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Phase I - Environmental Site Assessment

5431, 5441, 5465, 5505 and 5571 Fernbank Road
Ottawa, Ontario

Prepared For

Mattamy Homes

January 23, 2018

Report: PE3996-1R

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EXECUTIVE SUMMARY

Assessment

A Phase I – Environmental Site Assessment was carried out for the properties addressed 5431, 5441, 5465, 5505 and 5571 Fernbank Road, in the City of Ottawa, Ontario. The purpose of this environmental assessment was to research the past and current use of the subject site and neighbouring properties and identify any environmental concerns with the potential to have impacted the subject site.

Based on a review of historical sources, the subject site was agricultural fields with associated farmsteads from before 1945 until after 2011, when portions of the site were prepared for residential re-development. Surrounding properties have historically been agricultural but recent residential and commercial development has occurred on the properties to the north, east and west.

The historical review determined that private aboveground storage tanks (ASTs) were present on the subject site but no indications of surficial contamination were observed during associated site visits. Furthermore, investigative boreholes found no indication of sub-surface contamination. Historical potentially contaminating activities (PCAs) were not identified within the Phase I study area.

Following the historical review, three site visits were conducted. The site is currently vacant agricultural land with two residential buildings along Fernbank Road present. At the time of the site visits, in an area to the west of the residential dwelling formerly listed as 5555 Fernbank, some heavy equipment and construction materials were observed. No staining on the ground surface or adverse odours were detected. The site was snow covered at the time of the most recent site visit.

Surrounding land use consists of agricultural, residential and commercial properties. An automotive service garage is present to the east of the subject site but due to its recent construction date (2015), is not considered a concern. No other PCAs were identified within the Phase I study area.

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

Recommendations

It is recommended that the identified construction materials be properly disposed of and that future waste generated onsite be properly stored in preparation for disposal.

1.0 INTRODUCTION

At the request of Mattamy Homes Ltd., Paterson Group (Paterson) conducted a Phase I Environmental Site Assessment (Phase I ESA) of 5431 5441, 5465, 5505 and 5571 Fernbank Road, in the City of Ottawa, Ontario (hereby referred to as the subject site). Note that the property formerly listed as 5555 Fernbank Road, is now incorporated into the 5505 Fernbank Road property. The purpose of this Phase I ESA was to research the past and current use of the subject site and study area and identify any environmental concerns with the potential to have impacted the subject site.

Paterson was engaged to conduct this Phase I ESA by Mr. Connor Gallagher of Mattamy Homes Inc. Mattamy Homes' Ottawa Office is located at 50 Hines Road, Suite 100, Ontario. Mr. Gallagher can be reached by telephone at (613) 831-3520.

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

This Phase I-ESA report has been prepared in general accordance with Ontario Regulation 153/04 as amended by O.Reg. 269/11 (Environmental Protection Act), and also complies with the requirements of CSA Z768-01. The conclusions presented herein are based on information gathered from a limited historical review and field inspection program. The findings of the Phase I - ESA are based on a review of readily available geological, historical and regulatory information and a cursory review made at the time of the field assessment. The historical research relies on information supplied by others, such as, local, provincial and federal agencies and was limited within the scope-of-work, time and budget of the project herein.

2.0 PHASE I PROPERTY INFORMATION

Address: 5431 5441, 5465, 5505 and 5571 Fernbank Road,
Ottawa, Ontario.

Legal Description: 5431 Fernbank Road: Part of Lot 30, Concession 10,
former Township of Goulbourn (City of Ottawa);

5441 Fernbank Road: Concession 10, Part Lot 30;

5465 Fernbank Road: Concession 10, Part Lot 29;

5505 Fernbank Road: Part of Lots 29 and 30,
Concession 10, former Township of Goulbourn (City
of Ottawa);

5571 Fernbank Road: Concession 10, Lot 29 West,
Less Parts 1&2 Registered Plan 5R-10608.

Property Identification

Numbers: 04450-0194, 04550-0432, 04450-2426, 04450-2427,
04450-2466 and 04450-2467.

Location: The subject site is located on the north side of
Fernbank Road, west of Terry Fox Drive, in the City of
Ottawa, Ontario. The subject site is shown on Figure
1 - Key Plan following the body of this report.

Latitude and Longitude: 5431 Fernbank: 45° 16' 23" N, 75° 52' 16" W;

5505 Fernbank: 45° 16' 15" N, 75° 52' 41" W;

Site Description:

Configuration: Irregular.

Site Area: 50 ha (approximate total).

Zoning: 5431 Fernbank Road: I1/R3 – Institutional/Residential
Zone

5441, 5505, 5571 Fernbank Road: DR – Development
Reserve Zone.

Current Use:	The subject site is primarily vacant land with small parts used for construction staging purposes. Two residential dwellings are present along Fernbank Road at 5441 and 5571 Fernbank Road.
Services:	The majority of the subject site is not serviced. The residential dwellings on the subject site are both serviced with private wells and septic systems. The majority of the adjacent properties are serviced with municipal water and sewer.

3.0 SCOPE OF INVESTIGATION

The scope of work for this Phase I – Environmental Site Assessment was as follows:

- Determine the historical activities on the subject site and study area by conducting a review of readily available records, reports, photographs, plans, mapping, databases and regulatory agencies;
- Investigate the existing conditions present at the subject site and study area by conducting site reconnaissance;
- Conduct interviews with persons knowledgeable of current and historic operations on the subject property, and if warranted, neighbouring properties;
- Present the results of our findings in a comprehensive report in general accordance with the requirements of Ontario Regulation 269/11 amending O.Reg. 153/04 made under the Environmental Protection Act and in compliance with the requirements of CSA Z768-01;
- Provide a preliminary environmental site evaluation based on our findings;
- Provide preliminary remediation recommendations and further investigative work if contamination is suspected or encountered.

4.0 RECORDS REVIEW

4.1 General

Phase I-ESA Study Area Determination

A radius of approximately 250 m was determined to be appropriate as a Phase I ESA study area for this assignment. Properties outside the 250 m radius are not considered to have the potential to impact the subject land, based on their significant distance from the site.

First Developed Use Determination

Based on a review of available historic information, the subject site has been used for agricultural (including several farmsteads) purposes since at least 1945.

Fire Insurance Plans

Fire insurance plans (FIPs) are not available for the area of the subject site.

City of Ottawa Street Directories

City street directories from 1979 to 2010, were reviewed at approximate ten (10) year intervals. According to the directories, the subject site was not listed but surrounding properties were listed as residential.

Other Engineering Reports

Paterson and other firms have conducted various environmental assessments on and in the vicinity of the subject site. During a 2010 Phase I ESA, Paterson observed two (2) small aboveground storage tanks (ASTs) on the property addressed 5431 Fernbank Road. Both tanks were empty and not in use. One of the tanks had been brought in from another site and was reportedly never used on site. No staining or adverse odours were detected at the time of the assessments. Paterson advanced a borehole in the vicinity of the second AST to confirm our observations and found no signs of deleterious fill material or petroleum impacts. The presence of used vehicles and construction equipment storage, as well as random fill piles and occasional debris were noted in the other reports. Paterson and others determined that a Phase II ESA was not required at the time of their respective assessments (2010 and 2014).

Geotechnical Investigation

Paterson conducted a geotechnical investigation in conjunction with the ESA completed in 2010. Nine (9) boreholes were advanced in selected locations throughout the subject property. The soil profile generally consisted of cultivated topsoil over approximately 2 m of brown silty sand, underlain by grey clayey silt or silty clay. Groundwater levels were determined to be approximately 2 to 3 m below the surface. No evidence of contaminants or deleterious fill was noted.

Plan of Survey

Paterson was provided a Survey Plan, dated May 31, 2012, prepared by Annis, O'Sullivan, Vollebekk Ltd. The plan depicts the subject site in its current configuration. A copy of the plan is included in Appendix 1 of this report.

4.2 Environmental Source Information

Environment Canada

A search of the National Pollutant Release Inventory (NPRI) was conducted electronically on January 19, 2018. The subject site and surrounding properties are not listed in the NPRI database.

PCB Inventory

A search of national PCB waste storage sites was conducted. No PCB waste storage sites were identified in the Phase I study area.

Ontario Ministry of Environment and Climate Change (MOECC) Instruments

A request was submitted to the MOECC Freedom of Information office for information with respect to certificates of approval, permits to take water, certificates of property use or any other similar MOECC issued instruments for the site in March of 2017 for 5431 and 5505 Fernbank Road. The response contained several certificates of approval relating to storm water management.

A request was submitted to the MOECC Freedom of Information office for information with respect to certificates of approval, permits to take water, certificates of property use or any other similar MOECC issued instruments in January 2018 for the remaining properties. At the time of issuance of the report a response had not been received. A copy of the response will be forwarded to the client, should it contain any pertinent information.

MOECC 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 coal gasification plants were identified within the Phase I study area.

MOECC Incident Reports

A request was submitted to the MOECC Freedom of Information office for information with respect to records concerning environmental incidents, orders, offences, spills, discharges of contaminants or inspections maintained by the MOECC for the site or adjacent properties in March 2017. No incident reports were identified in the MOECC response

At the time of issuance of this report, a response for the 2018 request had not been received. A copy of the response will be forwarded to the client, should it contain any pertinent information.

MOECC Waste Management Records

A request was submitted to the MOECC Freedom of Information office for information with respect to waste management records in March 2017. Applicable information of current and historical waste storage locations, waste generators and waste receivers pursuant to Ontario Regulation 347 was considered in this review. One entry was returned for an active waste class, 252L - Waste Crankcase Oils and Lubricants. The HWIN listing shows that the waste is liquid and subject to offsite disposal. Based on a review of the MOECC FOI response no concerns were identified with the disposal.

At the time of issuance of this report, a response for the 2018 request had not been received. A copy of the response will be forwarded to the client, should it contain any pertinent information.

MOECC Submissions

A request was submitted to the MOECC Freedom of Information office for information with respect to reports related to environmental conditions that have been submitted to the MOECC in March 2017. A review of the MOECC response does not identify any concerns relating to the subject site.

At the time of issuance of this report, a response for the 2018 request had not been received. A copy of the response will be forwarded to the client, should it contain any pertinent information.

MOECC Brownfields Environmental Site Registry

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

MOECC Waste Disposal Site Inventory

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

Areas of Natural Significance

A search for areas of natural significance and features within the Phase I study area was conducted on the web site of the Ontario Ministry of Natural Resources (MNR). No areas of provincial significance were identified on the subject site or in the Phase I study area.

Technical Standards and Safety Authority (TSSA)

The TSSA, Fuels Safety Branch in Toronto was contacted electronically on March 15, 2017 to inquire about current and former underground storage tanks, spills and incidents for the site and neighbouring properties. The response from the TSSA indicated that 5357 Fernbank Road has a record of an active cylinder exchange facility. This is not considered an environmental concern to the subject site.

The TSSA Fuels Safety Branch in Toronto was contacted electronically on January 22, 2018 to inquire about current and former storage tanks, spills and incidents for the site and neighbouring properties. At the time of issuance of the report a response had not been received. A copy of the response will be forwarded to the client, should it contain any pertinent information. A copy of the TSSA correspondence is included in Appendix 2.

City of Ottawa Landfill Document

The document entitled "Old Landfill Management Strategy, Phase I – Identification of Sites, City of Ottawa", was reviewed. No former waste disposal sites were located within the Phase I study area.

City of Ottawa Historical Land Use Inventory (HLUI) Database

A request for information from the City's Historical Land Use Inventory (HLUI 2005) database for the subject site was sent on March 30, 2017 for 5431 and 5505 Fernbank Road to the City of Ottawa. A response was received on April 21, 2017 from the City of Ottawa Planning, Infrastructure and Economic Development Department. Only one activity was identified, listed as present at 5441 Fernbank Road, a part of the Phase I ESA property. The activity is listed as D&S Appliance. The property is considered to be residential and a small appliance repair business is run out of the house. No concerns were identified with the activity listed on the subject site.

4.3 Physical Setting Sources

Aerial Photographs

Historical air photos from the National Air Photo Library were reviewed in approximate ten (10) year intervals. The review period dates back to the first available air photos for the subject site. Based on the review, the following observations have been made:

1945	The subject site is occupied by vacant agricultural fields and associated farmsteads. Surrounding lands are also agricultural fields.
1955	No changes appear to have been made to the subject site or surrounding properties.
1976	(City of Ottawa website) No changes appear to have been made to the subject site or surrounding properties.
1985	No changes appear to have been made to the subject site or neighbouring properties.
1993	No changes appear to have been made to the subject site or neighbouring properties.
2002	No changes appear to have been made to the subject site or neighbouring properties.
2014	The majority of the building structures on the subject site have been removed, with the exception of the dwelling formerly listed as 5555 Fernbank Road and the existing residential dwellings at 5441 Fernbank Road and 5571 Fernbank Road. To the east of the subject site, a commercial complex has been constructed while to the northwest a storm water management pond is present.

Properties further to the east and northwest have been developed with residential dwellings.

2017 (City of Ottawa website) No changes appear to have been made to the subject site. Additional residential development has taken place to the west and north of the subject site.

Laser copies of selected aerial photographs reviewed are included in Appendix 1.

Topographic Maps

Topographic maps were obtained from Natural Resources Canada – The Atlas of Canada website and from the City of Ottawa website. The topographic map depicts the subject site in a residential and agricultural area, with an approximate elevation of 100 m above sea level (asl). Regionally, the topographic maps indicate a downward slope to the southeast. According to the map, the nearest water body is the Carp River, approximately 1500 m to the north. An illustration of the referenced topographic map is presented in 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.” Mapping shows the subject site as situated in an area of limestone plains.

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 limestone and dolomite of the Gull River Formation. The subject site is located in an area of offshore marine sediment of clay and silt, and drift thickness ranges from 3 to 25 m.

Water Well Records

A search of the MOECC’s web site for all drilled well records within 250 m of the subject site was conducted on March 15, 2017. The search identified fifteen (15)

drinking water wells in the Phase I study area. Two wells were identified to be present on the subject site during the site visit, one each at 5441 and 5571 Fernbank Roads. The well records for these wells were identified in the search of the website. No concerns were identified with respect to the well records or potable water wells on the subject site.

Water Bodies and Areas of Natural Significance

No water bodies or areas of natural significance are located on the subject site or within the Phase I study area. The nearest water body is the Carp River, located approximately 1500m to the north of the subject site.

5.0 INTERVIEWS

Property Owners and Representatives

Mr. Connor Gallagher, of Mattamy Homes Ltd., was available to answer questions via email. Mr. Gallagher was not aware of any environmental concerns with respect to the subject site.

Mr. Dan Burnett, the resident of 5441 Fernbank Road, was present during the site visit on January 19, 2018 and was available to answer questions. Mr. Burnett indicated that the property has always been used for residential purposes. Mr. Burnett indicated that the house has been heated with propane or electrical heat to the best of his knowledge. The garage on the property was initially heated with propane, however was switched to furnace oil in approximately 1989. The above ground storage tank was emptied approximately 5 years ago and the furnace is no longer in use. No concerns were identified during the interview with Mr. Burnett.

6.0 SITE RECONNAISSANCE

6.1 General Requirements

Visits to the subject site were conducted on March 13 and 29, 2017 and January 19, 2018 by personnel from the Environmental Department of Paterson Group. In addition to the site, the uses of neighbouring properties were also assessed. The site was partially snow covered at the time of the visit.

6.2 Specific Observations at Phase I Property

Buildings and Structures

The property formerly listed as 5555 Fernbank Road still has a three-storey residential dwelling present. The dwelling was reportedly constructed in 1935 with the south addition completed in the 1970s. The dwelling's main floor is currently used for construction material storage while the 2nd floor, 3rd floor and basement are not used. The 2nd and 3rd floors were observed to be vacant while the basement contained unused water treatment tanks and freezers, along with garbage and debris. An active sump in the original basement was inspected and no indications of contamination were noted. The basement of the addition, its floor being approximately 45-60 cm lower than that of the original basement, had 30-45 cm of standing water present. The dwelling has a poured concrete foundation, wood frame with vinyl siding finish and a sloped shingled roof. Interior building materials included lathe and plaster walls and ceilings, and ceramic tile, vinyl tile, linoleum and hardwood flooring. Insulation was observed to be cellulose blown-in and wood shavings in the second floor ceiling, and pink batt style fibreglass in select locations. Heating for the dwelling was provided by a forced air furnace (currently not functional) that based on previous reports, used fuel oil. Electric baseboards were also observed within the dwelling.

Construction office trailers, storage containers and dumpsters were also present on site. No other buildings or structures were present on the subject site at the time of the site visits.

A two storey wood-framed residential dwelling and a garage were present on 5441 Fernbank Road. The residential building was constructed in 1924 with additions built in the early 1980s. The residential dwelling is heated with a forced air propane furnace and fireplace. A sump pit was observed in the basement with standing water in the pit. No concerns were identified with the water in the sump pit. The ceilings and walls are built with drywall and/or plaster lathe. Stippled plaster ceilings were also observed throughout the residence. The floors consist of vinyl floor tiles, linoleum, ceramic tile, hardwood, and laminate. Lighting is provided by fluorescent and incandescent fixtures. The garage is present to the east of the residential building and is currently used for storage and a small workshop in the rear of the building. The garage was heated using an oil-fired forced air furnace. The AST associated with the forced air furnace was installed in approximately 1989 and last used and emptied around 2012. No signs of staining or concerns relating to the AST and furnace were observed during the site visit. No concerns were identified with the residential building at 5441 Fernbank Road.

A one storey wood-framed residential dwelling was present on 5571 Fernbank Road. The house was constructed in the mid-1950s. The house is heated with a forced air oil furnace and electric baseboard heaters. An above ground fuel oil storage tank is present in the basement of the building. The fuel tank was replaced in 2010. No signs of stains or leakages are present in the area of the fuel tank. A sump pit was observed in the basement with standing water in the pit. No concerns were identified with the water in the sump pit. The tenants of the house did not know of any spills or leaks that had occurred. The walls and ceilings of the house consisted of drywall with stippled plaster present on the ceiling. Flooring consists of carpet, concrete, ceramic tiles, and linoleum. No concerns were identified with the residential building located at 5571 Fernbank Road.

Site Features

The majority of the site is vacant, cleared land. Stockpiled soil was present in various locations throughout the subject site (as a result of nearby construction activities) and a pre-consolidation pile is situated along the northwestern property boundary. A stormwater management pond borders the northwest corner of the subject site and is associated with the Monahan Drain; Branch B bordering the northern property perimeter and Branch 3 bordering the western property perimeter. Site topography is generally flat and regional topography slopes downward to the southeast. Site drainage consists primarily of infiltration.

No evidence of current or former railway or spur lines, nor unidentified substances were observed at the time of the site visits.

Some waste materials were observed to the west of the 5555 former dwelling structure. Waste materials consisted of used tires, a car battery, a propane tank and empty gasoline, oil and anti-freeze containers. No staining or adverse odours were noted around these items. It appears that they have just been stored at this location. This general area was also used for parking of heavy equipment used for site construction purposes. The above-noted site features are shown on Drawing PE3996-1 - Site Plan.

Neighbouring Properties

An inspection of the neighbouring properties was conducted from publicly accessible roadways at the time of the site visit. Land use adjacent to the subject site was as follows:

- North – Monahan Drain Branch C, followed by residential properties;
- South – Fernbank Road, followed by residential/agricultural properties;
- East – Commercial properties (Banking institutions, Bulk Barn, Dollarama, Jiffy Lube, restaurants and Walmart), followed by Terry Fox Drive;
- West – Monahan Drain Branch 3, followed by vacant/under residential re-development lands.

The Jiffy Lube establishment consistently handles used oil and other automotive chemicals and is considered a PCA, but since this is a newer establishment (2015 construction) and is located over 100 m from the site, it is not considered to result in an APEC on the subject site. No other potentially contaminating activities (PCAs) were identified in the vicinity of the subject site.

7.0 REVIEW AND EVALUATION OF INFORMATION

7.1 Land Use History

The following table indicates the current and past uses of the site as well as associated potentially contaminating activities dating back to the first developed use of the site.

Table 1 - Land Use History					
Year	Address	Name of Owner	Description of Property Use	Property Use	Other Observations from Aerial Photos, FIPs, etc.
Prior to 2006	5431	Anthony and Glen van Doormaal	Agricultural fields and associated farmsteads	Agricultural	A barn and silos are present on site.
	5505	- SRI Ltd. - 891748 Ontario Ltd. - Margaret Watters	Agricultural fields and associated farmsteads	Agricultural	The dwelling at 5505 is present. A large barn and other structures are present around 5555.
2006 to 2010	5431	Anthony and Glen van Doormaal	Agricultural fields and associated farmsteads	Agricultural	No other significant observations.
	5505	Mattamy Homes	Agricultural fields and associated farmsteads	Agricultural	The dwelling at 5505 has been removed.
2010 to present	5431	Mattamy Homes	Agricultural fields	Agricultural	The barn and silos have been removed.
	5505	Mattamy Homes	Agricultural fields and associated farmsteads. The northwestern portion is an active construction area.	Agricultural	The large barn and other structures at 5555 have been removed. The soil surface in the northwestern portion appears recently disturbed.

Potentially Contaminating Activities (PCAs)

The area west of the 5555 former dwelling was observed to have some waste materials present, however, no staining or adverse odours were detected in this area. Due to the small quantity of waste materials and absence of visible surface soil and water impacts, the waste storage area is not considered a PCA. No other PCAs were observed on the subject site at the time of the assessment.

The Jiffy Lube to the east of the subject site is considered a PCA but due to its newer construction date (2015) and distance from the subject site, it does not represent an area of potential environmental concern (APEC).

Areas of Potential Environmental Concern (APEC)

No PCAs were identified on the subject site. As well, no PCAs with the potential to impact the subject property were identified on surrounding properties. Therefore, APECs are not considered to be present on the subject site.

Contaminants of Potential Concern (CPCs)

No APECs were identified on the subject site. Therefore, CPCs are not anticipated to be present on the subject site.

7.2 Conceptual Site Model

Geological and Hydrogeological Setting

Based on information from the Geological Survey of Canada, drift thickness is in the range of 3 to 25 m throughout the subject site and overburden soils consist of offshore marine sediments of clay and silt. Bedrock consists of limestone and dolomite of the Gull River Formation. Hydrogeological conditions are anticipated to mimic the topographic setting; as a result, groundwater is expected to flow towards the south. Although, the storm water management pond to the northwest and the Monahan Drain branches to the north and west, may influence groundwater flow.

Contaminants of Potential Concern

As per Section 7.1 of this report, no CPCs were identified on the subject site.

Existing Buildings and Structures

Three residential dwellings and a standalone garage (storage building) are present on the subject site. Due to the age of the buildings, asbestos containing materials (ACMs) and other designated substances may be present. Also on site

are construction office and storage trailers. At the time of the site visits, no other buildings or structures were present on the subject site.

Water Bodies

The Carp River is the nearest water body and is situated approximately 1500 m to the north of the subject site.

Areas of Natural Significance

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

Drinking Water Wells

A total of fifteen (15) drinking water well records were identified in the Phase I study area. Two of these wells are considered to be located on the subject site.

Neighbouring Land Use

Neighbouring land use in the Phase I study area consists of residential, commercial and agricultural. To the north and west are recently constructed, or currently under construction, residential properties; to the south are residential and agricultural properties and to the east are recently constructed (within last 5 years) commercial properties. Land use is shown on Drawing PE3996-2 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 subject property. One (1) PCA was identified within the phase I study area but due to its recent construction and distance from the subject site, is not considered an environmental concern. Therefore, no APECs are present on the subject site.

Assessment of Uncertainty and/or Absence of Information

The information available for review as part of the preparation of this Phase I-ESA is considered to be sufficient to conclude that there are no APECs on the subject site. This information was confirmed by a variety of independent sources, and as such, the conclusions of this report are not affected by uncertainty which may be present with respect to the individual sources.

