

PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

316 SOMERSET STREET EAST, OTTAWA, ON



Project No.: OCP-17-0637

Prepared for:

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McINTOSH PERRY

Executive Summary

McIntosh Perry Consulting Engineers Ltd. (McIntosh Perry) was retained by TC United to conduct a Phase One Environmental Site Assessment (ESA) for the property located at 316 Somerset Street East, in Ottawa, Ontario ('the Site'). The Site consists of a 1.5 storey single-family residential dwelling, which is currently unoccupied.

It is understood that this Phase One ESA is being completed as a component of the City of Ottawa Site Plan submission process, in support of an application to construct a mixed use building which will include four residential units and one commercial unit on the ground floor.

The Phase One ESA has been prepared in general accordance with the requirements of Ontario Regulation (O.Reg.) 153/04 as amended. The report is also in general compliance with "Phase I Environmental Site Assessment", Canadian Standards Association (CSA) standard CSA Z768-01, reaffirmed 2016.

Based on a review of aerial photographs, historical information, and interviews, the Site was developed with the present-day residential dwelling between 1928 and 1950. Prior to this time, the site was vacant.

One Potentially Contaminating Activity (PCA) was identified at, on, or under the Site.

- Ontario Spill record – Furnace Oil tank in back yard – unknown amount of fuel

Based on the nature of this record and its location on-Site, this PCA is considered to result in an APEC at the Site.

The following offsite PCAs were identified in the Phase One ESA Study Area:

- 330 Templeton Street – Ontario Spill Record (underground fuel storage tank leak)
- 330 Templeton Street – O.Reg 347 waste generator (oil skimmings and sludges)
- 82 Goulburn Avenue – Ontario Spill record (2 L transformer oil leak)

Based on the nature of these records and their separation distance from the Site these off-site PCAs are not considered to result in APECs at the Site.

Based on the presence of the on-site APEC associated with the spill record from the fuel oil tank, and in the absence of any further information on cleanup or environmental impacts, ***it is recommended that a Phase 2 ESA be completed to determine the presence of subsurface impacts associated with the spill.***

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1.0 INTRODUCTION

McIntosh Perry Consulting Engineers Ltd. (McIntosh Perry) was retained by TC United Group to conduct a Phase One Environmental Site Assessment (ESA) for the property located at 316 Somerset Street East, Ottawa, Ontario ('the Site'). The Site is bounded to the north by Somerset Street East, and to the east, west, and south by residential dwellings. The Site currently consists of a single family residential building with a detached garage. The dwelling is currently unoccupied.

It is understood that this Phase One ESA is being completed as a component of the City of Ottawa site plan submission process, in support of an application to construct a mixed use building which will include four residential units and one commercial unit on the ground floor.

The Site location is shown on Figure 1 (Site Location). The Site layout and features, including on-site land use, are shown on Figure 2 (Site Layout).

The intended future use of the Site will be mixed use.

1.1 Phase One Property Information

The Site is zoned as Residential Fourth Density Zone, which is described under section 161-162 of the City of Ottawa Zoning By-law. This zoning permits the current land use at the Site.

The total area of the Site is approximately 0.035 hectares (ha).

1.1.1 Property Identification

The legal description of the Site is as follows;

Plan 147991 Lot 52 to 53 PT; Somerset S RP5R-6650) Part 3. PIN - 042060003

1.1.2 Property Ownership and Contact Details

McIntosh Perry was retained to complete this Phase 1 ESA by TC United Group, the owner of the property. McIntosh Perry's site contact person for the Site is Daniel Boulanger, Director of Planning & Consulting. Mr. Boulanger can be contacted at dan.boulanger@tcunitedgroup.com.

1.1.3 Current and Proposed Future Uses

The Site is currently vacant. Until recently, the Site was used for residential purposes. The future use of the Site is a new mixed use building which will consist of 4 residential units and 1 commercial unit on the ground floor.

