December 1, 2011 File: PE2357-REP.01

Claridge Homes

2001-210 Gladstone Avenue Ottawa, Ontario K2P 0Y6

Attention: Mr. Neil Molhotra

Subject: Phase I - Environmental Site Assessment 175 Richmond Road Ottawa, Ontario

Dear Sir,

Please find enclosed, six (6) copies of Report PE2357-1 regarding the environmental site assessment conducted for the aforementioned site.

We trust that this is to your satisfaction.

Sincerely,

Paterson Group Inc.

Mark S. D'Arcy, P.Eng.

patersongroup

Geotechnical Engineering

Environmental Engineering

Hydrogeology

Geological Engineering

Materials Testing

Building Science

Phase I - Environmental Site Assessment

175 Richmond Road Ottawa, Ontario

Prepared For

Claridge Homes

December 1, 2011

Report: PE2357-1

Paterson Group Inc.

Consulting Engineers 28 Concourse Gate - Unit 1 Ottawa (Nepean), Ontario Canada K2E 7T7

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EXECUTIVE SUMMARY

Assessment

Paterson Group was retained by Claridge Homes to conduct a Phase I - Environmental Site Assessment (ESA) of the property located at 175 Richmond Road, in the City of Ottawa, Ontario. The purpose of this Phase I – Environmental Site Assessment (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.

Based on the findings of the historical research and the site inspection, potential environmental concerns were identified with the former use of a large underground furnace oil storage tank along the east side of the building, the former use of the site by General Electric (1950-1977) for the manufacture of fridges and stoves, the former and current storage of Canadian Bank Note Company chemicals and equipment, the hydraulic piston elevator and the former property to the south (across Richmond Road) by Crain Printers (1940's to 1990's). A Phase II ESA was conducted in 2009 and a Supplemental Phase II ESA was conducted in October of 2011, in order to address most of the above mentioned concerns. The elevator and Canadian Bank Note storage areas were not addressed as part of the previous Phase II investigations.

Based on the findings of the previous subsurface investigations, the southern portion of the property was not considered to have been impacted by the Crain Printers facility formerly located south of the site, across Richmond Road. No signs of contamination were identified on the northern portion of the site, as a result of the former on-site manufacturing operations. Petroleum hydrocarbon (PHC) and benzene, toluene, ethylbenze and xylene (BTEX) contaminated soil and groundwater was identified in the vicinity of the former UST.

Reccomendations

Contaminated soil and groundwater are present in the area of the former on-site underground fuel storage tank nest. It is recommended that a soil and groundwater remediation program be conducted in this area to remove and dispose of the soil and groundwater in excess of the MOE Table 3 standards for a residential land use. It is also recommended that an additional soil and groundwater testing program be conducted for the soil beneath the Canadian Bank Note Company storage area and the elevator pit. All waste chemicals should be removed from the property and properly disposed of, as soon as possible

Impacted soil must be disposed of at an approved waste disposal facility. A leachate analysis in accordance with Ontario Regulation 347/558, will be required prior to disposal. It is also recommended that Paterson personnel be present during the sampling program, and also during the removal of the impacted soil and groundwater to provide direction and obtain confirmatory samples upon the completion of the remediation program.

1.0 INTRODUCTION

At the request of Claridge Homes, Paterson Group (Paterson) conducted a Phase I -Environmental Site Assessment (ESA) of the property located at 175 Richmond Road, in the City of Ottawa, Ontario. The purpose of this Phase I – ESA was to research the past and current use of the site and study area and to identify any environmental concerns with the potential to have impacted the subject property.

Paterson was engaged to conduct this Phase I – ESA by Mr. Neil Malhotra of Claridge Homes, the current owner of the subject site located at 175 Richmond Road, Ottawa, Ontario, K1Z 6W3. Mr. Malhotra can be reached by telephone at (613) 233-6030. The Phase I – ESA was commissioned to support the filing of a Record of Site Condition (RSC) for a modification in land use from commercial to residential.

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 the agreed scope-of-work and the general requirements of Ontario Regulation 511/09 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 **PROPERTY INFORMATION**

Address:	175 Richmond Road, Ottawa, Ontario
Parcel Identification Number:	04021-0073
Legal Description:	Part Lot 1, Plan 376, as in N723397; Lots 2 to 5, Plan 376, City of Ottawa.
Location:	The subject property is located at the northwest corner of the intersection of Richmond Road and Kirkwood Avenue, in the City of Ottawa, Ontario. Refer to Figure 1 - Key Plan, following the body of this report, for the site location.
Latitude and Longitude:	45°23'45" N, 75°44'50" W
Site Description:	
Site Description: Configuration:	Irregular
-	Irregular 6,475 m²
Configuration:	
Configuration: Site Area:	6,475 m ²

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 511/09 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 owned exclusively by individuals from 1915 to 1946 when a portion of the property was purchased by the Canadian Bank Note Company. The entire property was purchased by Canadian General Electric Company Limited (General Electric) in 1950 and sold to Max Cantor in 1977, although the property was still leased by General Electric. A foreclosure is registered in 1995, in favour of The Imperial Life Assurance Company of Canada. The property was subsequently purchased by 122856 Canada Limited in 1997 and leased to Zenix Engineering Limited in 2005. The property was purchased by Claridge Homes (Westboro) Inc., the current property owner, in October of 2011.

An aerial photograph from 1946 show the presence of what appears to be at least one (1) residential structure on the central portion of the subject site. It should be noted that the photograph is too poor in scale to show any significant details. Aerial photographs from 1953 through 2008, clearly show the subject structure. City directories, which were reviewed at the National Archives as part of this assessment, indicate that the subject property was first listed with the existing structure in 1952, at which time it was occupied by Canadian General Electric Company. According to the directories, the subject site remained occupied by Canadian General Electric until 1978. The property was subsequently listed as vacant in 1979, and has been listed as various commercial businesses (retail and offices) since 1980. For the purposes of this report, the subject property was first developed for residential purposes in the early 1900's until developed with the existing structure circa 1950.

Fire Insurance Plans

Fire Insurance Plans (FIPs), dated 1956, were reviewed at the National Archives as part of this assessment. Based on the FIPs, the subject property was occupied by Canadian General Electric Company at the time. The adjacent property to the east, across Kirkwood Avenue, was occupied by the Canadian Bank Note, while the adjacent property to the south, across Richmond Road, was occupied by Crain Printers. Adjacent properties to the west were occupied by residential dwellings, and the adjacent property to the north, across Wilber Avenue, was vacant. In addition to the Candian Bank Note and Crain Printers, the FIPs identified several more potentially contaminating activities in the vicinity of the subject property. The potentially contaminating activities are summarized in Table 1.

Table 1: 1956 FIPs - Potentially Contaminating Activity in Phase I Study Area						
Address	Activity	Approximate Distance/Orientati on from Subject Site	Potential Environmenta I Concern for Subject Site (Y/N)			
105 Richmond Road	Automotive Service Garage	215 m - E	Ν			
130 Richmond Road	Crain Printers	20 m - S	Ν			
145 Richmond Road	Canadian Bank Note	25 m - E	Ν			
205 Richmond Road	Pepsi-Cola Co. Of Canada Ltd.	90 m - W	Ν			
225 Richmond Road	Gasoline Service Station	170 m - W	Ν			
199 McRae Avenue	Thomas G. Fuller Ltd., Contractors Yard	100 m - W	Ν			
346 A McRae Avenue	Automotive Service Garage	175 m - W	Ν			
320 McRae Avenue	Willy's Body Shop	180 m - NW	Ν			
307 Clifton Road	Transformer Sub-Station	120 m - SW	Ν			
Scott Street	Canadian Pacific Railway and associated warehouses	160 m - N	Ν			
Latchwood Road	Independent Coal & Lumber Company	210 m - N	Ν			

Based on its location of less than 50 m upgradient of the subject site, the Crain Printers property at 130 Richmond Road would typically be considered to have had the potential to impact the subject site. However, based on previous engineering reports, the Crain Printers facility is not considered to have impacted the subject site.

None of the other potentially contaminating activities identified on the 1956 FIPs are considered to have had the potential to impact the subject site given their distances and/or orientations (down- or cross-gradient) with respect to the subject property.

City of Ottawa Street Directories

City directories from 1930 to 2010 were reviewed at the National Archives, in approximate 10 year intervals, as part of the Phase I ESA. The city directories identified the following listings for the subject property.

Table 2: City Directories - Listings for Subject Site						
Site Occupant	From	То	Potential Environmental Concern (Y/N)			
Marlin Travel, Ottawa Vocal and Dance Performance Academy, Gotta Paint, Genivar, Nan's Fashion and Beauty Supplies, Elation Centre	>2000	2010	Ν			
Guillevin International Pro-restaurant equipment supply	1990	2010	Ν			
Crackers Restaurant Two, Marine Mail Order Supply, Eastern Ontario Swimming Association, Guillevin International Inc. Electric Wholesale	1990	<2000	Ν			
Copper Kettle Restaurant	1980	<1990	Ν			
Canadian General Electric Company	1952	1978	Y			

Neighbouring properties were listed as a combination of residential, commercial and institutional. Several potentially contaminating activities were identified and are summarized in Table 3 below.

Address	Listed Activity	Years Listed	Distance / Orientation from Site	Potential Environmental Concern (Y/N)	
345 Tweedsmuir Avenue	Lew's Auto Upholstery Frappier's Garage	1969 1959	210 m - W	Ν	
320 McRae Avenue	Auto Rebex Carson Auto Body	2000, 2010 1990	185 m - NW	Ν	
330 McRae Avenue	Gifford Auto	2010	180 m - NW	Ν	
356 McRae Avenue	Lloyd's Service Centre	1979	170 m - W	N	
359 McRae Avenue	Gifford Auto	2000	85 m - W	N	
Clifton Road	Coal and Lumber Yard	1969, 1959, 1949	210 m - N	Ν	
1950 Scott Street	Independent Coal, Oil and Lumber Service Station	1959, 1969 150 m - NW 1959		N	
1960 Scott Street	Capital Landscaping Co. Gervais Motors	2010 1990	135 m - NW	N	
1976 Scott Street	Shouldice Construction Warehouse Auto Upholstery J's Gas Bar Westboro Motors	1959 1959, 1969 1976 2010	185 m - NW	N	
90 Richmond Road	Appliance Recycling Depot Esquire Cleaners Dominion Helicopters JW Bell Paper Co. Lowney & O'Connor roofers	2000, 1996, 1990, 1986, 1976 1970 1966 1956 1946	210 - SE	N	
93 Richmond Road	Goodwill Auto Landsdowne VW Bernard Motors	2000, 1996, 1990, 1986 1976 1966	255 m - E	N	
107 Richmond Road	Gibson Service Station	1960	220 m - E	N	

Address	Listed Activity	Years Listed	Distance / Orientation from Site (approx)	Potential Environmental Concern (Y/N)	
109 Richmond Road	Canadian Tire gas bar Westboro Motor Sales Munro Garage Munro Car Dealer	1986, 1976 1966 1956 1946	220 m - E	N	
119 Richmond Road	Canadian Tire	2010, 1996, 1990, 1986, 1976, 1966	150 m - E	N	
125 Richmond Road	Biggs Car Lot	1956	150 m - E	N	
145 Richmond Road	Canadian Bank Note	2010, 2000, 1996, 1990, 1986, 1976, 1966	20 m - E	Ν	
190 Richmond Road	Crain-Drummond Transport	2000	25 m - S,SW	Y	
201 Richmond Road	Sheera Car Care	2000	87 m - W	N	
225 Richmond Road	Otto's Service Centre Westboro Auto Imports Shell Service Station	2010, 2000, 1990 1980 1970, 1960, 1949	165 m - W	N	
235 Richmond Road	Otto's Car Sales and Service	1980	210 m - W	N	
236 Richmond Road	McEwen Petroleum/ Nick's Service Centre	2010, 2000, 1990, 1980, 1970, 1960	220 m - SW	N	
245 Richmond Road	Otto's Subaru	2000, 1990, 1980, 1970, 1960	245 m - W	N	
255 Richmond Road	Lusitania Auto Body Holoway Motors Auto Garage	2010, 2000, 1990, 1980, 1970 1960, 1949	280 m - W	N	
256 Richmond Road	Sunoco Service Station	2010, 2000, 1990, 1980, 1970, 1960	275 m - SW	Ν	

Based on its location of less than 50 m upgradient of the subject site, the Crain Drummond property at 190 Richmond Road would typically be considered to have had the potential to impact the subject site. This property is considered to have also been addressed as 130 Richmond Road, the Crain Printers property, which is not listed in the city directories. As mentioned previously, this property is not considered to have impacted the subject site, based on previous engineering reports.

None of the other potentially contaminating activities identified in the city directories are considered to have had the potential to impact the subject site given their distances and/or orientations (down- or cross-gradient) with respect to the subject property.

Chain of Title

Paterson verified the current land title with Read Abstracts Limited. According to the Chain of Title, the site was owned exclusively by individuals from 1915 to 1946. It appears as though a portion of the property was purchased by the Canadian Bank Note Company in 1946 and subsequently sold to Canadian General Electric Company Limited (General Electric) in 1950. General Electric also purchased the remaining portion of the property, from a private individual, in 1950. In 1977 the deed became registered to Max Cantor, however a lease also dated 1977, was registered from Max Cantor to General Electric. Leases are also registered from Max Cantor to Canadian Appliance Manufacturing Company Ltd. in 1977, to Paul A. Thibodeau (The Soup Kettle Restaurant Limited) in 1979, and to Charles Finkelstein in 1981. A foreclosure is registered in 1995, in favour of The Imperial Life Assurance Company of Canada. The property was purchased by 122856 Canada Limited in 1997 and leased to Zenix Engineering Limited in 2005. The property was purchased by Claridge Homes (Westboro) Inc., the current property owner, in October of 2011. A copy of the Chain of Title is provided in Appendix 1.

Environmental Reports

The following reports were reviewed prior to conducting the Phase I ESA:

- "Phase I-II Environmental Site Assessment, 175 Richmond Road, Ottawa, Ontario", prepared by Paterson Group, dated November, 2009; and
- "Supplemental Phase II Environmental Site Assessment, Existing Commercial Property, 175 Richmond Road-Ottawa, Ontario", prepared by Paterson Group, dated October 19, 2011.

Based on the findings of the original Phase I-ESA, potential environmental concerns identified include the former use of a furnace oil underground storage tank (UST) along the east side of the subject building, the former use of the site by General Electric for the manufacture of refrigerators and stoves, and the former use of the adjacent property to the south (across Richmond Road) by Crain Printers from the 1940's to the 1980's. A Phase II-ESA was recommended and conducted to identify potential soil and groundwater impacts from the above-noted areas of the concern.

A borehole equipped with a groundwater monitoring well was placed on the southern portion of the subject site to address the former printing facility across Richmond Road. There was no evidence of contamination observed in the soil or groundwater samples recovered from the borehole and organic vapour readings were considered to be representative of background conditions. No detectable concentrations of volatile organic compounds (VOCs) were detected in the groundwater sample submitted for analysis. Based on these findings, the Crain Printers facility was not considered to have had an impact on the subject site.

Three (3) boreholes were advanced in the area of the former tank nest. Hydrocarbon impact (odour, staining and elevated vapours) was noted in some of the samples from the boreholes placed inside and north of the former tank nest. Soil samples were submitted for benzene, toluene, ethylbenzene and xylenes (BTEX) and/or petroleum hydrocarbons (PHCs - F_1 - F_4) analysis. PHCs (F_2 and/or F_3) concentrations in excess of the MOE Table 3 standards were detected in samples recovered in the former tank nest and north of the former UST. Based on this information, the former furnace oil UST has impacted the subsurface of the subject property.

Two (2) boreholes were placed on the northern portion of the site in order to assess the former on-site industrial activities. No visual or olfactory signs of contamination were noted in the soil samples recovered from these boreholes. No VOC parameters were detected in the soil sample submitted for analytical testing.

It was recommended that the area of the former tank nest be remediated to comply with MOE standards. A more detailed delineation program was recommended for both the interior and exterior of the subject property.

Very limited information on the former site operations during General Electric ownership was available during the assessment. It was recommended that an additional attempt be made at locating original building plans in order to gather more information on the former manufacturing operations in order to determine whether additional outstanding areas of concern exist. It was also recommended that the maintenance and decommissioning contractor for the piston elevator be contacted in order to ensure that the elevator was in good condition when decommissioned with no significant leaks (current or historical) from the unit. Finally, it was recommended that reference be made to a previous asbestos survey conducted by T. Harris (2007), to obtain further details on potential asbestos containing materials within the building, and that lead testing be conducted in the building prior to the disturbance of older painted surfaces.

During the supplemental Phase II-ESA, conducted in May and June of 2011, seven (7) additional boreholes were placed on the subject property. BTEX and PHC concentrations in excess of the MOE Table 3 standards were identified in the soil samples recovered from boreholes in the vicinity of the former UST. No detectable BTEX or PHC concentrations were identified in the soil samples collected from the remaining boreholes.

PHC concentrations in excess of the MOE Table 3 standards were identified in the groundwater sample collected from BH4. PHC parameters were not detected in the groundwater samples collected from BH6 and BH7. VOC parameters were not detected in any of the groundwater samples.

It was recommended that a soil and groundwater remediation program be conducted in the area of the former on-site underground storage tank nest, in order to remove and dispose of the soil and groundwater in excess of the MOE Table 3 standards. It was suggested that the remediation program be carried out at the time of site redevelopment, in order to reduce costs.

Plan of Survey

A current plan of survey, dated March 17, 2011 and prepared by Annis, O'Sullivan, Vollebekk Ltd., was provided to Paterson for review. A copy of the plan of survey is included in Appendix 1.

4.2 Environmental Source Information

Environment Canada

A search of the National Pollutant Release Inventory (NPRI) was conducted electronically on November 4, 2011. The subject site was not listed in the NPRI database. A record was identified for the Canadian Bank Note property located east of the property, across Kirkwood Avenue, at 145 Richmond Road. The database indicates that in 2009 11 tonnes of volatile organic compounds were released to the air. These air emissions are not considered to be a concern to the subsurface soil and groundwater conditions at the subject site. The NPRI database also indicates a release of 4.5 kg at the Canadian Bank Note property as well as the off-site disposal of 12 kg of Hexavalent Chromium (and its compounds) from this property. Based on the nature of metals and the orientation of the CBNC cross-gradient from the subject site, the release at the CBNC property is not considered to pose a significant concern to the subject property. No other 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. No PCB was storage sites are located within the study area.

Ontario Ministry of the Environment (MOE) Instruments

A request for information was submitted to the MOE Freedom of Information office for information with respect to Certificates of Approval, Permits to Take Water, Certificates of Property Use or any other similar MOE issued instruments for the site. At the time of issuing this report a response had not yet been received from the MOE. A copy of the response will be forwarded to the client when it is received, along with an addendum letter to this report. A copy of the request is provided in Appendix 2.

MOE 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.

MOE Incident Reports

A request was submitted to the MOE Freedom of Information office for information with respect to records concerning environmental incidents, orders, offences, spills, discharges of contaminants or inspections maintained by the MOE for the site or adjacent properties. At the time of issuing this report a response had not yet been received from the MOE. A copy of the response will be forwarded to the client when it is received, along with an addendum letter to this report. A copy of the request is provided in Appendix 2.

It should be noted that the same request was made for the subject property in 2009. The results of the search identified an occurrence report from 1997 and an MOE Hazardous Waste Information Network (HWIN) record. The occurrence report concerned a reported release of CFC's to the atmosphere by Pro Restaurant Equipment. No violation was confirmed. A copy of this information, along with the original MOE request form is also provided in Appendix 2.

MOE Waste Management Records

A request was submitted to the MOE Freedom of Information office for information regarding waste management records, which are not anticipated to exist 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. At the time of issuing this report, a response had not yet been received from the MOE. A copy of the response will be forwarded to the client when it is received, along with an addendum letter to this report. A copy of the request form is included in Appendix 2.

As mentioned previously, a similar request was made for the subject property in 2009, at the time of the initial Phase I-II ESA. The HWIN record indicated that a liquid waste classified as 221-L was generated on site and disposed off-site. No other details were provided. A copy of this information and the original request form are provided in Appendix 2.

MOE Submissions

A request was submitted to the MOE Freedom of Information office for information regarding reports related to environmental conditions which are expected to have been submitted to the MOE. At the time of issuing this report, a response had not yet been received from the MOE. A copy of the response will be forwarded to the client when it is received, along the an addendum letter to this report. A copy of the request form is included in Appendix 2.

Ontario Ministry of the Environment (MOE) Notices and Instruments

A search of the MOE Brownfields Environmental Site Registry was conducted as part of this assessment, for the subject site and properties located within the Phase I study area. Four (4) records of site condition (RSCs) within the Phase I study area, were listed in the site registry. The properties are as follows: 1900 Scott Street (the residential development located approximately 20 m north of the subject site, across Wilber Avenue), 111 Richmond Road (located approximately 155 m east of the site, immediately east of the Canadian Bank Note Company property), 101 Richmond Road (approximately 240 m east of the site) and 93 Richmond Road (approximately 250 m east of the site). Based on information contained in the registry and in our files, these properties are not considered to pose a concern to the subject site.

MOE Waste Disposal Site Inventory

The Ontario Ministry of Environment document entitles "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 or above mentioned industrial sites within the Phase I study area.

Areas of Natural Scientific Interest

According to the Ontario Ministry of Natural Resources' (MNR) GIS mapping website, there are no areas of natural scientific interest within the Phase I study area.

Technical Standards and Safety Authority (TSSA)

The TSSA, Fuels Safety Branch in Toronto was contacted electronically on November 3, 2011, to inquire about current and former underground storage tanks, spills and incidents for the site and neighbouring properties with potential environmental concerns. There are no records listed in the TSSA registry for the subject site. There is one (1) record of an active cylinder exchange facility at the property addressed as 190 Richmond Road, located approximately 20 m south of the subject site. There were no other records identified for the properties located within the Phase I ESA study area.

City of Ottawa Former Landfill Document

Based on this document, there is a former landfill site located west of McRae Avenue, between Scott Street and Richmond Road, between 160 m and 200 m west of the subject site. Available information indicates that the landfill was likely active prior to 1940 and was used for the disposal of domestic waste. There has been no known monitoring conducted on the site. Based on its distance from the subject property and its location cross-gradient to the subject site the former landfill is not considered to pose a concern to the subject property. No active waste disposal sites are located within the Phase I study area.

City of Ottawa Former Industrial Site Document

The properties at 145 Richmond Road (Canadian Bank Note Company) and 190 Richmond Road (former Crain Printers) were identified in this document. No other industrial sites were listed within the Phase I study area.

City of Ottawa Historical Land Use Inventory Search

A request was made to the City of Ottawa to conduct a search of existing environmental records in their Historical Land Use Inventory (HLUI) database, for the subject site and surrounding properties. A response was received from the municipality on December 2, 2011. The Infrastructure Services and Community Sustainability Department has no records for the subject property. The HLUI showed seven (7) records for the subject site and seven (7) records for properties within 50 m of the subject site. The activities identified at the subject site, which is also addressed as 350 and 360 Kirkwood Avenue, include the following: Albert and Sons Engravers (2000-2003), Pro Restaurant Equipment (2001), Brebner Manufacturer and Repairs (men and boy's clothing industries - 2001), Canadian General Electric (1956), Kirkwood Paper Sign Man (2001-2005), Diamond Mechanical (2001), Guillevin International (2001,2005). The activities identified for the neighbouring properties include the following: RL Crain (190 Richmond Road - 1947-1994), Westboro Garage (166 Richmond Road 1930-1940), Photo Features (160 Richmond Road - 2001), Westboro Monument and Wire Works (156 Richmond Road - 1940), Canada Aerial Photo Corporation (160 Richmond Road -1998) and the Canadian Bank Note Company (195 Richmond Road - 1948). The information provided in the City's records does not appear to be entirely accurate or complete. No pertinent information not already addressed in other sections of this report was identified. A copy of the City's response is located in Appendix 2.

4.3 Physical Setting Sources

Aerial Photographs

Historical air photos from the National Air Photo Library were reviewed. The review period covers the period of time from the first development of the site to present site conditions. Based on the review, the following observations have been made:

- 1945 The subject site and adjacent properties were occupied by residential dwellings or were vacant.
- 1946 No significant changes were made to the use of the subject site or adjacent properties to the north, east and west. The Crain Printers facility was constructed south of the site, across Richmond Road.
- 1953 The existing structure was constructed on the subject site. The original portion of the Canadian Bank Note facility was constructed on the adjacent property to the east, across Kirkwood Avenue. No significant changes were made to the use of the adjacent properties to the north, south and west.
- 1968 No apparent changes were made to the subject site or adjacent properties with the exception of the Canadian Bank Note facility which was expanded.
- 1976 No apparent changes were made to the subject site or adjacent properties.
- 1986 No apparent changes were made to the subject site or adjacent properties.
- 1994 No apparent changes were made to the subject site or adjacent properties.
- 2002 (City of Ottawa website) No apparent changes were made to the subject site or adjacent properties to the north, east and west. The adjacent property to the south, formerly occupied by Crain Printers, was vacant.
- 2005 (City of Ottawa website) No apparent changes were made to the subject site or adjacent properties to the east and west. The adjacent property to the south was redeveloped with the existing commercial structure and the adjacent property to the north was developed with numerous residential dwellings.

2008 (City of Ottawa website) No apparent changes were made to the subject site or adjacent properties.

Laser copies of some of the aerial photographs listed above are included in Appendix 1 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 north. 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 map "Bedrock Geology of Ontario, Map 2544, Ontario Geological Survey, 1991" was consulted as part of this assessment. Based on this mapping, the surficial overlying material consists of plain Glacial Till at depths ranging from 3 to 5 m over most of the site and from 2 to 3 m near the northwestern corner of the subject site. The mapping also indicates that the bedrock underlying the subject property is of the Gull River Formation, comprised of interbedded limestone and dolomite.

Water Well Records

A requisition was sent to the MOE to provide water well records for all drilled wells within 250 m of the subject site. A response was received from the MOE on December 1, 2011. The records provided by the MOE indicate potable wells located on properties along the west side of Island Park Drive (1948), at the southwest corner of Richmond Road and Kirkwood Avenue (1958) and at the southeast corner of Richmond Road and Tweedsmuir Avenue (1958). Records of monitoring wells are present for the properties at 109 Richmond Road (former Canadian Tire property), 369 Island Park Drive at Richmond Road, Tweedsmuir Avenue north of Richmond Road and 255 Richmond Road. Based on the distances of these properties (over 50 m) and their positions cross-gradient to the subject site and information located in our files, these properties are not considered to pose a concern to the subject site. A well record for an abandoned potable well for 145 Richmond Road (the Canadian Bank Note Company property) was also included in the MOE's response. Copies of the well records are provided in Appendix 2.

Water Bodies and Areas of Natural Significance

No water bodies are present on the subject property or within the Phase I study area. The Ontario Ministry of Natural Resources GIS mapping was reviewed for Areas of Natural and Scientific Interest (ANSIs). According to the mapping, there are no areas of natural significance within the Phase I study area.

Fill Materials

Fill materials were not observed on site at the time of the site inspection. Based on the previous engineering reports, fill material is present on site, beneath the asphaltic concrete and over native Glacial Till. Fill was encountered at the former tank nest location, to the end of the borehole (practical refusal to augering at a depth of 4.2 m below ground surface), during the previous drill program. The fill material generally consisted of silty sand with gravel or crushed stone. No deleterious fill materials were noted during the field program.