8.0 CONCLUSIONS

Assessment

A Phase I – Environmental Site Assessment was carried out for the properties addressed 5431, 5441, 5465, 5505 and 5571 Fernbank Road, in the City of Ottawa, Ontario. The purpose of this environmental assessment was to research the past and current use of the subject site and neighbouring properties and identify any environmental concerns with the potential to have impacted the subject site.

Based on a review of historical sources, the subject site was agricultural fields with associated farmsteads and residential dwellings from before 1945 until after 2011, when portions of the site were prepared for residential re-development. Surrounding properties have historically been agricultural but recent residential and commercial development has occurred on the properties to the north, east and west.

The historical review determined that private aboveground storage tanks (ASTs) were present on the subject site but no indications of surficial contamination were observed during associated site visits. Furthermore, investigative boreholes found no indication of sub-surface contamination. Historical potentially contaminating activities (PCAs) were not identified within the Phase I study area.

Following the historical review, three site visits were conducted. The site is currently vacant agricultural land with two residential dwellings along Fernbank Road present. At the time of the site visits, in an area to the west of the residential dwelling formerly listed as 5555 Fernbank, some heavy equipment and construction materials were observed. No staining on the ground surface or adverse odours were detected. The site was snow covered at the time of the most recent site visit.

Surrounding land use consists of agricultural, residential and commercial properties. An automotive service garage is present approximately 100m to the east of the subject site but due to its recent construction date (2015), is not considered a concern. No other PCAs were identified within the Phase I study area.

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

Recommendations

It is recommended that the any waste construction materials be properly disposed of and that future waste generated onsite be properly stored in preparation for disposal

Based on the age of construction of the residential dwellings, if they are to be demolished, a designated substance survey should be conducted in accordance with Ontario Regulation 490/09, under the Occupational Health and Safety Act, if one has not already been completed.

Any potable water wells identified on site should be decommissioned in accordance with Ontario Regulation 903 when they are no longer in use.

9.0 STATEMENT OF LIMITATIONS

This Phase I - Environmental Site Assessment report has been prepared in general accordance with O.Reg. 153/04 as amended by O.Reg. 269/11, and meets the requirements of CSA Z768-01. The conclusions presented herein are based on information gathered from a limited historical review and field inspection program. The findings of the Phase I - ESA are based on a review of readily available geological, historical and regulatory information and a cursory review made at the time of the field assessment. The historical research relies on information supplied by others, such as, local, provincial and federal agencies and was limited within the scope-of-work, time and budget of the project herein.

Should any conditions be encountered at the subject site 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 Mattamy Homes Ltd. Permission and notification from Mattamy Homes and Paterson will be required to release this report to any other party.

Paterson Group Inc.



Michael Beaudoin, P.Eng.



Mark S. D'Arcy, P.Eng.



Report Distribution:

- Mattamy Homes Ltd.
- Paterson Group Inc.

10.0 REFERENCES

Federal Records

Air photos at the Energy Mines and Resources Air Photo Library.
National Archives.
Maps and photographs (Geological Survey of Canada surficial and subsurface mapping).
Natural Resources Canada – The Atlas of Canada.
Environment Canada, National Pollutant Release Inventory.
PCB Waste Storage Site Inventory.

Provincial Records

MOECC Freedom of Information and Privacy Office.
MOECC Municipal Coal Gasification Plant Site Inventory, 1991.
MOECC document titled “Waste Disposal Site Inventory in Ontario”.
MOECC Brownfields Environmental Site Registry.
Office of Technical Standards and Safety Authority, Fuels Safety Branch.
MNRF Areas of Natural Significance.
MOECC Water Well Inventory.

Municipal Records

City of Ottawa Document “Old Landfill Management Strategy, Phase I - Identification of Sites.”, prepared by Golder Associates, 2004.
City of Ottawa Historical Land Use Inventory (HLUI) database.
The City of Ottawa eMap website.

Local Information Sources

Plan of Survey, prepared by Stantec Geomatics, dated November 8, 2016.
Personal Interviews.
Previous Engineering Reports.

Public Information Sources

Google Earth.
Google Maps/Street View.

FIGURES

FIGURE 1 – KEY PLAN

FIGURE 2 – TOPOGRAPHIC MAP

DRAWING PE3996–1R – SITE PLAN

DRAWING PE3996–2R – SURROUNDING LAND USE PLAN

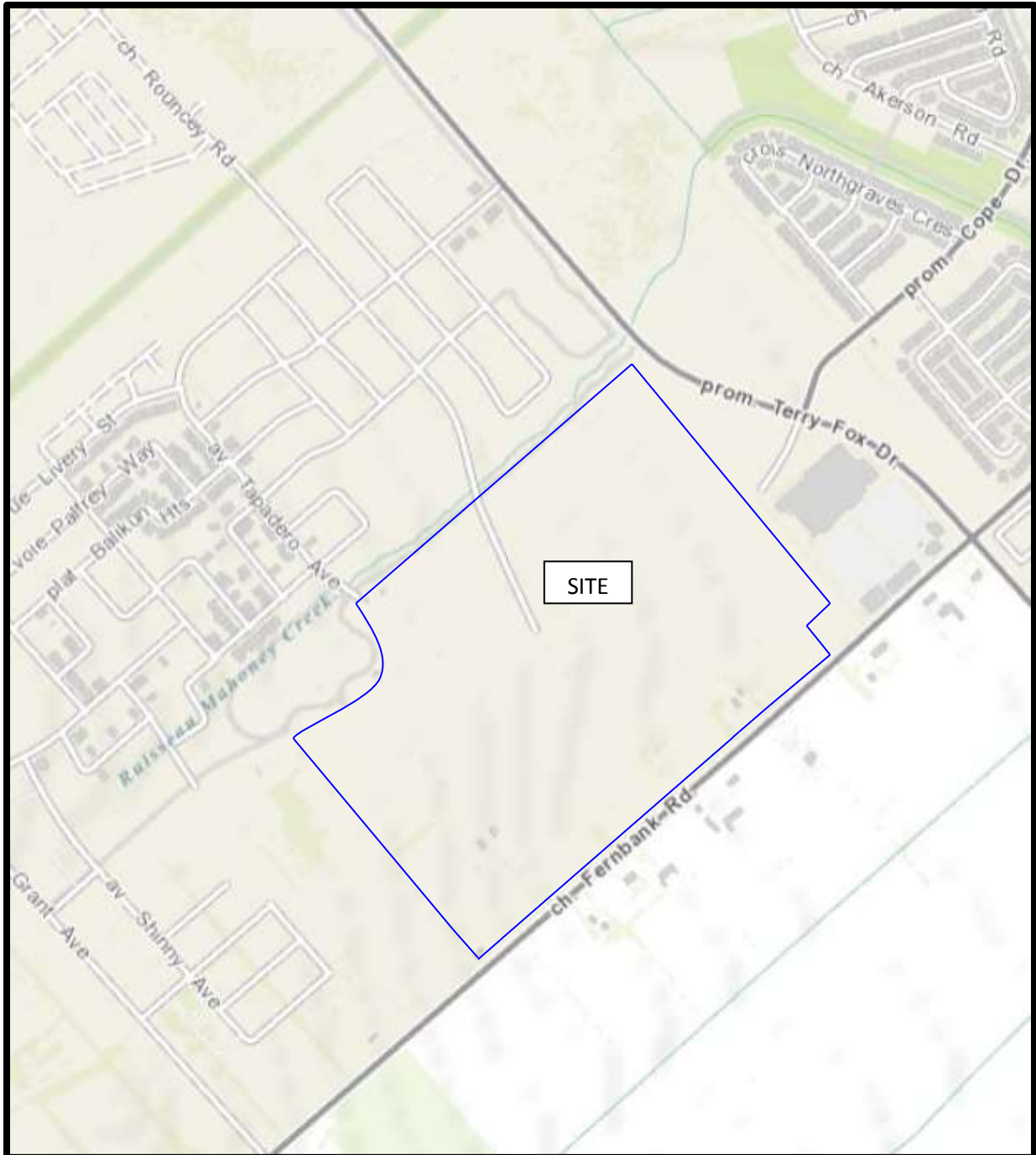


FIGURE 1
KEY PLAN

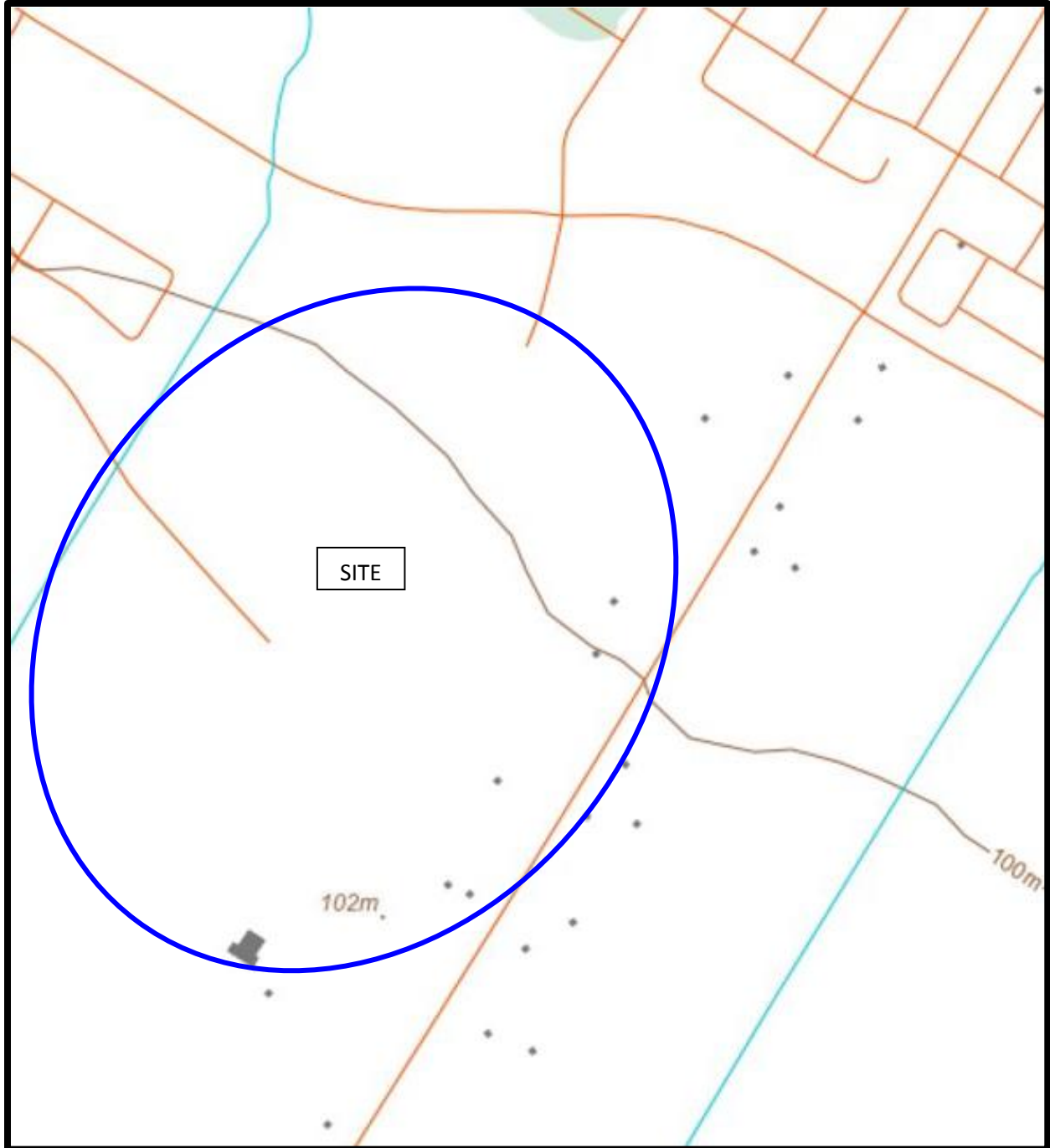
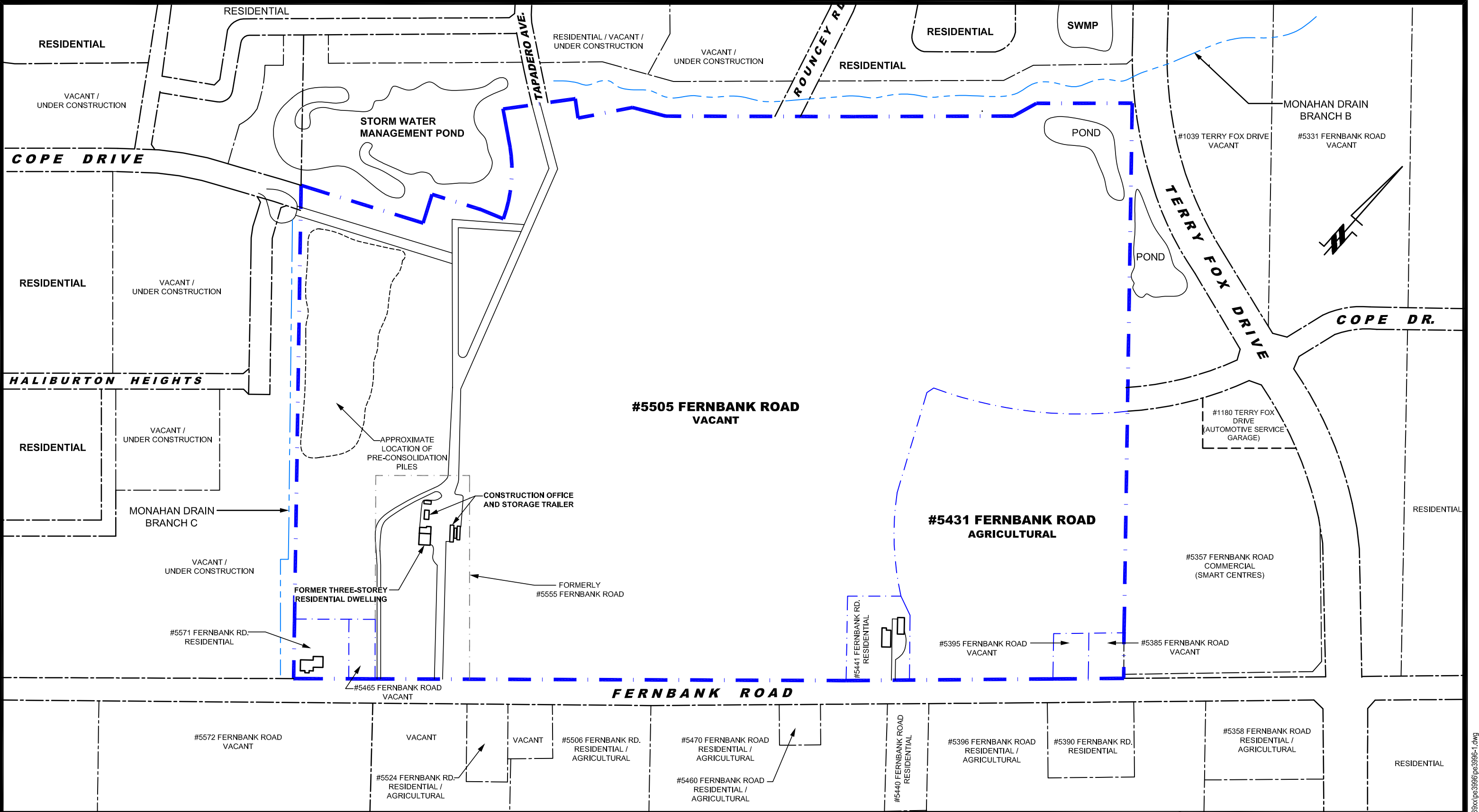


FIGURE 2
TOPOGRAPHIC MAP



patersongroup
consulting engineers

154 Colonnade Road South
Ottawa, Ontario K2E 7J5
Tel: (613) 226-7381 Fax: (613) 226-6344

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NO.	REVISIONS	DATE	INITIAL

MATTAMY HOMES

PHASE I - ENVIRONMENTAL SITE ASSESSMENT

5385,5395,5431,5441,5465,5505 & 5571 FERNBANK ROAD

OTTAWA, ONTARIO

Title:

SITE PLAN

Scale: 1:3000

Drawn by: RCG

Checked by: MB

Approved by: MSD

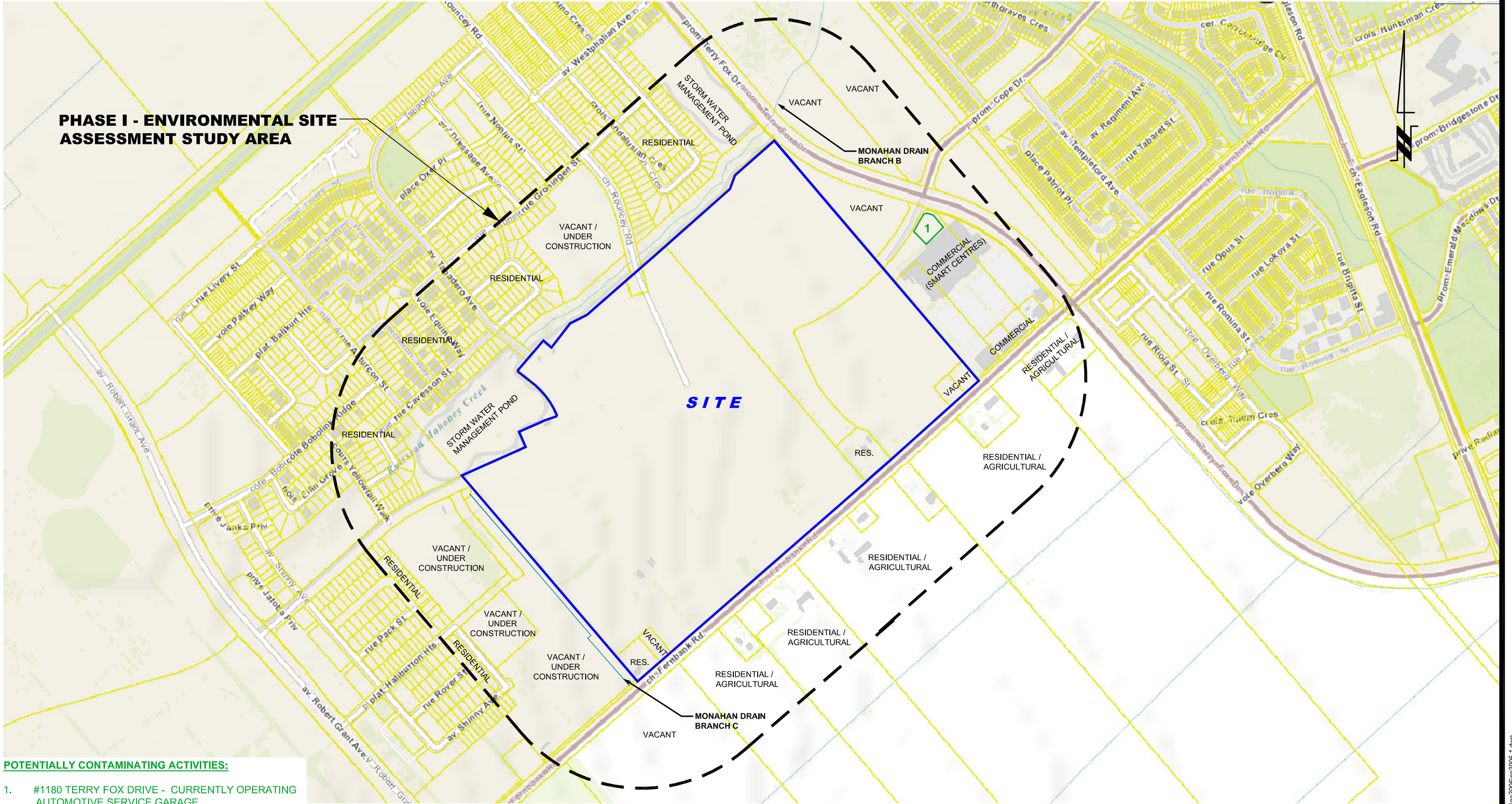
Date: 01/2018

Report No.: PE3996-1R

Dwg. No.: PE3996-1R

Revision No.: 0

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- POTENTIALLY CONTAMINATING ACTIVITIES:**
- #1180 TERRY FOX DRIVE - CURRENTLY OPERATING AUTOMOTIVE SERVICE GARAGE

patersongroup
consulting engineers

154 Colonnade Road South
Ottawa, Ontario K2E 7J5
Tel: (613) 226-7381 Fax: (613) 226-6344

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NO.	REVISIONS	DATE	INITIAL

MATTAMY HOMES
PHASE I - ENVIRONMENTAL SITE ASSESSMENT
5385,5395,5431,5441,5465,5505 & 5571 FERNBANK ROAD
OTTAWA, ONTARIO
Title: **SURROUNDING LAND USE PLAN**

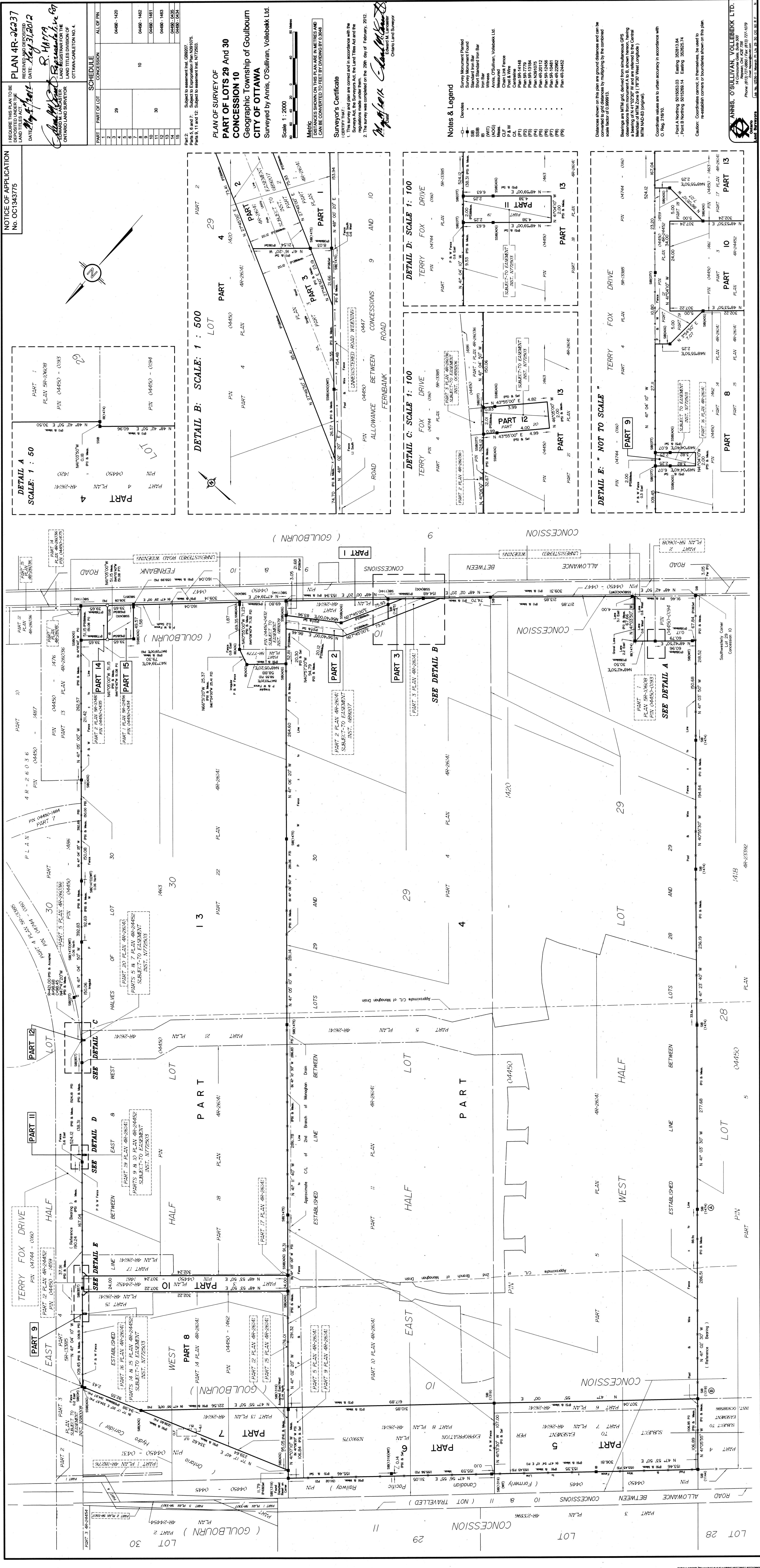
Scale:	~1:7500	Date:	01/2018
Drawn by:	RCG	Report No.:	PE3996-1R
Checked by:	MB	Dwg. No.:	PE3996-2R
Approved by:	MSD	Revision No.:	0

APPENDIX 1

PLAN OF SURVEY

AERIAL PHOTOGRAPHS

SITE PHOTOGRAPHS



NOTICE OF APPLICATION
No. OC134375

REQUIRE THIS PLAN TO BE DEPOSITED UNDER THE LAND REGISTRATION ACT, 1986, AND DEPOSITED WITH THE LAND REGISTRATION OFFICE, ONTARIO, ON OR BEFORE 15/05/2012.

