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Phase I - Environmental Site Assessment

Vacant Commercial Land 6130 and 6150 Hazeldean Road Ottawa, Ontario

Prepared For

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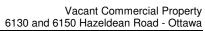




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EXECUTIVE SUMMARY

Assessment

Paterson Group was retained by Mr. Allan Jackson of 2062915 Ontario Inc., to conduct a Phase I-Environmental Site Assessment for the properties addressed 6130 and 6150 Hazeldean Road in the City of Ottawa (Stittsville), Ontario. It should be noted that the subject property was previously addressed 6176 Hazeldean Road. The purpose of the Phase I-ESA was to research the past and current use of the site and study area and to identify environmental concerns with the potential to have impacted the subject property.

Historically, the property also included civic addresses along Neil Avenue. The western parcel of land (37 Neil Avenue), was originally used for residential purposes while the remainder of the site was vacant, undeveloped land. The eastern parcel was subsequently occupied by a Ministry of Transportation storage shed and associated yard, for the reported storage of salt and/or sand from the 1950's through the 1970's. The central portion of the site was developed with an industrial structure in the early 1970's (35 Neil Avenue). The building was occupied by Instronics Ltd. and reportedly used for the assembly and manufacturing of aircraft black boxes. Circa 1984, the entire subject property was purchased by Kavanagh Family Investments Inc. and along with the adjacent land to the west, was operated as the Stittsville Flea Market. The former residence at 37 Neil Avenue was operated as a restaurant by this time. In the 1990's the easternmost parcel of land was developed with a small structure referred to as a commercial cottage, which was used for both residential and commercial purposes. In 2004 the Stittsville Flea Market was closed and by 2009 no buildings remained onsite. The property has since been vacant and unused.

Based on the findings of the historical research in combination with the site visit, five on-site PCAs and one off-site PCA have resulted in four areas of potential environmental concern (APEC) on the subject property:

APEC 1: Former heating oil AST at 37 Neil Avenue (PCA 1);
APEC 2: Former manufacturing and former heating oil UST at 35 Neil Avenue (PCAs
2 and 3);
APEC 3: Historical use as storage by MTO (PCA 4);
APEC 4: Possible impacts from offsite retail fuel outlet (PCA 5);
APEC 5: Importation of fill material of unknown quality (PCA 7).





The former heating oil UST at 35 Neil Avenue (PCA 3) was previously addressed during a soil remediation program and groundwater monitoring event in 2005 and a subsequent groundwater monitoring event in 2012, at which time no contaminant concentrations were identified above the method detection limits.

The OCDSB facilities department (PCA 6) located south of the site, across Neil Avenue, is not considered to pose a concern to the subject property based on the distance of the current maintenance building/former service garage from the site (over 60 m).

Conclusion

Based on the findings of the Phase I-ESA, it is our opinion that a **Phase II-ESA is required** for the subject property.





1.0 INTRODUCTION

At the request of 2062915 Ontario Inc. and 2073945 Ontario Inc., Paterson Group (Paterson) conducted a Phase I - Environmental Site Assessment (ESA) for the properties addressed 6130 and 6150 Hazeldean Road in the City of Ottawa (Stittsville), 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. Allan Jackson with 2062915 Ontario Inc. Mr. Jackson can be reached by telephone at (613)518-2005.

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



2.0 PHASE I PROPERTY INFORMATION

Address: 6130 and 6150 Hazeldean Road, Ottawa, Ontario.

Parcel Identification

Number: 04458-0013, 04458-0014, 00458-0015

Legal Description: Parts 1, 2 and 3 on plan 4R-21452; Part of Lot 24,

Concession 12 in the Geographic Township of Goulbourn

Location: The subject property is located on the south side of

Hazeldean Road, between Carp Road and Stittsville Main Street. Refer to Figure 1 - Key Plan, following the body of

this report, for the site location.

Latitude and Longitude: 45° 16' 15" N, 75° 55' 56" W

Site Description:

Configuration/Area: 1.8 hectares (approximate).

Zoning: AM(9) - Arterial Mainstreet Zone.

Current Use: The subject site is currently vacant, unutilized land.

Services: The site is located in a municipally serviced area.

Report: PE3699-1R March 3, 2016



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 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 Ontario Regulation 153/04) made under the Environmental Protection Act and in compliance with the requirements of CSA Z768-01; Provide a preliminary 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 Study Area Determination

A radius of 250 m was determined to be appropriate as a Phase I study area for the Phase I Environmental Site Assessment. Properties outside the 250 m radius are not considered to have impacted the subject land, based on their significant distances from the site.

First Developed Use Determination

According to the Chain of Title, the site was generally owned by private individuals from the 1800's through the 1940's when the eastern parcel of land was expropriated by the Ontario Ministry of Transportation (MTO). The central portion of the site (35 Neil Avenue) was sold to Instronics Ltd. in 1976. The entire property was subsequently operated as the Sittsville Flea Market from 1984 through 2004. Subsequent to the operation of the flea market, the site was unused with the exception of the easternmost parcel of land which was used for residential/commercial purposes until approximately 2006/2007.

Based on a review of aerial photographs, in 1945 the subject property was undeveloped land, largely covered with trees. The western portion of the site was subsequently developed with a residential dwelling and the eastern portion of the site was occupied by the MTO sometime between 1945 and 1963. Based on information gathered from available resources, the eastern portion of the subject property was first developed for industrial purposes in 1948 under ownership of the MTO. The western portion was first developed for residential purposes in 1957 (MOECC well record).

City of Ottawa Street Directories

Ottawa city directories from 1991 through 2011 were reviewed at the National Archives, at approximate ten year intervals, for the subject site and properties located within the Phase I-ESA study area. Older directories were not available for the area. It should be noted that the subject property was previously addressed 6176 Hazeldean Road and consisted of several addresses along Neil Avenue: 1, 35 and 37 Neil Avenue. Listings for the subject property are identified in Table 1 below.



Table 1 City Directories - Listings for the subject site						
Site Occupant	From	То	Potential Environmental Concern (Y/N)			
6176 Hazeldean Road						
Stittsville Market, Kavanagh Realty 1982 Ltd., Auction Canada	1997	1999	N			
Kavanagh Realty, Artrise Gallery, Auction Canada, Stittsville Market	1999	2001	N			
1 Neil Avenue						
Confederation Log Homes	1993	1997	N			
19 th Hole Inc. (Golf Supplies)	1997	2001	N			
Grasson, J (residential)	2001	2011	N			
Magstripe Technologies (Credit Card Services)	2011	2011	N			
35 Neil Avenue - not listed						
37 Neil Avenue						
Maggie`s Restaurant	1993	1997	N			
The Whitehorse Restaurant	1997	2001	N			
Rocco`s Restaurant	2001	~2002	N			

According to the directories, neighbouring properties within the Phase I study area were used for a combination of residential and commercial purposes. The city directories search did not identify any potential contaminating activities (PCAs) within the Phase I study area.

Fire Insurance Plans

Fire Insurance Plans (FIPs) were not available for the subject site and Phase I ESA study area.





Chain of Title

A current land title was prepared for the subject site, by Read Abstracts Limited. The records review was extended back to 1803 and was separated by property identification number (PIN). Based on the findings of the review, the original record is a patent to Joshua Bradley dated May 14, 1803. The subsequent record indicates a change in ownership from John Bradley to Joshua Bradley in 1914. The property was owned by the Bradley family until 1957 when sold to Victor and Theresa Tapp and subsequently to Jasmine Knowles in 1969.

The parcel identified as PIN 04458-0013 (the westernmost parcel) was sold by Jasmine Knowles to Alan Sharpley in 1977 and then to Kavanagh Realty (1982) Ltd. and Laurie Kavanagh in 1984. A name change from Kavanagh Realty (1982) Limited to Stittsville Flea Market Inc. occurred in 2004.

The parcel identified as PIN 04458-0014 (the central parcel) was sold in 1977 by Jasmine Knowles to Instronics Limited. A power of sale was subsequently registered from Ontario Development Corporation to Stittsville Hotels Limited in June of 1979. Kavanagh Realty (1982), later known as Stittsville Flea Market Inc., purchased the parcel of land in 1984.

The parcel identified as PIN 04458-0015 (the easternmost parcel) was expropriated by the Department of Highways of Ontario in 1948 and later sold to Bounty Real Estate Investments Inc. in 1987. Bounty Real Estate later became Kavanagh Family Investments Ltd., in 2004.

The title was merged sometime after 2004 and the subject property was sold in part to a numbered company in 2006 and then to Canril Corporation in 2009. The land was sold back to Kavanagh Family Investments Limited in 2009. Kavanagh is the most recent registered land owner.





Previous Environmental Reports

In September of 2005, Paterson supervised an environmental remediation program on the central portion of the property previously addressed 35 Neil Avenue. A furnace oil underground storage tank (UST) on the south side of the former building was removed by a licenced contractor, along with approximately 28 metric tonnes of petroleum hydrocarbon impacted soil. Upon completion of the remediation program, a monitoring well was installed within the tank nest in order to obtain a groundwater sample for analytical testing purposes. Confirmatory soil testing conducted upon the conclusion of the remediation program did not identify any benzene, toluene, ethylbenzene, and xylenes (BTEX) or petroleum hydrocarbon (PHCs, F1-F4) concentrations in excess of the current MOECC Table 3 standards. Analytical testing of the groundwater did not identify any BTEX parameters above the method detection limits, however F2 and F3 concentrations (600 μ g/L) were identified in excess of the current MOECC standards.

In May of 2006, Paterson completed a Phase I-II ESA at the subject site, as well as an additional parcel of land to the west of the subject property (1174 Carp Road). During the investigation, a borehole was advanced inside the former building located at 35 Neil Avenue, to assess potential impacts associated with the former UST noted above. Soil analytical testing conducted at that time did not identify any detectable concentrations of the analysed parameters from the borehole placed in the area of the former on-site UST.

In March of 2012, Paterson once again conducted a Phase I-II ESA for the subject parcel of land. Boreholes, instrumented with monitoring wells, were advanced within the former tank nest, as the previous monitoring well had been destroyed, and on the northeastern portion of the site to address the recently constructed retail fuel outlet located across Hazeldean Road. Based on the findings of the investigation, soil and groundwater concentrations were considered to be in compliance with the current MOECC Table 3 standards.

Plan of Survey

A survey plan dated September 28, 2006, and prepared by Stantec Geomatics Limited, was provided to Paterson for review. The property boundary appears the same as that identified on the current City of Ottawa electronic mapping website. A copy of the plan, which shows the boundaries of the Phase I property, is provided in Appendix 1.



4.2 Environmental Source Information

Environment Canada

A search of the National Pollutant Release Inventory (NPRI) was conducted electronically on November 17, 2015. The subject site was not listed in the NPRI database. No properties within the 250 m Phase I study area were listed in the NPRI database.

PCB Inventory

A search of national PCB waste storage sites was conducted. The subject property is not registered as a PCB waste storage site. No properties within the Phase I study area were listed as PCB waste storage sites.

Ontario Ministry of the Environment and Climate Change (MOECC) Instruments

A request for information was submitted to the MOECC Freedom of Information office, for information with respect to Certificates of Approval, Permits to Take Water, Certificates of Property Use or any other similar MOECC issued instruments for the site. The MOECC response had not been received at the time this report was issued; an addendum letter will be provided upon receipt if pertinent information is identified. A copy of the MOECC correspondence to date, is provided in the Appendix.

MOECC Coal Gasification Plant Inventory

The Ontario Ministry of the Environment document titled "Municipal Coal Gasification Plant Site Inventory, 1991" was reviewed to reference the location of former plants with respect to the subject site. No coal gasification plant sites were identified within the Phase I study area.

MOECC Incident Reports

A request was submitted, during the previous Phase I-ESA, to the MOECC Freedom of Information office for information with respect to records concerning environmental incidents, orders, offences, spills, discharges of contaminants or inspections maintained by the MOECC for the site or adjacent properties. The MOECC response had not yet been received at the time this report was issued; an addendum letter will be provided upon receipt should pertinent information be identified.





A copy of the MOECC correspondence to date, is provided in the Appendix.

MOECC Waste Management Records

A request was submitted to the MOE Freedom of Information office for information regarding waste management records within the files maintained by the MOE. Applicable information of current and historical waste storage locations, waste generators and waste receivers pursuant to Regulation 347 of the Revised Regulations of Ontario, 1990 (O.Reg.347) was considered in this review. The MOECC response had not yet been received at the time this report was issued. An addendum letter will follow. A copy of the MOECC correspondence to date, is provided in the Appendix.