No obvious signs of fill material were noted on the properties within the Phase I ESA study area, at the time of the site assessment. No environmental concerns are anticipated with respect to fill materials on the site or neighbouring properties.

5.0 INTERVIEWS

Property Owner

A representative from Claridge Homes was not interviewed as part of the assessment. Claridge Homes recently purchased the subject property and does not have significant historical knowledge of the site.

District Realty Representative

Mr. Grant Gentle, with District Realty, has been the site superintendent for approximately 15 years, and was interviewed during both the previous Phase I-ESA carried out for the subject property in 2009 and the current Phase I ESA. At the time of the original Phase I, Mr. Gentle indicated that an underground storage tank (UST) was formerly located on the east side of the subject building and that the tank had been removed (~2007). Mr. Gentle indicated that there were numerous holes at the bottom of the tank and a strong odour coming from the excavation at the time of the tank removal.

According to Mr. Gentle, he was told that General Electric formerly used the site to build fridges and stoves. He mentioned that, from conversations with long-time employees of the adjacent Canadian Bank Note facility, the work was done on the second and third floors of the building. When asked about building plans, Mr. Gentle indicated that he recalled looking at a set of original building plans for the subject property. He believed that the plans were given to an engineering firm during renovations to the building, and the plans could not be located.

Mr. Gentle indicated that, to his knowledge, the subject site and adjacent properties were never occupied by service stations, garages or dry cleaning facilities. He was also unaware of any spills or environmental concerns for the subject site (other than the former UST). To his knowledge, there have been no significant changes with regard to the environmental condition of the subject site and adjacent properties, since the previous Phase I ESA conducted in 2009.

Mr. John Foley, with the Canadian Bank Note Company Ltd. (CBNC) was also interviewed as part of this assessment. CBNC stores a vast quantity of various chemicals in the former basement-level parking garage located at the north end of the subject structure. Most of the chemcials are stored in 45 gallon (205) L sealed drums, located on platforms. According to Mr. Foley, various inks, ink pigments and varnishes as well as rollers and mechanical parts are stored at this location. Items stored on the ground floor level above include mostly paper products as well as sealed drums 205 L drums containing aqueous glue and clay products. Mr. Foley was unaware of any significant releases or spills of any CBNC products stored within the subject structure.

6.0 SITE RECONNAISSANCE

6.1 General Requirements

The site investigation was conducted between 1:30 and 4:00 PM on November 10, 2011. Ms. Karyn Munch, an Environmental Engineer with the Environmental Department of Paterson Group, conducted the site investigation. The weather conditions were cloudy with a temperature of 5°C. In addition to the site, the uses of neighbouring properties within the Phase I ESA study area were also assessed at the time of the site investigation.

The subject building is currently occupied by the following tenants: Marlin Travel, Guillevin International Company (electrical supply wholesaler), Ottawa Vocal & Dance Performance Academy, Gotta Paint, Genivar, Nana's Fashion and Beaty Supplies, Elation Centre (a yoga studio), Canadian Bank Note Company storage and Church of the Pentecost. Photographs 1-4 depict most of the exterior of the site building.

6.2 Specific Observations at the Phase I Property

Buildings and Structures

The subject property is occupied by a 1 to 2 storey commercial building with a basement level. The exterior of the building is finished with a combination of concrete block, brick, stucco and aluminum cladding. The roof is flat and finished with a combination of asphaltic membrane and tar and gravel. Based on historical information, the structure was built in the 1950's. The building is currently heated with natural gas fired equipment (boilers, space heaters and roof top HVAC units).

Below Ground Structures

A piston elevator is present in the subject building. The elevator was reportedly decommissioned several years ago. The elevator room was accessible at the time of the inspection. Some staining was observed on the poured concrete floor around the elevator pump and around three (3) small containers of hydraulic fluid stored on the floor. The elevator pit was not accessible at the time of the site inspection, however it was possible to view a limited portion of the pit. What appeared to be water and rust stains were present on the concrete floor of the pit and are shown in Photograph 5. No other below ground structures were observed on the site at the time of the site assessment, nor are any expected to exist.

Storage Tanks

Vent and fill pipes, presumed to be associated with a former basement aboveground storage tank (AST), were observed on the east wall of the building. The vent and fill pipes were also observed on the interior of the subject structure, within the boiler room located in the basement. The pipes were cut off and no AST was present.

An asphalt patch was also noted on the exterior of the property, near the aforementioned vent and fill pipes, the reported location of the former underground storage tank (UST) previously removed from the subject property. A set of distribution lines were observed entering the boiler room at this location on the interior of the subject structure. There were no other vent and fill pipes or signs of existing or former USTs observed on the interior or exterior of the subject site at the time of the site assessment.

Potable Water Source

The subject property is serviced with municipal water. There were no potable water wells observed on or around the subject property at the time of the site visit.

Underground Utilities

Underground utility service locates were conducted prior to both the previous Phase I-II ESA and Supplemental Phase II ESA. A buried Hydro conduit is present east of the building and runs parallel to Kirkwood Avenue on the northern portion of the property.

The sanitary sewer line extends north from the north wall of the building and connects to a manhole located on near the northwestern corner of the property. The sewer line then travels west along Wilbur Avenue. The water service extends north from Richmond Road and enters the central portion of the east wall of the subject building. Enbridge Gas and Bell were marked as clear on the service locates, however two (2) natural gas hookups are present along the east wall of the subject building. It is considered likely that these lines connect to a main distribution line along either Kirkwood Avenue or Richmond Road.

Building Entry/Exit Points

Twelve (12) man doors were observed on the exterior of the building. One (1) garage bay door is present along the south wall near the western corner of the building. One (1) loading area/bay door is present along the east wall near the central portion of the site. Four (4) loading areas/bay doors are present at the rear of the building. The location of the aforementioned entry/exit points are labelled on Drawing PE2357-2.

Heating/Cooling Systems

The building is currently heated with natural gas fired equipment (boilers, space heater and rooftop HVAC units). As mentioned previously, a former underground storage tank was located along the eastern wall of the subject building. A former aboveground storage tank was also located in the basement boiler room. The former presence of the UST and AST indicates that the previous heating source for the building was furnace oil.

Sumps, Pits and Drains

The liquid discharge from the subject property includes the washwater and sewage from the building and the water from the floor drains and sump pit. The sump pit was located in the boiler room situated along the eastern wall of the subject structure. The sump pit, approximately 1 m in depth, is suspected to be original with the construction of the building in the 1950's. Water was present in the pit at the time of the inspection. The water appeared cloudy at the time of the site assessment, however no hydrocarbon sheen or unusual odour was noted.

Mr. Gentle indicated that a sump pump is located in the elevator pit, which was not accessible at the time of the site inspection. He indicated that the pit is approximately 2 m deep and has been dry in the past. A photo of a portion of the pit is shown in Photograph 5.

Several floor drains were observed at the time of the site inspection. A floor drain was observed in the mechanical room containing the air handling equipment. Water was ponded around the drain at the time of the assessment. The water was clear and no signs of contamination were observed. A floor drain was observed in the basement hallway (within the northern portion of the subject building). It was not possibly to open the drain cover at the time of the inspection. A floor drain was also observed in the ground floor level CBNC storage area. The drain appeared to be dry upon inspection. A floor grate, extending the length of the basement-level CBNC storage area was noted at the time of the inspection. It was not possible to inspect the length of the floor grate as the majority of it was covered with stored items. However, the drain led to a catch basin at the base of the entrance ramp, which was inspected. The basin was approximately 1 m deep and the water inside was observed to be clean with no hydrocarbon sheen or odour and is shown in Photograph 6.

Building plans showing the location of the floor drains were not available. However, the location of the elevator pit and approximate locations of the sump pit and floor grate and catch basin located in the CBNC storage area are shown on Drawing PE2357-2.

All floor drains and sump pits discharge to the municipal sewer system.

Unidentified Substances

A 20-L pail containing an unidentified substance was located in the basement mechanical room where the air handling equipment was located. The pail was sealed and marked, however, the substance had been spilled over the side and it was not possible to determine its contents. Staining was observed on the poured concrete floor around the pail. No cracks were observed in the concrete and the staining was not located in the vicinity of a drain or any other potential discharge location.

Staining Near a Potential Discharge Location

Staining was noted on the floor of the basement-level CBNC storage area. The staining was red in colour and considered to have resulted from minor spillages of ink pigments stored in small containers located on a shelf in the central portion storage area. There were also minor oil stains on the concrete floor in the vicinity of the stored mechanical parts. The staining was not in the immediate vicinity of the floor drain, however as noted previously, the drain could not be fully inspected due to stored items covering the grate. As mentioned above in the *Sumps, Pits and Drains* section, the drain led to a basin at the base of the ramp leading to the storage area. The basin was open and inspected. The water in the basin was clear and no obvious visual or olfactory indications of impact were noted. Minor stains were noted elsewhere in the basement and ground floor levels of the subject building, however the stains were not located in the vicinity of potential discharge locations.

The Canadian Bank Note Company was contacted with a request for an inventory of chemicals stored on site, including Material Safety and Data Sheets (MSDS), as well as information pertaining to any previous spills or releases on the subject site. A response had not been received at the time of issuance of this report. Upon receipt, all information will be provided to the client in an addendum letter.

Floor Condition

The flooring throughout the building was observed to be a combination of poured concrete, vinyl floor tiles, linoleum, terrazzo, carpet, laminate and ceramic tile. No cracks or signs of corrosion were observed on the flooring in the building at the time of the assessment. As discussed above, staining was noted on the poured concrete floor of the Canadian Bank Note Company basement storage area. The concrete in the vicinity of the staining was in good condition at the time of the site assessment. Other areas of minor staining were observed in the basement mechanical rooms, including the air handling equipment room and the elevator. Minor staining was also observed in Gotta Paint. The floor surface in the areas of minor staining was in good condition.

Ground Surface

The subject building occupies most of the subject site, with the exception of asphalt parking areas located north, east and south of the building. The site and general topography in the area slope down in a northerly direction. Site drainage consists of sheet drainage to catch basins located on the subject property and adjacent roadways. No ponding of water or signs of surficial contamination were observed at the time of the investigation.

Railway Lines

No railway lines were observed on the subject site. A Canadian Pacific Railway line was previously present approximately 160 m north of the subject site. Based on the distance of the former railway from the subject property and the inferred direction of groundwater flow northward towards the Ottawa River, the former rail line is not considered to pose a concern to the subject property.

Potentially Contaminating Activities

There are no manufacturing or processing activities conducted on the subject property, however ink, ink pigments and varnishes are stored in the basement-level Canadian Bank Note Company storage area. Inks and varnishes are stored in sealed 205 L drums located on platforms. Small quantities of ink pigments are stored in plastic containers located on a shelving unit. No other potentially contaminating activities are currently located on the subject property.

Building Materials

A general description of the interior of the subject building is as follows:

- The floors are finished with a combination of poured concrete, vinyl floor tiles, linoleum, terrazzo, carpet, laminate and ceramic tiles;
- The walls are finished with a combination of concrete, concrete wire mesh and gypsum board;
- The ceilings are finished with gypsum board, suspended tiles, plaster (stippled finish) or concrete. Newly installed spray-on insulation was observed on the ceiling in the upper floors; and
- Lighting used throughout the building is fluorescent and incandescent.

Potentially Hazardous Building Products

Asbestos-Containing Materials (ACMs)

Based on the date of construction of the building (1950's), some building materials are considered to have the potential to contain asbestos. An asbestos survey was reportedly conducted by T. Harris for the subject building in 2007. Reference to this report should be made for further information on ACMs. The suspected ACMs were generally in good condition at the time of the site visit and do not represent an immediate concern.

Lead-Based Paint

Based on the date of construction of the building, lead-based paints may be present on original painted surfaces throughout the subject structure. Pained surfaces were generally in good condition at the time of the site assessment.

PCBs

No concerns with respect to PCBs were noted at the time of the site inspection. The hydro vault was inaccessible at the time of the site visit. The site superintendent was not aware of any issues with respect to the transformer.

Urea Formaldehyde Foam Insulation (UFFI)

No signs of UFFI were observed at the time of the site assessment, however the wall cavities were not inspected to confirm insulation type.

6.3 Enhanced Investigation Property

On-Site Processing/Manufacturing Operations

The tenants currently occupying the subject site include: Marlin Travel, Guillevin International Company (wholesaler of electrical equipment, wiring and supplies), Rob's Music, Gotta Paint (paint-it-yourself ceramic studio), Genivar (an engineering firm), Nana's Fashion and Beauty Supplies, Elation Centre (yoga studio) and Church of the Pentecost. The Canadian Bank Note Company uses the northern portion of the building for storage purposes. There are no current on-site processing or manufacturing operations.

Hazardous Material Storage

As mentioned previously, large quantities of ink and varnishes are stored in the basement-level Canadian Bank Note Company storage area. Inks and varnishes are stored in sealed 45 gallon drums (205 L) located on platforms. Small quantities of ink pigments are stored in plastic containers located on a shelving unit. There was no indication of a significant chemical release at this location, however there was staining considered to be from small releases of ink pigments, observed on the poured concrete floor. The floor was in good condition at the time of the assessment. There was a floor drain running the length of the eastern wall of the storage area. The floor drain could not be thoroughly inspected due to storage items. However, the collector basin was inspected. The water was clean and no sheen or odours were noted.

Small quantities of hydraulic fluid were observed to be stored in small plastic containers located in the elevator room. Small quantities of paint as well as cleaning and maintenance chemcials were present throughout the remainder of the building. As mentioned previously, minor staining (dipping glaze) was noted in Gotta Paint and minor staining of an unidentified substance was observed in the mechanical room containing the air handling equipment.

Raw Materials Handling and Storage

No raw materials are handled or stored on the subject property.

Drums, Totes and Bins

Multiple drums were stored in the Canadian Bank Note property at the time of the site assessment. A request has been made to a representative (Mr. John McKechnie) from the Canadian Bank Note property for an inventory of the various chemcials on site and any records of previous spills. According to Mr. John Foley (with the CBNC) who was present at the time of the site inspection, chemicals stored on site include various inks, pigments, varnishes, aqueous bonding adhesives, clay compound and rollers. These chemicals are stored in 45 gallon (205 L) drums. As noted previously, some staining was noted on the floor of the storage area, however there was no indication of a significant release. It should be noted that photographs of the interior of the Canadian Bank Note storage area were not permitted at the time of the site assessment.

Oil/Water Separators

As mentioned previously, no in-ground structures including oil-water separators, were observed at the time of the site inspection. Mr. Grant Gentle also indicated that to his knowledge there are no existing or former oil/water separators located in the subject building.

Vehicle Equipment and Maintenance Areas

There were no vehicle equipment and maintenance areas present at the site.

On-Site Spills

Based on historical research, current searches and inquiries made as part of this assessment and available information to date as well as observations made during the site visit, there have been no significant on-site spills or releases. A request has been made to the Canadian Bank Note Company for information pertaining to any spills that may have occurred in the CBNC storage area. A response had not been received at the time of issuance of this report.

As discussed in previous sections, minor staining was noted in several areas throughout the building, however the stain were not located near potential discharge locations and are not considered to pose a significant concern to the subject property.

Liquid Discharge Points

As discussed previously, in the section entitled *Sumps, Pits and Drains*, the liquid discharge from the subject property includes the washwater and sewage from the building and the water from the floor drains and sump pit. The sump pit was located in the boiler room situated along the eastern wall of the subject structure. The sump pit, approximately 1 m in depth, is suspected to be original with the construction of the building in the 1950's. Water was present in the pit at the time of the inspection. The water appeared cloudy at the time of the site assessment, however no hydrocarbon sheen or unusual odour was noted.

Mr. Gentle indicated that a sump pump is located in the elevator pit, which was not accessible at the time of the site inspection. He indicated that the pit is approximately 2 m deep and has been dry in the past. A photo of a portion of the pit is shown in Photograph 5.

Several floor drains were observed at the time of the site inspection. A floor drain was observed in the mechanical room containing the air handling equipment. Water was ponded around the drain at the time of the assessment. The water was clear and no signs of contamination were observed. A floor drain was observed in the basement hallway (within the northern portion of the subject building). It was not possibly to open the drain cover at the time of the inspection. A floor drain was also observed in the ground floor level CBNC storage area. The drain appeared to be dry upon inspection. A floor grate, extending the length of the basement-level CBNC storage area was noted at the time of the inspection. It was not possible to inspect the length of the floor grate as the majority of it was covered with stored items. However, the drain led to a catch basin at the base of the entrance ramp, which was inspected. The basin was approximately 1 m deep and the water inside was observed to be clean with no hydrocarbon sheen or odour and is shown in Photograph 6.

Building plans showing the location of the floor drains were not available. However, the location of the elevator pit and approximate locations of the sump pit and floor grate and catch basin located in the CBNC storage area are shown on Drawing PE2357-2.

All floor drains and sump pits discharge to the municipal sewer system.

Hydraulic Equipment

As previously discussed, a piston elevator is present in the subject building. The elevator was reportedly decommissioned three (3) years ago. The elevator room was accessible at the time of the inspection. Some staining was observed on the poured concrete floor around the elevator pump and around three (3) small containers of hydraulic fluid stored on the floor. The elevator pit was not fully accessible at the time of the site inspection, however it was possible to view a limited portion of the pit. What appeared to be water and rust stains were present on the concrete floor of the pit and are shown in Photograph 5.

No other hydraulic equipment, such as hydraulic lifts, in-ground hoists or loading-dock lifts were observed at the time of the site assessment. Two (2) loading docks with spring-loaded equipment are present at the subject site. The remaining loading areas have been constructed with ramps. The loading docks/areas present on site are not considered to pose a concern to the subject property.

6.4 Neighbouring Properties

An inspection of the neighbouring properties were conducted from publicly accessible roadways at the time of the site assessment. Several potentially contaminating activities were identified within the Phase I ESA study area, and are presented in Table 4 below.

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Address	Activity	Approximate Distance/Orientation from Subject Site	Potential Environmental Concern for Subject Site (Y/N)
305 Clifton Road	Hydro Sub-Station	120 m -NW	Ν
81 Richmond Road	Legacy Auto Centre	315 m - E	
145 Richmond Road	Canadian Bank Note	20 m - E	Ν
225 Richmond Road	Otto's Subaru	165 m - W	Ν
256 Richmond Road	Retail fuel outlet	275 m - SW	Ν
320 McRae Avenue	Autorebex service garage	185 m - NW	Ν
330 McRae Avenue	Gifford Automotive Centre Otto's Collision Centre	180 m - NW 175 m - W	N N

The current uses of the immediately adjacent properties and the other neighbouring properties in the Phase I study area are not considered to pose an environmental concern to the subject site, based on their distances and/or locations down- or crossgradient with respect to the subject property. Current land use in the Phase I study area is illustrated on Drawing: PE2357-2 - Surrounding Land Use in the Figures section of this report, following the text.

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 5: Land Use History							
Year	Name of Owner	Description of Property Use	Property Use	Other Observations from Aerial Photographs, Fire Insurance Plans, Etc.			
Prior to 1915	Fred A. Heney	Likely vacant or residential	Likely vacant or residential	N/A			
1915 to 1921	Robert M. Arbuthuot	Likely vacant or residential	Likely vacant or residential	N/A			
1921 to 1922	Joseph G. McGuire	Likely vacant or residential	Likely vacant or residential	N/A			
1924 to 1950	Winnifred Plaunt	Residential	Residential	Residential structure can be seen in 1945 aerial photo			
1950 to 1977	Canadian General Electric Co. Ltd.	Canadian General Electric Co. Ltd.	Residential and later Commercial (Canadian General Electric Company)	Existing structure can be seen in 1953 aerial and 1956 FIP			
1977 to 1995	Max Cantor	Commercial	Various commercial retail and restaurants, as well as Guillevin International electrical supply wholesaler	City Directories			
1995 to 1997	The Imperial Life Assurance Company of Canada	Commercial	Various commercial retail and restaurants, as well as Guillevin International electrical supply wholesaler	City Directories			

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North Bay

Table 5 Contir	Table 5 Continued: Land Use History						
Year	Name of Owner	Description of Property Use	Property Use	Other Observations from Aerial Photographs, Fire Insurance Plans, Etc.			
1997 to 2005	122856 Canada Limited	Commercial	Various commercial retail and restaurants, as well as Guillevin International electrical supply wholesaler	City Directories			
Oct, 2011 to present	Claridge Homes (Westboro) Inc.	Commercial	Rob's Music, Nana's Beauty Products and Supplies, Marlin Travel, Elation Centre, Gotta Paint, Guillevin International, Canadian Bank Note storage, Church of the Pentecost, Genivar	Site Visit			

Potentially contaminating activities were identified on the subject site with the former use of the site for manufacturing purposes (Canadian General Electric Company Limited) as well as the former use of an underground fuel storage tank (UST) on the subject property. Limited information with regards to the Canadian General Electric Company Limited operations was available at the time of the assessment. It was reported by Mr. Grant Gentle that the operations consisted of the manufacturing of fridges and stoves on the second and third floors of the subject structure. Mr. Gentle also indicated that at the time of the UST removal, the UST was in poor condition and a fuel odour was coming from the excavation.

7.2 Areas of Potential Environmental Concern and Potential Contaminating Activities

Areas of potential environmental concerns identified with the Phase I property, at the time of the site assessment, are provided in Table 6 below.

Table 6: 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 on-site underground fuel storage tank (UST)	Exterior of Phase 1 Property, along east wall of subject structure	Leakage from former UST	on-site	Petroleum Hydrocarbons (PHCs - F_1 - F_4) and Benzene, Ethylbenzene, Toluene and Xylenes (BTEX)	Soil and Groundwater		
Former on-site operations associated with the Canadian General Electric Company	Interior/exteri or of subject structure	Use, storage and disposal of potential chemicals associated with manufacturing process or equipment	on-site	Volatile Organic Compounds (VOCs), PHCs and metals	Soil and Groundwater		
Storage of various Canadian Bank Note products	Interior of northern portion of subject structure	Storage of chemicals including ink, ink pigments, adhesives and varnishes	on-site	VOCs and metals	Soil and Groundwater		
Hydraulic elevator	Interior of subject property	In-ground hydraulic structure	on-site	PHCs	Soil and Groundwater		
Former Crain Printers facility and Transport operation	Southern portion of Phase I property	Use, storage and disposal of chemcials associated with site operations	off-site	PHCs, VOCs	Soil and Groundwater		

A Phase II ESA was conducted in 2009 and a more recent Supplemental Phase II ESA was conducted in October of 2011. Based on the field observations and analytical test results, both the former Crain Printers facility located south of the site and any potential General Electric activities located on the exterior of the site are not considered to have impacted the subject property. The initial Phase II ESA identified soil and groundwater contamination in the vicinity of the former UST. The Canadian Bank Note storage area was not identified as a potential area of concern during the previous Phase I ESA, as no staining was identified and no spills were reported. It was therefore not addressed as part of the Phase II ESA. At the time of the previous investigation, it was recommended that the contractor that decommissioned the elevator be contacted to determine the condition of the equipment at that time. Both Mr. Gentle and the representative from District Realty present at the time of the site inspection, were unaware of any attempts to address this recommendation.

The former Crain Printers facility was addressed during the previous subsurface investigations and are not considered to have impacted the subject property. A borehole was also placed to address the Canadian Bank Note property although based on its location across Kirkwood, cross-gradient to the site, it was not considered to have the potential to significantly impact the property. Based on the results of the subsurface investigations, these two properties are not considered to have impacted the subject site.

7.3 Conceptual Site Model

Existing Buildings and Structures

The subject site is occupied by a one (1) to two (2) storey commercial building with a partial basement level. The location of the subject structure is shown on Drawing PE2357-3 - Conceptual Site Model.

The immediately adjacent properties to the west (of the northern portion of the property) and south (across Wilber Avenue) are occupied by residential dwellings. The property adjacent to the west of the southern portion of the site is occupied by a commercial retail property. The property to the east (across Kirkwood Avenue) is occupied by the Canadian Bank Note Company Ltd. and the property to the south (across Richmond Road) is occupied by The Great Canadian Superstore. The uses of the properties in the Phase I study area are indicated on the Conceptual Site Model.

Water Bodies and Areas of Natural Significance

There are no water bodies on the subject site or within the Phase I study area. No areas of natural significant were observed on the site or within the Phase I study area, nor are any expected to be present based on the information provided in the Ministry of Natural Resources' electronic GIS mapping system.

Drinking Water Wells

The properties in the Phase I Study area are currently serviced by municipal water and sewer services. According to the MOE Well Records several properties within the Phase I study area were serviced with potable wells in the 1940's and 1950's. A well record exists for the decommissioning of a potable well at the property at 145 Richmond Road (Canadian Bank Note Company).

Neighbouring Land Use

Nieghbouring land use in the Phase I study area was predominantly residential and commercial with several institutional properties. Several potentially contaminating activities were observed in the study area and are listed in Table 4 (Section 6.4). No significant environmental concerns were identified in the Phase I study area.

Areas of Potential Contaminating Activities and Potential Environmental Concerns

Areas of potential contaminating activities and potential environmental concerns identified on the site at the time of the site assessment include signs (distribution line and asphalt cut) indicating the former use of an underground storage tank (UST), as well as the storage of Canadian Bank Note chemcials and the hydraulic piston elevator located within the subject structure.

Based on previous subsurface investigations it is known that soil and groundwater contamination in excess of the current MOE standards, is present on site in the vicinity of the former underground storage tank.

According to Table 2 of Ontario Regulation 179/11, the storage of ink and pigments is considered to be a potentially contaminating activity. Some staining was noted on the concrete floor, however the floor was in good condition and no indications of a significant release in the vicinity of potential discharge locations (the floor drain along the eastern wall) were observed. To the knowledge of Mr. John Foley, the Canadian Bank Note representative on site at the time of the site assessment, there have never been any significant quantities of chemicals spilled on site.

A hydraulic elevator is present on site. The elevator room was accessible at the time of the site assessment. It was possible to view a portion of the interior of the pit from the elevator room. Apparent water and rust stains were noted on the floor of the pit as shown in Photograph 5. According to Mr. Grant Gentle, the pit has in the past been dry and to his knowledge there are no potential concerns associated with the elevator.

Small quantities of various chemcials, including dipping glaze and ceramic paint (Gotta Paint), hydraulic oil (elevator room) and cleaning and maintenance chemicals as well latex paint and adhesives were observed in the building. All chemicals were properly stored in sealed containers. Minor staining was observed on the poured concrete floor in the elevator room and in Gotta Paint. The staining was contained to a limited area away from potential discharge locations. An unknown substance was observed in a basement mechanical (air handling equipment) room. The substance was contained in a 20 L pail. Minor staining was located on the concrete floor around the pail. The floor was in good condition and no potential discharge locations were located in the immediate vicinity.

As discussed previously, several potential contaminating activities were observed in the Phase I study area at the time of the site assessment. None of the potentially contaminating activities identified are considered to pose a concern to the subject property based on their distance and or orientation (down- or cross-gradient) with respect to the subject site.

8.0 CONCLUSIONS

Assessment

The results of the historical research and site assessment identified the following potential contaminating activities and potential environmental concerns on the Phase I property: the former use of an underground fuel oil storage tank, the former use of the site by the Canadian General Electric Company for the manufacturing of fridges and stoves, the current storage of Canadian Bank Note Company inks, pigments and varnishes and the existing hydraulic piston elevator. The former Crain Printers facility (south of the site across Richmond Road) was considered to have the potential to impact the subject property.