DATE: 15/05/2012

PLAN 4R-26237

RECEIVED AND DEPOSITED

DATE: 15/05/2012

PLAN 4R-26237

RECEIVED AND DEPOSITED
DATE: May 31, 2012
DATE: May 5, 2012

EDWARD M. LANDMASTER
LAND REGISTRAR FOR THE
ONTARIO LAND SURVEYOR
OTTAWA-CARLETON NO. 4.

Edward M. Landmaster
R. 14179

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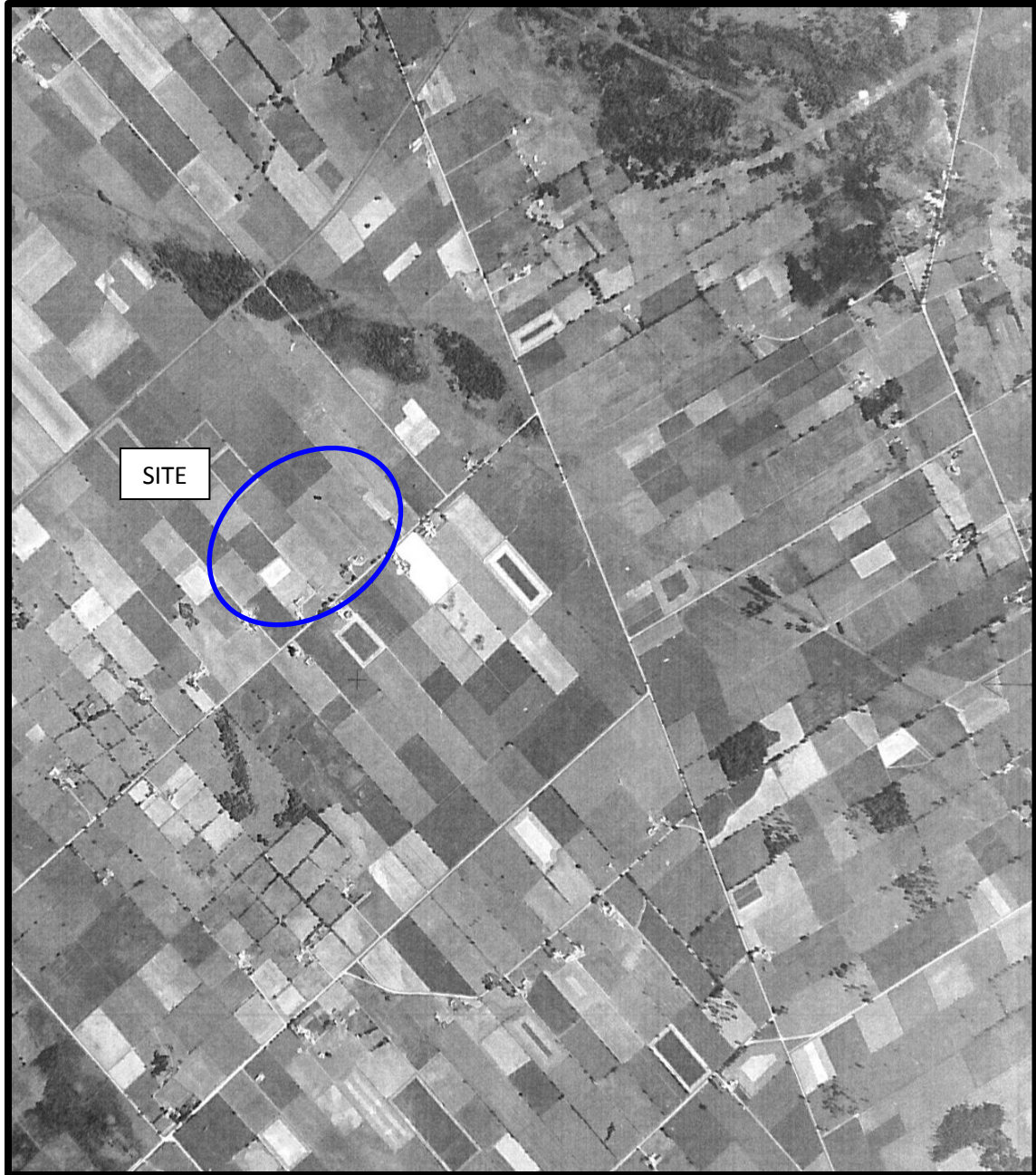
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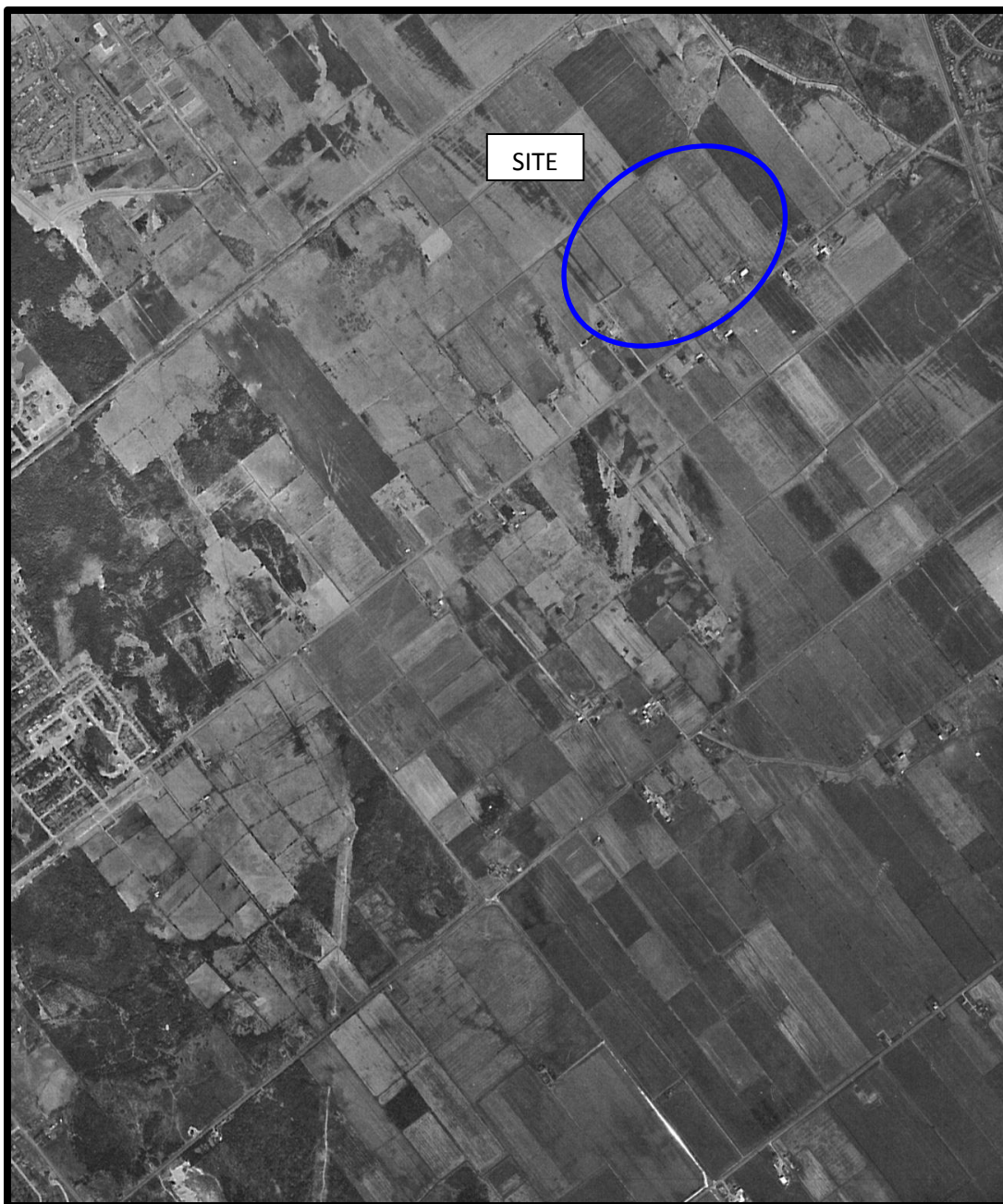
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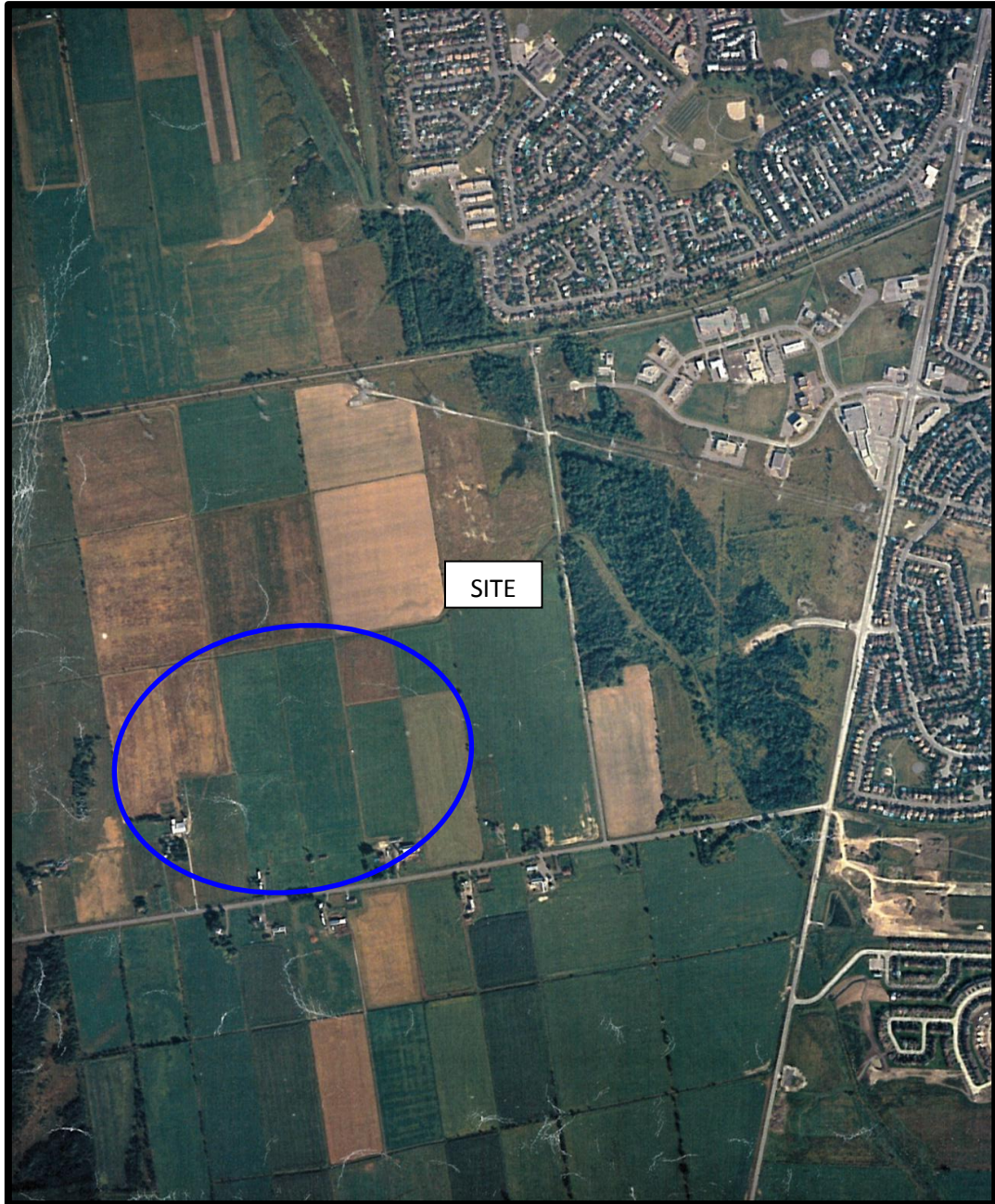
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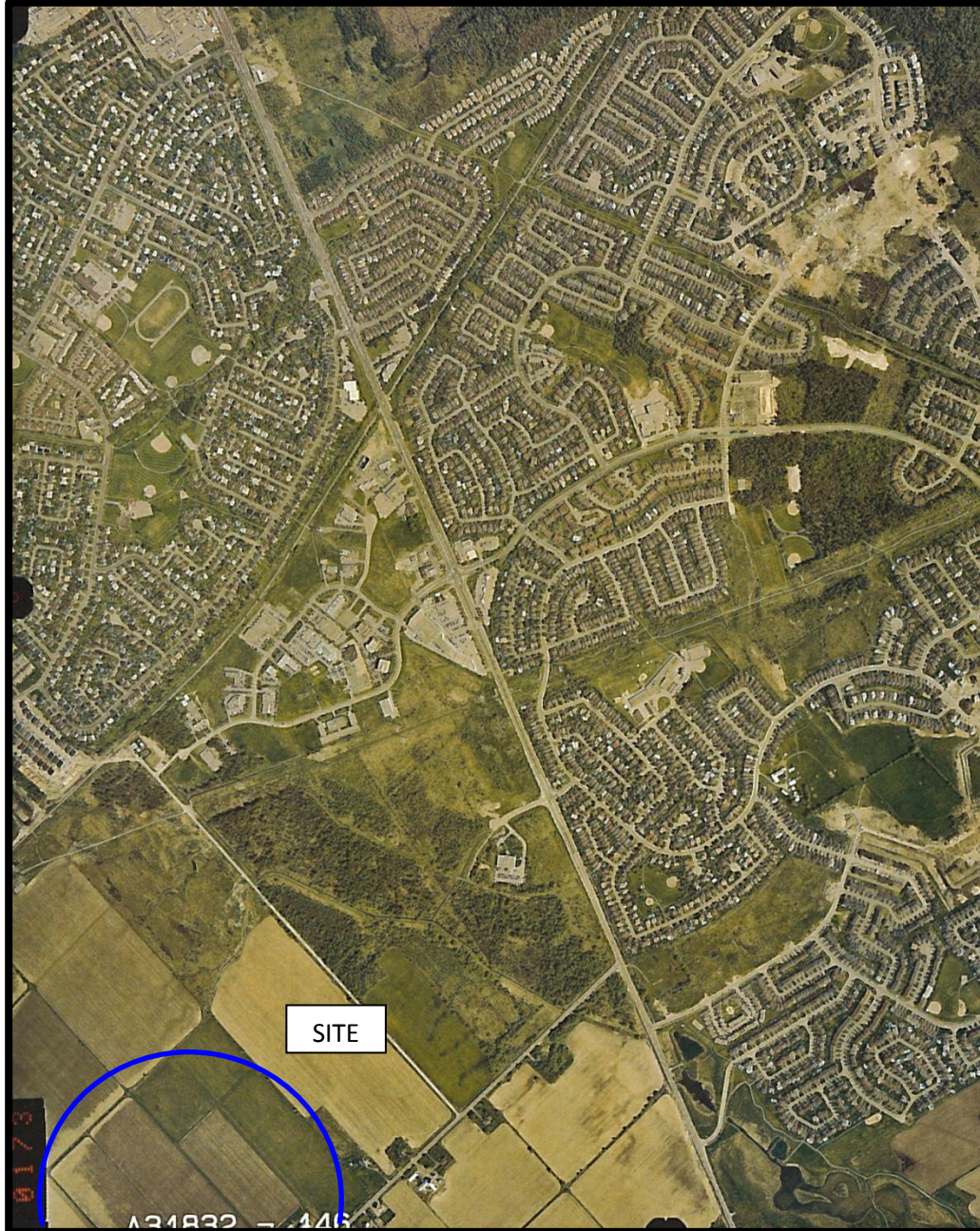
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1955



AERIAL PHOTOGRAPH
1985



AERIAL PHOTOGRAPH
1993



AERIAL PHOTOGRAPH
2002

Site Photographs

PE3996

Fernbank Road, Ottawa, Ontario

March 13 and 29, 2017
January 19, 2018



Photograph 1: View of the east property line of 5431 Fernbank Road, looking south from the west end of Cope Drive.



Photograph 2: View of 5431 and 5505 Fernbank Road, looking west from the west end of Cope Drive. The property boundary separating 5431 and 5505 is approximately in the center of the photograph.

Site Photographs

PE3996

Fernbank Road, Ottawa, Ontario

March 13 and 29, 2017
January 19, 2018



Photograph 3: View of the east property line of 5505 Fernbank Road, looking north from the west end of Cope Drive. Terry Fox Drive can be seen on the right-hand side.



Photograph 4: View of the north property boundary of 5505 Fernbank Road, looking east from the south end of Tapadero Avenue. The Monahan Drain, Branch B, can be seen on the center-right side.

Site Photographs

PE3996

Fernbank Road, Ottawa, Ontario

March 13 and 29, 2017
January 19, 2018



Photograph 5: View of 5505 Fernbank Road, looking south from the south end of Tapadero Avenue.



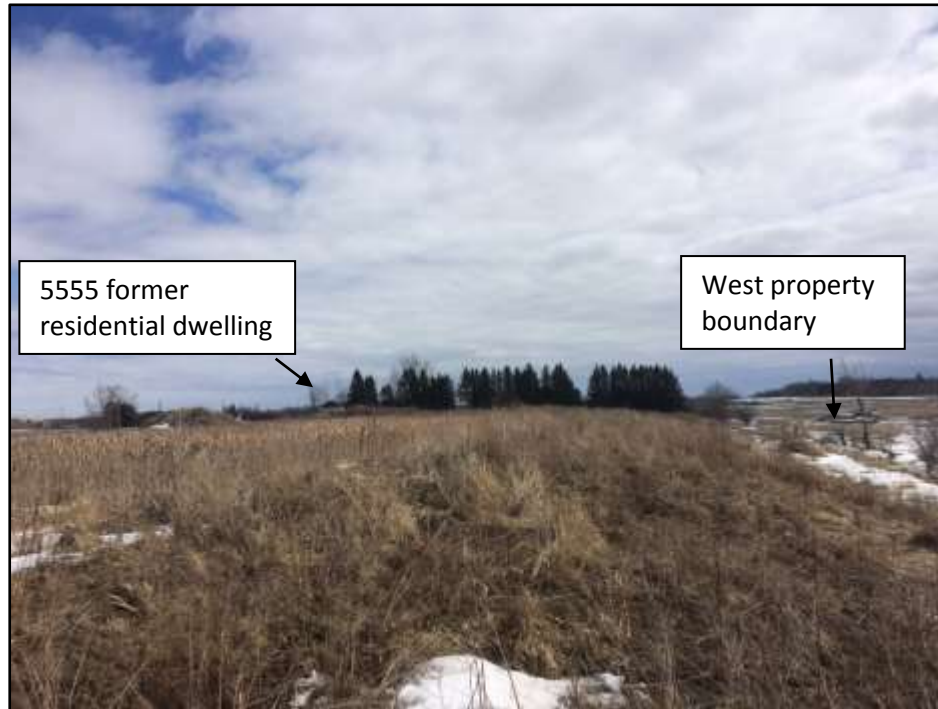
Photograph 6: View of the northwest corner of 5505 Fernbank Road, looking southwest from the south end of Tapadero Avenue. The Storm Water Management Pond associated with the Monahan Drain can be seen in the center of the photograph.

Site Photographs

PE3996

Fernbank Road, Ottawa, Ontario

March 13 and 29, 2017
January 19, 2018



Photograph 7: View of the west property line of 5505 Fernbank Road, looking south from the northwest corner of the property. The photo was taken from the top of the pre-consolidation piles.



Picture 8: View of the southwest corner of the subject site. The residential dwelling formerly listed as 5555 Fernbank Road can be seen in the photo. Looking north from the south side of Fernbank Road.

Site Photographs

PE3996

Fernbank Road, Ottawa, Ontario

March 13 and 29, 2017
January 19, 2018



Picture 9: View of the southwest corner of the subject site. The residential dwelling formerly listed as 5555 Fernbank Road can be seen on the right and used vehicles and equipment in and around the waste storage area can also be seen.



Picture 10: View of the waste storage area. The residential dwelling formerly listed as 5555 Fernbank Road can be seen in the background. No staining or adverse odours were detected in the waste storage area.

Site Photographs

PE3996

Fernbank Road, Ottawa, Ontario

March 13 and 29, 2017
January 19, 2018



Picture 11: The residential dwelling at 5571 Fernbank Road



Picture 12: The residential dwelling and garage at 5441 Fernbank Road.

APPENDIX 2

MOECC FREEDOM OF INFORMATION REQUEST

TSSA CORRESPONDENCE

MOECC WELL RECORDS

Ministry of the Environment
and Climate Change

Freedom of Information and
Protection of Privacy Office

12th Floor
40 St. Clair Avenue West
Toronto ON M4V 1M2
Tel: (416) 314-4075
Fax: (416) 314-4285

Ministère de l'Environnement et de
l'Action en matière de changement
climatique

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

12^e étage
40, avenue St. Clair ouest
Toronto ON M4V 1M2
Tél.: (416) 314-4075
Télééc.: (416) 314-4285



March 27, 2017

Greg van Loenen
Paterson Group Inc.
154 Colonnade Rd.
Ottawa, ON K2E 7J5

Dear Greg van Loenen:

RE: Freedom of Information and Protection of Privacy Act Request
Our File #: A-2017-01757, Your Reference #: PE3996

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 5431 and 5505 Fernbank Rd, Ottawa.

After a thorough search of the Ministry's Ottawa District Office, Investigations and Enforcement Branch, Environmental Approvals Branch, Environmental Monitoring and Reporting Branch, Sector Compliance Branch and Safe Drinking Water Branch, records were located in response to your request. It is my decision to provide full access to the attached information.

In accordance with Section 57 of the *Freedom of Information and Protection of Privacy Act*, detailed below are our charges:

• Search Time 1 hour @ \$30/hour	\$30.00
• Copying 51 pages @ \$0.20/page	\$10.20
• Delivery	\$3.00
• Total	\$ 43.20
• Deposit Received	- 30.00
• BALANCE WAIVED (NOT REQUIRED)	\$13.20

You may request a review of my decision by contacting the Information and Privacy Commissioner/Ontario, 2 Bloor Street East, Suite 1400, Toronto, ON M4W 1A8 (800-387-0073 or 416-326-3333). Please note that there is a \$25.00 fee and you only have 30 days from receipt of this letter to request a review.

If you have any questions regarding this matter, please contact Robert Frost at robert.frost@ontario.ca.

Yours truly,

For: Janet Dadufalza
FOI Manager

Attachments

INCIDENT REPORT

Reference Number:	6666-97CKXX	File Storage Number:	SI OT NE FE 700
Module:	Incident Reporting	Module Type:	Legislation Non-Compliance
Cross Reference:	(doc link)	Task Link:	8180-97CKZB <input type="checkbox"/>
Originating Document:		Created by:	Emily Diamond
Incident Report Reference Number:	6666-97CKXX <input type="checkbox"/>		
Date Created:	2013/05/03	Date Completed:	
Bring Forward Date:		Bring Forward Reason:	
Status:	Recommended		
Program	Waste - Hazardous & Liquid Industrial	Activity:	General (No related specific activity)

Is this an air emission (measured or modelled) or wastewater (sewage) discharge exceedance that will become part of the Environmental Compliance Report?

