529448.pdf

Bore Hole Information

Bore Hole ID:	10050984	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	429339.70
Code OB Desc:		**North83:**	5010783.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	9
Date Completed:	01/10/1997	**UTMRC Desc:**	unknown UTM
Remarks:		**Location Method:**	lot
Location Method Desc:	Lot centroid		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931072779
Layer:	2
Color:	6
General Color:	BROWN
Material 1:	34
Material 1 Desc:	TILL
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	8.0
Formation End Depth:	10.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931072781
Layer:	4
Color:	7
General Color:	RED
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	120.0
Formation End Depth:	152.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931072780
Layer:	3
Color:	2
General Color:	GREY
Material 1:	15
Material 1 Desc:	LIMESTONE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	10.0
Formation End Depth:	120.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931072778
Layer:	1
Color:	2
General Color:	GREY
Material 1:	28
Material 1 Desc:	SAND
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	8.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	933114462
Layer:	1
Plug From:	3.0
Plug To:	20.0
Plug Depth UOM:	ft

Method of Construction & Well

Use

Method Construction ID:	961529448
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10599554
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930088987
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	20.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930088988
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	152.0
Casing Diameter:	5.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pumping Test Method Desc:	BAILER
Pump Test ID:	991529448
Pump Set At:	
Static Level:	28.0
Final Level After Pumping:	41.0
Recommended Pump Depth:	120.0
Pumping Rate:	6.0
Flowing Rate:	
Recommended Pump Rate:	5.0
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	2
Water State After Test:	CLOUDY
Pumping Test Method:	2
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	No

Draw Down & Recovery

Pump Test Detail ID:	934908732
Test Type:	Draw Down

Test Duration:	60
Test Level:	41.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934390612
Test Type:	Draw Down
Test Duration:	30
Test Level:	37.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934660196
Test Type:	Draw Down
Test Duration:	45
Test Level:	39.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934115643
Test Type:	Draw Down
Test Duration:	15
Test Level:	35.0
Test Level UOM:	ft

Water Details

Water ID:	933489421
Layer:	2
Kind Code:	5
Kind:	Not stated
Water Found Depth:	108.0
Water Found Depth UOM:	ft

Water Details

Water ID:	933489422
Layer:	3
Kind Code:	5
Kind:	Not stated
Water Found Depth:	148.0
Water Found Depth UOM:	ft

Water Details

Water ID:	933489420
Layer:	1
Kind Code:	5
Kind:	Not stated
Water Found Depth:	45.0
Water Found Depth UOM:	ft

8	***18 of 21***	***WNW/4.2***	***107.9 / 2.96***	***lot 24 con 9 ON***	***WWIS***

Well ID:	1529457	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	

Use 1st:	Domestic	**Data Entry Status:**	
Use 2nd:		**Data Src:**	1
Final Well Status:	Water Supply	**Date Received:**	07/15/1997
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	175650	**Contractor:**	1558
Tag:		**Form Version:**	1
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	OTTAWA-CARLETON
Elevatn Reliabilty:		**Lot:**	024
Depth to Bedrock:		**Concession:**	09
Well Depth:		**Concession Name:**	CON
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	

Municipality: GOULBOURN TOWNSHIP
Site Info:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/152\1529457.pdf

Additional Detail(s) (Map)

Well Completed Date: 06/03/1997
Year Completed: 1997
Depth (m): 47.244
Latitude: 45.2469921931762
Longitude: -75.9004074173074
X: -75.90040725637364
Y: 45.24699218665066
Path: 152\1529457.pdf

Bore Hole Information

Bore Hole ID:	10050993	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	429339.70
Code OB Desc:		**North83:**	5010783.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	9
Date Completed:	06/03/1997	**UTMRC Desc:**	unknown UTM
Remarks:		**Location Method:**	lot

Location Method Desc: Lot centroid
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 931072807
Layer: 1
Color: 6
General Color: BROWN
Material 1: 28
Material 1 Desc: SAND
Material 2: 01
Material 2 Desc: FILL
Material 3:

Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 2.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931072808
Layer: 2
Color: 6
General Color: BROWN
Material 1: 28
Material 1 Desc: SAND
Material 2: 11
Material 2 Desc: GRAVEL
Material 3: 79
Material 3 Desc: PACKED
Formation Top Depth: 2.0
Formation End Depth: 5.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931072811
Layer: 5
Color: 2
General Color: GREY
Material 1: 15
Material 1 Desc: LIMESTONE
Material 2: 73
Material 2 Desc: HARD
Material 3:
Material 3 Desc:
Formation Top Depth: 139.0
Formation End Depth: 155.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931072810
Layer: 4
Color: 6
General Color: BROWN
Material 1: 15
Material 1 Desc: LIMESTONE
Material 2: 78
Material 2 Desc: MEDIUM-GRAINED
Material 3:
Material 3 Desc:
Formation Top Depth: 110.0
Formation End Depth: 139.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931072809
Layer: 3
Color: 2

General Color:	GREY
Material 1:	15
Material 1 Desc:	LIMESTONE
Material 2:	73
Material 2 Desc:	HARD
Material 3:	
Material 3 Desc:	
Formation Top Depth:	5.0
Formation End Depth:	110.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	933114470
Layer:	1
Plug From:	20.0
Plug To:	0.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961529457
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10599563
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930089004
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	25.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930089005
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	155.0
Casing Diameter:	5.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pumping Test Method Desc:	BAILER
Pump Test ID:	991529457
Pump Set At:	
Static Level:	27.0
Final Level After Pumping:	80.0
Recommended Pump Depth:	130.0
Pumping Rate:	6.0
Flowing Rate:	
Recommended Pump Rate:	5.0
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	2
Water State After Test:	CLOUDY
Pumping Test Method:	2
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	No

Draw Down & Recovery

Pump Test Detail ID:	934390621
Test Type:	Draw Down
Test Duration:	30
Test Level:	67.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934116069
Test Type:	Draw Down
Test Duration:	15
Test Level:	58.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934660205
Test Type:	Draw Down
Test Duration:	45
Test Level:	78.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934908741
Test Type:	Draw Down
Test Duration:	60
Test Level:	80.0
Test Level UOM:	ft

Water Details

Water ID:	933489432
Layer:	2
Kind Code:	5
Kind:	Not stated
Water Found Depth:	143.0
Water Found Depth UOM:	ft

Water Details

Water ID:	933489433
Layer:	3
Kind Code:	5
Kind:	Not stated
Water Found Depth:	152.0
Water Found Depth UOM:	ft

Water Details

Water ID:	933489431
Layer:	1
Kind Code:	5
Kind:	Not stated
Water Found Depth:	92.0
Water Found Depth UOM:	ft

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8 | ***19 of 21*** | ***WNW/4.2*** | ***107.9 / 2.96*** | ***lot 24 con 9 ON*** | ***WWIS***

Well ID:	1529489	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Domestic	**Data Entry Status:**	
Use 2nd:		**Data Src:**	1
Final Well Status:	Water Supply	**Date Received:**	08/14/1997
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	175680	**Contractor:**	1558
Tag:		**Form Version:**	1
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	OTTAWA-CARLETON
Elevatn Reliabilty:		**Lot:**	024
Depth to Bedrock:		**Concession:**	09
Well Depth:		**Concession Name:**	CON
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	GOULBOURN TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/152\1529489.pdf

Additional Detail(s) (Map)

Well Completed Date:	07/23/1997
Year Completed:	1997
Depth (m):	39.624
Latitude:	45.2469921931762
Longitude:	-75.9004074173074
X:	-75.90040725637364
Y:	45.24699218665066
Path:	152\1529489.pdf

Bore Hole Information

Bore Hole ID:	10051024	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	429339.70
Code OB Desc:		**North83:**	5010783.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	9

Date Completed: 07/23/1997
Remarks:
Location Method Desc: Lot centroid
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:
UTMRC Desc: unknown UTM
Location Method: lot

Overburden and Bedrock Materials Interval

Formation ID: 931072912
Layer: 2
Color: 6
General Color: BROWN
Material 1: 02
Material 1 Desc: TOPSOIL
Material 2: 77
Material 2 Desc: LOOSE
Material 3:
Material 3 Desc:
Formation Top Depth: 4.0
Formation End Depth: 5.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931072913
Layer: 3
Color: 2
General Color: GREY
Material 1: 15
Material 1 Desc: LIMESTONE
Material 2: 73
Material 2 Desc: HARD
Material 3:
Material 3 Desc:
Formation Top Depth: 5.0
Formation End Depth: 48.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931072911
Layer: 1
Color: 6
General Color: BROWN
Material 1: 28
Material 1 Desc: SAND
Material 2: 11
Material 2 Desc: GRAVEL
Material 3: 01
Material 3 Desc: FILL
Formation Top Depth: 0.0
Formation End Depth: 4.0
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID:	931072914
Layer:	4
Color:	2
General Color:	GREY
Material 1:	15
Material 1 Desc:	LIMESTONE
Material 2:	74
Material 2 Desc:	LAYERED
Material 3:	78
Material 3 Desc:	MEDIUM-GRAINED
Formation Top Depth:	48.0
Formation End Depth:	130.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	933114501
Layer:	1
Plug From:	20.0
Plug To:	0.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961529489
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10599594
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930089060
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	20.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930089061
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	130.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch

Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: BAILER
Pump Test ID: 991529489
Pump Set At:
Static Level: 18.0
Final Level After Pumping: 41.0
Recommended Pump Depth: 100.0
Pumping Rate: 10.0
Flowing Rate:
Recommended Pump Rate: 5.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method: 2
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934391069
Test Type: Draw Down
Test Duration: 30
Test Level: 41.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934116097
Test Type: Draw Down
Test Duration: 15
Test Level: 39.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934660233
Test Type: Draw Down
Test Duration: 45
Test Level: 41.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934908769
Test Type: Draw Down
Test Duration: 60
Test Level: 41.0
Test Level UOM: ft

Water Details

Water ID: 933489468
Layer: 2
Kind Code: 5
Kind: Not stated
Water Found Depth: 125.0

Water Found Depth UOM: ft

Water Details

Water ID: 933489467
Layer: 1
Kind Code: 5
Kind: Not stated
Water Found Depth: 90.0
Water Found Depth UOM: ft

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8 | ***20 of 21*** | ***WNW/4.2*** | ***107.9 / 2.96*** | ***lot 24 con 9 ON*** | ***WWIS***

Well ID:	1529569	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Domestic	***Data Entry Status:***	
Use 2nd:		***Data Src:***	1
Final Well Status:	Water Supply	***Date Received:***	09/15/1997
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	175696	***Contractor:***	1558
Tag:		***Form Version:***	1
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	OTTAWA-CARLETON
Elevatn Reliabilty:		***Lot:***	024
Depth to Bedrock:		***Concession:***	09
Well Depth:		***Concession Name:***	CON
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	GOULBOURN TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/152\1529569.pdf

Additional Detail(s) (Map)

Well Completed Date: 08/07/1997
Year Completed: 1997
Depth (m): 53.34
Latitude: 45.2469921931762
Longitude: -75.9004074173074
X: -75.90040725637364
Y: 45.24699218665066
Path: 152\1529569.pdf

Bore Hole Information

Bore Hole ID:	10051104	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:		***East83:***	429339.70
Code OB Desc:		***North83:***	5010783.00
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	08/07/1997	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	lot
Location Method Desc:	Lot centroid		
Elevrc Desc:			
Location Source Date:			

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

Overburden and Bedrock Materials Interval

Formation ID: 931073158
Layer: 3
Color: 2
General Color: GREY
Material 1: 15
Material 1 Desc: LIMESTONE
Material 2: 73
Material 2 Desc: HARD
Material 3:
Material 3 Desc:
Formation Top Depth: 7.0
Formation End Depth: 47.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931073157
Layer: 2
Color: 6
General Color: BROWN
Material 1: 02
Material 1 Desc: TOPSOIL
Material 2: 11
Material 2 Desc: GRAVEL
Material 3: 79
Material 3 Desc: PACKED
Formation Top Depth: 2.0
Formation End Depth: 7.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931073159
Layer: 4
Color: 2
General Color: GREY
Material 1: 15
Material 1 Desc: LIMESTONE
Material 2: 74
Material 2 Desc: LAYERED
Material 3: 78
Material 3 Desc: MEDIUM-GRAINED
Formation Top Depth: 47.0
Formation End Depth: 175.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931073156
Layer: 1
Color: 6

General Color:	BROWN
Material 1:	28
Material 1 Desc:	SAND
Material 2:	01
Material 2 Desc:	FILL
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	2.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	933114597
Layer:	1
Plug From:	20.0
Plug To:	0.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961529569
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10599674
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930089204
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	175.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930089203
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	22.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pumping Test Method Desc:	BAILER
Pump Test ID:	991529569
Pump Set At:	
Static Level:	37.0
Final Level After Pumping:	55.0
Recommended Pump Depth:	100.0
Pumping Rate:	10.0
Flowing Rate:	
Recommended Pump Rate:	5.0
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	2
Water State After Test:	CLOUDY
Pumping Test Method:	2
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	No

Draw Down & Recovery

Pump Test Detail ID:	934391113
Test Type:	Draw Down
Test Duration:	30
Test Level:	53.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934908813
Test Type:	Draw Down
Test Duration:	60
Test Level:	55.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934116140
Test Type:	Draw Down
Test Duration:	15
Test Level:	44.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934660276
Test Type:	Draw Down
Test Duration:	45
Test Level:	55.0
Test Level UOM:	ft

Water Details

Water ID:	933489570
Layer:	1
Kind Code:	5
Kind:	Not stated
Water Found Depth:	96.0
Water Found Depth UOM:	ft

Water Details

Water ID:	933489572
Layer:	3
Kind Code:	5
Kind:	Not stated
Water Found Depth:	169.0
Water Found Depth UOM:	ft