MOE Submissions

A request was submitted to the MOECC Freedom of Information office for information regarding reports related to environmental conditions which are expected to have been submitted to the MOECC. The MOECC response had not been received at the time this report was issued. Should the response provide pertinent information regarding the subject land, an addendum letter will follow. A copy of the MOECC correspondence to date, is provided in the Appendix.

Ontario Ministry of the Environment and Climate Change (MOECC) Notices and Instruments

A search of the MOECC Brownfields Environmental Site Registry was conducted as part of this assessment, for the subject site and properties located within the Phase I study area. There are no records of site condition (RSC) listed in the registry, for the subject site or for properties within the 250 m Phase I ESA study area.

MOECC Waste Disposal Site Inventory

The Ontario Ministry of Environment and Climate Change document entitled "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. Based on this document, there are no active or closed waste disposal sites within 2 km of the subject property. The Carp Road landfill is located more than 2.5 km north of the subject land and is not considered to represent an environmental concern.



Areas of Natural Scientific Interest (ANSI)

According to the Ministry of Natural Resources' (MNR) electronic mapping website, woodland and an evaluated wetland is present to the north of the site across Hazeldean Road and an unevaluated wetland is present to the south east of the site. There are however, no areas of natural and scientific interest on the subject property or within the Phase I study area.

Technical Standards and Safety Authority (TSSA)

The TSSA, Fuels Safety Branch in Toronto was contacted, on November 17, 2015, to inquire about current and former underground storage tanks, spills and incidents for the site and neighbouring properties with potential environmental concerns. According to the TSSA records search, there are four active underground storage tanks (USTs) and cylinder exchange facility at the retail fuel outlet addressed 6061 Hazeldean Road, approximately 45 m north of the subject site. A copy of the TSSA response is provided in Appendix 2.

City of Ottawa Old Landfill Document

The document entitled "Old Landfill Management Strategy, Phase I - Identification of Sites, City of Ottawa", prepared by Golder, was reviewed. No former landfills are located within or in the immediate vicinity of the Phase I study area.

City of Ottawa Historic Land Use Inventory

On November 18, 2015, a requisition form was sent to the City of Ottawa to request information from the City's Historical Land Use Inventory (HLUI 2005) database for the subject property.

According to the response dated December 3, 2015, the Solid Waste Services Branch notes that the subject property is within 4.5 km of a waste management facility located at 106 Westhunt Road and within 3km of a waste management facility located at 2301 Carp Road. Based on the distances of the waste disposal facilities from the subject site, they are not considered to represent areas of potential environmental concern on the subject property.



A search of the HLUI database revealed that there are no activities associated with the subject property, however four activities were identified within 50 m of the Phase I property. These activities are listed in Table 2 below. The distances and orientations with respect to the site listed in Table 2 are based on depicted locations in the overview map attached by the City. A copy of the City's response has been included in Appendix 2.

Table 2 City of Ottawa HLUI Database							
Address Name / Activity		Distance and Orientation from Site	Potentially Contaminating Activity (PCA) (Y/N)				
Stittsville Main	Stittsville Main Street						
1224 Ottawa-Carleton District School Board, Central Depot		25 m southeast	Υ				
Hazeldean Roa	Hazeldean Road						
6176-6178 Province of Ontario Ministry 35 m west Y of Transportation							
6176	Gus's Antiques	35 m west	N				
6061	Unnamed Quarry	45 m northeast	Υ				

The OCDSB facilities department is considered to be a PCA, however it is not considered to represent an APEC on the subject site based on the distance of the building structures from the subject property of over 60 m. No concerns were noted on the portion of the OCDSB land situated closer to the site, during the historical portion of the assessment or at the time of the site visit.

The property identified as Gus's Antiques is not considered to pose a concern to the site, based on the retail nature of the activity. A review of aerial photos covering the property at 6061 Hazeldean Road did not identify a former quarry. This is considered to be an error in the HLUI database. However, this property was developed with a retail fuel outlet at some time between 2007 and 2008 and is considered to be a PCA.



4.3 Physical Setting Sources

Air Photo Research

Historical air photos were reviewed for the subject property and adjacent sites. A summary of our findings is presented below.

1945

The subject site and neighbouring lands are predominantly vacant at this time. Hazeldean Road is present to the south of the subject site at this time. Residential dwellings can be seen on the north side of Hazeldean Road, just east of Carp Road and south of the site, east of Stittsville Main Street.

1963

Hazeldean Road has been realigned to the north of the subject property, while Stittsville Main Street has been realigned to the east of McCooeye Lane, formerly an extension of Main Street. Hazeldean Road and Stittsville Main Street appear in their current configuration at this time. Neil Avenue (formerly Hazeldean Road in the previous photograph) is present immediately south of the site.

The subject site has been developed with an apparent residential dwelling on the southwestern portion of the site. A small structure, possibly associated with the use of the site by the MTO, is situated on the central portion of the site and the land immediately adjacent to the structure has been stripped of vegetation. Otherwise the site remains unchanged.

A small parcel of vacant land is present east of the site and the land to the south, across Neil Avenue is also vacant. Further to the south, an apparent commercial property is under development. Additional dwellings have been constructed southeast of the site.

1970

No significant changes have been made to the subject site. Neil Avenue has been realigned at the Stittsville Main Street intersection. Development of the commercial property further south of the property has been completed with the undeveloped portion used for storage of vehicles. Additional residential dwellings are present west and southwest of the site, along both sides of Neil Avenue. No other significant changes have been made to the remainder of the surrounding properties.





1976

(City of Ottawa e-map) An addition appears to have been made to the dwelling on the western portion of the subject site. A larger, commercial structure has been constructed between the dwelling and the smaller commercial structure seen in the previous photo and the majority of the eastern portion of the site has been stripped of vegetation. No other significant changes have been made to the subject property. Adjacent properties to the north and east remain unchanged. A small parcel of the treed land immediately west of the site has been paved. Further west, a residential dwelling is now present as well as what appear to be two warehouses or commercial structures. The commercial property to the south has been redeveloped with one of the existing structures and the parking area as been expanded to the remainder of the site.

1984

The easternmost residential building on the subject site has been demolished. The ground surface on-site appears to be predominantly asphalt or gravel at this time. The commercial property to the south has been developed with an additional structure and the vehicles seen in the previous photograph are no longer present. Additional structures suspected to be associated with the former flea market, are now present on the land west of the site. The property to the northwest has been cleared of vegetation and appears to have had some fill placement.

1999

Vegetation on the eastern most portion of land appears to have been cleared. No other significant changes appear to have been made to the subject site or neighbouring properties.

2002

(City of Ottawa e-map) A small structure, similar to a residential dwelling, and a gravel laneway are present on the eastern most portion of the site. No other significant changes have been made to the subject property. The land adjacent to the east appears to have been landscaped and a small structure is present. A portion of the treed land to the northeast of the site, across Hazeldean Road, has been cleared. Otherwise, no apparent changes have been made to the adjacent properties.





2007

(City of Ottawa website) The westernmost structure is no longer present on site. Otherwise no significant changes have been made to the subject property. The flea market buildings, with the exception of one small structure, have been removed from the adjacent property to the west. Three small storage structures are now present on the property to the south, across Neil Avenue. The land northwest of the site has been stripped of vegetation and appears to be under construction. No other significant changes appear to have been made to the adjacent or neighbouring properties.

2014

(City of Ottawa website) The subject structures identified in the previous photographs are no longer present on the subject property, although the foundation of the former industrial building (35 Neil) remains present. The residential dwelling addressed 45 Neil Avenue is no longer present on the adjacent property to the west. The property to the northwest of the site has been developed for commercial purposes, with a retail fuel outlet located at the northwest corner of Stittsville Main Street and Hazeldean Road.

Laser copies of selected aerial photographs reviewed are included in Appendix 1 following the body of this report.

Topographic Maps

Topographic maps were obtained from Natural Resources Canada - The Atlas of Canada website. The topographic maps indicate that the regional topography in the general area of the subject site slopes downward to the northeast. There are no bodies of water on the subject property or within the Phase I study area. Poole Creek located approximately 700 m southeast of the subject property, drains in a northeasterly direction to the Carp River, approximately 3.2 km northeast of the site.

No environmental concerns were identified on the topographic mapping. An illustration of the referenced topographic map is present on Figure 2 - Topographic Map following the body of 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, "where the land is rarely more than 150 m above sea level, except for the Monteregion Hills, which consist of intrusive igneous rocks."

Geological Maps

The Geological Survey of Canada website on the Urban Geology of the National Capital Area was consulted as part of this assessment. Based on the information from NRCAN, bedrock in the area of the site consists of limestone of the Bobcaygeon formation. Overburden on the western portion of the site is negligible, while organic deposits (peat, muck, marl) are reported to be present on the eastern portion at depths up to 5 m below ground surface.

Water Well Records

A total of 24 well records for the Phase I study area were obtained from the MOECC website. Two of the 24 well records were for potable wells located on the Phase I property. These wells were associated with a residential dwelling (37 Neil Avenue, 1957) and a 'workshop' (possibly the MTO structure based on the date of installation, 1967) and were installed in the limestone bedrock at depths of 33 and 23 m below ground surface, respectively.

With one exception, the remaining well records were also for potable wells associated with residential properties. According to the well records, a potable well was installed on the property to the south of the site, across Neil Avenue, which was occupied by a "service station-garage" at the time. In general, the wells in the Phase I study area were installed in the grey limestone bedrock at depths ranging from 6 to 160 m, although the depths were generally from 75 to 100 m below grade.

Copies of the well records are provided in Appendix 2.





Fill Materials

The remedial excavation conducted in September of 2005, at the location of the former tank nest adjacent to the south of the existing foundation (formerly 35 Neil), was backfilled upon completion of the remediation activities with approximately 15 cubic metres of clean, imported material.

Granular material is present over the eastern portion of the site. The very eastern most portion of the site appears to have been slightly raised at the location of the former residential/commercial structure (1 Neil Avenue). No other signs of fill material were noted on the Phase I property or the neighbouring lands within the Phase I study area.

During the Phase II-ESA conducted in conjunction with the Phase I-ESA, fill material was identified on the eastern portion of the site. The fill material generally consisted of brown silty sand gravel with traces of clay and/or organics. No deleterious materials were identified in the fill.

Water Bodies and Areas of Natural and Scientific Interest (ANSI)

No water bodies are located within the 250 m Phase I-ESA study area. As dicussed above, Poole Creek is the closest body of water, situated approximately 700 m southeast of the subject site. There are no areas of natural and scientific interest on the subject property or within the study area.

5.0 INTERVIEWS

As part of the historical portion of the Phase I-ESA, Mr. Allan Jackson, part owner and developer of the land, was interviewed by email on November 18, 2015. Mr. Jackson, who has recently become involved with the subject land, was aware of no past or current potential environmental concerns pertaining to the site or surrounding properties, with the possible exception of the retail fuel outlet recently constructed to the northeast of the subject property.





Mr. Hal Raycroft, the previous property owner, was interviewed in person on December 3, 2015 and again by phone on December 9, 2015. The subject land was in Mr. Raycroft's family for approximately 30 years. During this time the land was operated as a flea market. Prior to the use as a market, Mr. Raycroft indicated that the former building addressed as 35 Neil Avenue was occupied by Instronics Ltd. To the knowledge of Mr. Raycroft, aircraft blackboxes were manufactured or assembled on site.

When questioned about the buildings on either side of the former Instronics building, Mr. Raycroft indicated that the property to the west (37 Neil Avenue) was occupied by a restaurant. The restaurant was reportedly heated with furnace oil stored in an aboveground storage tank (AST) located on the interior of the subject structure. The tank was removed in the early 1980's when the heating source was replaced by propane. According to Mr. Raycroft, the building to the east had been a Ministry of Transportation shed possibly used for the storage of salt or sand.

6.0 SITE RECONNAISSANCE

6.1 General Requirements

The site assessment was carried out on November 22, 2015, by personnel with the the Environmental Department of Paterson Group. The weather conditions were clear with a temperature of 7°C. In addition to the site, the uses of neighbouring properties within the Phase I study area were also observed, from publicly accessible areas, at the time of the site visit.

6.2 Specific Observations at the Phase I Property

Buildings and Structures

The subject property is currently vacant with no building structures, although the foundation of the former building addressed 35 Neil Avenue remains present on site. Locations of former structures are identified on Drawing: PE3699-1 - Site Plan.

Below Ground Structures

No below ground structures are present on the subject property.



Storage Tanks

No aboveground storage tanks (ASTs) or signs of underground storage tanks (USTs) were observed on the Phase I property at the time of the site visit. A cut in the asphalt was observed at the location of the former UST and soil remediation program, adjacent to the south of 35 Neil Avenue.