(legislation, certificate of approval, order, or guideline)

☐ Yes
 ☒ No
 ☐ To be determined

[Click here for Guidance](#)

Caller or PO Information

Reported By:			
	First Name	Last Name	
	Emily	Diamond	
Contact Mailing Address			
Municipality:			
Ottawa			

Reported By:	
--------------	--

MOE Information

Date & Time Reported to MOE:	2013/05/03 11:17		
Office Receiving Incident Report:	Eastern Region		
Incident Info Received By:	Emily Diamond		
MOE Response:	No Field Response	Site Region:	Eastern
Date & Time of MOE Arrival at Scene:			
Master Incident Report Number:			
SAC Action Class:			
Non-Standard Procedure:	No		
ERP Call-out Initiated:			

Client(s)**Client Details**

Monarch Corporation<UNOFFICIAL>, Business/Facility Name:
Mailing Address: , , , Ontario, Canada
Physical Address: Lot: , Part: , , , Ontario, Canada
Telephone: , FAX:
Client Type: , NAICS:

Site(s)**Site Details**

Monarch Corporation<UNOFFICIAL>
Address: Lot: , Part: , 5505 Fernbank Road, Ottawa, City,
District Office: Ottawa

Incident Information

Incident Summary:	HWIN Expired Generator <i>cannot be longer than 60 characters</i>
Incident Description:	ON2859140 - Generator number for Monarch Corporation. July 15- spoke with Mike - site no longer generating waste - will submit for closure - mailed closure info July 23 - spoke with Mike, needs to mail in cheque to close site, will take a few days for cheque to arrive, but closure submitted Company has been contacted. File closed.

Links & Comments:	
Attachments Names:	

Date & Time of Incident	Incident Date Confirmation? Actual 2013/05/03		
Source Type:		Sector Type:	
Nearest Watercourse:		Watershed Category Code:	
Environmental Impact:			
Nature of Impact:			
Incident Event:		Incident Reason:	
Damaged Party:	No		

Contaminants Table

Contaminant Name	Code	UN#	Limit	Quantity	[units]	[freq]

Controller of Material:						Owner of Material:			
Estimated Clean Up Cost:						Who Cleaned Up:			
% Clean Up:		%				MOE/Other Agencies Involved:			

Voluntary / Mandatory Abatement

Is there Voluntary Abatement Activity?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	<input type="radio"/> To be determined
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Voluntary / Mandatory Compliance Items

Type	Parent RefNo	Work Summary (may be truncated)	Date	AttainList
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Offence(s)

Suspected Violation(s)/Offence(s):	
Act - Regulation - Section, Description {General Offence}	

Provincial Officer:

Name: Emily Diamond
Badge No:

Work Unit:
District/Area Office: Eastern Region
Date: 2014/01/03

Signature:

District/Area Supervisor:

Name:

Work Unit:
District/Area Office:
Date:

Signature:



ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 2931-9U3TBC
Issue Date: February 26, 2015

2129786 Ontario Limited
135 Michael Cowpland Drive, Suite 300
Kanata, Ontario
K2M 2E9

Site Location: Blackstone Community - Phases 2 and 3
5431 Fernbank Road
Part of Lots 29 and 30, Concession 10
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 sewers to be constructed in the City of Ottawa, on Rouncey Road (from Station 0+030.7 to Station 0+080);

all in accordance with the application from 2129786 Ontario Limited, dated November 18, 2014, including final plans and specifications prepared by Stantec Consulting 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
2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5

* 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) 314-3717 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 26th day of February, 2015



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

DN/

c: District Manager, MOECC Ottawa District Office
M. Rick O'Connor, Clerk, City of Ottawa (File No. D07-16-11-0023)
Damien Whittaker, P. Eng., Senior Engineer, Development Review Process, City of Ottawa
Patrick Lewis, Program Manager, Infrastructure Services
Peter Moroz, P. Eng., Stantec Consulting Ltd.

ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 2105-9BQJD3

Issue Date: September 23, 2013

2129786 Ontario Limited
3584 Jockvale Road
Nepean, Ontario
K2C 3H2

Site Location: Blackstone in the Fernbank Community
Lot 29 and 30, Concession 10, Goulbourn
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:

establishment of temporary stormwater management Works for the collection, treatment and disposal of stormwater run-off, and dewatering sewage, if necessary, directly related to the site grading and initial construction of the Blackstone Community residential subdivision, located west of Terry Fox Drive, north of the Monahan Drain in the City of Ottawa, within the Jock River watershed, to provide Enhanced Level water quality control and erosion protection during development of the subdivision, consisting of the following:

temporary sedimentation pond (catchment area 34.52 hectares): - one (1) wet pond at the proposed location of future Pond 7 in the Blackstone Community, having a permanent pool volume of 22,063 m³, an extended detention volume of 6,065 m³, discharging through a temporary outlet to the existing Monahan Drain, just upstream of Terry Fox Drive, including temporary drainage swales on the construction site to direct all stormwater run-off from the site to the temporary sedimentation pond;

including all controls and appurtenances essential for the proper operation of the aforementioned Works;

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

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;

"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;

"District Manager" means the District Manager of the Ottawa office of the Ministry;

"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;

"Owner" means 2129786 Ontario Limited and includes their successors and assignees;

"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) 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 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.
- (4) 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.
- (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.
- (6) 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.

(7) This Approval is for the temporary treatment and disposal of stormwater run-off from a drainage area of approximately 34.52 hectares to be ultimately serviced by a future permanent stormwater management facility, identified as Pond 7, in the Blackstone Community. It is expected that an application for an amendment to this Approval to establish the permanent stormwater management Works for the subdivision development, including Pond 7, will be made within two (2) years.

2. EXPIRY OF APPROVAL

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.

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;

(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, the Owner shall notify the succeeding owner in writing of the existence of this Approval, and a copy of such notice shall be forwarded to the District Manager and the Director.

4. TEMPORARY EROSION AND SEDIMENT CONTROL

(1) The Owner shall install and maintain the 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.

5. **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"

1. Application for Environmental Compliance Approval, dated July 29, 2013 and received on August 8, 2013, submitted by the City of Ottawa;
2. Engineering Drawings 9 and 10, dated July 15, 2013, prepared by David Schaeffer Engineering Ltd.;
3. Drawing Figure 1, dated July 31, 2013, prepared by David Schaeffer Engineering Ltd.;
4. Copy of a letter from Jennifer Ailey of David Schaeffer Engineering Ltd. to the City of Ottawa, dated July 30, 2013;
5. Drainage Area Plan, Sediment Basin Stage Storage Table and other supporting calculations, submitted by David Schaeffer Engineering Ltd.; and
6. E-mail from Jennifer Ailey of David Schaeffer Engineering Ltd. to the Ministry, dated August 23, 2013.

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 continues to operate the Works in compliance with it.
4. Condition 4 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.
5. Condition 5 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

AND

The Director appointed for the purposes of
Part II.1 of the Environmental Protection Act
Ministry of the Environment
2 St. Clair Avenue West, Floor 12A

Toronto, Ontario
MSG 1E5

Toronto, Ontario
M4V 1L5

*** 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) 314-3717 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 23rd day of September, 2013



Edgardo Tovilla
Director
appointed for the purposes of Part II.1 of the
Environmental Protection Act

DC/

c: DWMD Supervisor, MOE Ottawa office
District Manager, MOE Ottawa office
Jennifer Ailey, David Schaeffer Engineering Ltd.

AMENDED ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 3241-9FJRQ7

Issue Date: January 23, 2014

2129786 Ontario Limited
3584 Jockvale Road
Nepean, Ontario
K2C 3H2

Site Location: Pond 7 in Blackstone in the Fernbank Community
Lot 29 and 30, Concession 10, Goulbourn
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:

establishment of stormwater management Works for the collection, treatment and disposal of stormwater run-off, and dewatering sewage, if necessary, from part of the Blackstone residential subdivision in the Fernbank Community, located west of Terry Fox Drive, immediately north of the Monahan Drain in the City of Ottawa, within the Jock River watershed, (Reference Approval 2015-9F4KE8, issued January 14, 2014 for the storm and sanitary sewers for Blackstone - Phases 2 and 3), to provide Enhanced Level water quality control and erosion protection, and to attenuate post-development peak flows to target release rates established for the 2-year to 100-year storm events in the Conceptual Servicing Study for Blackstone Phases 2, 3 and 4 North, dated November 2011, prepared by IBI Group, consisting of the following:

Proposed Works:

stormwater management facility (Pond 7 - catchment area 35.86 hectares): - one (1) wet pond with a sediment forebay, essentially replacing the temporary sedimentation pond previously approved for the catchment area, identified below, having a permanent pool volume of 20,583 m³, an extended detention volume of 2,091 m³, and a total storage volume of approximately 36,246 m³, including the permanent pool volume, at a total depth of approximately 3 m, discharging to the existing Monahan Drain just upstream of Terry Fox Drive, and draining via the Jock River and the Rideau River to the Ottawa River;

Previous Works:

temporary sedimentation pond (catchment area 34.52 hectares): - one (1) wet pond at the proposed location of future Pond 7 in Blackstone in the Fernbank Community, having a permanent pool volume of 22,063 m³, an

extended detention volume of 6,065 m³, discharging through a temporary outlet to the existing Monahan Drain, just upstream of Terry Fox Drive, including temporary drainage swales on the construction site to direct all stormwater run-off from the site to the temporary sedimentation pond;

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 supporting documents listed in Schedule "A" forming part of this Approval.

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;

"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;

"District Manager" means the District Manager of the Ottawa office of the Ministry;

"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;

"Owner" means 2129786 Ontario Limited and includes their successors and assignees;

"Previous Works" means those portions of the sewage Works previously approved under an Approval;

"Water Supervisor" means the 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 City of Ottawa as the operating authority of the site as part of 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.

(8) This Approval is for the treatment and disposal of stormwater run-off from a drainage area of 35.86 hectares of Blackstone Phases 2 and 3 draining to Pond 7 in the Fernbank Community, assuming an average imperviousness of 51%. Any changes within the total drainage area that might increase the required storage volumes or increase the flows to or from the wet pond or any physical/structural changes to the wet pond including the inlets or outlets will require an amendment to this Approval.

2. EXPIRY OF APPROVAL

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.

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;

(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 in ownership to the municipality, i.e. assumption of the Works, the Owner shall notify the succeeding owner in writing of the existence of this Approval, and a copy of such notice shall be forwarded to the District Manager and the Director.

(3) Notwithstanding any other requirements in this Approval, upon transfer of the ownership of the Works to a municipality, if applicable, any reference to the "District Manager" within the Terms and Conditions of this Approval shall be replaced with "Water Supervisor".

4. OPERATION AND MAINTENANCE

(1) The Owner shall ensure that the design minimum liquid retention volume is maintained at all times.

(2) The Owner shall inspect the Works at least **once a year** and, if necessary, clean and maintain the Works to prevent the excessive build-up of sediments and/or vegetation.

(3) 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 office for inspection by the Ministry. The logbook shall include the following:

(a) the name of the Works

(b) the date and results of each inspection, maintenance and cleaning, including an estimate of the quantity of any materials removed.

5. TEMPORARY EROSION AND SEDIMENT CONTROL

(1) The Owner shall install and maintain the 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. **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"

1. Application for Environmental Compliance Approval, dated July 29, 2013 and received on August 8, 2013, submitted by the City of Ottawa;
2. Engineering Drawings 9 and 10, dated July 15, 2013, prepared by David Schaeffer Engineering Ltd.;
3. Drawing Figure 1, dated July 31, 2013, prepared by David Schaeffer Engineering Ltd.;
4. Copy of a letter from Jennifer Ailey of David Schaeffer Engineering Ltd. to the City of Ottawa, dated July 30, 2013;
5. Drainage Area Plan, Sediment Basin Stage Storage Table and other supporting calculations, submitted by David Schaeffer Engineering Ltd.;
6. E-mail from Jennifer Ailey of David Schaeffer Engineering Ltd. to the Ministry, dated August 23, 2013;
7. Application for Environmental Compliance Approval, dated October 31, 2013 and received on November 6, 2013, submitted by the City of Ottawa;
8. Design Brief for Pond - 7 Blackstone in the Fernbank Community, Monarch Corporation Cardel Homes, dated September 30, 2013, prepared by David Schaeffer Engineering Ltd and J.F. Sabourin and Associates;
9. Set of Engineering Drawings (11 drawings) for Pond 7, Blackstone in the Fernbank Community, dated September 30, 2013, prepared by David Schaeffer Engineering Ltd.; and
10. E-mail from Jennifer Ailey of David Schaeffer Engineering Ltd. to the Ministry, dated January 22, 2014.

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 continues to operate the Works in compliance with it.
4. Condition 4 is included to require that the Works be properly operated and maintained such that the environment is protected.

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

Upon issuance of the environmental compliance approval, I hereby revoke Approval No(s). 2105-9BQJD3 issued on September 23, 2013

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.

Pursuant to subsection 139(3) of the Environmental Protection Act, a hearing may not be required with respect to any terms and conditions in this environmental compliance approval, if the terms and conditions are substantially the same as those contained in an approval that is amended or revoked by this environmental compliance approval.

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
2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5

*** 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) 314-4506 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 23rd day of January, 2014



Edgardo Tovilla
Director
appointed for the purposes of Part II.1 of the
Environmental Protection Act

DC/

c: District Manager, MOE Ottawa office
Water Supervisor, MOE Ottawa office
Jennifer Ailey, P.Eng., David Schaeffer Engineering Ltd (DSEL)

ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 2015-9F4KE8

Issue Date: January 14, 2014

2129786 Ontario Inc.
3584 Jockvale Road
Ottawa, Ontario
K2C 3H2

Site Location: Blackstone Community - Phases 2 and 3
5431 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 along Gloaming Crescent, Block 275, Rouncey Road, Sceptre Road, Groningen Road, Danzig Road, Block 297, Nonius Street, Andalusian Crescent, Dressage Street, Losino Crescent and Tapadero Avenue, in the City of Ottawa, as part of Blackstone Community Subdivision Development project, comprising;

- **storm sewers** to be constructed along Gloaming Crescent (from Station 0+000 to Station 0+326.7) and along Block 275 (from Station 0+009.6 to Station 0+093), discharging to the storm sewer located along Groningen Road;
- **storm sewers** to be constructed along Rouncey Road, from approximately 214 metres south of Danzig Road to Danzig Road, discharging to the storm sewer located along Danzig Road;
- **storm sewers** to be constructed along Rouncey Road, from approximately 90 metres north of Tapadero Avenue to approximately 40 metres north of Danzig Road, discharging to the existing storm sewer located along Westphalian Avenue;
- **storm sewers** to be constructed along Tapadero Avenue, from approximately 116 metres west of Dressage Street to Rouncey Road, discharging to the storm sewer located along Nonius Road;
- **storm sewers** to be constructed along Sceptre Road, from approximately 40 metres east of Tapadero Avenue to Dressage Street, discharging to the storm sewer located along Dressage Street;
- **storm sewers** to be constructed along Groningen Road, from approximately 40 metres east of

Tapadero Avenue to Nonius Road, discharging to the storm sewer located along Nonius Road;

- **storm sewers** to be constructed along Danzing Road, from approximately 15 metres east of Nonius Road to stormwater management pond 7 (Station 0+066.7), discharging to the stormwater management pond 7 located along Block 297;
- **storm sewers** to be constructed along Nonius Street, from Groningen Road to Tapadero Avenue, discharging to the existing storm sewer located along Oxer Place;
- **storm sewers** to be constructed along Andalusian Crescent (from Station 0+006.5 to Station 0+740.2), discharging to the storm sewer located along Danzing Road;
- **storm sewers** to be constructed along Dressage Street, from approximately 40 metres south of Tapadero Avenue to approximately 40 metres north of Groningen Road, discharging to the existing storm sewer located along Oxer Place;
- **storm sewers** to be constructed along Losino Crescent (from Station 0+006.5 to Station 0+489.9), discharging to the existing storm sewer located along Westphalian Avenue;
- **sanitary sewers** to be constructed along Gloaming Crescent (from Station 0+000.0 to Station 0+326.7) and along Block 275 (from Station 0+009.6 to Station 0+093), discharging to the sanitary sewer located along Groningen Road;
- **sanitary sewers** to be constructed along Rouncey Road, from approximately 40 metres north of Tapadero Avenue to approximately 214 metres south of Danzig Road, discharging to the existing sanitary sewer located along Westphalian Avenue;
- **sanitary sewers** to be constructed along Tapadero Avenue, from approximately 116 metres west of Dressage Street to Rouncey Road, discharging to the sanitary sewer located along Nonius Road;
- **sanitary sewers** to be constructed along Sceptre Road, from approximately 40 metres east of Tapadero Avenue to Dressage Street, discharging to the sanitary sewer located along Dressage Street;
- **sanitary sewers** to be constructed along Groningen Road, from approximately 40 metres east of Tapadero Avenue to Nonius Road, discharging to the sanitary sewer located along Nonius Road;
- **sanitary sewers** to be constructed along Danzing Road, from approximately 15 metres east of Nonius Road to Rouncey Road, discharging to the sanitary sewer located along Rouncey Road;
- **sanitary sewers** to be constructed along Danzing Road, from approximately 20 metres east of Rouncey Road to Andalusian Crescent (Station 0+545.2), discharging to the sanitary sewer located along Andalusian Crescent;

- **sanitary sewers** to be constructed along Nonius Street, from Groningen Road to Tapadero Avenue, discharging to the sanitary sewer located along Oxer Place;
- **sanitary sewers** to be constructed along Andalusian Crescent (from Station 0+006.5 to Station 0+740.2), discharging to the existing sanitary sewer located along Westphalian Avenue;
- **sanitary sewers** to be constructed along Dressage Street, from approximately 40 metres south of Tapadero Avenue to approximately 40 metres north of Groningen Road, discharging to the existing sanitary sewer located along Oxer Place;
- **sanitary sewers** to be constructed along Losino Crescent (from Station 0+006.5 to Station 0+489.9), discharging to the existing sanitary sewer located along Westphalian Avenue;

all in accordance with the application from 2129786 Ontario Inc., dated October 17, 2013 and received on November 13, 2013, including final plans and specifications prepared by Stantec Consulting Ltd.

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

1. "Approval " means this Environmental Compliance Approval and any Schedules to it, including the application and supporting documentation;
2. "Director " means any Ministry employee appointed by the Minister pursuant to section 5 of the Part II.1 of the Environmental Protection Act;
3. "Ministry " means the Ontario Ministry of the Environment;
4. "Owner " means 2129786 Ontario Inc., and includes its successors and assignees;
5. "District Manager " means the District Manager of the appropriate local district office of the Ministry, where the Works are geographically located;
6. "Water Supervisor " means the Water Supervisor of the appropriate local office of the Safe Drinking Water Branch of the Ministry, where the Works are geographically located; and
7. "Works " means the sewage works described in the Owner's application, this Approval and in the supporting documentation referred to herein, to the extent approved by 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

- 1.1 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.

- 1.2 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*, the application for *Approval* of the *Works* and the submitted supporting documents and plans and specifications as listed in this *Approval*.
- 1.3 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.
- 1.4 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.
- 1.5 The requirements of this *Approval* are severable. If any requirement of this *Approval*, or the application of any requirement of this *Approval* to any circumstance, is held invalid or unenforceable, the application of such requirement to other circumstances and the remainder of this *Approval* shall not be affected thereby.

2. **EXPIRY OF APPROVAL**

The *Approval* issued by 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*.

3. **CHANGE OF OWNER**

- 3.1 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* ; and
 - (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* .
- 3.2 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* .

- 3.3 Notwithstanding any other requirements in this *Approval* , upon transfer of the ownership or assumption of the *Works* to a municipality if applicable, any reference to the *District Manager* shall be replaced with the *Water Supervisor* .

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. The Condition also advises the *Owners* their responsibility to notify any person they authorized to carry out work pursuant to this *Approval* of the existence of this *Approval*.
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 subsequent owners of the *Works* are made aware of the *Approval* and continue to operate the *Works* in compliance with it.

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

AND

The Director appointed for the purposes of
Part II.1 of the Environmental Protection Act
Ministry of the Environment
2 St. Clair Avenue West, Floor 12A

Toronto, Ontario
MSG 1E5

Toronto, Ontario
M4V 1L5

* 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) 314-3717 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 14th day of January, 2014



Edgardo Tovilla
Director
appointed for the purposes of Part II.1 of the
Environmental Protection Act

II/

c: District Manager, MOE Ottawa District
Water Supervisor, Ottawa, MOE Safe Drinking Water Branch
Peter Moroz, Stantec Consulting Ltd.
Jacek Taracha, Development Review Process, City of Ottawa, File Number: D07-16-11-0023

AMENDED ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 3241-9FJRQ7

Issue Date: January 23, 2014

2129786 Ontario Limited
3584 Jockvale Road
Nepean, Ontario
K2C 3H2

Site Location: Pond 7 in Blackstone in the Fernbank Community
Lot 29 and 30, Concession 10, Goulbourn
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:

establishment of stormwater management Works for the collection, treatment and disposal of stormwater run-off, and dewatering sewage, if necessary, from part of the Blackstone residential subdivision in the Fernbank Community, located west of Terry Fox Drive, immediately north of the Monahan Drain in the City of Ottawa, within the Jock River watershed, (Reference Approval 2015-9F4KE8, issued January 14, 2014 for the storm and sanitary sewers for Blackstone - Phases 2 and 3), to provide Enhanced Level water quality control and erosion protection, and to attenuate post-development peak flows to target release rates established for the 2-year to 100-year storm events in the Conceptual Servicing Study for Blackstone Phases 2, 3 and 4 North, dated November 2011, prepared by IBI Group, consisting of the following:

Proposed Works:

stormwater management facility (Pond 7 - catchment area 35.86 hectares): - one (1) wet pond with a sediment forebay, essentially replacing the temporary sedimentation pond previously approved for the catchment area, identified below, having a permanent pool volume of 20,583 m³, an extended detention volume of 2,091 m³, and a total storage volume of approximately 36,246 m³, including the permanent pool volume, at a total depth of approximately 3 m, discharging to the existing Monahan Drain just upstream of Terry Fox Drive, and draining via the Jock River and the Rideau River to the Ottawa River;

Previous Works:

temporary sedimentation pond (catchment area 34.52 hectares): - one (1) wet pond at the proposed location of future Pond 7 in Blackstone in the Fernbank Community, having a permanent pool volume of 22,063 m³, an

extended detention volume of 6,065 m³, discharging through a temporary outlet to the existing Monahan Drain, just upstream of Terry Fox Drive, including temporary drainage swales on the construction site to direct all stormwater run-off from the site to the temporary sedimentation pond;

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 supporting documents listed in Schedule "A" forming part of this Approval.

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;

"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;

"District Manager" means the District Manager of the Ottawa office of the Ministry;

"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;

"Owner" means 2129786 Ontario Limited and includes their successors and assignees;

"Previous Works" means those portions of the sewage Works previously approved under an Approval;

"Water Supervisor" means the 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 City of Ottawa as the operating authority of the site as part of 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.

(8) This Approval is for the treatment and disposal of stormwater run-off from a drainage area of 35.86 hectares of Blackstone Phases 2 and 3 draining to Pond 7 in the Fernbank Community, assuming an average imperviousness of 51%. Any changes within the total drainage area that might increase the required storage volumes or increase the flows to or from the wet pond or any physical/structural changes to the wet pond including the inlets or outlets will require an amendment to this Approval.

2. EXPIRY OF APPROVAL

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.

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;

(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 in ownership to the municipality, i.e. assumption of the Works, the Owner shall notify the succeeding owner in writing of the existence of this Approval, and a copy of such notice shall be forwarded to the District Manager and the Director.

(3) Notwithstanding any other requirements in this Approval, upon transfer of the ownership of the Works to a municipality, if applicable, any reference to the "District Manager" within the Terms and Conditions of this Approval shall be replaced with "Water Supervisor".