Water Details

Water ID:	933489571
Layer:	2
Kind Code:	5
Kind:	Not stated
Water Found Depth:	142.0
Water Found Depth UOM:	ft

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8 | ***21 of 21*** | ***WNW/4.2*** | ***107.9 / 2.96*** | ***lot 24 con 9 ON*** | ***WWIS***

Well ID:	1529791	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Domestic	**Data Entry Status:**	
Use 2nd:		**Data Src:**	1
Final Well Status:	Water Supply	**Date Received:**	01/08/1998
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	182762	**Contractor:**	1558
Tag:		**Form Version:**	1
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	OTTAWA-CARLETON
Elevatn Reliabilty:		**Lot:**	024
Depth to Bedrock:		**Concession:**	09
Well Depth:		**Concession Name:**	CON
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	GOULBOURN TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/152\1529791.pdf

Additional Detail(s) (Map)

Well Completed Date:	12/04/1997
Year Completed:	1997
Depth (m):	44.196
Latitude:	45.2469921931762
Longitude:	-75.9004074173074
X:	-75.90040725637364
Y:	45.24699218665066
Path:	152\1529791.pdf

Bore Hole Information

Bore Hole ID:	10051326	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	429339.70
Code OB Desc:		**North83:**	5010783.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	9

Date Completed: 12/04/1997
Remarks:
Location Method Desc: Lot centroid
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

UTMRC Desc: unknown UTM
Location Method: lot

Overburden and Bedrock Materials Interval

Formation ID: 931073849
Layer: 4
Color: 6
General Color: BROWN
Material 1: 15
Material 1 Desc: LIMESTONE
Material 2: 85
Material 2 Desc: SOFT
Material 3:
Material 3 Desc:
Formation Top Depth: 132.0
Formation End Depth: 145.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931073846
Layer: 1
Color: 6
General Color: BROWN
Material 1: 28
Material 1 Desc: SAND
Material 2: 01
Material 2 Desc: FILL
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 5.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931073847
Layer: 2
Color: 6
General Color: BROWN
Material 1: 14
Material 1 Desc: HARDPAN
Material 2: 13
Material 2 Desc: BOULDERS
Material 3: 79
Material 3 Desc: PACKED
Formation Top Depth: 5.0
Formation End Depth: 11.0
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID:	931073848
Layer:	3
Color:	2
General Color:	GREY
Material 1:	15
Material 1 Desc:	LIMESTONE
Material 2:	73
Material 2 Desc:	HARD
Material 3:	
Material 3 Desc:	
Formation Top Depth:	11.0
Formation End Depth:	132.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	933114857
Layer:	1
Plug From:	20.0
Plug To:	0.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961529791
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10599896
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930089607
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	22.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930089608
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	145.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch

Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: BAILER
Pump Test ID: 991529791
Pump Set At:
Static Level: 12.0
Final Level After Pumping: 60.0
Recommended Pump Depth: 100.0
Pumping Rate: 10.0
Flowing Rate:
Recommended Pump Rate: 5.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 2
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934391702
Test Type: Draw Down
Test Duration: 30
Test Level: 47.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934909820
Test Type: Draw Down
Test Duration: 60
Test Level: 60.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934660864
Test Type: Draw Down
Test Duration: 45
Test Level: 60.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934116728
Test Type: Draw Down
Test Duration: 15
Test Level: 34.0
Test Level UOM: ft

Water Details

Water ID: 933489849
Layer: 2
Kind Code: 5
Kind: Not stated
Water Found Depth: 126.0

Water Found Depth UOM: ft

Water Details

Water ID: 933489850
Layer: 3
Kind Code: 5
Kind: Not stated
Water Found Depth: 142.0
Water Found Depth UOM: ft

Water Details

Water ID: 933489848
Layer: 1
Kind Code: 5
Kind: Not stated
Water Found Depth: 65.0
Water Found Depth UOM: ft

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9 | ***1 of 1*** | ***WNW/6.4*** | ***107.9 / 2.96*** | ***lot 24 con 9 ON*** | ***WWIS***

Well ID: 1533027
Construction Date:
Use 1st: Domestic
Use 2nd:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 238194
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: GOULBOURN TOWNSHIP
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 08/13/2002
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1558
Form Version: 1
Owner:
County: OTTAWA-CARLETON
Lot: 024
Concession: 09
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/153\1533027.pdf

Additional Detail(s) (Map)

Well Completed Date: 07/02/2002
Year Completed: 2002
Depth (m): 36.576
Latitude: 45.2469918415808
Longitude: -75.9004520114464
X: -75.90045184962793
Y: 45.24699183563697
Path: 153\1533027.pdf

Bore Hole Information

Bore Hole ID: 10529774
DP2BR:
Spatial Status:

Elevation:
Elevrc:
Zone: 18

Code OB:		**East83:**	429336.20
Code OB Desc:		**North83:**	5010783.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	9
Date Completed:	07/02/2002	**UTMRC Desc:**	unknown UTM
Remarks:		**Location Method:**	lot
Location Method Desc:	Lot centroid		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	932879954
Layer:	1
Color:	
General Color:	
Material 1:	00
Material 1 Desc:	UNKNOWN TYPE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	6.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932879955
Layer:	2
Color:	
General Color:	
Material 1:	00
Material 1 Desc:	UNKNOWN TYPE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	6.0
Formation End Depth:	120.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961533027
Method Construction Code:	4
Method Construction:	Rotary (Air)
Other Method Construction:	

Pipe Information

Pipe ID:	11078344
Casing No:	1
Comment:	
Alt Name:	

Results of Well Yield Testing

Pumping Test Method Desc:	PUMP
Pump Test ID:	991533027
Pump Set At:	
Static Level:	6.0
Final Level After Pumping:	20.0
Recommended Pump Depth:	50.0
Pumping Rate:	20.0
Flowing Rate:	
Recommended Pump Rate:	5.0
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
Flowing:	No

Draw Down & Recovery

Pump Test Detail ID:	934663131
Test Type:	Draw Down
Test Duration:	45
Test Level:	90.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934118997
Test Type:	Draw Down
Test Duration:	15
Test Level:	20.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934402194
Test Type:	Draw Down
Test Duration:	30
Test Level:	60.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934911811
Test Type:	Draw Down
Test Duration:	60
Test Level:	115.0
Test Level UOM:	ft

10	***1 of 1***	***WNW/7.1***	***107.9 / 2.96***	***lot 24 con 9 ON***	***WWIS***

Well ID:	1531200	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Domestic	***Data Entry Status:***	
Use 2nd:		***Data Src:***	1
Final Well Status:	Water Supply	***Date Received:***	07/17/2000

Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	208624	**Contractor:**	1558
Tag:		**Form Version:**	1
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	OTTAWA-CARLETON
Elevatn Reliabilty:		**Lot:**	024
Depth to Bedrock:		**Concession:**	09
Well Depth:		**Concession Name:**	CON
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	GOULBOURN TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/153\1531200.pdf

Additional Detail(s) (Map)

Well Completed Date:	06/28/2000
Year Completed:	2000
Depth (m):	26.8224
Latitude:	45.2470008420034
Longitude:	-75.9004521536573
X:	-75.90045199335756
Y:	45.2470008355488
Path:	153\1531200.pdf

Bore Hole Information

Bore Hole ID:	10052734	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	429336.20
Code OB Desc:		**North83:**	5010784.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	9
Date Completed:	06/28/2000	**UTMRC Desc:**	unknown UTM
Remarks:		**Location Method:**	lot
Location Method Desc:	Lot centroid		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931077812
Layer:	2
Color:	2
General Color:	GREY
Material 1:	15
Material 1 Desc:	LIMESTONE
Material 2:	85
Material 2 Desc:	SOFT
Material 3:	
Material 3 Desc:	
Formation Top Depth:	10.0
Formation End Depth:	88.0

Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931077811
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	02
Material 1 Desc:	TOPSOIL
Material 2:	26
Material 2 Desc:	ROCK
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	10.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	933116374
Layer:	1
Plug From:	0.0
Plug To:	21.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961531200
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10601304
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930092196
Layer:	3
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930092194
Layer:	1
Material:	1
Open Hole or Material:	STEEL

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

Construction Record - Casing

Casing ID: 930092195
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To:
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: BAILER
Pump Test ID: 991531200
Pump Set At:
Static Level: 8.0
Final Level After Pumping: 16.0
Recommended Pump Depth: 40.0
Pumping Rate: 8.0
Flowing Rate:
Recommended Pump Rate: 5.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 2
Pumping Duration HR: 1
Pumping Duration MIN:
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934665299
Test Type: Draw Down
Test Duration: 45
Test Level: 17.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934396573
Test Type: Draw Down
Test Duration: 30
Test Level: 18.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934913844
Test Type: Draw Down
Test Duration: 60
Test Level: 16.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID:	934121162
Test Type:	Draw Down
Test Duration:	15
Test Level:	18.0
Test Level UOM:	ft

Water Details

Water ID:	933491563
Layer:	1
Kind Code:	5
Kind:	Not stated
Water Found Depth:	82.0
Water Found Depth UOM:	ft

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11 | ***1 of 1*** | ***E/15.5*** | ***101.9 / -3.02*** | ***FLEWELLYN STITTSVILLE ON*** | ***WWIS***

Well ID:	7317356	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Test Hole	***Data Entry Status:***	
Use 2nd:	Monitoring	***Data Src:***	
Final Well Status:	Test Hole	***Date Received:***	08/20/2018
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	Z277801	***Contractor:***	7241
Tag:	A215716	***Form Version:***	7
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	OTTAWA-CARLETON
Elevatn Reliabilty:		***Lot:***	
Depth to Bedrock:		***Concession:***	
Well Depth:		***Concession Name:***	
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	STITTSVILLE VILLAGE (GOULBOURN)		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/731\7317356.pdf

Additional Detail(s) (Map)

Well Completed Date:	04/03/2018
Year Completed:	2018
Depth (m):	10.06
Latitude:	45.244991237349
Longitude:	-75.8927138461235
X:	-75.8927136845486
Y:	45.2449912302072
Path:	731\7317356.pdf

Bore Hole Information

Bore Hole ID:	1007262510	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:		***East83:***	429941.00
Code OB Desc:		***North83:***	5010554.00
Open Hole:		***Org CS:***	UTM83

Cluster Kind:
Date Completed: 04/03/2018
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1007949490
Layer: 3
Color: 2
General Color: GREY
Material 1: 06
Material 1 Desc: SILT
Material 2: 12
Material 2 Desc: STONES
Material 3: 66
Material 3 Desc: DENSE
Formation Top Depth: 2.440000057220459
Formation End Depth: 4.570000171661377
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1007949488
Layer: 1
Color: 6
General Color: BROWN
Material 1: 02
Material 1 Desc: TOPSOIL
Material 2:
Material 2 Desc:
Material 3: 85
Material 3 Desc: SOFT
Formation Top Depth: 0.0
Formation End Depth: 0.3100000023841858
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1007949491
Layer: 4
Color: 2
General Color: GREY
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3: 74
Material 3 Desc: LAYERED
Formation Top Depth: 4.570000171661377
Formation End Depth: 10.0600004196167
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID:	1007949489
Layer:	2
Color:	6
General Color:	BROWN
Material 1:	28
Material 1 Desc:	SAND
Material 2:	06
Material 2 Desc:	SILT
Material 3:	85
Material 3 Desc:	SOFT
Formation Top Depth:	0.3100000023841858
Formation End Depth:	2.440000057220459
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1007950814
Layer:	3
Plug From:	5.489999771118164
Plug To:	10.0600004196167
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1007950812
Layer:	1
Plug From:	0.0
Plug To:	0.3100000023841858
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1007950811
Layer:	1
Plug From:	
Plug To:	
Plug Depth UOM:	

Annular Space/Abandonment Sealing Record

Plug ID:	1007950813
Layer:	2
Plug From:	0.3100000023841858
Plug To:	5.489999771118164
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1007951970
Method Construction Code:	5
Method Construction:	Air Percussion
Other Method Construction:	

Pipe Information

Pipe ID: 1007948553
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1007952402
Layer: 1
Material: 7
Open Hole or Material: OTHER
Depth From:
Depth To: 7.010000228881836
Casing Diameter: 5.199999809265137
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1007952854
Layer: 1
Slot: 10
Screen Top Depth: 7.010000228881836
Screen End Depth: 10.0600004196167
Screen Material: 7
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 6.03000020980835

Results of Well Yield Testing

Pumping Test Method Desc:
Pump Test ID: 1007953456
Pump Set At:
Static Level:
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: m
Rate UOM: LPM
Water State After Test Code:
Water State After Test:
Pumping Test Method: 0
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

Water Details

Water ID: 1007953050
Layer: 1
Kind Code:
Kind:
Water Found Depth:
Water Found Depth UOM:

Hole Diameter

Hole ID: 1007951417
Diameter: 11.430000305175781
Depth From: 0.0
Depth To: 6.099999904632568
Hole Depth UOM: m
Hole Diameter UOM: cm

Hole Diameter

Hole ID: 1007951418
Diameter: 7.619999885559082
Depth From: 6.099999904632568
Depth To: 10.0600004196167
Hole Depth UOM: m
Hole Diameter UOM: cm

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12 | ***1 of 1*** | ***E/17.2*** | ***100.1 / -4.86*** | ***lot 25 con 9 ON*** | ***WWIS***

Well ID:	1527413	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Domestic	**Data Entry Status:**	
Use 2nd:		**Data Src:**	1
Final Well Status:	Test Hole	**Date Received:**	09/10/1993
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	76769	**Contractor:**	3644
Tag:		**Form Version:**	1
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	OTTAWA-CARLETON
Elevatn Reliabilty:		**Lot:**	025
Depth to Bedrock:		**Concession:**	09
Well Depth:		**Concession Name:**	CON
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	GOULBOURN TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/152\1527413.pdf