Potable Water Source

The subject property is situated within a municipally serviced area. Although not currently serviced, municipal services will be provided to the site upon development.

Underground Utilities

Based on service locates conducted for the subject property during a previous subsurface investigation, there are no underground utilities on the subject property.

Unidentified Substances

There were no unidentified substances on the subject property at the time of the site visit.

Current and Former Wells

There are currently no potable wells on the subject property. However according to the MOECC website, as discussed above, there were two potable wells previously installed on the site in the 1970's. One well, installed in 1957, serviced the residential dwelling/restaurant previously addressed as 37 Neil Avenue. According to the well record, the well installed in 1967 serviced a 'workshop', which possibly referred to the MTO structure, as the former building at 35 Neil Avenue was constructed in the 1970's.

Two monitoring wells were installed on the subject property during a previous subsurface investigation conducted by Paterson in 2012. One well is no longer present and is considered to have been destroyed during snow removal operations.





Ground Surface

The western portion of land is mostly asphalt covered, however a grassed area is present, at a slightly higher grade than the surrounding asphalt. A wooden retaining wall supports the northeastern corner of the grassed area.

The central portion of land is also asphalt covered with the exception of the concrete foundation of the former building at 35 Neil Avenue. Small areas of ceramic tile and vinyl tile remain present across the foundation.

The eastern portion of land is at a significantly lower grade than the remainder of the site. This portion of the site is largely covered with granular material, while the easternmost portion is covered with grass and trees.

Railway Lines

No railway lines were observed on the subject site or within the Phase I-ESA study area.

Potentially Contaminating Activities

No potentially contaminating activities were observed on the subject property at the time of the site visit.

6.3 Enhanced Investigation Property

On-site Operations

As previously noted, the former building addressed 35 Neil Avenue, located on the central portion of the property, was occupied by Instronics Ltd. Based on a review of the aerial photographs, the building was constructed some time between 1970 and 1976. Based on the Chain of Title prepared by Read Abstracts Jasmine Knowles sold a portion of the subject property to Instronics in June of 1969, however a deed registered in December of 1969 identifies the property being returned to Jasmine Knowles. A third record shows a deed from Jasmine Knowles to Instronics again in August of 1977. The next transaction indicates a power of sale in 1979, from Ontario Development Corporation to Stittsville Hotels Ltd. Based on the available information, it is considered likely that Instronics occupied the site from approximately 1976 through 1979.

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According to Mr. Hal Raycroft, whose family purchased the subject land and adjacent property to the west in 1984, operations at the former Instronics building included the assembly or possible manufacturing of aircraft black boxes. Under ownership of Kavanagh Family Investments who operated the site as the Stittsville Flea Market for approximatley 30 years, the building was used mainly for storage.

Hazardous Materials Used or Stored at the Phase I-ESA Property

No hazardous materials are currently used or stored at the Phase I-ESA property. A representative from Paterson did however complete an interior inspection of the former building at 35 Neil Avenue, during a past environmental assessment in 2006. At this time, there were no hazardous materials observed on the subject property. It is possible that limited cleaning solvents and small quantities of oils or lubricants were kept on the property when occupied by Instronics. Given the nature of the former operations in conjunction with the small size of the building, it is considered unlikely that significant quantities of hazardous materials were kept on site.

Products Manufactured at the Phase One Property

Products are not currently manufactured at the Phase I property. It has been reported that aircraft black boxes were manufactured on site (former parcel addressed 35 Neil Avenue).

By-Products and Wastes

Waste is not currently generated on site. Given the nature of the former on-site operations at 35 Neil Avenue, waste solvents and lubricants may have been generated.

Raw Materials Handling Storage Locations

Raw materials are not currently stored on site. Raw materials are not expected to have been stored at 35 Neil Avenue in the past, given the size of the former building and the on-site operations which included the assembly of aircraft black-boxes. However according to Mr. Kavanagh, salt may have been stored in a former MTO storage shed located immediately east of the former Instronics building.



Drums, Totes and Bins

No drums, totes or bins were observed on the subject property at the time of the site visit. No information pertaining to past drums, totes or bins was available.

Oil-Water Separators

There are no existing or former oil-water separators on the Phase I property.

Vehicle and Equipment Maintenance Areas

There are no current or former vehicle and equipment maintenance areas on the Phase I property.

On-Site Spills

Based on a review of the historical information in combination with personal interviews and observations made during a previous investigation, there have been no significant surficial on-site spills. There was however a small spill from an underground storage tank previously situated adjacent to the south of the former building at 35 Neil Avenue.

The UST was removed and the impacted soil was remediated in 2005, under the supervision of Paterson personnel.

Liquid Discharge Points

Wastewater is not currently generated on the subject property. Based on a previous report, the former structure at 1 Neil Avenue, on the easternmost portion of the site discharged to a buried septic tank on site. It is unknown if this tank remains present. It was also noted in the previous reports that the residential dwellings adjacent to the west of the site discharged to private septic systems. It is therefore considered likely that the former structures at 35 and 37 Neil also discharged to private septic systems. No evidence of former septic tanks or beds was identified at the time of the site visit.

Hydraulic Lift Equipment

During the past site visit (2006) there was no evidence of hydraulic lift equipment within the building at 35 Neil. Hydraulic lift equipment is not considered to have been present at any other location on site based on the past uses of the property.





6.4 Phase I-ESA Study Area

An inspection of the neighbouring properties within the 250 m Phase I-ESA study area, was conducted from publicly accessible roadways at the time of the site assessment. Immediately adjacent properties consist of the following:

North - Hazeldean Road, followed by vacant, treed land and a commercial plaza;
South - Neil Avenue followed by Ottawa Carleton District School Board (OCDSB)
Facilities Department (1224 Sittsville Main Street);
East - landscaped area followed by Stittsville Main Street; and
West - vacant commercial land.

The OCDSB facilities department is considered to be a potentially contaminating activity (PCA), however based on the distance of the maintenance building from the subject property (over 60 m), it is not considered to represent an APEC on the subject site.

A retail fuel outlet is present at the northwest corner of the intersection of Hazeldean Road and Stittsville Main Street, approximately 40 m northeast of the subject property, and is considered to be a PCA resulting in an APEC on the subject property.

No other PCAs were identified within the Phase I study area.



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 ownership and other observations dating back to the first known date of ownership of the site.

Table 3: Land Use History						
Year	Name of Owner	Description of Property Use	Property Use	Other Observations from Aerial Photographs, Fire Insurance Plans, Etc.		
Entire propert	y prior to being spl	it into separate P	INs			
Patent dated March 14, 1803	Joshua Bradley	Undeveloped Land	Agricultural or other use	The earliest air photo available, from 1945, shows that the land is undeveloped and partially		
1803-1914	John Bradley	Undeveloped land	Agricultural or other use	forested.		
1914-1921	Joshua Bradley	Undeveloped land	Agricultural or other use			
1921-1957	John C. Bradley	Undeveloped land followed by apparent residential and commercial	Residential, Commercial	The 1963 air photo reviewed shows an apparent residential dwelling (37 Neil Avenue) on the western portion of the property and what was reported to have been an MTO storage shed on the central portion of the property. The 1976 aerial		
1957-1963	Victor J. Tapp and Theresa J. Tapp	Residential and Commercial	Residential, Commercial			
1963- June of 1977	Jasmine Knowles			shows a larger structure (35 Neil Avenue) between the dwelling and the MTO shed.		



Table 3: Lan	Table 3: Land Use History Continued						
Year	Name of Owner	Description of Property Use	Property Use	Other Observations from Aerial Photographs, Fire Insurance Plans, Etc.			
PIN 0013 (We	stern portion of Pha	se I property)					
1977-1984	Alan Sharpley	Residential	Residential	No changes to the original dwelling seen in the 1963 aerial, were noted in the 1970 or 1976 aerials, although an addition north of the original structure was noted in 1976.			
1984-2004	Kavanagh Realty (1982) Limited and Lori Kavanagh	Restaurant/flea market	Commercial	An addition was made to the west of the original structure in the 1984 aerial. According to Mr. Raycroft, this property was operated as a restaurant under Kavanagh's ownership, in conjunction with the Stittsville Flea Market. Additional structures associated with the restaurant and flea market were noted in a 1991 aerial.			
2004-2006 (change of name)	Stittsville Flea Market Inc.	Restaurant/flea market	Commercial	By 2005 the main restaurant building/former dwelling had been removed from the site and by 2007 this portion of the Phase I property was completely vacant.			
PIN 0014 (Cer	PIN 0014 (Central portion of Phase I property)						
1977-1979	Instronics Limited	Reported manufacturing of aircraft black boxes	Industrial	Structure formerly addressed 35 Neil Avenue was present in 1976 aerial.			



Table 3 Cont	Table 3 Continued: Land Use History Continued						
Year	Name of Owner	Description of Property Use	Property Use	Other Observations from Aerial Photographs, Fire Insurance Plans, Etc.			
1979-1984 (power of sale by Ontario Development Corporation)	Stittsville Hotels Limited	Vacant Industrial	Industrial	No changes to this parcel of land in 1984 aerial.			
1984-2004	Kavanagh Realty (1982) Limited	Stittsville Flea Market	Commercial	In a 1991 aerial, temporary sales stalls associated with the flea market can be seen on the property as well as numerous customer vehicles. In a 1999 aerial stalls are no longer present.			
2004-2006 (change of name)	Sittsville Flea Market Inc.	Stittsville Flea Market (closed in December of 2004); vacant	Commercial	A 2009 aerial shows the structure was demolished and the land has remained vacant since (2011 and 2014 aerials).			
PIN 0015 (Eas	tern portion of Pha	se I property)					
1948-1987 (expropriated from John C. Bradley)	The Department of Highways of Ontario	Reported structure and yard, used for storage of sand and/or salt by the province.	Industrial	Storage structure and associated yard (small gravel covered area) present in 1963 aerial. Possibly a second structure present in 1970 aerial; not seen in subsequent 1976 photo. In 1976 photo, remainder of parcel has been surfaced with gravel. Structures no longer present in 1984.			
1987-2004	Bounty Real Estate Investments Inc.	Used as parking lot for Stittsville Flea Market	Commercial	Use as lot observed in 1991 aerial; eastern most portion of site developed with commercial cottage.			



Table 3 Continued: Land Use History						
Year	Name of Owner	Description of Property Use	Property Use	Other Observations from Aerial Photographs, Fire Insurance Plans, Etc.		
2004-2006	Kavanagh Family Investments Ltd.	Unused	Commercial	No changes in 2005 aerial.		
Title Merged (part of PIN 0085)					
2006-2009	2074246 Ontario Inc.	Unused	Commercial	Commercial cottage relocated onto gravel lot to		
July 9, 2009 - Canril July 17, 2009 Corporation				the west, according to 2008 aerial and removed from property altogether in		
2009-2015	Kavanagh Family Investments Ltd.			2009. No significant changes in 2011 or 2014 aerials.		

Kavanagh Family Investments Ltd. is the last registered owner, however 2062915 Ontario Inc. and 2073945 Ontario Inc. have recently purchased the land.



7.2 Areas of Potential Environmental Concern and Potentially Contaminating Activities

Current and historical potentially contaminating activities identified on the subject site and adjacent properties, and which are considered to pose a potential environmental concern to the subject property, are provided in Table 4 below. PCAs were identified as per Column A of Table 2, from Ontario Regulation 153/04 as amended by Ontario Regulation 296/11.

Table 4: Areas of Potential Environmental Concern							
Area of Potential Environmental Concern (APEC)	Location of PEC on Phase One Property	Potential Contaminating Activities (PCA)	Location of PCA (on- site/off- site)	Contaminants of Potential concern (CPC)	Media Potentially Impacted (Groundwater, Soil and/or Sediment)		
Former domestic heating oil AST at 37 Neil Avenue (APEC 1)	Western portion of site (PIN 04458- 0013)	Item 28 - Gasoline and Associated Products Stored in Fixed Tanks	on-site	PHCs BTEX/PHCs	Soil Soil and Groundwater		
Former electronics assembly or manufacturing (Instronics) at 35 Neil Avenue and former heating oil UST (APEC 2)	Central portion of site (PIN 04458- 0014)	Item 19 - Electronic and Computer Equipment Manufacturing Item 28 - Gasoline and Associated Products	on-site	VOCs and PHCs none - PCA has been addressed	Soil and Groundwater Soil and Groundwater meet MOECC Table 3		
		Stored in Fixed Tanks			standars		
Former MTO storage shed and yard - possible salt storage (APEC 3)	Eastern portion of site (PIN 04458- 0015)	Item 48 - Salt Manufacturing, Processing and Bulk Storage	on-site	salt (SAR, ECE, sodium and chlorides)	Soil and/or Groundwater		



Table 4 Continued: Areas of Potential Environmental Concern						
Area of Potential Environmental Concern (APEC)	Location of PEC on Phase One Property	Potential Contaminating Activities (PCA)	Location of PCA (on- site/off- site)	Contaminants of Potential concern (CPC)	Media Potentially Impacted (Groundwater, Soil and/or Sediment)	
Retail fuel outlet (APEC 4)	Northeast corner of site	Item 28 - Gasoline and Associated Products Stored in Fixed Tanks	off-site	BTEX and PHCs	Groundwater	
Fill material of unknown quality (APEC 5)	Eastern portion of site (PIN 0015)	Item 30 - Importation of Fill Material of Unknown Quality	on-site	Metals	Soil	

The former AST located at 37 Neil Avenue was reportedly removed from the property in the early 1980's. Although there are no reported incidents regarding the tank and impacts are not suspected, the AST represents an APEC on the subject property (APEC 1).