4. OPERATION AND MAINTENANCE

(1) The Owner shall ensure that the design minimum liquid retention volume is maintained at all times.

(2) The Owner shall inspect the Works at least **once a year** and, if necessary, clean and maintain the Works to prevent the excessive build-up of sediments and/or vegetation.

(3) 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 office for inspection by the Ministry. The logbook shall include the following:

(a) the name of the Works

(b) the date and results of each inspection, maintenance and cleaning, including an estimate of the quantity of any materials removed.

5. TEMPORARY EROSION AND SEDIMENT CONTROL

(1) The Owner shall install and maintain the 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. **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"

1. Application for Environmental Compliance Approval, dated July 29, 2013 and received on August 8, 2013, submitted by the City of Ottawa;
2. Engineering Drawings 9 and 10, dated July 15, 2013, prepared by David Schaeffer Engineering Ltd.;
3. Drawing Figure 1, dated July 31, 2013, prepared by David Schaeffer Engineering Ltd.;
4. Copy of a letter from Jennifer Ailey of David Schaeffer Engineering Ltd. to the City of Ottawa, dated July 30, 2013;
5. Drainage Area Plan, Sediment Basin Stage Storage Table and other supporting calculations, submitted by David Schaeffer Engineering Ltd.;
6. E-mail from Jennifer Ailey of David Schaeffer Engineering Ltd. to the Ministry, dated August 23, 2013;
7. Application for Environmental Compliance Approval, dated October 31, 2013 and received on November 6, 2013, submitted by the City of Ottawa;
8. Design Brief for Pond - 7 Blackstone in the Fernbank Community, Monarch Corporation Cardel Homes, dated September 30, 2013, prepared by David Schaeffer Engineering Ltd and J.F. Sabourin and Associates;
9. Set of Engineering Drawings (11 drawings) for Pond 7, Blackstone in the Fernbank Community, dated September 30, 2013, prepared by David Schaeffer Engineering Ltd.; and
10. E-mail from Jennifer Ailey of David Schaeffer Engineering Ltd. to the Ministry, dated January 22, 2014.

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 continues to operate the Works in compliance with it.
4. Condition 4 is included to require that the Works be properly operated and maintained such that the environment is protected.

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

Upon issuance of the environmental compliance approval, I hereby revoke Approval No(s). 2105-9BQJD3 issued on September 23, 2013

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.

Pursuant to subsection 139(3) of the Environmental Protection Act, a hearing may not be required with respect to any terms and conditions in this environmental compliance approval, if the terms and conditions are substantially the same as those contained in an approval that is amended or revoked by this environmental compliance approval.

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
2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5

*** 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) 314-4506 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 23rd day of January, 2014



Edgardo Tovilla
Director
appointed for the purposes of Part II.1 of the
Environmental Protection Act

DC/

c: District Manager, MOE Ottawa office
Water Supervisor, MOE Ottawa office
Jennifer Ailey, P.Eng., David Schaeffer Engineering Ltd (DSEL)

Generator Details

Registration / Notification Number

ON2859140

Legal Company Name

Primary Name: Monarch Corporation

Division Name: NA

Company Operating Name

Primary Name: Monarch Corporation

Division Name: NA

Mailing Address

Division Building: NA

Post Box Number: NA

Address Line 1: 3584 Jockvale road

Address Line 2: NA

Town/City: Ottawa

Postal Code / Zip Code: K2C 3H2

County: (if inside Ontario) OTTAWA CARLTON (RM)

Province/State (If inside Canada/US) ONTARIO

County: (if outside Ontario) NA

Province / State (If outside Canada / US) NA

Country: Canada

Country: NA

Site Location

This should be the street address of the site that is being registered. You are required to register each site that generates hazardous waste separately.

Division Building: NA

Post Box Number: NA

Address Line 1: 5505 Fernbank Rd

Postal Code / Zip Code: K2S 1B6

Address Line 2: NA

Province / State (If inside Canada / US) ONTARIO

Town/City: Ottawa

Province / State (If outside Canada / US) NA

County: (if inside Ontario) OTTAWA CARLTON (RM)

Province / State (If outside Canada / US) NA

County: (if outside Ontario) NA

Country: Canada



Ontario

HOME

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Company Name: Monarch Corporation
Company Number: ON2859140 (Generator)

Active Waste Classes

Active Waste Class Listing
[Add New Waste Class](#) [Inactive waste classes](#)

Active Off-site Waste Classes

Waste Class	View Details	Hazardous Waste Number	Reg. 347 Schedules	Disposal Method	Part 2B required complete	Physical State	Off-Status	UnRegister
252 - L	View Details	N/A				Liquid	Off-Site	Active

Back

ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 2931-9U3TBC

Issue Date: February 26, 2015

2129786 Ontario Limited
135 Michael Cowpland Drive, Suite 300
Kanata, Ontario
K2M 2E9

Site Location: Blackstone Community - Phases 2 and 3
5431 Fernbank Road
Part of Lots 29 and 30, Concession 10
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 sewers to be constructed in the City of Ottawa, on Rouncey Road (from Station 0+030.7 to Station 0+080);

all in accordance with the application from 2129786 Ontario Limited, dated November 18, 2014, including final plans and specifications prepared by Stantec Consulting 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 Director appointed for the purposes of

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

AND

Part II.1 of the Environmental Protection Act
Ministry of the Environment and
Climate Change
2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5

* 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) 314-3717 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 26th day of February, 2015



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

DN/

c: District Manager, MOECC Ottawa District Office
M. Rick O'Connor, Clerk, City of Ottawa (File No. D07-16-11-0023)
Damien Whittaker, P. Eng., Senior Engineer, Development Review Process, City of Ottawa
Patrick Lewis, Program Manager, Infrastructure Services
Peter Moroz, P. Eng., Stantec Consulting Ltd.

AMENDED ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 3241-9FJRQ7

Issue Date: January 23, 2014

2129786 Ontario Limited
3584 Jockvale Road
Nepean, Ontario
K2C 3H2

Site Location: Pond 7 in Blackstone in the Fernbank Community
Lot 29 and 30, Concession 10, Goulbourn
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:

establishment of stormwater management Works for the collection, treatment and disposal of stormwater run-off, and dewatering sewage, if necessary, from part of the Blackstone residential subdivision in the Fernbank Community, located west of Terry Fox Drive, immediately north of the Monahan Drain in the City of Ottawa, within the Jock River watershed, (Reference Approval 2015-9F4KE8, issued January 14, 2014 for the storm and sanitary sewers for Blackstone - Phases 2 and 3), to provide Enhanced Level water quality control and erosion protection, and to attenuate post-development peak flows to target release rates established for the 2-year to 100-year storm events in the Conceptual Servicing Study for Blackstone Phases 2, 3 and 4 North, dated November 2011, prepared by IBI Group, consisting of the following:

Proposed Works:

stormwater management facility (Pond 7 - catchment area 35.86 hectares): - one (1) wet pond with a sediment forebay, essentially replacing the temporary sedimentation pond previously approved for the catchment area, identified below, having a permanent pool volume of 20,583 m³, an extended detention volume of 2,091 m³, and a total storage volume of approximately 36,246 m³, including the permanent pool volume, at a total depth of approximately 3 m, discharging to the existing Monahan Drain just upstream of Terry Fox Drive, and draining via the Jock River and the Rideau River to the Ottawa River;

Previous Works:

temporary sedimentation pond (catchment area 34.52 hectares): - one (1) wet pond at the proposed location of future Pond 7 in Blackstone in the Fernbank Community, having a permanent pool volume of 22,063 m³, an extended detention volume of 6,065 m³, discharging through a temporary outlet to the existing Monahan Drain, just upstream of Terry Fox Drive, including temporary drainage swales on the construction site to direct all stormwater run-off from the site to the temporary sedimentation pond;

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 supporting documents listed in Schedule "A" forming part of this Approval.

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;

"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;

"District Manager" means the District Manager of the Ottawa office of the Ministry;

"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;

"Owner" means 2129786 Ontario Limited and includes their successors and assignees;

"Previous Works" means those portions of the sewage Works previously approved under an Approval;

"Water Supervisor" means the 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 City of Ottawa as the operating authority of the site as part of 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.

(8) This Approval is for the treatment and disposal of stormwater run-off from a drainage area of 35.86 hectares of Blackstone Phases 2 and 3 draining to Pond 7 in the Fernbank Community, assuming an average imperviousness of 51%. Any changes within the total drainage area that might increase the required storage volumes or increase the flows to or from the wet pond or any physical/structural changes to the wet pond including the inlets or outlets will require an amendment to this Approval.

2. EXPIRY OF APPROVAL

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.

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;

(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 in ownership to the municipality, i.e. assumption of the Works, the Owner shall notify the succeeding owner in writing of the existence of this Approval, and a copy of such notice shall be forwarded to the District Manager and the Director.

(3) Notwithstanding any other requirements in this Approval, upon transfer of the ownership of the Works to a municipality, if applicable, any reference to the "District Manager" within the Terms and Conditions of this Approval shall be replaced with "Water Supervisor".

4. OPERATION AND MAINTENANCE

(1) The Owner shall ensure that the design minimum liquid retention volume is maintained at all times.

(2) The Owner shall inspect the Works at least **once a year** and, if necessary, clean and maintain the Works to prevent the excessive build-up of sediments and/or vegetation.

(3) 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 office for inspection by the Ministry. The logbook shall include the following:

(a) the name of the Works

(b) the date and results of each inspection, maintenance and cleaning, including an estimate of the quantity of any materials removed.

5. TEMPORARY EROSION AND SEDIMENT CONTROL

(1) The Owner shall install and maintain the 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. 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"

1. Application for Environmental Compliance Approval, dated July 29, 2013 and received on August 8, 2013, submitted by the City of Ottawa;
2. Engineering Drawings 9 and 10, dated July 15, 2013, prepared by David Schaeffer Engineering Ltd.;
3. Drawing Figure 1, dated July 31, 2013, prepared by David Schaeffer Engineering Ltd.;
4. Copy of a letter from Jennifer Ailey of David Schaeffer Engineering Ltd. to the City of Ottawa, dated July 30, 2013;
5. Drainage Area Plan, Sediment Basin Stage Storage Table and other supporting calculations, submitted by David Schaeffer Engineering Ltd.;
6. E-mail from Jennifer Ailey of David Schaeffer Engineering Ltd. to the Ministry, dated August 23, 2013;
7. Application for Environmental Compliance Approval, dated October 31, 2013 and received on November 6, 2013, submitted by the City of Ottawa;
8. Design Brief for Pond - 7 Blackstone in the Fernbank Community, Monarch Corporation Cardel Homes, dated September 30, 2013, prepared by David Schaeffer Engineering Ltd and J.F. Sabourin and Associates;
9. Set of Engineering Drawings (11 drawings) for Pond 7, Blackstone in the Fernbank Community, dated September 30, 2013, prepared by David Schaeffer Engineering Ltd.; and
10. E-mail from Jennifer Ailey of David Schaeffer Engineering Ltd. to the Ministry, dated January 22, 2014.

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 continues to operate the Works in compliance with it.
4. Condition 4 is included to require that the Works be properly operated and maintained such that the environment is protected.
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 require that all records are retained for a sufficient time period to adequately evaluate the long-term operation and maintenance of the Works.

Upon issuance of the environmental compliance approval, I hereby revoke Approval No(s). 2105-9BQJD3 issued on September 23, 2013

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.

Pursuant to subsection 139(3) of the Environmental Protection Act, a hearing may not be required with respect to any terms and conditions in this environmental compliance approval, if the terms and conditions are substantially the same as those contained in an approval that is amended or revoked by this environmental compliance approval.

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
2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5

*** 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) 314-4506 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 23rd day of January, 2014



Edgardo Tovilla

Director

appointed for the purposes of Part II.1 of the
Environmental Protection Act

DC/

c: District Manager, MOE Ottawa office
Water Supervisor, MOE Ottawa office
Jennifer Ailey, P.Eng., David Schaeffer Engineering Ltd (DSEL)

ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 2015-9F4KE8

Issue Date: January 14, 2014

2129786 Ontario Inc.
3584 Jockvale Road
Ottawa, Ontario
K2C 3H2

Site Location: Blackstone Community - Phases 2 and 3
5431 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 along Gloaming Crescent, Block 275, Rouncey Road, Sceptre Road, Groningen Road, Danzig Road, Block 297, Nonius Street, Andalusian Crescent, Dressage Street, Losino Crescent and Tapadero Avenue, in the City of Ottawa, as part of Blackstone Community Subdivision Development project, comprising;

- **storm sewers** to be constructed along Gloaming Crescent (from Station 0+000 to Station 0+326.7) and along Block 275 (from Station 0+009.6 to Station 0+093), discharging to the storm sewer located along Groningen Road;
- **storm sewers** to be constructed along Rouncey Road, from approximately 214 metres south of Danzig Road to Danzig Road, discharging to the storm sewer located along Danzig Road;
- **storm sewers** to be constructed along Rouncey Road, from approximately 90 metres north of Tapadero Avenue to approximately 40 metres north of Danzig Road, discharging to the existing storm sewer located along Westphalian Avenue;
- **storm sewers** to be constructed along Tapadero Avenue, from approximately 116 metres west of Dressage Street to Rouncey Road, discharging to the storm sewer located along Nonius Road;
- **storm sewers** to be constructed along Sceptre Road, from approximately 40 metres east of Tapadero Avenue to Dressage Street, discharging to the storm sewer located along Dressage Street;
- **storm sewers** to be constructed along Groningen Road, from approximately 40 metres east of Tapadero Avenue to Nonius Road, discharging to the storm sewer located along Nonius Road;
- **storm sewers** to be constructed along Danzig Road, from approximately 15 metres east of Nonius Road to stormwater management pond 7 (Station 0+066.7), discharging to the

stormwater management pond 7 located along Block 297;

- **storm sewers** to be constructed along Nonius Street, from Groningen Road to Tapadero Avenue, discharging to the existing storm sewer located along Oxer Place;
- **storm sewers** to be constructed along Andalusian Crescent (from Station 0+006.5 to Station 0+740.2), discharging to the storm sewer located along Danzing Road;
- **storm sewers** to be constructed along Dressage Street, from approximately 40 metres south of Tapadero Avenue to approximately 40 metres north of Groningen Road, discharging to the existing storm sewer located along Oxer Place;
- **storm sewers** to be constructed along Losino Crescent (from Station 0+006.5 to Station 0+489.9), discharging to the existing storm sewer located along Westphalian Avenue;
- **sanitary sewers** to be constructed along Gloaming Crescent (from Station 0+000.0 to Station 0+326.7) and along Block 275 (from Station 0+009.6 to Station 0+093), discharging to the sanitary sewer located along Groningen Road;
- **sanitary sewers** to be constructed along Rouncey Road, from approximately 40 metres north of Tapadero Avenue to approximately 214 metres south of Danzig Road, discharging to the existing sanitary sewer located along Westphalian Avenue;
- **sanitary sewers** to be constructed along Tapadero Avenue, from approximately 116 metres west of Dressage Street to Rouncey Road, discharging to the sanitary sewer located along Nonius Road;
- **sanitary sewers** to be constructed along Sceptre Road, from approximately 40 metres east of Tapadero Avenue to Dressage Street, discharging to the sanitary sewer located along Dressage Street;
- **sanitary sewers** to be constructed along Groningen Road, from approximately 40 metres east of Tapadero Avenue to Nonius Road, discharging to the sanitary sewer located along Nonius Road;
- **sanitary sewers** to be constructed along Danzing Road, from approximately 15 metres east of Nonius Road to Rouncey Road, discharging to the sanitary sewer located along Rouncey Road;
- **sanitary sewers** to be constructed along Danzing Road, from approximately 20 metres east of Rouncey Road to Andalusian Crescent (Station 0+545.2), discharging to the sanitary sewer located along Andalusian Crescent;
- **sanitary sewers** to be constructed along Nonius Street, from Groningen Road to Tapadero Avenue, discharging to the sanitary sewer located along Oxer Place;
- **sanitary sewers** to be constructed along Andalusian Crescent (from Station 0+006.5 to Station 0+740.2), discharging to the existing sanitary sewer located along Westphalian Avenue;
- **sanitary sewers** to be constructed along Dressage Street, from approximately 40 metres south of Tapadero Avenue to approximately 40 metres north of Groningen Road, discharging to the existing sanitary sewer located along Oxer Place;

- **sanitary sewers** to be constructed along Losino Crescent (from Station 0+006.5 to Station 0+489.9), discharging to the existing sanitary sewer located along Westphalian Avenue;

all in accordance with the application from 2129786 Ontario Inc., dated October 17, 2013 and received on November 13, 2013, including final plans and specifications prepared by Stantec Consulting Ltd.

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

1. "Approval " means this Environmental Compliance Approval and any Schedules to it, including the application and supporting documentation;
2. "Director " means any Ministry employee appointed by the Minister pursuant to section 5 of the Part II.1 of the Environmental Protection Act;
3. "Ministry " means the Ontario Ministry of the Environment;
4. "Owner " means 2129786 Ontario Inc., and includes its successors and assignees;
5. "District Manager " means the District Manager of the appropriate local district office of the Ministry, where the Works are geographically located;
6. "Water Supervisor " means the Water Supervisor of the appropriate local office of the Safe Drinking Water Branch of the Ministry, where the Works are geographically located; and
7. "Works " means the sewage works described in the Owner's application, this Approval and in the supporting documentation referred to herein, to the extent approved by 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

- 1.1 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.
- 1.2 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, the application for Approval of the Works and the submitted supporting documents and plans and specifications as listed in this Approval.
- 1.3 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.
- 1.4 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.

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

2. EXPIRY OF APPROVAL

The *Approval* issued by 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*.

3. CHANGE OF OWNER

- 3.1 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* ; and
 - (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* .
- 3.2 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* .
- 3.3 Notwithstanding any other requirements in this *Approval*, upon transfer of the ownership or assumption of the *Works* to a municipality if applicable, any reference to the *District Manager* shall be replaced with the *Water Supervisor* .

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. The Condition also advises the *Owners* their responsibility to notify any person they authorized to carry out work pursuant to this *Approval* of the existence of this *Approval*.
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 subsequent owners of the *Works* are made aware of the *Approval* and continue to operate the *Works* in compliance with it.

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
2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5

* 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) 314-3717 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 14th day of January, 2014



Edgardo Tovilla

Director
appointed for the purposes of Part II.1 of the
Environmental Protection Act

IJ/

c: District Manager, MOE Ottawa District
Water Supervisor, Ottawa, MOE Safe Drinking Water Branch
Peter Moroz, Stantec Consulting Ltd.

Jacek Taracha, Development Review Process, City of Ottawa, File Number: D07-16-11-0023



File Number: D06-03-17-0045

April 21, 2017

Paterson Group
154 Colonnade Road South
Ottawa, ON K2E 7J5
Attn: Greg van Loenen

Sent via email to gvanloenen@patersongroup.ca

Dear Mr. van Loenen,

**Re: Information Request
5431 and 5505 Fernbank Road, Ottawa, Ontario ("Subject Properties")**

Internal Department Circulation

The Planning, Infrastructure and Economic Development Department has the following information in response to your request for information regarding the Subject Properties:

- No information was returned on the Subject Properties from Departmental circulation

Search of Historical Land Use Inventory

This acknowledges receipt of the signed Disclaimer regarding your request for information from the City's Historical Land Use Inventory (HLUI 2005) database for the Subject Properties.

A search of the HLUI database revealed the following information:

- There are no activities associated with the Subject Properties.

The HLUI database was also searched for activity associated with properties located within 50m of the Subject Properties. The search revealed the following:

- There is one (1) activity associated with properties located within 50m of the Subject Properties: Activity Number 4113.

*Shaping our future together
Ensemble, formons notre avenir*

City of Ottawa
Planning, Infrastructure and Economic
Development Department

110 Laurier Avenue West, 4th Floor
Ottawa, ON K1P 1J1
Tel: (613) 580-2424 ext. 24856
Fax: (613) 560-6006
www.ottawa.ca

Ville d'Ottawa
Services de la planification, de l'infrastructure et
du développement économique

110, avenue Laurier Ouest, 4e étage
Ottawa (Ontario) K1P 1J1
Tél.: (613) 580-2424 ext. 24856
Télééc: (613) 560-6006
www.ottawa.ca

A site map has been included to show the location of the Subject Properties as well as the location of all the activities noted above. Additional information may be obtained by contacting:

Ontario's Environmental Registry

The Environmental Registry found at <http://www.ebr.gov.on.ca/ERS-WEB-External/> contains "public notices" about environmental matters being proposed by all government ministries covered by the Environmental Bill of Rights. The public notices may contain information about proposed new laws, regulations, policies and programs or about proposals to change or eliminate existing ones. By using key words i.e. name of proponent/owner and the address one can ascertain if there is any information on the proponent and address under the following categories: Ministry, keywords, notice types, Notice Status, Acts, Instruments and published date (all years).

The Ontario Land Registry Office

Registration of real property is recorded in the Ontario Land Registry Office through the Land Titles Act or the Registry Act. Documents relating to title and other agreements that may affect your property are available to the public for a fee. It is recommended that a property search at the Land Registry Office be included in any investigation as to the historic use of your property. The City of Ottawa cannot comment on any documents to which it is not a party.

Court House
161 Elgin Street 4th Floor
Ottawa ON K2P 2K1
Tel: (613) 239-1230
Fax: (613) 239-1422

Please note, as per the HLUI Disclaimer, that the information contained in the HLUI database has been compiled from publicly available records and other sources of information. The HLUI may contain erroneous information given that the records used as sources of information may be flawed. For instance, changes in municipal addresses over time may introduce error. Accordingly, all information from the HLUI database 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.

Furthermore, the HLUI database and the results of this search in no way confirm the presence or absence of contamination or pollution of any kind. This information is provided on the assumption that it will not be relied upon by any person for any purpose whatsoever. The City of Ottawa denies all liability to any persons attempting to rely on any information provided from the HLUI database.

Please note that in responding to your request, the City of Ottawa does not guarantee or comment on the environmental condition of the Subject Properties.

You may wish to contact the Ontario Ministry of Environment and Climate Change for additional information.