Additional Detail(s) (Map)

Well Completed Date: 08/03/1993
Year Completed: 1993
Depth (m): 43.5864
Latitude: 45.2463961067799
Longitude: -75.8891717368211
X: -75.88917157633308
Y: 45.24639610044037
Path: 152\1527413.pdf

Bore Hole Information

Bore Hole ID:	10049062	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	430220.70
Code OB Desc:		**North83:**	5010707.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5

Date Completed: 08/03/1993
Remarks:
Location Method Desc: from gis
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:
UTMRC Desc: margin of error : 100 m - 100 m
Location Method: gis

Overburden and Bedrock Materials Interval

Formation ID: 931066592
Layer: 2
Color: 2
General Color: GREY
Material 1: 15
Material 1 Desc: LIMESTONE
Material 2: 81
Material 2 Desc: SANDY
Material 3:
Material 3 Desc:
Formation Top Depth: 13.0
Formation End Depth: 143.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931066591
Layer: 1
Color: 2
General Color: GREY
Material 1: 15
Material 1 Desc: LIMESTONE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 13.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933112443
Layer: 1
Plug From: 0.0
Plug To: 22.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961527413
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10597632
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930085673
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To:
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930085672
Layer: 1
Material:
Open Hole or Material:
Depth From:
Depth To: 22.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 991527413
Pump Set At:
Static Level: 7.0
Final Level After Pumping: 60.0
Recommended Pump Depth: 60.0
Pumping Rate: 20.0
Flowing Rate:
Recommended Pump Rate: 10.0
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
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934903183
Test Type: Recovery
Test Duration: 60
Test Level: 7.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934385483
Test Type: Recovery

Test Duration:	30
Test Level:	7.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934654808
Test Type:	Recovery
Test Duration:	45
Test Level:	7.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934110667
Test Type:	Recovery
Test Duration:	15
Test Level:	7.0
Test Level UOM:	ft

Water Details

Water ID:	933486859
Layer:	1
Kind Code:	5
Kind:	Not stated
Water Found Depth:	138.0
Water Found Depth UOM:	ft

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13 | ***1 of 3*** | ***NNE/20.9*** | ***104.8 / -0.13*** | ***lot 25 con 9 ON*** | ***WWIS***

Well ID:	1530043	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Domestic	**Data Entry Status:**	
Use 2nd:		**Data Src:**	1
Final Well Status:	Water Supply	**Date Received:**	07/22/1998
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	183897	**Contractor:**	1558
Tag:		**Form Version:**	1
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	OTTAWA-CARLETON
Elevatn Reliabilty:		**Lot:**	025
Depth to Bedrock:		**Concession:**	09
Well Depth:		**Concession Name:**	CON
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	GOULBOURN TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/153\1530043.pdf

Additional Detail(s) (Map)

Well Completed Date:	06/29/1998
Year Completed:	1998
Depth (m):	22.2504
Latitude:	45.2505938221341
Longitude:	-75.8945513083474

X: -75.89455114695551
Y: 45.25059381504941
Path: 153\1530043.pdf

Bore Hole Information

Bore Hole ID: 10051578
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 06/29/1998
Remarks:
Location Method Desc: Lot centroid
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83: 429803.70
North83: 5011178.00
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: lot

Overburden and Bedrock Materials Interval

Formation ID: 931074307
Layer: 3
Color: 2
General Color: GREY
Material 1: 05
Material 1 Desc: CLAY
Material 2: 81
Material 2 Desc: SANDY
Material 3: 12
Material 3 Desc: STONES
Formation Top Depth: 12.0
Formation End Depth: 18.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931074308
Layer: 4
Color: 2
General Color: GREY
Material 1: 15
Material 1 Desc: LIMESTONE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 18.0
Formation End Depth: 73.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931074305
Layer: 1

Color:	6
General Color:	BROWN
Material 1:	28
Material 1 Desc:	SAND
Material 2:	68
Material 2 Desc:	DRY
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	6.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931074306
Layer:	2
Color:	6
General Color:	BROWN
Material 1:	05
Material 1 Desc:	CLAY
Material 2:	81
Material 2 Desc:	SANDY
Material 3:	79
Material 3 Desc:	PACKED
Formation Top Depth:	6.0
Formation End Depth:	12.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	933115160
Layer:	1
Plug From:	21.0
Plug To:	6.0
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	933115161
Layer:	2
Plug From:	6.0
Plug To:	3.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961530043
Method Construction Code:	5
Method Construction:	Air Percussion
Other Method Construction:	

Pipe Information

Pipe ID:	10600148
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930089872
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	22.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930089873
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	73.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pumping Test Method Desc:	PUMP
Pump Test ID:	991530043
Pump Set At:	
Static Level:	10.0
Final Level After Pumping:	15.0
Recommended Pump Depth:	30.0
Pumping Rate:	20.0
Flowing Rate:	
Recommended Pump Rate:	5.0
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
Flowing:	No

Draw Down & Recovery

Pump Test Detail ID:	934117258
Test Type:	
Test Duration:	15
Test Level:	12.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934909931
Test Type:	
Test Duration:	60
Test Level:	15.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID: 934392235
Test Type:
Test Duration: 30
Test Level: 13.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934661393
Test Type:
Test Duration: 45
Test Level: 15.0
Test Level UOM: ft

Water Details

Water ID: 933490068
Layer: 1
Kind Code: 5
Kind: Not stated
Water Found Depth: 24.0
Water Found Depth UOM: ft

Water Details

Water ID: 933490069
Layer: 2
Kind Code: 5
Kind: Not stated
Water Found Depth: 69.0
Water Found Depth UOM: ft

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13 | **2 of 3** | **NNE/20.9** | **104.8 / -0.13** | **lot 25 con 9 ON** | **WWIS**

Well ID: 1518820
Construction Date:
Use 1st: Domestic
Use 2nd:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: GOULBOURN TOWNSHIP
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 03/12/1984
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1558
Form Version: 1
Owner:
County: OTTAWA-CARLETON
Lot: 025
Concession: 09
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1518820.pdf

Additional Detail(s) (Map)

Well Completed Date: 02/27/1984

Year Completed:	1984
Depth (m):	21.336
Latitude:	45.2505938221341
Longitude:	-75.8945513083474
X:	-75.89455114695551
Y:	45.25059381504941
Path:	151\1518820.pdf

Bore Hole Information

Bore Hole ID:	10040690	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	429803.70
Code OB Desc:		**North83:**	5011178.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	9
Date Completed:	02/27/1984	**UTMRC Desc:**	unknown UTM
Remarks:		**Location Method:**	lot
Location Method Desc:	Lot centroid		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931039652
Layer:	2
Color:	2
General Color:	GREY
Material 1:	15
Material 1 Desc:	LIMESTONE
Material 2:	71
Material 2 Desc:	FRACTURED
Material 3:	74
Material 3 Desc:	LAYERED
Formation Top Depth:	3.0
Formation End Depth:	8.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931039653
Layer:	3
Color:	2
General Color:	GREY
Material 1:	15
Material 1 Desc:	LIMESTONE
Material 2:	78
Material 2 Desc:	MEDIUM-GRAINED
Material 3:	73
Material 3 Desc:	HARD
Formation Top Depth:	8.0
Formation End Depth:	70.0
Formation End Depth UOM:	ft

Overburden and Bedrock

Materials Interval

Formation ID:	931039651
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	05
Material 1 Desc:	CLAY
Material 2:	14
Material 2 Desc:	HARDPAN
Material 3:	79
Material 3 Desc:	PACKED
Formation Top Depth:	0.0
Formation End Depth:	3.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961518820
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10589260
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930071035
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	19.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930071036
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	70.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pumping Test Method Desc:	BAILER
Pump Test ID:	991518820
Pump Set At:	
Static Level:	15.0
Final Level After Pumping:	50.0

Recommended Pump Depth:	50.0
Pumping Rate:	12.0
Flowing Rate:	
Recommended Pump Rate:	5.0
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	2
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	No

Draw Down & Recovery

Pump Test Detail ID:	934103294
Test Type:	Draw Down
Test Duration:	15
Test Level:	50.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934900061
Test Type:	Draw Down
Test Duration:	60
Test Level:	50.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934380552
Test Type:	Draw Down
Test Duration:	30
Test Level:	50.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934650524
Test Type:	Draw Down
Test Duration:	45
Test Level:	50.0
Test Level UOM:	ft

Water Details

Water ID:	933475628
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	65.0
Water Found Depth UOM:	ft

13	***3 of 3***	***NNE/20.9***	***104.8 / -0.13***	***lot 25 con 9 ON***	***WWIS***

Well ID:	1527414	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Domestic	***Data Entry Status:***	
Use 2nd:		***Data Src:***	1

Final Well Status:	Test Hole	**Date Received:**	09/19/1993
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	76768	**Contractor:**	3644
Tag:		**Form Version:**	1
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	OTTAWA-CARLETON
Elevatn Reliabilty:		**Lot:**	025
Depth to Bedrock:		**Concession:**	09
Well Depth:		**Concession Name:**	CON
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	

Municipality: GOULBOURN TOWNSHIP
Site Info:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/152\1527414.pdf

Additional Detail(s) (Map)

Well Completed Date: 08/19/1993
Year Completed: 1993
Depth (m): 61.8744
Latitude: 45.2505938221341
Longitude: -75.8945513083474
X: -75.89455114695551
Y: 45.25059381504941
Path: 152\1527414.pdf

Bore Hole Information

Bore Hole ID:	10049063	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	429803.70
Code OB Desc:		**North83:**	5011178.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	9
Date Completed:	08/19/1993	**UTMRC Desc:**	unknown UTM
Remarks:		**Location Method:**	lot

Location Method Desc: Lot centroid
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 931066594
Layer: 2
Color: 2
General Color: GREY
Material 1: 15
Material 1 Desc: LIMESTONE
Material 2: 81
Material 2 Desc: SANDY
Material 3:
Material 3 Desc:
Formation Top Depth: 19.0

Formation End Depth:	203.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931066593
Layer:	1
Color:	2
General Color:	GREY
Material 1:	02
Material 1 Desc:	TOPSOIL
Material 2:	12
Material 2 Desc:	STONES
Material 3:	81
Material 3 Desc:	SANDY
Formation Top Depth:	0.0
Formation End Depth:	19.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	933112444
Layer:	1
Plug From:	0.0
Plug To:	25.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961527414
Method Construction Code:	5
Method Construction:	Air Percussion
Other Method Construction:	

Pipe Information

Pipe ID:	10597633
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930085674
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	25.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930085675
Layer:	2
Material:	4

Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	203.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pumping Test Method Desc:	PUMP
Pump Test ID:	991527414
Pump Set At:	
Static Level:	
Final Level After Pumping:	180.0
Recommended Pump Depth:	180.0
Pumping Rate:	5.0
Flowing Rate:	
Recommended Pump Rate:	5.0
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
Flowing:	No

Draw Down & Recovery

Pump Test Detail ID:	934385484
Test Type:	Recovery
Test Duration:	30
Test Level:	67.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934654809
Test Type:	Recovery
Test Duration:	45
Test Level:	24.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934110668
Test Type:	Recovery
Test Duration:	15
Test Level:	118.0
Test Level UOM:	ft

Water Details

Water ID:	933486860
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	198.0
Water Found Depth UOM:	ft

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
14	1 of 1	SE/52.6	101.9 / -3.05	ON	BORE

Borehole ID:	609457	**Inclin FLG:**	No
OGF ID:	215511073	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:		**Primary Name:**	
Completion Date:		**Municipality:**	
Static Water Level:	-23.0	**Lot:**	
Primary Water Use:		**Township:**	
Sec. Water Use:		**Latitude DD:**	45.242807
Total Depth m:	-999	**Longitude DD:**	-75.89332
Depth Ref:	Ground Surface	**UTM Zone:**	18
Depth Elev:		**Easting:**	429891
Drill Method:		**Northing:**	5010312
Orig Ground Elev m:	103	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	102		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218383269	**Mat Consistency:**	
Top Depth:	6.1	**Material Moisture:**	
Bottom Depth:	9.1	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Clay	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	CLAY.		

Geology Stratum ID:	218383270	**Mat Consistency:**	
Top Depth:	9.1	**Material Moisture:**	
Bottom Depth:		**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
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. 00150 AT 418.0 FEET. 17500. 00106 SEISMIC VELOCITY = 19500.		

Geology Stratum ID:	218383268	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	6.1	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	SAND.		

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies

Confidence:	M	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: OTTAWA1.txt RecordID: 019650 NTS_Sheet: 31G04E		
Confiden 1:	Reliable information but incomplete.		

