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Phase I Environmental Site Assessment

16 and 20 Hamilton Avenue North Ottawa, Ontario

Prepared For

Surface Developments

Paterson Group Inc.

Consulting Engineers 154 Colonnade Road South Ottawa (Nepean), Ontario Canada, K2E 7J5

Tel: (613) 226-7381 Fax: (613) 226-6344 www.patersongroup.ca October 24, 2018

Report: PE4341-2



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EXECUTIVE SUMMARY

Assessment

Paterson Group was retained by Surface Developments to conduct a Phase I Environmental Site Assessment (ESA) of the property addressed 16 and 20 Hamilton Avenue North, in the City of Ottawa, Ontario. The purpose of this Phase I ESA was to research the past and current use of the site and study area and to identify any environmental concerns with the potential to have impacted the subject property.

According to the historical research, the property was occupied by a machine shop (20 Hamilton Avenue North) and foundry (16 Hamilton Avenue North) from circa 1921 through 1956 and 1961 respectively. The portion of the Phase I Property addressed 16 Hamilton Avenue may have been used as a residential dwelling, based on City Directory listings, prior to its demolition at some time between 1965 and 1976. The building addressed 20 Hamilton Avenue North subsequently housed various establishments of an industrial or light industrial nature, until utilized as office space circa 1982. The industrial nature of the original uses of the Phase I Property is considered to have resulted in areas of potential concern (APECs) on the subject land.

The surrounding properties within the Phase I Study Area were historically used primarily for residential purposes, with occasional commercial or industrial properties. An automotive service garage present at 24 Hamilton Avenue, approximately 10m south of the Phase I Property, is a historical potentially contaminating activity (PCA) considered to result in an APEC on the subject land. Other off-site historical PCAs within the Phase I Study Area are not considered to represent APECs on the subject land based on their separation distances and orientations cross or downgradient with respect to the Phase I Property.

Following the historical research, Paterson conducted a site visit and a visual assessment of the properties within the Phase I Study Area. The Phase I Property is currently occupied by a commercial office building and paved parking lot. No PCAs were identified on the Phase I Property at the time of the site visit. Based on the findings of the subsurface investigation carried out for the property, fill material is present on site. The fill material is considered to represent an APEC on the Phase I Property.



Neighbouring properties are primarily residential with some commercial offices and institutional or community buildings and parkland. PCAs identified within the study area at the time of the site visit include the aforementioned automotive service garage at 24 Hamilton Avenue North, as well as a retail fuel outlet at 390 Parkdale Avenue. The automotive service garage is considered to represent an APEC on the Phase I Property based on its proximity and up-gradient orientation with respect to the site. The retail fuel outlet at 390 Parkdale Avenue is not considered to represent an APEC on the Phase I Property based on its separation distance of approximately 60m and its crossgradient orientation with respect to the subject land.

Conclusion

Based on the results of the Phase I ESA, in our opinion, a Phase II Environmental Site Assessment is required for the Phase I Property. A Phase II ESA has been completed. The findings of the subsurface investigation are provided under separate cover.



1.0 INTRODUCTION

At the request of Surface Developments, Paterson Group (Paterson) conducted a Phase I Environmental Site Assessment (Phase I ESA) for the property addressed 16 and 20 Hamilton Avenue North, in the City of Ottawa, Ontario. The purpose of this Phase I ESA was to research the past and current use of the site and study area and to identify any environmental concerns with the potential to have impacted the subject property.

Paterson was engaged to conduct this Phase I ESA by Mr. Michael Martin with Surface Developments. The office of Surface Developments is located at 88 Spadina Avenue, Ottawa, Ontario. Mr. Martin can be reached by telephone at (613) 233-4210.

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 the agreed scope-of-work and the requirements of Ontario Regulation 153/04 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: 16 and 20 Hamilton Avenue North, Ottawa, Ontario

Legal Description: Part Lots 3 and 4, Plan 58 Hamilton West and Part

Lots 3 and 4, Plan 157 Hamilton West, in the City of

Ottawa

Property Identification

Numbers: 04035-0139 and 04035-0137

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

Hamilton Avenue North between Wellington Street West and Armstrong Avenue, in Ottawa, Ontario. The subject site is shown on Figure 1 - Key Plan following

the body of this report.

Latitude and Longitude: 45° 24' 03" N, 75° 43' 50" W

Site Description:

Configuration: Rectangular

Site Area: 0.11 hectares (approximate)

Zoning: MC16 H(20) – Mixed Use Centre Zone

Current Use: The property addressed 16 Hamilton Avenue North is

currently a vacant lot used for parking. The property addressed 20 Hamilton Avenue North is currently occupied by a 1-storey commercial office building (Local 175 United Food and Commercial Workers

Union).

Services: The Phase I Property is located in a municipally

serviced area.



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 impacted the subject land, based on their significant distance from the site.

First Developed Use Determination

For the purposes of this report, and based on the documentation reviewed, the site is considered to have been first developed for commercial/industrial purposes circa 1921.

Fire Insurance Plans

Fire Insurance Plans (FIPs) from 1912, 1922, 1948 and 1956 were reviewed for the Phase I Property and Phase I Study Area. The Phase I Property was vacant, undeveloped land, according to the 1912 FIPs. The immediately adjacent property to the south was also vacant, undeveloped land. Properties within the Phase I Study Area primarily consisted of residential land use with occasional commercial/light industrial properties. A planing mill was present to the northeast of the Phase I Property, across Hamilton Avenue North, and a wire and cloth manufacturer was present further to the north, across Armstrong Avenue.

According to the 1922 FIPs, the Phase I Property was occupied by a machine shop (20 Hamilton Avenue) and a foundry (16 Hamilton Avenue). The aforementioned planing mill was no longer present to the northeast. Otherwise, no significant changes had been made to the surrounding properties within the Phase I Study Area, from the 1912 FIPs.

The 1948 FIPs depict the Phase I Property as being occupied by two apparent commercial buildings. The building at 20 Hamilton Avenue was identified as "the Big "A" Co. Ltd.", while the occupants of the building at 16 Hamilton Avenue were not identified. Three smaller unidentified buildings were also present at 16 Hamilton Avenue. Commercial development had increased within the Phase I Study Area, with a motor electrical service, an automotive service garage and a bowling alley to the south of the Phase I Property, at 22 and 26 Hamilton Avenue North.



Based on the 1956 FIPs, the property addressed 16 Hamilton Avenue North is a vacant lot. The building at 20 Hamilton Avenue North appears to remain unchanged from the previous FIP, however the building occupants are not identified. Retail fuel outlets and/or automotive service garages are present at 1185 Wellington Street and 402 Parkdale Avenue further to the southeast of the Phase I Property. Pattons Cleaner and Dyers is present at 1200 Wellington Street further south of the Phase I Property.

The automotive service garage at 24 Hamilton Avenue is considered to represent an area of potential environmental concern (APEC) on the Phase I Property.

City of Ottawa Street Directories

City directories at the National Archives were reviewed in approximate 10 year intervals from 1906 to 2011 as part of the Phase I ESA. Based on the directories, 16 Hamilton Avenue was first listed in 1916 as Davidson & Crooks Foundry. This portion of the Phase I Property was listed as such through 1956, followed by a residential listing in 1961. The property addressed 16 Hamilton Avenue North was not otherwise listed in the street directories.

The portion of the Phase I Property addressed 20 Hamilton Avenue North was listed in 1921 and 1926 as Gerard & Stewart Machinists. In 1931, this address was listed as Davidson & Crooks Foundry. From 1936 through ~1951, 20 Hamilton Avenue North was listed as EDH Company, Canadian Underfeed Coal Burner Ltd., Gerard & Stewart Machinists and/or Canada Brass & Machine Works. Subsequent listings include: Big A Co. (circa 1956 through 1961); Zentronics Ltd. (circa 1966); Decorator's Associates Drapery Manufacturer (1976); and United Food & Commercial Workers (circa 1989 through 2011).

The historical uses of the Phase I Property (specifically as a foundry and machine shop) are considered to represent APECs on the subject land.

Based on the City Directory review, off-site potentially contaminating activities within the Phase I Study Area include the following:

320 Parkdale Avenue - Dominion Loose Leaf printers (circa	1940's
1950's);	
75 Spencer Avenue (233 Armstrong Street) - foundry (circa	1950's
1960's);	
390 Parkdale Avenue - retail fuel outlet (circa 1990's to present da	y);



The aforementioned PCAs are not considered to represent APECs on the Phase I Property based on their respective separation distances of approximately 55 to 130m in combination with their down- or cross-gradient orientations with respect to the subject land.

Chain of Title

Based on a review of the City Directories and FIPs, the Phase I Property was first developed for industrial purposes as early as 1921 and was used as such until the late 1970's or early 1980's. The building at 20 Hamilton Avenue North was subsequently used for office space, while the building at 16 Hamilton Avenue North had been demolished and the lot paved for parking. Chain of Title information was not ordered as it was deemed that the other information from the records review would satisfy the objectives of the records search and that the information to be provided in a Chain of Title would not contribute additional environmental information relevant to the Phase I ESA.

Environmental Reports

Paterson has conducted several environmental investigations in the study area. Based on a review of our files, no additional potentially contaminating activities (PCAs) with the potential to impact the subject land, were identified.

A review of publicly available environmental reports was also conducted. Phase I ESAs for the properties addressed 12 Hamilton Avenue North (Golder Associates, August 2016) and 84, 86, 88 and 96 Hinton Avenue North (Pinchin Environmental, September 2014) were reviewed as part of this Phase I-ESA. Both reports produced similar findings, including no recommendations for further investigatory work.

Topographic Plan of Survey

A plan of survey was not available for the Phase I Property at the time this report was issued. Paterson was provided a Topographic Plan of Survey prepared by Farley, Smith & Denis surveying Ltd., and dated July 22, 2016, prepared for the adjacent property to the north (12 Hamilton Avenue North). Based on a review of the plan, the property addressed 16 Hamilton Avenue North is shown in its current configuration. Only a portion of the property addressed 20 Hamilton Avenue North is shown. The City of Ottawa electronic mapping site, identifies the entire Phase I Property in its current configuration.



4.2 Environmental Source Information

Environment Canada

A search of the National Pollutant Release Inventory (NPRI) was conducted electronically on October 18, 2018. The subject site and adjacent properties were not listed in the NPRI database. No records of pollutant release were listed in the database for properties located within the Phase I Study Area.

PCB Inventory

A search of national PCB waste storage sites was conducted. No PCB waste storage sites are located within the Phase I Study Area.

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

A request was submitted to the MECP Freedom of Information office for information with respect to certificates of approval, permits to take water, certificates of property use or any other similar MECP issued instruments for the site. A response had not been received from the MECP at the time this report was issued. Should the MECP response identify any pertinent information, it will be forwarded to the client upon receipt. A copy of the MECP request form is appended to this report.

MECP Coal Gasification Plant Inventory

The MECP 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.

MECP Incident Reports

A request was submitted to the MECP Freedom of Information office for information with respect to records concerning environmental incidents, orders, offences, spills, discharges of contaminants or inspections maintained by the MECP. A response had not been received from the MECP at the time this report was issued. Should the MECP response identify any pertinent information, it will be forwarded to the client upon receipt. A copy of the MECP request form is appended to this report.



MECP Waste Management Records

A request was submitted to the MECP Freedom of Information office for information with respect to waste management records. A response had not been received from the MECP at the time this report was issued. Should the MECP response identify any pertinent information, it will be forwarded to the client upon receipt. A copy of the MECP request form is appended to this report.

MECP Submissions

A request was submitted to the MECP Freedom of Information office for information with respect to reports related to environmental conditions that have been submitted to the MECP. A response had not been received from the MECP at the time this report was issued. Should the MECP response identify any pertinent information, it will be forwarded to the client upon receipt. A copy of the MECP request form is appended to this report.

MECP Brownfields Environmental Site Registry

A search of the MECP Brownfields Environmental Site Registry was conducted electronically as part of this assessment for the Phase I Property, neighbouring properties and the general area of the site. No Records of Site Condition (RSCs) were filed for the Phase I Property. RSCs filed by Paterson Group, were identified for two properties within the Phase I Study Area: 1233 Wellington Street West and 131 Holland Avenue. Based on the information contained in our files, these properties are not considered to be PCAs or represent APECs on the subject land.

MECP Waste Disposal Site Inventory

The Ontario Ministry of Environment and Climate Change 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. The waste disposal inventory did not identify any active or closed 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) on October 18, 2018. The search did not reveal any natural features or areas of natural significance on the Phase I Property or within the Phase I Study Area.

Technical Standards and Safety Authority (TSSA)

The TSSA, Fuels Safety Branch in Toronto was contacted electronically on October 25, 2018 to inquire about current and former underground storage tanks, spills and incidents for the site and neighbouring properties. A response from the TSSA had not be received at the time this report was issued. Any pertinent information will be forwarded to the client upon receipt. A copy of the TSSA request is appended to this report.

Based on information in our files, the TSSA has records for expired fuel tanks at two properties within the study area: 390 Parkdale Avenue and 1186 Wellington Street. The property at 390 Parkdale Avenue was also listed as an active gasoline station with two active tanks and a cylinder exchange program. Based on the separation distances and orientations with respect to the Phase I Property, these properties are not considered to pose a concern to the subject land.

City of Ottawa Landfill Document

The document entitled "Old Landfill Management Strategy, Phase I – Identification of Sites, City of Ottawa", was reviewed. No former landfills are located within the Phase I Study Area.

Former Industrial Sites

The report entitled "Mapping and Assessment of Former Industrial Sites, City of Ottawa" was also reviewed. The northern portion of the Phase I Property was listed in the report as the Davidson Foundry (Site 55), at 16-18 Hamilton Avenue.

The following properties within the Phase I Study area were also listed in the report:

☐ Site 54: Capital Wire Cloth and Manufacturing Co. Ltd. at 1 Hinton Street, located approximately 60m to the north;



Site 51: Patton Cleaners and Dyers, corner of Wellington Street and Hamilton Avenue, approximately 75m to the south;			
 Site 53: J. Robinson, foundry, 2 Hinton Avenue, approximately 110m northwest; Site 56: Dominion Loose Leaf Co. Ltd., 320 Parkdale Avenue, approximately 135m north; and Site 57: Beach Foundry Co. Ltd., Hinton Avenue, approximately 100 m north. 			
The former use of the Phase I Property for industrial purposes is considered to result in an APEC on the Phase I Property. The aforementioned former industrial sites located within the Phase I Study Area, are not considered to represent APECs on the Phase I Property based on their separation distances and/or orientations down- or cross-gradient with respect to the subject land.			
City of Ottawa Historical Land Use Inventory (HLUI)			
A request for information from the Historical Land Use Inventory was not submitted to the City of Ottawa. The information collected through reviews of past reports was considered to provide a significant historical background of the study area.			
EcoLog ERIS Report			
An EcoLog ERIS Report was obtained for 12 Hamilton Avenue North, the adjacent property to the north, as part of the Phase I ESA completed by Golder (2016). Based on the findings of the ERIS, which was completed for a 250m radius, there are no records for the Phase I Property. Potentially contaminating activities identified within the Phase I Study Area include the following:			
 1195 Wellington Street – Marquardt Printing (former commercial printers); 3 Hamliton Avenue – Honeywell Ltd. (aerospace and electronic products and parts manufacturing; 1233 Wellington Street – former dry cleaners; 390 Parkdale Avenue – retail fuel outlet; 			
□ 1175 Wellington Street West – former retail fuel outlet: and			

The aforementioned PCAs have been previously discussed and are not considered to represent APECs on the Phase I Property based on their respective separation distances and/or orientations with respect to the subject land.

☐ 1186 Wellington Street – former retail fuel outlet.



4.3 Physical Setting Sources

Aerial Photographs

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

The Phase I Property appears to be occupied by two commercial or industrial building structures. Adjacent lands to the north and west are occupied by residential dwellings. Hamilton Avenue North is present to the east followed by vacant, undeveloped land. The adjacent land to the south is also vacant and undeveloped. Apparent commercial or industrial properties are present further to the north and southeast of the Phase I Property.

1944 (Poor Quality) No apparent changes have been made to the Phase I Property since the previous photograph. Possible commercial development has occurred further south of the Phase I Property, on the north side of Wellington Street. The property to the southeast, across Hamilton Avenue North appears to have been redeveloped for commercial or residential purposes. No other significant changes appear to have been made to the neighbouring properties.

The Phase I Property appears to remain unchanged from the previous photograph. A building structure, possibly commercial or industrial in nature, is present two properties to the south of the subject land. Some apparent activity is present on the northern portion of the vacant land adjacent to the east, across Hamilton Avenue North. No other apparent changes have been made to the neighbouring properties, since the previous photograph.

(City of Ottawa) The Phase I Property remains unchanged from the previous photograph. A small building has been developed on the northern portion of the adjacent property to the east, across Hamilton Avenue North.

The building on the northern portion of the Phase I Property appears to have been demolished and the land paved. No changes appear to have been made to the southern portion of the subject land. The previously vacant land to the east appears to have been developed for recreational purposes.

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1958

1965



1986	No significant changes appear to have been made to the subject land or the neighbouring properties.
1995	The Phase I Property and neighbouring lands remain unchanged from the previous photograph.
2005	(City of Ottawa Website) The Phase I Property and surrounding lands appear to remain unchanged from the previous photo. The retail fuel outlet at 390 Parkdale Avenue, further east of the subject land, can be clearly seen in this photograph.
2015	(City of Ottawa Website) The Phase I Property and surrounding lands appear to remain unchanged from the previous photo.

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 maps indicate that the regional topography in the general area of the site slopes downward towards the north. Based on the topography, the inferred groundwater flow direction in the area of the Phase I Property is to the north, towards the Ottawa River. The Ottawa River is the closest significant water body at an approximate distance of 1.3km north of the subject land. An illustration of the referenced topographic map is presented on Figure 2 – Topographic Map, appended to this report.

Physiographic Maps

A Physiographic Map was reviewed from the Natural Resources Canada – The Atlas of Canada website. According to this physiographic map, the site is located in the St. Lawrence Lowlands. According to the mapping description provided: "The lowlands are plain-like areas that were all affected by the Pleistocene glaciations and are therefore covered by surficial deposits and other features associated with the ice sheets." The subject site is located in the Central St. Lawrence Lowland, which is generally less than 150 m above sea level.



Geological Maps

The Geological Survey of Canada website on the Urban Geology of the National Capital Area were consulted as part of this assessment. Based on this information, bedrock in the area of the site consists of interbedded limestone and dolostone of the Gull River Formation. Based on the maps, the thickness of overburden ranges from 3 to 5 m. Overburden reportedly consists of glacial till deposits.

Based on the findings of a subsurface investigation conducted by Paterson in conjunction with the Phase I ESA, the soil stratigraphy beneath the Phase I Property generally consists of fill material over brown silty clay followed by glacial till. Fill material consisted of a pavement structure over brown clayey topsoil or silty sand with traces of slag, cinders or demolition debris at several borehole locations. Practical refusal on inferred bedrock was encountered at depths ranging from approximately 5.0 to 5.8m below grade.

Water Well Records

Five (5) monitoring wells were present on the Phase I Property at the time of the site assessment. Based on a search of the MECP well records mapping site, 48 water well records were identified within a 250m radius of the Phase I Property. All of the wells were drilled between 2007 and 2016. Based on the availability of municipal water, it is assumed that these wells are for groundwater monitoring purposes. The majority of these wells are clustered around an existing retail fuel outlet approximately 55m to the east and a former industrial facility approximately 55m to the north of the subject site. Based on the cross and/or downgradient locations of the monitoring wells, they are not considered to represent an area of environmental concern on the Phase I Property.

Water Bodies and Areas of Natural Significance

No creeks, rivers, streams, lakes or any other water body were identified within Phase I Study Area. The Ottawa River, which is approximately 1.3km north of the Phase I Property, is the closest water body. No areas of natural significance are known to exist within the Phase I Study Area.



5.0 INTERVIEWS

Property Owner Representative

Mr. Michael Martin, with Surface Developments, was interviewed as part of this assessment. Mr. Martin is unware of any potential environmental concerns regarding the Phase I Property or the surrounding lands, other than those previously discussed.

6.0 SITE RECONNAISSANCE

6.1 General Requirements

The site assessment was conducted on September 7, 2018 between 1:00 and 2:00 PM, by personnel from the Environmental Department of Paterson Group. Weather conditions consisted of a mix of sun and cloud with a temperature of approximately 15°C. The uses of neighbouring properties within the Phase I Study Area were also assessed at the time of the site visit.

6.2 Specific Observations at Phase I Property

Buildings and Structures

A 1-storey slab-on-grade commercial building is present on the portion of the Phase I Property addressed 20 Hamilton Avenue. The building is considered to be the original building constructed circa 1921 and is heated with natural-gas fired equipment situated on the roof-top. The portion of the Phase I Property addressed 16 Hamilton Avenue North, is occupied by a paved parking lot. No other buildings or structures are present on the Phase I Property.

Subsurface Structures and Utilities

No subsurface structures are present on the Phase I Property. The Phase I Property is situated in a municipally serviced area. Underground utility services on the Phase I Property include natural gas, water and sewer services which enter the site off of Hamilton Avenue North. Based on standard practice for subsurface utility installation, service trenches are expected to be present approximately 1 to 2 m below existing grade. In general, trench backfill may provide a preferential pathway for contaminant transport if the water table is at or above the base of the trenches.