If you have any further questions or comments, please contact Ben Crooks at 613-580-2424 ext. 14743 or at HLUI@ottawa.ca

Sincerely,

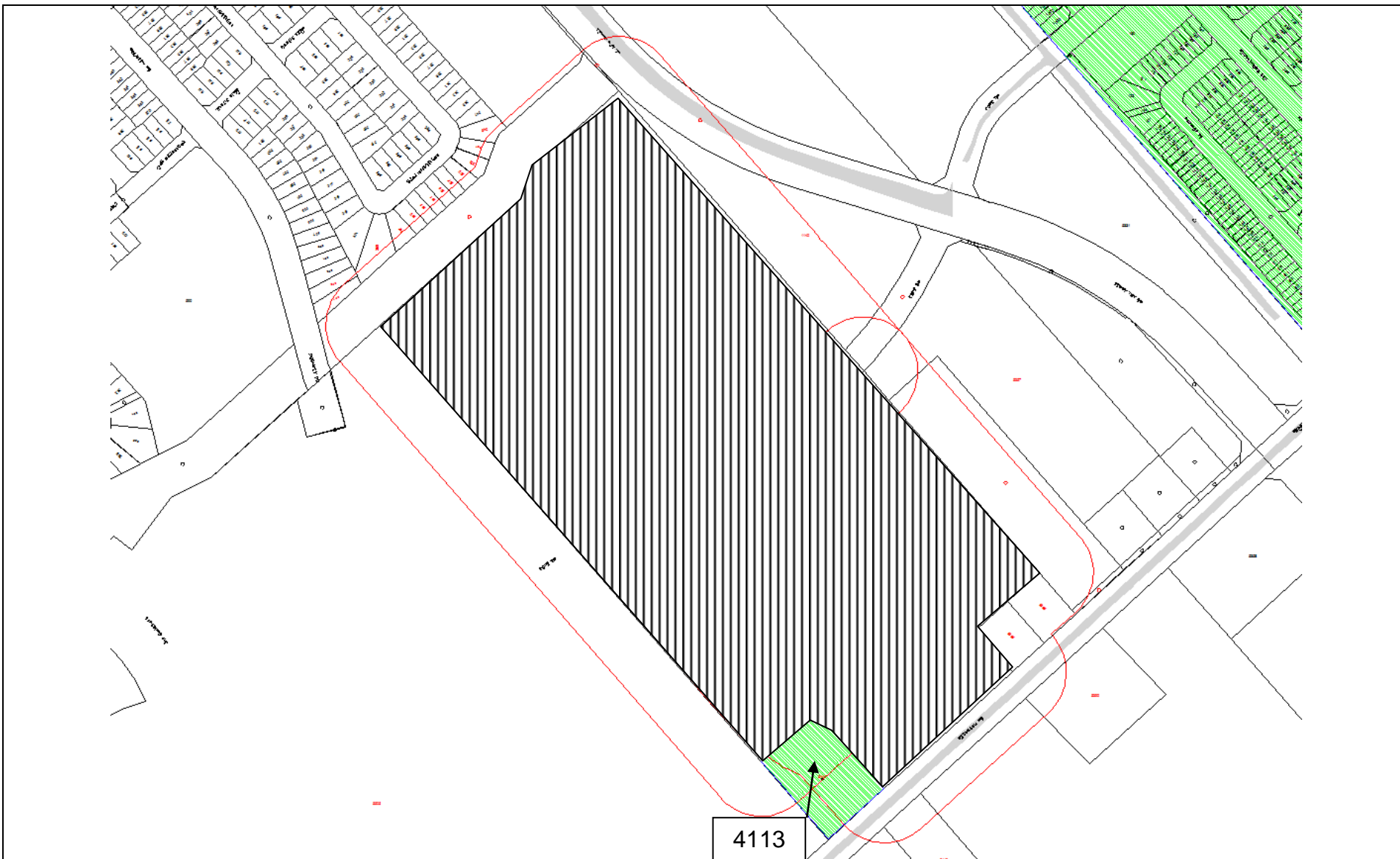
A handwritten signature in black ink, appearing to read 'Ben Crooks', with a long horizontal flourish extending to the right.

Ben Crooks
(For) Michael Boughton, MCIP, RPP
Senior Planner
Development Review East
Planning Services
Planning, Infrastructure and Economic Development Department

MB / BC

Attach: 2

cc: File no. D06-03-17-0045




Scale 1: n/a

5431 and 5505 Fernbank Road
Ottawa, ON
File # D06-03-17-0045
Ben Crooks



Overview

ID# = Activity Identification Number

 = Subject Site



CITY OF OTTAWA

HLUI ID: __6790NL

AREA (Square Metres): 6467.149

Report: RPTC_OT_DEV0122

Run On: 06 Apr 2017 at: 13:32:39

Study Year
2005

PIN
044500432

Multi-NAIC
N

Multiple Activities
N

Activity ID: 4113 Multiple PINS: N

PIN Certainty: 1 Previous Activity ID(s) :

Related PINS: 044500432

Name: D & S APPLIANCE &

Address: 5441 FERNBANK ROAD, STITTSVILLE

Facility Type: Appliance, Television, Radio and Stereo Stores

Comments 1:

Comments 2:

Generator Number:

Storage Tanks:

HL References 1:

HL References 2:

HL References 3: 2001 Employment Survey

NAICS	SIC
811412	0

Company Name

D & S APPLIANCE &

Year of Operation

c. 2001

RE: Records search request for 5505 Fernbank Road, Ottawa

Ruchi Chohan <rchohan@tssa.org> on behalf of
Public Information Services <publicinformationsservices@tssa.org>

Wed 3/22/2017 9:23 AM

To: Greg van Loenen <GvanLoenen@Patersongroup.ca>;

Hello Greg,

Thank you for your inquiry.

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

5357 Fernbank Rd, Stittsville has record of an active cylinder exchange facility.

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

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

Thank you and have a good day!

Ruchi

From: Greg van Loenen [mailto:GvanLoenen@Patersongroup.ca]
Sent: Wednesday, March 15, 2017 12:55 PM
To: Public Information Services <publicinformationsservices@tssa.org>
Subject: Records search request for 5505 Fernbank Road, Ottawa

Good afternoon,

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

5357 Fernbank Road
5390 Fernbank Road
5431 Fernbank Road
5441 Fernbank Road
5444 Fernbank Road
5460 Fernbank Road
5505 Fernbank Road
5506 Fernbank Road
5524 Fernbank Road

Regards,

Greg van Loenen, B.Eng.

patersongroup
solution oriented engineering

60 years serving our clients

154 Colonnade Road South

Ottawa, Ontario, K2E 7J5

Tel: (613) 226-7381 Ext. 248

Fax: (613) 226-6344

Email: GvanLoenen@patersongroup.ca

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

Measurements recorded in: ☒ Metric ☐ Imperial

Page of

Well Owner's Information

First Name		Last Name / Organization		E-mail Address			<input type="checkbox"/> Well Constructed by Well Owner	
Braebury Homes		c/o Novatech Engineering						
Mailing Address (Street Number/Name)			Municipality	Province	Postal Code	Telephone No. (inc. area code)		
240 Michael Coupland - Suit 200			Kanata	Ontario	K2M 1P6	613 254 9643		

Well Location

Address of Well Location (Street Number/Name)		Township	Lot	Concession
5611 Fernbank Rd.		Goulbourn	28	10
County/District/Municipality		City/Town/Village	Province	Postal Code
Ottawa Carleton		Stittsville	Ontario	
UTM Coordinates	Zone	Easting	Northing	
NAD 83	18	430681	5012974	
Municipal Plan and Sublot Number			Other	

Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form)

[illegible]

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)
39.01	4.87	Grouted Bentonite-3/8"holeplug	
4.87		Grouted Bentonite - Quick Grout	
4.57	0	Clear pea stone gravel	

Method of Construction

<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Diamond	<input type="checkbox"/> Public	<input type="checkbox"/> Commercial	<input type="checkbox"/> Not used
<input type="checkbox"/> Rotary (Conventional)	<input type="checkbox"/> Jetting	<input type="checkbox"/> Domestic	<input type="checkbox"/> Municipal	<input type="checkbox"/> Dewatering
<input type="checkbox"/> Rotary (Reverse)	<input type="checkbox"/> Driving	<input type="checkbox"/> Livestock	<input type="checkbox"/> Test Hole	<input type="checkbox"/> Monitoring
<input type="checkbox"/> Boring	<input type="checkbox"/> Digging	<input type="checkbox"/> Irrigation	<input type="checkbox"/> Cooling & Air Conditioning	
<input type="checkbox"/> Air percussion		<input type="checkbox"/> Industrial		
<input type="checkbox"/> Other, specify _____		<input type="checkbox"/> Other, specify _____		

Well Use

<input type="checkbox"/> Public	<input type="checkbox"/> Commercial	<input type="checkbox"/> Not used
<input type="checkbox"/> Domestic	<input type="checkbox"/> Municipal	<input type="checkbox"/> Dewatering
<input type="checkbox"/> Livestock	<input type="checkbox"/> Test Hole	<input type="checkbox"/> Monitoring
<input type="checkbox"/> Irrigation	<input type="checkbox"/> Cooling & Air Conditioning	
<input type="checkbox"/> Industrial		
<input type="checkbox"/> Other, specify _____		

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)	
			From	To

Status of Well

☐ Water Supply
☐ Replacement Well
☐ Test Hole
☐ Recharge Well
☐ Dewatering Well
☐ Observation and/or Monitoring Hole
☐ Alteration (Construction)
☒ Abandoned, Insufficient Supply
☒ Abandoned, Poor Water Quality
☒ Abandoned, other, specify
☐ Other, specify

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
			From	To

Water Details

Water found at Depth (m/ft) <input type="checkbox"/> Gas	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Other, specify _____
Water found at Depth (m/ft) <input type="checkbox"/> Gas	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Other, specify _____
Water found at Depth (m/ft) <input type="checkbox"/> Gas	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Other, specify _____

Hole Diameter

Depth (m/ft)		Diameter (cm/in)
From	To	

Well Contractor and Well Technician Information

Business Name of Well Contractor				Well Contractor's Licence No.			
Capital Water Supply Ltd.				1 5 5 8			
Business Address (Street Number/Name)				Municipality			
Box 490				Stittsville			
Province		Postal Code		Business E-mail Address			
Ontario		K2S 1A6		office @ capitalwater.ca			
Bus. Telephone No. (inc. area code)		Name of Well Technician (Last Name, First Name)					
613 836 1766		Miller, Stephen					
Well Technician's Licence No.		Signature of Technician and/or Contractor				Date Submitted	
0 0 9 7						20080818	

Results of Well Yield Testing

After test of well yield, water was: <input type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify _____	Draw Down		Recovery	
	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason: _____	Static Level			
	1		1	
Pump intake set at (m/ft)	2		2	
Pumping rate (l/min / GPM)	3		3	
	4		4	
Duration of pumping _____ hrs + _____ min	5		5	
Final water level end of pumping (m/ft)	10		10	
If flowing give rate (l/min / GPM)	15		15	
	20		20	
Recommended pump depth (m/ft)	25		25	
Recommended pump rate (l/min / GPM)	30		30	
	40		40	
Well production (l/min / GPM)	50		50	
Disinfected? <input type="checkbox"/> Yes <input type="checkbox"/> No	60		60	

Map of Well Location

Please provide a map below following instructions on the back.

Fernbank Road

Comments:

Well owner's information package delivered

☐ Yes

☒ No

Date Package Delivered			
Y	Y	Y	Y
Date Work Completed			
2	0	08	08

Ministry Use Only

Audit No. **Z 84380**
OCT 14 2008
Received


316/5d

UTM 18 2 430940 E

5 0 1 2 8 4 0 N

Elev. 280 3 3 5

Basin 2 5



15 No 2812

GROUND WATER BRANCH

112 SEP 3 1959

ONTARIO WATER RESOURCES COMMISSION

The Ontario Water Resources Commission Act, 1957

WATER WELL RECORD

County or District Carleton

Township, Village, Town or City Goulbourn

completed 26 APR 59

Stittsville Ont.

Casing and Screen Record	Pumping Test
Inside diameter of casing 4"	Static level 15'
Total length of casing 25'	Test-pumping rate 5 G.P.M.
Type of screen none	Pumping level 20'
Length of screen	Duration of test pumping 2 hour
Depth to top of screen	Water clear or cloudy at end of test clear
Diameter of finished hole 4"	Recommended pumping rate 5 G.P.M.
	with pumping level of 20'

Well Log		Water Record			
Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	No. of feet water rises	Kind of water (fresh, salty, sulphur)
Coarse gravel	0	25			
gray limestone	25	60	50-60	45	fresh

For what purpose(s) is the water to be used?
House

Is well on upland, in valley, or on hillside?
valley

Drilling Firm F. P. Sparks

Address Stittsville Ont.

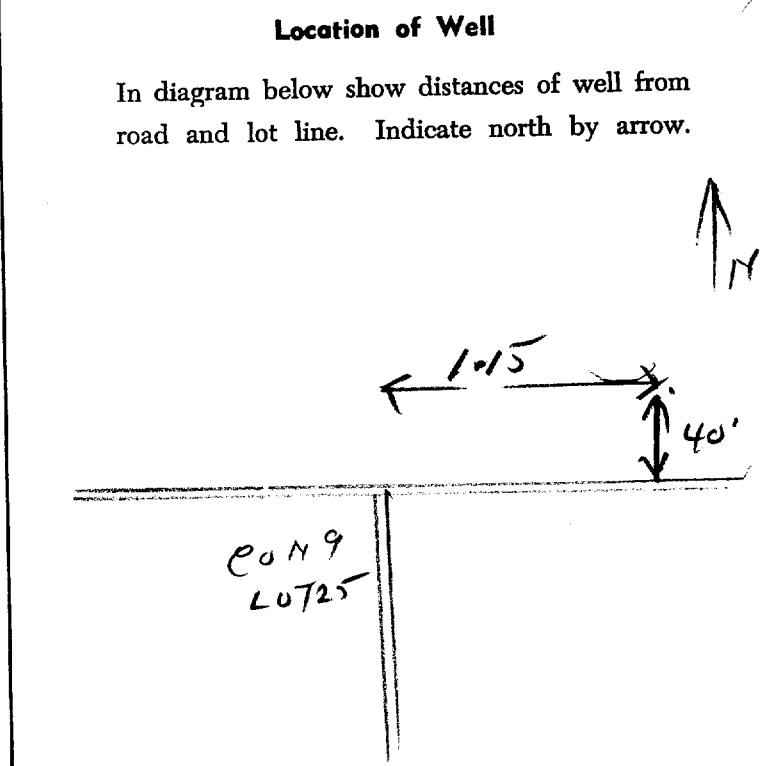
Licence Number

Name of Driller F. P. Sparks

Address Stittsville Ont.

Date AUG 24/59

F. P. Sparks
(Signature of Licensed Drilling Contractor)





Ministry of
the Environment

Tag#: A135272

or Print Below)

A135272

Well Record

Regulation 903 Ontario Water Resources Act

Page _____ of _____

Measurements recorded in: ☐ Metric ☒ Imperial

Well Owner's Information

First Name	Last Name / Organization Monarch Corporation	E-mail Address	<input type="checkbox"/> Well Constructed by Well Owner
Mailing Address (Street Number/Name) 3584 Jockvale Road	Municipality Nepean	Province ON	Postal Code K2C 3H2
Telephone No. (inc. area code)			

Well Location

Address of Well Location (Street Number/Name) 5555 Fernbank Road		Township Goulbourn	Lot P/L 29	Concession 10
County/District/Municipality Ottawa-Carleton		City/Town/Village Stittsville	Province Ontario	Postal Code
UTM Coordinates Zone 8 3	Easting 18 431065	Northings 5013186	Municipal Plan and Sublot Number RP5R13184	Other Parts 2,3,4

Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form)

General Colour	Most Common Material	Other Materials	General Description	Depth (m)
	Clay			From To
	Sand & Gravel			0' 15'
Grey	Limestone			15' 18'
Brown & Red	Limestone			18' 140'
Brown & Red	Limestone			140' 150'
Green	Limestone			150' 152'
Grey	Limestone			152' 163'
Grey	Limestone			163' 180'
Grey	Limestone			180' 200'

Annular Space			
Depth Set at (m)	Type of Sealant Used (Material and Type)	Volume Placed (m³)	
From To			
30' 20'	Neat cement	9.36	
20' 0'	Bentonite slurry	8.24	

Method of Construction		Well Use	
<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Diamond	<input type="checkbox"/> Public	<input type="checkbox"/> Commercial
<input type="checkbox"/> Rotary (Conventional)	<input type="checkbox"/> Jetting	<input checked="" type="checkbox"/> Domestic	<input type="checkbox"/> Municipal
<input type="checkbox"/> Rotary (Reverse)	<input type="checkbox"/> Driving	<input type="checkbox"/> Livestock	<input type="checkbox"/> Test Hole
<input type="checkbox"/> Boring	<input type="checkbox"/> Digging	<input type="checkbox"/> Irrigation	<input type="checkbox"/> Cooling & Air Conditioning
<input checked="" type="checkbox"/> Air percussion		<input type="checkbox"/> Industrial	
<input type="checkbox"/> Other, specify		<input type="checkbox"/> Other, specify	

Construction Record - Casing				Status of Well	
Inside Diameter (cm)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)	From	To
6 1/4"	Steel	.188"	+2'	30'	
6"	Open Hole		30'	200'	
				<input checked="" type="checkbox"/> Water Supply	
				<input type="checkbox"/> Replacement Well	
				<input type="checkbox"/> Test Hole	
				<input type="checkbox"/> Recharge Well	
				<input type="checkbox"/> Dewatering Well	
				<input type="checkbox"/> Observation and/or Monitoring Hole	
				<input type="checkbox"/> Alteration (Construction)	
				<input type="checkbox"/> Abandoned, Insufficient Supply	
				<input type="checkbox"/> Abandoned, Poor Water Quality	
				<input type="checkbox"/> Abandoned, other, specify	
				<input type="checkbox"/> Other, specify	

Construction Record - Screen			
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)
			From To

Water Details		Hole Diameter	
Water found at Depth	Kind of Water: <input type="checkbox"/> Fresh <input checked="" type="checkbox"/> Untested	Depth (m/ft)	Diameter (cm/in)
150' (m)	<input type="checkbox"/> Gas <input checked="" type="checkbox"/> Other, specify	From To	
Water found at Depth	Kind of Water: <input type="checkbox"/> Fresh <input checked="" type="checkbox"/> Untested	0' 30'	9 3/4"
180' (m)	<input type="checkbox"/> Gas <input checked="" type="checkbox"/> Other, specify	30' 200'	6"
Water found at Depth	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested		
(m/ft)	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify		

Well Contractor and Well Technician Information	
Business Name of Well Contractor Air Rock Drilling Co. Ltd.	Well Contractor's Licence No. 1119
Business Address (Street Number/Name) 6659 Franktown Road, RR#1	Municipality Richmond

Province ON	Postal Code K0A 2Z0	Business E-mail Address air-rock@sympatico.ca
Bus. Telephone No. (inc. area code) 6138382170		Name of Well Technician (Last Name, First Name) Purcell, Shannon
Well Technician's Licence No. T2122	Signature of Technician and/or Contractor <i>[Signature]</i>	Date Submitted 2013 03 29

Results of Well Yield Testing			
After test of well yield, water was: <input type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify Not tested	Draw Down		Recovery
	Time (min)	Water Level (m/ft)	Time (min) Water Level (m/ft)
If pumping discontinued, give reason: X	Static Level	8'	46.4"
	1	16.3	1 27.6
Pump intake set at (m)	2	19.9	2 24
100	3	25	3 21.8
Pumping rate (l/min / GPM)	4	26.7	4 19.7
20	5	29	5 16.9
Duration of pumping 1 hrs + 0 min	10	35.2	10 15.4
Final water level end of pumping (m/ft) 46' 4"	15	37.4	15 10.3
If flowing give rate (l/min / GPM)	20	39.5	20 8.8
Recommended pump depth (m)	25	40.8	25 8
100'	30	42.7	30 8
Recommended pump rate (l/min / GPM)	40	44.6	40 8
20	50	45.7	50 8
Well production (l/min / GPM)	60	46.4"	60 8'
20			
Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			

Map of Well Location	
Please provide a map below following instructions on the back.	
Comments: 3/4 HP - 15 GPM SET @ 100 FT	

Well owner's information package delivered <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered 2013 02 28	Ministry Use Only Audit No. 2155041
	Date Work Completed 2013 02 26	
Received APR 15 2013		



The Ontario Water Resources Act

WATER WELL RECORD

Print only in spaces provided.
Mark correct box with a checkmark, where applicable.

11

1534103

Municipality

Con.

15003

CONFIDENTIAL

09

$$W^{\frac{1}{2}} \text{ OF}$$

County or District	Township/Borough/City/Town/Village	Con block tract survey, etc.	Lot
	OTTAWA	9	29
Address of Well Location	STITTSVILLE ONT.	Date completed	6 8 03 day month year
5524 FERNBANK RD			

21

Zone Easting Northing RC Elevation ~~125~~ 125.136

iii iv

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)

General colour	Most common material	Other materials	General description	Depth - feet	
				From	To
BROWN	CLAY	SAND	LOAM	0	3½
BROWN	CLAY		DENSE	3½	7
BLUE	CLAY			7	24
BROWN	SAND	GRAVEL	FINE	24	44½
BROWN	LIMESTONE			44½	65
GREY	LIMESTONE			65	195

[illegible]

41		10		14		15		21	
WATER RECORD									
Water found at - feet			Kind of water						
123 ¹³			1	<input checked="" type="checkbox"/> Fresh	3	<input type="checkbox"/> Sulphur			14
			2	<input type="checkbox"/> Salty	4	<input type="checkbox"/> Minerals			
					6	<input type="checkbox"/> Gas			
181 ¹⁸			1	<input checked="" type="checkbox"/> Fresh	3	<input type="checkbox"/> Sulphur			19
			2	<input type="checkbox"/> Salty	4	<input type="checkbox"/> Minerals			
					6	<input type="checkbox"/> Gas			
20-23			1	<input type="checkbox"/> Fresh	3	<input type="checkbox"/> Sulphur			24
			2	<input type="checkbox"/> Salty	4	<input type="checkbox"/> Minerals			
					6	<input type="checkbox"/> Gas			
25-28			1	<input type="checkbox"/> Fresh	3	<input type="checkbox"/> Sulphur			29
			2	<input type="checkbox"/> Salty	4	<input type="checkbox"/> Minerals			
					6	<input type="checkbox"/> Gas			
30-33			1	<input type="checkbox"/> Fresh	3	<input type="checkbox"/> Sulphur			34
			2	<input type="checkbox"/> Salty	4	<input type="checkbox"/> Minerals			
					6	<input type="checkbox"/> Gas			

CASING & OPEN HOLE RECORD				
Inside diam inches	Material	Wall thickness inches	Depth - feet	
			From	To
10-11 6 1/4	<input checked="" type="checkbox"/> Steel <input type="checkbox"/> Galvanized <input type="checkbox"/> Concrete <input type="checkbox"/> Open hole <input type="checkbox"/> Plastic	12 0.188	0 + 1/2	13-16 48 1/2
17-18 6	<input type="checkbox"/> Steel <input type="checkbox"/> Galvanized <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Open hole <input type="checkbox"/> Plastic	19	48 1/2	20-23 195
24-25	<input type="checkbox"/> Steel <input type="checkbox"/> Galvanized <input type="checkbox"/> Concrete <input type="checkbox"/> Open hole <input type="checkbox"/> Plastic	26		27-30

SCREEN	Sizes of opening (Slot No.)	31-33	Diameter	34-38	Length	39-40
			inches		feet	
	Material and type			Depth at top of screen		30
				feet		

61				PLUGGING & SEALING RECORD	
<input checked="" type="checkbox"/> Annular space		<input type="checkbox"/> Abandonment			
Depth set at - feet		Material and type (Cement grout, bentonite, etc.)			
From	To				
6 ¹⁰⁻¹³ 38 ¹⁸⁻²¹	98 ¹⁷ 48 ²⁵	Cement grout BENTONITE			
26-29	30-33	80			

PUMPING TEST	Pumping test method ¹⁰ 1 <input checked="" type="checkbox"/> Pump 2 <input type="checkbox"/> Bailer		Pumping rate ¹¹⁻¹⁴ 8 GPM		Duration of pumping ¹⁵⁻¹⁶ 1 Hours 0 Mins	
	Static level	Water level end of pumping	Water levels during ²⁵ 1 <input checked="" type="checkbox"/> Pumping 2 <input type="checkbox"/> Recovery			
	14 ¹⁹⁻²¹ feet	19 ²⁰⁻²² feet	15 minutes ²⁶⁻²⁸ 22 ²⁵ feet	30 minutes ²⁹⁻³¹ 22 ²⁵ feet	45 minutes ³²⁻³⁴ 23 ²⁵ feet	60 minutes ³⁵⁻³⁷ 19 ²⁵ feet
	If flowing give rate ³⁸⁻⁴¹ GPM	Pump intake ⁴² 180 feet	Water at end of test <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Cloudy			
	Recommended pump type <input type="checkbox"/> Shallow <input checked="" type="checkbox"/> Deep	Recommended pump setting ⁴³⁻⁴⁵ 120 feet	Recommended pump rate ⁴⁶⁻⁴⁹ 7 GPM			
	50-53					

FINAL STATUS OF WELL			54
1 <input checked="" type="checkbox"/> Water supply	5 <input type="checkbox"/> Abandoned, insufficient supply	9 <input type="checkbox"/> Unfinished	
2 <input type="checkbox"/> Observation well	6 <input type="checkbox"/> Abandoned, poor quality	10 <input type="checkbox"/> Replacement well	
3 <input type="checkbox"/> Test hole	7 <input type="checkbox"/> Abandoned (Other)		
4 <input type="checkbox"/> Recharge well	8 <input type="checkbox"/> Dewatering		

WATER USE			55-56
1 <input checked="" type="checkbox"/> Domestic	5 <input type="checkbox"/> Commercial	9 <input type="checkbox"/> Not use	
2 <input type="checkbox"/> Stock	6 <input type="checkbox"/> Municipal	10 <input type="checkbox"/> Other	
3 <input type="checkbox"/> Irrigation	7 <input type="checkbox"/> Public supply		
4 <input type="checkbox"/> Industrial	8 <input type="checkbox"/> Cooling & air conditioning		

METHOD OF CONSTRUCTION			57
1 <input type="checkbox"/> Cable tool	5 <input checked="" type="checkbox"/> Air percussion	9 <input type="checkbox"/> Driving	
2 <input checked="" type="checkbox"/> Rotary (conventional)	6 <input type="checkbox"/> Boring	10 <input type="checkbox"/> Digging	
3 <input type="checkbox"/> Rotary (reverse)	7 <input type="checkbox"/> Diamond	11 <input type="checkbox"/> Other	
4 <input type="checkbox"/> Rotary (air)	8 <input type="checkbox"/> Jetting		

LOCATION OF WELL

In diagram below show distances of well from road and lot line.
Indicate north by arrow.