1.2 Surrounding Land Use

Land use in the vicinity of the Site is predominantly residential, although commercial, community, parkland, and transportation (road) uses are also noted within the Phase 1 study area.

2.0 SCOPE OF INVESTIGATION

A Phase One ESA is a preliminary environmental screening tool designed to provide a qualitative assessment of the environmental condition of a site, based on a desktop review of available documentation pertaining to the site and observations made during a site visit. Sampling and chemical analysis of soils, groundwater, and/or other materials/substances are beyond the scope of work for a Phase One ESA.

The Phase One ESA has been prepared in general accordance with the requirements of the following legislation:

- Ontario Regulation (O.Reg.) 153/04 - Records of Site Condition (as amended).

The report is also in general compliance with:

- “Phase One Environmental Site Assessment”, Canadian Standards Association (CSA) standard CSA Z768-01, Reaffirmed 2016.

A designated substances survey was not completed as part of the current investigation.

The subject property is not an ‘Enhanced Investigation Property’ as defined in O.Reg. 153/04 (as amended).

3.0 RECORDS REVIEW

3.1 General

3.1.1 Phase One Study Area Determination

The Phase One Study Area includes the following properties:

- The Site
- All properties within approximately 250m of the Site boundary (Phase 1 Study Area)

The Phase One ESA Study Area, including surrounding land uses, is shown on Figure 3 & 4 (Study Area & Surrounding Land Use respectively).

3.1.2 First Developed Use Determination

The Site currently consists of a single family, 1.5-storey residential house.

Based on a review of aerial photographs and historical information, the Site appears to have been developed to its current use and general configuration at some time between 1928 and 1956. Prior to development the site was vacant.

3.1.3 Fire Insurance Plans

The Catalogue of Canadian Fire Insurance Plans (FIPs) was searched as part of this Phase One ESA. Records from 1956 were obtained. The present-day buildings (residential dwelling and detached garage) were constructed at the time of preparation of the FIPs. The FIPs did not identify any environmental concerns at the Site or in the immediate vicinity. FIPs are included in Appendix B.

3.1.4 Chain of Title

No Chain of Title search was conducted as part of this report

3.1.5 Reports by Others

No reports by others were available for review.

3.1.6 City Directories

City directory listings for the Site and adjacent properties were searched by EcoLog ERIS of Toronto, Ontario. Directories were searched in approximate 5-year intervals, dating back to 1905, before the first developed use of the Site. City directory search records are provided in Appendix B.

Based on the directories, the Site (316 Somerset Street East) was first listed as a residential dwelling in 1950. Between 1950 and the most recent directory listing (2011), the Site is listed as occupied by residential tenants. The Site was not listed in City directories between 1905 and 1945.

City directories for surrounding properties did not identify any Potentially Contaminating Activities.

3.2 Environmental Source Information

McIntosh Perry completed a records review to obtain information about the Site pertaining to items of actual and/or potential environmental concern.

3.2.1 Databases Searched

McIntosh Perry obtained information contained in the databases listed below from EcoLog ERIS of Toronto, Ontario. Details about the sources of information and the years included for each database, as well as the pertinent information obtained from these databases are included in the EcoLog ERIS report which is included as Appendix A.

Federal Government Databases:

- Environmental Effects Monitoring
- Environmental Issues Inventory System
- Federal Convictions
- Contaminated Sites on Federal Land
- Fisheries & Oceans Fuel Tanks
- Indian and Northern Affairs Fuel Tanks
- National Analysis of Trends in Emergencies System (NATES)
- National Defence & Canadian Forces Fuel Tanks
- National Defence & Canadian Forces Spills
- National Defence & Canadian Forces Waste Disposal Sites
- National Environmental Emergencies System (NEES)
- National PCB Inventory
- National Pollutant Release Inventory
- Parks Canada Fuel Storage Tanks
- Transport Canada Fuel Storage Tanks

Provincial Government Databases:

- Abandoned Aggregate Inventory
- Aggregate Inventory
- Abandoned Mines Information System
- Certificates of Approval
- Coal Gasification Plants
- Compliance and Convictions
- Drill Holes
- Environmental Registry
- Ontario Regulation 347 Waste Generators Summary
- Mineral Occurrences
- Non-Compliance Reports

- Ontario Oil and Gas Wells
- Ontario Inventory of PCB Storage Sites
- Ministry Orders
- Occurrence Reporting Information System
- Pesticide Register
- Private Fuel Storage Tanks
- Ontario Regulation 347 Waste Receivers Summary
- Record of Site Condition
- Wastewater Discharger Registration Database
- Waste Disposal Sites – MOE CA Inventory
- Waste Disposal Sites – MOE 1991 Historical Approval Inventory
- Water Well Information System

Private Databases:

- Anderson's Waste Disposal Sites
- Automobile Wrecking and Supplies
- Commercial Fuel Oil Tanks
- Chemical Register
- ERIS Historical Searches
- Canadian Mine Locations
- Oil and Gas Wells
- Canadian Pulp and Paper
- Retail Fuel Storage Tanks
- Scott's Manufacturing Directory
- Anderson's Storage Tanks

3.2.2 Database Findings Relevant to the Phase One ESA

The databases searched by EcoLog ERIS contained the following information pertaining to the Site:

- Eighteen (18) Boreholes records
- Three (3) Certificates of Approvals
- Five (5) ERIS Historical Searches
- One (1) Ontario Regulation 347 Waste Generator records
- One (1) TSSA Pipeline Incidents
- Three (3) Ontario Spill records

Relevant information from the EcoLog ERIS report is summarized as follows:

Boreholes

Eighteen borehole logs were listed within 250 m of the subject property. No boreholes were recorded on the subject property. Borehole records are summarized in the table below:

Table 1: Borehole Records

Borehole ID	Location relative to site	Completion Depth (m bgs)	Depth to Bedrock (m bgs)
803463	52.2m North Northeast	3.2	0.7
803462	75.7m North	1.5	0.6
803461	102.6m North	3.3	0.8
806981	114.3m Northeast	46	2.1
803512	117.3m East Northeast	3.4	1.9
803509	123.3m Northeast	1.2	N/A
803459	131.3 North Northwest	1.3	N/A
806990	145.4 West Southwest	46	1.4
803515	151.2m East	4.3	N/A
803505	160.4m North Northeast	3.8	2.2
803457	171.1 North Northwest	2.7	1.2
803517	195.5m East Southeast	3.7	N/A
803454	207.3m North Northwest	1.8	N/A
803503	220.2m North	1.9	N/A
803762	229.0m Southwest	2.0	N/A
803759	229.4m West Southwest	5.0	3.4
803764	237.8m Southwest	4.9	2.4
803450	246.9m North Northwest	4.2	2.3

The average completion depth of the boreholes is 7.79m bgs, with bedrock found at an average depth of 1.73m bgs, where encountered. Locations of the boreholes can be found in the Ecolog ERIS report in Appendix A.

Certificates of Approval

Three Certificates of Approval records were found within 250m of the subject site. No records were found for the subject property. Certificates of Approval records are summarized in the table below:

Table 2: Certificate of Approval Records

Certificate Number	Company	Location	Approval Type	Approval Year
7-0260-97	R.M of Ottawa-Carleton	Russell Ave & Somerset St. E.	Municipal Water	1997
3-0345-97	Ottawa City	Russell Ave & Somerset St. E.	Municipal Sewage	1997
3-0602-97	Fernando Martins	165-169 Russell Ave	Municipal Sewage	1997

Historical ERIS Searches

Five ERIS Historical searches were listed within 250 m of the subject property. No searches were found on the subject property. The searches are summarized in the Table below:

Table 3: ERIS Historical Searches

Report Type	Location	Date
Standard Select Report	322 Somerset St.E.	03-May-16
Standard Report	322 Somerset St.E.	2/25/2010
Custom Report	323 Somerset St.E.	11-Dec-13
Custom Report	287 Somerset St.E.	19-Feb-16
Standard Report	45 Blackburn Ave	19-Aug-16