Site Features

The southern portion of the Phase I Property is occupied by the subject structure. The remainder of the site is paved with some vegetation along the western property line. The site is relatively flat with a slight downward slope towards Hamilton Avenue North; site drainage consists primarily of sheet drainage towards catch basins on Hamilton Avenue North.

Interior Assessment

Α(general description of the interior of the subject building is as follows:
	Floor finishes consist of carpet or ceramic tile;
	Wall finishes consist of brick or drywall;
	Ceilings are finished with acoustic ceiling tiles; and
	Lighting is provided by incandescent or fluorescent fixtures.

Storage Tanks

No underground or aboveground storage tanks were noted on the interior or exterior of the Phase I Property.

Heating/Cooling System

The building is heated with natural gas-fired heating, ventilation and air conditioning equipment located on the rooftop.

Drains, Pits and Sumps

No drains, pits or sumps were observed at the time of the site visit.

Unidentified Substances

There were no unidentified substances on the interior or exterior of the Phase I Property at the time of this assessment.

Sewage Works

The site is connected to the City of Ottawa sanitary sewer system. Given the urban setting, no private sewage systems are suspected to exist on the Phase I Property or within the Phase I Study Area.



Waste Storage and Disposal

Domestic waste and recycling is collected on a regular basis by the City of Ottawa.

Railway Lines

There are no rail yards, tracks or spurs on the Phase I Property.

Ozone Depleting Substances (ODSs)

No significant potential sources of ODSs were observed on site at the time of the site inspection.

Building Material Assessment

Possible asbestos-containing materials observed during the site include drywall joint compound and acoustic ceiling tiles. These materials were observed to be in fair to good condition at the time of the visit.

Based on the age of the building, lead based paint may be present beneath more recent coats of paint, on any original surfaces. Painted surfaces were generally in good condition at the time of the site visit.

Urea Formaldehyde Foam Insulation (UFFI) was not identified during the site visit. It should be noted that the wall cavities were not inspected for insulation type.

Fill Material

As previously discussed, based on the findings of a concurrent subsurface investigation, fill material is present across the Phase I Property. Fill material consists of brown clayey topsoil or silty sand with traces of slag, cinders or demolition debris at several borehole locations.

Neighbouring Properties

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

□ North - Under construction;



South -	Commercial office followed by automotive service garage;
East -	Hamilton Avenue North followed by Parkdale Park; and
West -	Residential followed by Hinton Avenue.

The current uses of the immediately adjacent properties are not considered to pose an environmental concern to the subject site. The automotive service garage at 24 Hamilton Avenue North, situated approximately 10m south of the Phase I Property, is considered to represent an APEC on the subject land.

Remaining properties within the Phase I Study Area consist primarily of residential and commercial properties with occasional institutional properties. Surrounding land use is shown on Drawing PE4341-5 – Surrounding Land Use Plan in the Figures section of this report.

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				
Time Period	Land Use	Potentially Contaminating Activities	Area of Potential Environmental Concern	
Prior to 1921	Vacant, undeveloped land	None	No	
1921-1982	Industrial	PCA 34	Yes	
1982 to present	Commercial office	None	No	

Potentially Contaminating Activities (PCAs) and Areas of Potential Environmental Concern

Poor quality fill material was identified on the Phase I Property during a concurrent Phase II ESA. The fill material is considered to have resulted in an APEC on the Phase I Property. The industrial nature of the historical uses of the Phase I Property are also considered to have resulted in APECs on the subject land.



An off-site PCA is also considered to have resulted in an APEC on the Phase I Property. The PCAs and resulting APECs are presented in Table 2 and are outlined on Drawing PE4341-4 – Site Plan.

Table 2					
Areas of Potential Environmental Concern					
Area of Potential Environmental Concern	Location of Area of Potential Environmental Concern with respect to Phase I Property	Potentially Contaminating Activity	Location of PCA (on-site or off- site)	Contaminants of Potential Concern	Media Potentially Impacted (Groundwater, Soil, and/or Sediment)
APEC 1 (resulting from former foundry)	Northern portion of the Phase I Property (16 Hamilton Avenue North)	Item 34 - Metal Fabrication	On-site	PAHs Metals	Soil and Groundwater
APEC 2 (resulting from former machine shop)	Southern portion of the Phase I Property (20 Hamilton Avenue North)	Item 34 - Metal Fabrication	On-site	BTEX PHCs (F ₁ -F ₄) Metals	Soil, Groundwater
APEC 3 (resulting from automotive service garage)	Southern portion of the Phase I Property (20 Hamilton Avenue North)	Item 52 – Storage, maintenance, fuelling and repair of equipment, vehicles, and material used to maintain transportation systems	Off-site	BTEX PHCs (F ₁ -F ₄)	Soil, Groundwater
APEC 4 (resulting from imported fill material)	Potentially across the Phase I Property (16 and 20 Hamilton Avenue North)	Item 30 – Importation of Fill Material of Unknown Quality	On-site	Metals PAHs	Soil, Groundwater

7.2 Conceptual Site Model

Geological and Hydrogeological Setting

The Geological Survey of Canada website on the Urban Geology of the National Capital Area were consulted as part of this assessment. Based on this information, bedrock in the area of the site consists of interbedded limestone and dolostone of the Gull River Formation. Based on the maps, the thickness of overburden ranges from 3 to 5 m. Overburden consists of glacial till deposits.



Contaminants of Potential Concern

Based on the areas of potential environmental concern on the subject site, the following Contaminants of Potential Concern (CPCs) on the Phase I Property include:

Polynuclear aromatic hydrocarbons (PAHs);
Metals;
Benzene, toluene, ethylbenzene and xylene (BTEX); and
Petroleum hydrocarbons (PHCs, fractions F1-F4).

Buildings and Structures

The subject site is occupied by a single storey wood framed commercial building located on the southern portion of the subject site. The building is currently used for office purposes. The building is heated and cooled using a natural gas fired rooftop HVAC system.

Water Bodies

No creeks, rivers, streams, lakes or any other water body was identified in a 250m radius. The majority of the study area consists of residential dwellings, commercial businesses, and roads. The Ottawa River is the closest significant water body and is located approximately 1.3km north of the subject site.

Areas of Natural Significance

A search for areas of natural significance and features within a 250m radius study area was conducted on the Ontario Ministry of Natural Resources (MNR) website and the search did not reveal any areas of natural significance within a 250m radius.

Water Well Records

Five (5) monitoring wells were present on the Phase I Property at the time of the site assessment. Based on a search of the MECP well records mapping site, 48 water well records were identified within a 250m radius of the Phase I Property.



All of the reported wells were drilled between 2007 and 2016. Based on the availability of municipal water, it is assumed that these wells are for groundwater monitoring purposes. The majority of these wells are clustered around an existing retail fuel outlet approximately 55m to the east and a former industrial facility approximately 55m to the north of the subject site. Based on the cross and/or downgradient locations of the monitoring wells in relation to the subject land, they are not considered to represent an area of environmental concern on the Phase I Property.

Neighbouring Land Use

Neighbouring land use in a 250m radius is primarily residential and commercial with a City of Ottawa park located directly to the east of the subject site.

Potentially Contaminating Activities and Areas of Potential Environmental Concern

The Areas of Potential Environmental Concern (APEC) identified in the Phase I ESA study area are summarized in Section 7.1 of this report. Other potentially contaminating activities (PCAs) within a 250m radius are not considered to pose an environmental concern to the Phase I ESA Property due to their separation distance and/or location downgradient or cross-gradient of the Phase I ESA property.

Assessment of Uncertainty and/or Absence of Information

The information available for review as part of the preparation of this Phase I ESA is considered to be sufficient to conclude that there are areas of potential environmental concern on the subject site. The presence of potentially contaminating activities 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

Paterson Group was retained by Surface Developments to conduct a Phase I Environmental Site Assessment (ESA) of the property addressed 16 and 20 Hamilton Avenue North, in the City of Ottawa, Ontario. The purpose of this Phase I ESA was to research the past and current use of the site and study area and to identify any environmental concerns with the potential to have impacted the subject property.

According to the historical research, the property was occupied by a machine shop (20 Hamilton Avenue North) and foundry (16 Hamilton Avenue North) from circa 1921 through 1956 and 1961 respectively. The portion of the Phase I Property addressed 16 Hamilton Avenue may have been used as a residential dwelling, based on City Directory listings, prior to its demolition at some time between 1965 and 1976. The building addressed 20 Hamilton Avenue North subsequently housed various establishments of an industrial or light industrial nature, until utilized as office space circa 1982. The industrial nature of the original uses of the Phase I Property is considered to have resulted in areas of potential concern (APECs) on the subject land.

The surrounding properties within the Phase I Study Area were historically used primarily for residential purposes, with occasional commercial or industrial properties. An automotive service garage present at 24 Hamilton Avenue, approximately 10m south of the Phase I Property, is a historical potentially contaminating activity (PCA) considered to result in an APEC on the subject land. Other off-site historical PCAs within the Phase I Study Area are not considered to represent APECs on the subject land based on their separation distances and orientations cross or downgradient with respect to the Phase I Property.

Following the historical research, Paterson conducted a site visit and a visual assessment of the properties within the Phase I Study Area. The Phase I Property is currently occupied by a commercial office building and paved parking lot. No PCAs were identified on the Phase I Property at the time of the site visit. Based on the findings of the subsurface investigation carried out for the property, fill material is present on site. The fill material is considered to represent an APEC on the Phase I Property.



Neighbouring properties are primarily residential with some commercial offices and institutional or community buildings and parkland. PCAs identified within the study area at the time of the site visit include the aforementioned automotive service garage at 24 Hamilton Avenue North, as well as a retail fuel outlet at 390 Parkdale Avenue. The automotive service garage is considered to represent an APEC on the Phase I Property based on its proximity and up-gradient orientation with respect to the site. The retail fuel outlet at 390 Parkdale Avenue is not considered to represent an APEC on the Phase I Property based on its separation distance of approximately 60m and its cross-gradient orientation with respect to the subject land.

Conclusion

Based on the results of the Phase I ESA, in our opinion, a Phase II Environmental Site Assessment is required for the Phase I Property. A Phase II ESA has been completed. The findings of the subsurface investigation are provided under separate cover.



9.0 STATEMENT OF LIMITATIONS

This Phase I - Environmental Site Assessment report has been prepared in general accordance with the agreed scope-of-work, in compliance 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 Surface Developments. Permission and notification from Surface Developments and Paterson will be required to release this report to any other party.

ROFESSIONA

Paterson Group Inc.

Karyn Munch, P.Eng., QPESA

Kaup Munch:

Mark S. D'Arcy, P.Eng., QPESA

Report Distribution:

☐ Surface Developments

Paterson Group



10.0 REFERENCES

Federal Records

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

National Archives.

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

Natural Resources Canada – The Atlas of Canada.

Environment Canada, National Pollutant Release Inventory.

PCB Waste Storage Site Inventory.

Provincial Records

MECP Freedom of Information and Privacy Office.

MECP Municipal Coal Gasification Plant Site Inventory, 1991.

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

MECP Brownfields Environmental Site Registry.

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

MNR Areas of Natural Significance.

MECP Water Well Inventory.

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

Municipal Records

City of Ottawa Document "Old Landfill Management Strategy, Phase I-Identification of Sites.", prepared by Golder Associates, 2004.

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

The City of Ottawa eMap website.

Local Information Sources

Topographic Plan of Survey, Farley, Smith & Denis Surveying Ltd., July, 2016. Golder Associates Phase I ESA for 12 Hamilton Avenue North (2016) Pinchin Environmental Phase I ESA for 84-90 Hinton Avenue North (2014) Personal Interviews.

Public Information Sources

Google Earth.

Google Maps/Street View.

FIGURES

FIGURE 1 – KEY PLAN

FIGURE 2 – TOPOGRAPHIC MAP

DRAWING PE4341-4 – SITE PLAN

DRAWING PE4341-5- SURROUNDING LAND USE PLAN

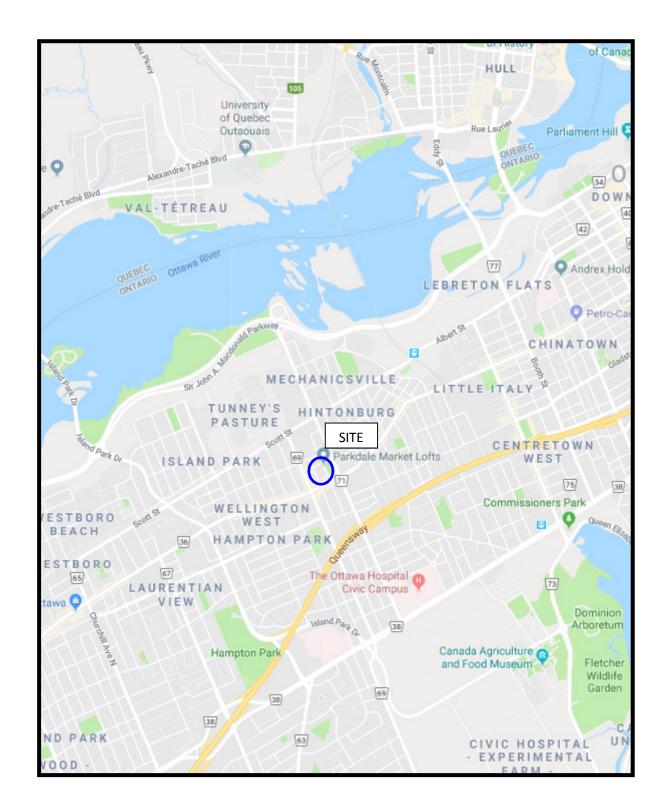


FIGURE 1
KEY PLAN

patersongroup

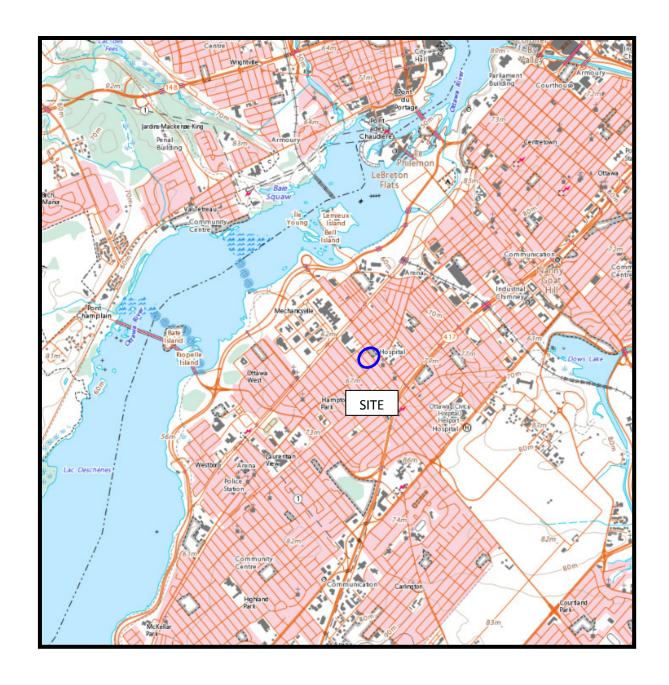
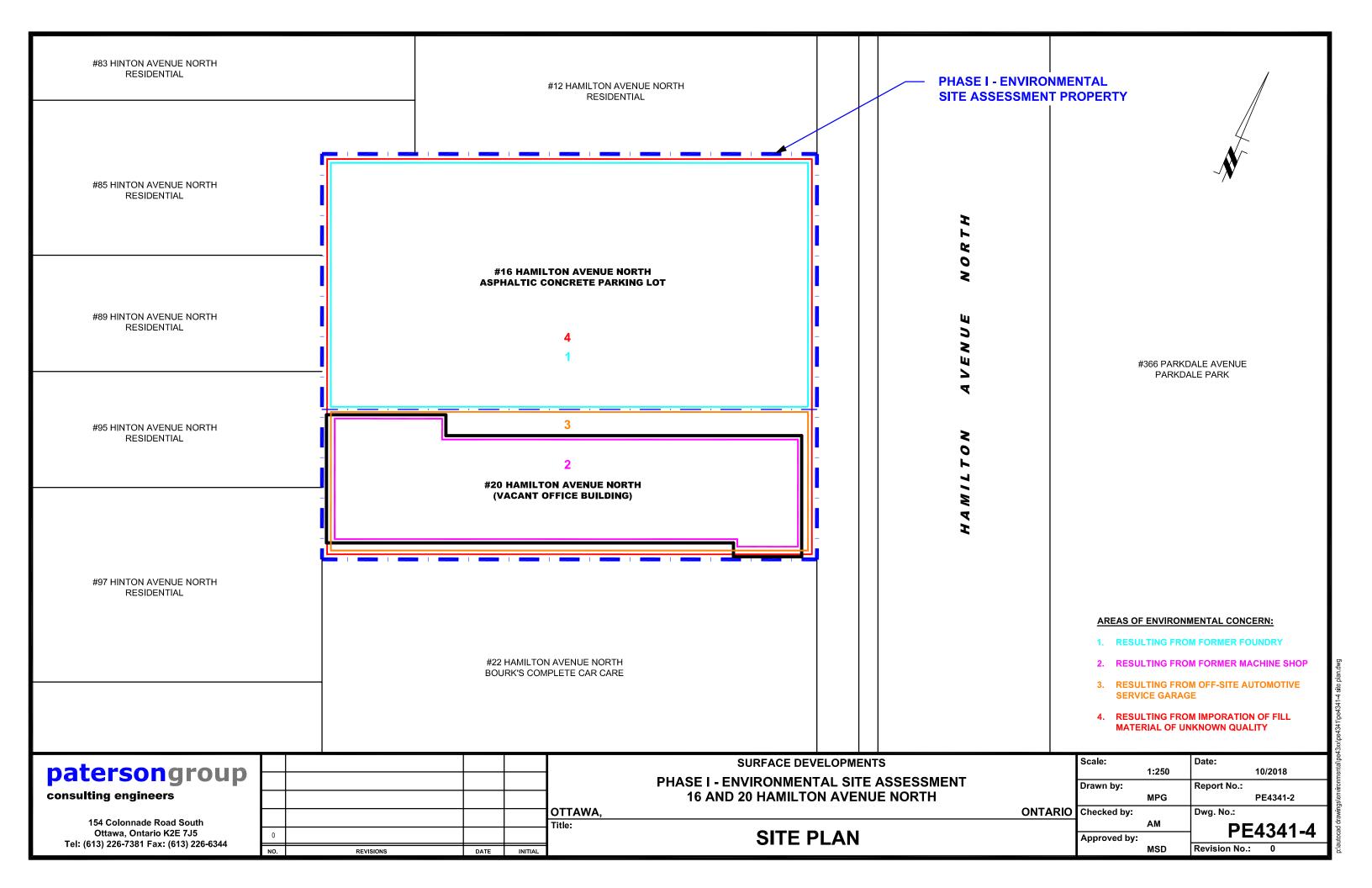
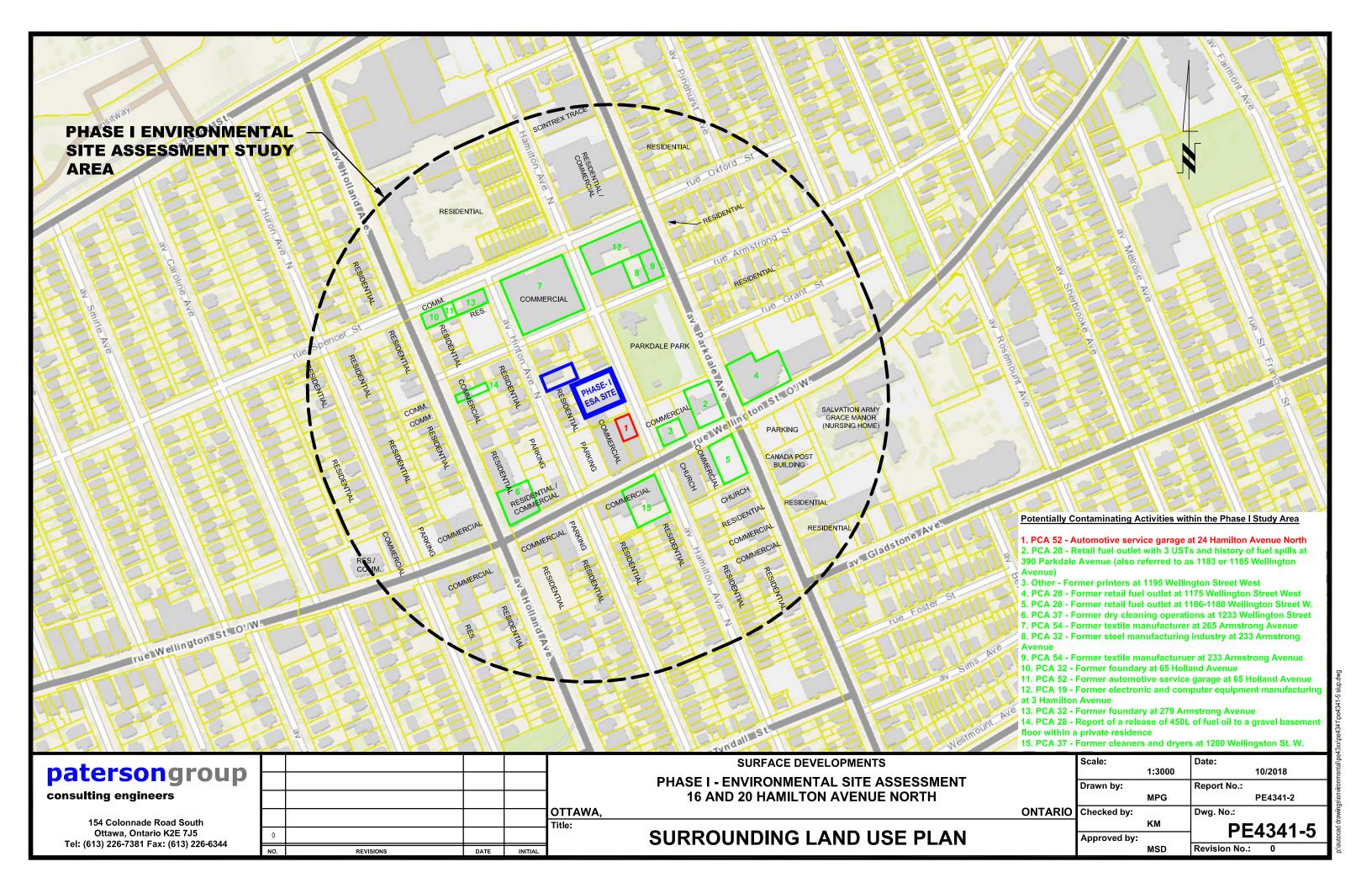