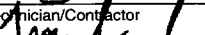
N

164'

45° 16' 09" 73'

75° 52' 66"

255332

Name of Well Contractor TROY SAUNDERS DRILLING	Well Contractor's Licence No. 4879
Address RR#1 BRASSIOWE CMT. KOA 1G0	
Name of Well Technician TROY SAUNDERS	Well Technician's Licence No. T-517
Signature of Technician/Contractor 	Submission date 09 03 day mo yr

MINISTRY USE ONLY	Data source	58 Contractor	59-62	Date received	63-68
		4879		SEP 17 2003	
	Date of inspection		Inspector		
	Remarks				



The Ontario Water Resources Act

WATER WELL RECORD

Print only in spaces provided.
Mark correct box with a checkmark, where applicable.

11

1534102

Municipality 15003 Con. CON 09
10 14 15 20
WED

County or District OTTAWA	Township/Borough/City/Town/Village OTTAWA	Con. block tract survey, etc. 9	Lot 29
Address of Well Location 5524 FERNBANK RD STITTVILLE ONT		Date completed 21 day	8 month 03 year

21 U Zone Easting Northing RC Elevation *KAS/156* Code ii iii iv

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)

[illegible][illegible]

41		14 15		21	
WATER RECORD					
Water found at - feet		Kind of water			
10-13	1 <input type="checkbox"/> Fresh	3 <input type="checkbox"/> Sulphur			14
	2 <input type="checkbox"/> Salty	4 <input type="checkbox"/> Minerals			
15-18	1 <input type="checkbox"/> Fresh	3 <input type="checkbox"/> Sulphur			19
	2 <input type="checkbox"/> Salty	4 <input type="checkbox"/> Minerals			
20-23	1 <input type="checkbox"/> Fresh	3 <input type="checkbox"/> Sulphur			24
	2 <input type="checkbox"/> Salty	4 <input type="checkbox"/> Minerals			
25-28	1 <input type="checkbox"/> Fresh	3 <input type="checkbox"/> Sulphur			29
	2 <input type="checkbox"/> Salty	4 <input type="checkbox"/> Minerals			
30-33	1 <input type="checkbox"/> Fresh	3 <input type="checkbox"/> Sulphur			34
	2 <input type="checkbox"/> Salty	4 <input type="checkbox"/> Minerals			

CASING & OPEN HOLE RECORD				
Inside diam inches	Material	Wall thickness inches	Depth - feet	
			From	To
10-11	<input checked="" type="checkbox"/> Steel <input type="checkbox"/> Galvanized <input type="checkbox"/> Concrete <input type="checkbox"/> Open hole <input type="checkbox"/> Plastic	188	4	18 1/2
17-18	<input type="checkbox"/> Steel <input type="checkbox"/> Galvanized <input type="checkbox"/> Concrete <input type="checkbox"/> Open hole <input type="checkbox"/> Plastic			20-23
24-25	<input type="checkbox"/> Steel <input type="checkbox"/> Galvanized <input type="checkbox"/> Concrete <input type="checkbox"/> Open hole <input type="checkbox"/> Plastic			27-30

SCREEN	54	65	75	80
	Sizes of opening (Slot No.)	31-33	Diameter 34-38 inches	Length 39-40 feet
	Material and type		Depth at top of screen 41-44 feet	30

61		PLUGGING & SEALING RECORD	
<input type="checkbox"/> Annular space		<input checked="" type="checkbox"/> Abandonment	
Depth set at - feet		Material and type (Cement grout, bentonite, etc.)	
From	To		
10-13	14-17		
18-21	22-25		
26-29	30-33		
		80	

PUMPING TEST	Pumping test method ¹⁰ 1 <input type="checkbox"/> Pump 2 <input type="checkbox"/> Bailer		Pumping rate ¹¹⁻¹⁴ GPM		Duration of pumping ¹⁵⁻¹⁶ Hours ¹⁷⁻¹⁸ Mins	
	Static level	Water level end of pumping ²⁵	Water levels during		1 <input type="checkbox"/> Pumping 2 <input type="checkbox"/> Recovery	
	¹⁹⁻²¹	²²⁻²⁴	^{15 minutes} ²⁶⁻²⁸	^{30 minutes} ²⁹⁻³¹	^{45 minutes} ³²⁻³⁴	^{60 minutes} ³⁵⁻³⁷
	feet	feet	feet	feet	feet	feet
	If flowing give rate ³⁸⁻⁴¹ GPM		Pump intake set at feet		Water at end of test ⁴² <input type="checkbox"/> Clear <input type="checkbox"/> Cloudy	
	Recommended pump type <input type="checkbox"/> Shallow <input type="checkbox"/> Deep		Recommended pump setting ⁴³⁻⁴⁵ feet		Recommended pump rate ⁴⁶⁻⁴⁹ GPM	

FINAL STATUS OF WELL		54
1 <input type="checkbox"/> Water supply	5 <input checked="" type="checkbox"/> Abandoned, insufficient supply	9 <input type="checkbox"/> Unfinished
2 <input type="checkbox"/> Observation well	6 <input type="checkbox"/> Abandoned, poor quality	10 <input type="checkbox"/> Replacement well
3 <input type="checkbox"/> Test hole	7 <input type="checkbox"/> Abandoned (Other)	
4 <input type="checkbox"/> Recharge well	8 <input type="checkbox"/> Dewatering	

WATER USE		55-56
1 <input checked="" type="checkbox"/> Domestic	5 <input type="checkbox"/> Commercial	9 <input type="checkbox"/> Not use
2 <input type="checkbox"/> Stock	6 <input type="checkbox"/> Municipal	10 <input type="checkbox"/> Other
3 <input type="checkbox"/> Irrigation	7 <input type="checkbox"/> Public supply	
4 <input type="checkbox"/> Industrial	8 <input type="checkbox"/> Cooling & air conditioning	

METHOD OF CONSTRUCTION		57
1 <input checked="" type="checkbox"/> Cable tool	5 <input type="checkbox"/> Air percussion	9 <input type="checkbox"/> Driving
2 <input type="checkbox"/> Rotary (conventional)	6 <input type="checkbox"/> Boring	10 <input type="checkbox"/> Digging
3 <input type="checkbox"/> Rotary (reverse)	7 <input type="checkbox"/> Diamond	11 <input type="checkbox"/> Other
4 <input type="checkbox"/> Rotary (air)	8 <input type="checkbox"/> Jetting	

LOCATION OF WELL

In diagram below show distances of well from road and lot line.
Indicate north by arrow.

FERNBANK RD.

153'

69'

45° 16, 10 N

75° 52 66 W

255320

Name of Well Contractor T. SAUNDERS DRILLING LTD	Well Contractor's Licence No. 4879
Address RR#1 BRAESIDE CMT.	K0N 1B0
Name of Well Technician TROY SAUNDERS	Well Technician's Licence No. T-517
Signature of Technician/Contractor <i>Troy Saunders</i>	Submission date 20 9 03 day mo yr

MINISTRY USE ONLY	Data source	58 Contractor 4879	59-62	Date received	53-68 SEP 17 2003	80
	Date of inspection		Inspector			
Remarks						

Township, Village, Town or City Goulbourn

Date completed 2 5 68
(day month year)

Address R.R. # Stittsville Ont.

Casing and Screen Record

Inside diameter of casing 4"

Total length of casing 48'

Type of screen 20 mesh

Length of screen 10'

Depth to top of screen 38'

Diameter of finished hole 3 3/4"

Pumping Test

Static level 10'

Test-pumping rate 5 G.P.M.

Pumping level 15'

Duration of test pumping 2 1/2 hrs

Water clear or cloudy at end of test clear

Recommended pumping rate 5 G.P.M.

with pump setting of 25' feet below ground surface

Well Log		Water Record		
Overburden and Bedrock Record		From ft.	To ft.	Depth(s) at which water(s) found
<u>Clay loam</u>		<u>0</u>	<u>48</u>	
<u>gray limestone</u>		<u>48</u>	<u>70</u>	<u>60-70 fresh</u>

For what purpose(s) is the water to be used?
For watering cattle-house trailer

Is well on upland, in valley, or on hillside? valley

Drilling or Boring Firm F. P. Sparks

100 main St.

Address Stittsville Ont.

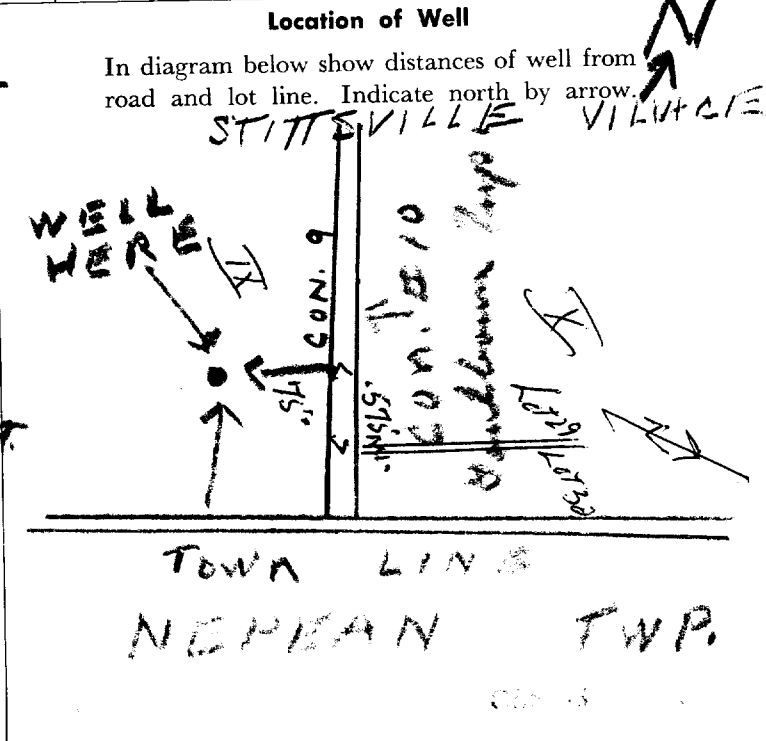
Licence Number _____

Name of Driller or Borer Robert Sparks

Address 100 main St Stittsville Ont.

Date May 2 1968

Robert Sparks
(Signature of Licensed Drilling or Boring Contractor)



Address of Well Location (Street Number/Name, R.R.) **#5440 Fernbank Road** Township **Boulbourn** Lot **29** Concession **9**

County/District/Municipality **Ottawa-Carleton** City/Town/Village **Stittsville** Province **Ontario** Postal Code _____

UTM Coordinates Zone **18** Easting **431551** Northing **5013404** GPS Unit Make **Magellan** Model **200** Mode of Operation: ☐ Undifferentiated ☒ Averaged ☐ Differentiated, specify _____

Overburden and Bedrock Materials (see instructions on the back of this form)				
General Colour	Most Common Material	Other Materials	General Description	Depth (Metres) From To
	Blue Clay			0 24.38
	Clay gravel	Boulders		24.38 34.74
	Green+grey	limestone		34.74 45.71

Annular Space/Abandonment Sealing Record		
Depth Set at (Metres) From To	Type of Sealant Used (Material and Type)	Volume Placed (Cubic Metres)
37.79 34.74	Neat Cement slurry	4086
34.74 0	Bentonite slurry	1.72

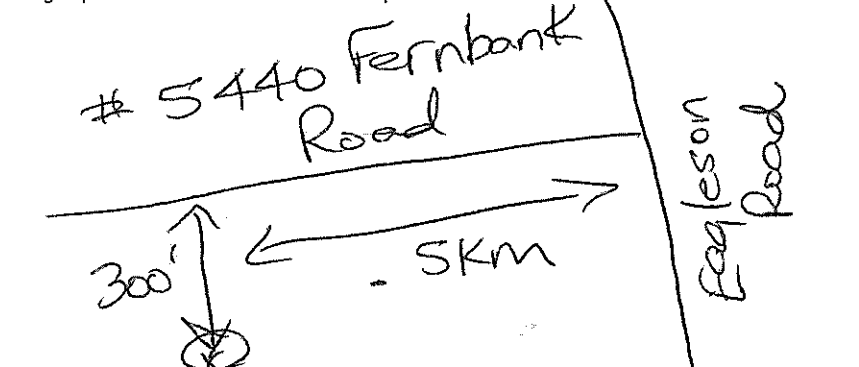
Method of Construction		Water Use	
<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Diamond	<input type="checkbox"/> Public	<input type="checkbox"/> Commercial
<input type="checkbox"/> Rotary (Conventional)	<input type="checkbox"/> Jetting	<input checked="" type="checkbox"/> Domestic	<input type="checkbox"/> Municipal
<input type="checkbox"/> Rotary (Reverse)	<input type="checkbox"/> Driving	<input type="checkbox"/> Livestock	<input type="checkbox"/> Test Hole
<input type="checkbox"/> Rotary (Air)	<input type="checkbox"/> Digging	<input type="checkbox"/> Irrigation	<input type="checkbox"/> Cooling & Air Conditioning
<input checked="" type="checkbox"/> Air percussion	<input type="checkbox"/> Boring	<input type="checkbox"/> Industrial	
<input type="checkbox"/> Other, specify _____		<input type="checkbox"/> Other, specify _____	

Status of Well	
<input checked="" type="checkbox"/> Water Supply	<input type="checkbox"/> Dewatering Well
<input type="checkbox"/> Replacement Well	<input type="checkbox"/> Abandoned, Insufficient Supply
<input type="checkbox"/> Test Hole	<input type="checkbox"/> Abandoned, Poor Water Quality
<input type="checkbox"/> Recharge Well	<input type="checkbox"/> Abandoned, other, specify _____
<input type="checkbox"/> Observation and/or Monitoring Hole	<input type="checkbox"/> Alteration (Construction)
<input type="checkbox"/> Other, specify _____	

Location of Well

Please provide a map below showing:

- all property boundaries, and measurements sufficient to locate the well in relation to fixed points,
- an arrow indicating the North direction
- detailed drawings can be provided as attachments no larger than legal size (8.5" by 14")
- digital pictures of inside of well can also be provided



Date Well Completed (yyyy/mm/dd) 2007-10-30	Was the well owner's information package delivered? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date the Well Record and Package Delivered to Well Owner (yyyy/mm/dd) 2007-10-31
---	---	--

Well Contractor and Well Technician Information	
Business Name of Well Contractor Air Rock Drilling Co LTD	Well Contractor's Licence No. 11119
Business Address (Street No./Name, number, R.R.) RR #1	Municipality Richmond
Province Ont	Postal Code K0A2Z0
Business E-mail Address 6138382170	Name of Well Technician (Last Name, First Name) Desautiers, Ken
Well Technician's Licence No. T4	Signature of Technician <i>Ken Desautiers</i>
	Date Submitted (yyyy/mm/dd) 2007-12-03

Results of Well Yield Testing			
Draw Down		Recovery	
Time (Min)	Water Level (Metres)	Time (Min)	Water Level (Metres)
Static Level	3.28	Static Level	4.30
1	4.07	1	3.40
2	4.13	2	3.35
3	4.15	3	3.30
4	4.15	4	3.28
5	4.15	5	
10	4.17	10	
15	4.20	15	
20	4.22	20	
25	4.25	25	
30	4.26	30	
40	4.27	40	
50	4.29	50	
60	4.30	60	

Check box if after test of well yield, water was:
☐ Clear and sand free
☒ Cannot develop to sand free state

If pumping discontinued, give reason:
Sup pump.

Pumping test method
Sup pump.

Pump intake set at (Metres)
36.57

Pumping rate (Litres/min)
91.00

Duration of pumping
1 hrs + **0** min

Final water level end of pumping (Metres)
4.30

Recommended pump type
☐ Shallow ☒ Deep

Recommended pump depth
36.57 Metres

Recommended pump rate (Litres/min)
91.00

If flowing give rate (Litres/min)
X

Water Details	
Water found at Depth 42.97 Metres	Kind of Water <input type="checkbox"/> Gas <input type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals
Water found at Depth _____ Metres	Kind of Water <input type="checkbox"/> Gas <input type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals
Water found at Depth _____ Metres	Kind of Water <input type="checkbox"/> Gas <input type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals

Casing Used	Screen Used	Casing and Well Details
<input type="checkbox"/> Galvanized <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete	<input type="checkbox"/> Galvanized <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input checked="" type="checkbox"/> Concrete	Diameter of the Hole (Centimetres) 15.87 Depth of the Hole (Metres) 45.71 Wall Thickness (Metres) 4.8 cm
No Casing and Screen Used		Inside Diameter of the Casing (Metres) 15.86
<input checked="" type="checkbox"/> Open Hole 37.79-45.71		Depth of the Casing (Metres) 38.40
Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

Ministry Use Only	
Audit No. z61137	Well Contractor No.
Date Received (yyyy/mm/dd) DEC 14 2007	Date of Inspection (yyyy/mm/dd)
Remarks	



The Ontario Water Resources Act

WATER WELL RECORD

Print only in spaces provided.

Mark correct box with a checkmark, where applicable.

11

1533651

Municipality **15003** Con. **CON** **10**

County or District GOULBURN	Township/Borough/City/Town/Village GOULBURN	Con block tract survey, etc. 10	Lot 30
Address of Well Location 5355 FERNBANK Rd		Date completed 20 day 12 month 02 year	

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)

General colour	Most common material	Other materials	General description	Depth - feet	
				From	To
			THIS IS TO INFORM THAT THE WELL CASING HAS BEEN EXTENDED ABOVE THE GROUND SURFACE. THIS DOCUMENT IS AN ATTACHMENT TO THE ORIGINAL WELL RECORD WHICH MAY OR MAY NOT EXIST		
			OVERALL WELL DEPTH = 20'		

[illegible]

41		10		14		15		21	
WATER RECORD									
Water found at - feet			Kind of water						
10-13			1 <input type="checkbox"/> Fresh		3 <input type="checkbox"/> Sulphur		14		
			2 <input type="checkbox"/> Salty		4 <input type="checkbox"/> Minerals		6 <input type="checkbox"/> Gas		
15-18			1 <input type="checkbox"/> Fresh		3 <input type="checkbox"/> Sulphur		19		
			2 <input type="checkbox"/> Salty		4 <input type="checkbox"/> Minerals		6 <input type="checkbox"/> Gas		
20-23			1 <input type="checkbox"/> Fresh		3 <input type="checkbox"/> Sulphur		24		
			2 <input type="checkbox"/> Salty		4 <input type="checkbox"/> Minerals		6 <input type="checkbox"/> Gas		
25-28			1 <input type="checkbox"/> Fresh		3 <input type="checkbox"/> Sulphur		29		
			2 <input type="checkbox"/> Salty		4 <input type="checkbox"/> Minerals		6 <input type="checkbox"/> Gas		
30-33			1 <input type="checkbox"/> Fresh		3 <input type="checkbox"/> Sulphur		34		
			2 <input type="checkbox"/> Salty		4 <input type="checkbox"/> Minerals		6 <input type="checkbox"/> Gas		

51		32		43	
CASING & OPEN HOLE RECORD					
Inside diam inches	Material	Wall thickness inches	Depth - feet		
			From	To	
10-11 6"	1 <input type="checkbox"/> Steel 2 <input type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input type="checkbox"/> Open hole 5 <input type="checkbox"/> Plastic	12		13-16	
17-18	1 <input type="checkbox"/> Steel 2 <input type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input type="checkbox"/> Open hole 5 <input type="checkbox"/> Plastic	19		20-23	
24-25	1 <input type="checkbox"/> Steel 2 <input type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input type="checkbox"/> Open hole 5 <input type="checkbox"/> Plastic	26		27-30	

SCREEN	Sizes of opening (Slot No.)	31-33	Diameter	34-38	Length	39-40
			inches		feet	
	Material and type			Depth at top of screen		30
				41-44		
				feet		

61 PLUGGING & SEALING RECORD			
<input type="checkbox"/> Annular space		<input type="checkbox"/> Abandonment	
Depth set at - feet		Material and type (Cement grout, bentonite, etc.)	
From	To		
10-13	14-17		
18-21	22-25		
26-29	30-33		
		80	

PUMPING TEST	Pumping test method ¹⁰ 1 <input type="checkbox"/> Pump 2 <input type="checkbox"/> Bailer		Pumping rate ¹¹⁻¹⁴ GPM		Duration of pumping ¹⁵⁻¹⁶ Hours _____ Mins ¹⁷⁻¹⁸	
	Static level	Water level end of pumping ²⁵	Water levels during 1 <input type="checkbox"/> Pumping 2 <input type="checkbox"/> Recovery			
	¹⁹⁻²¹ 8' feet	²²⁻²⁴ feet	²⁶⁻²⁸ 15 minutes feet	²⁹⁻³¹ 30 minutes feet	³²⁻³⁴ 45 minutes feet	³⁵⁻³⁷ 60 minutes feet
	If flowing give rate ³⁸⁻⁴¹ GPM	Pump intake set at ⁴² 50' feet		Water at end of test <input type="checkbox"/> Clear <input type="checkbox"/> Cloudy		
	Recommended pump type <input type="checkbox"/> Shallow <input type="checkbox"/> Deep	Recommended pump setting ⁴³⁻⁴⁵ feet		Recommended pump rate ⁴⁶⁻⁴⁹ GPM		
	50-53					

FINAL STATUS OF WELL			54
1 <input type="checkbox"/> Water supply	5 <input type="checkbox"/> Abandoned, insufficient supply	9 <input type="checkbox"/> Unfinished	
2 <input type="checkbox"/> Observation well	6 <input type="checkbox"/> Abandoned, poor quality	10 <input type="checkbox"/> Replacement well	
3 <input type="checkbox"/> Test hole	7 <input type="checkbox"/> Abandoned (Other)		
4 <input type="checkbox"/> Recharge well	8 <input type="checkbox"/> Dewatering		

WATER USE			55-56
1 <input type="checkbox"/> Domestic	5 <input type="checkbox"/> Commercial	9 <input type="checkbox"/> Not use	
2 <input type="checkbox"/> Stock	6 <input type="checkbox"/> Municipal	10 <input type="checkbox"/> Other	
3 <input type="checkbox"/> Irrigation	7 <input type="checkbox"/> Public supply		
4 <input type="checkbox"/> Industrial	8 <input type="checkbox"/> Cooling & air conditioning		

METHOD OF CONSTRUCTION			57
1 <input type="checkbox"/> Cable tool	5 <input type="checkbox"/> Air percussion	9 <input type="checkbox"/> Driving	
2 <input type="checkbox"/> Rotary (conventional)	6 <input type="checkbox"/> Boring	10 <input type="checkbox"/> Digging	
3 <input type="checkbox"/> Rotary (reverse)	7 <input type="checkbox"/> Diamond	11 <input checked="" type="checkbox"/> Other	WELL
4 <input type="checkbox"/> Rotary (air)	8 <input type="checkbox"/> Jetting		

CASING EXTENSION

LOCATION OF WELL

In diagram below show distances of well from road and lot line. Indicate north by arrow.