The former use of the building addressed 35 Neil Avenue by Instronics Ltd., for the reported assembly or manufacturing of aircraft black boxes poses a concern to the subject property (APEC 2). This building was also formerly heated with furnace oil stored in an underground storage tank (UST) adjacent to the south of the building. The former UST is included as an APEC with the former use of the building (in accordance with O.Reg.153/04), however a soil remediation program was conducted upon the removal of the UST in 2005. Groundwater monitoring was subsequently conducted in 2005 and again in 2012 at which time concentrations were in compliance with the current MOECC Table 3 standards. As a result, the former UST does not represent a current APEC that requires further investigation.





The former use of the eastern portion of the site by the Ministry of Transportation (MTO) for the reported storage of salt, is considered to represent an APEC on the eastern portion of the site (APEC 3). The retail fuel outlet situated northeast of the site across Hazeldean Road represents an APEC on the northeastern portion of the site (APEC 4). Fill material identified on the eastern portion of the site during the concurrent subsurface investigation, has also been identified as an APEC (APEC 5).

7.3 Conceptual Site Model

Geological and Hydrogeological Setting

Based on the information from NRCAN bedrock in the area of the site consists of limestone of the Bobcaygeon formation. Overburden on the western portion of the site is negligible, while organic deposits (peat, muck, marl) are reportedly present on the eastern portion at depths up to 5 m below ground surface. According to data collected during the concurrent subsurface investigation however, a layer of fill material is present over the site, underlain by glacial till and/or limestone bedrock.

Contaminants of Potential Concern

Based on the APECs identified in Table 4 above, the following Contaminants of Potential Concern (CPCs) have been identified:

Volatile Organic Compounds (VOCs), including BTEX - this suite of parameters includes chlorinated solvents and degradation products (Tetrachloroethylene, Trichloroethylene, Dichloroethylenes, and Vinyl Chloride) associated with degreasing, as well as chloroform, a byprodcut of chlorine disinfection of municipally-treated water. Also included with VOCs are BTEX (benzene, toluene, ethylbenzene and xylenes) which is a suite of VOCs associated in part with gasoline and diesel fuel. BTEX was selected based on the use of heating oil on-site and the retail fuel outlet located across Hazeldean Road. VOCs were selected due to the use of the building at 35 Neil Avenue for electronics manufacturing as it is possible that solvents and degreasing agents were associated with the manufacturing process. BTEX and VOC may be present in the soil and also dissolved in the groundwater beneath the site.

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- Petroleum Hydrocarbon Fractions 1 through 4 (PHC F1-F4) this suite of parameters encompasses gasoline (Fraction 1), diesel and fuel oil (Fraction 2) and heavy oils (Fractions 3 and 4). PHCs F1-F4 were selected as CPCs for the Phase I property based on the former on-site fuel tank, the possible use of grease and lubricants associated with former on-site manufacturing, and the retail fuel outlet located across Hazeldean Road. Gasoline and diesel are commonly used motor vehicle fuels. PHCs may be present in the soil matrix, sorbed to soil particles, as well as in free or dissolved phase in the groundwater system. PHCs are generally considered to be LNAPLs, light non-aqueous phase liquids, indicating that when present in sufficient concentrations above the solubility limit, they will partition into a separate phase above the water table, due to their lower density.
- Salt suite of parameters including Electrical Conductivity, Sodium Adsorption Ratio, Chloride and Sodium. These parameters were selected due to the possible use of the eastern portion of the site for the bulk storage of salt. The MOECC provides standards for Electrical Conductivity and Sodium Adsorption Ratio in the soil and Chloride and Sodium in the groundwater.
- Metals suite of parameters encompasses heavy metals and was selected as a CPC due to the presence of fill material on the site. Due to the non-leaching nature of metals, they are not expected to be present in the groundwater.

Existing Buildings and Structures

There are currently no buildings or structures on the subject property, however the concrete foundation of the former structure at 35 Neil Avenue remains present on site as shown on Drawing: PE3699-1 - Site Plan. The site plan also depicts the former locations of the residence/restaurant at 37 Neil Avenue, the former MTO storage shed east of 35 Neil Avenue, and the former commercial cottage at 1 Neil Avenue.

The former building at 37 Neil Avenue was originally heated with furnace oil stored in an aboveground storage tank (AST) which was removed in the early 1980's. The structure was reported to have subsequently been heated with propane. The former structure at 35 Neil Avenue was originally heated with furnace oil stored in an underground storage tank (UST) adjacent to the south wall of the structure. The structure was subsequently heated with natural gas-fired equipment. The former structure at 1 Neil Avenue was heated with electric baseboard heaters. Approximate locations of the former structures are also shown on Drawing: PE3699-1 - Site Plan.

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Water Bodies

There are no bodies of water located within the 250 m Phase I study area. Poole Creek is the closest body of water, situated approximately 75 m southeast of the subject site.

Areas of Natural and Scientific Interest (ANSI)

No ANSIs were identified on the subject property or within the Phase I study area.

Drinking Water Wells

According to the Ministry of the Environment's well record database, there are two well records for potable water wells on the subject site and 22 records for potable wells within the Phase I study area. The wells on the site serviced the former residential dwelling at 37 Neil Avenue and the former workshop at 35 Neil Avenue. The wells were installed in 1957 and 1967 respectively, to depths of 23 m and 33 m within the limestone bedrock.

The wells within the Phase I study area were installed for the purposes of domestic water and serviced private dwellings, with the exception of a well which serviced the service garage on property to the south of the site.

The Phase I study area has since been provided with municipal services. The subject property will be provided with municipal services upon development.

Groundwater Monitoring Wells

One (1) groundwater monitoring well is currently present on the subject property. The well was installed during the subsurface investigation carried out in March of 2012.

Neighbouring Land Use

Neighbouring land use in the Phase I study area was a combination of residential and commercial. A retail fuel outlet located at 6061 Hazeldean Road is considered to pose a potential concern to the subject property. The Ottawa-Carleton District School Board Facilities Department is situated south of the subject property. A service garage has been present on the southern portion of the property, closer to Stittsville Main Street, since the 1960s. Based on the distance of the garage building of over 60 m from the subject property, it is not considered to represent an APEC on the Phase I property.



Neighbouring land use is depicted on Drawing: PE3699-2 - Surrounding Land Use Plan.

Fill Material

Fill material was observed on the eastern portion of the site, from near surface to depths ranging from 0.1 to 3 m below ground surface and generally consisted of brown silty sand with gravel and at some locations traces of clay and organics. No deleterious materials were identified in the fill.

Potentially Contaminating Activities and Areas of Potential Environmental Concern

As per Column A of Table 2 outlined in Ontario Regulation 153/04 and amended by O.Reg. 279/11, potentially contaminating activities (PCAs) identified on the subject property and/or within the Phase I-ESA study area, include the following:

	Item 28: Gasoline and Associated Products Storage in Fixed Tanks (PCAs 1, 3 and 6);
	Item 19: Electronic and Computer Equipment Manufacturing (PCA 2); Item 27: Garages (PCA 7);
	Item 30: Importation of Fill Material of Unknown Quality (PCA 5); and Item 48: Bulk Storage of Salt (PCA 4).
	areas of potential environmental concern (APECs) are located on the subject rty and are as follows:
	APEC 1: Former heating oil AST at 37 Neil Avenue (PCA 1);
	APEC 2: Former manufacturing and former heating oil UST at 35 Neil Avenue (PCAs 2 and 3);
_ _ _	APEC 3: Historical use as storage by MTO (PCA 4); APEC 4: Possible impacts from offsite retail fuel outlet (PCA 6); APEC 5: Importation of fill material of unknown quality (PCA 5).

Phase I - Environmental Site Assessment



Vacant Commercial Property 6130 and 6150 Hazeldean Road - Ottawa

As previously discussed, the former UST (PCA 3) included in APEC 2 was addressed during previous investigations carried out by Paterson. The property located at 1224 Stittsville Main Street, south of the site, is occupied by the OCDSB facilities department and has historically been used for automotive service repairs (PCA 7). Based on the distance of the service building from the subject property (over 60 m) it is not considered to represent an APEC on the subject property.

The above noted APECs and PCAs are highlighted on Drawing: PE3699-1 - Site Plan and Drawing: PE3699-2 - Surrounding Land Use Plan, respectively.



8.0 CONCLUSIONS

Assessment

Paterson Group was retained by Mr. Allan Jackson of 2062915 Ontario Inc., to condcut a Phase I-Environmental Site Assessment for the properties addressed 6130 and 6150 (previously 6176) Hazeldean Road in the City of Ottawa (Stittsville), Ontario. The purpose of the Phase I-ESA was to research the past and current use of the site and study area and to identify environmental concerns with the potential to have impacted the subject property.

Historically, the property also included civic addresses along Neil Avenue. The western parcel of land (37 Neil Avenue), was originally used for residential purposes while the remainder of the site was vacant, undeveloped land. The eastern parcel was subsequently occupied by a Ministry of Transportation storage shed and associated yard, for the reported storage of salt and/or sand from the 1950's through the 1970's. The central portion of the site was developed with an industrial structure in the early 1970's (35 Neil Avenue). The building was occupied by Instronics Ltd. and reportedly used for the assembly and manufacturing of aircraft black boxes. Circa 1984, the entire subject property was purchased by Kavanagh Family Investments Inc. and along with the adjacent land to the west, was operated as the Stittsville Flea Market. The former residence at 37 Neil Avenue was operated as a restaurant by this time. In the 1990's the easternmost parcel of land was developed with a small structure referred to as a commercial cottage, which was used for both residential and commercial purposes. In 2004 the Stittsville Flea Market was closed and by 2009 no buildings remained onsite. The property has since been vacant and unused.

Based on the findings of the historical research in combination with the site visit, five on-site PCAs and one off-site PCA have resulted in four areas of potential environmental concern (APEC) on the subject property:

APEC 1: Former heating oil AST at 37 Neil Avenue (PCA 1);
APEC 2: Former manufacturing and former heating oil UST at 35 Neil Avenue
(PCAs 2 and 3);
APEC 3: Historical use as storage by MTO (PCA 4);
APEC 4: Possible impacts from offsite retail fuel outlet (PCA 6);
APEC 5: Importation of fill material of unknown quality (PCA 5).





The former heating oil UST at 35 Neil Avenue (PCA 3) was previously addressed during a soil remediation program and groundwater monitoring event in 2005 and a subsequent groundwater monitoring event in 2012, at which time no contaminant concentrations were identified above the method detection limits.

The OCDSB facilities department (PCA 7) located south of the site, across Neil Avenue, is not considered to pose a concern to the subject property based on the distance of the current maintenance building/former service garage from the site (over 60 m).

Conclusion

Based on the findings of the Phase I-ESA, it is our opinion that a **Phase II-ESA is** required for the subject property.



9.0 STATEMENT OF LIMITATIONS

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

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

This report was prepared for the sole use of 2062915 Ontario Inc. and 2073945 Ontario Inc. Permission and notification from 2062915 Ontario Inc., 2073945 Ontario Inc. and Paterson Group will be required to release this report to any other party.

Paterson Group Inc.

Karyn Munch, P.Eng.

Jayn Munch

Mark S. D'Arcy, P.Eng.





Report Distribution:

- 2062915 Ontario Inc. and 2073945 Ontario Inc. (2 copies)
- □ Paterson Group (1 copy)



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.

Environment Canada, Access to Information and Privacy Office.

PCB Waste Storage Site Inventory.

Provincial Records

MOE Freedom of Information and Privacy Office.

MOE Municipal Coal Gasification Plant Site Inventory, 1991.

MOE document entitled "Waste Disposal Site Inventory in Ontario".

MOE Brownfields Environmental Site Registry.