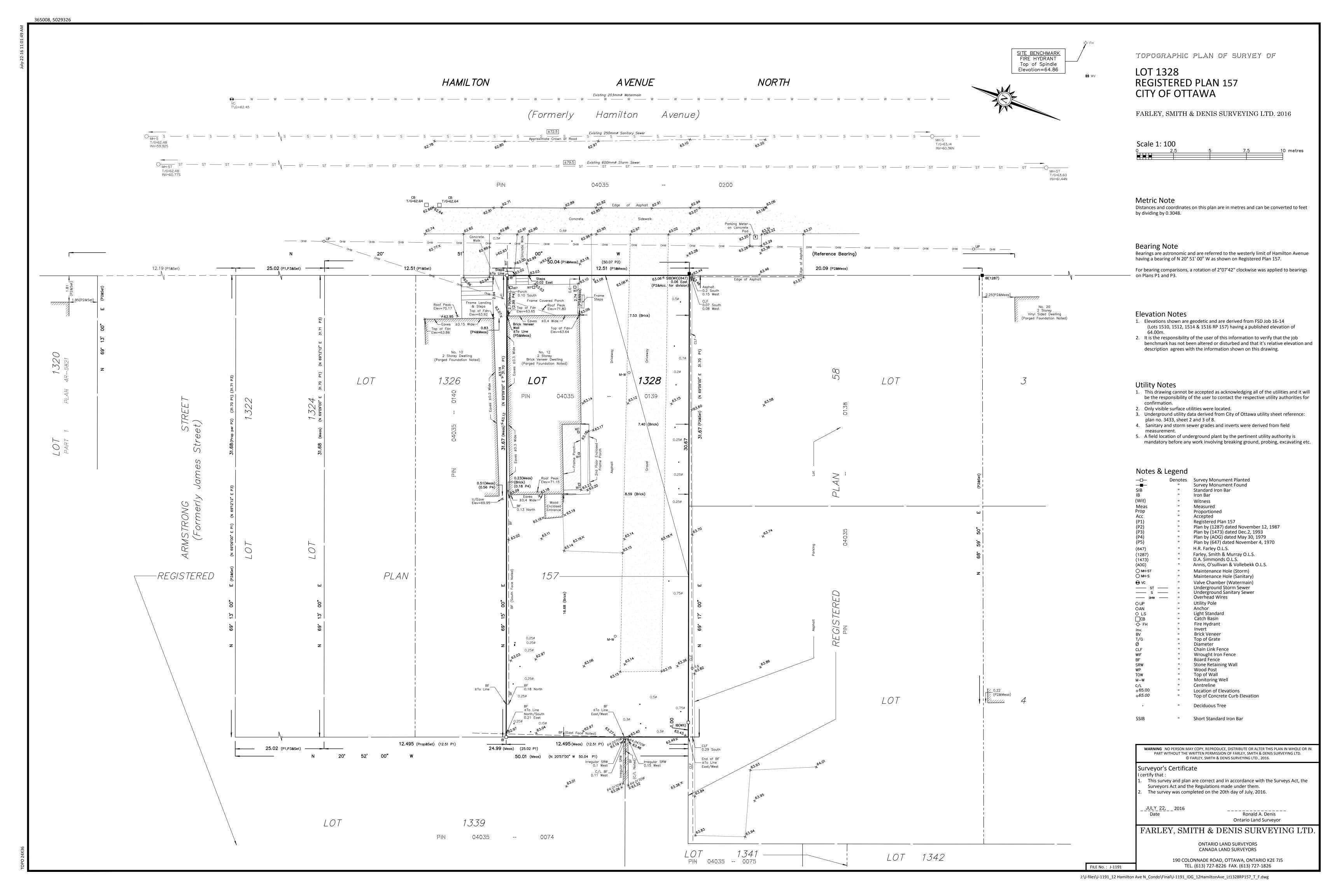
FIGURE 2 TOPOGRAPHIC MAP





APPENDIX 1

TOPOGRAPHIC PLAN OF SURVEY
AERIAL PHOTOGRAPHS



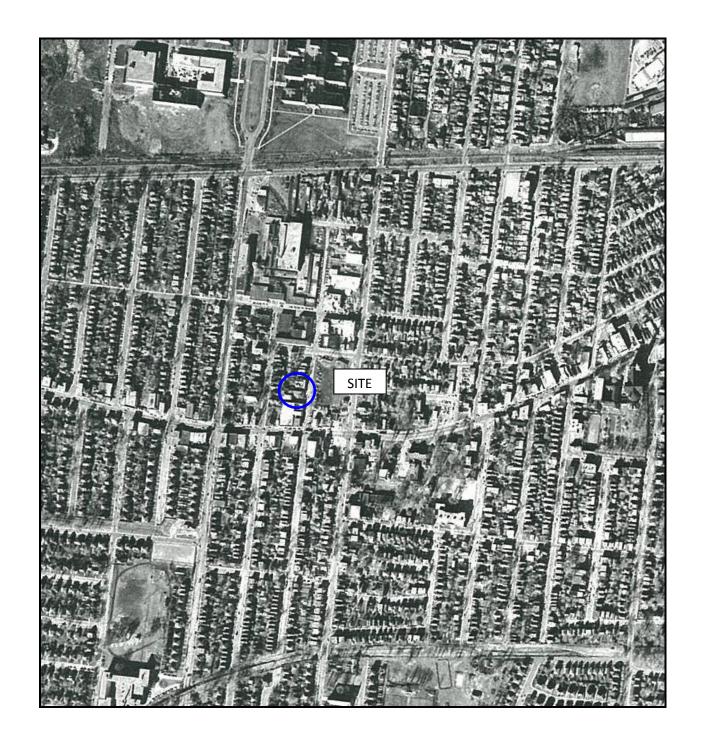


AERIAL PHOTOGRAPH 1928

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AERIAL PHOTOGRAPH 1944

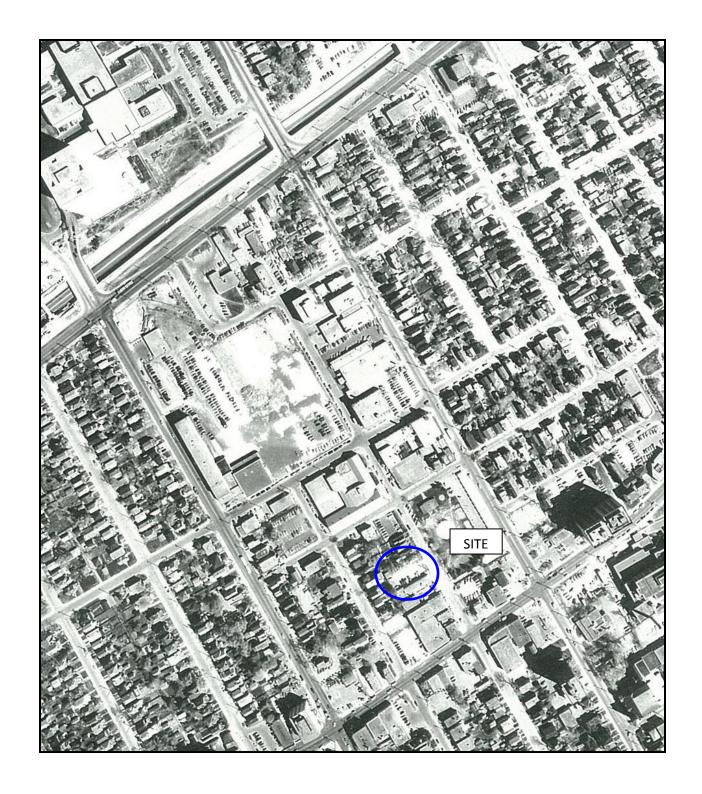


AERIAL PHOTOGRAPH 1958

patersongroup



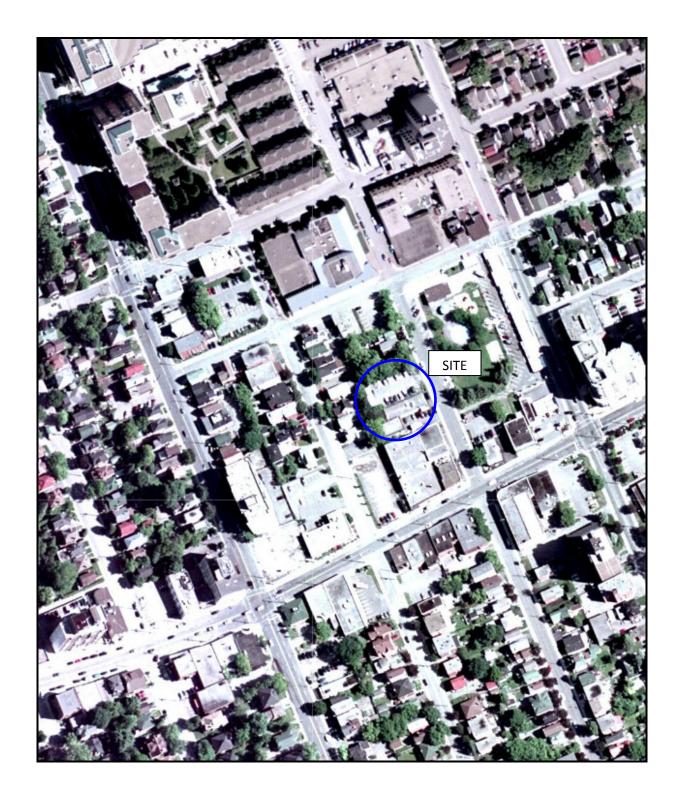
AERIAL PHOTOGRAPH 1976



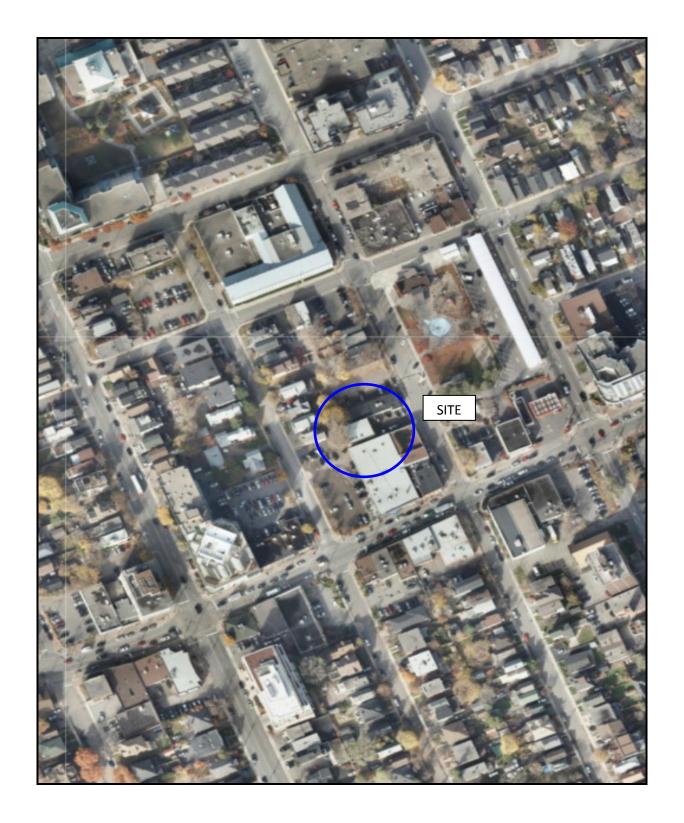
AERIAL PHOTOGRAPH 1986



AERIAL PHOTOGRAPH 1995



AERIAL PHOTOGRAPH 2005



AERIAL PHOTOGRAPH 2015

APPENDIX 2

MECP FREEDOM OF INFORMATION SEARCH
TSSA CORRESPONDENCE
MECP WELL RECORDS



Freedom of Information Request

This form is for requesting documents which are in the Ministry's files on environmental concerns related to properties. Please refer to the guide on completion and use of this form. Our fax no. is (416) 314-4285.

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	Requester Data		For Ministry Use Only									
Name, Company Name, Mailing Address and			FOI Request No.	Date Request Received								
Karyn Munch			i Oi Nequest No.									
Paterson Group Inc. 154 Colonnade Road			Fee Paid									
Ottawa, ON K2E 7J5			□ ACCT □ CHQ □ VISA/MC □ CASH									
Email address: kmunch@pa	tersongroup.ca			VIOTVINO - OTOTI								
Telephone/Fax Nos.	Your Project/Reference No.	Signature/Print /Name of Requester	☐ CNR ☐ ER ☐ NO	DR □ SWR □ WCR								
Tel. 613-226-7381 Fax 613-226-6344	PE4341	Karyn Munch	□ SAC □ IEB □ EA									
Request Parameters												
Municipal Address / Lot Concession Geogra	phic Township (Municipal add	ress essential for cities, towns or regions)										
16 and 20 Hamilton Avenue												
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Files older than 2 years may requir		rch Parameters ere is no guarantee that records responsive	e to your request will be located.	Specify Year(s) Requested								
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Spills				all								
Investigations/prosecutions	➤ Owner AND tena	nt information must be provided		all								
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A \$5.00 non-refundable application fee, payable to the Minister of Finance, is mandatory. The cost of locating on-site and/or preparing any record is \$30.00/hour and 20 cents/page for photocopying and you will be contacted for approval for fees in excess of \$30.00.

0026 (05/02) Page 1 of 1

Karyn Munch

From: Karyn Munch

Sent:October-25-18 11:42 AMTo:Public Information ServicesSubject:PE4341 - Records Search Request

Good morning,

Could you please search for your files for the following addresses in the City of Ottawa:

12, 16, 20, 22, 24 Hamilton Avenue North 366 Parkdale Avenue 1205 Wellington Street West 89, 95, 97 Hinton Avenue

Thank-you very much.

Best Regards,

Karyn Munch, P.Eng.

patersongroup

solution oriented engineering

154 Colonnade Road South Ottawa, Ontario, K2E 7J5 Tel: (613) 226-7381 Ext. 217

Fax: (613) 226-6344

Email: kmunch@patersongroup.ca

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☐ Observation w ☐ Test Hole		, insufficient sup , poor quality	pply X Dewatering Replacemer	nt well		package deliver	1	A L		er er er
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Name of Well Tec	hnician (last name,	first name)		ell Technician's I		Remarks		II Record N	umber	
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m!	Fresh Sulphur		Steel Fibreglass Plastic Concrete				Recommended pump type. Shallow Deep Recommended pump	5	5	
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Other: ter test of well	yield, water was	diam	Plastic Concrete		_		If flowing give rate - (litres/min)	20 25	20	
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 For use in the Province of All Sections must be come. Questions regarding come. All metre measurement. 	of Ontario only. This docurnpleted in full to avoid delay pleting this application cans shall be reported to 1/1	ys in processir be directed to	ng. Further i the Water	nstructions an	d explanations are ava	ailable 416-2	on the bad 35-6203.	ck of	this form.
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Water found / Kind of Water	Steel Fibreglas	1			hrs + min Final water level end	3		3	4
See page Fresh Sulphur Gas Salty Minerals Other:	Plastic Concrete Galvanized				of pumpingmetres Recommended pump				
m Fresh Sulphur	Steel Fibreglas	1			type. Shallow Deep	4		4	
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Chlorinated ☐ Yes 🛣 No	Open hole		2.5	6.1		60		60	1 1000
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☐ Test Hole ☐ Abandoned, p		ent well		package delivere					
Well Cont Name of Well Contractor	ractor/Technician Informat	ion Vell Contractor's L	icence No.	Data Source	Ministry Use Cor	Only tractor			- V V
Bernard Marquardt & Business Address (street name, number	Son Ltd . er, city etc.)	3651		Date Received	QYYWW DD Date	e of Inst	pection yy	l ry	MM DD
18 Crescent Dr., RR	#1. Palmer Rapids	ON KOJ	2E0	MAN L	3 1001			1	V
Name of Well Technician (last name, fil	rst name)	Vell Technician's L		Remarks	1/1/0	Recor	d Number		1,183,141,41
Name of Well Technician (last name, file Marchardt, Brad Signature of Technician Company for	rst name) V		icence No.	Remarks	We	l Recor	d Number		

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WELL #8 page <u>1</u> of <u>1</u>

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0	All Sections must be completed in full to avoid delays in processing. Further instructions and explanations are available on the back of this form

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Clear and sec		ee		Galvanized					If pumping discontinued, give reason.	30		30	
Other, specify	/				No Casi	ing or Scr	een			40		40	
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	Well	Record
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page <u>1</u> of <u>1</u>

WELL #9 **Instructions for Completing Form**

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0	For use in the Province of Ontario only. The	nis document is a permanent legal document. Please retain for future reference.
0	All Sections must be completed in full to av	oid delays in processing. Further instructions and explanations are available on the back of this form

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Regulation 903 Ontario Water Resources Act WELL #10 page <u>1</u> of <u>1</u>

Instructions for Completing Form

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Well Record
Regulation 903 Ontario Water Resources Act

WELL #11 page <u>1</u> of <u>1</u>

Instructions for Completing Form A054050 • For use in the **Province of Ontario** only. This document is a permanent **legal** document. Please retain for future reference.