Previous subsurface environmental investigations were conducted for the Phase I property, to address the above mentioned concerns (with the exception of the elevator and CBNC chemical storage). Soil and groundwater contaminated in excess of the current 2011 MOE Table 3 standards for a residential land use is present on site, in the vicinity of the former underground storage tank (UST). No visual or olfactory signs of contamination were identified in the soil collected from boreholes placed on the northern portion of the site to address potential issues with the former use of the site by the Canadian General Electric Company. No VOC's were identified in the groundwater sample collected from the borehole placed on the southern portion of the site to address the former Crain Printers facility.

Based on the results of this assessment, it is our opinion that a soil and groundwater remediation program is required for the subject property.

Recommendations

Contaminated soil and groundwater have been identified in the area of the former onsite underground fuel storage tank nest. It is recommended that a soil and groundwater remediation program be conducted in this area to remove and dispose of the soil and groundwater in excess of the MOE Table 3 standards for a residential land use. It is also recommended that an additional soil and groundwater sampling program be conducted for the soil beneath the Canadian Bank Note Company storage area and the elevator pit. All waste chemicals should be removed from the property and properly disposed of as soon as possible. Impacted soil must be disposed of at an approved waste disposal facility. A leachate analysis in accordance with Ontario Regulation 347/558, will be required prior to disposal. It is also recommended that Paterson personnel be present at the time of the additional sampling program, and also during the removal of the impacted soil and groundwater to provide direction and obtain confirmatory samples upon the completion of the remediation program.

9.0 STATEMENT OF LIMITATIONS

This Phase I - Environmental Site Assessment report has been prepared in general accordance with the agreed scope-of-work, in compliance with O. Reg. 511/09 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 Claridge Homes. Permission and notification from Claridge Homes and Paterson will be required to release this report to any other party.

Paterson Group Inc.

Kaup Munch:

Karyn Munch, P.Eng.



Mark S. D'Arcy, P.Eng.

Report Distribution:

Claridge Homes (6 copies and 1 PDF copy) 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. PCB Waset 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 Signficance. MOE Water Well Inventory.

Municipal Records

City of Ottawa Historical Land Use Inventory. City of Ottawa Former Landfill Document. City of Ottawa Former Industrial Sites Document. City of Ottawa electronic map.

Local Information Sources

Chain of Title obtained through Read Abstracts Limited, November 24, 2011. Current Plan of Survey, prepared by Annis, O'Sullivan, Vollebekk Ltd. Previous Engineering Reports. Personal Interviews.

Public Information SourcesB

Google Earth Google Maps/Street View

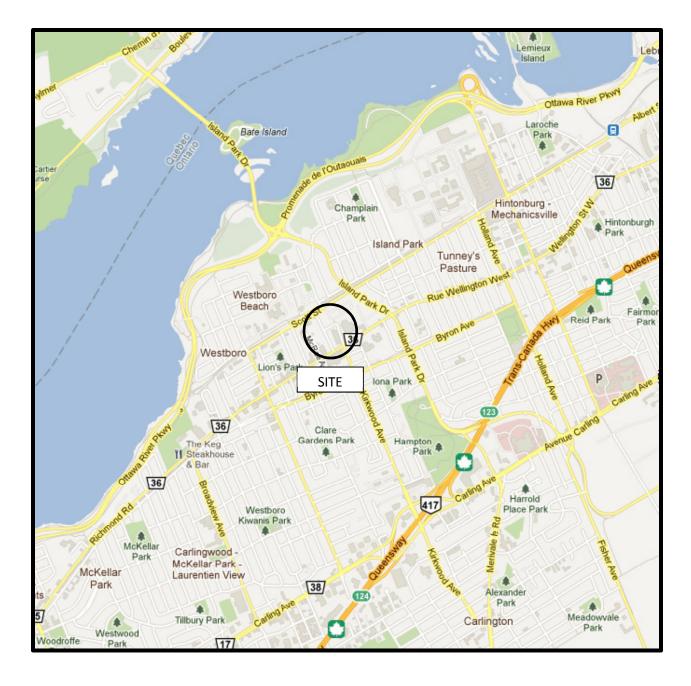
FIGURES

FIGURE 1 - KEY PLAN

FIGURE 2 - TOPOGRAPHIC MAP

DRAWING PE2357-2 - SURROUNDING LAND USE PLAN

DRAWING PE2357-3 - CONCEPTUAL SITE MODEL



<u>figure 1</u> KEY PLAN

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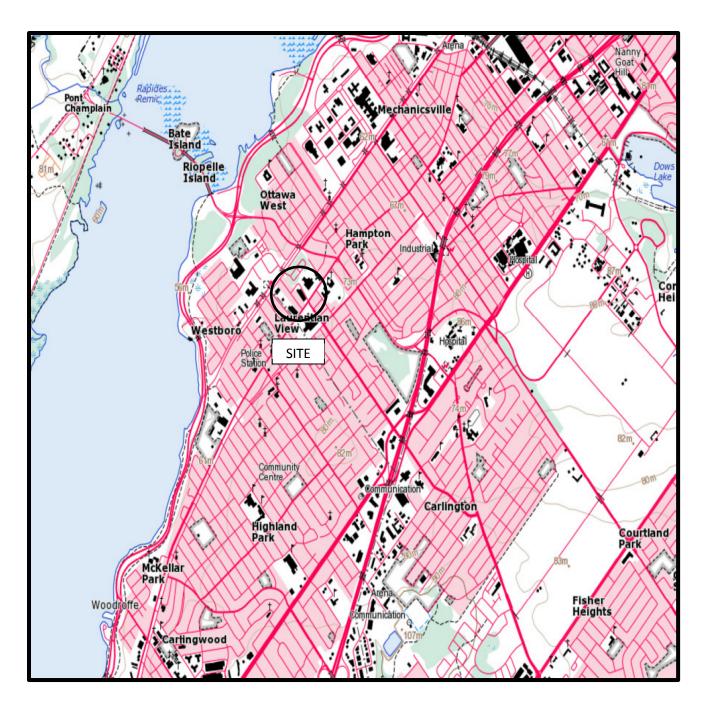
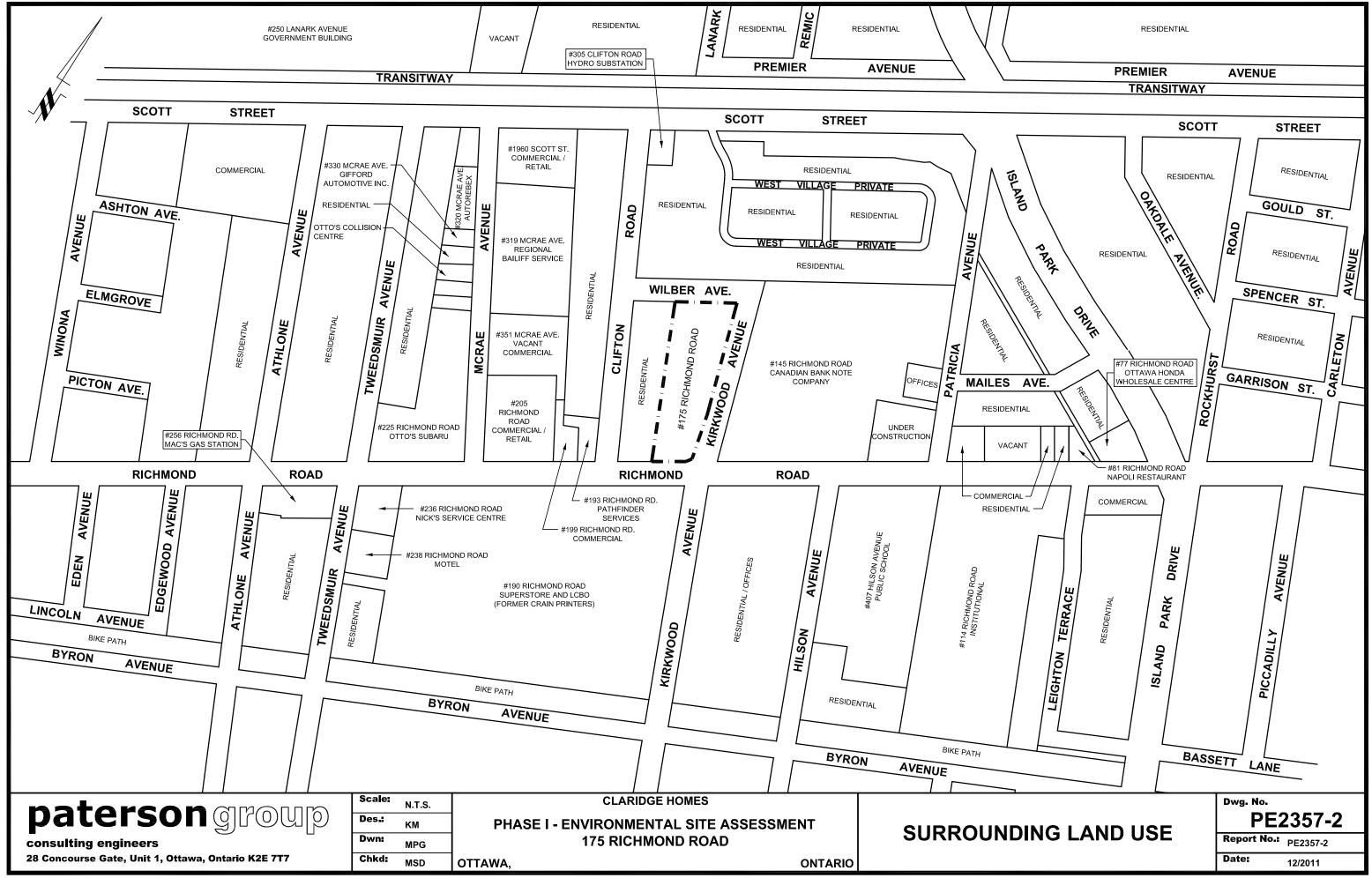
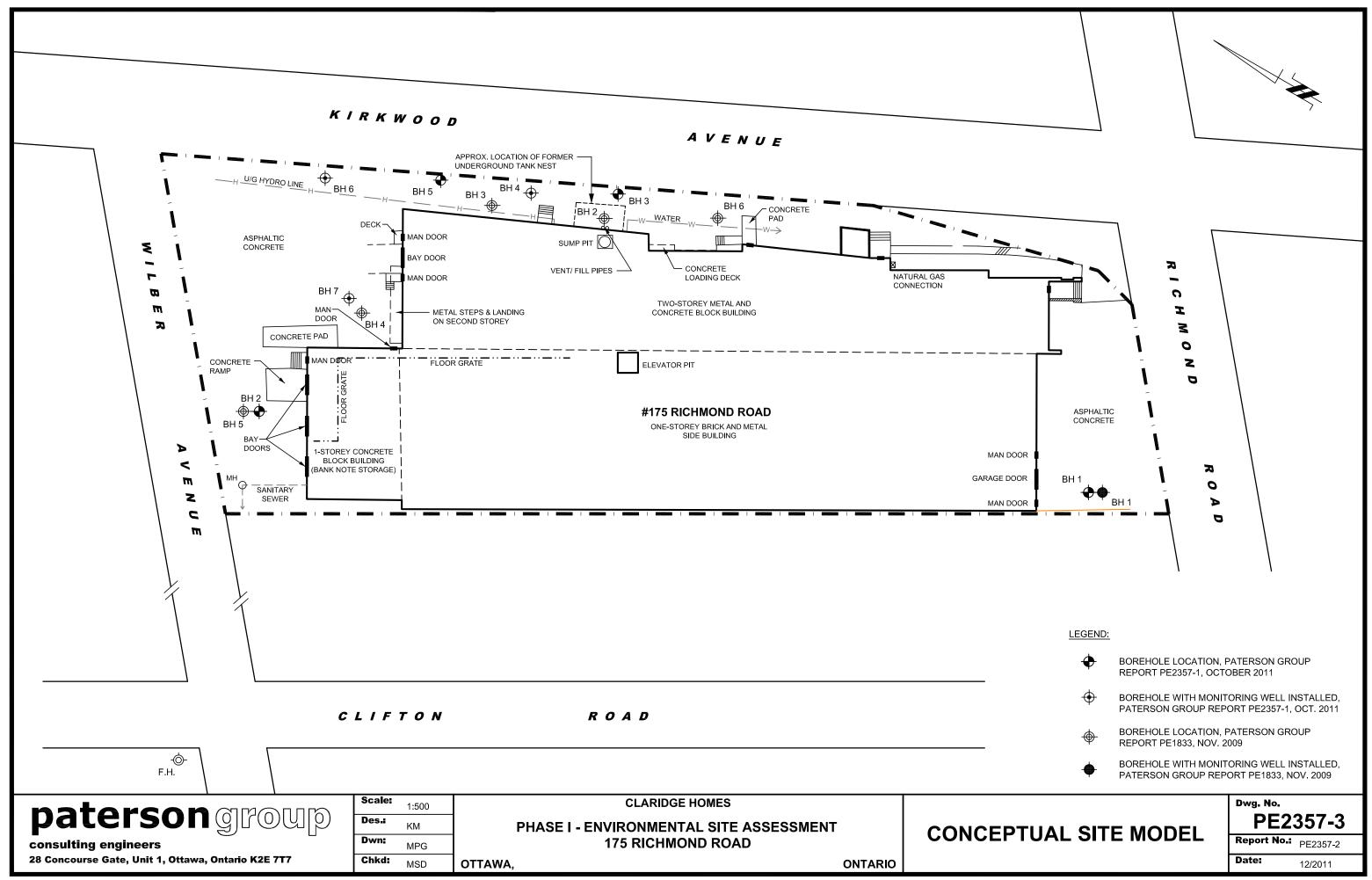


FIGURE 2 TOPOGRAPHIC MAP





APPENDIX 1

CHAIN OF TITLE PLAN OF SURVEY AERIAL PHOTOGRAPHS SITE PHOTOGRAPHS ENVIRONMENTAL SEARCH Att: Karyn Munch Ref: 175 Richmond Road, Ottawa PIN: 04021-0073 Part lot 1, Plan 376, as in N723397; Lots 2 to 5, Plan 376 City of Ottawa November 21, 2011

Deed 29619 registered Aug 11, 1915 From Fred A. Heney to Robert M. Arbuthuot

Deed 34969 registered Sept 21, 1921 From Robert M. Arbuthuot to Joseph G. McGuire

Deed 35576 registered May 15, 1922 From Joseph G. McGuire to Amie J. McGuire

Deed 37315 registered April 4, 1924 From Amie J. McGuire to Winifred M. Plaunt

Deed 156111 (aka 56111) registered Nov 2, 1946 From Estate of Fred A. Heney and Ida M. Heney to Canadian Bank Note Company Limited

Deed 4548 registered Dec 20, 1950 From Canadian Bank Note Company Limited to Canadian General Electric Co. Ltd.

Deed 4549 registered Dec 20, 1950 From Winifred M. Prtichard (formerly Plaunt) to Canadian General Electric Co. Ltd.

Deed 716815 registered Sept 16, 1977 From Canadian General Electric Company Limited to Max Cantor to uses

Lease 716817 registered Sept 16, 1977 From Max Cantor to Canadian General Electric Company Limited

Lease 716818 registered Sept 16, 1977 From Max Cantor to Canadian Appliance Manufacturing Company Limited

Lease NS41866 registered June 10, 1979 From Max Cantor to Paul A. Thibodeau, in trust Assignment of lease NS41867 registered June 10, 1979 From Paul A. Thibodeau, in trust to The Soup Kettle Restaurant Ltd.

Lease NS128538 registered Aug 27, 1981 From Max Cantor to Charles Finkelstein

Deed N645858 registered Dec 21, 1992 From Max Cantor to Elsa Cantor

Deed N672300 registered Sept 21, 1993 From Elsa Cantor to Max Cantor

Foreclosure N723397 registered July 10, 1995 In favour of The Imperial Life Assurance Company of Canada

Deed 1059186 registered July 16, 1997 From The Imperial Life Assurance Company of Canada to 122856 Canada Limited

Lease OC454374 registered April 22, 2005 From 122856 Canada Limited to Zenix Engineering Ltd.

Deed OC1291968 registered Oct 6, 2011 From 122856 Canada Limited to Claridge Homes (Westboro) Inc.



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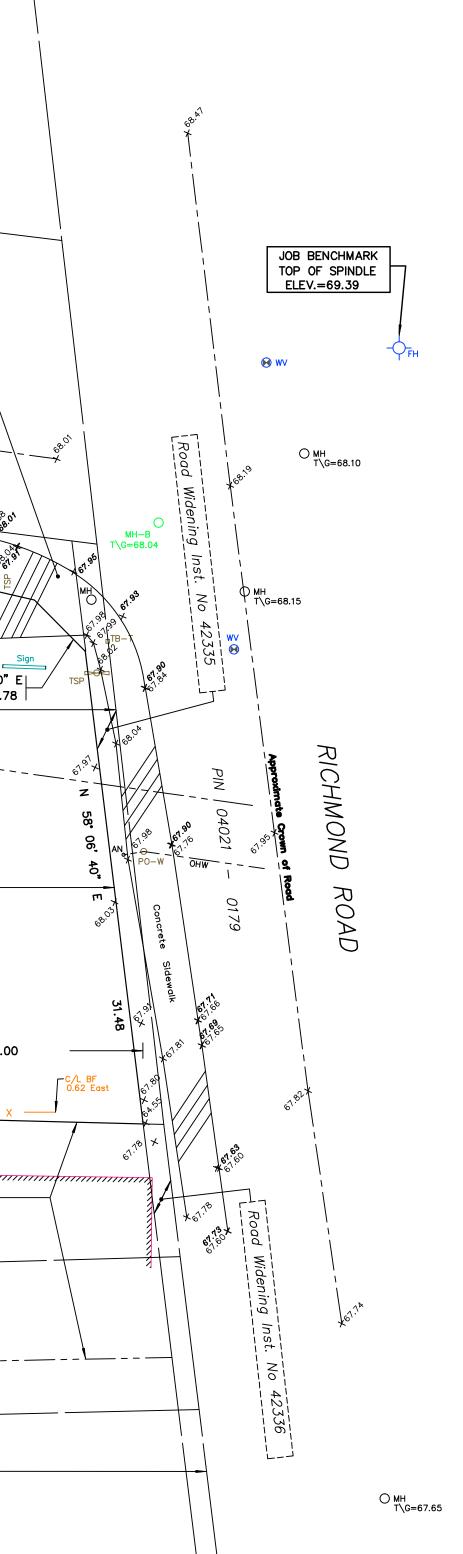
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CLIFTON ROAD

TOPOGRAPHICAL PLAN OF

PART OF LOT 1 AND ALL OF LOTS 2, 3, 4 AND 5 REGISTERED PLAN 376 CITY OF OTTAWA

Surveyed by Annis, O'Sullivan, Vollebekk Ltd. Field Work Completed



1

Scale 1:250

Metric DISTANCES SHOWN ON THIS PLAN ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048

Edward M. Lancaster, O.L.S.

Date

Notes & Legend

	Denotes	
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o B	"	Bollard
СВ	II	Catch Basin
T/G	н	Top of Grate
Омн	II	Maintenance Hole (Unidentified)
⊖ мн-в	"	Maintenance Hole (Bell Telephone)
□ TB−T	"	Traffic Terminal Box
\$		Borehole
₩ V	н	Water Valve
• AN	н	Anchor
CLF	н	Chain Link Fence
O P0-W		Wood Pole
BF	"	Board Fence
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+65.00	н	Location of Elevations
+65.00	"	Location of Elevations (Top of Curb)
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	"	Property Line
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Overhead Wire Gas Meter

Topographic data was collected under Winter Conditions. Snow cover and ice preclude determining location and elevation of some topographical data that is otherwise visible.

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🗖 GM

BOUNDARY INFORMATION DERIVED FROM FIELD SURVEY, REGISTRY OFFICE RESEARCH AND OFFICE RECORDS.

ELEVATION NOTES

- Elevations shown are referred to geodetic datum.
 It is the responsibility of the user of this information to verify that the job benchmark has not been altered or disturbed and that it's relative elevation and description agrees with the information shown on this drawing.
- UTILITY NOTES
- This drawing cannot be accepted as acknowledging all of the utilities and it will be the responsibility of the user to contact the respective utility authorities for confirmation.
- 2. Only visible surface utilities were located.
- 3. A field location of underground plant by the pertinent utility authority is mandatory before any work involving breaking ground, probing, excavating etc.



ANNIS, O'SULLIVAN, VOLLEBEKK LTD. 14 Concourse Gate, Suite 500 Nepean, Ont. K2E 7S6 Phone: (613) 727-0850 / Fax: (613) 727-1079 Email: Nepean@aov/td.com Job No. 11843-11 Cloridge Lts 1-5 PL 376 T F



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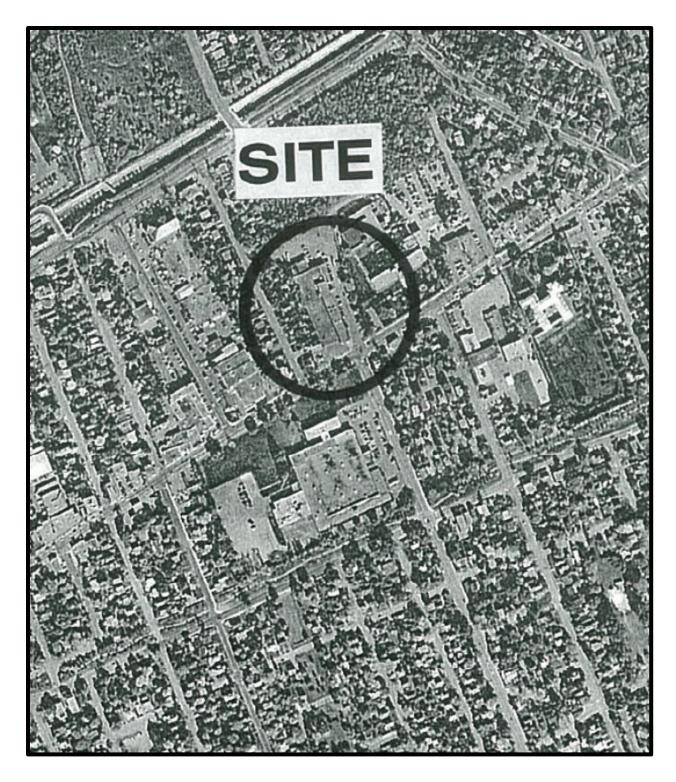
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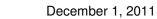
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Site Photographs

175 Richmond Road, Ottawa, Ontario





Photograph 1: South wall of western portion of the building, facing north.



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Photograph 2: South wall of eastern portion of the building, facing north.

PE2357

Site Photographs

PE2357

175 Richmond Road, Ottawa, Ontario

December 1, 2011



Photograph 3: East wall of southern portion of the building, facing northwest.



Photograph 4: South wall of the northern portion of the building, facing south.

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Site Photographs

PE2357

175 Richmond Road, Ottawa, Ontario

December 1, 2011



Photograph 5: Floor of elevator pit.



Photograph 6: Sump pit in boiler room.



APPENDIX 2

MOE FREEDOM OF INFORMATION REQUEST

TSSA CORRESPONDENCE

CITY OF OTTAWA HISTORICAL LAND USE INVENTORY REQUEST

MOE WELL RECORDS

Ministry of the Environment

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

Karyn Munch Paterson Group Inc. 1 - 28 Concourse Gate Ottawa, ON K2E 7T7

Dear Karyn Munch:

RE: Freedom of Information and Protection of Privacy Act Request Our File # A-2011-05182, Your Reference PE2357

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: 175 Richmond Road, Kirkwood West, Ottawa. 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 Liz Mico at (416) 212-0559.

Yours truly, Heidi Ritscher **FOI** Manager

l'Environnement

Ministère de

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. : (416) 314-4285



November 15, 2011

Ministry of the Environment

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

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. : (416) 314-4285



November 6, 2009

Cynthia Tremblay Paterson Group Inc. 1 - 28 Concourse Gate Ottawa, ON K2E 7T7

Dear Cynthia Tremblay:

RE: Freedom of Information and Protection of Privacy Act Request Our File # A-2009-04085, Your Reference PE1833

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: <u>175 Richmond Road</u>, Ottawa. 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 Liz Mico at (416) 212-0559.

Yours truly,

Donna Currie FOI Coordinator Freedom of Information and Protection of Privacy Office Ministry of the Environment

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

Cynthia Tremblay Paterson Group Inc. 1 - 28 Concourse Gate Ottawa, ON K2E 7T7

Dear Cynthia Tremblay:

RE: Freedom of Information and Protection of Privacy Act Request Our File #: A-2009-04085, Your Reference #: PE1833

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 175 Richmond Road, Ottawa.

After a thorough search of the Ministry's Ottawa District Office, Investigations and Enforcement Branch, Environmental Monitoring and Reporting Branch, Sector Compliance Branch and Safe Drinking Water Branch, records were located in response to your request. It is my decision to provide partial access to the attached information as the identity of complainants has been removed to protect privacy (Section 21(1)(f) of the Act).

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

•	Search Time 1 hour @ \$30/hour	\$30.00
•	Copying 4 pages @ \$0.20/page	\$0.80
•	Delivery	3.00
•	Total	\$ 33.80
•	Deposit Received	- 30.00
•	BALANCE WAIVED (NOT REQUIRED)	\$ 3.80

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

If you have any questions regarding this matter, please contact Erin Coulter at (416) 327-1985.