Source List

Source Identifier:	1	**Horizontal Datum:**	NAD27
Source Type:	Data Survey	**Vertical Datum:**	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		

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15 | ***1 of 1*** | ***SE/67.0*** | ***101.9 / -3.05*** | ***lot 24 con 8 ON*** | ***WWIS***

Well ID:	1502540	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Domestic	**Data Entry Status:**	
Use 2nd:	0	**Data Src:**	1
Final Well Status:	Water Supply	**Date Received:**	06/05/1959
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:		**Contractor:**	3116
Tag:		**Form Version:**	1
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	OTTAWA-CARLETON
Elevatn Reliabilty:		**Lot:**	024
Depth to Bedrock:		**Concession:**	08
Well Depth:		**Concession Name:**	CON
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	GOULBOURN TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1502540.pdf

Additional Detail(s) (Map)

Well Completed Date:	05/16/1959
Year Completed:	1959
Depth (m):	18.8976
Latitude:	45.2426281094334
Longitude:	-75.8933177456545
X:	-75.89331758508382
Y:	45.24262810220622
Path:	150\1502540.pdf

Bore Hole Information

Bore Hole ID:	10024583	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	429890.70
Code OB Desc:		**North83:**	5010292.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	05/16/1959	**UTMRC Desc:**	margin of error : 100 m - 300 m

Remarks: ***Location Method:*** p5
Location Method Desc: Original Pre1985 UTM Rel Code 5: margin of error : 100 m - 300 m
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 930994744
Layer: 1
Color: 7
General Color: RED
Material 1: 09
Material 1 Desc: MEDIUM SAND
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 20.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 930994746
Layer: 3
Color:
General Color:
Material 1: 15
Material 1 Desc: LIMESTONE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 30.0
Formation End Depth: 62.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 930994745
Layer: 2
Color:
General Color:
Material 1: 05
Material 1 Desc: CLAY
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 20.0
Formation End Depth: 30.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961502540
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10573153
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930041945
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 62.0
Casing Diameter: 4.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930041944
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 44.0
Casing Diameter: 4.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 991502540
Pump Set At:
Static Level:
Final Level After Pumping: 0.0
Recommended Pump Depth: 62.0
Pumping Rate: 10.0
Flowing Rate:
Recommended Pump Rate: 3.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: Yes

Water Details

Water ID: 933455338
Layer: 1
Kind Code: 1

Kind: FRESH
Water Found Depth: 62.0
Water Found Depth UOM: ft

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16 | **1 of 1** | **E/79.1** | **100.9 / -4.00** | **lot 25 con 8 ON** | **WWIS**

Well ID: 1532642
Construction Date:
Use 1st: Domestic
Use 2nd:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 237772
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: GOULBOURN TOWNSHIP
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 02/25/2002
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1119
Form Version: 1
Owner:
County: OTTAWA-CARLETON
Lot: 025
Concession: 08
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/153\1532642.pdf

Additional Detail(s) (Map)

Well Completed Date: 02/08/2002
Year Completed: 2002
Depth (m): 18.5928
Latitude: 45.2450199858583
Longitude: -75.8913381249399
X: -75.89133796365243
Y: 45.24501997901253
Path: 153\1532642.pdf

Bore Hole Information

Bore Hole ID: 10523771
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 02/08/2002
Remarks:
Location Method Desc:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83: 430049.00
North83: 5010556.00
Org CS: N83
UTMRC: 3
UTMRC Desc: margin of error : 10 - 30 m
Location Method:

Overburden and Bedrock Materials Interval

Formation ID:	932857353
Layer:	1
Color:	
General Color:	
Material 1:	28
Material 1 Desc:	SAND
Material 2:	11
Material 2 Desc:	GRAVEL
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	16.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932857354
Layer:	2
Color:	2
General Color:	GREY
Material 1:	15
Material 1 Desc:	LIMESTONE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	16.0
Formation End Depth:	61.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	933225297
Layer:	1
Plug From:	2.0
Plug To:	22.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961532642
Method Construction Code:	5
Method Construction:	Air Percussion
Other Method Construction:	

Pipe Information

Pipe ID:	11072341
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930095276
Layer:	3
Material:	4
Open Hole or Material:	OPEN HOLE

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

Construction Record - Casing

Casing ID: 930095274
Layer: 1
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To:
Casing Diameter: 8.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930095275
Layer: 2
Material:
Open Hole or Material:
Depth From:
Depth To:
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 991532642
Pump Set At:
Static Level: 4.0
Final Level After Pumping: 50.0
Recommended Pump Depth: 50.0
Pumping Rate: 26.0
Flowing Rate:
Recommended Pump Rate: 26.0
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
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934117428
Test Type: Recovery
Test Duration: 15
Test Level: 4.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934661563
Test Type: Recovery

Test Duration:	45
Test Level:	4.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934918864
Test Type:	Recovery
Test Duration:	60
Test Level:	4.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934400483
Test Type:	Recovery
Test Duration:	30
Test Level:	4.0
Test Level UOM:	ft

Water Details

Water ID:	934016289
Layer:	3
Kind Code:	5
Kind:	Not stated
Water Found Depth:	54.0
Water Found Depth UOM:	ft

Water Details

Water ID:	934016287
Layer:	1
Kind Code:	5
Kind:	Not stated
Water Found Depth:	33.0
Water Found Depth UOM:	ft

Water Details

Water ID:	934016288
Layer:	2
Kind Code:	5
Kind:	Not stated
Water Found Depth:	53.0
Water Found Depth UOM:	ft

17 | ***1 of 1*** | ***SSW/83.6*** | ***104.9 / -0.05*** | ***1 POPLARWOOD AVENUE STITTSVILLE ON K2S 1V3*** | ***HINC***

External File Num:	FS INC 0807-03513
Fuel Occurrence Type:	CO Release
Date of Occurrence:	7/10/2008
Fuel Type Involved:	Natural Gas
Status Desc:	Completed - Causal Analysis(End)
Job Type Desc:	Incident/Near-Miss Occurrence (FS)
Oper. Type Involved:	Private Dwelling
Service Interruptions:	Yes
Property Damage:	No
Fuel Life Cycle Stage:	Utilization
Root Cause:	Root Cause: Equipment/Material/Component:Yes Procedures:No Maintenance:Yes Design:Yes Training:

No Management:Yes Human Factors:Yes

Reported Details:
Fuel Category: Gaseous Fuel
Occurrence Type: Near-miss
Affiliation: Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)
County Name: Ottawa
Approx. Quant. Rel:
Nearby body of water:
Enter Drainage Syst.:
Approx. Quant. Unit:
Environmental Impact:

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18 | ***1 of 1*** | ***E/107.7*** | ***100.1 / -4.80*** | ***lot 25 con 9 ON*** | ***WWIS***

Well ID:	1527415	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Domestic	***Data Entry Status:***	
Use 2nd:		***Data Src:***	1
Final Well Status:	Test Hole	***Date Received:***	09/10/1993
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	76770	***Contractor:***	3644
Tag:		***Form Version:***	1
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	OTTAWA-CARLETON
Elevatn Reliabilty:		***Lot:***	025
Depth to Bedrock:		***Concession:***	09
Well Depth:		***Concession Name:***	CON
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	

Municipality: GOULBOURN TOWNSHIP
Site Info:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/152\1527415.pdf

Additional Detail(s) (Map)

Well Completed Date: 08/23/1993
Year Completed: 1993
Depth (m): 49.6824
Latitude: 45.2469606788964
Longitude: -75.8883395231758
X: -75.88833936200984
Y: 45.246960672523585
Path: 152\1527415.pdf

Bore Hole Information

Bore Hole ID:	10049064	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:		***East83:***	430286.70
Code OB Desc:		***North83:***	5010769.00
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	5
Date Completed:	08/23/1993	***UTMRC Desc:***	margin of error : 100 m - 300 m
Remarks:		***Location Method:***	gis
Location Method Desc:	from gis		
Elevrc Desc:			

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

Overburden and Bedrock Materials Interval

Formation ID:	931066595
Layer:	1
Color:	2
General Color:	GREY
Material 1:	02
Material 1 Desc:	TOPSOIL
Material 2:	81
Material 2 Desc:	SANDY
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	13.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931066596
Layer:	2
Color:	2
General Color:	GREY
Material 1:	15
Material 1 Desc:	LIMESTONE
Material 2:	81
Material 2 Desc:	SANDY
Material 3:	
Material 3 Desc:	
Formation Top Depth:	13.0
Formation End Depth:	163.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	933112445
Layer:	1
Plug From:	0.0
Plug To:	22.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961527415
Method Construction Code:	5
Method Construction:	Air Percussion
Other Method Construction:	

Pipe Information

Pipe ID:	10597634
Casing No:	1
Comment:	

Alt Name:

Construction Record - Casing

Casing ID:	930085676
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	22.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930085677
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pumping Test Method Desc:	PUMP
Pump Test ID:	991527415
Pump Set At:	
Static Level:	7.0
Final Level After Pumping:	60.0
Recommended Pump Depth:	60.0
Pumping Rate:	14.0
Flowing Rate:	
Recommended Pump Rate:	10.0
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
Flowing:	No

Draw Down & Recovery

Pump Test Detail ID:	934654810
Test Type:	Recovery
Test Duration:	45
Test Level:	7.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934903184
Test Type:	Recovery
Test Duration:	60
Test Level:	7.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934110669
Test Type:	Recovery
Test Duration:	15
Test Level:	9.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934385485
Test Type:	Recovery
Test Duration:	30
Test Level:	7.0
Test Level UOM:	ft

Water Details

Water ID:	933486861
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	158.0
Water Found Depth UOM:	ft

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19 | ***1 of 1*** | ***N/110.7*** | ***105.4 / 0.42*** | ***Pest B Gone Ottawa Inc.***
83 ARIDUS CRES
STITTSVILLE ON K2S 2L3 | ***PES***

Detail Licence No:		***Operator Box:***	
Licence No:	L-240-2206760537	***Operator Class:***	
Status:	Active	***Operator No:***	
Approval Date:	December 16, 2023	***Operator Type:***	
Report Source:	PEST-Operator	***Oper Area Code:***	
Licence Type:	Operator	***Oper Phone No:***	
Licence Type Code:		***Operator Ext:***	
Licence Class:		***Operator Lot:***	
Licence Control:		***Oper Concession:***	
Latitude:	45.25027778	***Operator Region:***	
Longitude:	-75.89694444	***Operator District:***	
Lot:		***Operator County:***	
Concession:		***Op Municipality:***	
Region:		***Post Office Box:***	
District:		***MOE District:***	Ottawa
County:		***SWP Area Name:***	Rideau Valley
Trade Name:			

PDF URL: http://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/ViewDocument.action?documentRefID=3232889

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20 | ***1 of 2*** | ***W/125.1*** | ***111.0 / 6.07*** | ***Enbridge Gas Distribution Inc.***
884 Stallion Cres
Ottawa ON | ***SPL***

Ref No:	8816-B6NP95	***Municipality No:***	
Year:		***Nature of Damage:***	
Incident Dt:	2018/11/19	***Discharger Report:***	
Dt MOE Arvl on Scn:		***Material Group:***	
MOE Reported Dt:	2018/11/19	***Impact to Health:***	2 - Minor Environment
Dt Document Closed:		***Agency Involved:***	
Site No:	NA		
MOE Response:	No		
Site County/District:			

Site Geo Ref Meth:	
Site District Office:	Ottawa
Nearest Watercourse:	
Site Name:	Residential<UNOFFICIAL>
Site Address:	884 Stallion Cres
Site Region:	Eastern
Site Municipality:	Ottawa
Site Lot:	
Site Conc:	
Site Geo Ref Accu:	
Site Map Datum:	
Northing:	
Easting:	
Incident Cause:	
Incident Preceding Spill:	Leak/Break
Environment Impact:	
Health Env Consequence:	
Nature of Impact:	
Contaminant Qty:	0 other - see incident description
System Facility Address:	
Client Name:	Enbridge Gas Distribution Inc.
Client Type:	Corporation
Source Type:	Pipeline/Components
Contaminant Code:	35
Contaminant Name:	NATURAL GAS (METHANE)
Contaminant Limit 1:	
Contam Limit Freq 1:	
Contaminant UN No 1:	1075
Receiving Medium:	Air
Incident Reason:	Operator/Human Error
Incident Summary:	TSSA 1/2 inch line damage, made safe
Activity Preceding Spill:	
Property 2nd Watershed:	
Property Tertiary Watershed:	
Sector Type:	Miscellaneous Communal
SAC Action Class:	TSSA - Fuel Safety Branch - Hydrocarbon Fuel Release/Spill
Call Report Locatn Geodata:	

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20 | ***2 of 2*** | ***W/125.1*** | ***111.0 / 6.07*** | ***TSSA INCIDENTS***
884 STALLION CRES,,OTTAWA,ON,K2S 0Y9,CA
ON | ***PINC***

Incident Id:		**Pipe Material:**	
Incident No:	2443594	**Fuel Category:**	
Incident Reported Dt:	11/19/2018	**Health Impact:**	
Type:	FS-Pipeline Incident	**Environment Impact:**	
Status Code:		**Property Damage:**	
Tank Status:	Non Mandated	**Service Interrupt:**	
Task No:		**Enforce Policy:**	
Spills Action Centre:		**Public Relation:**	
Fuel Type:		**Pipeline System:**	
Fuel Occurrence Tp:		**PSIG:**	
Date of Occurrence:		**Attribute Category:**	
Occurrence Start Dt:		**Regulator Location:**	
Depth:		**Method Details:**	
Customer Acct Name:	TSSA INCIDENTS		
Incident Address:	884 STALLION CRES,,OTTAWA,ON,K2S 0Y9,CA		
Operation Type:			
Pipeline Type:			
Regulator Type:			
Summary:			
Reported By:			
Affiliation:			
Occurrence Desc:			

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

Damage Reason:
Notes:

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21 | ***1 of 1*** | ***NW/216.6*** | ***107.8 / 2.89*** | ***Stittsville South Inc. and 1384341 Ontario Inc. 70 Friendly Cres 1883 Main Street, 1921 Main Street, 1877 Main Street, 74 Hartsmere Drive Ottawa ON K2C 0P9*** | ***ECA***

Approval No:	5994-AHGKP5	***MOE District:***	
Approval Date:	2017-01-19	***City:***	
Status:	Approved	***Longitude:***	
Record Type:	ECA	***Latitude:***	
Link Source:	IDS	***Geometry X:***	
SWP Area Name:		***Geometry Y:***	

Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Stittsville South Inc. and 1384341 Ontario Inc.
Address: 70 Friendly Cres 1883 Main Street, 1921 Main Street, 1877 Main Street, 74 Hartsmere Drive
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/9791-ABDJGR-14.pdf
PDF Site Location:

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22 | ***1 of 1*** | ***SSW/238.1*** | ***107.9 / 2.98*** | ***lot 23 con 9 ON*** | ***WWIS***

Well ID:	1510833	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Domestic	***Data Entry Status:***	
Use 2nd:	0	***Data Src:***	1
Final Well Status:	Water Supply	***Date Received:***	09/28/1970
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:		***Contractor:***	1558
Tag:		***Form Version:***	1
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	OTTAWA-CARLETON
Elevatn Reliabilty:		***Lot:***	023
Depth to Bedrock:		***Concession:***	09
Well Depth:		***Concession Name:***	CON
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	

Municipality: GOULBOURN TOWNSHIP
Site Info:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1510833.pdf

Additional Detail(s) (Map)

Well Completed Date:	07/09/1970
Year Completed:	1970
Depth (m):	22.86
Latitude:	45.2395119328896
Longitude:	-75.9004039246928
X:	-75.9004037643592
Y:	45.239511926392375
Path:	151\1510833.pdf

Bore Hole Information

Bore Hole ID:	10032838	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	429330.70
Code OB Desc:		**North83:**	5009952.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	4
Date Completed:	07/09/1970	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	p4

Location Method Desc: Original Pre1985 UTM Rel Code 4: margin of error : 30 m - 100 m
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 931015930
Layer: 1
Color: 6
General Color: BROWN
Material 1: 09
Material 1 Desc: MEDIUM SAND
Material 2: 11
Material 2 Desc: GRAVEL
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 12.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931015931
Layer: 2
Color: 2
General Color: GREY
Material 1: 15
Material 1 Desc: LIMESTONE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 12.0
Formation End Depth: 75.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961510833
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10581408

Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930058230
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 19.0
Casing Diameter: 5.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930058231
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 75.0
Casing Diameter:
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: BAILER
Pump Test ID: 991510833
Pump Set At:
Static Level: 10.0
Final Level After Pumping: 25.0
Recommended Pump Depth: 60.0
Pumping Rate: 10.0
Flowing Rate:
Recommended Pump Rate: 5.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 2
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934641706
Test Type: Draw Down
Test Duration: 45
Test Level: 25.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934899048
Test Type: Draw Down
Test Duration: 60
Test Level: 25.0

Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934097395
Test Type: Draw Down
Test Duration: 15
Test Level: 15.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934380130
Test Type: Draw Down
Test Duration: 30
Test Level: 20.0
Test Level UOM: ft

Water Details

Water ID: 933465863
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 73.0
Water Found Depth UOM: ft

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23 | ***1 of 1*** | ***SSW/238.2*** | ***107.9 / 2.98*** | ***ON*** | ***BORE***

Borehole ID: 609451
OGF ID: 215511067
Status:
Type: Borehole
Use:
Completion Date: JUL-1970
Static Water Level: -18.0
Primary Water Use:
Sec. Water Use:
Total Depth m: 22.9
Depth Ref: Ground Surface
Depth Elev:
Drill Method:
Orig Ground Elev m: 109
Elev Reliabil Note:
DEM Ground Elev m: 108
Concession:
Location D:
Survey D:
Comments:

Inclin FLG: No
SP Status: Initial Entry
Surv Elev: No
Piezometer: No
Primary Name:
Municipality:
Lot:
Township:
Latitude DD: 45.239511
Longitude DD: -75.900404
UTM Zone: 18
Easting: 429331
Northing: 5009952
Location Accuracy:
Accuracy: Not Applicable

Borehole Geology Stratum

Geology Stratum ID: 218383258
Top Depth: 3.7
Bottom Depth: 22.9
Material Color: Grey
Material 1: Limestone
Material 2:
Material 3:
Material 4:
Gsc Material Description:

Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen:

Stratum Description: LIMESTONE. GREY. 00073 AT 418.0 FEET. 17500. 00106 SEISMIC VELOCITY = 19500. BE **Note: Many records provided by the department have a truncated [Stratum Description] field.

Geology Stratum ID: 218383257
Top Depth: 0
Bottom Depth: 3.7
Material Color: Brown
Material 1: Sand
Material 2: Gravel
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: SAND,GRAVEL. BROWN.

Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen:

Source

Source Type: Data Survey
Source Orig: Geological Survey of Canada
Source Date: 1956-1972
Confidence:
Observatio:
Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: OTTAWA1.txt RecordID: 01959 NTS_Sheet:
Confiden 1:

Source Appl: Spatial/Tabular
Source Iden: 1
Scale or Res: Varies
Horizontal: NAD27
Verticalda: Mean Average Sea Level

Source List

Source Identifier: 1
Source Type: Data Survey
Source Date: 1956-1972
Scale or Resolution: Varies
Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada

Horizontal Datum: NAD27
Vertical Datum: Mean Average Sea Level
Projection Name: Universal Transverse Mercator

24	1 of 1	WSW/247.5	110.7 / 5.80	14 POPLARWOOD (LOT 43) lot 23 con 9 STITTSVILLE ON	WWIS

Well ID: 7176408
Construction Date:
Use 1st: Domestic
Use 2nd:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: Z139723
Tag: A119663
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: GOULBOURN TOWNSHIP
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 02/09/2012
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1558
Form Version: 7
Owner:
County: OTTAWA-CARLETON
Lot: 023
Concession: 09
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/717\7176408.pdf

Additional Detail(s) (Map)

Well Completed Date: 11/02/2011
Year Completed: 2011
Depth (m): 83.2
Latitude: 45.24157823303
Longitude: -75.9031976605648
X: -75.9031974995395
Y: 45.241578226560634
Path: 717\7176408.pdf

Bore Hole Information

Bore Hole ID: 1003689955
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 11/02/2011
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83: 429114.00
North83: 5010184.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1004061385
Layer: 1
Color:
General Color:
Material 1:
Material 1 Desc:
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 33.52000045776367
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1004061386
Layer: 2
Color:
General Color:
Material 1:
Material 1 Desc:
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 33.52000045776367
Formation End Depth: 83.19999694824219
Formation End Depth UOM: m

Method of Construction & Well Use

Method Construction ID:	1004061419
Method Construction Code:	2
Method Construction:	Rotary (Convent.)
Other Method Construction:	AIR PERCUSSION

Pipe Information

Pipe ID:	1004061383
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1004061390
Layer:	
Material:	
Open Hole or Material:	
Depth From:	
Depth To:	
Casing Diameter:	
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1004061391
Layer:	
Slot:	
Screen Top Depth:	
Screen End Depth:	
Screen Material:	
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	

Results of Well Yield Testing

Pumping Test Method Desc:	
Pump Test ID:	1004061384
Pump Set At:	60.95000076293945
Static Level:	9.890000343322754
Final Level After Pumping:	27.31999969482422
Recommended Pump Depth:	39.619998931884766
Pumping Rate:	45.5
Flowing Rate:	
Recommended Pump Rate:	45.5
Levels UOM:	m
Rate UOM:	LPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	0
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	No

Draw Down & Recovery

Pump Test Detail ID:	1004061407

Test Type: Recovery
Test Duration: 20
Test Level: 8.319999694824219
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004061409
Test Type: Recovery
Test Duration: 25
Test Level: 8.479999542236328
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004061411
Test Type: Recovery
Test Duration: 30
Test Level: 8.4399995803833
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004061405
Test Type: Recovery
Test Duration: 15
Test Level: 9.260000228881836
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004061415
Test Type: Recovery
Test Duration: 50
Test Level: 8.260000228881836
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004061416
Test Type: Draw Down
Test Duration: 60
Test Level: 27.31999969482422
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004061396
Test Type: Draw Down
Test Duration: 3
Test Level: 13.350000381469727
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004061399
Test Type: Recovery
Test Duration: 4
Test Level: 18.979999542236328
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004061403
Test Type: Recovery
Test Duration: 10
Test Level: 11.779999732971191
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004061410
Test Type: Draw Down
Test Duration: 30
Test Level: 24.799999237060547
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004061406
Test Type: Draw Down
Test Duration: 20
Test Level: 20.59000015258789
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004061413
Test Type: Recovery
Test Duration: 40
Test Level: 8.3100004196167
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004061393
Test Type: Recovery
Test Duration: 1
Test Level: 24.56999969482422
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004061395
Test Type: Recovery
Test Duration: 2
Test Level: 22.260000228881836
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004061401
Test Type: Recovery
Test Duration: 5
Test Level: 16.579999923706055
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004061402
Test Type: Draw Down
Test Duration: 10
Test Level: 19.1200008392334
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004061412
Test Type: Draw Down
Test Duration: 40
Test Level: 25.520000457763672
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004061392
Test Type: Draw Down
Test Duration: 1
Test Level: 11.100000381469727
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004061394
Test Type: Draw Down
Test Duration: 2
Test Level: 12.119999885559082
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004061404
Test Type: Draw Down
Test Duration: 15
Test Level: 19.6200008392334
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004061408
Test Type: Draw Down
Test Duration: 25
Test Level: 23.959999084472656
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004061398
Test Type: Draw Down
Test Duration: 4
Test Level: 14.489999771118164
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004061417
Test Type: Recovery
Test Duration: 60
Test Level: 8.239999771118164

Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004061397
Test Type: Recovery
Test Duration: 3
Test Level: 19.18000030517578
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004061400
Test Type: Draw Down
Test Duration: 5
Test Level: 15.40999984741211
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004061414
Test Type: Draw Down
Test Duration: 50
Test Level: 26.030000686645508
Test Level UOM: m

Water Details

Water ID: 1004061389
Layer: 2
Kind Code: 8
Kind: Untested
Water Found Depth: 81.9800033569336
Water Found Depth UOM: m

Water Details

Water ID: 1004061388
Layer: 1
Kind Code: 8
Kind: Untested
Water Found Depth: 67.3499984741211
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1004061387
Diameter: 15.229999542236328
Depth From: 33.52000045776367
Depth To: 83.19999694824219
Hole Depth UOM: m
Hole Diameter UOM: cm

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25 | **1 of 3** | **WNW/249.7** | **110.8 / 5.85** | **lot 25 con 9 ON** | **WWIS**

Well ID: 1502584
Construction Date:
Use 1st: Domestic
Use 2nd: 0
Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1

Final Well Status:	Water Supply	**Date Received:**	05/28/1957
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:		**Contractor:**	3114
Tag:		**Form Version:**	1
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	OTTAWA-CARLETON
Elevatn Reliabilty:		**Lot:**	025
Depth to Bedrock:		**Concession:**	09
Well Depth:		**Concession Name:**	CON
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	

Municipality: GOULBOURN TOWNSHIP
Site Info:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1502584.pdf

Additional Detail(s) (Map)

Well Completed Date: 04/30/1957
Year Completed: 1957
Depth (m): 23.7744
Latitude: 45.2478561607569
Longitude: -75.9038489251023
X: -75.90384876389804
Y: 45.24785615411395
Path: 150\1502584.pdf

Bore Hole Information

Bore Hole ID:	10024627	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	429070.70
Code OB Desc:		**North83:**	5010882.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	04/30/1957	**UTMRC Desc:**	margin of error : 100 m - 300 m
Remarks:		**Location Method:**	p5

Location Method Desc: Original Pre1985 UTM Rel Code 5: margin of error : 100 m - 300 m
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 930994845
Layer: 2
Color:
General Color:
Material 1: 11
Material 1 Desc: GRAVEL
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 2.0

Formation End Depth:	20.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	930994846
Layer:	3
Color:	
General Color:	
Material 1:	15
Material 1 Desc:	LIMESTONE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	20.0
Formation End Depth:	78.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	930994844
Layer:	1
Color:	
General Color:	
Material 1:	02
Material 1 Desc:	TOPSOIL
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	2.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961502584
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10573197
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930042034
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	25.0
Casing Diameter:	4.0
Casing Diameter UOM:	inch

Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930042035
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 78.0
Casing Diameter: 4.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 991502584
Pump Set At:
Static Level: 20.0
Final Level After Pumping: 25.0
Recommended Pump Depth:
Pumping Rate: 6.0
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 0
Pumping Duration MIN: 30
Flowing: No

Water Details

Water ID: 933455383
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 78.0
Water Found Depth UOM: ft

---

25 | ***2 of 3*** | ***WNW/249.7*** | ***110.8 / 5.85*** | ***lot 24 con 9 ON*** | ***WWIS***

Well ID: 1510222
Construction Date:
Use 1st: Domestic
Use 2nd: 0
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 10/30/1969
Selected Flag: TRUE
Abandonment Rec:
Contractor: 4847
Form Version: 1
Owner:
County: OTTAWA-CARLETON
Lot: 024
Concession: 09
Concession Name: CON
Easting NAD83:
Northing NAD83:

Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	GOULBOURN TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1510222.pdf

Additional Detail(s) (Map)

Well Completed Date:	09/11/1969
Year Completed:	1969
Depth (m):	19.812
Latitude:	45.2478561607569
Longitude:	-75.9038489251023
X:	-75.90384876389804
Y:	45.24785615411395
Path:	151\1510222.pdf

Bore Hole Information

Bore Hole ID:	10032250	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	429070.70
Code OB Desc:		**North83:**	5010882.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	09/11/1969	**UTMRC Desc:**	margin of error : 100 m - 300 m
Remarks:		**Location Method:**	p5

Location Method Desc: Original Pre1985 UTM Rel Code 5: margin of error : 100 m - 300 m
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID:	931014250
Layer:	3
Color:	2
General Color:	GREY
Material 1:	15
Material 1 Desc:	LIMESTONE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	11.0
Formation End Depth:	65.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931014248
Layer:	1
Color:	
General Color:	
Material 1:	11

Material 1 Desc: GRAVEL
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 8.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931014249
Layer: 2
Color:
General Color:
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 8.0
Formation End Depth: 11.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961510222
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10580820
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930057097
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 11.0
Casing Diameter: 4.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930057098
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 65.0
Casing Diameter: 4.0

Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pumping Test Method Desc:	PUMP
Pump Test ID:	991510222
Pump Set At:	
Static Level:	14.0
Final Level After Pumping:	25.0
Recommended Pump Depth:	30.0
Pumping Rate:	5.0
Flowing Rate:	
Recommended Pump Rate:	5.0
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	0
Pumping Duration MIN:	30
Flowing:	No

Water Details

Water ID:	933465185
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	25.0
Water Found Depth UOM:	ft

---

25 ***3 of 3*** ***WNW/249.7*** ***110.8 / 5.85*** ***ON*** ***BORE***

Borehole ID:	609471	***Inclin FLG:***	No
OGF ID:	215511087	***SP Status:***	Initial Entry
Status:		***Surv Elev:***	No
Type:	Borehole	***Piezometer:***	No
Use:		***Primary Name:***	
Completion Date:	APR-1957	***Municipality:***	
Static Water Level:		***Lot:***	
Primary Water Use:		***Township:***	
Sec. Water Use:		***Latitude DD:***	45.247855
Total Depth m:	23.8	***Longitude DD:***	-75.903849
Depth Ref:	Ground Surface	***UTM Zone:***	18
Depth Elev:		***Easting:***	429071
Drill Method:		***Northing:***	5010882
Orig Ground Elev m:	100	***Location Accuracy:***	
Elev Reliabil Note:		***Accuracy:***	Not Applicable
DEM Ground Elev m:	113		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218383301	***Mat Consistency:***	
Top Depth:	.6	***Material Moisture:***	
Bottom Depth:	6.1	***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	

Material 1:	Gravel	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	GRAVEL.		