Ontario Regulation 347 Waste Generators

One Ontario Regulation 347 Waste Generators were found within 250 m of the subject property, however no records were found for the Site. Of the ten waste generator records there were only four locations with multiple years of approval. These records are summarized in Table below:

Table 4: Ontario Regulation 347 Waste Generator Records

Company	Address	Waste Description	Approval Years
Manion Plumbing & Heating	330 Templeton St	Oil skimmings & Sludges	2004-2006

Due to its separation distance from the Site and nature of the waste, this record is not considered to represent an APEC to the Site. Locations of all Ontario regulation 347 waste generators can be found in the Ecolog ERIS report in Appendix A.

TSSA Pipeline Incidents

One TSSA pipeline incidents were found within 250m of the subject property, no were found for on the subject property. The Table below summarizes the TSSA Pipeline Incidents:

Table 5: TSSA Pipeline Incident Records

Location	Fuel Type	Incident Description	Date
104 Blackburn Ave.	Natural Gas	½' Pipeline Hit	2015/12/09

Due to the nature of the fuel (gaseous) this record is not considered to represent an APEC to the Site. Locations of the TSSA pipeline incidents can be found in the Ecolog ERIS report in Appendix A.

Ontario Spills

One Ontario Spill record was found for the Site. Two Ontario spill records were found for properties within 250m of the Site. The Table below summarizes the spill records:

Table 6: Ontario Spill Records

Location	Contaminant	Incident	Impacts	Date
316 Somerset Street East	Furnace Oil	Outside furnace oil tank weeping	Environmental impacts noted as not anticipated	10/31/2011
330 Templeton St	Furnace Oil	Leaking underground tank	Environmental impacts noted as not anticipated, soil contamination	7/28/2004
82 Goulburn Ave.	Mineral Oil	Hydro Ottawa transformer oil leak to ground (2L)	Environmental impacts noted as confirmed, soil contamination	8/28/2007

The incident description for the on-Site spill is presented above as it appears in the spill record. It is unclear whether the reported “weeping” refers to the nature of the spill itself or to a potential receptor (possibly weeping tile). The latter is considered unlikely, since weeping tile is generally associated with private on-site sewage systems, and the Site is municipally serviced.

The two off-site spills are not considered to represent APECs for the site due to the separation distance from the Site and nature of the waste.

Locations of the spills can be found in the Ecolog ERIS report in Appendix A.

3.2.3 MOECC Freedom of Information Request

In order to identify any previous environmental reports concerning the Site, an MOECC Freedom of Information (FOI) request was submitted for the Site. On January 16, 2018, MPCE received a response from the MOECC FOI

requests and contained information on the above reported Ontario Spill record for the Site. The FOI confirmed that oil was visible on the ground. No further information on the nature or location of the spill, or any investigation or cleanup activities completed, was available.

A copy of the MOECC correspondence is provided in Appendix C.

3.2.4 TSSA Information Request

An FOI request was also submitted to the Technical Standards and Safety Authority (TSSA). Email correspondence from TSSA indicates that they have no current environmental records pertaining to the Site. A copy of the TSSA correspondence is provided in Appendix C.

4.0 PHYSICAL SETTING

4.1 Aerial Photographs and Satellite Images

Table 7 describes observations about current and historical land use for the Site and surrounding properties that were noted during review of aerial photographs of the area taken between 1928 and 2017, included in Appendix D. Current land uses are included on Figure 4.