Yours truly,

Donna Currie FOI Coordinator Freedom of Information and Protection of Privacy Office

Attachments

Ministère de l'Environnement

12^e étage

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

40, avenue St. Clair ouest

Toronto ON M4V 1M2

Tél.: (416) 314-4075

Téléc. : (416) 314-4285



December 17, 2009

Ontario

Ministry of the Environment

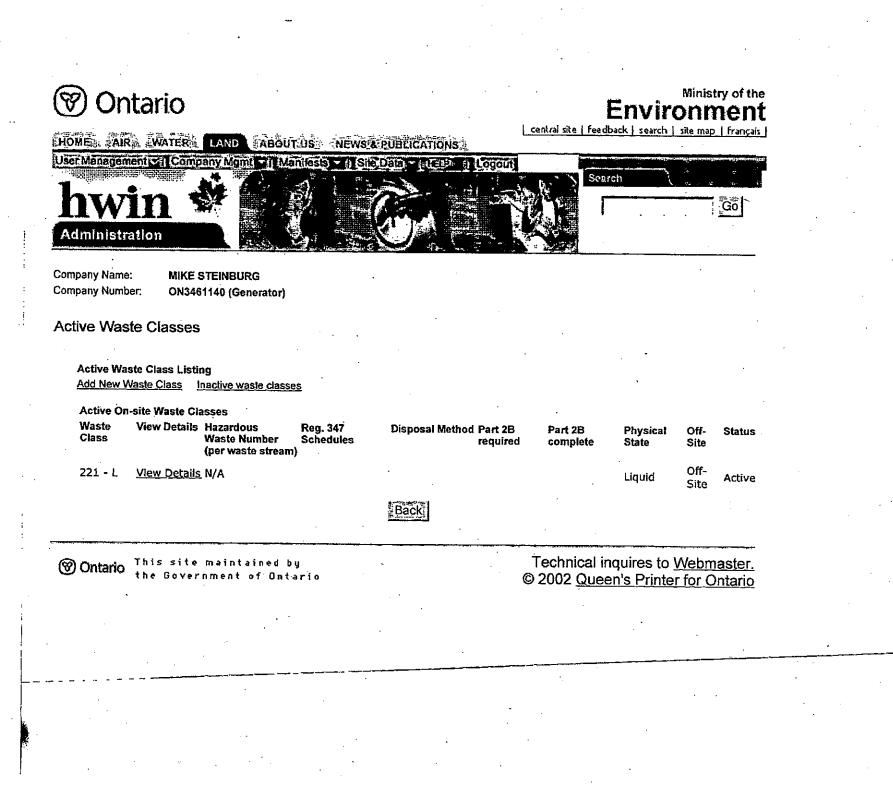
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Ontario

Ministry of the Environment

Location of Occurence:		Source:			
OTTAWA CITY		PRO RESTAURANT EQ			
175 RICHMOND ROAD		RE-SELLER OF RESTAURANT EQUIPMENT			
		Sector: SI Source: OT S	IC: 9999		
Reg: 4 Dist: OT Municipal	ity: 20101				
•		N: (] E: (] Zone: ()			
Entered:	ORIS No.	Abstracts: 0	Diaries:		
1997/06/24 15:09	9740001109	/			
Received By:		Batch:	I. E. B. No.		
TOR RUSTAD		2523			
Occurence Type:	Subtype:	Occurence Date:			
C	99				
Work Plan:	11	Occurence Time:			
		Report to MOE: 1997/0	6/24 13:15		
•		MOE at Scene: 97/08/15			
. –	Alternate No.	Assigned To:	TOR RUSTAD		
	x	rosigned for	TOR ROSTAD		
Address:	^				
Address,		ERP Contacted:	NSP: []		
		ERP Name:	мэг. Ц		
Postal Code:		ENP Mante.			
Syn: PRO RESTAURANT	EQUIPMENT- RELEASE OF CFC'S	TOATMOSPHERE			
Brief Summary:					
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Company Operating Name		Sindon Hanio.					
Primary Name:	DISTRICT REALTY	Division Name:	NA				
Mailing Address					•		· · ·
Division Building:	NA	Post Box Number:	NA				
Address Line 1:	50 BAYSWATER	Address Line 2:	NA				
Town/City:	OTTAWA	Postal Code / Zip Code:	K1Y 2E9	·			
County: (if inside Ontario)	OTTAWA CARLTON (RM)	Province/State (If inside Canada/US)	ONTARIO				
County: (if outside Ontario).	NA	Province / State (If outside Canada / US)	NA				· · ·
Country:	Canada						
Site Location							
This should be the street add	ress of the site that is being registe			t generates hazardous wast	e separately.		
Division Building:	NA	Post Box Number:	NA		•		
Address Line 1:	175 RICHMOND RD	•					
Address Line 2:	NA /	Dented On der (75-: On dass frei					
Town/City: County: (if inside Ontario)	OTTAWA	- Postal Code / Zip Code: *** Province / State (If inside	K1Z 6W3				
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Karyn Munch

From: spng@tssa.org on behalf of publicinformationservices@tssa.org Sent: November-03-11 4:29 PM To: Karyn Munch Subject: Re: Records Search - PE2357 (Part 2) [REF:10629829893]

Hi Karyn,

In order to avoid any delays, in the future please direct all your information requests to 'publicinformationservices@tssa.org'.

Thank you for your inquiry.

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

190 Richmond Rd, Ottawa has record of an active cylinder exchange facility.

For a more detailed report including underground fuel storage tank details and copies of all inspection reports, please submit your request in writing to Public Information Services via e-mail (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!

Sarah Png **Public Information Services**

"Putting Public Safety First"

Technical Standards and Safety Authority 14th Floor, Centre Tower 3300 Bloor Street West Toronto, ON M8X 2X4

Toll-Free: 1-877-682-8772 Email: publicinformationservices@tssa.org Web Site: www.tssa.org

TSSA Customer Service ctscs@atoracle.com>

11/03/2011 03:40 PM

Please respond to customerservices@tssa.org

cc Subject Re: Records Search - PE2357 (Part 2) [REF:10629829893]

To publicinformationservices@tssa.org

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Please read below email and kindly assist, thank you!
Reply email to: KMunch@patersongroup.ca
---- Original Message ----
Good morning,
Could you please search for records for the following addresses in the
City of Ottawa.
193, 190, 181, 177, 175, 164, 160, 150, 148, 145 Richmond Road
Also, please note that the addresses in my last email were in the City
of Ottawa as well!
Best Regards,
Karyn Munch, P.Eng.
patersongroup
28 Concourse Gate, Unit 1
Ottawa, Ontario K2E 7T7
Tel: (613)226-7381
```

Fax: (613)226-6344

This electronic message and any attached documents are intended only for the named addressee(s). This communication from the Technical Standards and Safety Authority may contain information that is privileged, concopied, forwarded or distributed without authorization. If you have received this message in error, please notify the send Thank you.

Karyn Munch

From:spng@tssa.org on behalf of publicinformationservices@tssa.orgSent:November-03-11 4:26 PMTo:Karyn MunchSubject:Re: Records Search - PE2357 (Part 1) [REF:10629733358]

Hi Karyn,

In order to avoid any delays, in the future please direct all your information requests to 'publicinformationservices@tssa.org'.

Thank you for your inquiry.

We have no record in our database of any fuel storage tanks at the subject address (addresses).

For a further search in our archives please submit your request in writing to Public Information Services via e-mail (<u>publicinformationservices@tssa.org</u>) 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!

Sarah Png Public Information Services

"Putting Public Safety First"

Technical Standards and Safety Authority 14th Floor, Centre Tower 3300 Bloor Street West Toronto, ON M8X 2X4

Toll-Free: 1-877-682-8772 Email: <u>publicinformationservices@tssa.org</u> Web Site: <u>www.tssa.org</u>

TSSA Customer Service pectscs@atoracle.com

To publicinformationservices@tssa.org

Subject Re: Records Search - PE2357 (Part 1) [REF:10629733358]

Please respond to customerservices@tssa.org

11/03/2011 03:39 PM

Please read below email and kindly assist, thank you!

сс

Reply email to: KMunch@patersongroup.ca