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18 Cresce	chnician	(last nam	e, fir	st name)	пот парта	Well Ted	chnician's	Licence No.	Remarks			Wel	Record	l Number		
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Well Tag ⊨	A, 0540	r below)
	A054052	

	Well	Record
Regulation 903 Ontario	Water R	esources Act

WELL #13 page <u>1</u> of <u>1</u>

nstructions for Completing Form	A054052

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0	All Sections must be completed in full to avoid delays in processing. Further instructions and explanations are available on the back of this form

Que	estion	is reg	arding con	npleting th	tull to avoid de his application of reported to 1	can be dire	cted to	the Wa	instructions ar ter Well Help I	nd explanations are av Desk (Toll Free) at	ailable 1-888	e on the ba 3-396-935	ack of	f this form.
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			tion (County)	/District/Mu	ınicipality)			nship		Lot		Conce	ession	1
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3 Ham GPS Rea			ve. Nor		na ·	Northing	Ur	nit Make/N	Model Mod	e of Operation: Und	differen	inted 5	Aver	ragod
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General C	1		en and be		aterials (see i	nstruction r Materials	15)		Gener	al Description		Der	oth	Metres
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brown grev			gravel limest	one	sand							1	0 .2	1.2 6.1
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		******												
		***************************************												
H	lole D	iame	ter		C	onstruction	Record	<u></u>		Tes	st of V	/ell Yield		
Depth		etres	Diameter	Inside		Wall	ı	Depth	Metres	Pumping test method	Dra	aw Down		Recovery
From	1	Го	Centimetres	diam centimetres	Material	thickne centime		From	То	-	Time min	Water Level Metres	Time min	Water Leve Metres
0	2.		25.4			Casing				Pump intake set at - (metres)	Static Level			
2.1	6.	<u>. L</u>	15.2	1	Steel Fibreg					Pumping rate - (litres/min)	1		1	
		Reco	rd	15.9	Plastic Concre	•te .48	'	0	2.1	Duration of pumping	2		2	
Water foun at Metr			of Water		Steel Fibregl	ass				hrs + min				
Seepa	ge F		Sulphur Minerals		Plastic Concre	ete				of pumping metres	_3		3	
Other:					Steel Fibregl	ass				Recommended pump	4		4	
Gas m		Fresh Salty	Sulphur Minerals		Plastic Concre	ete				Shallow Deep Recommended pump	5		5	
Other:	inia	· · ·	Sulphur		Galvanized	Scree				depthmetres Recommended pump	10		10	
Gas			Minerals	Outside	Steel Fibregi					rate. (litres/min)	10 15		10	
Other:		yield, v	vater was	diam	Plastic Concre	-				If flowing give rate - (litres/min)	20 25		20 25	
Clear a	nd sec	diment t	1		Galvanized					If pumping discontinued, give reason.	30		30	
Other,					***	o Casing or	Screer			aca, give reacon.	40 50		40 50	
Chlorinated	d 🗌 Y	es	No		Open hole			2.1	6.1		60		60	
Donth out o			ing and Sea			nular space		donment		Location of				
Depth set a	To		aterial and type	e (bentonite s	lurry, neat cement sl	urry) etc.	Volume F (cubic m		In diagram below Indicate north by			d, lot line, a	and bu	ilding.
0	2.1		Holeplu	ng	THE PROPERTY OF THE PROPERTY O				***************************************	Spencer 57	•		entarettelitärilekelentet	and a management
10.710.000.000									ż					
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Cable To	ool		Me ⊠Rotary (a		Construction Diamond	4		gging	Howinste					12
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Rotary (r	everse	<del>)</del>	Boring	Wate	☐ Driving r Use					<u>Armetrong</u>	<u>. K</u>		-	
Domesti	C		Industrial	-	Public S		X Ot	her.		-				1 '
Stock Irrigation			Commerc Municipa		☐ Not used ☐ Cooling	d & air conditioni		CHOIL	Audit No.	CAOOC Date	e Well	Completed		
Water S	upply	<u></u>	Recharge wel	Final Stat	us of Well Unfinishe			el (Otto es)		64906 Dat	e Delive	200		MM 15D
Observa	tion we	ell 🔲	Abandoned, ir	nsufficient su	pply 👿 Dewater	ing	Januoneo	d, (Other)	Was the well ow package delivere	not o information	e Delive	sieu yy	/YY 	MM DD
Test Ho	ie		Abandoned, p Well Contr		Replacei Replacei	ment well ation				Ministry Use				
Name of We			uardt &	Son T+	đ	Well Contract 36		nce No.	Data Source	Cor	ntractor	RK	1	
Business Ad	dress	(street	name, numbe	r, city etc.)					Date Richived	GYZWW MM DD Date	e of Ins	pection YY	/YY	MM DD
				₹ <b>⊥,</b> Pali st name)	mer R <b>pp</b> ids			iU nce No.	Remarks		I Reco	rd Number	L	
Margua	ardt	. B	cad /			T-2	781			110			-	

Well Tag	Д	054053	er below)
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Well Record Regulation 903 Ontario Water Resources Act

WELL #14

page 1 of 1

Ins	tructions for Completing Form	A054053	WELL #14
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0	All Sections <b>must</b> be completed in full to avoid delays in processing. Further instructions and explanations are available on the back of this form

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0	All Sections must be completed in full to avoid delays in processing	g. Furti	her	instruct	tions and	expla	nations a	are ava	ilable on	the ba	ck of thi	s form.
0	Questions regarding completing this application can be directed to	the \	Nat	er Well	l Help De	sk (T	oll Free	e) at 1	-888-396	3-9355	5	0 1011111
0	All metre measurements shall be reported to 1/10th of a metre.							-,				
0	Please print clearly in blue or black ink only.						Minis	try Use	Only			
101		MALINI			601	4					LOT	
F												

Concession Ottawa Carleton Ottawa RR#/Street Number/Name City/Town/Village Site/Compartment/Block/Tract etc. 3 Hamilton Ave.
GPS Reading NAD North Easting  $4 \mid 4 \mid 2 \mid 8 \mid 2 \mid 7$ Zone 1 8 Unit Make/Model Northing Mode of Operation: Undifferentiated X Averaged 8 3 5|0|2|7|9|1|0 Garmin/eTrex Differentiated, specify Log of Overburden and Bedrock Materials (see instructions) General Colour Depth From Most common material Other Materials General Description brown gravel sand 0 1.5 grey limestone 1.5 6.1

1.1.	olo Diores	£						
Hole Diameter  Depth Metres Diameter								
Depth	Diameter							
From	То	Centimetres						
0	2.4	25.4						
2.4	6.1	15.2						
	ater Reco	ord						
Water found at Metre		d of Water						
Gas Other:	Salty	Sulphur Minerals						
		Sulphur Minerals						
Gas Other:	Fresh Salty	Sulphur Minerals						
After test of well yield, water was  Clear and sediment free								
Other, specify								
Chlorinated	Yes	<b>⊠</b> No						

Inside diam centimetres	Material	Wall thickness centimetres	Depth From	Metres To						
		Casing	·	***************************************						
15.9	Steel Fibreglass Plastic Concrete Galvanized	.48	0	2.4						
	Steel Fibreglass Plastic Concrete Galvanized									
	Steel Fibreglass Plastic Concrete Galvanized									
		Screen								
Outside diam	Steel Fibreglass Plastic Concrete Galvanized	Slot No.								
	No Casing or Screen									
	Open hole		2.4	6.1						

**Construction Record** 

Tes	t of V	Vell Yield		
Pumping test method	Dr	aw Down	R	ecovery
	Time min	Water Level Metres	Time min	Water Level Metres
Pump intake set at - (metres)	Static Level			
Pumping rate - (litres/min)	1		1	
Duration of pumping	2		2	
Final water level end of pumping metres	3		3	
Recommended pump type. Shallow Deep	4		4	
Recommended pump depthmetres	5	***************************************	5	
Recommended pump rate.	10		10	
(litres/min)	15		15	
If flowing give rate -	20		20	
(litres/min)	25		25	
If pumping discontin- ued, give reason.	30		30	
, g	40		40	
	50		50	
	60		60	

L		7						
	Pluç	gging and Sealing Record	🕍 Annular spa	ace Abandonment	I			
Depth set a From	t - Metres To	Material and type (bentonite slurry,	neat cement slurry) etc	Volume Placed (cubic metres)				
0	2.4	Holeplug						
	*******							
	***************************************	Method of Cons	truction					
Cable To		Rotary (air)	Diamond	Digging				
- 1	onvention		Jetting	Other				
Rotary (re	everse)	Boring	Driving					
		Water Us						
☐ Domestic	•	☐ Industrial ☐ Commercial	☐ Public Supply ☐ Not used	X Other .				
Irrigation		☐ Municipal	Cooling & air cor		ŀ			
		Final Status o	f Well		ı			
☐ Water Su		Recharge well	Unfinished	Abandoned, (Other)	١			
Observat		Abandoned, insufficient supply	Dewatering		Ĺ			
Test Hol	ie [	Abandoned, poor quality  Well Contractor/Technic	Replacement we	II.	Г			
Name of We	II Contract			ontractor's Licence No.	ŀ			
			W.C.II O.	3651				
Business Ad	dress (stre	eet name, number, city etc.)		3031	ŀ			
18 Cre	escent	Dr., RR#1, Palme an (last name, first name)	r Rapids. ON	√ KOJ 2EO				
					ı			
Marqua	Marquardt, Brad, T-2781  Signature of Technician/2904/actor  Date Submitted YYYY MM DD							
Signature of	recnnicial		Date Sub					
0506E (08/2	006)	Marquart		2007  03  22	١L			
COUL KOOIS	000)	' /		Minietrie Con	H			

	Locati	on of Well		****
In diagram below s	show distances of w	rell from road, lot	line, and b	uilding.
Indicate north by a		<i>-</i> ~1		iV
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Audit No.	1007	Date Well Comp	leted	
Audit No. Z	34907		žččo7	MM   15
Was the well owner	er's information	Date Delivered	YYYY	MM DD

Minis	stry	Use Only	
Data Source		Contractor 6 5 1	·
Pate Rechiran 2 9 2007	DD	Date of Inspection YYYY MM	DD
Remarks		Well Record Number	
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Well Ta	A 054054	iber below)
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Regulation 903 Ontario Water Resources Act

WELL #15 page  $\underline{1}$  of  $\underline{1}$ 

Instructions for Completing Form	A054054	METT #T2
Ear use in the <b>Province of Ontario</b> only. Th	is document is a permanent legal document	— Please retain for future reference

<ul> <li>All Sections in</li> </ul>	must be con	npleted in	only. This doci full to avoid dela is application c	ays in process	sing. Furthe	r instructio	ns and exp	olanations a	re ava	ailable	on the ba	ck of t	his form.
	easurement	s shall be	reported to 1/							e Only			
Well Owner's Ir				nformation	MUN		CON					LOT	
First Name	HOIMALION	Last Nam			Mailing Addre	ess (Street	Number/Na	me, RR,Lo	t,Cond	ession	)	l	
Honeywell I County/District/Mun	Limited nicipality		Township/City/1	Fown/Village		don Bak Province <b>Ontario</b>	er Road Postal Cod M2H 3N	de	Tele	phone	Number (	nclude	area code)
Address of Well Loc	ation (County	/District/Mu		7	Fownship	Ontario	MZN SI	N /	Lot		Conce	ssion	
Ottawa Carl	Leton				Ottawa			10:: //			/DL 1/T		
RR#/Street Number 3 Hamilton		~th			City/Town/	village		Site/	Jompa	artment	/Block/Tra	act etc	•
GPS Reading	NAD Zon	ne Eastir		Vorthing	Unit Make/		Mode of C	peration:		lifferentia		Avera	ged
Log of Overbur	$egin{array}{ c c c c c c c c c c c c c c c c c c c$			5:0:2:7:9:1:5 nstructions)	o Garmin	/e'l'rex			Diffe	erentiated	d, specify		
	Most common		<del></del>	Materials General Description D								oth Metres	
brown	gravel		sand		**************************************						Fro	0	1.1
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Hole Diam	eter		Co	onstruction Re	cord			***************************************	Tes	t of W	ell Yield		
Depth Metres		Inside		Wall	Depth	Meti	res Pur	mping test n	ethod		w Down		covery
From To	Centimetres	diam centimetres	Material	thickness centimetres	From	То	,			Time V min	Vater Level Metres	Time min	Water Level Metres
0 2.2	0 2.2 25.4			Casing			Pui	mp intake se etres)	t at -	Static			
2.2 6.1	2.2 6.1 15.2			ass			Pui	mping rate -		Level 1		1	
	15.9			ete .48	0	2.	2 11.	es/min) ration of pun					
	Nater Record		Galvanized					mation of puri hrs +	ıpıng min	2		2	
Water found King Metres King Metros King Metres King Metros King Metres King Metros King M			Steel Fibregl					al water leve		3		3	
Gas Salty	Salty Minerals		Plastic Concre	nte					metres				
Other:			Steel Fibregl	ass			typ	commended e. Shallow[		4		4	
	n Sulphur Minerals		Plastic Concre	ete			11	commended	pump	5		5	
Other:	· <u>·····</u> .		Galvanized	C				oth. commended	netres	10			
	Sulphur Minerals	Outside		Screen			rate			10		10 15	***************************************
Other:		diam	Steel Fibregl				If fl	owing give r		20		20	
After test of well yield			Galvanized			Ì	If p	(litres/min) If pumping discontin-		25		25 30	
Other, specify			N	o Casing or So	creen		l üec	If pumping discontinued, give reason.				40	
Chlorinated Yes	I <b>X</b> No		*Open hole		2.2	6.	1			50		50	
		<u> </u>			2.2					60		60	
	gging and Se			two and	Abandonment ume Placed		m below show			of Well		nd buil	ding
Depth set at - Metres From To	- Material and typ	e (bentonite s	siurry, neat cement si	urry) etc. (cu	bic metres)		north by arrov	W.			i, iot iiio, e	ina baii	100
0 2.2	Holep1	Lug				┦		Spence	<u></u>	<u>&gt;+-</u>	<u> </u>	-	CHICAGO CONTRACTOR CON
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Cable Tool	∑ Rotary (	(air)	Diamono	d	Digging								25
Rotary (conventional Rotary (reverse)	al) ☐ Air perd ☐ Boring	cussion	Jetting Driving	_	Other	<u> </u>	3	۸	ž.	·			
	Проний	Wate	er Use			- (		Arms	hoos	) 31	*		
☐ Domestic	Industria		Public S		X Other medication	]							
Stock Irrigation	☐ Comme ☐ Municip		☐ Not use	d & air conditioning		Audit No	·	4000	Da	te Well (	Completed		MAN DD
			tus of Well				604	<u> 4908</u>	-	o Dell	20	07	03 16
<ul><li>☐ Water Supply</li><li>☐ Observation well</li></ul>	☐ Recharge we ☐ Abandoned,		☐ Unfinish upply ဩ Dewater		ndoned, (Other)	1 1	well owner's delivered?	information ☐ Yes 🄀	1	te Delive	ieu Y	ΥΥ 	MM DD
Test Hole	Abandoned,	poor quality	Replace	ment well		1				e Only			
Name of Well Contract		tractor/Ted	chnician Informa	ation   Well Contractor's	s Licence No.	Data So	urce	WITHS		ntractor	All towards	ess.	;
Bernard Mar	rquardt 8	Son L	td.	3651					1	3	65		
Business Address (stre	eet name, numb FDr PI	er, city etc.)	lmer Ranido	s ON KO.	J 2E0	Date Red	AR 2 9 2	007 ^{MM} 1	Da	e of Insp	pection Y	/YY I	MM DD
18 Crescent	ian (last name, f	irst name)	THOE TROPICS	Well Technician	s Licence No.	Remarks			We	II Recor	d Number		
Marquardt, Signature of Technicia	ad Contractor			T-278	T	11-							
1 11/sp 1	Maria	und	Z	200	7  03  2 <u>2</u>	] [							ş.,
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Regulation 903 Ontario Water Resources Act

page  $\underline{1}$  of  $\underline{1}$ 

Instructions for	Comp	leting	Form
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Pleas	se print	clearly in blu	e or black	ink only.	<u>-</u>	NALINI		Ministry Us			LOT	
F												
Aggress of	wellLoc	cation (County	/District/Mi	unicipality)	110	ownsnip		Lot		Conce	ession	
Ottaw	a Car	leton		, y		Ottawa				Conce	20011	
RR#/Street		r/Name Ave. No	note b			City/Town/\	/illage	Site/Comp	artmer	nt/Block/Tr	act et	c.
GPS Read		NAD Zor		ng Nori	thing	Unit Make/N	Model Mo	de of Operation: Und	different	iated N	Avera	aned
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General Col				aterials (see ins	·	<u> </u>				Dep	oth	Metres
General Col	iour r	Most common	materiai	Other Ma	ateriais		Gene	eral Description		Fro		To
brown	1	gravel		sand							0	1.2
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Depth	le Diam Metres	eter Diameter		Cons	struction Rec	ord				/ell Yield		····
From	To	Centimetres	Inside diam	Material	Wall thickness	Depth	Metres	Pumping test method		aw Down Water Level		ecovery Water Leve
	2.2		centimetres		centimetres	From	То		min	Metres	min	Metres
0		25.4	1		Casing			Pump intake set at - (metres)	Static Level			
2.2	6.1	15.2		Steel Fibreglass				Pumping rate - (litres/min)	1		1	
W	ater Rec	ord	15.9	Plastic Concrete Galvanized	.48	0	2.2	Duration of pumping	2		2	
Water found at Metres		nd of Water		Steel Fibreglass				hrs + mir				
seepag	Fresh			Plastic Concrete				Final water level end of pumping	3		3	
Gas Other:	Salty	Minerals		Galvanized				Recommended pump	4		4	
				Steel Fibreglass				│ type. │ Shallow				
Gas Other:	Salty	Minerals		Plastic Concrete Galvanized				Recommended pump	5		5	
Other.	Fresh	Sulphur		Carvariized	Screen			Recommended pump	10		10	
Gas	Salty	***********	Outside	Steel Fibreglass	Slot No.			rate. (litres/min)	15	***************************************	15	
Other: _	well viold	water was	diam	Plastic Concrete				If flowing give rate -	20		20	
Clear and				Galvanized				(litres/min)  If pumping discontinued, give reason.	25 30		25 30	
Other, sp	ecify			No C	asing or Scr	een		ued, give reason.	40		40	
Chlorinated	Yes	X No		🙀 Open hole		2.2	6.1		50		50	
	51		<u> </u>						60		60	
Depth set at		ging and Sea		ord Manula Slurry, neat cement slurry		bandonment ne Placed	In diagram bel	Location of which the control of the			and hui	lding
From	10			surry, near cerneric surry	(cubi	c metres)	Indicate north	by arrow.		a, locililo, c	and buil	
0	2.2	Holepl	ug	· ····································			***************************************	<u> </u>	<b>3</b> +-	<u> </u>		
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Cable Too		X Rotary (a	,	Diamond		Digging	Hamilton					Ğ
Rotary (co		l) Air percu	ussion	☐ Jetting ☐ Driving		Other	6.7					2-order
			Wate	er Use			- Madad	<u>Armstrong</u>	St.			
☐ Domestic		☐ Industria		Public Supp	ly 🔀	Other		4,1				
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		Jpt		tus of Well			l	64909		<u>200</u>	<u> </u>	MM DD 03   16
☐ Water Sup☐ Observation	=	☐ Recharge we ☐ Abandoned, i		Unfinished  upply X Dewatering	∐ Abande	oned, (Other)	Was the well of package deliver	TTTTO O INIOTITICATOR	e Delive	ered Y	YYY	MM DD
Test Hole		Abandoned, p	oor quality	Replacemer		·						
Name of Well	Contracto		ractor/Tec	hnician Informatio	on ell Contractor's I	icence No.	Data Source	Ministry Use	Only			:
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1		et name, numbe		almor Donida	ONT TYO	1 3E/U	Date Received	YYYY MM DD Date	e of Ins	pection Y	YYY .	MM DD
			st name)	almer Rapids,  We	, ON KUL ell Technician's l	Licence No.	Remarks	9 2007     We	II Reco	rd Number		
Margu Signature of T	ardt,	Brad		Dat	T-2781							• •
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<ul><li>All Section</li><li>Question</li></ul>	in the <b>Provin</b> cions <b>must</b> be ns regarding or measurements.	con	npleted in t apleting thi	full to avoid d s application	lelays in can be	process	sing. F d to th	urther	instructi	ons and	d explanation	ns are a	availab	le on the b	ack of 55.	ithis form.		
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18 Cres	cent Dr.,	R	R#1, Pa	lmer Rapi	ids, O	N KO	J_2E	0_	MA	R'Z'9	ŽÕÕŽ i MM i	DD D	ate of In	spection Y	YYY	MM DD		
Business Address (street name, number, city etc.)  18 Crescent Dr., RR#1, Palmer Rapids, ON KOJ 2EO  Name of Well Technician (last name, first name)  Well Technician's Licence No.  T-2781  Date Received  MAN 29 2007  MM DD  Date of Inspection YYYY MM DD  Remarks  Well Record Number											1 1 1							

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Well Taç ***	A,	054058	per below)
		054050	

Well Record
Regulation 903 Ontario Water Resources Act

WELL #19 page <u>1</u> of <u>1</u>

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 All Sections **must** be completed in full to avoid delays in processing. Further instructions and explanations are available on the back of this form.

<ul><li>Question</li><li>All metro</li></ul>	ns rega r <mark>e mea</mark>	arding cor	mpleting t ts shall b	his appli <b>e report</b>	cation can	s in processi be directed th of a metre	I to the Wa		p Desk (To		1-888	-396-935		
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Name of Well Co Bernard		ליייברים	£ 502	T.+.Z	We	ell Contractor's L 3651	_icence No.	Data Source		Cor	ntracto	r. Depteration		
Business Addres	s (street	name, numb	er, city etc.)					Date Receive	d YYYY M	M DD Dat	e of Ins	pection y	ΫΥΥ	MM DD
18 Creso			K#1 <b>,</b> Pa irst name)	almer	, kapids   We		ZEU Licence No.	Remarks 2	9 2007	We	II Reco	rd Number		
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Well Record
Regulation 903 Ontario Water Resources Act

WELL #20 page <u>1</u> of <u>1</u>

Instructions	for	Completing Form	1
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<ul><li>Question</li><li>All metal</li></ul>	ons reg <b>tre me</b> a	jarding cor <b>asuremen</b>	npleting t <b>ts shall b</b>	his application car <b>e reported to 1/1</b> (	n be directe	ed to the \	ther Wa	r instructions ar ter Well Help	nd explanations are av Desk (Toll Free) at	1-888	3-396-935	ack of	f this forn
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	Metres	Diameter		Cons	struction Re				Pumping test method		Vell Yield aw Down	T	
From	То	Centimetres	Inside diam	Material	Wall thickness	Depth	n 	Metres	Pumping test method		Water Level		ecovery Water Lev
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	7.6	15.2			Casing				(metres)	Static Level			
	,	40.2		Steel Fibreglass					Pumping rate - (litres/min)	1_		1	
	er Reco	rd	15.9	Plastic Concrete	.48		0	2.6	Duration of pumping	2		2	
Water found at Metres	/ Kind	of Water		Steel Fibreglass					hrs + min	-			
seepage	5	Sulphur		Plastic Concrete					Final water level end of pumping	3_		3	
☐ Gas ☐ Other:	Salty	Minerals		Galvanized					metres Recommended pump	4		4	
m	Fresh	Sulphur		Steel Fibreglass					type. □ Shallow □ Deep				
Gas Other:	Salty	Minerals		Plastic Concrete Galvanized					Recommended pump	5		5	
	Fresh	 □ Sulphur			Screen				Recommended pump	10		10	
Gas Other:	Salty	Minerals	Outside	Steel Fibreglass	Slot No.				rate. (litres/min)	15		15	****
After test of we	ll vield. w	vater was	diam	Plastic Concrete					If flowing give rate -	20		20	
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Other, speci	ify			No C	asing or Sc	reen			uėd, give reason.	40		40	
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lama of W-" C		Well Conti	actor/Tec	hnician Informatio				Data O	Ministry Use				
lame of Well Co Bernard	Marc	nuardt :	Son T		ell Contractor's 3651	Licence No.		Data Source	Con	tractor	165	1	•
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ignature of Tech			ud F	_ Date	Submitted YYYY	Y MM DD 03 22			The state of the s				ä.
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	Well	Record
Regulation 903 Ontario	Water R	esources Act

WELL #21 page <u>1</u> of <u>1</u>

Instructions for	Completing	Form	
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All Sections **must** be completed in full to avoid delays in processing. Further instructions and explanations are available on the back of this form.