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

MNR Areas of Natural Significance.

MOE Water Well Inventory.

Municipal Records

City of Ottawa HLUI Records.

City of Ottawa electronic map.

Local Information Sources

Chain of Title - Read Abstracts

Plan of Survey, prepared by Stantec Geomatics Ltd. (September 28, 2006)

Previous Engineering Reports (Paterson Group Inc. (2005) and Paterson Group Inc. (2012))

Personal Interviews.

Public Information Sources

Google Earth

Google Maps/Street View

FIGURES

FIGURE 1 - KEY PLAN

FIGURE 2 - TOPOGRAPHIC MAP

DRAWING PE3699-1 - SITE PLAN

DRAWING PE3699-2 - SURROUNDING LAND USE PLAN

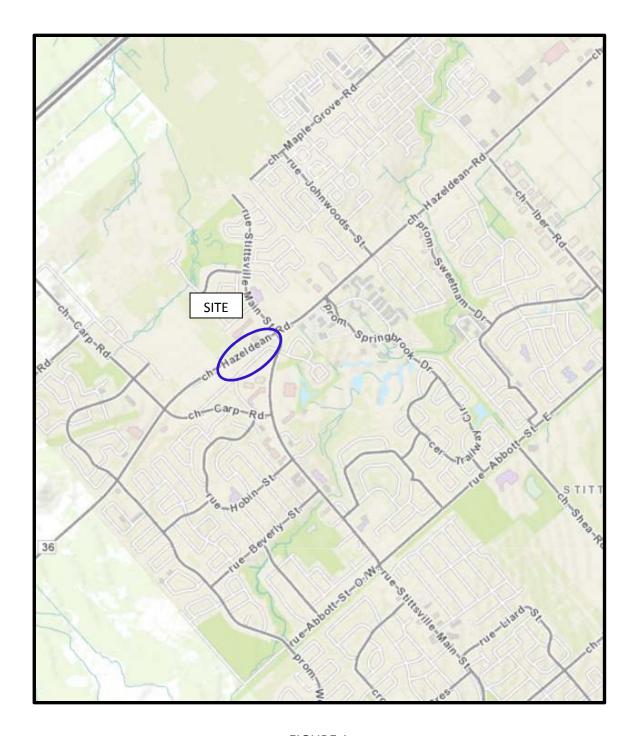


FIGURE 1
KEY PLAN

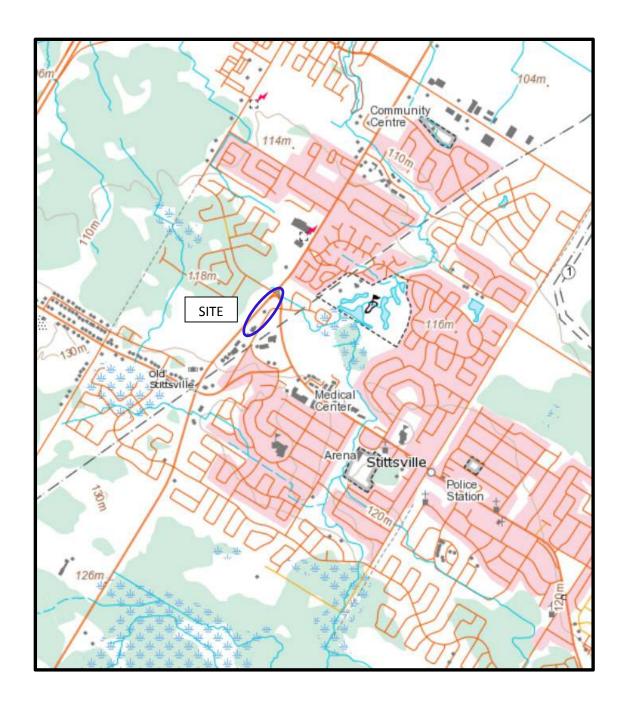
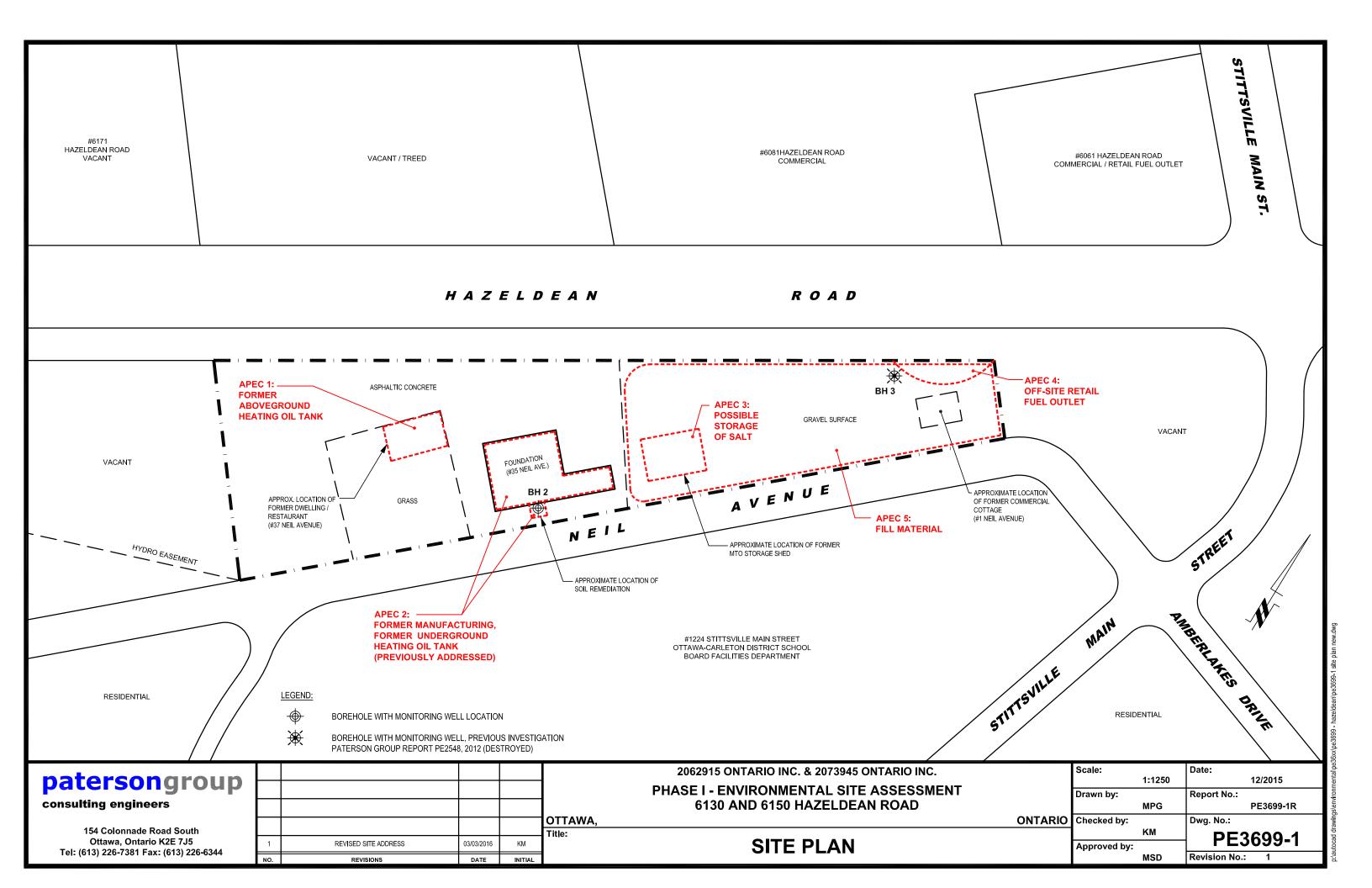
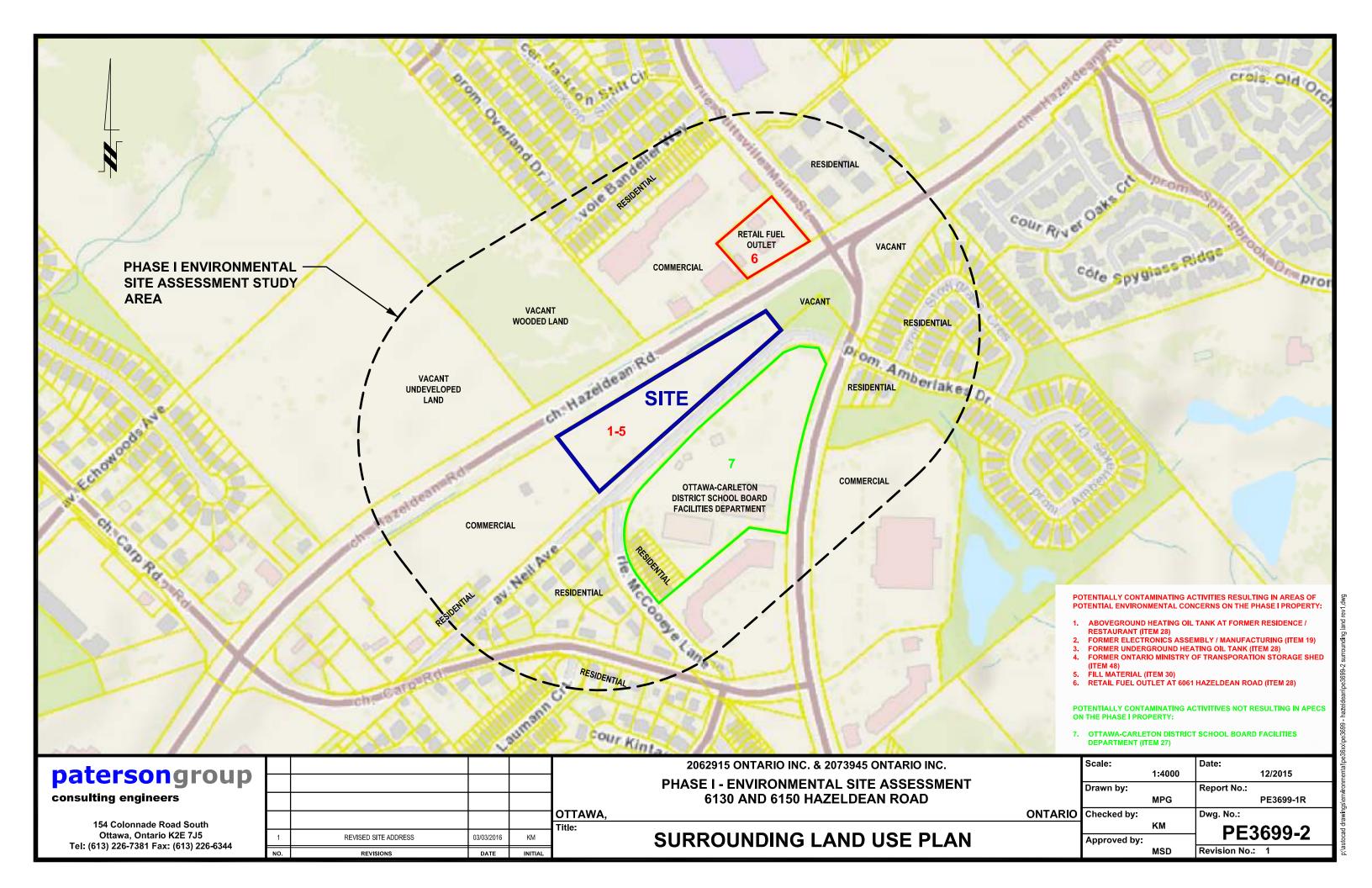


FIGURE 2
TOPOGRAPHIC MAP





APPENDIX 1

CHAIN OF TITLE

PLAN OF SURVEY

AERIAL PHOTOGRAPHS

SITE PHOTOGRAPHS



READ Abstracts Limited

331 Cooper Street, Suite 300, Ottawa, Ontario K2P 0A4 Email: search@readsearch.com

Tel.: 613-236-0664 Fax: 613-236-3677

ENVIRONMENTAL SEARCH

November 30, 2015

Paterson Group Attn: Karyn Munch

BRIEF DESCRIPTION OF LAND:

Part of Lot 24, Concession 12 Goulbourn, being Parts 1, 2, and 3 on 4R21452 PIN: 04458-0085 (part of)

LAST REGISTERED OWNER: KAVANAGH FAMILY INVESTMENTS LIMITED

CHAIN OF TITLE:

Patent dated May 14, 1803 To Joshua Bradley

Deed GB6820 registered March 27, 1914 From John Bradley to Joshua Bradley

Deed GB7688 registered May 31, 1921 From Joshua Bradley to Joshua E. Bradley

Deed GB7689 registered May 31, 1921 From Joshua E. Bradley to John C. Bradley

Deed GB11899 registered June 27, 1957 From John C. Bradley to Victor J. Tapp and Theresa J. Tapp

Deed ST366 registered February 8, 1963 From Victor J. Tapp and Theresa J. Tapp to Jasmine Knowles Deed CT106472 registered June 30, 1969 From Jasmine Knowles to Instronics Limited

Deed CT114928 registered December 30, 1969 From Instronics Limited to Jasmine Knowles

PIN 0013

Deed CT252873 registered August 9, 1977 From Jasmine Knowles to Alan Sharpley

Deed NS247056 registered July 3, 1984 From Alan Sharpley to Kavanagh Realty (1982) Ltd. And Lori Kavanagh

Name Change OC400265 registered November 2, 2004 From Kavanagh Realty (1982) Limited to Stittsville Flea Market Inc.