```
---- Original Message ----
Good morning,
```

Could you please search your records for any storage tanks or incidents at the following addresses:

188, 185 Wilbur Street

343, 351, 353, 355, 361, 363, 365, 369 Clifton Road

Best Regards,

Karyn Munch, P.Eng.

patersongroup

28 Concourse Gate, Unit 1

Ottawa, Ontario K2E 7T7

Tel: (613)226-7381

Fax: (613)226-6344

This electronic message and any attached documents are intended only for the named addressee(s).

This communication from the Technical Standards and Safety Authority may contain information that is privileged, con copied, forwarded or distributed without authorization. If you have received this message in error, please notify the send Thank you.



File Number: C10-01-11-0232

November 29, 2011

Karyn Munch Paterson Group Inc. 28 Concourse Gate, Unit 1 Nepean, ON K2E 7T7

Dear Ms. Munch,

Re: Information Request 175 Richmond Road, Ottawa, Ontario ("Subject Property")

Internal Department Circulation

The Infrastructure Services and Community Sustainability Department has the following information in response to your request for information regarding the Subject Property:

• No information was returned on the Subject Property from Departmental circulation.

Search of Historical Land Use Inventory

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

A search of the HLUI database revealed the following information:

• There are 7 activities associated with the Subject Property: Activity Number 1014, 11119, 2053, 2482, 342, 4303 & 6559.

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

• There are 7 activities associated with properties located within 50m of the Subject Property: Activity Number 10796, 14750, 10370, 13814, 2464, 5173 & 2480.

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. 14743 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. 14743 Téléc: (613) 560-6006 www.ottawa.ca Please note that Activity Numbers 14750 & 13814 have 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 or on certain properties within 50m of 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 Numbers with a PIN Certainty of "2".

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 Jessica Krushnisky at 613-580-2424 ext. 14743 or HLUI@ottawa.ca

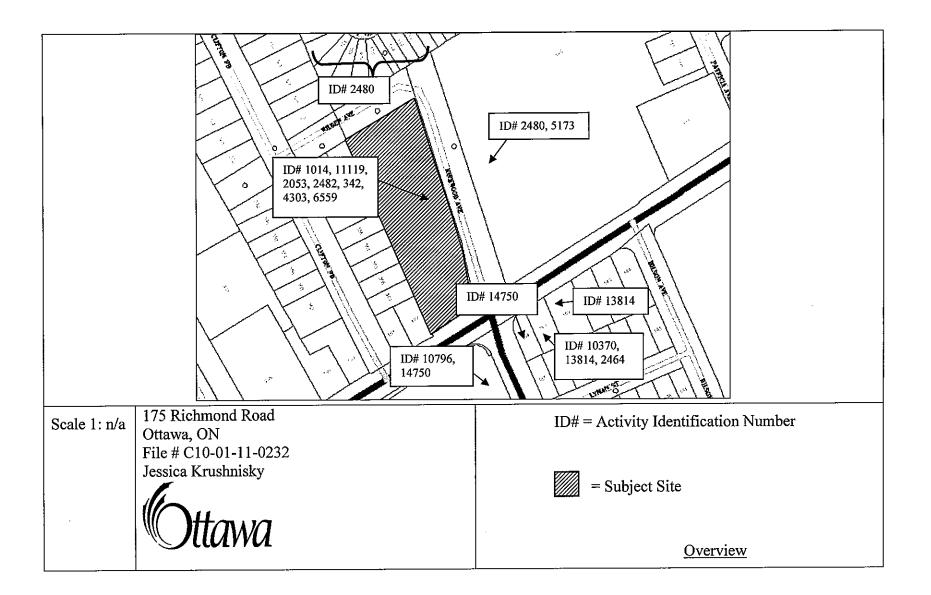
Sincerely,

H Paughtano

Michael J. Boughton, MCIP, RPP Acting Program Manager Development Review (Suburban Services) - West Infrastructure Services and Community Sustainability MB/JK

Attach: 16

cc: File no. C10-01-11-0232





Report:

RPTC_OT_DEV0122

Run On:

29 Nov 2011 at: 09:33:19

Study Year	PIN	Multi-NAIC	Multiple Activities
¹⁹⁹⁸	040210073	Y	Y

Activity ID:	1014	Multiple PINS:	Ν
PIN Certainty:	1	Previous Activity ID(s) :	
Related PINS:	040210073		
Name: Address: Facility Type: Comments 1: Comments 2:	ALBERT & SON ENG 350 KIRKWOOD AVE Platemaking, Typesett Unit A		
Generator Numbe Storage Tanks:			
HL References 1: HL References 2:			
HL References 3:	2000 PID		
NAICS	SIC		
812921	0 0 0		
Company Nam	a		Year of Operation

Company Name	real of Operation
ALBERT & SON ENGRAVERS	c. 2000
ALBERT & SON ENGRAVERS	c. 2001
ALBERT & SON ENGRAVERS	c. 2003

-



Study Year ¹⁹⁹⁸	PII 040	N 1210073	Multi-NAIC Y	Multiple Activities Y
Activity ID:	11119	Multiple PINS:	N	
PIN Certainty:	1	Previous Activity	ID(s) :	
Related PINS:	040210073			
Name: Address:	PRO RESTAURANT EQUIPMENT 175 RICHMOND ROAD, OTTAWA			
Facility Type: Comments 1: Comments 2:		Equipment Rental and Lea	sing Service	
Generator Number	r:			
Storage Tanks:				

HL References 3: 2001 Employment Survey

NAICS	SIC
532490	0

HL References 1: HL References 2:

Company Name

PRO RESTAURANT EQUIPMENT

Year of Operation

Report:

Run On:

RPTC_OT_DEV0122

29 Nov 2011 at: 09:33:19



CITY OF OTTAWA

HLUI ID: __679GOJ

RPTC_OT_DEV0122

Report:

Run On:

29 Nov 2011 at: 09:33:19

AREA (Square Metres): 6370.600

Study Year 1998		'IN 40210073	Multi-NAIC Y	Multiple Activities \widetilde{Y}
Activity ID:	2053	Multiple PINS:	N	
PIN Certainty:	1	Previous Activity	ID(s) :	
Related PINS:	040210073			
Name: Address:		ANUFACTURING & REPAIR OD AVENUE, OTTAWA	S INC.	

Facility Type: Men's and Boys' Clothing Industries

Comments 1: Comments 2:

Generator Number:

Storage Tanks:

HL References 1: HL References 2:

HL References 3: 2001 Employment Survey

NAICS	SIC
315210	0

Company Name

Year of Operation

BREBNER MANUFACTURING & REPAIRS INC.



RPTC_OT_DEV0122 Report: Run On: 29 Nov 2011 at: 09:33:19

		rates (oquaro more	,	
Study Yea 1998	r	PIN 040210073	Multi-NAIC Y	Multiple Activities
Activity ID:	2482	Multiple P	INS: N	
PIN Certaint	y: 1	Previous /	Activity ID(s): 5193	
Related PIN	S: 040	210073		
Name: Address:		NADIAN GENERAL ELECTRIC 5 RICHMOND ROAD, OTTAWA		
Facility Type Comments 1	: Ele	ctric Power Systems Industry		
Comments 2	2:			
Generator N	umber:			
Storage Tan	ks:			
HL Referenc	es 1: FIP	1901,vol2; FIP1912,vol2; FIP1922,v	vol2; FIP1948-309-1304A; FIP1956-309	-4-1304A,vol3; M.1948, M.1955
HL Referenc	es 2:			
HL Referenc	es 3:			
NAICS	SIC			
221112	491			
221113	491			
221121	491			
221111	491			
221119	491			
221122	491			

Company Name

Canadian General Electric Co. Ltd.

Year of Operation

(F-	
\mathbb{M}	Ittawa

CITY OF OTTAWA

HLUI ID: __679GOJ

AREA (Square Metres): 6370.600

Study Year ¹⁹⁹⁸	PIN 040210	073	Multi-NAIC Y	Multiple Activities
Activity ID:	342	Multiple PINS:	N	
PIN Certainty:	1	Previous Activity I	D(s) :	
Related PINS:	040210073			
Name: Address: Facility Type: Comments 1: Comments 2: Generator Number Storage Tanks: HL References 1: HL References 2: HL References 3:		VENUE,		
NAICS	SIC			
339950	D			
Company Name	•		Year of Operat	ion
ART DISPLAY & SIG	SNS		c. 2001	

•

c. 2001

c. 2005

MAP Report Ver: 1

EMERY SIGNS

PAPER SIGN MAN

RPTC_OT_DEV0122

29 Nov 2011 at: 09:33:19

Report:

Run On:



29 Nov 2011 at: 09:33:19

Report: Run On:

Study Year	PIN	Multi-NAIC	Multiple Activities
1998	040210073	Y	Y

Activity ID:	4303	Multiple PINS:	Ν
PIN Certainty:	1	Previous Activity ID(s) :	
Related PINS:	040210073		
Name: Address: Facility Type: Comments 1: Comments 2: Generator Number Storage Tanks: HL References 1: HL References 2:	er:		al Work
HL References 3:	2001 Employment Surve	ey .	
	SIC 0		
Company Name	9		Year of Operation
	NICAL		c. 2001



Run On: 29 Nov 2011 at: 09:33:19

Report:

Study Year	PIN	Multi-NAIC	Multiple Activities
	040210073	Y	Y

Activity ID:	6559	Multiple PINS:	N
PIN Certainty:	1	Previous Activity ID(s) :	:
Related PINS:	040210073		
Name: Address: Facility Type: Comments 1: Comments 2: Generator Numbe Storage Tanks: HL References 1: HL References 2: HL References 3:	er:		and Supplies, Wholesale
NAICS	SIC		
416110	0		
Company Name	e		Year of Operation
	ATIONAL		c. 2001
GUILLEVIN INTER	ATIONAL		c. 2005



Report:

Run Ön:

29 Nov 2011 at: 09:31:45

RPTC_OT_DEV0122

Study Year	PIN	Multi-NAIC	Multiple Activities
1998	040210168	Y	Y

Activity ID:	10796	Multiple PINS:	Ν
PIN Certainty:	1	Previous Activity ID(s) :	1251
Related PINS:	040210168		
Name: Address:	R. L. CRAIN LIMITED 190 RICHMOND ROA		
Facility Type:	Other Machinery and I	Equipment Industries	
Comments 1:	Pre 1950 this property of property.	was located in Nepean. It	is now a part of Ottawa. Company occupies 10 acres
Comments 2:	They manufactured products such as business forms R. L. Crain Ltd. Generator #ON0146302 (waste generator) Crain-Drummond Inc. Generator #ON0249903 (waste generator)		
Generator Number	r:		
Storage Tanks:	Two (2) 1000 gallon UST	(fuel oil) and one (1) 500 gallo	on UST (gasoline).
HL References 1:			1965, M.1970, M.1971, M1980; S.1958, S.1961, S.1964, FIP1948-309-697,vol3; FIP1956-309-4-697,vol3; Roy-1952;
HL References 2:			
HL References 3:			

NAICS	SIC
322111	271
322112	271
322122	271
323115	281
323116	281
333110	319
333210	319
333299	319
333611	319
336120	319
812921	282
323114	281
323119	281
333130	319
333291	319
336211	319
322121	271
322130	271
323120	282
333120	319
333220	319
335990	319
336510	319
332991	319
333910	319

Æ	Ittawa
11	JUANNA

CITY OF OTTAWA

HLUI ID: __670IQH

Report: Run On: RPTC_OT_DEV0122

29 Nov 2011 at: 09:39:21

AREA (Square Metres): 30368.888

Study Year 1998 **PIN** 040210168

$\mathop{\hbox{\rm Multi-NAIC}}_{\forall}$

Multiple Activities

Company Name

R. L. Crain Ltd.

Crain-Drummond Inc.

Year of Operation

c. 1947-1994



RPTC_OT_DEV0122 Report:

Run On:

29 Nov 2011 at: 09:30:57

Study Year	PIN	Multi-NAIC	Multiple Activities
1998	040210196	Ŷ	, N

Activity ID:	14750	Multiple PINS:	Y
PIN Certainty:	2	Previous Activity ID(s) :	5602
Related PINS:	040210168		
Name: Address: Facility Type: Comments 1: Comments 2:	WESTBORO GARAGE 166 RICHMOND ROAL Motor Vehicle Repair S	D, OTTAWA	
Generator Number Storage Tanks: HL References 1: HL References 2: HL References 3:	r: M.1900, M.1910, M.1920,	M.1930, M.1940, M.1950	

811119	635
811112	635
811121	635

Company Name

Westboro Garage

Year of Operation

c. 1930-1940



29 Nov 2011 at: 09:29:58

Report: Run On:

Study Year	PIN	Multi-NAIC	Multiple Activities
¹⁹⁹⁸	040210198	Y	Y

Activity ID:	10370	Multiple PINS:	Ν	
PIN Certainty:	1	Previous Activity ID	s) :	
Related PINS:	040210198			
Name: Address:	PHOTO FEATU 160 RICHMONI	RES D ROAD, OTTAWA		
Facility Type: Comments 1: Comments 2:	Photographers			
Generator Numb Storage Tanks:	ber:			
HL References 1 HL References 2				
HL References 3	: 2001 Employmen	t Survey		
NAICS	SIC		、	
541920	0			
Company Nan	ne		Year of Operation	
PHOTO FEATURE			c. 2001	



29 Nov 2011 at: 09:29:58

Report: Run On:

Study Year	PIN	Multi-NAIC	Multiple Activities
1998	040210198	Y	Y

Activity ID:	13814	Multiple PINS:	Y
PIN Certainty:	2	Previous Activity ID(s) :	5738
Related PINS:	040210197		
Name: Address:	WESTBORO MONUM 156 RICHMOND ROA	ENT & WIRE WORKS D, OTTAWA	
Facility Type:	Wire and Wire Produc	ts Industries	
Comments 1:	- listed @ 122 in 1930		
Comments 2:	_		
Generator Number			
Storage Tanks:			
HL References 1:	M.1900, M.1910, M.1920	, M.1930, M.1940, M.1950	
HL References 2:			
HL References 3:			

NAICS	SIC
331222	305
334512	305
327420	359
333990	305
332619	305

Company Name

Westboro Monument & Wire Works

Year of Operation

~



CITY OF OTTAWA

HLUI ID: __679EI1

RPTC_OT_DEV0122

Run On: 29 Nov 2011 at: 09:29:58

Report:

AREA (Square Metres): 509.966

Study Year 1998	PI 040	N 0210198	Multi-NAIC Y	Multiple Activities Y
Activity ID:	2464	Multiple PINS:	N	
PIN Certainty:	1	Previous Activity	ID(s): 5081	
Related PINS:	040210198			
Name: Address:		RIAL PHOTO CORPORAT D ROAD, OTTAWA	ION OTTAWA	
Facility Type: Comments 1: Comments 2:	Air Transport Ir	ndustries		
Generator Numb	er:			

Storage Tanks:

HL References 1: SC98

HL References 2:

HL References 3:

NAICS	SIC
481110	451
481215	451
487990	451
621912	451
481214	451
611510	451

Company Name

Canadian Aerial Photo Corporation Ottawa

Year of Operation



Report:

Run On: 29 Nov 2011 at: 09:28:55

Study Year	PIN 040210076	Multi-NAIC	Multiple Activities
2005	040210247	Y	Y

Activity ID:	5173	Multiple PINS:	N	
PIN Certainty:	1	Previous Activity ID(s) :		
Related PINS:	040210247			
Name: Address: Facility Type: Comments 1: Comments 2: Generator Numbe Storage Tanks: HL References 1: HL References 2:	ED BRUNET & ASSOC 145 RICHMOND ROAL Residential Building an	D, OTTAWA		
HL References 3:	2003 PID			
NAICS S 236110 (SIC			
Company Name	9		Year of Operation	

ED BRUNET & ASSOCIATES INC.

c. 2003

MAP Report Ver: 1



29 Nov 2011 at: 09:28:04

Report: Run On:

Study Year	PIN		ulti-NAIC	Multiple Activities
1998	040210076		Y	N
Activity ID:	2480	Multiple PINS:	N	
PIN Certainty:	1	Previous Activity ID(s) :	1914	

Related PINS:	040210247
Name:	CANADIAN BANK NOTE CO LIMITED
Address:	145 RICHMOND ROAD, OTTAWA
Facility Type:	Commercial Printing Industries
Comments 1:	
Comments 2:	
Generator Number:	ON0045200
Storage Tanks:	
HL References 1:	FIP1912,vol2; FIP1922,vol2; FIP1948-310-1541; FIP1956-310-2-1541; M.1900, M.1910, M.1920, M.1930, M.1940, M.1949, M.1950, M.1957, M.1958, M.1960, M.1961, M.1964, M.1970, M.1980; PID1994; SC98
HL References 2:	
HL References 3:	2000 PID
NAICS SI	

NAICS	310
323113	0
323114	281
323115	281
323116	281
323120	282
323114	0
323115	0
323119	281
812921	282

Company Name	Year of Operation
Canadian Bank Note Co. Ltd.	c. 1948-1998
CANADIAN BANK NOTE CO LIMITED	c. 2000
CANADIAN BANK NOTE CO LIMITED	c. 2001
CANADIAN BANK NOTE CO LIMITED	c. 2003
CANADIAN BANK NOTE CO LIMITED	c. 2005

macu 41455 C. UTM 1/18 15 Nº. 3972 SE JOK 502 ONT Elev. 9 RG 02010 The Well Drillers Act KECEIVED Basin Z Department of Mines, Province of (6 GEOLOGICAL BRANCH Water Wel Red OTTAWA NE garlet DEPARTMENT DE MINES ot County or District Acres . . ncluding pump) .. / F. O Pipe and Casing Record **Pumping Test** February 26 Date Developed Capacity Type of screen.... Capacity of pump Depth of pump setting \ldots $\mathcal{A}_{\mathcal{O}}$ $\mathcal{A}_{\mathcal{A}}$ Is well a gravel-wall type?......?to...... Water Record Fresh Depth(s) Kind of No. of Feet Kind (fresh or mineral) Water Horizon(s) Water Water Rises Quality (hard, soft, contains iron, sulphur etc.)... Clear. Appearance (clear, cloudy, coloured) 10 How far is well from possible source of contamination? 25 fact. How far is well from possible source of contamination?... What is source of contamination? Septu terms Enclose a copy of any mineral analysis that has been made of water Well Log Location of Well Drift and Bedrock Record From То In diagram below show distances of well O ft.ft from road and lot line EAST R 50 6 60 50 60 25 llyn B ma Drilling Firm Address Wistber R R H1 John ~\$ mushanes Recorded by . . Date U. 2.8. 1.1.9. Licence Number CS5.88

-	37	_	6.
UTM $ 1 8 z 4 4 1 5 0 E$	ASE 30	د 15 Nº	3973
9 R 5 0 3 7 2 1 10 N		RECEIVED	I X
Elev. $ 9 _{R}$ $ 1 _{R}$ $ 2 _{O}$ The Well	ontario 1 Drillers Act	MAR 23 10/11	
<u>ہ</u> ج		Ontario EOLOGICAL BRANCH	
Lot 32 Water W		DEPARTMENT OF MINES	J
Conductor District Conduction OTTAWA	- Ottowra West	Con. Lot Pt. Lo	t
Country on District // Country on District	land Pr	and due Acres 11	
	cluding pum	np)	
Pipe and Casing Record		Pumping Test	
		y	
Length(s) of cusing(s)	Duration of Test	1 h	
	Pumping Rate J. Drawdown	or golo a have	
Capacity of pump	Static level of comp	pleted well /. O. feet from.	top
Depth of pump setting	Is well a gravel-wa	ll type?	
Wa	ter Record		
Kind (fresh or mineral)	14	Depth(s) to Water Horizon(s)	
Quality (hard, soft, contains iron, sulphur etc.)	.	10 feet pres	L 10"
Appearance (clear, cloudy, coloured) Clean	a sa tas		
For what purpose(s) is the water to be used?		120 pct.	
How far is well from possible source of contamination?			
What is source of contamination? Enclose a copy of any mineral analysis that has been m			
		Location of	Wall
Drift and Bedrock Record	From To	In diagram below show	-
	0 ft	ft. from road and lot line	12/
grad and hard chy	-1 - 9 fe		
	9-704	and geling Park	and the
sondation on a seaf hand rod	70 - 73	at mell in	Ĩ
Shall	73- 120	la 200 million feet to 1	2
		Rod	Ľ.
		- 3	
		-	
Situation: Is well on upland, in valley, or on hillside			
Drilling Firm Mulligen Bro			
Address. We salken ARte (. Recorded by As rden & Mallyns		dress wist- hn #	······
Date		cence Number	
	· •		
		 A state of the state 	4

RECIVED MAY 13 1952 GEOLOGICAL BRANCH DEPARTMENT OF MINES Innes, Province of Ontario
Vell Record
Pumping Test Date
Distance from cylinder or bowls to ground level
ter Record Depth(s) Kind of No. of Feet to Water Water Water Rises
e of water.
From To Location of Well
0 ft. 3.6 ft. 3.6 15.0 dicate north by arrow, 10.0
225 250 225 250 State north by arrow, A State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State S

$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	IS N The Wa I)epartment	illers Act, 1954	15 GROUND WATER E AIJG - 5 19 ONTARIO WAT RESOURCES COMM	BRANCH 58 FER
County or Territorial District	<u>2003 (7</u> 7		ship, Village, Town or in Village, Town or (.Address	City)	
(day)	(month)	(year)			
Pipe and Casing				Pumping Test	
Casing diameter(s)	<u> </u>		Static level Pumping rate Pumping level Duration of test	35 200 6 PH 60 1 F/ 8	<u></u>
Well Log				Water Record	
Overburden and Bedrock Record	From ft. Ø	To ft. Za	Depth (s) at which water (s) found	No. of feet water rises	Kind of water (fresh, salty, or sulphur)
GAEY LIMANS ONE	20	115	- 110-	80	FREST
For what purpose (s) is the water to Solution of the second sec	LEPR illside? GFER SJP	·······	In diagram below	Sation of Well show distances of Indicate north	by arrow. //)
Licence Number I certify that the fo statements of fact an Date July 26.5 mm	regoing re true.		20	Tule eggs	25

/

TWEEDSMUIR AVE

🗑 Onta	ario Ministry of the Environment			he Ontario Water Resources Act WATER WELL RECORD
Print only in spac Mark correct box	es provided. with a checkmark, where applic		1532963	$\begin{array}{c} \text{Municipality} \\ \textbf{USSCR} \\ \textbf{1}_{15} \\ \textbf{1}_{$
County or District	a - Chaleton		rown/Village	Con block tract survey, etc. Lot
		Address	Ottawa .	A Date completed Z1 06 02 month year
1 2		Northing		· · · · · · · · · · · · · · · · · · ·
General colour	LOG (Most common material	OF OVERBURDEN AND BEDR Other materials		ral description Depth - feet To
	Sandagavel			D Y
Sien	linestère	· · · · · · · · · · · · · · · · · · ·		4 51
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31				
41 WATE				I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I <thi< th=""> <thi< th=""> <thi< th=""> <thi< th=""></thi<></thi<></thi<></thi<>
Water found at - feet	Kind of water Inside diam inche	Material thickness s inches	Depth - feet X (Slot I) From To Mater	inches feet ial and type Depth at top of screen 30
15-18	Strive Gas	11 1 € Steel 12 2 Galvanized 3 Concrete 4 Open hole 5 Plaetic	S	41-44 feet
20-23	4 Minerals Salty 6 Gas Fresh 3 Sulphur 24	1 Steel 19 2 Galvanized 19	C 61	PLUGGING & SEALING RECORD Annular space
25-28 1	Salty 6 Gas Fresh 3 Sulphur 29 A Minerals	3 Concrete 4 Open hole 5 Plastic	0 4 From 10-13	at at - feet Material and type (Cement grout, bentonite, etc.)
30-33 1	Safty 6 Gas	²⁵ 1	Lí Cí 26-29	22-25
Pumping test m	Sany 6 Gas	5 Plastic		
⁷¹ 1 2 Pump 2 [Static level W	□ Bailer 13 G Vater level 25 Water levels during	PM 15-16 Hours Mins 1 □ Pumping ★Ω Recovery	_	OCATION OF WELL low distances of well from road and lot line.
19-21 19-21 13 feet	nd of pumping value fores dating		indicate north by an	A A
If flowing give ra	teet 5 feet 5 ate 38-41 Pump intake set at	feet 33 feet 31 feet Water at end of test 42		
Recommended of	1	feet □ Clear XE Cloudy e45 Recommended 46-49 pump rate 1/Z GPM		1.
50-53				i led.
Water sup ² Observation ² Test bole	ply 5 🗌 Abandoned, insufficie		/	200 Radimond Pd.
WATER USE	Test 1 Dewatering			£2:00
Domestic 2 Stock 3 Irrigation	5 Commercial 6 Municipal 7 Public supply	Not use 10 Other	* 47	ち
4 🗌 Industrial		ning		
 Cable tool Rotary (col 	⁵ 💹 Air percussion nventional) ⁶ 🔲 Boring	 ⁹ Driving ¹⁰ Digging ¹¹ Other 		
 ³ Rotary (rev ⁴ Rotary (air 				237915
Name of Well Contra	Lock D. Minch	Well Contractor's Licence No.	Data 58 Contractor Source Date of inspection 58	119 59-62 Date received 9 2002 ⁶³⁻⁶⁶ 80
Address		\sum_{i}	Date of inspection	Inspector
	2 Susper	VIT I	1 2	·
Name of Well-Technic Signature of Technic	shannon thru	Well Technician's Licence No.	Remarks	CSS.ES2



Ministry of the Environment

Well Tag No. for Master Well (Print Well Tag No.) A056104

Cluster Well Information for Cluster Well Construction

Regulation 903 Ontario Water Resources Act

											Page	of
Property Owner's Information											Consent	
First Name Las	t Name			Mailing Addr	ess (Street N	o./Name, F	RR)	Munic	ipality	ATTON 10	Property Owner's Consent to use cluster	
Province Postal Co	DePHICTM ode	<u> E-mai</u>	Address	Mailing Addr DRUSS 100 (ONSTR	UATI	onCle	Telephone	No. (inc. area	OTTAWA	Signature	Date (yyyy/mm/dd)
<u> </u>	663			mese ottaw						02424	Casol Holmas, P.Eng	2007/11/07
Cluster Well Information	-										Consent to release additional information upon request	to the Director
Address of Well Location (Street Number/Name, R	R)	Lot		Concession To	ownship			Count	y/District/Mu	nicipality	Signature of Technician/Contractor	Date (yyyy/mm/dd)
City/Town/Village Prov	1	stal Code			lodel	Unit Mod	le of Oper	ation 🗍 Un	differentiated	Averaged		
OTTAWA On	tario			GARMAN	765	Differ	entiated, s	specify: <u>3</u> A]	
Well # UTM Coordinates on Sketch Zone Easting Northing	Full Depth of Hole (metres)	Hole Diameter (cm)	Method of Construction		Casing Length (metres)	Screen Inte From	erval (metres) To	Sealant Used	Static Water Level (metres)	Abandonment Sealant Used	Comments	Date of Completion (yyyy/mm/dd)
BH2 18T 441487516 217448	5.2	20.0	BORIN	6 PLASTIC	0-2.2	2.2	5.2	BENTONIT	^e 4.0			
34 5 181 441171125101217151716	5.0	20,0	n	13	0-2.0	2.0	5.0	/)	4.2			
346 18744221135027874	7 5.1	20.0	h	и	0-2.1	2.1	5.1	4	4.1			
3H10 18T442457257028000	5.2	20,0	Ej	4	0-2.2	2.2	5.2	4	4.3			
H 4 187441 56 95 012741914	2 3.1	20.0	11	- li	0-17	到.7	3.1	11	A-			
Well Contractor and Well Technician In	formation										Date 1st Well in Cluster Constructed Date Last We	I in Cluster Constructed
Business Name of Well Contractor		+		s (Street Number/Na	• •		Municipa			Province	(yyyy/mm/dd) 2007/10/12 (yyyy/mm/dd)	2007/10/10
1 ST CONSULTINE Postal Code Business Telephone	No (inc. area	6	65 HE	EWITSON S.	T Innes E mall A		THUN	WER BA	7	ONTANIO	Ministry Use Only	
P7B5V580762	232	929	68	tor's Licence No. Busi 3 8 ian's Licence No. Date	dstai	0410-C	10A				Date Revolve2 (2.2007//dd) Date Inspe-	sted (yyyy/mm/dd)
Name of Well Technician (First Name, Last Name)			Well Technici	ian's Licence No. Date 4 4	Submitted (y)	yyy/min/dd)	Signature	of Technician	2		Audit No. 00100 Remarks	
(<u>ALAN</u> FINKE 1991 (11/2006)			23		Ост 2	00-7		C	- Second		C UULUU MOD	240

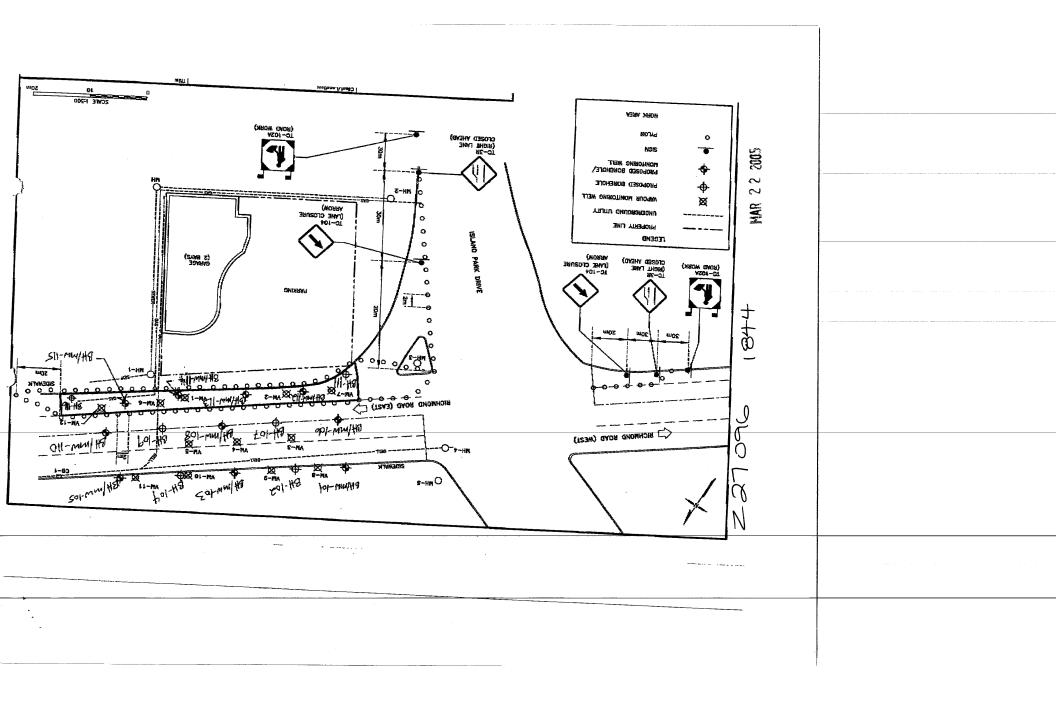
Ministry's Copy

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P	Ontario	Ministry of the Environment	Well Tag No. for M			561()4	Cluste	ster Well Record for r Well Construction 903 Ontario Water Resources, Act
Master	Nell Owner's and	Land Owner's Info			<u> </u>				of
First Nam	e	Last	Name				T		
Cry A	of Ottawa Idress (Street Numbe	Pr/Name RR)		s & See	unces	Prov	inao	Desire Code	(Tabada and Maria
100 (CONSTRUCTION	and Cresent	OTTA			Piov	0N	Postal Code	Telephone No. (inc. area code)
		on of the Master We	Il in the Cluster			I			10811910002401
	of Well Location (Stre ミームイエムCHI	et Number/Name, RR) EO PLAN	Town	nship				Lot	Concession
	istrict/Municipality		City/1	Town/Villag	e			 F	Province Postal Code
UTM Coor		·		OTT					Ontario
		ing Northing 2331/502		nit Make בתו גרא	Model 76	<	Mode of C	Operation:	Indifferentiated Averaged
		k Materials (see inst				<u>.</u>	Sinerei	Hole D	
General Colour	Most Common Material	Other Materials	General	Depth	(Metres)	101 - CANADA	n (Metres)		Diameter
	•	Materials	Description	From	То	From	То		(Centimetres)