Table 7: Current and Historical Land Use from Aerial Photographs and Satellite Images

Date	Roll #	Observations
1928	GeoOttawa	The Site at this time is vacant land. Medium-density residential development is present to the north of the Site. Immediately to the east is more vacant undeveloped land, with occasional buildings further to the east. South of the site is predominantly vacant and undeveloped with a few buildings. Immediately to the west of the site is undeveloped land and Chapel street, with medium-density development beyond. Due to the quality of the air photo it is difficult to determine the uses of the buildings in the area.
1958	GeoOttawa	The site appears to be developed with the present-day single family home and detached garage. The study area around the site is now fully developed, consistent with current conditions.
1965	GeoOttawa	The site and study area remain relatively unchanged since 1958
1991	GeoOttawa	The site and study area remain relatively unchanged since 1965
2007	GeoOttawa	The site and study area remain relatively unchanged since 1991
2017	GeoOttawa	The site and study area remain relatively unchanged since 2007

Based on the aerial photos, no past or current PCAs were identified on the Site or surrounding properties.

4.2 Topography

Elevation at the Site ranges from approximately 59m above sea level (m asl). The topography is generally flat with gentle slope toward the Rideau River (see Figure 5).

4.3 Hydrology

The Site occurs within the Lower Rideau River watersheds, a subwatershed of the Rideau River watershed. The Rideau River is located approximately 385m northeast of the Site, at its closest point. Site drainage consists primarily of sheet flow to catch basins along Somerset Street East, with some infiltration interpreted to occur in areas of permeable ground surface.

4.4 Geology

4.4.1 Surficial Geology

Geological maps of the area classify the overburden at the Site as fine-textured glaciomarine deposits, consisting of silt and clay with minor sand and gravel. (OGS, 2017).

McIntosh Perry conducted a geotechnical investigation on the subject property on January 18, 2018. Two boreholes were completed on Site (Figure 2). Surficial geology observed during the geotechnical investigation consisted primarily of a thin layer of asphalt (hole drilled in driveway) underlain by fill and/or reworked native material consisting of sand and gravel, underlain by silty sand and gravel with shale fragments. No staining or odours were observed.

4.4.2 Bedrock Geology

Geological maps of the area classify the bedrock under the Site as predominantly shale, limestone, dolostone, or siltstone of the Eastview Formation (OGS, 2017). Refusal on inferred bedrock at approximately 1.6 m below ground surface (mbgs) was encountered in the geotechnical boreholes.

4.5 Hydrogeology

The subject property is located within the Lower Rideau River watershed, a subwatershed of the Rideau River watershed. On a local and regional scale, groundwater likely flows west towards the Rideau River. The geotechnical investigation completed by McIntosh Perry identifies only moist material to 1.6 mbgs. The long-term water table at the site is interpreted to be within the bedrock layer, and was not measured as a component of the geotechnical investigation.

4.6 Fill Materials

The Site visit, analysis of the aerial photos, and review of geotechnical borehole logs indicate that fill and/or re-worked native material is present at the Site. However, no large amounts of fill were used on or around the Site, and fill material appears to have been used for fine grading purposes concurrently with site development.

No staining or odours were observed in the fill material, and this material is not considered to represent a significant environmental concern to the Site.

4.7 Water Bodies and Areas of Natural Significance

The closest permanent waterbody is the Rideau River (located 385m northeast of the Site, at closest point).

When completing a Phase One ESA, considerations are made for the following MNRF-maintained areas of natural significance:

- Areas of Natural and Scientific Interest (ANSIs);
- Provincially Significant Wetlands (PSWs); and,
- Wildlife Management Areas (WMAs).

No areas of natural significance were observed within the Study Area.

4.8 Well Records

McIntosh Perry performed a well record search utilizing the EcoLog ERIS Water Well Information System (WWIS) data (based on MOECC GIS data). No records were found within the Study Area.

5.0 INTERVIEWS

McIntosh Perry personnel conducted an interview with Dan Boulanger of TC United, to obtain information about the subject property pertaining to items of actual and/or potential environmental concern. Information collected during this interview was used to corroborate data from other sources, and is presented in Appendix E.