PIN 0014

Deed CT252869 registered August 9, 1977 From Jasmine Knowles to Instronics Limited

Power of Sale NS54479 registered June 1, 1979 From Ontario Development Corporation to Stittsville Hotels Limited

Deed NS247057 registered July 3, 1984 From Stittsville Hotels Ltd. To Kavanagh Realty (1982) Ltd.

Name Change OC400265 registered November 2, 2004 From Kavanagh Realty (1982) Limited to Stittsville Flea Market Inc.

PIN 0015

Expropriation Plan GB10069 registered April 7, 1948 From John C. Bradley to The Department of Highways of Ontario (Highway #15/#7)

Deed N374432 registered January 30, 1987 (Part of Highway #15/#7) From Her Majesty the Queen as Represented by the Province of Ontario to Bounty Real Estate Investments Inc.

Name Change OC416909 registered December 16, 2004 From Bounty Real Estate Investments Inc. to Kavanagh Family Investments Limited

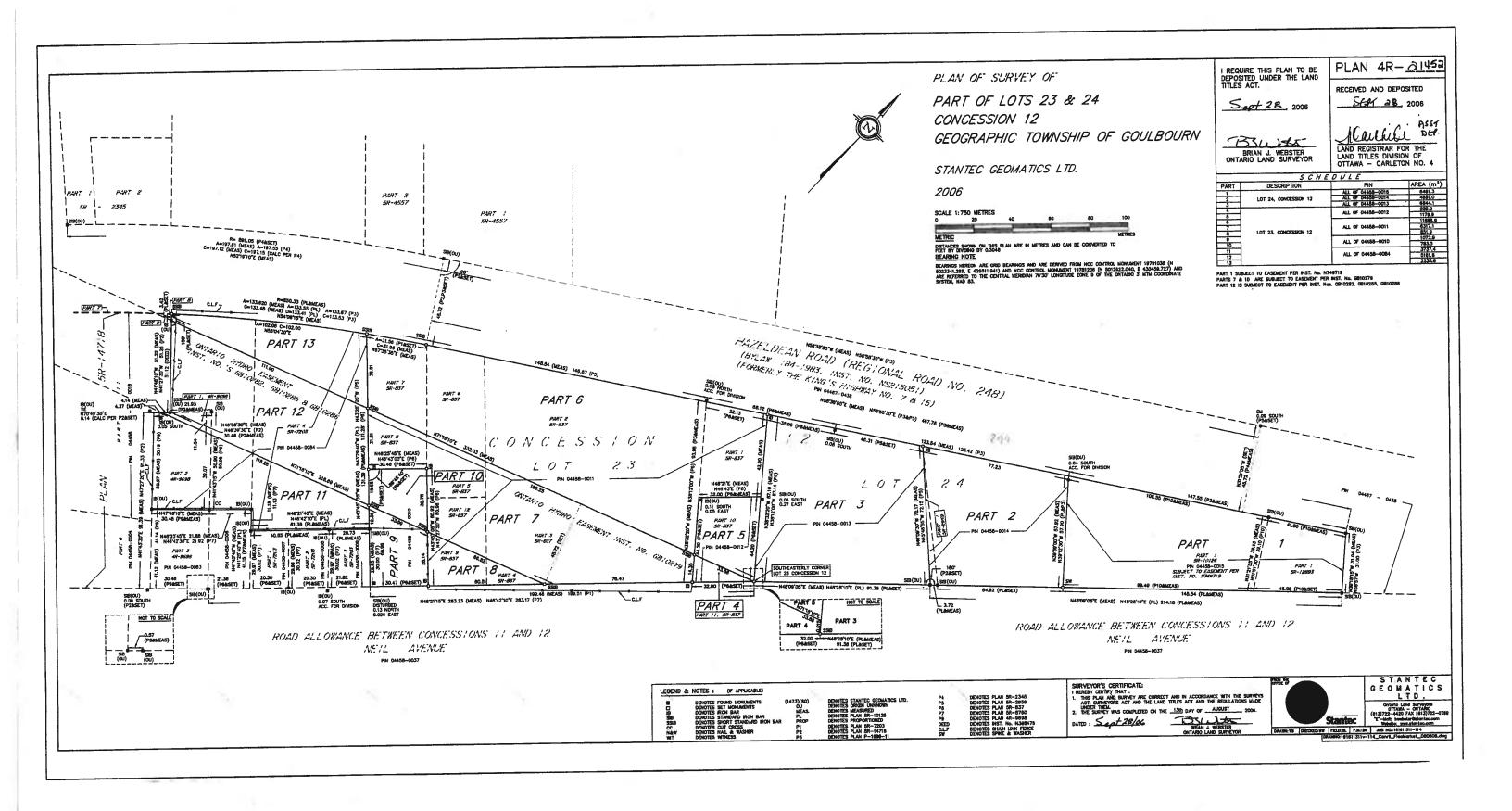
Title Merged now (part of) PIN 0085

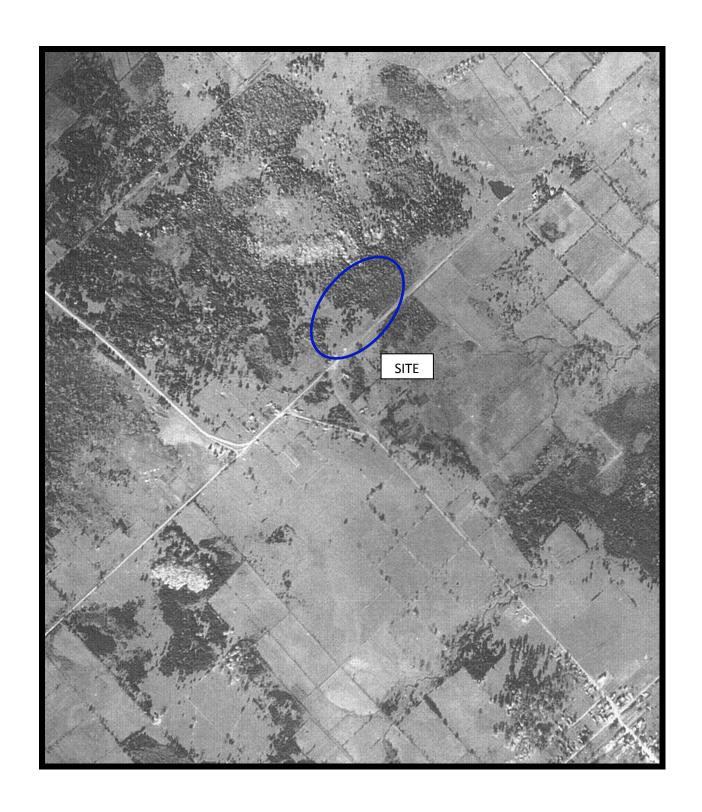
Deed OC650231 registered October 13, 2006 From Stittsville Flea Market Inc., Kavanagh Family Investments Limited, Lori Kavanagh, and Lori Anne Kavanagh to 2074246 Ontario Inc.

Name Change OC811803 registered December 28, 2007 From Stittsville Flea Market Inc. to Kavanagh Family Investments Limited

Deed OC1004714 registered July 9, 2009 From 2074246 Ontario Inc. to Canril Corporation

Deed OC1004714 registered July 17, 2009 From Canril Corporation to Kavanagh Family Investments Limited





AERIAL PHOTOGRAPH 1945

patersongroup -



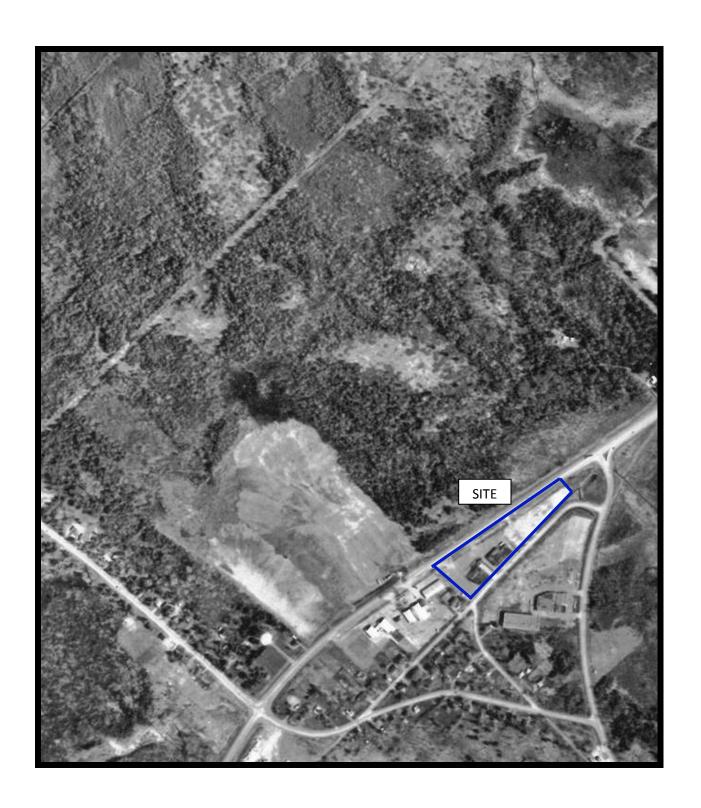
AERIAL PHOTOGRAPH 1963

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AERIAL PHOTOGRAPH 1970

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AERIAL PHOTOGRAPH 1984

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AERIAL PHOTOGRAPH 1999

patersongroup -

6130 and 6150 Hazeldean Road, Ottawa, ON



Photograph 1: View of eastern portion of the site, looking east-northeast. Picture shows retail fuel outlet located across Hazeldean Road.



Photograph 2: View of central portion of site, looking west. Photo shows area of former MTO storage shed and the location of the former dwelling/restaurant (raised grassed areas). The foundation of the former building at 35 Neil cannot clearly be seen.

6130 and 6150 Hazeldean Road, Ottawa, ON



Photograph 3: Looking southwest, photo illustrates foundation of former building at 35 Neil Avenue and the Ottawa-Carleton District School Board facilities department to the south.



Photograph 4: Photo illustrates northwest portion of the site and the adjacent vacant commercial property to the west.

Site Photographs

PE3699

6130 and 6150 Hazeldean Road, Ottawa, ON



Photograph 7: Looking north, view of adjacent commercial plaza to the north, across Hazledean Road.



Photograph 8: Looking northeast, photograph illustrates eastern property line and adjacent landscaped land to the east.

Site Photographs

PE3699

6130 and 6150 Hazeldean Road, Ottawa, ON



Photograph 9: View of residential dwellings to the south-southwest of the site, along McCooeye Lane and Neil Avenue.



Photograph 10: View from southwestern corner of site, looking southeast at OCDSB property south of the site.

APPENDIX 2

TSSA CORRESPONDENCE

CITY OF OTTAWA HLUI RESPONSE

MOECC WELL RECORDS

Ministry of the Environment and Climate Change

Freedom of Information and Protection of Privacy Office

12th Floor 40 St. Clair Avenue West Toronto ON M4V 1M2 Tel. (416) 314-4075 Fax. (416) 314-4285 Ministère de l'Environnement et de l'Action en matière de changement climatique

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

12° étage 40, avenue St. Clair ouest Toronto ON M4V 1M2 Tél.: (416) 314-4075 Téléc. I (416) 314-4285



November 20, 2015

Karyn Munch Paterson Group Inc. 154 Colonnade Road Ottawa, ON K2E 7J5

Dear Karyn Munch:

RE: Freedom of Information and Protection of Privacy Act Request
Our File # A-2015-06998, Your Reference PE3699

The Ministry is in receipt of your request made pursuant to the *Freedom of Information and Protection of Privacy Act* and has received your payment in the amount of \$5.00 (non-refundable application fee), along with your \$30.00 deposit.

The search is being conducted on the following: 6176 Hazeldean Road, Goulbourn. If there is any discrepancy please contact us immediately.