GRY	ASPHALT	· · · · · · · · · · · · · · · · · · ·		0	0.2	0	5.3	20.0	
GRY	CONCLETE			0.2	0.5	1			
Ber	SAND	GLAVEL COBBU	5	0.5	3.1				
Ge-1	LIMESTONE	5		3.8	53				
								107-10-1	
			h			Public	and an	Water dustrial 🕅 N	ot used Other, specify
		0	2			Dome		ommercial 🗍 D	ewatering
	- ()	V - V	·			Imigat			onitoning ooling & Air Conditioning
	1 / Bt	1						Method of C	onstruction
						Cable	Tool y (Conventior	Air Percunal)	
						🗌 Rotar	y (Reverse)	Jetting	Other, specify
<u></u>						Rotar	y (Air)	Driving	
			······	_		Test H		Status o	
							cement Well		ed, Insufficient Supply ed, Poor Water Quality
1	The trace	· · ·	- 18				tering Well	Other, sp	
								ction) 🗌 Abandon	ed, other, specify
						No Ca Open Hol		reen Used	Static Water Level Test
		Construction De	ails				Yes 🗌 N		Metres
Inside Dia (Centime		Material fibreglass, concrete, ga	alvanized) Wall Thickness	Depth (/	<i>Metres)</i> To	Galva	nized 🗍 S	teel Fibregla	
3.2	.	IL RIS		0	2.3		iameter (Cei		pt No.
	- 1 ZAST		1				3.6		.010
·		SCRU	EN 0.2	2.3	5.3	Water fo	und at Depti	Water Deta	second and second s
				·		13.5	•		Salty Sulphur Minerals
	-						und at Depti	1	
Depth Set a		Space/Abandonmen	CANADA STREET, STRE				Metres	(Salty Sulphur Minerals
From	То	Type of Sealant U (Material and Type		Volume (Cubic N			•		Salty Sulphur Minerals
0.2	1.8 BENT	TONITE HOL	EPLU6	NIA	, ľ	Disinfecte	d 🗌 Yes [No If no, provide	reason: Date Master Well Completed
					·				(yyyy/mm/dd), 2007/10/15
						Cluster	Information	(Please also fill	out the additional Cluster Well
						Information	tion for Well	Construction fo	r each parcel of land and cluster.) Please indicate Number of Cluster Well
						TOTAL ME	iis in oldater		nformation Log Sheets Submitted
						Total We	lls on this Pr	operty	į
								Location of M	/ell Ciuster
							Map must be	provided as an a	attachment no larger than legal size
								are not allowed. irm detailed map i	is provided as per Section 11.1 (3)
						Consent	to release a	dditional inform	ation concerning the cluster to
						the Direc	tor upon rec	quest an/Contractor	Date (yyyy/mm/dd)
		actor and Well Tech	nician Information						
	ame of Well Contracto	or	Well Conti	ractor's Licer	ice No.	Master W Signature	ell Owner's	/Land Owner's c	onsent to use Cluster Form
LJ > T Iusiness Ac	dress (Street No./Na	The fumber RR)	Municipality	83	18	Jungiture	I Ha	Puro PE	Date (yyyy/mm/dd) Ma 2007/11/07
605	HEWITSO	5-5-5-	THUNDE	er B	47	<u>uu</u> u	<u>~~~/ 16/ (</u>	Ministry U	se Only
'rovince	Postal Cod	e Business E-mai	I Address			Audit No.	A 0.0	We	all Contractor No.
UNTA/	ne No, (inc. area codel	Name of Well Technicia	040 . Com	amel		Date Poor	UU .	nho 🤝 🐭	to of Insecolary (Automation
1076	232929	FINKE C	. ALAN			ŇÔŶ	2 2 2007	nauj Da	te of Inspection (yyyy/mm/dd)
Vell Technici	an's Licence No. Signa	three of Technician		mitted (yyyy		Remarks	A 1 - ^	1	
992 (11/2006		C-2	Oc			<u></u> C	00100		@ Queen's Printer for Ontario, 2006
				33 (8 2)	es 3 m tonne e 7 m	No and the			Onano, 2000

8	Ontario	Ministry of the Environment	Well Tag No. for Ma	aster Wel		licker and/o	r Print Below	Cluste	ster Well Record for Well Construction
Master V	Vell Owner's and	Land Owner's Infor		-					Page of
First Name Mailing Ad	dress (Street Number	r/Name, RR)	Name Stak Lt Municipality	2	ł	Provir	tano	Postal Code	Telephone No. (inc. area code)
Address of		on of the Master We et Number/Name, RR)	Il in the Cluster Towns		ttan		40410	Lot	Concession
County/Dis UTM Coord	strict/Municipality ausa Oarl dinates Zone East	ing Northing	-	own/Villag	Model	м	Mode of C	peration:	Province Postal Code Ontario Undifferentiated Averaged
	8 3 18 4 4 1	k Materials (see inst	LLSS ructions on the back	of this fo	vrm)		Differen	tiated, specify Hole	Details
General Colour	Most Common Material	Other Materials	General Description		(Metres) To	Depth From	(Metres) To		Diameter (Centimetres)
black	Asphalt		pavement	0	0.15	0	4.0	20	0.3
qray	Sandy grav	el, occ. cobbl							
	typic	Mw II of all	2. Doreholes			Public Domes Livesto Irrigati	stic C DCk D	dustrial ommercial funicipal	ar Use Other, specify Dewatering Monitoring Cooling & Air Conditioning
	aps r	eadings for	each well o	re				· · · · · · · · · · · · · · · · · · ·	Construction
	shown	on a separ	nte sheet				(Convention (Reverse)	Jetting	
						-		Status	of Well
						Dewat	cement Well ering Well	Abando	
									oned, other, specify
						Open Hole		creen Used	Static Water Level Test
Inside Dia (Centime	tres) (steel, plastic	Construction De Material , fibreglass, concrete, g	alvanized) Wall Thickness		Metres) To	Galvar		Steel Fibre	reen
5.7		stic riser	0.4	23	2.3			Water De	talle
	c pla				-1.0		und at Dep Metres	th Kind of Gas Fres	Water sh Salty Sulphur Minerals
Depth Set From	Annula at (<i>Metres</i>) To	r Space/Abandonmer Type of Sealant ((Material and Typ	Jsed		e Used Metres)	Water for	Metres und at Dep Metres	th Kind of	sh Salty Sulphur Minerals Water sh Salty Sulphur Minerals
0.3	20	Concrate hole plug		24	baro	Disinfecte	d []Yes []No If no, provi	de reason: Date Master Well Completed (yyyy/mm/dd) Z-008 /04 (17
2.0	4.0 F	hole plug		24	bago	Informa	tion for We	Il Construction	Il out the additional Cluster Well for each parcel of land and cluster.)
							ells in Cluste 2 ells on this F	Property	Please indicate Number of Cluster Well Information Log Sheets Submitted
						Detailed	Nap must b	Location of	Well Cluster
						(8.5" x 14	t"). Sketche k box to con	s are not allowe firm detailed ma	d. ap is provided as per Section 11.1 (3)
						the Direc	tor upon re		Date (yyyy/mm/dd)
	lame of Well Contrac		Well Con	tractor's Lice		Master W Signature		s/Land Owner's	s consent to use Cluster Form Date (yyy/mm/dd)
Business A	ddress (Street No./N	ame, number, RR)	Municipality	96	4	Cignature			(J)JJIIIIIBUU
Province	Appleton Postal Co	de Business E-m				Audit No.	M 0	Ministry	Use Only Well Contractor No.
	one No. (inc. area code 256-066 cian's Licence No. Sig	Name of Well-Technic	in wilf	iame)	w/mm/dd)		eived (yyyy/n N 1 2 201		Date of Inspection (yyyy/mm/dd)
1992 (11/200	94	Did Join	\	8 (04)		(A)	Maj	25	© Queen's Printer for Ontario, 2006

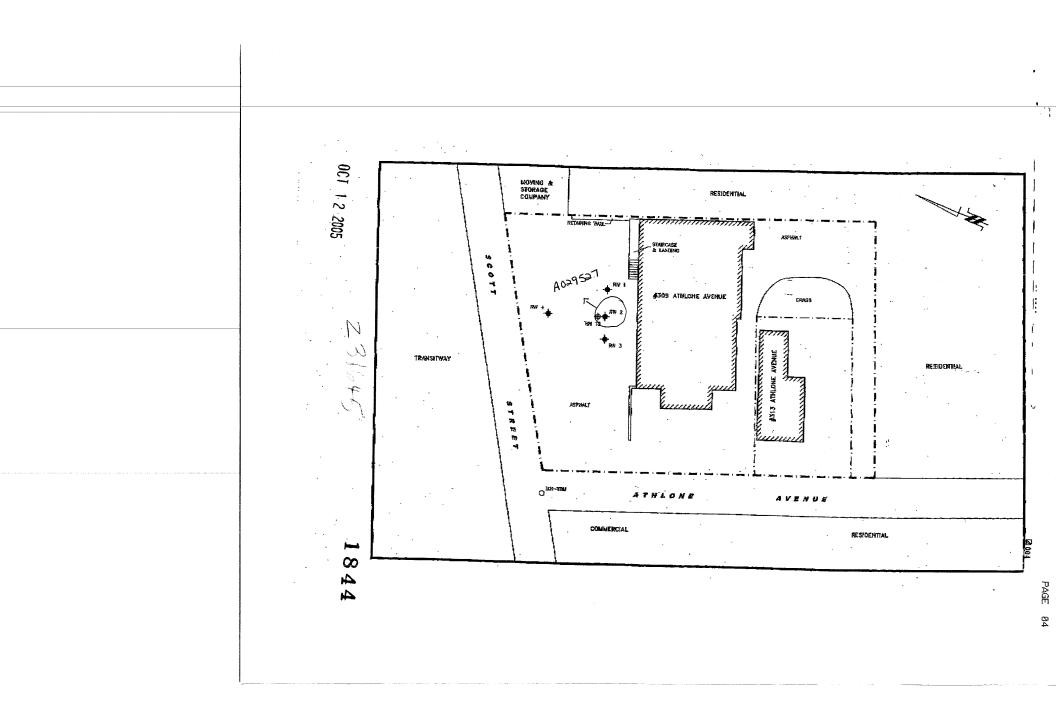
		17 	Min	istry of	. F	Well Tag	Number (F	a ^p ia d ^{an} ia a nd ia at	* ####################################	1	'n	Wol		ecord
A) C	Intal	rio		Enviror				A 02(Regulation 903	Ontai	rio Water	Resou	irces Act
nstructio	ons for C	omple	eting f	Form			1-02]		•	age	L of 2
 All One 	data man	امطنهمه	aamala	stad in f	full to avoid	avelab b	in processir	a Further in	structions and	ease retain for future l explanations are ava	liable	on the bar	ck of t	his form.
 Questi 	ibns rega	irdina d	omple	tina this	s applicatio	on can b	e directed to	the Water V	Vell Managen	nent Coordinator at 4	16-2	35-6203.		
 All me Please 	e tre mea : e print cle	surem arly in	ents s blue o	r black	ink only.	το 1/10"	of a metre.			Ministry Use	Only			
	er's Info	ormati	on an	d Loca	tion of W	/ell Info	rmation		(Street Number	or/Name, RR,Lot,Conce	ession		OT	
First Name	crin	L	Dif	ast Mam	mida		9	O Wynto	and Drive	2. Att Herre	BI	Louin		
County/Distr		pality			Township	City/Toy				CODE Telep		Number (i 44/	- 18	
Address of V			unty/Dis	strict/Mu			To	wnship Unun - 1	1	Lot		Conce	ssion	
RR#/Street	Number/N	lame 🖌	D	7 8	•	-01	A .	City/Town///ill	age	Site/Compa	rtmen	t/Block/Tra	act etc	
369 GPS Readir		And	Zone	Eastin	ıg	North	rnard Rd	Unit Make/Mc	del Mode		fferentia		Avera	ged
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							Amustian Das			Tae	t of W	Vell Yield		
Depth	Metres	Diame	ter	Inside		Cons	truction Rec Wall	Depth	Metres	Pumping test method	Dra	aw Down	<u> </u>	ecovery
From	То	Centime		diam	Mate	rial	thickness	From	То		Time min	Water Level Metres	Time min	Water Leve Metres
0	4 M	20		mumeues		•	Casing	<u> </u>		Pump intake set at - (metres)	Static Level	4. T		
· · · · · · · · · · · · · · · · · · ·		1.		e un		Fibreglass			#4	Pumping rate - (litres/min)	1		1	
w	ater Reco	rd		5	Galvanize		# 40	0	2.5 4	Duration of pumping	2		2	
Water found at Metre		t of Wat	er .			Fibreglass	1,00	Typie	wh	Final water level end	3		-	5
m Gas	Fresh	Sulp			Plastic Galvanize			01		of pumpingmetres	Ľ	\sim		Ś
Other: _			<u>.</u>		Steel					Recommended pump type.	4		4	
	Fresh Salty	Sulp			Plastic Galvanize				*	Recommended pump depth. metres	5		5	P
mm	Fresh	Sulp	hur		Galvariize		Screen	L		Recommended pump	10	2	10	
Gas Other:	Salty	🗌 Mine		Outside diam	····· -	Fibreglass	Slot No.	25	diesh	If flowing give rate -	15 20		15	
After test of			as	65	Plastic Galvanize	Concrete	1/210	2.5	ya	(litres/min)	25		25	
Other, s	nd sediment	Tree	-	ein		No	Casing or Sci	reen		If pumping discontin- ued, give reason	30 40		30 40	
Chlorinated	Tres	410			Open hol						50		-50 60	
	-			ing Rec	ord	Annul	ar space	bandonment		Location	1.00	1	00	1
Depth set at From					slurry, neat ce		U oto Volu	me Placed ic metres)	In diagram belo Indicate north b	w show distances of well fi			and bu	ilding.
0	Îm	Ba	rto	net			20	ALS	indicate north b	Sce Attrched Scto	~			
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			_		Construct									. '
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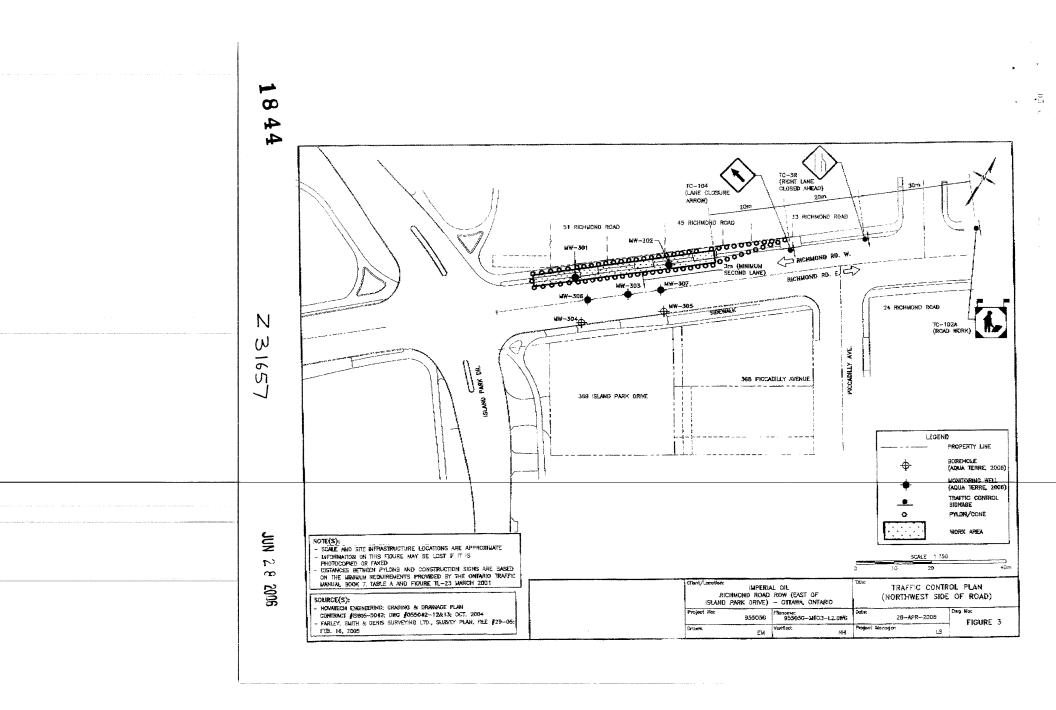


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tructions for Completing Fe	nd eo oliebed la <mark>electrica de la casa de la cense de cense de la cense de la cens cense de la cense de Cense de la cense d</mark>	no device non-set in a subscription where the set of th
For use in the Province of O	ntario only. This document is a permanent let	gal document. Please retain for future reference. er instructions and explanations are available on the back of this form er Well Management Coordinator at 416-235-6203.
All metre measurements sh	all be reported to 1/10 th of a metre.	Ministry Use Only
Please print clearly in blue or	black ink only.	LOT
Name D Las	Name / Mailing Addr	ess (Street Number/Name, RR,Lot,Concession)
intv/District/Municipality	I ownship/www.lown/village	Province Postal Code Telephone Number (include area cod
Iress of Well Logation (County/Dist		Lot Concession
145 DICHMOND	KOAP City/Jown	/Village Site/Compartment/Block/Tract etc.
#/Street Number/Name	$1 e^{-C}$	
S Reading NAD Zone	941527 5027132 171	Coll Differentiated, specify
g of Overburden and Bedro neral Colour Most common mate	rial Other Materials	General Description Depth Metres
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		 Alternative and products of an end of the end of the
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	(1) Support States (10.13) (States (10.13))	Test of Well Yield
Hole Diameter	Construction Record Iside Wall Depth	Metres Pumping test method Draw Down Recovery
rom To Centimetres	tiam Material thickriess From	Time Water Level Time W
	Casing	Pump intake set at - Static (metres) Level
	Steel Fibreglass	(litres/min)
Water Record	Plastic Concrete	Duration of pumping 2 2
ter found Metres Kind of Water	Steel Fibreglass	Final water level end 3 3
Gas Salty Minerals	Plastic Concrete	of pumping metres
Other: m Fresh Sulphur	Steel Fibreglass	type. Shallow Deep
Gas Salty Minerals	Plastic Concrete Galvanized	Recommended pump 5 5 6 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6
m Fresh Sulphur	Screen	Recommended pump 10 10
Gas Salty Minerals C	utside Steel Fibreglass Slot No.	rate. (<u>litres/min</u>) 15 15 If flowing give rate - 20 20
er test of well yield, water was. Clear and sediment free	Plastic Concrete Galvanized	(lttres/min) 25 25 If pumping discontin- 30 30
Other, specify	No Casing or Screen	ued, give reason. 40 40
lorinated Yes No	Open hole state the second	50 50 60 60
Plugging and Sealin	g Record Annular space Abandonme	
	entonite slurry, neat cement slurry) etc. Volume Placed (cubic metres)	In diagram below show distances of well from road,- lot line, and building. Indicate north by arrow.
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15 25 Grant	PH Off 3 bogs	
O To Cionez	and mp-	n <mark>bergen bergen en generalen bergen berg Bergen bergen b</mark>
	and Sections of the section of the section of the	<mark>त्रम् १</mark> विशेष प्रतिस्थ व्यवस्य स्थल कृति स्वयत् । स्थलान् वृद्धाः त्राप्त त्रिप्तुः त्राप्तः तः ११ स्थलन् । १९ स्थ स्थलेक राज्यतात्रात्त्वे कृत्वतात्र स्थल्य व्यक्ति स्थल स्थलन्त्राः स्थलन्त्रः । स्थलन्त्रः त्राप्त्राः स्थलन्त
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Rotary (reverse) Boring		
Doméstic Industrial Stock Commercial	Public Supply Dot used	(i) Second Se
Irrigation Municipal	Cooling & air conditioning	Audit No. Z 28743 Date Well Completed
Water Supply Recharge well	Unfinitshed Abandoned, (Oth	
Observation well Abandoned, insu Test Hole Abandoned, poo	r quality 🔄 🔲 Replacement well	
	tor/Technician Information Well Contractor's Licence No	Ministry Use Only Data Source Contractor
Blunding Vil	lege 6574	Date Received YYYY DD Date of inspection YYYY MM
	RP CLAST FIDEXILL	NOV 2 4 2005
me of Well Technician (last name, first	310	
nature of Technician/Contract	Date Submitted	12005/11/15
Signature of Technician/Contracting	Date Submitted	DWC VIA PHONE 2005/11/15 Owner's Copy Owner's Copy Cette formule est disponible en frances

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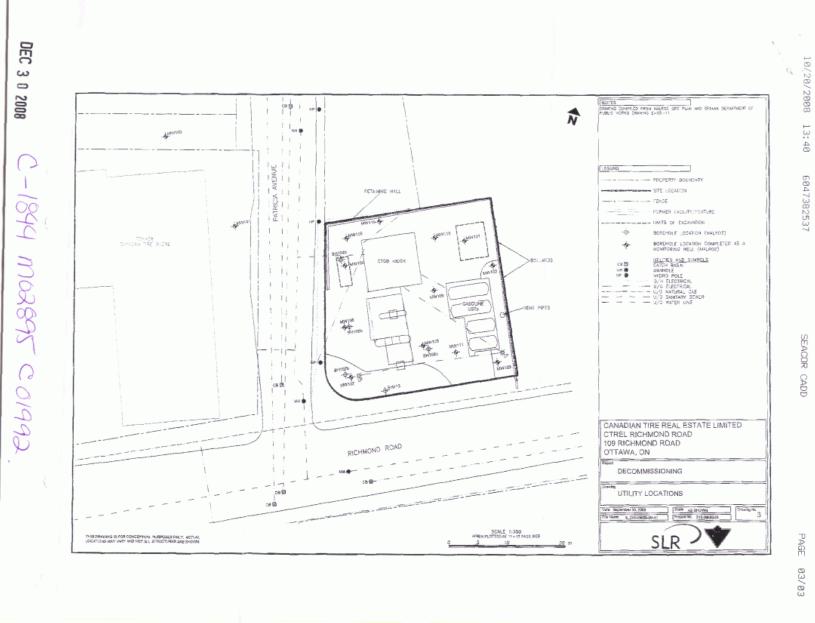
	linistry of he Environment	Well Ta	A 02		iber below)	Regulation 90			
Instructions for Completin	a Form		A D2	1950	27			page]	
 For use in the Province of All Sections must be com 	of Ontario only.	This docume	ent is a perma	anent legal	document. Pl	lease retain for future texplanations are available.	re reference.	back of t	this fo
 Questions regarding com All metre measurements 	pleting this appli	cation can b	e directed to	the Water	Well Manager	nent Coordinator al	416-235-620	03.	
 Please print clearly in blue 	e or black ink on	ly.		MUN	C	Ministry Us	se Only	LOT	
Well Owner's Information	Last Name		Mai	lina Address	(Street Numbe	er/Name, RR.Lot.Con	cession)		
County/District/Municipality	Nents LNC	ship/City/Towi	n/Village	Pro	ovince Posta	I Code Tel	ephone Numbe	er (include	area
Address of Well Location (County/	District/Municipali	ty)		/nship	ntario KQ	Lot	013 - 721 5 57 Ger	ession (
RR#/Street Number/Name	Λ.		C	City/Town/Vil	lage		8 † 59 artment/Block/		26
GPS Reading NAD Zong	EAVENUL	North	ing U	Offau Jnit Make/M	odel Mode		differentiated	Avera	ged
8 3 Log of Overburden and Be	drock Materia			Garminb	PS map 76	Dif	ferentiated, specif		
General Colour Most common		Other Mat	terials	_		I Description		Pepth From	Me
2K Brown Silly San		00.101		Typ		itering Well		D 0,10	.1
Brown Sandy		ravel		(5		as a clus		27	1.5
Grey Limestone		rale lay	ens					52	4.'
·		1.16/1011							
Hole Diameter		Cons	truction Reco	rd			st of Well Yie		
Depth Metres Diameter From To Centimetres	Inside diam	Material	Wall thickness	Depth	Metres	Pumping test method	Time Water Le	vel Time	
0 4.70 20	centimetres		centimetres	From	То	Pump intake set at -	min Metres Static	s min	Me
	Stee	I Fibreglass	Casing Schedull			(metres) Pumping rate -	Level 1	1	
Water Record		tic 🗌 Concrete	40	0.9	1.25	(litres/min) Duration of pumping	2	2	
Water found Kind of Water	111/1	I Fibreglass				hrs +mi		3_	
Gas Salty Minerals	Plast Galv	tic Concrete anized				of pumpingmetre	s	4	,
m Fresh Supphur		Fibreglass				type. Shallow Dee Recommended pump			
Gas Salty Minerals		tic Concrete anized			-	depthmetre	s	5	
m Fresh Sulphur Gas Salty Minerals	Outside Stoo	Fibreglass	Screen			Recommended pump rate. (litres/min)	2 10 15	10-15	
Other: After test of well yield, water was	diam 50	tic Concrete	Slot No.	1.25	4.70	If flowing give rate - (litres/min)	20	20 25	
Clear and sediment free Other, specify		anized	asing or Scre			If pumping discontin- ued, give reason.	30 40	30 40	
Chlorinated Yes	Ope		asing of ocre				50	50	
Plugging and Se	aling Record	Annula	r space 🗌 Ab	andonment		Location	of Well	60	
Depth set at - Metres From To		eat cement slurry) etc. Volum (cubic	e Placed metres)	In diagram below Indicate north by	w show distances of well y arrow.	from road, lot lin	ie, and bui	ilding.
0.9 1.25 Bentor	ute. 20	416	20	H.C.	Diedo	0 500 site	eplan		
						e see site Hached)	•		
		······				mained)			
	lethod of Const								
Cable Tool Rotary (Rotary (conventional)		Diamond		Digging Other					
Rotary (reverse) Boring	Water Use	Driving							
Domestic Industria	ercial	Public Supp		Other NOLL			late Micli C	tod	
Irrigation Municip	Final Status of	Well	ir conditioning		Audit No. Z	31645	ate Well Comple	005	ČS
	insufficient supply	Unfinished		ned, (Other)	Was the well or package deliver		ate Delivered	YYYY 	ММ
	poor quality tractor/Technicia	Replacement	on		Data Source	Ministry U	se Only Contractor	~	
Name of Well Contractor. George Diwing Est		ng Ud "	ell Contractor's L	icence No.	Data Source			84	44
Business Address (street name, numb 410 Main St. Grenvi	er, city etc.)		De Jovin		Date Received	1 2 2005	ate of Inspection		MM
Name of Well. Technician (last name, t	first name)	v jw	ell Technician's L		Remarks	v	Vell Record Num	ber	
Signature of echnidian/Contractor	<u> </u>		te Submitted	3					





	Ainistry of Well	Jell aban	cker and print number below)	Regulation 903 Onta	Well Record
Instructions for Completin	g Form	Ay to AI	029550	and the first state	page of
 For use in the Province of All Sections must be compared by the section of the sect	of Ontario only. This doc npleted in full to avoid de pleting this application ca s shall be reported to 1	lays in processing. an be directed to th	Further instructions a	Please retain for future refe ad explanations are available ement Coordinator at 416-2 Ministry Use Only	on the back of this form. 235-6203.
Well Owner's Information		Mailin	g Address (Street Nymi	CON Der/Name, RR,Lot,Concessio	n)
County/District/Municipality			Province Pos Ontario		Number (include area code
Offana RR#/Street Number/Name TSIGNA Hark at GPS Reading NAD 200	Richmond Roa	Northing Uni	/Town/Village OHawa Make/Model Mod	Site/Compartmer	
GPS Reading NAD Zop 8 3 Log of Overburden and Be			Vayellan	Differentiate	ed, specify
General Colour Most common		r Materials	Gene	ral Description	Depth Metres From To
			5 Boreholes	decomission	ied.
4				-pirel.	
			bentonite,	s, Marting to D	nd backfill
	<u>Pin</u>	Ministry	<u>Reg 903. 0</u>	sphalt on top	
Hole Diameter Depth Metres Diameter		onstruction Record Wall	Depth Metres		Vell Yield aw Down Recovery
From To Centimetres	diam Material	thickness centimetres	From To	Time	Water Level Time Water Level Metres min Metres
0 4.21 20		Casing		Pump intake set at - Static (metres) Level	
	Steel Fibreg			Pumping rate - 1 (litres/min)	1
Water Record	Plastic Concr	ete		Duration of pumping 2	2
Water found atMetres / Kind of Water m FreshSulphur				Final water level end 3	3
m Fresh Sulphur Gas Salty Minerals	Plastic Concr	ete		of pumping metres	4
fn Fresh Sulphur	Plastic Concr			type.	
Gas Salty Minerals	Galvanized			depthmetres	5
m Fresh Sulphur Gas Salty Minerals	Outside Stool Eibror	Screen		Recommended pump 0 rate. (litres/min) 15	10
Other:	diam Steel Fibre			1f flowing give rate 20 (litres/min) 25	20
Clear and sediment free	Galvanized			if pumping discontin- 30	30
Other, specify	· · · · · · · · · · · · · · · ·	No Casing or Screen	l	40	40 50
Chlorinated Yes	Open hole		·	60	60
Plugging and Se Depth set at - Metres From To Material and typ		nular space Aban	laced In diagram bel	Location of We ow show distances of well from ro	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.
From To Matching of the Prom		(cubic me		i sa kata sa sa sa	n de la companya de la
	Tupical.		Tha	se see attach	ed site plan
	<u> </u>	ternet sold and	and the second s	n an seach a' Chairte an Stair Bhailte. Stéide an Stairte an Stàitean Stàite	na senara en el composición de la compo En el composición de la composición de l
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	lethod of Construction			an an an an an an an an Araba an Araba. An an an an an an an an Araba an Araba	an tha an
Cable Tool Cable Tool Rotary (conventional) Air perc Rotary (reverse) Boring	cussion Jetting	i ot		and a state of the	
Domestic Industri	al Public	SupplyOt	hein	an a	
Stock Comme	al 🗌 Cooling	ed g & air conditioning	Audit No. 7	31657	
	insufficient supply	ering	d, (Other) Was the well package delive	owner's information Date Deliv	
Test Hole Abandoned, Well Con	poor quality Replac		Mar 1	Ministry Use On	
Name of Well Contractor	Estate Duling L	Well Contractor's Lice	nce No. Data Source	Contract	844
Business Address (street name, number HD Main S. (Transk		e. Qc Jov 11	30 Data Baceivad	8 Y2000 MM DD Date of In	Ispection YYYY MM DD
Name of Well Technician (last name, t		Well Technician's Lice		Well Rec	ord Number
Signature of Technician/Contractor	Jaran in	Data Submitted	MM DD		
X / druce	Contractor's Copy	Ministry's Copy 🔀	Well Owner's Copy	Cette formul	le est disponible en frança

\$P	Minist	ry of vironment		Well Tag	No. (Place Sticker a	nd/or Print Below)		Well Record
Measurem	nents recorded in:			A 09	32413	A092413 Regulatio	111	Water Resources Act Page 3 of 3
	mer's Information						131-	
First Name	ty of O.	ast,Name / (and	Holmes	E-mail Address		Well Constructed by Well Owner
	dress (Street Number/Nar			N/	lunicipality	Province Postal Code		one No. (inc. area code) 35802424
Vell Loc	ation					10.000		
	Well Location (Street Nu		* nich		Rd Otta	Lot	Conce	ession
	strict/Municipality	rortho	P.	C	ity/Town/Village		Province Ontario	Postal Code
ITM Coord	finates Zone Easting		orthing	N	2 Iunicipal Plan and Suble	ot Number	Other	
	8 3 1 8 4 4 1 .	and the second division of the second divisio	the second se	the second se	rd (see instructions on the	back of this form)		
General C		non Material			er Materials	General Description	1	Depth (<i>m/ft</i>) From To
					1			
-								
9					1.12			
S								
								1
	et at (<i>m/ft</i>)	Annular Type of Sea	lant Used	<u>Hommu</u>	Volume Placed	Results of W After test of well yield, water was:	Draw Do	wn Recovery
From	To ASI COMO	(Material an	d Type)		(m³/ft³)	Clear and sand free Other, specify		The Water Level (min) (m/ft)
~ '	0.5' Cemi 11' Bent	-J-				If pumping discontinued, give reason:	Static Level	
5	22' Sanc	1					1	1
	co suno	(Pump intake set at (m/ft)	2	2
Met	hod of Construction		010	Well Us	e	Pumping rate (Vmin / GPM)	3	3
] Cable T	ool Diamond		blic mestic	Commer	cial 🗌 Not used	Duration of pumping	4	4
Rotary (Liv	estock	Test Hol	e 🕅 Monitoring	hrs +min	5	5
Boring			ustrial		& Air Conditioning	Final water level end of pumping (m/ft,	10	10
] Other, s	Construction R		iner, specify		Status of Well	If flowing give rate (I/min / GPM)	15	15
Inside Diameter	Open Hole OR Material (Galvanized, Fibreglass,	Wall Thickness	the second s	h (<i>m/ft</i>)	Water Supply	Recommended pump depth (m/ft)	20	20
(cm/in)	Concrete, Plastic, Steel)	(cm/in)	From	То	Replacement Well Test Hole	Recommended pump rate	30	30
.25"	Plastic	400-75	"0"	712'	Recharge Well Dewatering Well	(Vmin / GPM)	40	40
					Observation and/or Monitoring Hole	Well production (Vmin / GPM)	50	50