The information obtained from the interview is summarized as follows:

Potential Environmental Concerns	Interview Comments
Accidents/Spills	Not aware of any
Previous Use of Site	Residential
Adjacent Properties	Residential
Fuel Handling/Storage	Oil Tank
Maintenance/Operational Areas	Home owner
Hazardous Materials Storage	Oil tank in rear yard
Salt Storage	No
Fuel Storage Tanks	Rear yard oil tank
Odours	No
Potable Water	Yes
Septic and Wastewater Discharges	To city services
Pesticides	No
Mould	No
Heating and Cooling Systems	Oil fueled boiler system
Major Mechanical Equipment	Oil boiler
Waste Oils, Solvents, Batteries	No
PCBs	No
Asbestos	Unknown
Lead Paint	Unknown
ODS	No
Electromagnetic Radiation	No
UFFI	No
Mercury	No
Radon Gas	No
Soil and Groundwater Conditions	Good
Wells	No
Waste Disposal and Recycling	City collection
Fill Material	Natural, organic
Other	Floor drain in basement

Note that statements made by those interviewed were not made categorically and are limited to personal knowledge of, and experience with, the subject property. The significance of environmental concerns that have been identified by other methods was not reduced based on the interview statements.

6.0 SITE RECONNAISSANCE

The objectives of the site reconnaissance were as follows:

- To identify potential environmental concerns associated with current and past uses of the Site;
- To identify Potentially Contaminating Activities (PCAs) on, in, or under the Site;
- To identify, as practical, current and past uses, activities, and PCAs in the vicinity of the Site; and
- To identify details of potential contaminant pathways on, in, or under the Site and potential environmental concerns and contaminants of potential concern.

McIntosh Perry had open and ready access to all exterior areas of the Site during the site visit.

6.1 General Requirements

McIntosh Perry conducted the Site reconnaissance on January 9, 2018 (from approximately 11:50am to 12:20am). Bradley Sutherland of McIntosh Perry inspected all areas of the Site, and observed other properties in the Study Area from publically accessible locations.

6.1.1 *Qualifications of the Assessors*

Field assessment for this report was undertaken by Bradley Sutherland, B.Sc. of McIntosh Perry. Bradley has successfully completed numerous Phase One ESAs for various clients in Ontario. Reporting was completed by Bradley Sutherland, B.Sc., and Daniel Arnott, P.Eng. Daniel is an Ontario licensed Professional Engineer and a Qualified Person (QP) under O.Reg. 153/04, as amended, and has completed numerous of Phase One and Two ESAs across Ontario.

McIntosh Perry is licensed to practice engineering and geoscience in the Province of Ontario. McIntosh Perry holds Certificates of Authorization with the Professional Engineers of Ontario (PEO) and the Association of Professional Geoscientists of Ontario (APGO) and is a full member of the Consulting Engineers of Ontario (CEO).

6.1.2 *Weather Conditions at Time of Inspection*

Weather conditions at the time of the Site visit were overcast and approximately -6 degrees Celsius, with no wind. The site was snow-covered at the time of the inspection.

6.1.3 *Property Occupancy/Use Status at Time of Inspection*

The Site was used for residential purposes until recently. The residence was unoccupied at the time of inspection with all power and heat turned off. Land use in the vicinity is shown on Figure 4.

6.1.4 *Site Photographs*

Photographs of the Site are included in Appendix F. A brief description is included with each photograph, including location and orientation where applicable.

6.2 Description of Investigations

The Phase One component of the current investigation is a preliminary environmental screening that aims to provide a qualitative assessment of the environmental condition of the Site based on a review of available information pertaining to the Site, observations made during a Site visit, and information from interviews with people who have knowledge of the Site and its history.

The Phase One portion of the current investigation includes the following components:

- A review of available background information;
- Interviews with person(s) knowledgeable about the site;
- Site reconnaissance; and
- Freedom of information requests (Ministry of the Environment and Climate Change (MOECC) and the Technical Standards and Safety Authority (TSSA))

6.2.1 Phase One Property

The Site is currently vacant and was used for residential purposes until recently. The Site is occupied by a single-family residential building, with a detached garage. The Site is zoned as Residential Fourth Density, per section 161-162 the City of Ottawa Zoning By-law.