Geology Stratum ID:	218383302	**Mat Consistency:**	
Top Depth:	6.1	**Material Moisture:**	
Bottom Depth:	23.8	**Material Texture:**	
Material Color:	Grey	**Non Geo Mat Type:**	
Material 1:	Limestone	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	LIMESTONE. 00078NE. GREY. SHALE. GREY. 00110. 00106 SEISMIC VELOCITY = 19500.		

Geology Stratum ID:	218383300	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	.6	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Soil	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	SOIL.		

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:		**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: OTTAWA1.txt RecordID: 01979 NTS_Sheet:		
Confiden 1:			

Source List

Source Identifier:	1	**Horizontal Datum:**	NAD27
Source Type:	Data Survey	**Vertical Datum:**	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		

Unplottable Summary

Total: 29 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
AAGR		Lot 25 Con 9	Goulbourn ON	
CA	1302042 Ontario Inc.	Part of North Half of Lot 24, Concession 9	Goulbourn ON	
CA	1384341 Ontario Ltd.		Ottawa ON	
CA	1384341 Ontario Ltd. and Monarch Corporation		Ottawa ON	
CA	1384341 Ontario Ltd.		Ottawa ON	
CA	Roman Catholic Episcopal Corporation of Ottawa	Shea Road	Ottawa ON	
CA	1384341 Ontario Ltd.		Ottawa ON	
CA	1384341 Ontario Ltd. and Monarch Corporation		Ottawa ON	
CA		Part of North Half of Lot 24, Concession 9	Goulbourn ON	
CA		Part of North Half of Lot 24, Concession 9	Goulbourn ON	
CA		Part of North Half of Lot 24, Concession 9	Goulbourn ON	
CA		Part of North Half of Lot 24, Concession 9	Goulbourn ON	
CA	1384341 Ontario Ltd.		Ottawa ON	
EBR	Stittsville South Inc.	Lots 22-24, Concession 9 Geographic Township of Goulbourn CITY OF OTTAWA	ON	
ECA	City of Ottawa	Friendly Cres	Ottawa ON	K1P 1J1
EHS		Hartsmere Drive	Stittsville ON	
GEN	NATIONAL CAPITAL COMMISSION	LOT 25,26,27	OTTAWA ON	K1P 1C7

LIMO		Lot 25 Concession 8 Ottawa	ON
SPL	OTTAWA FIRE SERVICE	FLEWELLYN RD. NEAR ASHTON MOTOR VEHICLE (OPERATING FLUID)	OTTAWA CITY ON
WWIS		lot 25	ON
WWIS		con 9	ON
WWIS		con 8	ON
WWIS		lot 24	ON
WWIS		lot 24 con 9	ON
WWIS		lot 25	ON
WWIS		lot 23	ON
WWIS		lot 24 con 9	ON
WWIS		lot 24	ON
WWIS		lot 23	ON

Unplottable Report

Site: ***Database:*** ***AAGR***

Lot 25 Con 9 Goulbourn ON

Type:
Region/County: Ottawa-Carleton
Township: Goulbourn
Concession: 9
Lot: 25
Size (ha):
Landuse:
Comments:

Site: ***1302042 Ontario Inc.*** ***Database:*** ***CA***

Part of North Half of Lot 24, Concession 9 Goulbourn ON

Certificate #: 3420-5W2KM2
Application Year: 2004
Issue Date: 2/10/2004
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***1384341 Ontario Ltd.*** ***Database:*** ***CA***

Ottawa ON

Certificate #: 3537-78FQCU
Application Year: 2007
Issue Date: 10/30/2007
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***1384341 Ontario Ltd. and Monarch Corporation*** ***Database:*** ***CA***

Ottawa ON

Certificate #: 4663-7JUJPT
Application Year: 2008
Issue Date: 9/26/2008
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:

Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***1384341 Ontario Ltd.***
Ottawa ON

Database: ***CA***

Certificate #: 5816-7G6L4M
Application Year: 2008
Issue Date: 8/27/2008
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Roman Catholic Episcopal Corporation of Ottawa***
Shea Road Ottawa ON

Database: ***CA***

Certificate #: 6399-6Y5NKD
Application Year: 2007
Issue Date: 2/7/2007
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***1384341 Ontario Ltd.***
Ottawa ON

Database: ***CA***

Certificate #: 9066-82RRHB
Application Year: 2010
Issue Date: 2/23/2010
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***1384341 Ontario Ltd. and Monarch Corporation***
Ottawa ON

Database: ***CA***

Certificate #: 9853-7NAUTA
Application Year: 2009
Issue Date: 1/16/2009
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site:
Part of North Half of Lot 24, Concession 9 Goulbourn ON

Database: ***CA***

Certificate #: 0712-4LZP6T
Application Year: 00
Issue Date: 7/12/00
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: 1302042 Ontario Inc.
Client Address: 210 Gladstone Avenue
Client City: Ottawa
Client Postal Code: K2P 0Y6
Project Description: This is an application for a Municipal and Private Sewage Works Certificate of Approval to construct a stormwater management system to control runoff from the proposed subdivision.
Contaminants:
Emission Control:

Site:
Part of North Half of Lot 24, Concession 9 Goulbourn ON

Database: ***CA***

Certificate #: 4861-4LYKWW
Application Year: 00
Issue Date: 7/7/00
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: 1302042 Ontario Inc.
Client Address: 210 Gladstone Avenue
Client City: Ottawa
Client Postal Code: K2P 0Y6
Project Description: Construction of Watermains on Sunnyside Drive, Street No.'s "3", "4" & "5", and Liard Street
Contaminants:
Emission Control:

Site:
Part of North Half of Lot 24, Concession 9 Goulbourn ON

Database: ***CA***

Certificate #: 2083-4LYPVB
Application Year: 00
Issue Date: 7/7/00
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: 1302042 Ontario Inc.
Client Address: 210 Gladstone Avenue
Client City: Ottawa
Client Postal Code: K2P 0Y6
Project Description: Construction of Storm & Sanitary Sewers on Sunnyside Drive, Street No.'s "3", "4", & "5", Laird Street and Walkway No. 1 Construction of a Storm Sewer Outlet from Street No. 5 Construction of a Sewage Pumping Station on

Street No. 5, with a forcemain from Station to Sanitary Sewer on Liard Street

Contaminants:
Emission Control:

Site: ***Database:*** ***CA***

Part of North Half of Lot 24, Concession 9 Goulbourn ON

Certificate #:	8374-4LKQ7A
Application Year:	00
Issue Date:	6/28/00
Approval Type:	Industrial air
Status:	Approved
Application Type:	New Certificate of Approval
Client Name:	1302042 Ontario Inc.
Client Address:	210 Gladstone Avenue
Client City:	Ottawa
Client Postal Code:	K2P 0Y6
Project Description:	This is an application for an Air Certificate of Approval to install a 20 kW katolight engine with a 454 litre fuel storage tank standby diesel generator for emergency power for a sanitary sewage pumping station.
Contaminants:	
Emission Control:	Silencer

Site: ***1384341 Ontario Ltd.*** ***Database:*** ***CA***

Ottawa ON

Certificate #:	0963-777MHJ
Application Year:	2007
Issue Date:	9/20/2007
Approval Type:	Municipal and Private Sewage Works
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***Stittsville South Inc.*** ***Database:*** ***EBR***

Lots 22-24, Concession 9 Geographic Township of Goulbourn CITY OF OTTAWA ON

EBR Registry No:	012-4520	***Decision Posted:***	
Ministry Ref No:	MNRF INST 57/15	***Exception Posted:***	
Notice Type:	Instrument Decision	***Section:***	
Notice Stage:		***Act 1:***	
Notice Date:	December 16, 2015	***Act 2:***	
Proposal Date:	July 03, 2015	***Site Location Map:***	
Year:	2015		
Instrument Type:	(ESA s.17(2) (c)) - Permit for activities with conditions to achieve overall benefit to the species		
Off Instrument Name:			
Posted By:			
Company Name:	Stittsville South Inc.		
Site Address:			
Location Other:			
Proponent Name:			
Proponent Address:	1737 Woodward Drive, Ottawa Ontario, Canada K2C 0P9		
Comment Period:			
URL:			

Site Location Details:

Lots 22-24, Concession 9 Geographic Township of Goulbourn CITY OF OTTAWA

Site: ***City of Ottawa***
Friendly Cres Ottawa ON K1P 1J1

Database: ***ECA***

Approval No:	3846-9BELMS	***MOE District:***	
Approval Date:	2013-09-26	***City:***	
Status:	Approved	***Longitude:***	
Record Type:	ECA	***Latitude:***	
Link Source:	IDS	***Geometry X:***	
SWP Area Name:		***Geometry Y:***	

Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: City of Ottawa
Address: Friendly Cres
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/0577-9AELSQ-14.pdf
PDF Site Location:

Site:
Hartsmere Drive Stittsville ON

Database: ***EHS***

Order No:	20091027033	***Nearest Intersection:***	Cherry
Status:	C	***Municipality:***	Ottawa
Report Type:	Standard Report	***Client Prov/State:***	QC
Report Date:	11/5/2009	***Search Radius (km):***	0.25
Date Received:	10/27/2009	***X:***	-75.905835
Previous Site Name:		***Y:***	45.248288
Lot/Building Size:	6.95 acres		
Additional Info Ordered:			

Site: ***NATIONAL CAPITAL COMMISSION***
LOT 25,26,27 OTTAWA ON K1P 1C7

Database: ***GEN***

Generator No: ON9920165
SIC Code: 712190
SIC Description: Other Heritage Institutions
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 221
Waste Class Name: LIGHT FUELS

Site:
Lot 25 Concession 8 Ottawa ON

Database: ***LIMO***

ECA/Instrument No:	X9018	***Natural Attenuation:***	
Operation Status:	Historic	***Liners:***	
C of A Issue Date:		***Cover Material:***	
C of A Issued to:		***Leachate Off-Site:***	
Lndfl Gas Mgmt (P):		***Leachate On Site:***	
Lndfl Gas Mgmt (F):		***Req Coll Lndfll Gas:***	
Lndfl Gas Mgmt (E):		***Lndfll Gas Coll:***	
Lndfl Gas Mgmt Sys:		***Total Waste Rec:***	
Landfill Gas Mntr:		***TWR Methodology:***	

Leachate Coll Sys:
ERC Est Vol (m3):
ERC Volume Unit:
ERC Dt Last Det:
Landfill Type:
Source File Type: Historic and Closed Landfills
Fill Rate:
Fill Rate Unit:
Tot Fill Area (ha):
Tot Site Area (ha):
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:
Site Location Details: Lot 25 Concession 8
Ottawa
Service Area:
Page URL:

TWR Unit:
Tot Aprv Cap Unit:
Financial Assurance:
Last Report Year:
Region:
District Office:
Site County:
Lot:
Concession:
Latitude:
Longitude:
Easting:
Northing:
UTM Zone:
Data Source:

Site: ***OTTAWA FIRE SERVICE***
FLEWELLYN RD. NEAR ASHTON MOTOR VEHICLE (OPERATING FLUID) OTTAWA CITY ON

Database: ***SPL***

Ref No: 200038
Year:
Incident Dt: 5/7/2001
Dt MOE Arvl on Scn:
MOE Reported Dt: 5/7/2001
Dt Document Closed:
Site No:
MOE Response:
Site County/District:
Site Geo Ref Meth:
Site District Office:
Nearest Watercourse:
Site Name:
Site Address:
Site Region:
Site Municipality: OTTAWA CITY
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:
Incident Cause: OTHER TRANSPORTATION ACCIDENT
Incident Preceding Spill:
Environment Impact: Possible
Health Env Consequence:
Nature of Impact: Human health
Contaminant Qty:
System Facility Address:
Client Name:
Client Type:
Source Type:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium: Land, Water
Incident Reason: OTHER

Municipality No: 20107
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health:
Agency Involved:

Incident Summary: FLEWELLYN RD - SPILL OF PETROLEUM FROM CAR GAS TANK, INTO CREEK.
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type:
SAC Action Class:
Call Report Locatn Geodata:

Site:
lot 25 ON

Database: ***WWIS***

Well ID:	1525674	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Domestic	***Data Entry Status:***	
Use 2nd:		***Data Src:***	1
Final Well Status:	Water Supply	***Date Received:***	10/21/1991
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	92040	***Contractor:***	3644
Tag:		***Form Version:***	1
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	OTTAWA-CARLETON
Elevatn Reliabilty:		***Lot:***	025
Depth to Bedrock:		***Concession:***	
Well Depth:		***Concession Name:***	
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	GOULBOURN TOWNSHIP		
Site Info:			

Bore Hole Information

Bore Hole ID:	10047409	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:		***East83:***	
Code OB Desc:		***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	07/29/1991	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Location Method Desc:	Not Applicable i.e. no UTM		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931061987
Layer:	1
Color:	2
General Color:	GREY
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0

Formation End Depth: 2.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931061988
Layer: 2
Color: 2
General Color: GREY
Material 1: 15
Material 1 Desc: LIMESTONE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 2.0
Formation End Depth: 223.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961525674
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10595979
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930082985
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 22.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930082986
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 223.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 991525674
Pump Set At:

Static Level: 45.0
Final Level After Pumping: 210.0
Recommended Pump Depth: 210.0
Pumping Rate: 5.0
Flowing Rate:
Recommended Pump Rate: 5.0
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
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934105049
Test Type:
Test Duration: 15
Test Level: 210.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934388708
Test Type:
Test Duration: 30
Test Level: 210.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934649246
Test Type:
Test Duration: 45
Test Level: 210.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934906426
Test Type:
Test Duration: 60
Test Level: 210.0
Test Level UOM: ft

Water Details

Water ID: 933484727
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 218.0
Water Found Depth UOM: ft

Water Details

Water ID: 933484726
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 120.0
Water Found Depth UOM: ft

Site:
con 9 ON

Database:
WWIS

Well ID:	1531195	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Domestic	***Data Entry Status:***	
Use 2nd:		***Data Src:***	1
Final Well Status:	Water Supply	***Date Received:***	07/17/2000
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	208616	***Contractor:***	1558
Tag:		***Form Version:***	1
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	OTTAWA-CARLETON
Elevatn Reliabilty:		***Lot:***	
Depth to Bedrock:		***Concession:***	09
Well Depth:		***Concession Name:***	CON
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	GOULBOURN TOWNSHIP		
Site Info:			

Bore Hole Information

Bore Hole ID:	10052729	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:		***East83:***	
Code OB Desc:		***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	06/21/2000	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Location Method Desc:	Not Applicable i.e. no UTM		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931077796
Layer:	2
Color:	6
General Color:	BROWN
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	85
Material 2 Desc:	SOFT
Material 3:	
Material 3 Desc:	
Formation Top Depth:	8.0
Formation End Depth:	12.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931077795
Layer:	1

Color: 6
General Color: BROWN
Material 1: 28
Material 1 Desc: SAND
Material 2: 11
Material 2 Desc: GRAVEL
Material 3: 68
Material 3 Desc: DRY
Formation Top Depth: 0.0
Formation End Depth: 8.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931077797
Layer: 3
Color: 2
General Color: GREY
Material 1: 15
Material 1 Desc: LIMESTONE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 12.0
Formation End Depth: 85.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933116369
Layer: 1
Plug From: 0.0
Plug To: 21.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961531195
Method Construction Code: 4
Method Construction: Rotary (Air)
Other Method Construction:

Pipe Information

Pipe ID: 10601299
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930092185
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To:
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID:	930092184
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pumping Test Method Desc:	PUMP
Pump Test ID:	991531195
Pump Set At:	
Static Level:	5.0
Final Level After Pumping:	50.0
Recommended Pump Depth:	61.0
Pumping Rate:	20.0
Flowing Rate:	
Recommended Pump Rate:	5.0
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:	
Flowing:	No

Draw Down & Recovery

Pump Test Detail ID:	934121157
Test Type:	Draw Down
Test Duration:	15
Test Level:	83.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934913422
Test Type:	Draw Down
Test Duration:	60
Test Level:	50.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934396568
Test Type:	Draw Down
Test Duration:	30
Test Level:	75.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934665294
Test Type:	Draw Down
Test Duration:	45
Test Level:	50.0
Test Level UOM:	ft

Water Details

Water ID:	933491558
Layer:	1
Kind Code:	5
Kind:	Not stated
Water Found Depth:	73.0
Water Found Depth UOM:	ft

Site:
con 8 ON

Database:
WWIS

Well ID:	1530577	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Domestic	***Data Entry Status:***	
Use 2nd:		***Data Src:***	1
Final Well Status:	Water Supply	***Date Received:***	07/09/1999
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	194868	***Contractor:***	1558
Tag:		***Form Version:***	1
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	OTTAWA-CARLETON
Elevatn Reliabilty:		***Lot:***	
Depth to Bedrock:		***Concession:***	08
Well Depth:		***Concession Name:***	CON
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	GOULBOURN TOWNSHIP		
Site Info:			

Bore Hole Information

Bore Hole ID:	10052112	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:		***East83:***	
Code OB Desc:		***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	06/11/1999	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Location Method Desc:	Not Applicable i.e. no UTM		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931075939
Layer:	3
Color:	2
General Color:	GREY
Material 1:	28
Material 1 Desc:	SAND
Material 2:	11
Material 2 Desc:	GRAVEL
Material 3:	13
Material 3 Desc:	BOULDERS
Formation Top Depth:	20.0

Formation End Depth: 25.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931075937
Layer: 1
Color: 6
General Color: BROWN
Material 1: 28
Material 1 Desc: SAND
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 8.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931075938
Layer: 2
Color: 2
General Color: GREY
Material 1: 28
Material 1 Desc: SAND
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 8.0
Formation End Depth: 20.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931075942
Layer: 6
Color: 2
General Color: GREY
Material 1: 15
Material 1 Desc: LIMESTONE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 91.0
Formation End Depth: 175.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931075940
Layer: 4
Color: 2
General Color: GREY
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:

Material 3:
Material 3 Desc:
Formation Top Depth: 25.0
Formation End Depth: 40.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931075941
Layer: 5
Color: 2
General Color: GREY
Material 1: 15
Material 1 Desc: LIMESTONE
Material 2: 74
Material 2 Desc: LAYERED
Material 3: 71
Material 3 Desc: FRACTURED
Formation Top Depth: 40.0
Formation End Depth: 91.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933115725
Layer: 1
Plug From: 0.0
Plug To: 20.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961530577
Method Construction Code: 4
Method Construction: Rotary (Air)
Other Method Construction:

Pipe Information

Pipe ID: 10600682
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930090895
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 31.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930090896
Layer: 2
Material: 4

Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 175.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 991530577
Pump Set At:
Static Level: 24.0
Final Level After Pumping: 100.0
Recommended Pump Depth: 150.0
Pumping Rate: 5.0
Flowing Rate:
Recommended Pump Rate: 5.0
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:
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934385134
Test Type: Draw Down
Test Duration: 30
Test Level: 150.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934902688
Test Type: Draw Down
Test Duration: 60
Test Level: 100.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934664070
Test Type: Draw Down
Test Duration: 45
Test Level: 125.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934118958
Test Type: Draw Down
Test Duration: 15
Test Level: 110.0
Test Level UOM: ft

Water Details

Water ID: 933490752
Layer: 2
Kind Code: 5

Kind: Not stated
Water Found Depth: 163.0
Water Found Depth UOM: ft

Water Details

Water ID: 933490751
Layer: 1
Kind Code: 5
Kind: Not stated
Water Found Depth: 50.0
Water Found Depth UOM: ft

Site:
lot 24 ON

Database:
WWIS

Well ID: 1530330
Construction Date:
Use 1st: Livestock
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: 194783
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: GOULBOURN TOWNSHIP
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 12/08/1998
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1558
Form Version: 1
Owner:
County: OTTAWA-CARLETON
Lot: 024
Concession:
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10051865
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 11/06/1998
Remarks:
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock Materials Interval

Formation ID: 931075174
Layer: 2
Color: 2
General Color: GREY
Material 1: 15
Material 1 Desc: LIMESTONE
Material 2:

Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 11.0
Formation End Depth: 90.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931075173
Layer: 1
Color: 6
General Color: BROWN
Material 1: 28
Material 1 Desc: SAND
Material 2: 02
Material 2 Desc: TOPSOIL
Material 3: 12
Material 3 Desc: STONES
Formation Top Depth: 0.0
Formation End Depth: 11.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933115464
Layer: 1
Plug From: 4.0
Plug To: 27.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961530330
Method Construction Code: 2
Method Construction: Rotary (Convent.)
Other Method Construction:

Pipe Information

Pipe ID: 10600435
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930090412
Layer: 2
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 90.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930090411
Layer: 1

Material: 2
Open Hole or Material: GALVANIZED
Depth From:
Depth To: 27.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: BAILER
Pump Test ID: 991530330
Pump Set At:
Static Level: 17.0
Final Level After Pumping: 25.0
Recommended Pump Depth: 70.0
Pumping Rate: 15.0
Flowing Rate:
Recommended Pump Rate: 5.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 2
Pumping Duration HR: 1
Pumping Duration MIN:
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934118329
Test Type: Draw Down
Test Duration: 15
Test Level: 23.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934393317
Test Type: Draw Down
Test Duration: 30
Test Level: 25.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934662467
Test Type: Draw Down
Test Duration: 45
Test Level: 25.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934911011
Test Type: Draw Down
Test Duration: 60
Test Level: 25.0
Test Level UOM: ft

Water Details

Water ID: 933490423
Layer: 1

Kind Code: 5
Kind: Not stated
Water Found Depth: 74.0
Water Found Depth UOM: ft

Water Details

Water ID: 933490424
Layer: 2
Kind Code: 5
Kind: Not stated
Water Found Depth: 86.0
Water Found Depth UOM: ft

Site:
lot 24 con 9 ON

Database: ***WWIS***

Well ID: 1536946
Construction Date:
Use 1st:
Use 2nd:
Final Well Status: Abandoned-Quality
Water Type:
Casing Material:
Audit No: 142239
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: GOULBOURN TOWNSHIP
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 04/13/1994
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1558
Form Version: 1
Owner:
County: OTTAWA-CARLETON
Lot: 024
Concession: 09
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 1007454716
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 02/10/1994
Remarks:
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone:
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Site:
lot 25 ON

Database: ***WWIS***

Well ID: 1523747
Construction Date:
Use 1st: Industrial
Use 2nd:
Final Well Status: Water Supply
Water Type:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 08/04/1989
Selected Flag: TRUE

Casing Material:
Audit No: 49862
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: OTTAWA CITY
Site Info:

Abandonment Rec:
Contractor: 3644
Form Version: 1
Owner:
County: OTTAWA-CARLETON
Lot: 025
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10045521
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 06/12/1989
Remarks:
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock Materials Interval

Formation ID: 931055592
Layer: 1
Color: 2
General Color: GREY
Material 1: 05
Material 1 Desc: CLAY
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 32.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931055593
Layer: 2
Color: 2
General Color: GREY
Material 1: 15
Material 1 Desc: LIMESTONE
Material 2: 82
Material 2 Desc: SHALY
Material 3:
Material 3 Desc:
Formation Top Depth: 32.0
Formation End Depth: 250.0

Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961523747
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10594091
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930079668
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 250.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930079667
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 36.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 991523747
Pump Set At:
Static Level: 19.0
Final Level After Pumping: 100.0
Recommended Pump Depth: 100.0
Pumping Rate: 14.0
Flowing Rate:
Recommended Pump Rate: 14.0
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
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934651310

Test Type:
Test Duration: 45
Test Level: 100.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934106105
Test Type:
Test Duration: 15
Test Level: 100.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934390332
Test Type:
Test Duration: 30
Test Level: 100.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934908516
Test Type:
Test Duration: 60
Test Level: 100.0
Test Level UOM: ft

Water Details

Water ID: 933482123
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 225.0
Water Found Depth UOM: ft

Water Details

Water ID: 933482122
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 60.0
Water Found Depth UOM: ft

Site:
lot 23 ON

Database:
WWIS

Well ID: 1525460
Construction Date:
Use 1st: Domestic
Use 2nd:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 91548
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 06/14/1991
Selected Flag: TRUE
Abandonment Rec:
Contractor: 3749
Form Version: 1
Owner:
County: OTTAWA-CARLETON
Lot: 023
Concession:
Concession Name:

Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: GOULBOURN TOWNSHIP
Site Info:

Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10047198
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 05/13/1991
Remarks:
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock Materials Interval

Formation ID: 931061218
Layer: 2
Color: 2
General Color: GREY
Material 1: 15
Material 1 Desc: LIMESTONE
Material 2: 73
Material 2 Desc: HARD
Material 3: 78
Material 3 Desc: MEDIUM-GRAINED
Formation Top Depth: 4.0
Formation End Depth: 105.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931061217
Layer: 1
Color: 6
General Color: BROWN
Material 1: 05
Material 1 Desc: CLAY
Material 2: 12
Material 2 Desc: STONES
Material 3: 14
Material 3 Desc: HARDPAN
Formation Top Depth: 0.0
Formation End Depth: 4.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933111214
Layer: 1

Plug From: 0.0
Plug To: 7.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933111215
Layer: 2
Plug From: 7.0
Plug To: 21.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961525460
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10595768
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930082637
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 105.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930082636
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 21.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: BAILER
Pump Test ID: 991525460
Pump Set At:
Static Level: 6.0
Final Level After Pumping: 85.0
Recommended Pump Depth: 95.0
Pumping Rate: 10.0
Flowing Rate:
Recommended Pump Rate: 5.0
Levels UOM: ft

Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 2
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934112283
Test Type: Draw Down
Test Duration: 15
Test Level: 35.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934905824
Test Type: Draw Down
Test Duration: 60
Test Level: 85.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934648644
Test Type: Draw Down
Test Duration: 45
Test Level: 75.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934387687
Test Type: Draw Down
Test Duration: 30
Test Level: 55.0
Test Level UOM: ft

Water Details

Water ID: 933484459
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 101.0
Water Found Depth UOM: ft

Site:
lot 24 con 9 ON

Database: ***WWIS***

Well ID: 1536947
Construction Date:
Use 1st:
Use 2nd:
Final Well Status: Abandoned-Quality
Water Type:
Casing Material:
Audit No: 142238
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 04/13/1994
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1558
Form Version: 1
Owner:
County: OTTAWA-CARLETON
Lot: 024

Depth to Bedrock:		***Concession:***	09
Well Depth:		***Concession Name:***	CON
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	GOULBOURN TOWNSHIP		
Site Info:			

Bore Hole Information

Bore Hole ID:	1007454717	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	
Code OB:		***East83:***	
Code OB Desc:		***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	02/10/1994	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Location Method Desc:	Not Applicable i.e. no UTM		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Site:
lot 24 ON

Database:
WWIS

Well ID:	1525842	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Domestic	***Data Entry Status:***	
Use 2nd:		***Data Src:***	1
Final Well Status:	Water Supply	***Date Received:***	11/22/1991
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	91579	***Contractor:***	3749
Tag:		***Form Version:***	1
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	OTTAWA-CARLETON
Elevatn Reliabilty:		***Lot:***	024
Depth to Bedrock:		***Concession:***	
Well Depth:		***Concession Name:***	
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	GOULBOURN TOWNSHIP		
Site Info:			

Bore Hole Information

Bore Hole ID:	10047577	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:		***East83:***	
Code OB Desc:		***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	10/09/1991	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Location Method Desc:	Not Applicable i.e. no UTM		
Elevrc Desc:			
Location Source Date:			

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

Overburden and Bedrock Materials Interval

Formation ID: 931062450
Layer: 1
Color: 6
General Color: BROWN
Material 1: 14
Material 1 Desc: HARDPAN
Material 2: 79
Material 2 Desc: PACKED
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 6.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931062451
Layer: 2
Color: 2
General Color: GREY
Material 1: 15
Material 1 Desc: LIMESTONE
Material 2: 73
Material 2 Desc: HARD
Material 3: 78
Material 3 Desc: MEDIUM-GRAINED
Formation Top Depth: 6.0
Formation End Depth: 150.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933111393
Layer: 1
Plug From: 4.0
Plug To: 22.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961525842
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10596147
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930083287
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 22.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: BAILER
Pump Test ID: 991525842
Pump Set At:
Static Level: 42.0
Final Level After Pumping: 125.0
Recommended Pump Depth: 142.0
Pumping Rate: 6.0
Flowing Rate:
Recommended Pump Rate: 6.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 2
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934105627
Test Type: Draw Down
Test Duration: 15
Test Level: 86.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934389284
Test Type: Draw Down
Test Duration: 30
Test Level: 118.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934649814
Test Type: Draw Down
Test Duration: 45
Test Level: 125.0
Test Level UOM: ft

Water Details

Water ID: 933484965
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 145.0
Water Found Depth UOM: ft

Water Details

Water ID:	933484964
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	81.0
Water Found Depth UOM:	ft

Site:
lot 23 ON

Database:
WWIS

Well ID:	1528156	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Domestic	***Data Entry Status:***	
Use 2nd:		***Data Src:***	1
Final Well Status:	Water Supply	***Date Received:***	09/27/1994
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	147502	***Contractor:***	4006
Tag:		***Form Version:***	1
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	OTTAWA-CARLETON
Elevatn Reliabilty:		***Lot:***	023
Depth to Bedrock:		***Concession:***	
Well Depth:		***Concession Name:***	
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	GOULBOURN TOWNSHIP		
Site Info:			

Bore Hole Information

Bore Hole ID:	10049695	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:		***East83:***	
Code OB Desc:		***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	08/03/1994	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Location Method Desc:	Not Applicable i.e. no UTM		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931068759
Layer:	3
Color:	8
General Color:	BLACK
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	71
Material 2 Desc:	FRACTURED
Material 3:	
Material 3 Desc:	
Formation Top Depth:	35.0

Formation End Depth: 38.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931068757
Layer: 1
Color: 6
General Color: BROWN
Material 1: 02
Material 1 Desc: TOPSOIL
Material 2: 28
Material 2 Desc: SAND
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 3.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931068760
Layer: 4
Color: 2
General Color: GREY
Material 1: 15
Material 1 Desc: LIMESTONE
Material 2: 78
Material 2 Desc: MEDIUM-GRAINED
Material 3: 71
Material 3 Desc: FRACTURED
Formation Top Depth: 38.0
Formation End Depth: 44.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931068762
Layer: 6
Color: 2
General Color: GREY
Material 1: 15
Material 1 Desc: LIMESTONE
Material 2: 73
Material 2 Desc: HARD
Material 3:
Material 3 Desc:
Formation Top Depth: 50.0
Formation End Depth: 120.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931068761
Layer: 5
Color: 2
General Color: GREY
Material 1: 15
Material 1 Desc: LIMESTONE
Material 2: 78
Material 2 Desc: MEDIUM-GRAINED

Material 3:
Material 3 Desc:
Formation Top Depth: 44.0
Formation End Depth: 50.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931068758
Layer: 2
Color: 3
General Color: BLUE
Material 1: 05
Material 1 Desc: CLAY
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 3.0
Formation End Depth: 35.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933113011
Layer: 1
Plug From: 5.0
Plug To: 50.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961528156
Method Construction Code: 4
Method Construction: Rotary (Air)
Other Method Construction:

Pipe Information

Pipe ID: 10598265
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930086853
Layer: 1
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 50.0
Casing Diameter: 10.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930086855
Layer: 3
Material: 4

Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 120.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930086854
Layer: 2
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 50.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 991528156
Pump Set At:
Static Level: 4.0
Final Level After Pumping: 79.0
Recommended Pump Depth: 100.0
Pumping Rate: 5.0
Flowing Rate:
Recommended Pump Rate: 5.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934387221
Test Type:
Test Duration: 30
Test Level: 31.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934656549
Test Type:
Test Duration: 45
Test Level: 52.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934905341
Test Type:
Test Duration: 60
Test Level: 79.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934112412
Test Type:
Test Duration: 15
Test Level: 79.0
Test Level UOM: ft

Water Details

Water ID: 933487744
Layer: 1
Kind Code: 5
Kind: Not stated
Water Found Depth: 72.0
Water Found Depth UOM: ft

Water Details

Water ID: 933487745
Layer: 2
Kind Code: 5
Kind: Not stated
Water Found Depth: 114.0
Water Found Depth UOM: ft

Appendix: Database Descriptions

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

Abandoned Aggregate Inventory: Provincial AAGR

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

Government Publication Date: Sept 2002*

Aggregate Inventory: Provincial AGR

This database of licensed and permitted pits and quarries is maintained by the Ontario Ministry of Natural Resources and Forestry (MNRF), as regulated under the Aggregate Resources Act, R.S.O. 1990. Aggregate site data has been divided into active and inactive sites. Active sites may be further subdivided into partial surrenders. In partial surrenders, defined areas of a site are inactive while the rest of the site remains active.

Government Publication Date: Up to Nov 2023

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-Apr 2024

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

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-Apr 30, 2024

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

Certificates of Approval: Provincial CA

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

Government Publication Date: 1985-Oct 30, 2011*

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 2022

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: Oct 2023

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

Chemical Register: 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-Apr 30, 2024

Compressed Natural Gas Stations: Private CNG

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

Government Publication Date: Dec 2012 -Nov 2023

Inventory of Coal Gasification Plants and Coal Tar Sites: Provincial COAL

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

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions: Provincial CONV

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

Government Publication Date: 1989-May 2024

Certificates of Property Use: Provincial CPU

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

Government Publication Date: 1994 - Mar 31, 2024

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 - Aug 2023

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: Oct 2023

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-Apr 30, 2024

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, 2024

Environmental Compliance Approval: Provincial ECA

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

Government Publication Date: Oct 2011-Apr 30, 2024

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-Mar 31, 2024

Environmental Issues Inventory System: Federal EIIS

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

Government Publication Date: 1992-2001*

Emergency Management Historical Event: Provincial EMHE

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

Government Publication Date: Apr 30, 2022

Environmental Penalty Annual Report: 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, 2023

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: Oct 2023

Federal Convictions: Federal FCON

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

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land: Federal FCS

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

Government Publication Date: Jun 2000-Mar 2024

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

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: Oct 31, 2021

Fuel Storage Tank: 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: Oct 2023

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-Oct 31, 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 2021

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 INC

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: 31 Oct, 2023

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: Mar 31, 2022

Canadian Mine Locations: Private MINE

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

Government Publication Date: 1998-2009*

Mineral Occurrences: Provincial MNR

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

Government Publication Date: 1846-Feb 2024

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, 2022

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-Nov 2023

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

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

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES): Federal NEES

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

Government Publication Date: 1974-2003*

National PCB Inventory: Federal NPCB

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

Government Publication Date: 1988-2008*

National Pollutant Release Inventory 1993-2020: Federal NPR2

The National Pollutant Release Inventory (NPRI) is Canada's public inventory of pollutant releases (to air, water and land), disposals, and transfers for recycling. The inventory, managed by Environment and Climate Change Canada, tracks over 300 substances. Under the authority of the Canadian Environmental Protection Act (CEPA), owners or operators of facilities that meet published reporting requirements are required to report to the NPRI.

Government Publication Date: Sep 2020

National Pollutant Release Inventory - Historic: Federal NPRI

Environment Canada has defined the National Pollutant Release Inventory ("NPRI") as a federal government initiative designed to collect comprehensive national data regarding releases to air, water, or land, and waste transfers for recycling for more than 300 listed substances. This data holds historic records; current records are found in NPR2.

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-May 31, 2024

Ontario Oil and Gas Wells: Provincial OOGW

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

Government Publication Date: 1800-Aug 2023

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 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 - Mar 31, 2024

Canadian Pulp and Paper: Private PAP

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

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

Parks Canada Fuel Storage Tanks: Federal PCFT

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

Government Publication Date: 1920-Jan 2005*

Pesticide Register: Provincial PES

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

Government Publication Date: Oct 2011-Apr 30, 2024

NPRI Reporters - PFAS Substances: Federal PFCH

The National Pollutant Release Inventory (NPRI) is Canada's public inventory of releases, disposals, and transfers, tracking over 320 pollutants. Per - and polyfluoroalkyl substances (PFAS) are a group of over 4,700 human-made substances for which adverse environmental and health effects have been observed. This listing of PFAS substance reporters includes those NPRI facilities that reported substances that are found in either: a) the Comprehensive Global Database of PFASs compiled by the Organisation for Economic Co-operation and Development (OECD), b) the US Environmental Protection Agency (US EPA) Master List of PFAS Substances, c) the US EPA list of PFAS chemicals without explicit structures, or d) the US EPA list of PFAS structures (encompassing the largest set of structures having sufficient levels of fluorination to potentially impart PFAS-type properties).

Government Publication Date: Sep 2020

Potential PFAS Handlers from NPRI: Federal PFHA

The National Pollutant Release Inventory (NPRI) is Canada's public inventory of releases, disposals, and transfers, tracking over 320 pollutants. Per - and polyfluoroalkyl substances (PFAS) are a group of over 4,700 human-made substances for which adverse environmental and health effects have been observed. This list of potential PFAS handlers includes those NPRI facilities that reported business activity (NAICS code) included in the US Environmental Protection Agency (US EPA) list of Potential PFAS-Handling Industry Sectors, further described as operating in industry sectors where literature reviews indicate that PFAS may be handled and/or released. Inclusion of a facility in this listing does not indicate that PFAS are being manufactured, processed, used, or released by the facility - these are facilities that potentially handle PFAS based on their industrial profile.

Government Publication Date: Sep 2020

Pipeline Incidents: 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 PTTW's on the registry such as OWRA s. 34 - Permit to take water.

Government Publication Date: 1994 - Mar 31, 2024

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, 1992-2021

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). The Government of Ontario states that it is not responsible for the accuracy of the information in this Registry.

Government Publication Date: 1997-Sept 2001, Oct 2004-May 2024

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-Apr 30, 2024

Scott's Manufacturing Directory: Private SCT

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

Government Publication Date: 1992-Mar 2011*

Ontario Spills: Provincial SPL

List of spills and incidents made available by 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. This database includes spill incidents that occurred in Mar 2023-Mar 2024 in addition to those listed in the Government Publication Date.

Government Publication Date: 1988-Jan 2023; see description

Wastewater Discharger Registration Database: Provincial SRDS

Facilities that report either municipal treated wastewater effluent or industrial wastewater discharges under the Effluent Monitoring and Effluent Limits (EMEL) and Municipal/Industrial Strategy for Abatement Regulations. The Municipal/Industrial Strategy for Abatement (MISA) division of the Ontario Ministry of Environment keeps record of 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.

Government Publication Date: 1990-Dec 31, 2021

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 - Apr 2023

Variances for Abandonment of Underground Storage Tanks: Provincial VAR

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-Apr 30, 2024

Waste Disposal Sites - MOE 1991 Historical Approval Inventory: Provincial WDSH

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

Government Publication Date: Up to Oct 1990*

Water Well Information System: Provincial WWIS

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

Government Publication Date: Dec 31 2023

Definitions

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

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

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

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

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

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

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

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

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

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

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

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