		<u> </u>			Construction	Disinfected?	60	60
	Construction R	ecord - Scre	en	0031222200	Abandoned, Insufficient Supply		ell Location	
Outside Diameter	Material (Plastic, Galvanized, Steel)	Slot No.	Dept	h (<i>m/ft</i>)	Water Quality	Please provide a map below following	1	n the back.
(cm/in)	Plastic	10	From	To 22(specify		2	
•>	Plastic	10	12	60	Other, specify	A	Iai	
1910	Water De	tails	11111	н	ole Diameter		Sh	1 Mac's
	nd at Depth Kind of Wate	r: Fresh	Untested	the second se	h (m/it) Diameter To (cm/in)		2	Mac's Milk
	n/ft) Gas Other, spe nd at Depth Kind of Wate		Untested	0'	22' 3.25"	oncorb	3	1 and 1
	n/ft) Gas Other, spe		Untested			carb T	7	
	nd at Depth Kind of Wate n/ft) Gas Other, spe		Jontested					
usiness N	Well Contractor	or and Well	Technicia		ion Il Contractor's Licence No.		-	12
stra	ta soil san	nplin	9	7	241	20r	r k	lichmond R
usiness A	Address (Street Number/Na 7 west Bec	ime)	J,	A	nicipality	Comments:		
rovince	Postal Code	Business	E-mail Add	dress		Mall months in the second		
	one No. (inc. area code) Na	ame of Well 1	echnician (Last Name, I	Arach Soil-ccu First Name)	Well owner's Date Package Deliver	Audit	Ministry Use Only
05	7449304	Mair	ni	the		delivered VYYMM Ves Date Work Completed		z106623
3 Z	cian's Licence No. Signature	Le chinice		-	9091115		ast DE	C 2 1 2009
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PAGE 03/03

🗑 Ontario	Ministry of the Environment		W.	ell Tag No. for	Cebande	onnee	g No.)		Clu	ster Well Info	rmation for Cl Regulation 90		Construction or Resources Act
				Tag A	03217	7						Page	of
Property Owner's Informati	on		NY GUL								Consent		
First Name Canadian Tire Real (Province	Brate A. Postal Code M 4 P 2	2180 Jo IV 18 E-mai	nge J Address	Mailing A	ddress (Street N OF P. O. Bo	0./Name, R	R) 0 541	Telephone	ipality Mo. (inc. area 54	a code) 4 6433	Property Owner's Co	onsent to use cluste	r form Date (yyyy/mm/dd) 2008/11/35
Cluster Well Information								Sector 1			Consent to release a upon request	dditional informatio	on to the Director
Address of Well Location (Street Nur 109 Richmond R	cation (Street Number/Name, RR) Lot Concession Township County/District/Municipality				nicipality	Signature of Technicia	n/Contractor	Date (yyyy/mm/dd)					
City/Town/Village	Province Ontario	Postal Code		GPS Unit Make	Model		e of Opera entiated, sp		differentiated	Averaged	B A	lan	7/2008/10/21
Well# UTM Coordinates on Sketch Zone Easting North			Method of Constructio		ial Casing Length (metres)			Annular Space Sealant Used	Static Water Level (metres)	Abandonment Sealant Used	Comme	ents	Date of Completion (yyyy/mm/dd)
MW 1844174350		8				TIOM	10			Bentonite			2008/02/01
103 18441715550		8											
104 18441730 50	27272 5.	2									le N		
	27265 5.	8											
NW 1844172850	27272 4,1	1											
	27 259 3.5	8 '											
	27267 3.8	\$											
109 1844174550	27279 5.2	2											
MW 1844173950	27285. 4.(0											
1844174950	27270 3.8	8									0	bandonnel	Sprenclonne
Well Contractor and Well Te Business Name of Well Contractor	chnician Informat										Date 1st Well in Cluster C (yyy/mm/de)	enstructed Date Last V ())qov/mg/dd/	/ID/01
Ceorge Downing a Postal Code	Estate Drill:			s (Street Number/ e Princ tor's Licence No. E			Municipali		Rouge	Province CD C	Ministry Use Onl	у	
Postal Code Bueine J J V I B 0 8 Name of Well Technician (First Name	ess Telephone No. (<i>inc. a</i> 1920 - 1920 - 1920 - 1920 9. Last Name)	6469	Well Contrac	tor's Licence No. E 444 ian's Licence No. D	ate Submitted (v			ornet	con	<u> </u>	DEC 3 0 2008	Pomorko	ected (yyyy/mm/dd)
Bruce Down:			21		2008/10/2	,,,,	15	urb	Lun		c 0199	2 m	Printer for Optario 2006

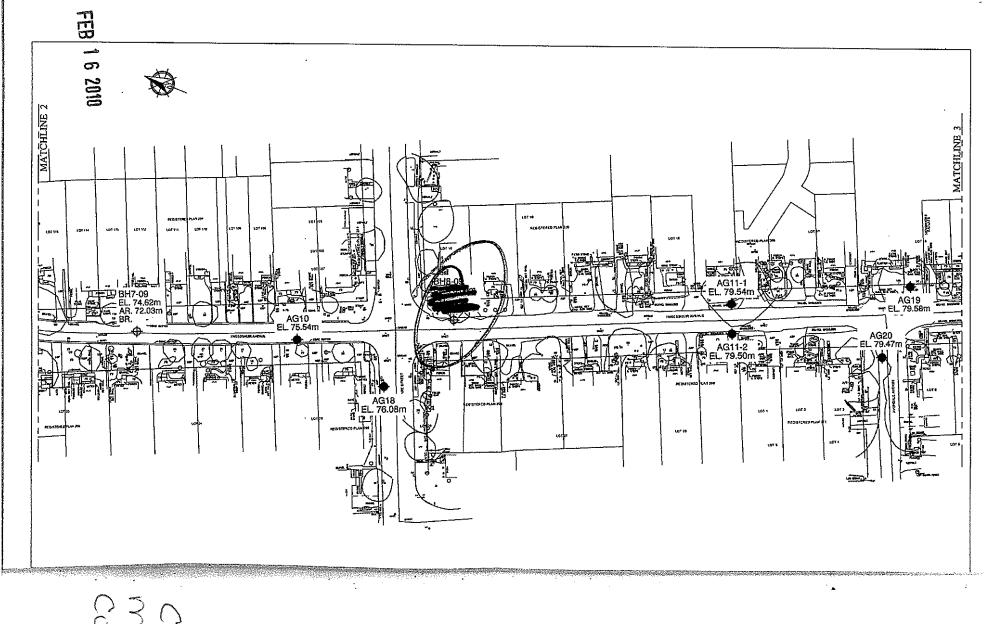
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Ontario Ministry of the Environment	it We	A 074567	t Well Tag No.)	Cluster Well Ir	nformation for Cluster Well Regulation 903 Ontario Wa	
		A074567			Page	of
Property Owner's Information					Consent	
First Name 255 Dischanged Road Last Nam		Mailing Address (Street No 255 Richr		unicipality	Property Owner's Consent to use clus	
255 Richmond Road Hold Province Postal Code	E-mail Address	200 Richr	nond Road	Offawa one No. (inc. area code)	Signature	Date (yyyy.:nm/dd)
CN			6	13	1 Mr al Min	NIAU 122008
Cluster Well Information					Consent to release additional informat	tion to the Director
Address of Well Location (Street Number/Name, RR)	Lot	Concession Township	C	ounty/District/Municipality	Signature of Technician/Contractor	Date (yyyy/mm/dd)
City/Town/Village Province	Postal Code	GPS Unit Make Model	Unit Mode of Operation	Undifferentiated		
O Hawa Ontario	D	GARMIN ETTEX.	Differentiated, specify:		- Bune Down	2008/10/29
	Il Depth of Hole Diameter Method of le (metres) (cm) Construction	Casing Material Casing Length (metres)	Screen Interval (metres) Annular Sp From To Sealant U		Comments	Date of Completion (yyyy/mm/dd)
HUY 18441 246502 6977 7	20/10 HSA/DIA	PVC 2.5	2.5 7.0 Benten	ita		2008/10/17
•						
	-					
Well Contractor and Well Technician Inform	mation				Date 1st Well in Cluster Constructed Date Last	Well in Cluster Constructed
Business Name of Well Contractor George Dirwing Estate Drilling [410 Pup	(Street Number/Name, RR)	Municipality Rom	Province	())))(0))(0)(0)(0)(0)(0)(0)(0)(0)(0)(0)(208/10/17
Postal Code Business Telephone No. (m JOVIBD 8 (924)2		Dincipale Growi Dr's Licence No. Business E-mail A		0	Date Received (yyyy/mm/dd) Date Ins	spected (yyyy/mm/dd)
Name of Well Technician (First Name, Last Name)		n's Licence No. Date Submitted (y)	12		NOV 2 4 2008 Audit No. 0 1 0 0 5 Remarks	5- QAA
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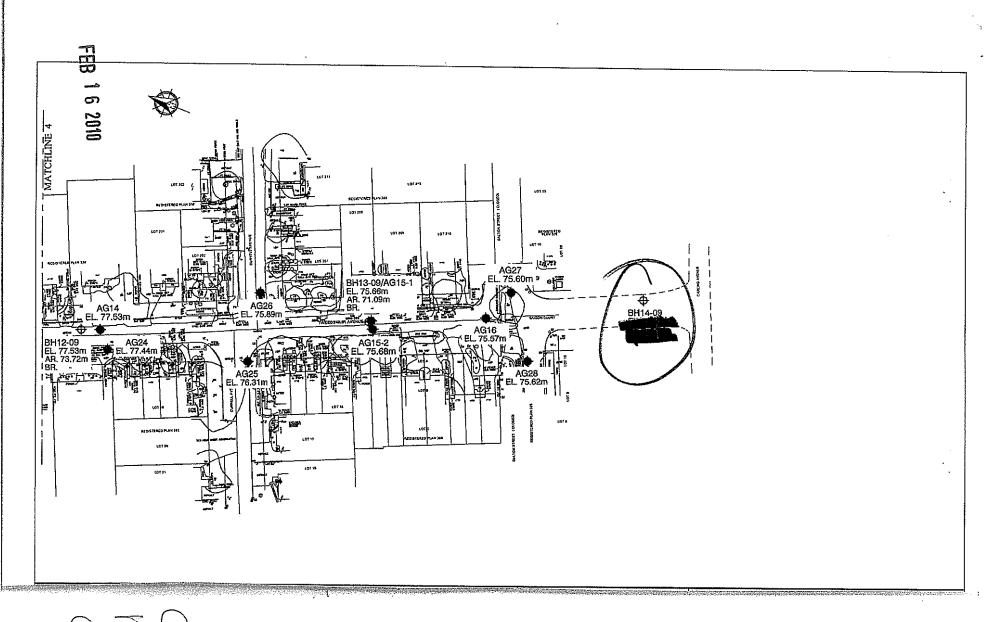
Trow Associates Inc. 154 Colonnade Road South, Ottawa, Ontario K2E 7J5 Tel: (613) 225-9940 Fax: (613) 225-7337	
CHE OCT 2008 CH CTK CTK BOREHOLE & MONITORING WELL LOCATION PLAN 255 RICHMOND ROAD, OTTAWA, ON.	SCALE 1:500± FIG 2
(-1844 mo2900 (01995	NOV 2 4 2008

() Ontai	io Ministry of the Environmen	nt			A	07	46	26	Print Well T 10746	iag No.) 026		Clu	ster Well Info	rmation for Clus Regulation 903 (Ontario Water	Resources Act
Property Owne	er's Information													F Consent	Page	of
Et-al Ni-		Last Name		1			Addr	ress (Street N	o./Name, F	R)	Muni	cipality		Broporty Ownor's Conco	nt to use cluster f	orm
Canadi	an Tire Rea	Last Name	a-te) delegan		21	80 Yor	ye I	P.O.	Box 770	Staho	n K Torante	Signature		Date (yyyy/mm/dd)
ÔN	m	4 P	2 V	8	Address				0		2)	615141	46438			
Cluster Well In	Iformation			<u> </u>							<u>I</u>	<u> </u>		Consent to release additi	ional information	to the Director
Address of Well Lo	ia Wenue			Lot		Concessio	on To	ownship			Cour	ty/District/Mun	licipality	Signature of Technician/Co	ontractor	Date (yyyy/mm/dd)
City/Town/Village		Province Ontario	Pos	tal Code		GPS Unit I	Make M	lodel		le of Oper entiated, s		differentiated	Averaged	Bure Da	ù	2009/06/24
Well # on Sketch Zone Easti	UTM Coordinates	Full De Hole (n	epth of netres)	Hole Diameter (cm)	Method of Construction	Casin	g Material	Casing Length (metres)	Screen Inte	erval (metres)	Annular Space Sealant Used	Static Water Level (metres)	Abandonment Sealant Used	Comments		Date of Completion (yyyy/mm/dd)
MW OGI		4.	9	20	HSA	P	VC	3.4	3.4	4.9	Bentonite	3.31				acon/04/20
MW 2 MW 2 MW 4 MW 4 MW 5 MW 5 MW 5 MW 5 MW 6 MW 6 MW 6 MW 6 MW 6 MW 6 MW 6 MW 6		4.	.9				ĺ	2.5	2.5	4.9		3.26				2009/04/21
MW t		Ц Ц.	6					26	2.6	4.6		2.69				2009/04/21
MWS 1		5						2.5	2.5	5.5		3.15				2009/04/22
mark		5.						2.5	2.5	5.5		2-54				2009/04/22
mun		H.						1.9	1.9	4.9		2.62			•	2009/04/22
Mar 1		4.		7	7			1.6	1.6	4.6	*	2.33				2009/04/22
							<u> </u>									
 ZŚŚŚŚWERODZOWERODZOWERODZOWERODZOWERODZOWE 	or and Well Technicia	in Informa	ition	1				·	•	ł	I			Date 1st Well in Cluster Constru (ppp/mm/dd) 2004/04/20		I in Cluster Constructed
Business Name of V	Well Contractor	N. II'	001	Busir	ness Address	(Street Nu	Imber/Na	me, RR)	(¹ 1)	Municipa	Ity D.		Province		<u> </u>	04122:
Postal Code	DWKING Estate Business Teleph BID 8119 Vician (First Name, Last Name	ione No. (inc.	area co	-Hel. hf		or's Licenci	e No. Bus	iness E-mail	Address	I dus	ta Ro	4		Ministry Use Only	Date Inspec	ted (yyyy/mm/dd)
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Bruce	Duhing	ine)				17 ·		e Submitted (y 2009/06		Signature) n	-	Audit No. c 05190	Remarks	JULY .
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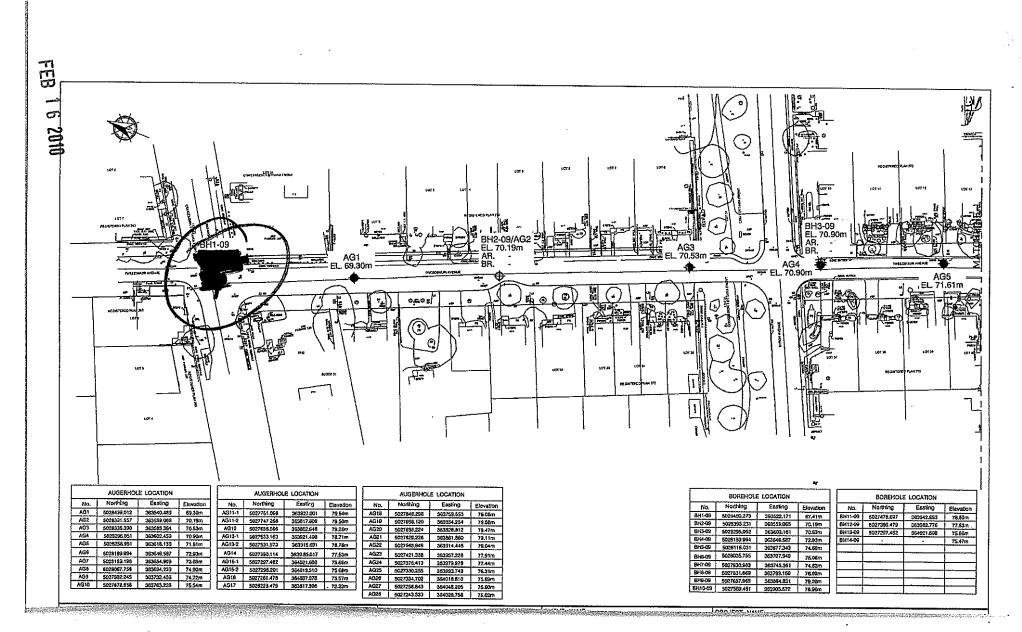
Ontario Ministry of the Environment	Well Tag No. for Ma	22	Print Well Te			Clus	ster Well Inf		tion 903 Onta		Resources Act
Property Owner's Information								Consent			<u> </u>
First Name Last Name	Mailing Addr	ess (Street No	./Name, R	RR)	Munici			ANS Sciences ender 465	ner's Consent to	use cluster fo	
City of Offawa Province Postal Code IE-mail Addre	100 Co	nstella	hon	. Cres	cent	OHawa Vo. (inc. area	2	Signature			Date (yyyy/mm/dd)
Province Postal Code $K 2 G 6 J 8$.	ress				lelephone r	No. (Inc. area ド を	code) 0 2 4 2 4	1			
Cluster Well Information									elease additional	information t	o the Director
Address of Well Location (Street Number/Name, RR)	Concession To	ownship			County	//District/Muni	icipality	upon reques			ID.I.
Tweedsmuin at Carling/Lichmond City/Town/Village Province Postal Code		<u> </u>							echnician/Contrac	IOF	Date (yyyy/mm/dd)
City/Town/Village Province Postal Code Offawa Ontario	GPS Unit Make M GARMIN	elle X		e of Opera entiated, sp		lifferentiated	Averaged	B	D	-	2009/11/23
	Method of Casing Material	Casing Length	Screen Inter		Annular Space	Static Water	Abandonment	Jour	Comments	\leq	<u> </u>
on Sketch Zone Easting Northing Hole (metres) (cm) Con	onstruction	(metres)	From	To	Sealant Used	Level (metres)	Sealant Used		Comments		Date of Completion (yyyy/mm/dd)
8+09 18 4411 71914510 257314 5.1 20/10 44	St/Dia Steel	3.5	3.5	5,1	Benonite			Richmond	RJ.		2009/08/14
Alt a play a protection of the second s	tsa "	4.5	4.5	4.1			-	Tweedsmin	. 10	1.	
I TO TO THE ALL AU H		_!·	<u>N J</u>	<u>u.</u>				Tweedsmin	n at har	ung	2009/08/14
Well Contractor and Well Technician Information								Date 1st Well in (yyyymm/dd)	Cluster Constructed	Date Last Well (yyyy/mm/dd) 2009	in Cluster Constructed
Business Name of Well Contractor	Address (Street Number/Nar			Municipali	× , ·	~ [Province		1	2009/	08/11.
<u>Cell rae Downing Estate Drilling Ltd 410</u> Postal Codel Business Telephone No. (inc. area dode) Well	Rue Princip I Contractor's Licence No. Busi	ale G	renvi	lle.	Ju de	Kouge	QC	Date Receive		Doto Incoast	ad (
· Jo V B B B B B B B B B B B B B B B B B B	Technician's Licence No. Date)(1) N I NO	0_h	ant.	ias.n	et V				Date inspect	ed (yyyy/mm/dd)
Name of Well Technician (First Name, Last Name)				Signature	of Technician	<u>) </u>		Audit No	6140	Remarks	
Bruce Downing	21111320	09/11/2:	5	Bu	nella	in	7	CU	0140	1000	201
		M	inistry's	Сору			I			© Queen's Pri	nter for Ontario, 2006



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Ontario Ministry of the Environment	it We	A 074567	t Well Tag No.)	Cluster Well Ir	nformation for Cluster Well Regulation 903 Ontario Wa	
		A074567			Page	of
Property Owner's Information					Consent	
First Name 255 Dischanged Road Last Nam		Mailing Address (Street No 255 Richr		unicipality	Property Owner's Consent to use clus	
255 Richmond Road Hold Province Postal Code	E-mail Address	200 Richr	nond Road	Offawa one No. (inc. area code)	Signature	Date (yyyy.:nm/dd)
CN			6	13	1 Mr al Min	NIAU 122008
Cluster Well Information					Consent to release additional informat	tion to the Director
Address of Well Location (Street Number/Name, RR)	Lot	Concession Township	C	ounty/District/Municipality	Signature of Technician/Contractor	Date (yyyy/mm/dd)
City/Town/Village Province	Postal Code	GPS Unit Make Model	Unit Mode of Operation	Undifferentiated		
O Hawa Ontario	D	GARMIN ETTEX.	Differentiated, specify:		- Bune Down	2008/10/29
	Il Depth of Hole Diameter Method of le (metres) (cm) Construction	Casing Material Casing Length (metres)	Screen Interval (metres) Annular Sp From To Sealant U		Comments	Date of Completion (yyyy/mm/dd)
HUY 18441 246502 6977 7	20/10 HSA/DIA	PVC 2.5	2.5 7.0 Benten	ita		2008/10/17
•						
	-					
Well Contractor and Well Technician Inform	mation				Date 1st Well in Cluster Constructed Date Last	Well in Cluster Constructed
Business Name of Well Contractor George Dirwing Estate Drilling	410 Pup	(Street Number/Name, RR)	Municipality Rom	Province	())))(0))(0)(0)(0)(0)(0)(0)(0)(0)(0)(0)(208/10/17
Postal Code Business Telephone No. (m JOVIBB 8 (924)2		Dincipale Growi Dr's Licence No. Business E-mail A		0	Date Received (yyyy/mm/dd) Date Ins	spected (yyyy/mm/dd)
Name of Well Technician (First Name, Last Name)		n's Licence No. Date Submitted (y)	12		NOV 2 4 2008 Audit No. 0 1 0 0 5 Remarks	5- QAA
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Trow Associates Inc. 154 Colonnade Road South, Ottawa, Ontario K2E 7J5 Tel: (613) 225-9940 Fax: (613) 225-7337	
CHE OCT 2008 CH CTK CTK BOREHOLE & MONITORING WELL LOCATION PLAN 255 RICHMOND ROAD, OTTAWA, ON.	SCALE 1:500± FIG 2
(-1844 mo2900 (01995	NOV 2 4 2008

() Ontai	io Ministry of the Environmen	nt			A	07	46	26	Print Well T 10746	iag No.) 026		Clu	ster Well Info	rmation for Clus Regulation 903 (Ontario Water	Resources Act
Property Owne	er's Information													F Consent	Page	of
Et-al Ni-		Last Name		1			Addr	ress (Street N	o./Name, F	R)	Muni	cipality		Broporty Owner's Conce	nt to use cluster f	orm
Canadi	an Tire Rea	Last Name	a-te) delegan		21	80 Yor	ye I	P.O.	Box 770	Staho	n K Torante	Signature		Date (yyyy/mm/dd)
ÔN	m	4 P	2 V	8	Address				0		2)	615141	46438			
Cluster Well In	Iformation			<u> </u>							<u>I</u>	<u> </u>		Consent to release additi	ional information	to the Director
Address of Well Lo	ia Wenue			Lot		Concessio	on To	ownship			Cour	ty/District/Mun	licipality	Signature of Technician/Co	ontractor	Date (yyyy/mm/dd)
City/Town/Village		Province Ontario	Pos	tal Code		GPS Unit I	Make M	lodel		le of Oper entiated, s		differentiated	Averaged	Bure Da	ù	2009/06/24
Well # on Sketch Zone Easti	UTM Coordinates	Full De Hole (n	epth of netres)	Hole Diameter (cm)	Method of Construction	Casin	g Material	Casing Length (metres)	Screen Inte	erval (metres)	Annular Space Sealant Used	Static Water Level (metres)	Abandonment Sealant Used	Comments		Date of Completion (yyyy/mm/dd)
MW OGI		4.	9	20	HSA	P	VC	3.4	3.4	4.9	Bentonite	3.31				acon/04/20
MW 2 MW 2 MW 4 MW 4 MW 5 MW 5 MW 5 MW 6 MW 6 MW 6 MW 6 MW 6 MW 6 MW 6 MW 6		4.	.9				ĺ	2.5	2.5	4.9		3.26				2009/04/21
MW t		Ц Ц.	6					26	2.6	4.6		2.69				2009/04/21
MWS 1		5						2.5	2.5	5.5		3.15				2009/04/22
mark		5.						2.5	2.5	5.5		2-54				2009/04/22
mun		H.						1.9	1.9	4.9		2.62			*	2009/04/22
Mar 1		4.		7	1			1.6	1.6	4.6	*	2.33				2009/04/22
							<u> </u>									
 ZŚŚŚŚWERODZOWERODZOWERODZOWERODZOWERODZOWE 	or and Well Technicia	in Informa	ition	1				·	•	ł	L			Date 1st Well in Cluster Constru (ppp/mm/dd) 2004/04/20		I in Cluster Constructed
Business Name of V	Well Contractor	N. II'	001	Busir	ness Address	(Street Nu	Imber/Na	me, RR)	(¹ 1)	Municipa	Ity D.		Province		<u> </u>	04122:
Postal Code	DWKING Estate Business Teleph BID 8119 Vician (First Name, Last Name	ione No. (inc.	area co	-Hel. hf		or's Licenci	e No. Bus	iness E-mail	Address	I dus	ta Ro	4		Ministry Use Only	Date Inspec	ted (yyyy/mm/dd)
	<u> B D 8 9 </u>	242		1/6/9		41	f c	lownin	q eho	WK.	195. NA	<u>t</u>		Date Acceived (Pyring)		
Bruce	Duhing	ine)				17 ·		e Submitted (y 2009/06		Signature) n	-	Audit No. c 05190	Remarks	JULY
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😵 Ontario	Ministry of the Environment	11 M.W.	aster Well (Place S Good on A 0321		Cluster Well Construction Regulation 903 Ontario Water Resources Act
Master Well Owner's and	Land Owner's Infor		NUSL		Page of
First Name		Name		E-mail Add	Iress
Mailing Address (Street Numb	er/Name, RR)	Municipality	1 02 0	Province	Postal Code Telephone No. (inc. area code)
Location and Construction	on of the Master Wel	I in the Cluster	th 1.0.001	(770 Toeonto	M141F121V18141116214416141313
Address of Well Location (Stre		Towns	hip	CN	Lot Concession
County/District/Municipality	a Koda	City/To	own/Village		89 Province Postal Code
UTM Coordinates Zone, Eas	ting Northing	Č+	tawa. Model	Made of O	Ontario
NAD 8 3 18 44	10 11512 5012	40 CIA an	Make Model	Mode of O	peration: Undifferentiated Averaged tiated, specify
Overburden and Bedro General Most Common	ck Materials (see instr Other	uctions on the back General		Depth (Metres)	Hole Details
Colour Material	Materials	Description	From To	From To	Diameter (Centimetres)
11 Monetorie	ve well abo	indomment.	5	the strategic	and the second second second second second
Il Monutoria Remove casi with bento Reg 903.					
Remove casi	ng + screep	-; backfil	bouchole		
with benton	the to su	face as p	er MOE		
Reg 903.					Water Use
and the second second				Public In Domestic Co	dustrial Dewatering
				Livestock M	unicipal Donitoring est Hole Cooling & Air Conditioning
	at wet		and the second		Method of Construction
				Cable Tool	Air Percussion Digging
				Rotary (Convention Rotary (Reverse)	Jetting Other, specify
				Rotary (Air)	Driving
				Test Hole	Status of Well Abandoned, Insufficient Supply
				Replacement Well	Abandoned, Poor Water Quality
				Dewatering Well	tion) Abandoned, other, specify Now for ing the
			n na state di serie Manual di serie di	No Casing and So	creen Used Static Water Level Test
				Open Hole	lo Metres
Inside Diameter	Construction Det Material	Wall	Depth (Metres)		Screen
(Centimetres) (steel, plasti	c, fibregiass, concrete, ga	alvanized) Thickness	From To	Galvanized S Outside Diameter (Cer	teel Fibreglass Concrete Plastic ntimetres) Slot No.
				Water found at Dept	Mater Details
					Gas Fresh Salty Sulphur Minerals
				Water found at Dept	Toronto Calto Coloboro Minorala
Depth Set at (Metres)	Type of Sealant U	and the second se	Volume Used	Water found at Dept	
From To	(Material and Typ	0)	(Cubic Metres)		Gas Fresh Salty Sulphur Minerals
0 4.7 6	entrule		·40 Kys	Disinfected Yes	The If no, provide reason: Date Master Well Conditioned
					2008/10/01
				Information for Wel	(Please also fill out the additional Cluster Well I Construction for each parcel of land and cluster.)
				Total Wells in Cluster	r Please indicate Number of Cluster Well Information Log Sheets Submitted
and the second second second		Martin and Contractor		Total Wells on this P	
				UNKNOW	Location of Well Cluster
				Detailed Map must be (8.5" x 14"). Sketches	e provided as an attachment no larger than legal size s are not allowed.
				Check box to cont	firm detailed map is provided as per Section 11.1 (3)
				the Director upon re	
				Signature of Technici	
Business Name of Well Contra	tractor and Well Tech	Well Cont	ractor's Licence No.	Master Well Owner's	s/Land Owner's consept to use Cluster Form
George Down; no Business Address (Street No.#	g Estate Dri	Iling 1	8444	Signature	Date (yyy/mm/dd)
Business-Address (Street No.#	Hame, number, RR)	Municipality	10- Raupa	Lin	Ministry Use Only
Province Postal Co	ncipale Gri Business E-ma	il Address	L	Audit No.	2895 Well Contractor No.
Q C JOIV Bus. Telephone No. (inc. area coo	BD down.	ng @ Xplon	net. (om	Date DE Ged 3 v f m	
8192426460	Downia		ame) amitted (yyyy/mm/dd)		
Well Technician's Licence No. Sic	makere of Technician	Date Sub	mitted (yyyy <i>imm/dd</i>)	Remarks	
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8	Ontario	Ministry of the Environment	I	ag No. for M		₽ <u></u> ¶	Sticker and/o. NW 0		Cluster Well Construction			
Master W	ell Owner's and	Land Owner's Info				<u> </u>	<u>nw v</u>	9-03] 1949	of		
First Name	I	Las	t Name	Lo]]	1			hail Add	lress			
	Iress (Street Numbe			Aunicipality	· * / *	7	Provir	- 1 ···	Postal Cod			
) <u>JONG</u> and Construction	Nof the Master W	<u>CX 7</u> ell in the	<u>ID SFA</u> Cluster	<u>i k</u>	lorc	<u>nto </u>	<u>0N</u>	17141P12	<u>N18141161544464138</u>		
	Well Location (Stree	et Number/Name, RR)		Towns	ship				Lot	Concession		
County/Dis	POFFICLOS trict/Municipality	avenue		City/Te	own/Villag	je				Province Postal Code		
UTM Coordi	inates Zone , East	ing Northing	0	GPS Uni	Hac	Nodel		Mode of O	noration:	Ontario		
NAD	8131 118 446	117115506	127	19CSAR	<u>win</u>	121	er		tiated, specify			
General	Most Common	K Materials (see ins) Other	G	Seneral	Depth	(Metres)		(Metres)	Hol	e Details Diameter		
Colour	Material	Materials	De L	scription	From	To	From	To		(Centimetres)		
Brain	Jana	Cobblest t	Jours	<u>eus</u>	0	3.5	0	5.6	20			
Drey	Jandy C	lay, some	5117	loose	3.5	3.7			· · · · · · · · · · · · · · · · · · ·			
Orey	SUL			I	3.7	43		eren Belenen	11144 11144			
Orey	any ci	lay, time t		de 🖌 de la composición de la	43	56	Frankrikelenderstation					
		New NY	2074	loose			Public	[] In	dustrial	ter Use		
		a	wei			2713 	Domes			Dewatering Monitoring		
			1				Irrigatio	on 🗌 Te		Cooling & Air Conditioning		
						·	Cable	Tool	Air Pe	rconstruction		
					11111111111111111111111111111111111111	<u>_</u>		(Convention (Reverse)	al) 🗌 Diamo			
							Rotary	(Air)	🗍 Drîvîn	-		
							Test H	ole		s of Well Joned, Insufficient Supply		
							Replac	ement Well	Aban Other	doned, Poor Water Quality		
								-		doned, other, specify		
					-		No Cas Open Hole		reen Used	Static Water Level Test		
		Construction De	tails				1	Yes 🖓		2,195 Metres		
Inside Diam (Centimetr		Material fibreglass, concrete, g	alvanized)	Wall Thickness	Depth (From	Metres) To	Galvan	ized 🗌 S		eglass Concrete		
51	PVC			Sched 40	0	2.6		ameter (Cer 5, 8	itimetres)	Slot No.		
•						I	[Water D			
								nd at Depth	N Kind o	of Water IshSaltySulphurMinerals		
							L.L	Metres		of Water		
Depth Set at		Space/Abandonmei Type of Sealant (Record	Malum	e Used		Metres		shSaltySulphurMinerals		
From	То	(Material and Typ			(Cubic	Metres)		Metres	1	sh Salty Sulphur Minerals		
0.2	2.6 Ber	storite			44	Kgs	Disinfected	Ves 🖸	Hio If no, prov	ide reason: Date Master Well Completed (yyy/mm/dd)		
		·····					ć	nito		Solar Color of 1221		
							Informati	on for Well	Construction	fill out the additional Cluster Well n for each parcel of land and cluster.)		
							Total Wel	ls in Cluster		Please indicate Number of Cluster Well Information Log Sheets Submitted		
		,		·····			Total Well	ls on this Pr				
									Location o	f Well Cluster		
		······					(8.5" x 14'	 Sketches 	are not allow	an altachment no larger than legal size ed.		
							Consent t	o release a	dditional info	ap is provided as per Section 11.1 (3)		
							the Direct	or upon rea	uest n/Contractor	Date (yyy/mm/dd)		
Pupie 1		ractor and Well Tecl	nnician Ir				Bu	<u>ne l</u>	Same -	~ 2009/06/24		
Genou	me of Well Contracto	C_{1}	illino	Well Contr	actor's Lice 8 LL	ence No.	Master We Signature	sii Owner's		's consent to use Cluster Form Date (yyy/mm/dd)		
Business Add	dress (Street No./Na			funicipality	P-	D	4			2009/07/24		
Province	Postal Cod	e Business E-ma	n VIIL ail Address	e sur	Na i	touge	Audit No.			/ Use Only Well Contractor No.		