21' 36'

WELL

FERMBANK RD

257728

Name of Well Contractor	Well Contractor's Licence No.
AQUA PUMP SERVICE	6907
Address	
5555 FERNBANK RD.	
Name of Well Technician	Well Technician's Licence No.
Barry Webb	T-2489
Signature of Technician/Contractor	Submission date
<i>[Signature]</i>	03 day 04 mo 03 yr

MINISTRY USE ONLY	Data source	58	Contractor	59-62	Date received	63-68	69-70
			6907	APR 08 2003			
	Date of inspection		Inspector				
	Remarks						
	CSS.ES3						

Ministry of the
Environment

WATER WELL RECORD

Ontario

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

11 1516663

MUNICIP.
15003

CON.
CQN

0.9

1. PRINT ONLY IN SPACES PROVIDED		2. CHECK <input checked="" type="checkbox"/> CORRECT BOX WHERE APPLICABLE		11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
COUNTY OR DISTRICT <i>Carlton</i>										TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE <i>Southbourn</i>										CON.. BLOCK. TRACT. SURVEY, ETC. <i>9</i>										LOT <i>030</i>																																																															
OWNER (SURNAME FIRST) <i>Van De Ven Const.</i>										ADDRESS <i>High 16, Manotick Ont</i>										DATE COMPLETED DAY <i>15</i> MO <i>08</i> YR <i>78</i>																																																																									
U <i>18</i>										EASTING <i>431399</i>										NORTHING <i>5613699</i>										RC <i>41</i>										ELEVATION <i>10320</i>										RC <i>4</i>										BASIN CODE <i>26</i>																																	

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

[illegible]

MOE
VF-18

31 0012605 0152305 01852157485

WATER RECORD

WATER FOUND AT - FEET		KIND OF WATER		
0180	10-13	1 <input checked="" type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	14
		2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL	
	15-18	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	19
		2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL	
	20-23	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	24
		2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL	
	25-28	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	29
		2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL	
	30-33	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	34
		2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL	

CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES		MATERIAL		WALL THICKNESS INCHES		DEPTH - FEET	
						FROM	TO
13-14	1 <input checked="" type="checkbox"/> STEEL	12					
6 1/4	2 <input type="checkbox"/> GALVANIZED			.188		0	0157
06	3 <input type="checkbox"/> CONCRETE						
	4 <input type="checkbox"/> OPEN HOLE						
17-18	1 <input type="checkbox"/> STEEL	19					
	2 <input type="checkbox"/> GALVANIZED						
06	3 <input type="checkbox"/> CONCRETE						
	4 <input checked="" type="checkbox"/> OPEN HOLE					157	0185
24-25	1 <input type="checkbox"/> STEEL	26					
	2 <input type="checkbox"/> GALVANIZED						
	3 <input type="checkbox"/> CONCRETE						
	4 <input type="checkbox"/> OPEN HOLE						

PLUGGING & SEALING RECORD

DEPTH SET AT - FEET		MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
FROM	TO	
10-13	14-17	
18-21	22-25	
26-29	30-33	80

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.

1.7 mi

32'

39'

North Arrow

DRILLER'S REMARKS:

**FINAL
STATUS
OF WELL**

1 ☐ WATER SUPPLY 5 ☐ ABANDONED, INSUFFICIENT SUPPLY
2 ☐ OBSERVATION WELL 6 ☐ ABANDONED, POOR QUALITY
3 ☐ TEST HOLE 7 ☐ UNFINISHED
4 ☐ RECHARGE WELL

WATER USE

1 ☒ DOMESTIC
2 ☐ STOCK
3 ☐ IRRIGATION
4 ☐ INDUSTRIAL
5 ☐ COMMERCIAL
6 ☐ MUNICIPAL
7 ☐ PUBLIC SUPPLY
8 ☐ COOLING OR AIR CONDITIONING
9 ☐ NOT USED
☐ OTHER

METHOD OF DRILLING

1 <input type="checkbox"/> CABLE TOOL	6 <input type="checkbox"/> BORING
2 <input type="checkbox"/> ROTARY (CONVENTIONAL)	7 <input type="checkbox"/> DIAMOND
3 <input type="checkbox"/> ROTARY (REVERSE)	8 <input type="checkbox"/> JETTING
4 <input type="checkbox"/> ROTARY (AIR)	9 <input type="checkbox"/> DRIVING
5 <input checked="" type="checkbox"/> AIR PERCUSSION	

CONTRACTOR	NAME OF WELL CONTRACTOR	LICENCE NUMBER
	CAPITAL WATER SUPPLY LTD	1558
	ADDRESS	
	Box 490, STITTVILLE	
	NAME OF DRILLER OR BORER	LICENCE NUMBER
	S. Miller	
	SIGNATURE OF CONTRACTOR	SUBMISSION DATE
	W. Kavanagh	DAY 16 MO. 8 YEAR 78

OFFICE USE ONLY	DRIVER'S REMARKS				63-68		80
	DATA SOURCE	58	CONTRACTOR	59-62	DATE RECEIVED		
	1		1538		080978		
	DATE OF INSPECTION		INSPECTOR				
			K.m.				
	REMARKS:						
	1538						

Date Nov. 22/48 Licence Number 339



N	A
---	---

Regulation 903 Ontario Water Resources Act

Measurements recorded in: ☐ Metric ☒ Imperial

Page of

Well Owner's Information

First Name	Last Name / Organization	<input type="checkbox"/> Well Constructed by Well Owner
City	Ottawa	

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. (inc. area code)
1000 10th St	Calgary	Alberta	T2C 1A1	(403) 243-1111

Well Location

Address of Well Location (Street Number/Name) # 5371 Fernbank Road	Township Goulbourn	Lot P/L 30	Concession 10.
---	-----------------------	---------------	-------------------

County/District/Municipality	City/Town/Village	Province	Postal Code
Hawkesbury-Carleton	Stittsville	Ontario	

UTM Coordinates			Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD	8	3	18	43	162059	13745	

Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form)

General Colour	Most Common Material	Other Materials	General Description	Depth (m)
				From To
	6" Drilled	Well Abandonment		0' 146'

* P-0 # 33461 *

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
146'	6'	Hole Plug	11 Bags.
6'	0'	Backfill	

Method of Construction

<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Diamond	<input type="checkbox"/> Public	<input type="checkbox"/> Commercial	<input type="checkbox"/> Not used
<input type="checkbox"/> Rotary (Conventional)	<input type="checkbox"/> Jetting	<input type="checkbox"/> Domestic	<input type="checkbox"/> Municipal	<input type="checkbox"/> Dewatering
<input type="checkbox"/> Rotary (Reverse)	<input type="checkbox"/> Driving	<input type="checkbox"/> Livestock	<input type="checkbox"/> Test Hole	<input checked="" type="checkbox"/> Monitoring
<input type="checkbox"/> Boring	<input type="checkbox"/> Digging	<input type="checkbox"/> Irrigation	<input type="checkbox"/> Cooling & Air Conditioning	
<input type="checkbox"/> Air percussion		<input type="checkbox"/> Industrial		
<input type="checkbox"/> Other, specify _____		<input type="checkbox"/> Other, specify _____		

Well Use

<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Diamond	<input type="checkbox"/> Public	<input type="checkbox"/> Commercial	<input type="checkbox"/> Not used
<input type="checkbox"/> Rotary (Conventional)	<input type="checkbox"/> Jetting	<input type="checkbox"/> Domestic	<input type="checkbox"/> Municipal	<input type="checkbox"/> Dewatering
<input type="checkbox"/> Rotary (Reverse)	<input type="checkbox"/> Driving	<input type="checkbox"/> Livestock	<input type="checkbox"/> Test Hole	<input checked="" type="checkbox"/> Monitoring
<input type="checkbox"/> Boring	<input type="checkbox"/> Digging	<input type="checkbox"/> Irrigation	<input type="checkbox"/> Cooling & Air Conditioning	
<input type="checkbox"/> Air percussion		<input type="checkbox"/> Industrial		
<input type="checkbox"/> Other, specify _____		<input type="checkbox"/> Other, specify _____		

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		
			From	To	
					<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input checked="" type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, etc.

Status of Well

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		
			From	To	
					<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input checked="" type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, etc.

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
			From	To

☐ Abandoned, Poor Water Quality
☐ Abandoned, other, *specify* _____
☐ Other, *specify* _____

Water Details

Water found at Depth (m/ft) <input type="checkbox"/> Gas	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Other, <i>specify</i> _____
Water found at Depth (m/ft) <input type="checkbox"/> Gas	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Other, <i>specify</i> _____
Water found at Depth (m/ft) <input type="checkbox"/> Gas	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Other, <i>specify</i> _____

Hole Diameter

Water found at Depth (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Other, specify _____	Depth (m/ft)		Diameter (cm/in)
		From	To	
Water found at Depth (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Other, specify _____			
Water found at Depth (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Other, specify _____			
Water found at Depth (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Other, specify _____			

Well Contractor and Well Technician Information

Business Name of Well Contractor		Well Contractor's Licence No.
AIR Rock DRILLING Co LTD		1119
Business Address (Street Number/Name)		Municipality
RR#1 RICHMOND		
Province	Postal Code	Business E-mail Address

Province	Postal Code	Business E-mail Address
ONT	K0A0Z0	

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
613 838 0170	Desautels Kon

Well Technician's Licence No. 14 Signature of Technician and/or Contractor [Signature] Date Submitted 2011/11/30

Results of Well Yield Testing

After test of well yield, water was:		Draw Down		Recovery	
<input type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, <i>specify</i> _____		Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason:		Static Level			
		1		1	
Pump intake set at (m/ft)		2		2	
		3		3	
Pumping rate (l/min / GPM)		4		4	
		5		5	
Duration of pumping ____ hrs + ____ min		10		10	
Final water level end of pumping (m/ft)		15		15	
		20		20	
If flowing give rate (l/min / GPM)		25		25	
		30		30	
Recommended pump depth (m/ft)		40		40	
		50		50	
Recommended pump rate (l/min / GPM)		60		60	
Well production (l/min / GPM)					
Disinfected? _____					
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					

Map of Well Location

Please provide a map below following instructions on the back.

Terry Fox Drive

#5371
Fernbank
Road

1 KM.

150'

A hand-drawn map on a grid background. A vertical line on the left is labeled 'Terry Fox Drive'. A horizontal line is labeled '#5371 Fernbank Road'. At the intersection, a circled 'X' marks a house. A double-headed arrow below the intersection indicates a distance of '1 KM.' to the left. A vertical double-headed arrow to the right of the house indicates a distance of '150\'' from the road.

Comments:

Well owner's
information
package
delivered

Date Package Delivered							
Y	Y	Y	Y	M	M	D	D

Date Work Completed 2011020

Ministry Use Only

Audit No. **Z 137090**
JAN 26 2012
Received

Well ID

Well ID Number: 1502817

Well Audit Number:

Well Tag Number:

This table contains information from the original well record and any subsequent updates.

Well Location

Address of Well Location

Township	GOULBOURN TOWNSHIP
Lot	030
Concession	CON 10
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	
Province	ON
Postal Code	n/a

UTM Coordinates
NAD83 — Zone 18
Easting: 431630.70
Northing: 5013722.00

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
BLUE	CLAY			0 ft	100 ft
GREY	CLAY	STNS		100 ft	112 ft

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
-------------------	-----------------	---	----------------------

Method of Construction & Well Use

Method of Construction

Cable Tool

Well Use

Domestic

Livestock

Status of Well

Water Supply

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
4 inch	STEEL		112 ft



2/A

Regulation 903 Ontario Water Resources Act

Page _____ of _____

First Name	Last Name / Organization				<input type="checkbox"/> Well Constructed by Well Owner	
City of Ottawa						
Mailing Address (Street Number/Name)		Municipality	Province	Postal Code	Telephone No. (inc. area code)	
Instruction #9094		Cavanagh Road	Ontario	K0A1B0		

Address of Well Location (Street Number/Name)				Township		Lot		Concession	
# 5355 Fernbank Road				Goulbourn		P/L30		10	
County/District/Municipality				City/Town/Village		Province		Postal Code	
Ottawa-Carleton				Stittsville		Ontario			
UTM Coordinates		Zone	Easting	Northing		Municipal Plan and Sublot Number		Other	
NAD 8 3		18	431726	5013745					

[illegible]

Depth Set at (feet)	To	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)
86'	6'	hole Plug	6 Bags.
6'	0'	Backfill	

After test of well yield, water was:		Draw Down		Recovery	
<input type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify _____		Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason:		Static Level			
		1		1	
Pump intake set at (m/ft)		2		2	
Pumping rate (l/min / GPM)		3		3	
Duration of pumping _____ hrs + _____ min		4		4	
Final water level end of pumping (m/ft)		5		5	
If flowing give rate (l/min / GPM)		10		10	
Recommended pump depth (m/ft)		15		15	
Recommended pump rate (l/min / GPM)		20		20	
Well production (l/min / GPM)		25		25	
Disinfected?		30		30	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		40		40	
		50		50	
		60		60	

[illegible]

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
			From	To

☐ Abandoned, 1980
 Water Quality
☐ Abandoned, other,
 specify _____
☐ Other, specify _____

Water found at Depth (m/ft) <input type="checkbox"/> Gas	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Other, specify _____	Depth (m/ft)		Diameter (cm/in)
		From	To	
Water found at Depth (m/ft) <input type="checkbox"/> Gas	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Other, specify _____			
Water found at Depth (m/ft) <input type="checkbox"/> Gas	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Other, specify _____			
Water found at Depth (m/ft) <input type="checkbox"/> Gas	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Other, specify _____			

[illegible]

Business Name of Well Contractor		Well Contractor's Licence No.	
AIR ROCK DRILLING LTD		1119	
Business Address (Street Number/Name)		Municipality	
RR# 1		RICHMOND	
Province	Postal Code	Business E-mail Address	
ONT	K0A 2Z0		
Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)		
613 838 2170	Desautniers Ken		
Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted	
T4	Ken Desautniers	2011 Y M 30	

Please provide a map below following instructions on the back.

A hand-drawn map on lined paper. A diagonal line represents Terry Fox Drive, with the text "Terry Fox Drive" written vertically along it. A horizontal line represents Farnbank Road, with the text "Farnbank Road" written above it. A circled 'X' marks a location. A horizontal double-headed arrow between the drive and the 'X' is labeled "500'". A vertical double-headed arrow from the road to the 'X' is labeled "80'".

Comments:

Well owner's information package delivered <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date Package Delivered Y Y Y Y M M D D 2 0 1 1 1 0 2 0	Ministry Use Only Audit No. z137084 Received JAN 26 2012
	Date Work Completed Y Y Y Y M M D D 2 0 1 1 1 0 2 0	

B

512 No 592 31
UTM 512 824 31700 E

5 R 500 3 5 4 0 N

The Ontario Water Resources Commission Act

Elev. 4^R 0322

WATER WELL RECORD

Basin 215 Carlton
County or District

Township, Village, Town or City.....Goulbourn

Basin 25
County or District

Lot

30

Date completed 1st December 1967
(day month year)

ESS R.R. 1 - Stittsville, Ont.

Casing and Screen Record

Inside diameter of casing	4" old - 2"
Total length of casing	56 - 2"
Type of screen	-
Length of screen	-
Depth to top of screen	-
Diameter of finished hole	2

Pumping Test

Static level 4
Test-pumping rate 700 GPH ~~XXXXX~~
Pumping level 28
Duration of test pumping 1 hr.
Water clear or cloudy at end of test clear
Recommended pumping rate 5 G.P.M.
with pump setting of 40 feet below ground surface

Well Log

Water Record

Overburden and Bedrock Record

4" already drilled
2" sand
rock, sandstone & limestone
mix

From
ft.

To
ft.

Depth (s) at which water (s) found
--

Kind of water
(fresh, salty,
sulphur)

0	136
136	140
140	159

155	fresh
-----	-------

For what purpose(s) is the water to be used?.....**farm**

Is well on upland, in valley, or on hillside? **valley**

Drilling or Boring Firm

J. B. DUFRESNE & CO. LIMITED

Address 1014 Maitland Ave.,

Ottawa 5, Ont.

Licence Number

Name of Driller or Borer. **V. Cossette**

Address 60 Clarence - Eastview, Ont.

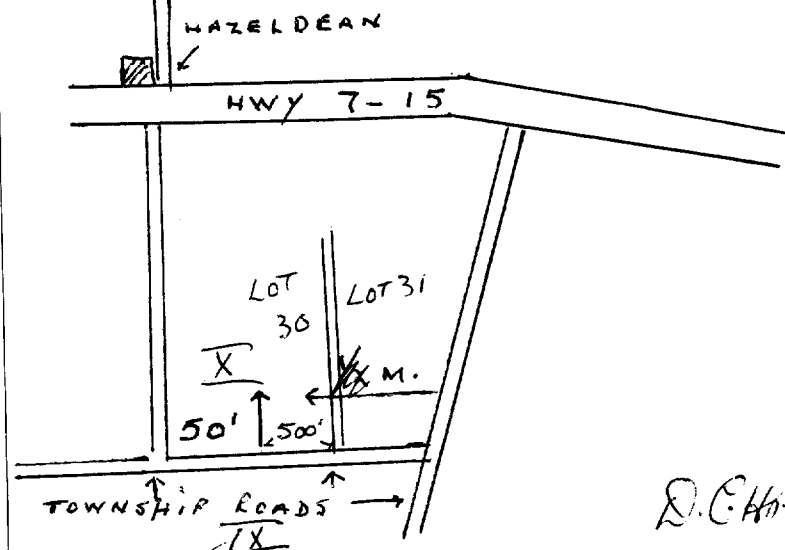
Date 0 December 1st 1967

(Signature of Licensed Drilling or Boring Contractor)
for: J.B. Dufresne & Co. Limited

Form 7 15M-60-4138

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



D. C. H.
Buried

OWRC COPY

1. PRINT ONLY IN SPACES PROVIDED

2. CHECK CORRECT BOX WHERE APPLICABLE

11

1522587

MUNICIPALITY 15003

CON.

COUNTY OR DISTRICT

TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE

CON. BLOCK TRACT. SURVEY, ETC.

LOT 25-27

Gaulbourn

10

30

R.R. #1 Stittsville, Ontario KOA 3G0

DATE COMPLETED

48-53

DAY 19 MO 07 YR 88

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
Brown	Clay	Boulders	Packed	0	16
Gray	Sand	Boulders	Loose	16	20
Gray	Limestone	Gravel Seams	Broken Layers	20	27
Gray	Limestone	Black Layers	Medium Hard	27	65

31

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER		
	1 FRESH	2 SALTY	3 SULPHUR 4 MINERALS 6 GAS
35	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
62	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
6 1/4	1 STEEL 2 GALVANIZED 3 CONCRETE 4 OPEN HOLE 5 PLASTIC	.188	0	31
6	1 STEEL 2 GALVANIZED 3 CONCRETE 4 OPEN HOLE 5 PLASTIC		31	65

SCREEN	SIZE (S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER, ETC.)
10-13	14-17
18-21	22-25
26-29	30-33

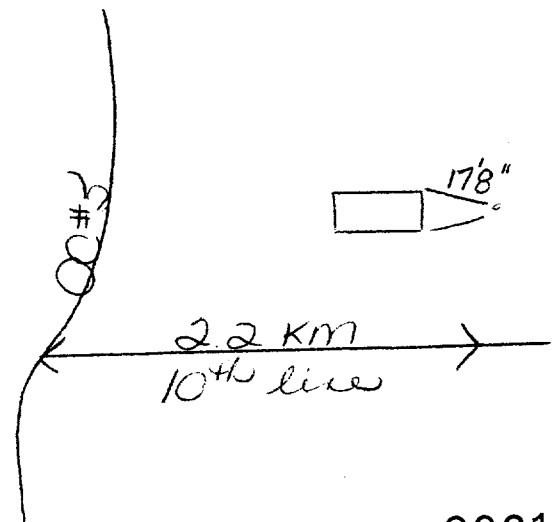
71

PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 PUMP 2 BAILER	10 GPM	1 HOURS
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING
19-21	22-24	15 MINUTES 26-28
11 FEET	40 FEET	30 MINUTES 29-31
		45 MINUTES 32-34
		60 MINUTES 35-37
40 FEET	40 FEET	40 FEET
IF FLOWING GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
<input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/> DEEP	50 FEET	5 GPM

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



38218

DRILLERS REMARKS

CONTRACTOR	NAME OF WELL CONTRACTOR	WELL CONTRACTOR'S LICENCE NUMBER
	Capital Water Supply Ltd.	1558
	ADDRESS	
	Box 490 Stittsville, Ontario KOA 3G0	
CONTRACTOR	NAME OF WELL TECHNICIAN	WELL TECHNICIAN'S LICENCE NUMBER
	J. Moore	T0096
	SIGNATURE OF TECHNICIAN/CONTRACTOR	
	DAY 19 MO 07 YR 88	

OFFICE USE ONLY	DATA SOURCE	CONTRACTOR	DATE RECEIVED
		1558	SEP 01 1988
	DATE OF INSPECTION	INSPECTOR	
	REMARKS		

09.53

APPENDIX 3

QUALIFICATIONS OF ASSESSORS

POSITION

Environmental Engineer

EDUCATION

Carleton University, B.Eng. 2010
Environmental Engineering

EXPERIENCE

2010-present

Paterson Group Inc.

Consulting Engineers

Geotechnical and Environmental Division

Environmental Engineer

**Environmental
Engineering**

**Geotechnical
Engineering**

**Materials Testing
Quality Control**

Building Sciences

Hydrogeology

Archeological Services

SELECT LIST OF PROJECTS

Rideau Street Reconstruction - Ottawa

Main Street Reconstruction - Ottawa

Woodroffe Avenue Reconstruction – Ottawa

Westboro Connection Remediation - Ottawa

Former Alcan Plant Redevelopment - Kingston

Former Nordex Facility Redevelopment - Kingston

Jack Garland Airport Remediation – North Bay

Highway 17 Twinning Project – Arnprior

Watermain Construction – North Bay

Waste Audits – Various City of Ottawa Facilities

Parks Recycling Pilot Program – Various City of Ottawa parks

Special Events Recycling Pilot Program – Special Events with the City of Ottawa

Groundwater Remediation and Monitoring Program Supervision – Ottawa

Designated Substance Surveys – Residential and Commercial Sites – Ottawa

Asbestos Air Testing – Various Locations - Ottawa

Mould Testing – Various Locations - Ottawa

Phase I & II Environmental Site Assessments – Residential, Commercial and Industrial Sites –
Ottawa (CSA Z768-01 and O.Reg 269/11)

Geotechnical
Engineering

Environmental
Engineering

Hydrogeology

Geological
Engineering

Materials Testing

Building Science

Archaeological
Services

POSITION

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

EDUCATION

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

MEMBERSHIPS

Ottawa Geotechnical Group
Professional Engineers of Ontario

EXPERIENCE

1991 to Present

Paterson Group Inc.

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

SELECT LIST OF PROJECTS

Mary River Exploration Mine Site - Northern Baffin Island
Agricultural Supply Facilities - Eastern Ontario
Laboratory Facility – Edmonton (Alberta)
Ottawa International Airport - Contaminant Migration Study - Ottawa
Richmond Road Reconstruction - Ottawa
Billings Hurdman Interconnect - Ottawa
Bank Street Reconstruction - Ottawa
Environmental Review – Various Laboratories across Canada - CFIA
Dwyer Hill Training Centre – Ottawa
Nortel Networks Environmental Monitoring - Carling Campus – Ottawa
Remediation Program - Block D Lands – Kingston
Investigation of former landfill sites – City of Ottawa
Record of Site Condition for Railway Lands – North Bay
Commercial Properties – Guelph and Brampton
Brownfields Remediation – Alcan Site - Kingston
Montreal Road Reconstruction - Ottawa
Appleford Street Residential Development - Ottawa
Remediation Program - Ottawa Train Yards
Remediation Program - Bayshore and Heron Gate
Gladstone Avenue Reconstruction – Ottawa
Somerset Avenue West Reconstruction - Ottawa