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

If you have any questions regarding this matter, please contact Cara Leung at 416-314-4143.

Yours truly,

Heidi Ritscher FOI Manager

Karyn Munch

From: Sarah Quibell <squibell@tssa.org> on behalf of Public Information Services

<publicinformationservices@tssa.org>

Sent: November-17-15 3:45 PM

To: Karyn Munch Subject: RE: PE3699

Good afternoon Karyn,

Thank you for your inquiry.

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

6061 Hazeldean Rd, Stittsville has record of 4 active underground tanks and an active cylinder exchange facility.

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

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

Thank you and have a great day!

Regards,

Sarah



Public Information Services

Facilities & Business Services 3300 Bloor Street West Center Tower, 16th Floor Toronto, Ontario, M8X-2X4

Tel: 1-877-682-8772 Fax: (416) 734-3568 E-mail: publicinformationservices@tssa.org

www.tssa.org

From: Karyn Munch [mailto:KMunch@patersongroup.ca]

Sent: Tuesday, November 17, 2015 2:55 PM

To: Public Information Services

Subject: PE3699

Good Afternoon,

Could you please check your files for records of the following addresses in the City of Ottawa (Stittsville):

6061, 6081, 6141, 6171, 6176 Hazeldean Road 1224 Stittsville Main Street 50, 52, 54, 56 Neil Avenue

Thank-you very much!

Regards, Karyn Munch

Patersongroup

Solution Oriented Engineering

154 Colonnade Road South Ottawa - Ontario - K2E 7J5

Tel: (613) 226-7381 Fax: (613) 226-6344

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



File Number: C10-01-15-0330

December 3, 2015

Karyn Munch Paterson Group Inc. 154 Colonnade Road South Ottawa, ON K2E 7J5

Sent via email [KMunch@patersongroup.ca]

Dear Ms. Munch,

Re: Information Request 6176 Hazeldean Road (Parts 1, 2 and 3 of Pt. Lot 24 Concession 12), Ottawa, Ontario ("Subject Property")

Internal Department Circulation

The Planning and Growth Management Department has the following information in response to your request for information regarding the Subject Property:

• The Solid Waste Services Branch notes that the subject property is within 4.5km of a waste management facility located at 106 Westhunt Road and 3km of a waste management facility located at 2301 Carp Road.

Search of Historical Land Use Inventory

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

A search of the HLUI database revealed the following information:

• There are no activities associated with the Subject Property.

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

Shaping our future together
Ensemble, formons notre avenir

City of Ottawa Infrastructure Services and Community Sustainability Department Planning and Growth Management Branch

110 Laurier Avenue West, 4th Floor Ottawa, ON K1P 1J1 Tel: (613) 580-2424 ext. 24856 Fax: (613) 560-6006 www.ottawa.ca Ville d'Ottawa Services d'infrastructure et Viabilité des collectivités Direction de l'approbation des demandes d'aménagement et d'infrastructure

110, avenue Laurier Ouest, 4e étage Ottawa (Ontario) K1P 1J1 Tél.: (613) 580-2424 ext. 24856 Téléc: (613) 560-6006 www.ottawa.ca • There are four activities associated with properties located within 50m of the Subject Property: Activity Numbers 14503, 10116, 11318 and 6228.

Please note that Activity Number 11318 has a PIN Certainty of "2". This identifier acknowledges that there is some uncertainty about the exact location of the land use activity and that the activity may or may not have been located on the Subject Property. All database entries with a PIN Certainty of "2" require independent verification as to their precise location.

A site map has been included to show the location of the Subject Property as well as the location of all the activities noted above, including the HLUI database's location of the Activity Number with a PIN Certainty of "2".

Additional information may be obtained by contacting:

Ontario's Environmental Registry

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

The Ontario Land Registry Office

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

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

Fax: (613) 239-1422

Please note, as per the HLUI Disclaimer, that the information contained in the HLUI database has been compiled from publicly available records and other sources of information. The HLUI may contain erroneous information given that the records used as sources of information may be flawed. For instance, changes in municipal addresses over time may introduce error. Accordingly, all information from the HLUI database is provided on an "as is" basis with no representation or warranty by the City with respect to the information's accuracy or exhaustiveness in responding to the request.

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

Please note that in responding to your request, the City of Ottawa does not guarantee or comment on the environmental condition of the Subject Property. You may wish to contact the Ontario Ministry of Environment for additional information.

If you have any further questions or comments, please contact Melissa Leung at 613-580-2424 ext. 24856 or HLUI@ottawa.ca

Sincerely,

David Wise, MUP, MCIP, RPP

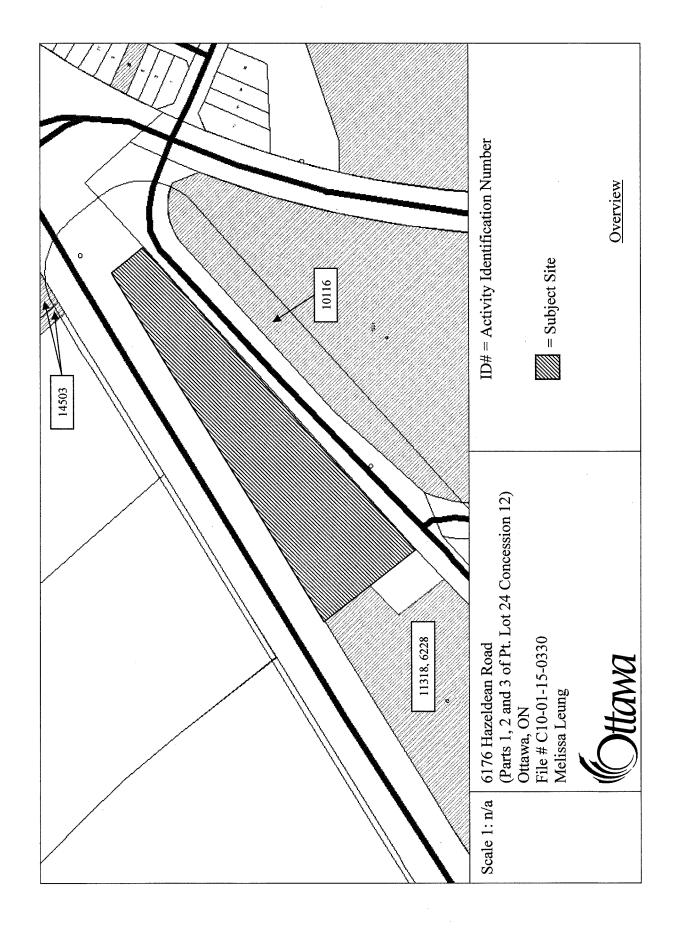
Program Manager

Development Review (Suburban Services) - West Planning and Growth Management Department

DW/ML

Attach: 6

cc: File no. C10-01-15-0330





CITY OF OTTAWA

Report:

RPTC_OT_DEV0122

Run On:

23 Nov 2015 at: 10:54:04

HLUI ID: __670IWJ
AREA (Square Metres): 472782.211

Study Year 1998 PIN 044870381

Multi-NAIC

Multiple Activities

Activity ID:

14503

Multiple PINS:

N

PIN Certainty:

Previous Activity ID(s):

5934, 5782, 5803, 5817, 5826, 5835, 5865, 5919,

5940, 5979, 5991, 6085, 6089, 6100, 6120, 6321,

6338, 6340, 6403, 6429, 6437

Related PINS:

045360337

Name:

UNNAMED QUARRY

Address:

, WEST CARLETON

Facility Type:

Stone Quarries

Comments 1:

UTM = 424125E, 5012550N (1985). Area is 450m x 500m

Comments 2:

Generator Number:

Storage Tanks:

HL References 1: 1922-DMD-TM-Ottawa Sheet #14; 1948-DND-ASE-NTS-31G/5; 1967-EMR-SMB-NTS-31/5-7th ed.;

1985-EMR-SMB-NTS-31/5-11th ed.; M.1955, M.1963; FIP1901,vol2; FIP1912,vol2; FIP1922,vol2; FIP1948-267-

Proposed; FIP1956-267-26700,vol2

HL References 2:

1951-DND-ASE-NTS-31F/8E-3rd ed., 1964-EMR-SMB-NTS-31F/8-5th ed., 1976-EMR-SMB-NTS-31F/8-7th ed.,

1989-EMR-CCM-NTS-31F/8-8th ed.

HL References 3:

1949-51-DND-ASE-NTS-31G/6W-2nd ed., 1965-EMR-SMB-NTS-31G/6W-3rd ed., 1975-EMR-SMB-NTS-31G/6-5th

ed., 1983-EMR-SMB-NTS-31G/6-6th ed., Rideau Township Archivist

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212317	81	
212314	81	
212315	81	
212316	81	
212323	82	



Unnamed Sand/Gravel Pit

CITY OF OTTAWA

HLUI ID: __670IWJ

AREA (Square Metres): 472782.211

Report:

RPTC_OT_DEV0122

Run On:

23 Nov 2015 at: 10:54:04

Multiple Activities

Study Year 1998 **PIN** 044870381

Multi-NAIC

c. 1964

Company Name Year of Operation **Unnamed Quarry** c. 1989 **Unnamed Quarry** c. 1985 **Unnamed Quarry** c. 1948 **Unnamed Quarry** c. 1975 **Unamed Quarry** c. 1951 **Unnamed Quarry** c. 1930 **Unamed Quarry** c. 1979 **Unnamed Quarry** c. 1948-1967 **Unnamed Quarry** c. 1975-1983 **Unnamed Plant** c. 1985 **Unnamed Quarry** c. 1967 **Unnamed Quarry** c. 1967-1985 **Unnamed Quarry** c. 1979 **Unnamed Quarry** c. 1922-1985



CITY OF OTTAWA

Report:

RPTC_OT_DEV0122

HLUI ID: __679BNH

Run On:

23 Nov 2015 at: 10:56:11

AREA (Square Metres): 36396.096

Study Year 2005

PIN 044590001 **Multi-NAIC**

Multiple Activities

Activity ID:

10116

Multiple PINS:

PIN Certainty:

Previous Activity ID(s):

Related PINS:

044590001

Name:

OTTAWA-CARLETON DISTRICT SCHOOL BOARD

Address:

1224 STITTSVILLE MAIN STREET, GOULBOURN TOWNSHIP

Facility Type:

Elementary and Secondary Education

Comments 1:

CENTRAL DEPOT

Comments 2:

Generator Number: ON0051002

Storage Tanks:

HL References 1:

HL References 2: HL References 3:

2000 PID

NAICS

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Company Name

Year of Operation

OTTAWA-CARLETON DISTRICT SCHOOL BOARD

c. 2003

OTTAWA-CARLETON DISTRICT SCHOOL BOARD

c. 2001

OTTAWA-CARLETON DISTRICT SCHOOL BOARD

c. 2000

OTTAWA-CARLETON DISTRICT SCHOOL BOARD

c. 2005



CITY OF OTTAWA

HLUI ID: __679G0O

Report:

RPTC_OT_DEV0122

Run On:

23 Nov 2015 at: 10:56:49

AREA (Square Metres): 19060.107

Study Year 1998

PIN 044580011

Multi-NAIC

Multiple Activities

Activity ID:

11318

2

Multiple PINS:

Previous Activity ID(s): 6394, 6635

PIN Certainty: **Related PINS:**

044580011

Name:

PROVINCE OF ONTARIO MINISTRY OF TRANSPORTATION

Address:

, GOULBOURN

Facility Type:

Other Storage and Warehousing Industries

Comments 1:

Comments 2:

Generator Number:

Storage Tanks:

HL References 1:

Township of Goulbourn Staff -29/01/99; Township of Rideau Staff -12/01/99

HL References 2:

HL References 3:

NAICS SIC 493190 479 493130 479 493120 479

Company Name

Year of Operation

Province of Ontario -Ministry of Transport

c. 1999

Province of Ontario Ministry of Transportation

c. 1999



CITY OF OTTAWA

HLUI ID: __679G0O

AREA (Square Metres): 19060.107

Report:

- RPTC_OT_DEV0122

Run On:

23 Nov 2015 at: 10:56:49

Study Year 1998 **PIN** 044580011

Multi-NAIC

Multiple Activities

Activity ID:

6228

Multiple PINS:

Ν

PIN Certainty:

1

Previous Activity ID(s):

Related PINS:

044580011

Name:

GUS'S ANTIQUES

Address:

6176 HAZELDEAN ROAD,

Facility Type:

Other Machinery, Equipment and Supplies, Wholesale

Comments 1:

Comments 2:

Generator Number:

Storage Tanks:

HL References 1:

HL References 2:

HL References 3:

2005 Select Phone

NAICS

SIC

811420

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Company Name

Year of Operation

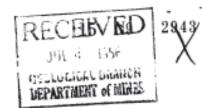
GUS'S ANTIQUES

c. 2005

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The Water-well Drillers Act, 1954 Department of Mines



CSC.58

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MINISTRY OF THE ENVIRONMENT

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MINISTRY OF THE ENVIRONMENT COPY

FORM 7 07-091

MINISTRY OF THE ENVIRONMENT

The Ontario Water Resources Act
WATER WELL RECORD
316/5

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- Ontario Public Service careers
- OSAP: Ontario Student Assistance Program
- Government services
- Outdoors Cards, Licences and Draws
- Renew a licence plate sticker
- Change the address on identification cards
- Driving and Roads

Well record information

Full well record information. Contains information from the original well record and any subsequent updates.