Ouestions regarding completing this application can be directed to the Wester Wester and the second to the processing of the second to the secon

<ul><li>All me</li></ul>	etre me	easurement clearly in blu	ts shall	be reported to 1/1	oth of a metre	•	Water Well Help Desk (Toll Free) at 1-888-396-9355.  Ministry Use Only							
F														
		cation (County	//District/N	Municipality)	To	ownship		Lot	Lot Concession					
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With the state of								171	- A					
	e Diam			Con	struction Rec	ord	***************************************		Tes	st of V	Vell Yield			
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0	2.6	25.4	centimetre	es	centimetres	From	То	Pump inta	ke set at -	min Static	Metres	min	Metres	
2.6	7.6	15.2		Steel Fibreglass	Casing	1	T	(metres) Pumping r		Level		1		
			15.9		1	0	2.6	(litres/min)	)					
Water found at Metres	ter Rec Kir	ord and of Water		Galvanized Steel Fibreglass				Duration o	t pumping + mir	2		2		
seepage	Fresh	Sulphur		Plastic Concrete	1			Final wate	r level end	3		3		
Gas Other:	Salty	Minerals		Galvanized				Recomme	metres	4		4		
m _ <u>_</u>	Fresh			Steel Fibreglass	S			type. Sha	llow Deep		***************************************			
Gas L	Salty	Minerals		Galvanized				depth.	metres	5		5		
m Gas	Fresh Salty	Sulphur Minerals	Outside		Screen			Irate	Recommended pump rate. (litres/min)			10		
Other:			diam	Steel Fibreglass	Slot No.			If flowing g	ive rate -	15 20		15 20		
After test of w				Galvanized				If pumping	s/min) discontin-	25 30		25 30		
Other, spe	ecify			No	Casing or Scr	een	eason.	40		40				
Chlorinated [	Yes	<b>⊠</b> No		Open hole		2.6	7.6			50 60		50 60		
		ging and Se	aling Red	cord 🔀 Annul		bandonment			Location o		I			
Depth set at - From	Metres To	Material and typ	e (bentonite	e slurry, neat cement slurr		ne Placed c metres)	In diagram I Indicate nor	below show distan th by arrow.	ces of well fr	om roa	id, lot line, a	nd bui	ilding.	
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Domestic Stock		☐ Industria		☐ Public Sup ☐ Not used	ply 🔀	Other						CULADSAAB	•	
Irrigation		Municipa	al		air conditioning		Audit No.	z 6491	A Dat	e Well	Completed		MM DD DD 14	
Water Supp		Recharge we	ell	Unfinished		oned, (Other)	Was the we	ell owner's informat	ion Dat	e Deliv	200	<u>)7  </u>	MM DD	
Observation     Test Hole	n well	Abandoned, Abandoned,					package del		s No					
Name of Well (	Contracto		ractor/Te	echnician Informati   W	on /ell Contractor's L	icence No.	Data Source		inistry Use Cor	Only		_48	. :	
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				almer Rapids.	ON KOJ	2E0		TR 2 9 Z007 MM				/YY 	MM DD	
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Signature of Te	ecnniciaz	<b>YUQBRACTO</b>		<b>/</b> IDa	ate Submitted	1	1							

Well Taç	,A	054063	ber below)

Well Record
Regulation 903 Ontario Water Resources Act

Instructions for Completing Form	A054063

Instructio	ns for	Completin	ng Form			A05	4063				:4	ļ	age _	of
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		ation (County	/District/Mu	unicipality)		To	ownship			Lo	t	Conce	ession	
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0	2.4	25.4	centimetres			ntimetres	From	То		Pump intake set at -	min Static	Metres	min	Metres
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Clear and	sedimen			Galvanized						If pumping discontinued, give reason.	30		30	
Other, spe					lo Casin	g or Scr		deu, give leason. 40 50				***************************************	40 50	
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From	10				siurry) etc.		c metres)	Indicate n	orth by	arrow.  Spence 54		au, iot iirie, a	lila bai	W. N
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18 Cres ame of Well T	cent Technicia	Dr., RR in (last name, fir	#1, Pal st name)	mer Rapid:			2E0 Licence No.	Remarks	111 <u>4</u> .		ell Reco	rd Number		
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Well Tag	A 054061	er below)
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	Well	Record
Regulation 903 Ontario	Water R	esources Act

Cette formule est disponible en français

Instructions	for C	ompletin	a Form			A0!	54061	WELL #22 page <u>1</u> of <u>1</u>							1 of 1
• For use in the <b>Province of Ontario</b> only. This document is a permanent <b>leg</b>							nanent <b>lega</b>	I docume	ent. Ple	ease retair	n for futur	e refe	rence.		
<ul><li>All Section</li></ul>	ns <b>m</b> u	ist be com	pleted in	full to avoi	d delays	in processi be directed	ng. Further i	instructio	ns and	explanatio	ns are ava	ailable -888-	on the ba	ck of t	this form.
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<u> </u>	rint cle	arly in blue	or black	ink only.			MUN		00		nistry Use	Only		LOT	
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Address of Well Location (County/District/Municipality)											LOI		Conce	ssion	
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Irrigation		Municipa	al		Cooling & a	ir conditioning		Audit No	)	6491	Da	te Well	Completed		MM
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Test Hole		Abandoned, Well Conf		☐ F chnician Ir	Replaceme					M	inistry Us	e Onl	у		
Name of Well Co						ell Contractor's		Data So	urce			ntracto			:
Bernard Business Address	Maro	uardt 8	Son L	itd.		3651		Date Roc	ceived:	Partie	Do Do	te of los	spection y	NVV	MM DD
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Name of Well Ted	chnician	(last name, fi	irst name)		W	ell l'echnician's	Licence No.	Remarks	S	1	We	ell Reco	ord Number		
Marguard	it, E	srad			Do	T-278	) T								

Ministry's Copy

Marquardt Brad
Signature of Technician Contractor

Marquardt Brad
Signature of Technician (last finality)

Marquardt Brad
Signature of Technician (last final

Ministry of the Environment

Well Tag	A 054062	er below)
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Instructions for Completing Form						A05	540	62			WELL #23 page <u>1</u>							
<ul><li>All Section</li><li>Question</li></ul>	ons <b>m</b> ns reg	Province of the contract be compared in the contract become arrived in the contract because t	npleted in npleting th	full to avo	id delays tion can l	in proce	essir eted	ng. Further to the Wat	instructio	ns and	d explana	itions are a	vailable	e on the b	ack of 55.	this form.		
		asurement early in blu			l to 1/10 th	of a m	etre	•				Ministry U	se Onl	У	NAMES OF THE PERSON NAMES OF T			
Well Owner's Information and Location of Well Information									CC	ON .				LOT				
First Name			Last Nan			***************************************	Ma	ailing Addres	•			RR,Lot,Co	ncessio	'n)	tures and the same of			
Honeywell Limited County/District/Municipality Township/Ci						n/Village		155 Gora	don Ba rovince		Road Il Code	Te	lephone	e Number	(include	e area code		
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Address of Well Location (County/District/Municipality)							i	wnship								Concession		
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Log of Over	rburd	en and Be	edrock M	aterials (	(see instructions)										***************************************			
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	letres	Diameter	Inside	N4-4-		Wall	- 1	Depth	Metr	es	Pumping	g test metho	· _	aw Down		ecovery		
From	То	Centimetres	diam centimetres	Mate	riai	thickne centimet		From	То	,			min	Water Leve Metres	min	Water Leve		
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Observation v		Abandoned,	insufficient s	upply 🔀 🛭	Dewatering			. , /	package			Yes No	-					
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Name of Well Co		r				II Contract		icence No.	Data Sou	ırce		C	ontracte	AK				
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18 Cres	cent	Dr., R	R#1, Pa	almer R							9 2007			,		טט איייי		
Name of Well Te								₋icence No.	Remarks		```	V	Vell Reco	ord Number				

Cette formule est disponible en français

T-2781

Date Submitted YYYY MM DD 2001 | 03 | 22



Well Tag No. for Master Well (Place Sticker and/or Print Below)

A080380.

## Master Well Record for Cluster Well Construction

Regulation 903 Ontario Water Resources Act
Page ______ of _____

Master W	ell Owner's	and L	and Owner's Infor	mation										
First Name	10		. (/	Name		)			E-mail Add	dress				
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	ACT A STATE OF			regulation								<u> </u>		
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								Replac	cement Well	Aband	doned, P	oor Water 0	Quality	
							Te de		ering Well	Other				
								Alteral	tion (Constru	ction)	doned, of	ther, specify	/	<u> </u>
						1 15	F. (2011)	No Cas	ing and S	creen Used	S	Static Wat	er Level Tes	st
					计计划主		PER L	Open Hole	9		1	I I Me	tres	ALTER A
- Control		TEAR	Construction De	tails			Harry Till	ELECT L	Yes			IME	ures	
Inside Dia			Material		Wall		(Metres)	C-1	trad 1		creen	Conne	ete Plas	-6i-
(Centime			fibreglass, concrete, g	(alvanized	Thickness	From	То	Galvar Outside D	jameter (Ci	Steel Fibr	_	Concre	ete Pla	SUG
3.45	Je	LASTI	_		0.356	0	6		121	mumeures)	Slot No	10	\	
								Water Details						
							1130.g	Water for	und at Dep		etails of Water			
	San San San							vvater ioi	Metres	-			Sulphur	Minerals
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	Section Control		A CONTRACT OF THE PARTY OF THE					Water for					Sulphur 1	Minerals
Donth Cat		Annular	Space/Abandonme	and other transmitted for	Record	Makan	a Head	Water found at Depth Kind of Water						
From	at (Metres) To		Type of Sealant (Material and Ty)				e Used Metres)						Sulphur 1	Vinerals
0	0,3	( -						DisinfectedYesNo If no, provide reason: Date Master Well Completed (yyyy/mm/dd)						
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0.3	5.5	150	אהו מסדמי					2.5						
5.5	10	< ,	MIONITY LICA SAND							n (Please also				
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								l Total We	ells in Cluste	4			Number of Cit Sheets Subm	
								Total We	ells on this F	Property 4		ລໍ		
										Location	of Well	Cluster		
								Detailed	Map must I	oe provided as			arger than le	gal size
										es are not allow				
								Check	k box to cor	nfirm detailed n	nap is pr	ovided as	per Section 1	1.1 (3)
D N			ractor and Well Tec	hnician Inf	_									
	lame of Well (	-			vveii Cont	ractor's Lic	erice No.							
	ddress (Stree	t No /No	ame, number, RR)	8.4	upicipality	x , 4	/		, , ,			1 20 0	,, ,,	
1471	) 「ソ		and, Hullion, IVI)	2		H				Ministr	v Hee f			
Providce		stal Cod	de Business E-m	nail Address	Kymon	DIVIC		Audit No.		wiinistr		ontractor N	0.	
		_		/ tuur 000					M. O	3849		The state of the		
Bus Teleph	one No. (inc. a)	4 B	Name of Well Technic	cian (Last No	me. First N	ame)		Date Res	Bed (yyyy)	2009	Date of	f Inspection	(yyyy/mm/dd)	
_	76493		Total I of Trois I of I like	(Educ 140					(J)J)//		5000	apaodioi1	(3)///	
			nature of Technician		Date Sub	mitted (yy	yy/mm/dd)	Remarks						
		- 3				.,,,								



Well Tag No. for Master Well (Print Well Tag No.)

A 080 380

## Cluster Well Information for Cluster Well Construction

Regulation 903 Ontario Water Resources Act

Page _____ of ____

Property Owner's Information					H A BA	MALLE					Consent	
	Last Name	- Par		Mailing Addr			RR) RY St.	Suite 2				
	al Code	E-mail	Address	THY MID.	130	TUSCA	CF 51".	Telephone I	No. (inc. area			
	1P 564	000000000000000000000000000000000000000						613-	365-1	- 5444		
Cluster Well Information  Address of, Well Location (Street Number/Nam	e. RR)	Lot	Co	oncession To	ownship			County	//District/Mun	nicipality		Date ( control
7 HWIDN AUE.	-,,										Signature of Technician/Contractor	Date (yyyy/mm/dd)
City/Town/Village	ostal Code	GF	GPS Unit Make Model Unit Mode of Operation Undifferentiated Averaged						☐ Averaged			
Well# UTM Coordinates on Sketch Zone Easting Northing	Full Depth of Hole (metres		Method of Construction	Casing Material	Casing Length (metres)	Screen Int	terval (metres)	Annular Space Sealant Used	Static Water Level (metres)	Abandonment Sealant Used	Comments	Date of Completion (yyyy/mm/dd)
2 1844278950278	554.8	5	AIR PORCUSION	Delustic	2	2	4,5	Bonond				2009/1/21
3 1844274450278		5	AIR PORCUSSION	PLASTIC	7	7	10	Bontonite				aooglijao
4 1844 274650278	776	5	PARCUSSION	PLASTIC	3	3	10	BENTONTE				a009/1/a0
					,		-					
												5
											[Date 14 White Class Constructed   Date Lock	Wall in Chieter Constructed
Well Contractor and Well Technicia Business Name of Well Contractor	n Information		iness Address (S	Street Number/Na	ime, RR)		Municipa	ality of		Province	Date 1st Well in Cluster Constructed   Date Last (yyyy/mm/dd)   2009	Well in Cluster Constructed  1 2007/1/27
STRATA SOIL SAMPING	one No. //ee esse	14	7005 BON		$\int_{n\pi} 2$	Address	1,	morphic		Uni	Ministry Use Only  Date Received (www/mm/dd)  Date Ins	pected (yyyy/mm/dd)
614131166905	one No. (inc. area 76 4 9	309	/				0 Signatur	e of Technicies			FEB 2 3 2009	
Name of Well Technician (First Name, Last Na	me)		vveil rechnician	's Licence No. Dat	e Submitted (	yyyy/mm/dd,	oignatur	e or recrinician				03849



Well Tag No. for Master Well (Place Sticker and/or Print Below)

A080380.

## Master Well Record for Cluster Well Construction

Regulation 903 Ontario Water Resources Act
Page ______ of _____

Master We	ell Owner's and L	and Owner's Infor	mation					- 410				
First Name	ΔΛ	The same of the sa	Name	)			E-mail Ad	dress				
Mailing Add	COTCAL	F KEAUT	y COMPAX Municipality	Province Postal Code Telephone No. (inc. area cod								
130	ress (Street Number	Name, KK)	21/1 Bit	A			∾.	KIP ST		3 15637	444	
	D (Mr. 1977)	n of the Master We	Il in the Cluster	1001	BIGE			17 11 31				
Address of	Well Location (Street	t Nymber/Name, RR)	Towns	hip				Lot	Conces	sion		
/	HINTON )	X 103	City/To	wn/Villag					Province	Postal Code		
County/Dist	trict/Municipality		City/10		SA				Ontario			
UTM Coordi	nates Zone Eastin	ng Northing	GPS Unit		Model		Mode of C	Operation:	Undifferentiate	d Averaged		
NAD	8 3 1 8 4 4	12788502	7866				Differer	ntiated, specify_				
			ructions on the back			Donth	(Metres)	Hole	Details			
General	Most Common Material	Other Materials	General Description	From	(Metres)	From	To		Diam (Centin			
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001	Jaro	Gasuer	7	-		0	13	-	10		13.1	
GIKY	CIMOSTONE	NIN	SOROCK	2	10	2	10	0	F-10-17-16-18			
						in the second						
			THE STREET									
			ALC: NO.				2002700000	Mot	er Use			
			Water Carlotte Carlo			☐ Public			Not used	Other, speci	ify	
						☐ Domes	stic 🔲 C	Commercial	Dewatering			
						Livesto		The state of the s	Monitoring Cooling & Air C	onditioning		
						RESHERS N			Construction	7 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		
						Cable	Tool	Par Per	cussion	Digging		
						(Convention (Reverse)	nal) Diamor		Boring Other, specify			
						Rotary	7.00	☐ Driving		outer, apouny		
								Status	of Well			
					134	est H	lole	Aband	oned, Insufficien	t Supply		
							cement Well		oned, Poor Wat	er Quality		
BASE STATE							ering Well tion (Constri	Other, uction) Aband		ecify		
						Open Hole		Screen Used	Static V	later Level Test		
		Construction De	etails		Lagrangia (		Yes [			Metres		
Inside Dian		Material	Wall		(Metres)	Cohor	dand 1	7 7 21 32 11 12 12 13 13	reen Co	ncrete Plastic		
3.45		fibreglass, concrete, g	Thickness 0 35%	From	To /	Galvanized Steel Fibreglass Concrete Plastic  Outside Djameter (Centimetres) Slot No.						
500	JUASTI	1	0,550	0	6		ial			0		
								Water De	tails			
						Water for	und at Dep		f Water	Outstand Distinct		
						Water for	Metres und at Dep		f Water	Sulphur Mine	erais	
WELL CONTROL OF THE PARTY OF TH	A	S/Abd	nt Capling Bassed	Name of the last		Water lo				Sulphur Mine	erals	
Depth Set a		Type of Sealant	and the contract of the contract of	Volum	e Used	Water for	und at Dep		f Water			
From	То	(Material and Ty	pe)	(Cubic	Metres)			Odo		Sulphur Mine		
	0,3 Can	KRETE .				Disinfecte	d Yes	No If no, prov	de reason: Da	te Master Well Comp yy/mm/dd)	pleted	
0.3	5.5 B	אהו עמדיי							07.	, ym ar a a y		
5.5	10 50	entonity Lica Sand				Cluster	Informatio	n (Please also	fill out the add	litional Cluster We	11	
							tion for We			cel of land and clus te Number of Cluster		
						110001110	no ni Oidoi	4		og Sheets Submitted		
						Total We	ells on this l	Property 4	1 2			
						September 1		Location o	Well Cluster			
								be provided as a	n attachment r	no larger than legal	size	
			,			11.	,	es are not allowe		as per Section 11.1	(3)	
						Onco.	N DOX 10 CO	mini detailed m	ap io provided i	25 per dedicti 11.1	(0)	
Rusiness No	Well Cont ame of Well Contract		hnician Information	tractor's Lic	once No							
	4 Soul S,	1 01 - 26	7	2 4	1							
Business Ac	dress (Street No./Na	ame, number, RR)	Municipality	1		L	/ -			(00// -1/ - 1	_	
14 M	35T SEAWOR	ROOK, UNTO	L KKYMON	office				Ministry	Use Only			
Province	Postal Cod	D0011000 E 11				Audit No.	M. O	3849	Well Contracto	No.		
Bus.Telepho	one No. (inc. area code	Name of Well Technic	cian (Last Name, First N	lame)		Date Res	Bed (yyyy	2009	Date of Inspect	ion (yyyy/mm/dd)		
	7649309											
Well Technic	ian's Licence No. Sign	nature of Technician	Date Sub	omitted (yy	yy/mm/dd)	Remarks						



Well Tag No. for Master Well (Print Well Tag No.)

A 080 380

## Cluster Well Information for Cluster Well Construction

Regulation 903 Ontario Water Resources Act

Page _____ of ____

Property Owner's Information	on			E Mineral		W. A. B.	HE IS					Consent	
First Name	Last	Name CTCALF	Par	- Coarl	Mailing Addr			RR) 27 St.	Suite 2				
Province	Postal Cod	de	E-mail	Address	MAY MID.	130	TUSCA	751.	Telephone I	No. (inc. area			
ONT	KIP	564	POST SERVICE S						613-	365-1	- 5444		
Cluster Well Information  Address of Well Location (Street Num	nber/Name, RR	8)	Lot	Co	ncession To	ownship			County	//District/Mun	icipality	1 Company of Frankski and Company	Date (conformation
7 HWON AUE.		~										Signature of Technician/Contractor	Date (yyyy/mm/dd)
City/Town/Village	Onta		stal Code	GF	S Unit Make M	odel		de of Oper rentiated, s		differentiated	☐ Averaged		
Well# UTM Coordinates on Sketch Zone Easting North	ning	Full Depth of Hole (metres)	Hole Diameter (cm)	Method of Construction	Casing Material	Casing Length (metres)	Screen Int	erval (metres)	Annular Space Sealant Used	Static Water Level (metres)	Abandonment Sealant Used	Comments	Date of Completion (yyyy/mm/dd)
2 184427860	27865	4.8	5	AIR PORCUSION	DRUSTIC	2	2	4,5	Bonona				200g/1/21
3 +844274450			5	AIR PERCUSSION	PLASTIC	7	7	10	Bontonite				2007/1/20
4 1844 274650	27877	6	5	PORCUSSION	PLASTIC	3	3	10	Bennerite				2009/1/20
												Date 1st Well in Cluster Constructed   Date Last	Well in Cluster Constructed
Well Contractor and Well Te Business Name of Well Contractor	echnician In	formation	Bus	ness Address (S	Street Number/Na	me, RR)		Municipa	lity of		Prov <del>i</del> nce	(yyyy/mm/dd)209/1(20	/ /
STRATA SOIL SAMP			14	7 DOST BOX	LOR CROSS (	PNT 2	_	1,	morphice		Uni	Ministry Use Only	
414131166910	ess Telephone I	No. (inc. area o	code)	, vveii Contractor	s Licence No. Bus							FEB 2 3 2009	pected (yyyy/mm/dd)
Name of Well Technician (First Name	e, Last Name)			Well Technician	's Licence No. Dat	e Submitted (	yyyy/mm/dd,	Signatur	e of Technician			c 01676 Remarks	03849



Well Tag No. for Master Well (Place Sticker and/or Print Below)

A080380.