<u>Bus</u> , Telenhon	JOV ne No. (inc. area code)	Name of Well Technic	ian (Last N	hauki		not	1994199999	M U4	483	Data of Inspection, Assumption		
81192	426469	Downin	s B	ricce	· · ·		Date Rece AUG	3 1 20	09	Date of Inspection (yyyy/mm/dd)		
vveii Technicia	in's Licence No. Sign	ature of Technician	/' e	Date Subr		y/mm/dd) ユリ	Remarks					
1992 (11/2006)		<u>. er et en </u>		>		⊿7 linistrv'	s Copy			© Queen's Printer for Ontario, 2006		

From: To:

Sent:

Friday, May 30, 2008 12:22 PM GPS coordinates - 109 Richmond Road Subject:

Hi 🗌

Here are the GPS coordinates for the monitoring wells installed at 109 Richmond Rd.

Monitoring well ID	Easting	Northing	Accuracy (+/-)m
MW 101	441748	5027285	6
MW102	441751	5027286	5
MW103	441757	5027271	5
MW104	441726	5027282	6
MW105	441731	5027276	6
MW106	441736	5027265	6
MW107	441737	5027258	5
MW108	441751	5027263	5
MW109	441746	5027276	5
MW110	441728	5027293	8
MW111	441751	5027269	5
MW112	441742	5027285	5

I hope this helps out, let me know if there is anything else I can provide you with, have a good weekend,

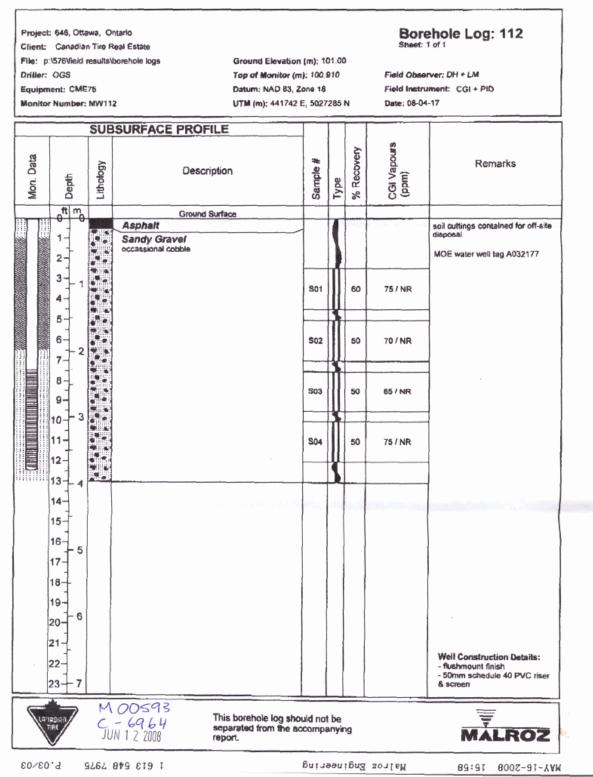
Regards,

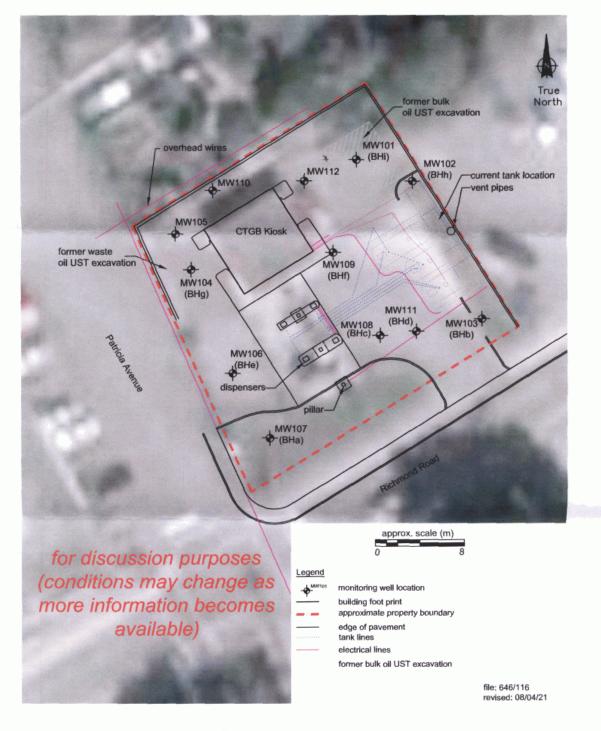
No virus found in this incoming message. Checked by AVG. Version: 7.5.524 / Virus Database: 269.24.4/1474 - Release Date: 5/30/2008 7:44 AM

M 00593 JUN 12 2008 C-6964

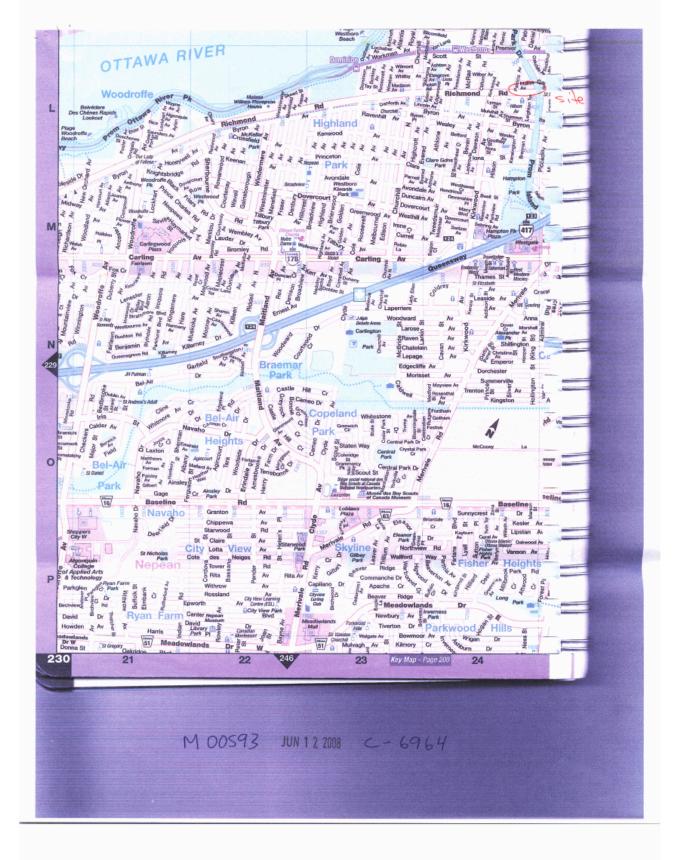
5/30/2008

CO.9 JATOT





MODS93 JUN122008 C-6964

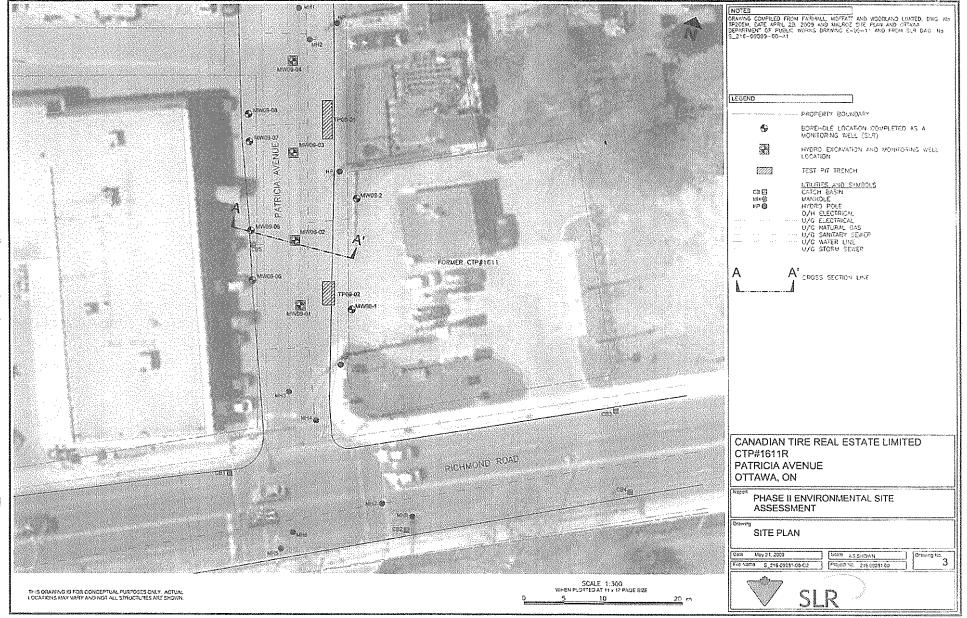


😵 Ontario	Ministry of the Environment	11 M.W.	aster Well (Place S Good on A 0321		Cluster Well Construction Regulation 903 Ontario Water Resources Act
Master Well Owner's and	Land Owner's Infor		NUSL		Page of
First Name		Name		E-mail Add	Iress
Mailing Address (Street Numb	er/Name, RR)	Municipality	1 02 0	Province	Postal Code Telephone No. (inc. area code)
Location and Construction	on of the Master Wel	I in the Cluster	th 1.0.001	(770 Toeonto	M141F121V18141116214416141313
Address of Well Location (Stre		Towns	hip	CN	Lot Concession
County/District/Municipality	a Koda	City/To	own/Village		89 Province Postal Code
UTM Coordinates Zone, Eas	ting Northing	Č+	tawa. Model	Made of O	Ontario
NAD 8 3 18 44	10 11512 5012	40 CIA an	Make Model	Mode of O	peration: Undifferentiated Averaged tiated, specify
Overburden and Bedro General Most Common	ck Materials (see instr Other	uctions on the back General		Depth (Metres)	Hole Details
Colour Material	Materials	Description	From To	From To	Diameter (Centimetres)
11 Monetorie	ve well abo	indomment.	5	the strategic	and the second second second second second
Il Monutoria Remove casi with bento Reg 903.					
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Reg 903.					Water Use
and the second second				Public In Domestic Co	dustrial Dewatering
				Livestock M	unicipal Donitoring est Hole Cooling & Air Conditioning
	at wet		and the second		Method of Construction
				Cable Tool	Air Percussion Digging
				Rotary (Convention Rotary (Reverse)	Jetting Other, specify
				Rotary (Air)	Driving
				Test Hole	Status of Well Abandoned, Insufficient Supply
				Replacement Well	Abandoned, Poor Water Quality
				Dewatering Well	tion) Abandoned, other, specify Now for ing the
			n na state di serie Manual di serie di	No Casing and So	creen Used Static Water Level Test
				Open Hole	lo Metres
Inside Diameter	Construction Det Material	Wall	Depth (Metres)		Screen
(Centimetres) (steel, plasti	c, fibregiass, concrete, ga	alvanized) Thickness	From To	Galvanized S Outside Diameter (Cer	teel Fibreglass Concrete Plastic ntimetres) Slot No.
				Water found at Dept	Mater Details
					Gas Fresh Salty Sulphur Minerals
				Water found at Dept	Toronto Calto Coloboro Minorala
Depth Set at (Metres)	Type of Sealant U	and the second se	Volume Used	Water found at Dept	
From To	(Material and Typ	0)	(Cubic Metres)		Gas Fresh Salty Sulphur Minerals
0 4.7 6	entrule		·40 Kys	Disinfected Yes	The If no, provide reason: Date Master Well Conditioned
					2008/10/01
				Information for Wel	(Please also fill out the additional Cluster Well I Construction for each parcel of land and cluster.)
				Total Wells in Cluster	r Please indicate Number of Cluster Well Information Log Sheets Submitted
and the second second second		Martin and Contractor		Total Wells on this P	
				UNKNOW	Location of Well Cluster
				Detailed Map must be (8.5" x 14"). Sketches	e provided as an attachment no larger than legal size s are not allowed.
				Check box to cont	firm detailed map is provided as per Section 11.1 (3)
				the Director upon re	
				Signature of Technici	
Business Name of Well Contra	tractor and Well Tech	Well Cont	ractor's Licence No.	Master Well Owner's	s/Land Owner's consept to use Cluster Form
George Down; no Business Address (Street No.#	g Estate Dri	Iling 1	8444	Signature	Date (yyy/mm/dd)
Business-Address (Street No.#	Hame, number, RR)	Municipality	10- Raupa	Lin	Ministry Use Only
Province Postal Co	ncipale Gri Business E-ma	il Address	L	Audit No.	2895 Well Contractor No.
Q C JOIV Bus. Telephone No. (inc. area coo	BD down.	ng @ Xplon	net. (om	Date DE Ged 3 v f m	
8192426460	Downia		ame) amitted (yyyy/mm/dd)		
Well Technician's Licence No. Sic	makere of Technician	Date Sub	mitted (yyyy <i>/mm/dd</i>)	Remarks	
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∇	Ontario	Ministry of the Environment	Well A	07	45	67	er and/o	r Print Below)	Clust	ister W er Well	Cons	truct	tion
$\Sigma_{\sigma_{2'}}$	- 3			A074	156	1			Regulatio	n 903 Ontar Pa		of	es Act
Master W First Name	ell Owner's and	Land Owner's Infor	mation Name				and the second	E-mail Add					
255		ond Koad	Lal	din	90		Provi		Postal Code	Tolor	hone No. (inc area	codel
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		n of the Master We et Number/Name, RR)	II in the C	luster Towns	hip			12	Lot	Cond	cession	122/122	
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							the Dire	ector upon r			-		er to
	Well Con	tractor and Well Teo	hnician In	formation			Signatu	e of Technic	cian/Contractor		Date (1999)	nm/dd)	29
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8	Ontario	Ministry of the Environment	I	No. for M		₽ <u></u> ¶	Sticker and/o. NW 0	Print Below	Clust	aster Well Record for ter Well Construction on 903 Ontario Water Resources Act
Master W	ell Owner's and	Land Owner's Info				<u> </u>	<u>nw v</u>	9-03	<u> </u>	of _2
First Name	I	Lasi	t Name 5 F n -		1			hail Ado	lress	
	Iress (Street Numbe			nicipality	· * / *	7	Provir	- 1 ···	Postal Cod	
) <u>JONG</u> and Construction	DT. P.O.B on of the Master We	<u> </u>	<u>> 540</u> Iuster	<u>i k</u>	lorc	<u>nto </u>	<u>0N</u>	M4P2	<u>N18141161544464138</u>
	Well Location (Stree	et Number/Name, RR)		Towns	ship				Lot	Concession
County/Dis	FOFFICLOS trict/Municipality	avenue		City/Te	own/Villag	je				Province Postal Code
UTM Coordi	inates Zone , East	ing Northing	3	GPS Un	Hai	Nodel		Mode of O	noration:	Ontario
NAD	8131 118 446	117115500	1270	2CSAR	<u>win</u>	121	er		tiated, specify	
General	Most Common	K Materials (see insi Other	Ger	neral	Depth	(Metres)		(Metres)	Hol	e Details Diameter
Colour	Material	Materials	Desc	ription	From	To	From	To		(Centimetres)
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Drey	Jandy C	lay, some	SILT	6056	3.5	3.7			· · · · · · · · · · · · · · · · · · ·	
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Urey	राम्पु टा	ay, the +	o med s		43	5.6				
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						· · · ·	Cable	Tool	Method o	Construction
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					5		PTTest H	ole		is of Well
							Replac	ement Well	Aban	doned, Poor Water Quality
]	Dewate	-	tion) [] Other tion) [] Abani	, specny doned, other, specify
									reen Used	Static Water Level Test
		Construction De	taile		Valueau III.	- 1000 00000	Open Hole	Yes 🖂 🕅	6	2.1951 Metres
Inside Diam		Material fibreglass, concrete, g		Wall Thickness	Depth (From	Metres)	Galvan	ized 🗔 S		eglass Concrete Priastic
51	PVC	maregrass, sonarere, g	avanizedy	Sched 40	0	2.6	Outside Di	ameter (Cer	S	Slot No.
~~ (····				1	'	5.8		10
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					2		L.L	Metres		esh Salty Sulphur Minerals
		Space/Abandonmer	nt Sealing R	ecord) Statistic			Metres]Gas □Fre	shSaltySulphurMinerals
Depth Set at From	t (Metres) To	Type of Sealant U (Material and Typ			Volume (Cubic	e Used Metres)		nd at Depth Metres	1	of Water eshSaltySulphurMinerals
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						-1	mo	nito	ringl	1×15 2009/04/21
							Cluster I	iformation	(Please also	fill out the additional Cluster Well n for each parcel of land and cluster.)
								ls in Cluster		Please indicate Number of Cluster Well Information Log Sheets Submitted
							Total Wel	Is on this Pr		
							<u>ur</u>	ikner	·	f Well Cluster
										an attachment no larger than legal size
							D Check	box to confi	rm detailed m	ap is provided as per Section 11.1 (3)
							the Direct	or upon rea	quest	rmation concerning the cluster to
ĺ		CONCERNENT ALLER		anti-Alder Y. Service			Signatore	of Technicia	in/Contractor	Date (yyy/mm/dd)
Business Nai	me of Well Contract	ractor and Well Tech	ancian/info	Well Contr	actor's Lice	ence No.		ell Owner's	Land Owner	's consent to use Cluster Form
Ungo Business Arlo	L Downen dress (Street No./Na		Iling 1	d 1 2	<u>×14</u>	14	Signature		$\leq \sim$	Date (yyyy/mm/dd) 2009 / 07 / 24
410 R	ue Princip	ale Gre	nville	Sun	La	Rouge	<u> </u>		Ministr	/Use Only
Province		e Business É-ma	ail Address ùNGC	nov.V	inc	net	Audit No.	и 04	483	Well Contractor No.
Bus. Telephon	ie No. (inc. area code)	Name of Well Technici	an (Last Nan			, '}	Date Rece AUG	ved (ywy	WP	Date of Inspection (yyyy/mm/dd)
UI IMZ Well Technicia	1426461	DOLOHONS atore of Technician	9, D	Date Subi	nitted (yyy	y/mm/dd)	Remarks	~ 6.9	nd half	
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Master Well Owner's a	The letter restriction for an internal internal of the					E anali Ad			<u> </u>
First Name	iula_	st Name				E-mail Ad	dress		
Mailing Address (Street Nu	imber/Name, RR)	Municipality			Provir	nce	Postal Cod		e No. (inc. area code)
100 Constell			wa	terteconería uno	0	<u>N</u>	KIZIGIL	25181 1 1	
Location and Constru Address of Well Location (nship	-			Lot	Concess	ion
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County/District/Municipalit		City/	Town/Villag					Province	Postal Code
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	· · · · · · · · · · · · · · · · · · ·	·			Livesto	ock 🗍 M	lunicipal	Monitoring	
			-		Irrigati	on [] T		Cooling & Air Cor	iditioning
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					Open Hole	9		1 1 1	fetres
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Inside Diameter (Centimetres) (steel, pl	Material astic, fibreglass, concrete, j	galvanized) Wall Thicknes		(<i>Metres)</i> To	Galvar	nized 🗌 S	Steel 🗌 Fibr		crete Plastic
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	ner's Information	_	<u>n .</u>	<u> </u>	000000000000000000000000000000000000000	A raye	
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	en and Bedrock Materi			rd (see instructions on the	back of this form)		Death (as (0)
General C	olour Most Comn	non Material	Oth	er Materials	General Description		Depth (<i>m/ft</i>) From To
	<u>n</u>						
	8						
				2.0			
		Annular S				ell Yield Testing	and the second
Depth Se From	et at (<i>m/ft)</i> To	Type of Seala (Material and		Volume Placed (m³/ft³)	After test of well yield, water was:	Draw Down Time Water Lev	Recovery el Time Water Level
0'	05' Cen	ient			Other, specify	(min) (m/ft) Static	(min) (m/ft)
0.51	12' Ber	tonit	e		If pumping discontinued, give reason:	Level	
121	23' San	d			Pump intake set at (m/ft)	1	1
					r ump intake set at (mm)	2	2
Met	hod of Construction		Well Us	e	Pumping rate (I/min / GPM)	3	3
	col Diamono Conventional) Jetting	I Publ			Duration of pumping	4	4
Rotary (I	Reverse) Driving	Live	stock 🗌 Test Hol	le Monitoring	hrs + min	5	5
Air percu		Irriga		& Air Conditioning	Final water level end of pumping (m/ft)	10	10
Other, s			er, specify	Otettus of Well	If flowing give rate (I/min / GPM)	15	15
Inside	Construction R Open Hole OR Material	Wall	Depth (<i>m/ft</i>)	Status of Well Water Supply	Recommended pump depth (m/ft)	20	20
Diameter (cm/in)	(Galvanized, Fibreglass, Concrete, Plastic, Steel)	Thickness (cm/in)	From To	Replacement Well Test Hole		25	25
1.25"	Plastic	0.25"	0' 13'	Recharge Well Dewatering Well	Recommended pump rate (I/min / GPM)	30	30
	at a second second			V Observation and/or	Well production (I/min / GPM)	40	40
				Monitoring Hole	Disinfected?	50	50
				(Construction)	Yes No	60	60
Outside	Construction R	ecord - Scree		Insufficient Supply Abandoned, Poor Water Quality	Map of W Please provide a map below following	ell Location	back I
Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (<i>m/ft</i>) From To	Abandoned, other,	Thease provide a map below following		
1.5"	Plastic	10	13' 23'	specify		ma	
				Other, <i>specify</i>		12 sta	
	Water De	tails	н	lole Diameter	1	00	
	nd at Depth Kind of Wate		Untested Dept From	th (<i>m/ft</i>) Diameter To (<i>cm/in</i>)	T	3	Ø
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	n/ft) Gas Other, spe						- 11
	nd at Depth Kind of Wate		Untested			15	m
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Business N	ame of Well Contractor	moli		Contractor's Licence No.	richmond R	-d	
Business A	ddress (Street Number/Na	ime)	Mu	inicipality	Comments:		
2-14 Province	7 west Be Postal Code		Creek R E-mail Address	ichmondH	4		
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Crty of Ottawa-Covol Molmes by V Mailing Address (Street Number/Name) Municipality Province Postal Code Telephone No. (in IO1 Center pointe Dr Nepean OW K2651k7k1135580 Well Location Address of Well Location (Street Number/Name) Township Lot Concession Tweedsmust North of Richmond Rel Lot Concession	Il Constructed Well Owner
Well Owner's Information First Name Last Name / Organization E-mail Address Well Of Hawa - Coul Holmes Municipality Province Postal Code Telephone No. (in Multicipality Monicipality Province Postal Code Telephone No. (in Multicipality Municipality Township Lot Concession Multicipality City/Town/Vijlage Province Postal	Il Constructed Well Owner
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Additing Address (Street Number/Name) Municipality Province Postal Code Telephone No. (in OI Center pointep Nepean ON K265K7&II35580 Vell Location Township Lot Concession Keedsmult North of Richmond Rc/ City/Town/Village Province Postal Code	c. area code)
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verburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form)	epth (<i>m/ft</i>)
General Colour Most Common Material Other Materials General Description From	
Annular Space Results of Well Yield Testing	
Depth Set at (m/tt) Type of Sealant Used Volume Placed After test of well yield, water was: Draw Down	Recovery
From To (Material and Type) (m²/ħ³) Clear and sand free Time Water Level Time A1 D S1 C Para era f (min) (min) (min) (min)	
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3 perputte 1 1	
Pump intake set at (m/ft) 2 2	
Pumping rate (Umin / GPM) 3 3	
Method of Construction Well Use Hampling des (sites) of my Cable Tool Diamond Public Commercial Not used	
Rotary (Conventional)] Jetting] Domestic] Municipal] Dewatering] Duration of pumping Rotary (Reverse)] Driving] Livestock] Test Hole [St Monitoring]] hrs +min [5] [5]	
Boring Digging Irrigation Cooling & Air Conditioning Final water level and of pumping (m/tt) 10 10	
Air percussion Industrial Other, specify Other, specify If flowing give rate (<i>limin / GPM</i>) 15	
Construction Record - Casing Status of Well 20 20	
Inside Open Hole OR Material Wall Depth (m/tt) Water Supply (Galvanized, Fibregiass, Thickness (com/in) Concrete, Plastic, Steel) (com/in) Concrete, Plastic, Steel) (com/in) Concrete, Plastic, Steel)	
75" Plastic 0.25" 0' 10 (Recharge Well (Vmin / GPM) 30 30	
Dewatering Well	
Observation and/or Monitoring Hole Monitoring Hole So So So So So	
Construction) Disinfected? 60 60	
Construction Record - Screen Abandoned, Poor Map of Well Location	
Outside Material Slot No. Depth (m/tt) Water Quality Please provide a map below following instructions on the back.	
(antin) (Plastic, Genvarized, Stell) From To specify set	
5" Plastic 10 10' 20'	May
Water Datails Hala Diameter	Milt
ater found at Depth Kind of Water: Fresh Untested Depth (m/t) Diameter	1
(<i>m/ft</i>) Gas Other, specify From To (<i>cm/fn</i>) W 30 Cm	1
ater found at Depth Kind of Water: Fresh Untested O' 10' 3.25''	
ater found at Depth Kind of Water: Fresh Untested	
(m/ft) Gas Other, specify	
Islipess Name of Well Contractor Well Contractor's Licence No. R. Chmond Col	
usiness Address (Street Number/Name) Ing 724(Municipality Comments:	
ovince Postal Code Business E-mail Address	no Orth
ovince Postal Code Business E-mail Address DW LABICLE W records Schoole Silcon Is Telephone No. (Inc. area code) Name of Well Technician (Last Name, First Name) Well owner's Date Package Delivered Ministry Us information Date Package Delivered Audit No.	
ovince Postal Code Business E-mail Address DW LHBI Cle Wrecord So Strade Silcon is Telephone No. (inc. area code) Name of Well Technician (Last Name, First Name) 057649304 Mult, Mike Z10 Date Work Completed	se Only 6622
ovince Postal Code Business E-mail Address D H B I Cle W record Se Stock Silcon us Telephone No. (inc. area code) Name of Well Technician (Last Name, First Name) D S 76 49 30 H Mult Mit Ke Date Work Completed Date Work Completed	

😵 Ontario	Ministry of the Environment	Well Tag Number (Pla		nt number below)	Regulation 903 Ontar	Well Record
Instructions for Comple	ing Form	.ñ. s ^e n	60414	1		page of
 For use in the Province of Ontario only. This document is a permanent legal document. Please retain for future reference. All Sections must be completed in full to avoid delays in processing. Further instructions and explanations are available on the back of this form. Questions regarding completing this application can be directed to the Water Well Help Desk (Toll Free) at 1-888-396-9355. All metre measurements shall be reported to 1/10th of a metre. Please print clearly in blue or black ink only. 						
Well Owner's Informatio	n and Location of	Well Information				LOT
CANADIAN 7 County/District/Municipality	Last Name	Young	er/Name, RR,Lot,Concession) <u>e57456</u> al Code Telephone I			
R.M. OF York Address of Well Location (Cour	ty/District/Municipality)		wnship	~	1Pavg	Concession
CITY 05 D RR#/Street Number/Name	Hana hmond RD.		City/Town/Vi	llage	Site/Compartment/	/Block/Tract etc.
GPS Reading NAD Z	one Easting	Northing 5P 27240	Unit Make/M	odel Mode	of Operation: Undifferentiat	
Log of Overburden and I General Colour Most commo		(see instructions) Other Materials		Genera	al Description	Depth Metres
Bron Samo		bbles		Genera		From To
Gren Silt	Sar	no + cobbles				1.52 3.65
	For	TesT Hole	s (mor	ntering	hells)	
·	In	stalled on s	142	*******		
Hole Diameter		Construction Reco	ord		Test of We	
Depth Metres Diameter From To Centimetre	s diam Mate	erial Wall thickness	Depth	Metres	TimeW	/ Down Recovery/ ater Level Time Water Level
0 3.65 15.24		centimetres Casing	From	То	Pump intake set at - Static (metres) Level	Metres min Metres
	5,98 Steel	Fibreglass	0	2,43	Pumping rate 1 (litres/min)	
Water Record	Galvanize	ad HO		3,4)	Duration of pumping 2 hrs + min	2
m Fresh Sulphu Gas Salty Mineral		Concrete			Final water level end of pumping metres	3
Other:	Steel]Fibreglass			Recommended pump 4 type.	4
Gas Salty Mineral					Recommended pump 5 depthmetres	5
Gas Salty Mineral	s Outside Steel	Fibreglass Slot No.			Recommended pump 10 rate. (litres/min) 15	10
Other:After test of well yield, water was	Plastic	Concrete	2.43	3.65	If flowing give rate - 20 (litres/min) 25	20
Clear and sediment free	3,0 % Galvanize	No Casing or Scre	en		If pumping discontin- ued, give reason. 30 40	30 40
Chrorinated Yes No	Open hole	e			50 60	50 60
Plugging and S Depth set at - Metres Material and t	sealing Record	ment slum) etc Volum	andonment e Placed	In diagram below	Location of Well show distances of well from road,	lot line, and building.
From To	out cover in	(Cubic	: metres)	Indicate north by	arrow. Rochmond	noi
2.45 2.13 Bent	on ite chips	•		(母)	CANADIAI	~
				- 15 27~	Tine Store	
	Method of Constructi			43		
Cable Tool Rotan Rotary (conventional) Air pe Rotary (reverse)	rcussion	letting	Digging Other	Sate	a second	3.2-
Rotary (reverse) Boring Domestic	Water Use	Driving		21	1~ 43 1~	\$ #2 <5 \
Stock Comm	nercial	Public Supply Not used Y	Other	Audit No.	Date Well Co	ompleted
Water Supply Recharge	Final Status of Wel		ned, (Other)	Was the well ow	64429	2000 100 100
Observation well Abandonee Test Hole Abandonee	l, insufficient supply	Dewatering		package delivered	d? Yes Xio	
Name of Well Contractor	ntractor/Technician Ir	Well Contractor's Li	icence No.	Data Source	Ministry Use Only Contractor	n 2 5
Business Address (street name, num RRPG NCP		7083		Date Received	MM DD Date of Inspe	ction YYYY MM DD
Name of Well Technician (last name,	first name) urnbull Mile	Well Technician's L		Remarks	Well Record	Number
Signature of Technician/Contractor	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Date Submitted YYYY	MM DD	-		
0506E (08/2006)			y's Copy	· · · ·	Cette formule e	st disponible en français

APPENDIX 3

QUALIFICATIONS OF ASSESSORS

Mark S. D'Arcy, P. Eng.

Environmental

Engineering

Geotechnical

Engineering

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

Ottawa Geotechnical Group Professional Engineers of Ontario

EXPERIENCE

1991 to Present **Paterson Group Inc.** Associate and Senior Environmental/Geotechnical Engineer Environmental and Geotechnical Division Supervisor of the Environmental Division

SELECT LIST OF PROJECTS

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

KARYN MUNCH, P.ENG.

patersongroup

POSITION

Intermediate Environmental Engineer

EDUCATION

Carleton University, B.Eng. 2002 Environmental Engineering

MEMBERSHIPS AND AWARDS

Professional Engineers of Ontario Ottawa Geotechnical Society

EXPERIENCE

2011-present **Paterson Group Inc.** Consulting Engineers Geotechnical and Environmental Division Intermediate Engineer

2009-2010 Department of Indian and Northern Affairs Contaminated Sites Division Environment Officer (PC-02)

2003 to 2009 **Paterson Group Inc.** Consulting Engineers Geotechnical and Environmental Division Intermediate Engineer

2002 to 2003 Dessau Soprin Inc. Consulting Engineers Environmental Division Junior Engineer

SELECT LIST OF PROJECTS

ences	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 3W Zone Feedermain – Ottawa
logy	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

Environmental Engineering

Geotechnical Engineering

Materials Testing Quality Control

Building Sciences

Hydrogeology