Well record information:

Well ID

Well ID Number: 7206067 Well Audit Number: *C19503* Well Tag Number: *A122882*

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

Well Location

Address of Well Location

Township GOULBOURN TOWNSHIP

Lot Concession

County/District/Municipality OTTAWA-CARLETON

City/Town/Village

Province ON Postal Code n/a

NAD83 — Zone 18

UTM Coordinates Easting: 426515.00 Northing: 5013177.00

Municipal Plan and Sublot Number Other

Overburden and Bedrock Materials Interval

 $General\ Colour\ Most\ Common\ Material\ Other\ Materials\ General\ Description\ \begin{array}{c} Depth\ Depth\\ From & To \end{array}$

Annular Space/Abandonment Sealing Record

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

Method of Construction & Well Use

Method of Construction Well Use

Status of Well

Construction Record - Casing

Inside Diameter Open Hole or material Depth Depth From To

Construction Record - Screen

Outside Diameter Material Depth Depth From To

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7328

Results of Well Yield Testing

After test of well yield, water was
If pumping discontinued, give reason
Pump intake set at
Pumping Rate
Duration of Pumping
Final water level
If flowing give rate
Recommended pump depth
Recommended pump rate
Well Production
Disinfected?

Draw Down & Recovery

Draw Down Time(min) Draw Down Water level Recovery Time(min) Recovery Water level SWL

SWL	
1	1
2	2
3	3
4	4
5	5
10	10
15	15
20	20
25	25
30	30
40	40
45	45
50	50

60

60

Water Details

Water Found at Depth Kind

Hole Diameter

 $\begin{array}{cc} Depth \ Depth \\ From & To \end{array} Diameter$

Audit Number: C19503

Date Well Completed: March 22, 2012

Date Well Record Received by MOE: August 07, 2013

Updated: November 9, 2015 Rate<u>Rate</u> Share<u>facebook twitter Email Print</u>

- Environment and energy,
- Drinking water,
- · Well water



Glen Murray

Minister of the Environment and Climate Change

"Fighting climate change and working to keep our air, land, and water clean will ensure Ontario's prosperity and quality of life for today and for future generations."

Ministry of the Environment and Climate Change

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- <u>Laws</u>
- Rural and north
- Taxes and benefits
- Travel and recreation

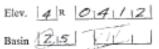
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5 R 501/12/8/6/5 N





The Water-well Drillers Act, 1954 Department of Mines



Water-Well Record

	7						
County or Territorial District	axitan	Town	nship,	Village, 7	Cown or (Oity Oou / h	ourn
Con. /2 Lot 33	Street and N	lumber (if	in Vi	llage, To	wn or C	ity)	-3 / -
Owner	Oct	196	Addr ()	ess	1.1.1.1.1.3	in the contract of the contrac	Zi.ki
(day)	(month)	(year)					
Pipe and Casing						Pumping Test	
Casing diameter(s)	′′		Stati	c level		30'	
Length(s)	- X		Pum	ping rate		5 g.p.m	-
Type of screen	nc		Pum	ping leve	d	4013	
Length of screen			Dura	tion of t	est		
Well Log						Water Record	
Overburden and Bedrock Record	From	To	ī	Depth at wh		No. of feet	Kind of water
Overvarion and Dedrock Record	Et.	ft.		four		water rises	(freeh, salty, or sulphur)
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						,	
For what purpose(s) is the water		1		11.1	16	ation of Well	W
hause			I	n diagra		show distances of	VI-
Is water clear or cloudy?						Indicate north	
Is well on upland, in valley, or on	hillside?!\!	side			1	1 15	N
Drilling firm F. Spar	Ks				1	7710	/
Address Stittswille	05+				- Par		· N
						=	• •
Name of Driller Cay 7an	H Spar	minimum i	-		13	1/	
Address	c 0,+.				0	1	
Licence Number						1	
I certify that the f	oregoing					<	tt
statements of fact						\$ 1	TOPU
Date Oct 28. F. F.	Mark)					F	/ 0 / 0

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CO CONT	The Ontario Water Resor	urces Commission	ORD		
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NAME OF DIFFLOR OF CONTRACTOR	CKEDICE PRINCE	DEFICE US	1	*(')	•
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Well Log			
Overburden and Bedrock Record	From	To	Location of Well
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			of hilli
			· See
	-		Uthan Coren
	-	-	Market Colored
	- 0	-	

y, or on hillside?. AM

FORM 5

Situation: Is well on upland,

UTM 1/8 2 4/2/6/6/10 E SR 5/0/1/2/8/7/5 North Elev. 4R 0/4/0/9 Basin 2/5 The Department of Water County or Territorial District. Corleton Con. Street and Number of in Owner. Date Completed. 13	Well Drille Mines, Pro Well Township, Village, Township,	Re	cord &	Morre	
Pipe and Casing Record			Pumping Test		
Casing diameter(s)	Static leve Pumping I Pumping r Duration o	ovel 5.6 ate. 2.6 f test	feet	, H.	A
W	Vater Recor				
How far is well from possible source of contamination? What is the source of contamination? Enclose a copy of any mineral analysis that has been made	eta s	ut	7 : *	Kind of Water	No. of Feet Water Rises
Well Log Overburden and Bedrock Record	From	T	Loc	ation of Well	
	0 ft.	Toft.			
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hmestone rock	30	30 8 5	Statt	by arrow.R.	Lient
			how has	15 W	et de l'est
Situation: Is well on upland, in valley, or on hillside? Drilling Firm	hills	Address, Licence	Dt. Horrill Number 3 9 Tion 94, Signature of	ant Sports Ligensee	

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WATER WELL RECORD

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WATER WELL RECORD 31950

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WATER WELL RECORD

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The Ontario Water Resources Act

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31G/Sd. "A" VIM 182 4216181615 F 3 | 2 | / | 5The Ontario Water Resources Commission Act Township Village, Town or City Date completed. **Pumping Test** Casing and Screen Record Static levei..... Inside diameter of casing. G.P.M. Test-pumping rate Total length of casing. Pumping level. Type of screen Duration of test pumping Length of screen Water clear or cloudy at end of test. Depth to top of screen Recommended pumping rate Diameter of finished hole with pump setting of. feet below ground surface Water Record Well Log Depth(s) at Kind of water From (fresh, salty, sulphur) which water(s) found Overburden and Bedrock Record ft. Location of Well For what purpose(s) is the water to be used? In diagram below show distances of well from road and lot line. Indicate north by arrow. Is well on upland, in valley, or on hillside? ... upland. PCARP. Drilling or Boring Firm Hal M. Lan well Dull Address. Licence Number Name of Driller or Borer... Address Date. (Signature of Licensed Drilling on Boring Contractor)

Form 7 15M-60-4138

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E.E.B



The Ontario Water Resources Commission Act

WATER WELL RECORD

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The Ontario Water Resources Act WATER WELL RECORD

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The Ontario Water Resources Commission Act

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MINISTRY OF THE ENVIRONMENT

The Ontario Water Resources Act R WELL RECORD A47 1. PRINT ONLY IN SPACES PROVIDED 2. CHECK S CORRECT BOX WHERE APPLICABLE 15003 CON 1515328 18 426848 5012909 JUL 08, 1977 301 388 26 LOG OF OVERBURDEN AND BEDROCK MATERIALS THE INSTRUCTIONS: GENERAL COLOUR MOST COMMON WATERIAL OTHER MATERIALS GENERAL DESCRIPTION

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The Water-well Drillers Act, 1954 Department of Mines

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The Ontario Water Resources Commission Act WATER WELL RECORD 31554

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The Ontario Water Resources Commission Act WATER WELL RECORD

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MINISTRY OF THE ENVIRONMENT The Ontario Water Resources Act WATER WELL RECORD

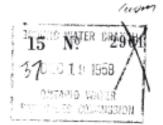
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The Water-well Drillers Act, 1954 Department of Mines



County on Territorial District	10/523 (4 ×	Топо	Village, Town or Ci	ty)				
Date completed	(month)	(year)	ddress					
Pipe and Casing Record			Pumping Test					
Casing diameter(s) Length(s) Type of screen Length of screen	Pumping rate 6.0 5.							
Well Log	Water Record							
Overburden and Bedrock Record BLACH MOCH	From ft.	To fL /4	Depth(s) at which water(s) found	No. of feet water rises	Kind of water (fresh, salty, or sulphur)			
DOUNTAIN BOCK	14	- 50	50	47	FRES.41			
					an			
For what purpose(s) is the water to be used? Is water clear or cloudy?			Location of Well In diagram below show distances of well from road and lot line. Indicate north by arrow.					
Drilling firm Address Name of Driller WJ 1/14 5								
Name of Driller Address BB 7	0 H Z S		-		# 15 300' \$			
I certify that the statements of fact	foregoing are true.			3 3	uss.			

316/5d. A VIM 182 41216191710F 5 R 50113045 N Ontario Water Resources Commission Act Township, Village, Town or City... Date completed lea Address . **Pumping Test** DELAWRI Casing and Screen Record Static level Inside diameter of casing **5**.G.P.M. Test-pumping rate Total length of casing Pumping level Type of screen Duration of test pumping. Length of screen Water clear or cloudy at end of test Depth to top of screen Recommended pumping rate Diameter of finished hole with pump setting of..... feet below ground surface Water Record Well Log Kind of water Depth(s) at То From (fresh, salty, sulphur) which water(s) Overburden and Bedrock Record ft. found Ó Location of Well For what purpose(s) is the water to be used? In diagram below show distances of well from road and lot line. Indicate north by arrow. Is well on upland, in valley, or on hillside? Drilling or Boring Firm. Address. Licence Number Drilling or Boring Contractor) Form 7 15M Sets 60-5930 OWRC COPY O\$5.397

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County or District Carl				Stitts	velle Ont		
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SD Casing and Screen Record	Pumping Test						
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Type of screen							
Length of screen	Duration of test pumping / /						
Depth to top of screen	Water clear or cloudy at end of test						
Diameter of finished hole 3	Recommended pumping rate 5 G.P.M. with pump setting of 3 O feet below ground surface						
	wi	th pump settin	g of 3 C				
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Overburden and Bedrock Record		From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, saity, sulphur)		
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APPENDIX 3

QUALIFICATIONS OF ASSESSORS

KARYN MUNCH, P.ENG.



POSITION

Intermediate Environmental Engineer

EDUCATION

Carleton University, B.Eng. 2002 Environmental Engineering

MEMBERSHIPS AND AWARDS

Professional Engineers of Ontario Ottawa Geotechnical Society

Environmental Engineering **EXPERIENCE**

2011-present

Paterson Group Inc.
Consulting Engineers

Geotechnical and Environmental Division

Intermediate Engineer

2009-2010

Geotechnical Engineering **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

Materials Testing Quality Control

2002 to 2003

Dessau Soprin Inc.
Consulting Engineers
Environmental Division
Junior Engineer

SELECT LIST OF PROJECTS

Building Sciences

Billings-Hurdman Interconnect Watermain - Ottawa

Telus Building Remediation - Ottawa

Block D Lands Remediation and Redevelopment - Kingston

Alcan Plant Redevelopment - Kingston Gladstone Avenue Reconstruction - Ottawa Lees Avenue Coal Tar Site - City of Ottawa

Nortel Networks Environmental Monitoring Program

Hydrogeology

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 Commercial Sites - Ottawa

Phase I & II Environmental Site Assessments - Residential, Commercial and Industrial Sites -

Ottawa (CSA Z768-01 and O.Reg 269/11)

Archeological Services

Brownfields Applications and Records of Site Condition - Residential and Commercial

Redevelopment

Mark S. D'Arcy, P. Eng.

patersongroup

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

Environmental Engineering Ottawa Geotechnical Group Professional Engineers of Ontario

EXPERIENCE

Geotechnical Engineering 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

Materials Testing Quality Control 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

Building Science

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

Hydrogeology

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