### Master Well Record for Cluster Well Construction

Regulation 903 Ontario Water Resources Act
Page ______ of _____

Master W	ell Owner's and	Land Owner's Infor	rmation							
First Name	10	. ()	Name	. )			E-mail Ad	dress		
	PIETCA	LF KEALT	4 COMPI	try L	· dt	Drowin		Postal Code	Tolonho	one No. (inc. area code)
	fress (Street Number	er/Name, RR)		У	Δ.	Provin				2 KIZ 3 ~ VUL
130	100	ST. DUITE	210 0	MAN	4 -		2.	KIPS	01 61	3 243 177
		on of the Master We et Nymber/Name, RR)		wnship				Lot	Conces	ssion
,	HINTON	Aus								
	trict/Municipality	7 100	Cit	y/Town/Villa					Province Ontario	Postal Code
UTM Coord	inates Zone East			Unit Make	Model		Mode of C	Operation:	Undifferentiate	ed Averaged
NAD		4278850					Differer	ntiated, specify_		
		ck Materials (see inst			(Metres)	Denth	(Metres)	Hole	Details	neter
General Colour	Most Common Material	Other Materials	General Description	From	To	From	To			metres)
BRN	SAND	Gasver	Ourezueren	, 0	2	0	2	8.6	25	
GOY	1	Gasuer	B-200	2		2	10	5		
Olive	-IMOSIONES	17/1	Dankock	0	10	- (	10	0		
		Permit				district.	202			
							化社道			
				T- 4.12.1			E COLUMN TO THE PARTY OF THE PA	Wat	er Use	
	TO THE STATE OF TH				The second	Public			Not used	Other, specify
						☐ Domes			Dewatering	
						Livesto			Monitoring Cooling & Air (	Conditioning
					1	migas			Constructio	N 184
						Cable	Tool	PAR Per		Digging
							(Conventio	nal) Diamo	nd 🔲	Boring
							(Reverse)	_ Jetting		Other, specify
						Rotary	(Air)	Driving	<u> </u>	
								- TUL CITEDO	s of Well	
						Renlar	ole cement Wel	The same of the sa	oned, Insufficie oned, Poor Wa	
							ering Well	Other,		
						Altera	tion (Constru	uction)	oned, other, sp	ecify
						No Cas	sing and S	creen Used	Static V	Water Level Test
						Open Hole	е		1 1 1	Metres
1.126612		Construction De	etails				Yes		reen	Metres
Inside Diar (Centime)		Material c, fibreglass, concrete, g	Wa (railyanized) Thickn		(Metres)	Galvar	nized T	Steel Fibre		oncrete Plastic
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				Harry H.				Water De	etails	
						Water for	und at Dep		f Water	
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THE STATE OF	No.   Proprietario	The Charles of the Charles	ABBERRARIE RAMBI	TATE SHARE		Water for	und at Dep Metres		f Water sh Saltv	Sulphur Minerals
Donth Set	Annula at (Metres)	ar Space/Abandonme Type of Sealant	and the Control of Table 1999 and		ne Used	Water for	und at Dep		f Water	
From	To	(Material and Ty			: Metres)					Sulphur Minerals
0	0,3 Ca	~ 0000				Disinfecte	d TYes	No If no, prov	ide reason: Da	ate Master Well Completed
02	5.5 B	4-618							(9)	yyy/mm/dd)
0.5	0.0	אהו מסומצי				2000	THINAIS.	April 1990		
5.5	10 S	EICA SAND								ditional Cluster Well cel of land and cluster.)
						Total We	ells in Clust	er //		ate Number of Cluster Well
						Total We	ells on this l	Property _/	Information	Log Sheets Submitted
								Location	f Well Cluste	
						Detailed	Map must			no larger than legal size
				-		(8.5" x 14	4"). Sketche	es are not allowe	ed.	
						Check	k box to co	nfirm detailed m	ap is provided	as per Section 11.1 (3)
	Well Cor	tractor and Well Ted	hnician Informat	ion	No.					
Business N	ame of Well Contra			Contractor's Li	cence No.					
	4 Sore	Name, number, RR)		120	1 /					
	ddress (Street No./N	/ // /	Municipali	ity 🏑						2001/01/01
Provide	Postal Co			nono/l/L(		Audit No.		Ministry	Well Contractor	or No.
//-	L141B		min / todi 000				M. O	3849	Troil Contract	
Bus.Telepho	one No. (inc. area cod	e) Name of Well Techni	cian (Last Name, Fir	st Name)		Date Res	Bed yyy	ZHU)	Date of Inspec	ction (yyyy/mm/dd)
905	7649301	1								
		nature of Technician	Date	Submitted (y	yyy/mm/dd)	Remarks				
						1107				



Well Tag No. for Master Well (Print Well Tag No.)

A 080 380

## Cluster Well Information for Cluster Well Construction

Regulation 903 Ontario Water Resources Act

Page _____ of ____

Property Owner's Information	on			E Mineral		W. A. B.	HE IS					Consent	
First Name	Last	Name CTCALF	Par	- Coarl	Mailing Addr			RR) 27 St.	Suite 2				
Province	Postal Cod	de	E-mail	Address	MAY MID.	130	TUSCA	751.	Telephone I	No. (inc. area			
ONT	KIP	564	POST SERVICE S						613-	365-1	- 5444		
Cluster Well Information  Address of Well Location (Street Num	nber/Name, RR	8)	Lot	Co	ncession To	ownship			County	//District/Mun	icipality	1 Company of Frankski and Company	Date (conformation
7 HWON AUE.		~										Signature of Technician/Contractor	Date (yyyy/mm/dd)
City/Town/Village	Onta		stal Code	GF	S Unit Make M	odel		de of Oper rentiated, s		differentiated	☐ Averaged		
Well# UTM Coordinates on Sketch Zone Easting North	ning	Full Depth of Hole (metres)	Hole Diameter (cm)	Method of Construction	Casing Material	Casing Length (metres)	Screen Int	erval (metres)	Annular Space Sealant Used	Static Water Level (metres)	Abandonment Sealant Used	Comments	Date of Completion (yyyy/mm/dd)
2 184427860	27865	4.8	5	AIR PORCUSION	DRUSTIC	2	2	4,5	Bonona				200g/1/21
3 +844274450			5	AIR PERCUSSION	PLASTIC	7	7	10	Bontonite				2007/1/20
4 1844 274650	27877	6	5	PORCUSSION	PLASTIC	3	3	10	Bennerite				2009/1/20
												Date 1st Well in Cluster Constructed   Date Last	Well in Cluster Constructed
Well Contractor and Well Te Business Name of Well Contractor	echnician In	formation	Bus	ness Address (S	Street Number/Na	me, RR)		Municipa	lity of		Prov <del>i</del> nce	(yyyy/mm/dd)209/1(20	/ /
STRATA SOIL SAMP			14	7 DOST BOX	LOR CROSS (	PNT 2	_	1,	morphice		Uni	Ministry Use Only	
414131166910	ess Telephone I	No. (inc. area o	code)	, vveii Contractor	s Licence No. Bus							FEB 2 3 2009	pected (yyyy/mm/dd)
Name of Well Technician (First Name	e, Last Name)			Well Technician	's Licence No. Dat	e Submitted (	yyyy/mm/dd,	Signatur	e of Technician			c 01676 Remarks	03849

Ministry of a No (Place Sticker and/or Print Below) Well Record the Environment Regulation 903 Ontario Water Resources Act A 086742 AO86742 asurements recorded in: 

Metric 

Imperial Well Owner's Information Realty Company Vtd.

Municipality E-mail Address ☐ Well Constructed by Well Owner ng Address (Street Number/Name) Province Postal Code Telephone No. (inc. area code) 2700 Queensuein Dr KZB846 Well Location Concession Address of Well Location (Street Number/Name) Township Lot 6 Hinton Ave ounty/District/Municipality City/Town/Village Province Postal Code Ottawa Ontario UTM Coordinates | Zone | Easting | Northing | NAD | 8 | 3 | 1 | 8 | 4 | 4 | 2 | 6 | 9 | 5 | 0 | 2 | 7 | 8 | 0 | 6 | Municipal Plan and Sublot Number Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form) Depth (m/ft) General Colour Most Common Material General Description Other Materials Results of Well Yield Testing **Annular Space** Type of Sealant Used (Material and Type) After test of well yield, water was: Depth Set at (m/ft) Volume Placed Draw Down Recovery Time  $(m^3/lt^3)$ Clear and sand free Water Level Time Water Level (en/ft)(m/lt)Other, specify (min) Cement Static If pumping discontinued, give reason: Berbnite Level 1 1 12 Pump intake set at (m/ft) 2 2 3 3 Pumping rate (Vmin / GPM) Method of Construction Well Use 4 4 Commercial Not used Cable Tool Diamond Public Duration of pumping Municipal Rotary (Conventional) Jetting Domestic Dewatering 5 5 hrs + min Test Hole Monitoring
Cooling & Air Conditioning Rotary (Reverse) Driving Livestock Boring Final water level end of pumping (m/ft) Digging Irrigation 10 10 Air percussion Other, specify Industrial Other, specify 15 15 If flowing give rate (Vmin / GPM) Construction Record - Casing Status of Well 20 20 Depth (m/ft) Open Hole OR Material Wall ☐ Water Supply Recommended pump depth (m/ft) Thickness (Galvanized, Fibreglass, Replacement Well 25 25 From То (cm/in) (cm/in) Test Hole Plastic Recommended pump rate 1.25" Recharge Well 30 30 0.25" (Vmin / GPM) Dewatering Well 40 40 Observation and/or Well production (I/min / GPM) Monitoring Hole 50 50 Alteration Disinfected? (Construction) Yes No 60 60 Abandoned, Insufficient Supply Map of Well Location Construction Record - Screen Abandoned, Poor Please provide a map below following instructions on the back Outside Depth (m/ft) Water Quality Material (Plastic, Galvanized, Steel) Slot No Abandoned, other, motion From To (cm/in) specify 1.25 10 Other, specify Water Details **Hole Diameter** Depth (m/ft) Water found at Depth Kind of Water: Fresh Untested To (cm/in) (m/ft) Gas Other, specify 3.25 Water found at Depth Kind of Water: Fresh Untested (m/ft) Gas Other, specify Water found at Depth Kind of Water: Fresh Untested (m/ft) Gas Other, specify Well Contractor and Well Technician Information Business Name of Well Contractor

Strata Soil Sampling

Business Address (Street Number/Name)

Z-147 West Beauto Creek Dr 7241 Municipality Richmond/11 Province Postal Code Business E-mail Address

ON LHBIC6 WEGOLS & StadeSo, (ccy)

Bus. Telephone No. (inc. area code) Name of Well Technician (Last Name, First Name)

9057649704 Mail Me

Well owner's information package delivered

Well Technician's Licence No. Signature of Technician and/or Contractor Date Submitted

Yes

No Date Package Delivered Ministry Use Only Audit No. 2 100285 Date Work Completed JIII 2 9 2009 20090825 20090705 Ministry's Copy

Mestal control water Resources At Mestal	\$ O	ntario Minist	ry of nvironment	- 1	Well	V. Plann Sticker on							ecord
Well Overlands   Consequence	Measureme	ents recorded in:	Metric ⊡mi	nperial	A 0	187222	AC	87	Regulation	19030		r Res	
Method of Construction	Well Own	ner's Information								<i>1</i> 4 <i>V</i>		HE	
Marting Advance Street Number/Harmany  Annual and Space  Annual and Space  Conformation (Space and Space)  Annual and Space  Conformation (Space and Space)  Annual and Space  Conformation (Space and Space)  Conformation (S	First Name		. 1/		nar	140/	E-m	nail Addres	SS				
Annular Space  Annular Space  Other Materials  Other Mate	Mailing Add	ress (Street Number/Nar	me)	_	M	unicipality		_			Telephone N		
Annuals Space    Contribution of Contribution	2700		veim	DF		OHawa		370	KZBS	46	HARRIE LE	213160	\$144 PAIA
Control Continues   Zone   Estang   Northing   Children's   Children's		Well Location (Street Nur			To	ownship	2744222		Lot		Concession	IVATE III	2116111111
Uniformity (Commercial Calcular Commercial Calcular Commercial Calcular Cal	County/Dist		16		Ci	ity/Town/Village				Provin	ce	Postal	Code
NAD IS 3 IS 14477 I SO 2788 IS  Concentral Calcular Medic Common Malerial  Other Materials  Results of Well Visid Testing  Townson To						_					ario		
Depth field at Construction   Pack						unicipal Plan and Subio	t Numbe	er"		Otner			
Contract Color   Results of Well Visid Testing   Promition States   Promition States   Promition States   Promition S						d (see instructions on the	back of ti				KBBBB	Don	th (m/ft)
Depth Set at (mft)   Type of Seafard Lived   Volume Placed   Type   Type of Seafard Lived   Volume Placed   Type   Type of Seafard Lived   Type   T	General Co	olour Most Comm	non Material		Othe	er Materials		G	eneral Description	1			
Depth Set at (mft)   Type of Seafard Lived   Volume Placed   Type   Type of Seafard Lived   Volume Placed   Type   Type of Seafard Lived   Type   T													
Depth Set at (mft)   Type of Seafard Lived   Volume Placed   Type   Type of Seafard Lived   Volume Placed   Type   Type of Seafard Lived   Type   T													
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Cement   Cement   Cement   Cement   Comment					H.	then and the			And in contrast of the last of				
Cement												_	Water Level
Well Use	0'	1' Cem	ent								(m/ft)	(min)	(m/ft)
Sand   Sand   Well Use   Demonstration   Dem	1'						If pump	ing discont	tinued, give reason:				
Method of Construction	4'						Pump i	ntake set :	at (m/ft)				
Method of Construction   Public   Commercial   Not used   Public   Public   Commercial   Not used   Public							"	mano oor	as (			-	
Construction Record - Screen   Distriction   Construction Record - Screen   Distriction   Construction Record - Screen   Distriction   Distr	Meth	nod of Construction	BHIRBAR		Well Use	е	Pumpir	ng rate (l/m	nin / GPM)				
Retary (Reverse)   Driving   Driving   Depth   Driving   Direct Push   Other, specify   Direct Push   Direct Pus							Duratio	n of pump	oing	-			
Construction Record - Casing   Depth (n/nt)   Status of Well   Depth (n/nt)   20   20   20   20   20   20   20   2	Rotary (F	Reverse) Driving	Live	stock	Xest Hole	e \(\mathbb{X}\)\text{lonitoring}	Final w						
Construction Record - Casing   Status of Well   Popen fulled (Pimarker Supply   Diameter (cm/h)   Converte, Plastic, Steel)   From   To   Replacement Well   Recommended pump depth (m/h)   25   25   25   25   25   25   25   2	Air percu	ission Direct Di	ndu Indu	strial	Cooling	s Air Conditioning	I II Idi W	ater level e	nd of pumping (mm)	10			
Depth (m/ti)   Depth (m/ti)   Depth (m/ti)   Depth (m/ti)   Pepter (m/ti)		outly			111000000	Status of Wall	If flowing	ng give rate	e (Vmin-/ GPM)			15	
Construction Record - Screen   Construction Record - Screen Record Record Record - Screen Record Record - Screen Record Record - Screen Record Record - Screen Record Record Record - Screen Record Record - Screen Record Record - Screen Record Record - Screen Record Record Record - Screen Record Record - Screen Record Record Record - Screen Record Recor		Open Hole OR Material	Wall		(m/ft)		Recom	mended p	oump depth (m/ft)	20			
Recharge Well   Dewatering w	(cm/in)	Concrete, Plastic, Steel)		From	То		Bassam	mondad r	umo rato	25		25	
Well production (Wimin / GPM)   40   40   40   50   50   50   50   50	1.25"	Plastic	0.25"	0"	5'				ump rate	30		30	
Alteration (Construction)   Abandoned.   A						☐ <b>∲</b> bservation and/or	Well pr	oduction (	I/min / GPM)	40		40	
Construction Record - Screen					100	Alteration	Disinfe	cted?		50		50	
Construction Record - Screen    Abandoned, Poor   Water Quality   Abandoned, other, specify   Other						Abandoned,	☐ Ye	s No		60		60	
Diameter (Crivin)   Contractor and Well Contractor Sampling Inc.   Past Soil Sampling Inc.   Pas	Outeide	and the same of th	Record - Scree			Abandoned, Poor	Please	provide a				ack.	
Water found at Depth Kind of Water: Fresh Untested (m/th) Gas Other, specify  Water found at Depth Kind of Water: Fresh Untested (m/th) Gas Other, specify  Water found at Depth Kind of Water: Fresh Untested (m/th) Gas Other, specify  Water found at Depth Kind of Water: Fresh Untested (m/th) Gas Other, specify  Well Contractor and Well Technician Information  Business Name of Well Contractor and Well Technician Information  Business Address (Street Number/Name)  147-2 West Beaver Creek Road Richmond Hill  Province Postal Code Business E-mail Address Ontario 148 1C6 wrecords@stratasoil.com  Business No. (inc. area code) Name of Well Technician (Last Name, First Name)  905-764-9304  Well Technician's Licence No. Signature of Technician add/or Contractor Date Submitted  20090705  Well Technician's Licence No. Signature of Technician add/or Contractor Date Submitted  20090705  No. 20090705	Diameter		Slot No.			Abandoned, other,							5+
Water found at Depth   Kind of Water:   Fresh   Untested   Depth (m/ft)   Diameter   From   To   (cm/ft)   Diameter   Depth (m/ft)   Depth	1.25"	Plastic	10	51	15'		2	X	5 I 4m			•	
Water found at Depth Kind of Water: Fresh Untested (m/tt) Gas Other, specify  Water found at Depth Kind of Water: Fresh Untested (m/tt) Gas Other, specify  Water found at Depth Kind of Water: Fresh Untested (m/tt) Gas Other, specify  Water found at Depth Kind of Water: Fresh Untested (m/tt) Gas Other, specify  Well Contractor and Well Technician Information  Business Name of Well Contractor Well Contractor's Licence No. Strata Soil Sampling Inc. 7 2 4 1  Business Address (Street Number/Name)  147-2 West Beaver Creek Road Richmond Hill  Province Postal Code Business E-mail Address Ontario L4B 1C6 wrecords@stratasoil.com  Bus. Telephone No. (inc. area code) Name of Well Technician (Last Name, First Name)  905-764-9304 Mail Make 20090 705  Well Technician's Licence No. Signature of Technician and/or Contractor Date Submitted 20090 705  Who Date Work Completed Received						Other, specify	1 5		,				
Water found at Depth Kind of Water: Fresh Untested (m/tt) Gas Other, specify  Water found at Depth Kind of Water: Fresh Untested (m/tt) Gas Other, specify  Water found at Depth Kind of Water: Fresh Untested (m/tt) Gas Other, specify  Well Contractor and Well Technician Information  Business Name of Well Contractor Well Contractor's Licence No. Strata Soil Sampling Inc. 7 2 4 1  Business Address (Street Number/Name)  147-2 West Beaver Creek Road Richmond Hill  Province Postal Code Business E-mail Address Ontario L4B 1C6 wrecords@stratasoil.com Ontario L4B 1C6 wrecords@stratasoil.com Bus. Telephone No. (inc. area code) Name of Well Technician (Lest Name, First Name)  905-764-9304 Mail Well Technician's Licence No. Signature of Technician and/or Contractor Date Submitted 20090705  Well Technician's Licence No. Signature of Technician and/or Contractor Date Submitted 20090705  Who water found at Depth Kind of Water: Fresh Untested Untested United Stratasoil. Completed Only Indicated Submitted 20090705  Well Technician's Licence No. Signature of Technician and/or Contractor Date Submitted 20090705	SHEET STATE	Water De	tails	HOUSE	н	ole Diameter	X	110					
Water found at Depth Kind of Water:   Fresh   Untested   15   33.25   15   15   15   15   15   15   15				Untested			1 31	1101	2				
Water found at Depth Kind of Water: Fresh Untested (m/tt) Gas Other, specify  Well Contractor and Well Technician Information  Business Name of Well Contractor Well Contractor's Licence No. Strata Soil Sampling Inc. 7 2 4 1  Business Address (Street Number/Name) Municipality 147-2 West Beaver Creek Road Richmond Hill  Province Ontario I.4B 1C6 wrecords@stratasoil.com Ontario No. (inc. area code) Name of Well Technician (Last Name, First Name) 905-764-9304 Main Mac 20090705  Well owner's Information package delivered Information package delivered Well Technician's Licence No. Signature of Technician and/or Contractor Date Submitted 20090705  Mill Date Work Completed Version No. (Inc. area code) Name of Well Technician and/or Contractor Date Submitted Package Delivered Information package delivered Well Technician's Licence No. Signature of Technician and/or Contractor Date Submitted Package Delivered Information Package Del				Untested	0'	15 93,25	12			1	^		
Well Contractor and Well Technician Information  Business Name of Well Contractor Strata Soil Sampling Inc.  Business Address (Street Number/Name)  147-2 West Beaver Creek Road Richmond Hill  Province Ontario  Business E-mail Address Ontario  I 4B 1C6  Well Contractor's Licence No. Richmond Hill  Province Ontario  Business E-mail Address Ontario  Well ontractor Licence No. Well ontractor's Licence No.  Well owner's Information  Date Package Delivered Information  Well owner's Information  Date Package Delivered Information  Audit No. Z 93059  Well Technician's Licence No. Signature of Technician and/or Contractor Date Submitted  Well owner's Information  Date Work Completed  Yes  Who  Date Work Completed  Yes  Who  No. Z 93059				Untocted			12			10			
Business Name of Well Contractor Strata Soil Sampling Inc.  Business Address (Street Number/Name)  147-2 West Beaver Creek Road Richmond Hill Province Ontario  Business E-mail Address Ontario  I 4B 1C6 wrecords@stratasoil.com Bus.Telephone No. (inc. area code)  Name of Well Technician (Last Name, First Name)  905-764-9304  Well Technician's Licence No. Signature of Technician and/or Contractor Date Submitted  Well Technician's Licence No. Signature of Technician and/or Contractor Date Submitted  200907055  XNo  Parking 1Cf  Comments:  Comments:  Well owner's information package Delivered information package delivered delivered  Y Y Y Y M M D D  Date Work Completed  Yes  XNo  Name Of Well Technician and/or Contractor Date Submitted  Yes  XNo  Name Of Well Technician and/or Contractor Date Submitted  Yes  XNo  Name Of Well Technician and/or Contractor Date Submitted  Yes  XNo  Name Of Well Technician and/or Contractor Date Submitted  Yes  XNo  No  Received				Ontested			I			t	7		
Strata Soil Sampling Inc. 7 2 4 1  Business Address (Street Number/Name)	Projects N		or and Well	Techniciar	the state of the s	A CANADA CONTRA PARA DA CANADA PARA DE CANADA PARA	il \		Parking	10	4		
Province Ontario L4B 1C6 wrecords@stratasoil.com Bus.Telephone No. (inc. area code) Name of Well Technician (Last Name, First Name) 905-764-9304 Mail Mill Mill Mill Mill Mill Mill Mill			pling I	nc.	vve				2 (0.23	~	-		'
Province Ontario L4B 1C6 wrecords@stratasoil.com Well owner's information package delivered Well Technician 's Licence No. Signature of Technician and/or Contractor Date Submitted  3 4 4 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				ok D-		nicipality	Comme	ents:					
Bus. Telephone No. (inc. area code) Name of Well Technician (Last Name, First Name)  905-764-9304 Mui) Mike  Well Technician's Licence No. Signature of Technician and/or Contractor Date Submitted 20090705 Xho  Information package delivered   Y   Y   Y   M   M   D   D   Date Work Completed   Yes   Xho	Province	Postal Code	Business			Cimona HIII							
Well Technician's Licence No. Signature of Technician and/or Contractor Date Submitted  20090705  Mol No. No. 20090705  Mol No. No. 20090705									ate Package Deliver	ed	Minis:	ry Us	e Only
Well Technician's Licence No. Signature of Technician and/or Contractor Date Submitted  3 4 4 8 Natural Natural 20090705 Xio 20090824 Received			nn		0 1-			d -		_	7.001.140.2	93	3059
		ian's Licence No. Signature			tractor Dat	e Submitted		es	ale Work Completed	211	2 4 7 1 2 2 3 4 5 5 5	29	2009
mining a group	0506E (12/20		an /	The same of the sa	2		L AN	4	THE PARTY OF THE P	24	1100001100	Printer f	or Ontario, 2007

Place Sticker and/or Print Below) Ministry of Well Record the Environment Regulation 903 Ontario Water Resources Act A 087223 AOBT223 asurements recorded in: 

Metric Merial Well Owner's Information E-mail Address Last Name / Organization ☐ Well Constructed by Well Owner Realty Company Ltd ber/Name) Municipality Mailing Address (Street Number/Name) Postal Code Telephone No. (inc. area code) Province 2700 Queensvein ON KZB8H6 Well Location Concession Address of Well Location (Street Number/Name) Township Hinton Ave City/Town/Village Province Postal Code County/District/Municipality Ontario UTM Coordinates | Zone | Easting | Northing | NAD | 8 | 3 | 1 | 3 | 0 | 4 | 4 | 2 | 2 | 8 | 5 | 5 | 2 | 7 | 8 | 3 Municipal Plan and Sublot Number Other Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form) General Description Most Common Material Other Materials General Colour 01 5-1 Sond / Clay F: 1) 15 Granite Results of Well Yield Testing Annular Space After test of well yield, water was: Recovery Draw Down Type of Sealant Used (Material and Type) Volume Placed Depth Set at (m/ft) Time  $(m^3/ft^3)$ Clear and sand free Water Level Time Water Level Other, specify (min) (m/ft) (min) (m/ft) 11 cement Static If pumping discontinued, give reason: Bentonite 4" Level 1 1 15" Pump intake set at (m/ft) 2 2 3 3 Pumping rate (I/min / GPM) Well Use Method of Construction 4 4 Public Commercial Not used Diamond Cable Tool Duration of pumping Rotary (Conventional) Jetting
Driving Domestic Municipal Dewatering 5 5 hrs + min Test Hole Monitoring Livestock Rotary (Reverse) Final water level end of pumping (m/ft) Cooling & Air Conditioning Boring Digging Irrigation 10 10 Industrial Air percussion Other, specify Other, specify 15 15 If flowing give rate (I/min / GPM) Status of Well Construction Record - Casing 20 20 Water Supply Open Hole OR Material Wall Depth (m/ft) Recommended pump depth (m/ft) Thickness Replacement Well 25 25 From To Concrete, Plastic, Steel) (cm/in) (cm/in) Test Hole Recommended pump rate (Vmin / GPM) Plastic 30 25" 0' Recharge Well 0.25" Dewatering Well 40 40 Cobservation and/or Monitoring Hole Well production (I/min / GPM) 50 50 Alteration Disinfected? (Construction) Yes No Abandoned, Insufficient Supply Map of Well Location Construction Record - Screen Abandoned, Poor Water Quality Please provide a map below following instructions on the back. Outside Depth (m/ft) Material (Plastic, Galvanized, Steel) Slot No. Abandoned, other, Diameter Armstrong 5+ From (cm/in) specify 1.25' Plastic 51 10 151 Other, specify Water Details **Hole Diameter** Depth (m/ft) Diameter Water found at Depth Kind of Water: Fresh Untested From To (m/ft) Gas Other, specify Water found at Depth Kind of Water: Fresh Untested 0 3-25 15' (m/ft) Gas Other, specify
Water found at Depth Kind of Water: Fresh Untested (m/ft) Gas Other, specify Well Contractor and Well Technician Information Business Name of Well Contractor Stracta Soil Sampling 7241 Business Address (Street Number/Name)
2-147 West Beaver reck Dr Business E-mail Address 1 4BICG wrecords@stradasoil.com Ministry Use Only Date Package Delivered Well owner's information Audit No. 2 100300 JUL 2 9 2009 Bus.Telephone No. (inc. area code) Name of Well Technician (Last Name, First Name) package delivered 9057449304 Mike Mari Well Technician's Licence No. Signature of Technician and/or Contractor Date Submitted Date Work Completed Yes 20090705 20090705 © Queen's Printer for Ontario, 2007 Ministry's Copy

Well Record
Regulation 903 Ontario Water Resources Act Well Tag No. (Place Sticker and/or Print Below) Ministry of the Environment A 099842 A099842 8806 Page 1 of 2 Measurements recorded in: Metric | | Imperial

Address of Well I	Location (Street Num	1000		10	ownsnip		Lot		Johnocaalor		
County/District/N	Municipality	Aven	se.	С	ity/Town/Village			Provinc		Postal	Code
OH	ava.				Ottawa			Onta	rio		
UTM Coordinates	1 4 11/10-	70 1 NO	rthing	21/11 M	lunicipal Plan and Sublo	ot Number		Other			
NAD 8 3		Is/Abando	nment Sea	ling Reco	rd (see instructions on the	back of this form)				200	
General Colour	Most Comm	the second second			er Materials		ral Description	41 to		Dept	th (m/ft)
6~4	Cobbles					Hard d	ru			0	1.22
Brallen	Send			Sil	+	Hard	+ mo	is+		22	244
/ Diagram	Sand limeste		1	21,		LL	1.10	121		.44	61
67	11MCS7E	m C		<u>- 1776</u> Bill 1786.11		mara,			4	.74	0.7
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				COLUMN AND AND AND AND AND AND AND AND AND AN							
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		Annular				The state of the s	Results of We	ASSESSMENT OF THE PARTY OF THE	Market Street Company	-	
Depth Set at (	m/ft) To	Type of Sea (Material an			Volume Placed (m³/ft³)	After test of well yield,  Clear and sand f		_	Water Leve	_	Water Level
0 .3	1 Concre	to 121	uchma	unt		Other, specify		(min)	(m/ft)	(min)	(m/ft)
Mark Control of the Control			43/1/10			If pumping discontinue	ed, give reason:	Static Level			
13/ 1.8	3 Noie	plug						1		1	
1.83 3.	Reference to the second	+ sh	erry			Pump intake set at (r	n/ft)	2		2	
3.1 6,	1 Sa	nd				Dunning sets (feels (	CDIA	3	W.	3	
	of Construction			Well Us		Pumping rate (Vmln /	GPIW)			4	910 800
Cable Tool Rotary (Conve	entional) Diamond	Service Co.	blic mestic	☐ Comme		Duration of pumping		4			
Rotary (Reven	se) Driving	Liv	estock	Test Ho	le Monitoring	hrs +1		5		5	
Boring Air percussion	Digging	☐ Irri	gation ustrial	Cooling	& Air Conditioning	Final water level end of	of pumping (m/ft)	10		10	
Other, specify		Ott	ner, specify			If flowing give rate (V	min / GPM)	15		15	
	Construction Re		-	Omi	Status of Well		1496	20		20	
Diameter (Ga	en Hole OR Material alvanized, Fibreglass,	Wall Thickness	From	(ga/ff)	☐ Water Supply ☐ Replacement Well	Recommended pum	p depth (m/ft)	25		25	
	ncrete, Plastic, Steel)	(cm/in)			Test Hole	Recommended pum	p rate	30		30	
3.45	ANC.	.356	0	3,35	Recharge Well Dewatering Well	(Vmin / GPM)					
					Observation and/or Monitoring Hole	Well production (I/mir	(GPM)	40		40	
			Carried States		Alteration	Disinfected?		50	20	50	
					(Construction)  Abandoned,	Yes No		60		60	
arenauer	Construction R	ecord - Scre	en	HUNDR	Insufficient Supply Abandoned, Poor	Black British	Map of W	ell Loc	ation		
Outside Diameter (Dia	Material	Slot No.		m(m)	Water Quality Abandoned, other.	Please provide a map	spencer	instructi	ons on the	back,	1 4
(cm/in) (Pla	stic, Galvanized, Steel)		From	То	specify specify		1	20.	P		N
4.21	PVL	10	3.35	6.1	Other, specify					7	
					Cuter, specify				130	m	土
House Mark	Water Det	ails	a transfer	and the second second second	lole Diameter	13		Mary 1			15
	Depth Kind of Water		Untested	From	th (m/ft) Diameter (cm/in)	4			4	m 6	m I
(m/ft) Water found at	Gas Other, spe Depth Kind of Water		Untested	0	2.44 8.25	2			(BX	->K	2 3
(m/ft)				2.44	6.1 5.71	inte					4
	Depth Kind of Water		Untested	02. 74	01 01.11	12 1	200				18
(m/ft) L	Gas Other, spe		To a boot of	1.5	Af and		A STATE OF		14 3		
Business Name	Well Contractor	or and well	Technicia		ell Contractor's Licence No.				en e		
Strata	Soil		plino		1241		Armst	ong			1
Business Addres	ss (Street Number/Na	S10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- 1	- IT	unicipality	Comments:					
Province	Postal Code		E-mail Add		ichmond Hill						
ontario	-14/B1/10	Carlo		- 101	ratasoilea	Well owner's Date F	Package Delivere	d	Minis	stry Use	Only
Bus. Telephone N	o. (inc. area code) Na			ast Name,	First Name)	information package	YYMM	plall	Audit No.	4 4	CON PART CHAP
Well Technician's L	icence No. Signature	of Technicia	n and/or Co	ontractor De	te Submitted		Vork Completed	0 0	Z	11	155
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TWAIT Tan No. (Place Sticker and/or Print Below)

Well Record

Regulation 903 Ontario Water Resources Act

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Well Loca						Lot		Concesion		
	Well Location (Street I			Fownship		Lot	· ·	Concession		
	trict/Municipality		(	City/Town/Village			Province	ce	Postal	Code
				ottawa			Onta	ario		
	nates Zone Easting	Nort		Municipal Plan and Sublo	t Number		Other			
NAD		111150	027889	and to the state of the	hand a fall in farmer		100000			
General Co		mmon Material		ord (see instructions on the ner Materials	Dack of this form,	General Description				th (m/ft)
	,			,	4.04	4			From	1.5
Bm	San		Grave		2021	1 2			-	
BIK	TOP	501/	San	4	Hard,	ary '			.5	1.83
Gry	lime	Stone			Hard			1.	83	5.55
- 1										
	TO A CONTROL OF THE PARTY OF TH	Annular S	pace	LESSON DE LA SERVICIO	5200 Harris	Results of We	II Yiel	d Testina		
THE CONTRACTOR SOURCE	et at (m/ft)	Type of Seals	ant Used	Volume Placed	CONTRACTOR OF THE PARTY OF THE	Il yield, water was:	Dra	aw Down		ecovery
From	То	(Material and		(m³/ft³)	☐ Clear and ☐ Other, spe		Time (min)	Water Leve (m/ft)	Time (min)	Water Level (m/ft)
0		TOTAL STREET, THE PARTY OF THE	ushmount		100000000000000000000000000000000000000	continued, give reason:	Static			
.31	1.5 Hol	epluy					Level 1		1	
45	2.74 6	ront sl	urry		Pump intake s	et at (m/ft)	10000			
2.74	5.55	Sand			T drip intako o	ot at (mmy	2		2	
Meth	nod of Construction		Well U	Se Se	Pumping rate	(I/min / GPM)	3	1 4000	3	
Cable To		COLUMN TO SECURE					4		4	
	Conventional)				Duration of pu hrs +	mping	5		5	
Rotary (F	Reverse) Drivir			ole Monitoring  & Air Conditioning	Final water leve	el end of pumping (m/ll)	10		10	
Air percu		Indu								
Other, sp			er, specify	04-4	If flowing give	rate (I/min / GPM)	15		15	
Inside	Open Hole OR Materia	n Record - Casl	Depth (m/ft)	Status of Well  Water Supply	Recommende	d pump depth (m/ft)	20	2	20	
Diameter (cm/in)	(Galvanized, Fibreglas Concrete, Plastic, Stee	s, Thickness	From To	Replacement Well			25		25	
345	PVZ		0 3,1	Test Hole Recharge Well	Recommende (l/min / GPM)	d pump rate	30		. 30	
- 45	1	.356	0 3,1	Dewatering Well	Jarrami'r Ci iwy		40		40	
				Observation and/or Monitoring Hole	Well production	n (I/min / GPM)				
				Alteration (Construction)	Disinfected?		50		50	
	/			Abandoned,	Yes	No	60		60	
	Constructio	n Record - Scree	n	Insufficient Supply  Abandoned, Poor		Map of W			Hiller.	
Outside Diameter	Material (Plastic, Galvanized, Str.	Slot No.	Depth (m/ft)	Water Quality Abandoned, other,	Please provide	a map below following		tions on the I	ack.	1 (4)
(cm/in)			From To	specify	-		11	m	4:50	+0
4.21	PVL	10	3.1 5.55	Other, specify			10	M	1	
										1I
50.00		Details		Hole Diameter	Ave		000	30m		tamilton
	nd at Depth Kind of W		Untested Dep From	oth (m/ft) Diameter To (cm/in)	4					1
	n/ft) Gas Other, nd at Depth Kind of W		Untested	1.83 8.25	5				and the	3
	n/ft) Gas Other,		183	5.55 6.71	Hinten					4
	nd at Depth Kind of W		Untested	3,22 8.76	王					Ave
(n	n/ft) Gas Other,									
Business N	Well Contra ame of Well Contracto		echnician Informa	ation /ell Contractor's Licence No.			212		7	
Str	ata Soil	Sam	Pling	7 2 4 1		Armstro	24			
Business A	ddress (Street Number	r/Name)		unicipality	Comments:		-			
Province	Postal Code	Beauce	E-mail Address	KichmondHill						
Ontar	TO LUBI			tratasoilcom	Well owner's	Date Package Delivere	ed	Minis	try Us	e Only
Bus.Telepho	one No. (inc. area code)	Name of Well Te	echnician (Last Name	, First Name)	information package	YYYYWM	nla	Audit No.		FF 141
705	7699309	Dea:	THY Bric		delivered Yes	Date Work Completed	0	45 St. 10 St.	10000	754
3 6	sian's Licence No. Signal	ture of Technician		ate Submitted	☐ No	2011/07	616	AUG	052	011
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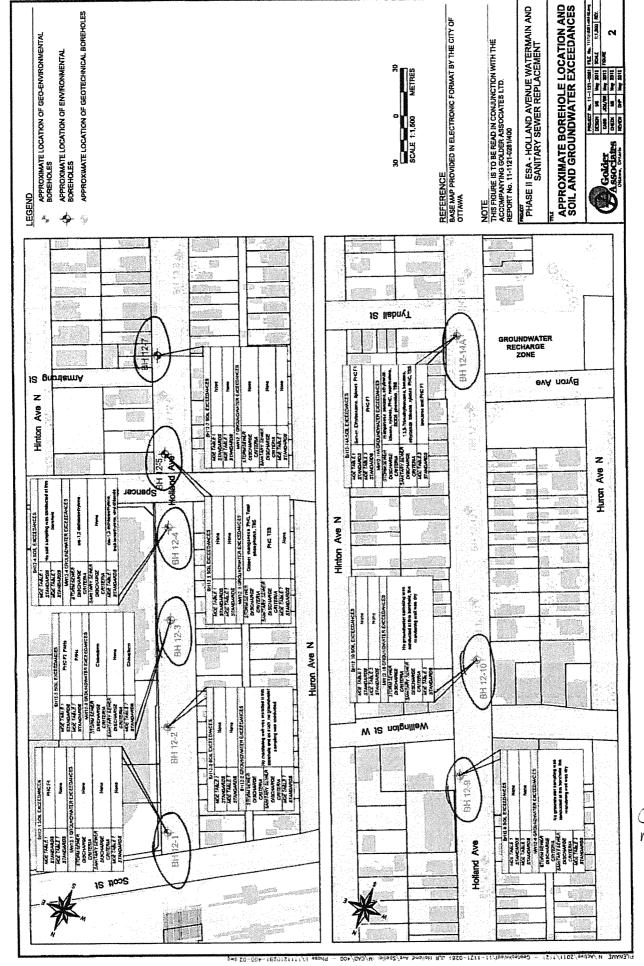
## Well Tag No. for Master Well (Place Sticker and/or Print Below) AB ANDONED

## Master Well Record for

Cluster Well Construction
Regulation 903 Ontario Water Resources Act

Eirct Name		and Land Own	er's Inform Last Na					E-mail Add	dress	F	age 1 01
City Mailing Ad	ot Ottuwn	umber/Name, RR	)	Municipality 0++	uwn		Provir	nce M	Postal Cod		phone No. <i>(inc. area code)</i>
Location	and Constru	iction of the M		in the Cluster				100			
	Well Location ( and Avenne	Street Number/N Between S		d Tyndall Ave	•				Lot	Con	cession
	strict/Municipali		COLL 21 WE		· own/Villag	je				Province	Postal Code
UTM Coord	linates Zono	Easting	, Northing	GPS Un	it Make	Utt Model	awa	Mode of C	neration:	Ontario Undifferent	
		4 4 2 7 25				Etv	rex		tiated, specify	2	nated
				ctions on the back	of this fo			(0.6-4)	Hol	e Details	
General Colour	Most Comm Material	ion Oth Mate		General Description	From	( <i>Metres</i> )   To	From	(Metres)			iameter ntimetres)
······································							0	5,79		3,2	7.6
							☐ Public			ter Use  Not used	Other, specify
							☐ Domes	stic C	ommercial [	] Dewatering	Curen, Specify
							Livesto			Monitoring Cooling & A	ir Conditioning
							l and the	-	Method o	f Construc	tion
<u> </u>							Cable	Tool (Convention	beautient		☐ Digging ☐ Boring
				<u>a kalus kat liup ti seudustu</u> Kapus ang pandi Tibuntus a				(Convention (Reverse)	☐ Diam		Other, specify
							Rotary	(Air)	Drivin	g	
										s of Well	all of the second
							∏ Test H ∏ Replac	iole cement Well		doned, Insuffi doned, Poor \	<ul> <li>In the Control of the C</li></ul>
								ering Well		, specify	specify Construction
							Altera	tion (Constru	ction) 🛂 Aban	aonea, other,	specify with within
							No Cas Open Hole		creen Used	Stati	c Water Level Test
		Constr	uction Deta	ils				Yes 🔽	***************************************	creen	Metres
Inside Dia		Materi lastic, libreglass, d		Wall vanized) Thickness		( <i>Metres</i> )   To	Galvar	nized 🔲 S		reglass []	Concrete Plastic
3.0	"cos   lorge (	addio, may egicles		sch40	5.79	0	Outside D	iameter (Ce	ntimetres)	Slot No.	10
3.0							L	3.2			
							Water for	und at Dept	Water D	etails of Water	
											y Sulphur Minerals
Employees (Annual Control Cont							Water for	und at Dept Metres	- 1	of Water esh   □Salb	Sulphur Minerals
Depth Set		nular Space/Aba Type o	andonment: of Sealant Use		Volume	e Used	Water for	und at Dept		of Water	I township
From	То	(Mater	rial and Type)		(Cubic	Metres)		Metres			/ Sulphur Minerals
5.79	0	Holy pl	иу				Disinfecte	d □Yes [	]No If no, pro	vide reason:	Date Master Well Completed (yyyy/mm/dd)
an contract of the second											additional Cluster Well parcel of land and cluster.)
and a second								lls in Cluste		Please inc	dicate Number of Cluster Wel
							Total We	lls on this P	-	- Inionnatio	n Log Sheets Submitted
									COLUMN TO THE PROPERTY OF THE		
							Detailed I	Man must b	i i i i i i i i i i i i i i i i i i i	of Well Clus an attachme	i <b>ter</b> nt no larger than legal size
							(8.5" x 14	l"). Sketche	s are not allow	red.	ed as per Section 11.1 (3)
							L	-	MEDINOTES MANAGEMENT		ncerning the cluster to
							the Direc	tor upon re	quest		
***************************************							Signature	or recrinic	an/Contractor		Date (yyyy/mm/dd)
	ame of Well Çoi	ntractor	Well Techn	ician Information Well Con	tractor's Lice				s/Land Owner	r's consent	to use Cluster Form
Mavat		y lo.ltd,	DE)	6	8 1 9	14	Signature				Date (yyyy/mm/dd)
Business A	ddress (Street N 7 Hivam D	lo./Name, number	, HH)	Municipality Offw	wat				Ministr	y Use Only	
Province	Posta	I Code Bus	siness E-mail	Address			Audit No.	. or		Well Contra	
Ontav		1 1 1 1 1 1	ischelle m	navathor dvilling (Last Name, First N	, ( <b>om</b>				028	Date of Inco	ection <i>(yyyy/mm/dd)</i>
4	. A	- 1 N.L.(1)	$\Lambda = 1$ ).	Co <b>BI</b>	unioj		Date Rec	iut '3'''l	Z01Z	Pare Or High	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
Well Technic	ian's Licence No.	Signarure of Tel	halcian	/// Date Sub	omitted (yy)		Remarks				
1 / 1	4 4	I IVIUNT	100 11/1	WH Suly	36th/3	111					Queen's Printer for Ontario, 2006

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Well Record for Well Cluster - Part 1 of 3 the Environment (Only for Multiple Test Holes or Dewatering Wells) Well Tag No. of Deepest Well: (Print Well Tag No.) A122972
Well # on Drawing of Deepest Well: E-3 Regulation 903 Ontario Water Resources Act All measurements recorded in: Metric Follow instructions on the front and back of this form. Print or Type **Well Cluster Location Information** Mandatory Attachments/Additional Information Address of Well Location (Street Number(s)/Name(s), RR, if available) Lot(s) Geographic Township Concession(s) County/District/Upper Tier Municipality X Land Owner Consent Form must be attached. Detailed Drawing of All Well Locations must be attached 233 ARM STRONG ST. City, Town, Village or Hamlet I, the person constructing the well, will promptly submit to the GPS Unit Make Province Model Unit Mode of Operation Averaged Undifferentlated Director, on request, any additional information in my custody or Ontario control related to any well in the well cluster that I have constructed OHAWA GARMEN Differentiated, specify: ETREX Well Details Signature of Technician/Contractor Date (yyyy/mm/dd) Casing Annular Space Material Well# Casing Screen Interval **UTM Coordinates** Hole Hole Method of Overburden/Bedrock or Static Date of Material: (m/ft) (m/ft) (m/ft) Depth Diameter Construction Abandonment Filing Material Intervals (m/ft) Water Completion Diameter Diameter (m/ft) Drawing Zone Easting Northing (cm/in) _evel (m/ft) (yyyy/mm/dd) To From From Material: (cm/in) asphaltic Concrete, Brown Dand 4 8 4428225027835 NIA asphaltic Concrete, Brown sand & 3.2 charel, some clay asphaltic Concrete, Brown sand & gravel Geofiobe 0 2.5 N/A 12/4/12 limestone sittative sandstone no overbruder, limestone, cholostone, limestone, sittstone, sandstone, overbruden, limestone, dolostone, limestone, sittstone, sandstone 25 18 414 2814 7510 2718 77 10.16 Diano 7.6 0 NIA ho 28365027893 7.6 2,5 10.16 NIA nele Well Contractor and Well Technician Information Date First Well in Cluster Constructed Date Last Well in Cluster Ministry Use Only or Abandoned (yyyy/mm/dd) Completed (yyyy/mm/dd) Date Received (yyyy/mm/dd) | Audit No. Business Address (Street Number/Name, RR) Province 20576 2012/4/18 410 Rue Principale Grenville-sur-la-Rouge
Well Contractor's Licence No. Business E-mail Address  $Q_{\mathcal{C}}$ 2012/4/12 Well Abandonment TOVIBOSI9-2426469 1844
Name of Well Technician (First Name, Last Name) Well Technician's Licence Nedowning Charkings, net Person Abandoning the Wells:

3326

(Print or Type) - See instruction 11 on the back of this form



# Well Record for Well Cluster - Part 2 of 3 Land Owner Consent

This form is to be completed by the person who constructs or abandons test holes or dewatering wells that form all or part of a well cluster. If this form is being used to report any well abandonment, these wells must have been previously reported as part of a single well cluster.

**Note**: For well cluster records, only the owners of the land on which the wells are situated are to give written consent. If the well purchaser (e.g. a consultant who hires the driller) is not the owner of the land, then the well purchaser cannot sign the consent form

By signing this form, land owners are providing consent to use one well record to report a well cluster of test holes or dewatering wells in accordance with section 16.4 of Regulation 903 made under the *Ontario Water Resources Act*.

This completed Well Record for Well Cluster Part 2 - Land Owner Consent must be attached to Parts 1 and 3.

* Please PRINT if completing by hand.

Well Tag Number: #	· AI	122	9=	72	
AACII I ad I Adii inci.		Lance Career	•	Same and a	_

"Well Record for Well Cluster" Audit Number: # (20576

Well # on Detailed Drawing	Property Location Description	Land Owner's Name	Signature of Land Owner	Date Signed (yyyy/mm/dd)
VP12-02	233 Armstrong St.	TROY Kemady		2 - 12 - 1 ( )
UP12-03	233 Armstrong St. Ottawa ON	101 Cotomber Red Mey moreistown, NJ 07962	-3/	201334 (/
UPIZ-01	N	Carleton tavern		
EZ		233 Affanstrong of		
E3	$\mathcal{N}$	И		
EY				
,,	1 PR 1 7 2013		·	
	C-1844			

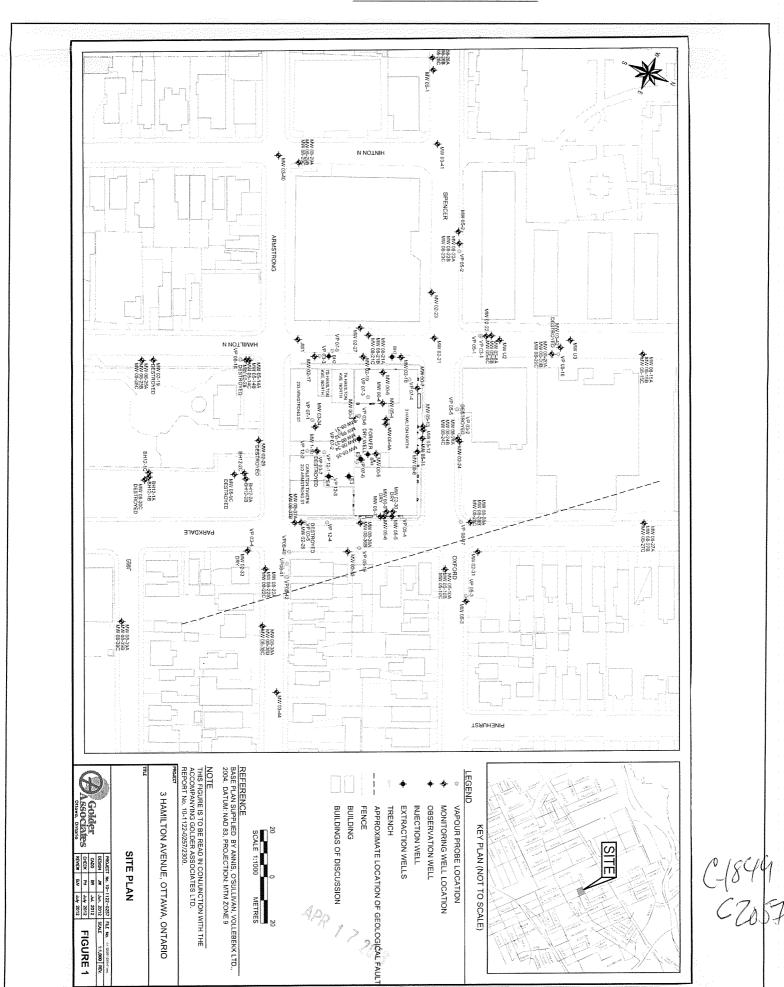
### Well Record for Well Cluster - Part 3 of 3 Detailed Drawing of All Well Locations

**Note**: This **Well Record for Well Cluster Part 3 - Detailed Drawing of all Well Locations**, must be attached to Parts 1 and 2. The drawing must include all property boundaries, an arrow indicating the North direction, all named roads and sufficient measurements to locate all wells in the cluster in relation to fixed points. The drawing must show the location of each well and each well must be numbered on the drawing to match number used for that well on the **Well Record for Well Cluster Parts 1 and 2**. The well with the well tag must be clearly identified on the Drawing.

UTM coordinates should appear beside each well, if space permits. Additional comments on wells can be included on the drawing

Well Tag Number: # P122972

"Well Record for Well Cluster" Form Audit Number: # = 3 C 20576



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C.	Ontario

Well Tag No. (Place Sticker and/or Print Below)

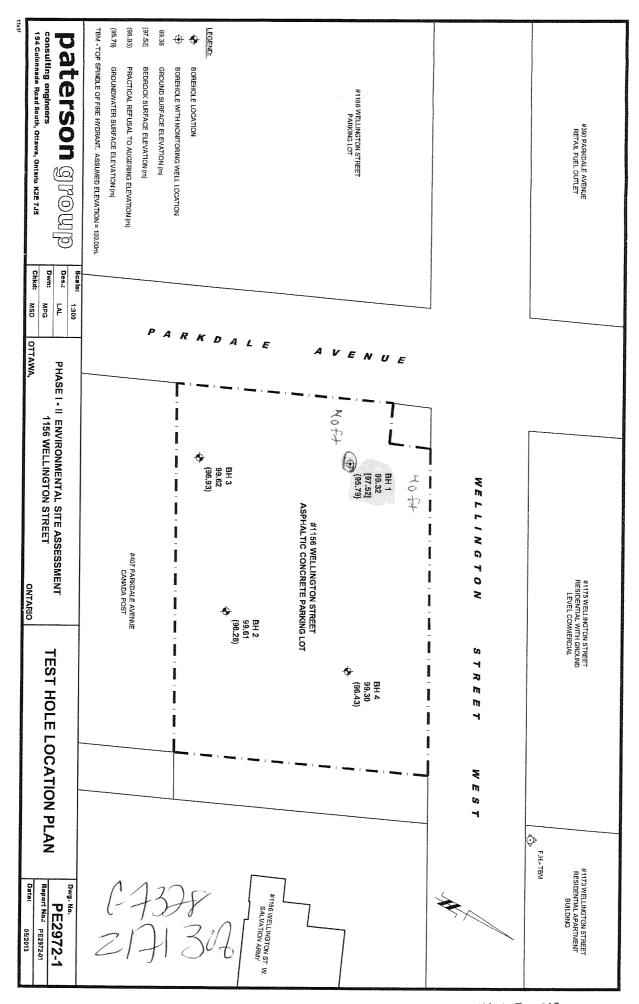
. 1	41	50	7	

Well Record

Regulation 903 Ontario Water Resources Act Page 1 of /

Measuren	nents record	ded in: 🛮 🖾	Metric	Imperial	AL	1250/		***************************************	P	age{	of	
DESCRIPTION OF THE PROPERTY.	vner's Info		Last Name /	0	_		F 2/Δ	11				
First Name   Last Name / Organization   TAGGART   NVESTMENTS								ddress			Constructed Il Owner	
Mailing Address (Street Number/Name)  TAGGART INVESTMENTS  Municipality								Postal Code	e Telepho	ne No. (inc.		
3187	7 ALB	NON Ri	ond S	NTH		CITAWA	01	<u> </u>	700000000000000000000000000000000000000			
Well Loc		- /D/ - 1 N	1 (81	30.00		·		Lot	Conso	nion		
			mber/Name) N Stre		1	ownship		Lot	Conce	ssion		
County/Dis	strict/Munici	cality	N DIRE	C) VV	C >1	City/Town/Village			Province	Postal	Code	
OMA												
	dinates Zone	Easting	9685	orthing ロロクラフェ	723	lunicipal Plan and Sub	lot Number		Other			
				<del></del>		rd (see instructions on th	e back of this for	m)		10.34		
Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the General Colour Most Common Material Other Materials								General Description				
N/a ASPHALTIC CONCRETE CRUSHED						Soude Cano Copate				From (	0.60	
									0.69	1.80		
BROWN FILL SILTY SAND, GRAVE							BRICK			180	7.65	
GREY BEDRUCK (LIMESTONE)											1.00	
						END OF BOREHOLE			-			
				a manual and a man								
							· · · · · · · · · · · · · · · · · · ·					
STREET,												
			Annular	Space		Man (1)	Results of Well Yield Testing					
Depth S From	Depth Set at ( <i>m/ft</i> ) From To			lant Used		Volume Placed (m³/ft³)	11	After test of well yield, water was:			ecovery Water Level	
<u></u>			(Material and Type)			<u> </u>	☐ Clear and sand free☐ Other, <i>specify</i>		Time Water I	1 1	(m/ft)	
	1.1		MENT				If pumping dis	scontinued, give reason:	Static Level			
<u> </u>	3.3	BENT	DOITE				-		1	/ 1		
***							Pump intake	set at (m/ft)	2 /	2		
444									$\parallel - \parallel / - \parallel$			
Met	hod of Cor	struction			Well Us	e	Pumping rate	e (Ilmin / GPM)	3	3		
Cable To	ool	<b>Z</b> Diamon			☐ Commer	cial Not used	Duration of p	umnina	4	4		
☐ Rotary (Conventional)     ☐ Jetting     ☐ Domestic     ☐ Municipa       ☐ Rotary (Reverse)     ☐ Driving     ☐ Livestock     ☐ Test Hole							hrs +	/	5	5		
☐ Boring ☐ Digging ☐ Irrigation ☐ Cooling 8					-	& Air Conditioning	Final water lev	vel end of pumping (m/ft)	10	10		
☐ Air percu	ussion necify HSA	DIAMON	D ☐ Ind	ustrial ier, <i>specify</i> _					15	15		
			ecord - Cas			Status of Well	If flowing give	e rate (limin i GPM)				
Inside			Wall		To 4.81	Water Supply Replacement Well Test Hole Recharge Well	Recommend	ed pump depth (m/ft)	20	20		
			Thickness (cm/in)	From			Recommended pump rate		25	25		
320			ScHED #10						30	30		
1444			SCHOI	)		Dewatering Well  Observation and/or			40	40		
119						Monitoring Hole	Well producti	on (Ilmin   GPM)	50	50		
						Alteration (Construction)	Disinfected?					
						Abandoned, Insufficient Supply	Yes	No	60	60		
O. Halda	Construction Record - Screen Abandoned, Poor							Map of Well Location  Please provide a map below following instructions on the back.				
Outside Diameter	ameter (Plastic Galvanized Steel)		Slot No.	Slot No. Depth (m/ft) From To		Water Quality Abandoned, other,	III loade provid	rease provide a map below following instructions on the back.				
(cm/in)			I n			specify	TO CONTROL OF THE PROPERTY OF					
1.	21 pvc 10 4.81 7.65			Other, specify	(See Ch. 2009)							
										sr wesr		
		Water De		7	<u> </u>	ole Diameter			DV 2	7		
7 53	-		r: Fresh	Untested	From	n ( <i>m/ft</i> ) Diameter To ( <i>cmlin</i> )	enantainena Viillisena	Amer. 9	200.72 (20.72) (20.76) (20.76)	in .	<u></u>	
Water found at Depth Kind of Water: Fresh Untested 0 1.80 20.3									Water of a contraction or procedures of a contraction of		Figure -	
(m/ft) ☐ Gas ☐ Other, specify 1 & V 7 b 5 7 b							l see		29.45 20.13 20.0 20.0 20.0	<i>i</i> /		
Water found at Deptit Kind of Water. Tresh Officested							© COMMENT ATTEMPT OF THE COMMENT OF	ed Adds (5 Pilos)	- Canadana none			
(mlft) Gas Other, specify							patersor	CONTRACTOR SERVICES		1 1	PE2972-1	
Well Contractor and Well Technician Information  Business Name of Well Contractor  Well Contractor's Licence No.							Transfer and services, trees	36 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994, 25 994	NIAL SEE ASSESSMENT TEST	HOLE LOCATION PLAN	Service Services	
EASTERN UNTARIO DIAMOND DRILLING 7 3 28 Business Address (Street Number/Name)  Municipality												
Province Postal Code Business E-mail Address								EE ATTACHE	n (Fall	ARGED	)	
- 1								Date Package Delivere	COMPANY DISCOURT DISC	nistry Use	Only	
Bus. Telephone No. (inc. area code) Name of Well Technician (Last Name, First Name)								YYYYMM	Audit N	).	-	
Well Technician's Licence No. Signature of rechnician and/or Contractor Date Submitted							package delivered	Date Work Completed	<u> </u>	1713   252	06	
Well Technic	cian's Licence i	No. Signature	of Fechnicia	n and/or Co	intractor Date	Submitted 0 1 3 0 6 20	Yes No	210141310141	30 10	252	013	
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## **APPENDIX 3**

**QUALIFICATIONS OF ASSESSORS** 

## Karyn Munch, P.ENG.



Geotechnical Engineering

Environmental Engineering

**Hydrogeology** 

Geological Engineering

**Materials Testing** 

**Building Science** 

Archaeological Services

#### **POSITION**

Intermediate Environmental Engineer

#### **EDUCATION**

Carleton University, B.Eng. 2002 Environmental Engineering

#### **MEMBERSHIPS AND AWARDS**

Professional Engineers of Ontario Ottawa Geotechnical Society

#### **EXPERIENCE**

2011-present

Paterson Group Inc.

Consulting Engineers Geotechnical and Environmental Division Intermediate Engineer

2009-2010

**Department of Indian and Northern Affairs** 

Contaminated Sites Division Environment Officer (PC-02)

2003 to 2009

Paterson Group Inc.

Consulting Engineers Geotechnical and Environmental Division Intermediate Engineer

2002 to 2003

Dessau Soprin Inc.

Consulting Engineers Environmental Division Junior Engineer

#### **SELECT LIST OF PROJECTS**

Billings-Hurdman Interconnect Watermain - Ottawa
Telus Building Remediation - Ottawa
Block D Lands Remediation and Redevelopment – Kingston
Gladstone Avenue Reconstruction - Ottawa
Lees Avenue Coal Tar Site - City of Ottawa
Nortel Networks Environmental Monitoring Program
3W Zone Feedermain – Ottawa
Bank Street Reconstruction – Ottawa
Lees Avenue Remediation Program – Ottawa
Colonnade Road North Development – Ottawa
Montreal Road Reconstruction – Ottawa
Designated Substance Surveys – Residential and Commercia

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

Brownfields Applications and Records of Site Condition – Residential and Commercial Redevelopment

## Mark S. D'Arcy, P. Eng.



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