6.2.2 Phase One Study Area

The Study Area consists of the Site and all properties within 250 m of the Site. The study area primarily consists of many residential dwellings, low density commercial developments, and portions of Sandy Hill community center.

6.3 Specific Observations at the Phase One Property

6.3.1 Structures and Other Improvements

On-site structures consist of one residential single family home with a detached garage located behind the residence.

6.3.2 Below Ground Structures

No below ground structures were observed at the Site. However there was extensive snow cover

6.3.3 Storage Tanks

There is a typical residential furnace oil tank located directly behind the residence. The tank appeared to be empty at the time of the inspection. No tag or other documentation were observed on the tank.

6.3.4 Hazardous Materials

Possible lead paint and lead pipes throughout the house. Potentially asbestos-containing pipe insulation was also observed.

6.3.5 Potable and Non-Potable Water Sources

No on-site sources of water (wells or otherwise) were observed at the Site. The property is municipally serviced.

6.3.6 Underground Service Trenches

Service trenches for water, sewer, and/or telephone services are presumed to be present at the Site. No Site-specific concerns regarding service trenches were identified.

6.3.7 Exit and Entry Points

All exit and entry points to the Site were inspected. No concerns were identified.

6.3.8 Existing and Former Heating Systems

All power and heat was turned off to the building. An oil-fired boiler connected to steam radiators throughout the house was identified in the basement.

6.3.9 Cooling Systems

Two window-mounted air conditioning units were observed.

6.3.10 Drains, Pits, and Sumps

A floor drain was observed in the basement. No pits or sumps were observed at the Site.

6.3.11 Unidentified Substances

No unidentified substances were observed at the Site.

6.3.12 Stains and/or Corrosion Near Drains, Pits, and Sumps

No stains were observed around the basement floor drain. However the area was carpeted. A stain was observed a short distance away from the floor drain, on the carpet. No odour was observed.

Black staining was observed in the immediate vicinity of most radiators in the house. This staining is interpreted to be associated with the leaking of water from the radiators following pipes bursting.

6.3.13 Well Details

No wells were observed at the Site.

6.3.14 Details of Sewage Works

The Site is municipally serviced.

6.3.15 Ground Surface Details

Ground surface details could not be observed due to snow cover.

6.3.16 Current and Former Railway Lines

The Site inspection did not indicate any presence of current or former rail lines at the Site or on adjacent properties.

6.3.17 Staining to Soil, Vegetation, or Pavement

No significant staining was observed at the exterior of the Site. Snow cover prevented visual inspection for staining.

6.3.18 Stressed Vegetation

The presence of stressed vegetation could not be determined due to snow cover.

6.3.19 Fill and Debris

No evidence of fill placement was observed on-site; however, the ground surface was snow-covered. No debris was observed.

6.3.20 Mould

No mould or mould-like substances were observed.

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

The above ground storage tank identified during McIntosh Perry's site visit on January 9, 2018, and the associated Ontario Spill record, are considered to represent a PCA for the Site.

While not a PCA under the definition of O.Reg. 153/04 as amended, most pipes in the house had burst from frozen water. In warmer weather, the presence of water associated with burst pipes could contribute to substantial mould growth.

6.4 Surrounding Properties

Surrounding land use in the vicinity of the Site generally consisted of the following:

- North – residential and commercial (low density)
- East – residential and commercial (low density)
- South – residential
- West – residential, community

7.0 REVIEW AND EVALUATION OF INFORMATION

The following sections provide a review, and evaluation and an interpretation of the information from the records review, interviews and site reconnaissance. The city directory search is included in Appendix B – Additional Information.

7.1 Current and Past Uses of Phase One Property

The following table summarizes the land use history of the subject Site:

Table 8: Current and Past Uses of the Phase One ESA Property

Year	Name of Owner	Description of Property Use	Property Use	Other Observations from Aerial Photographs, Fire Insurance Plans, etc.
1905-1950	Not identified	Vacant	Vacant	First available air photo (1928), shows the Site as vacant. City directories from 1905 to 1945 do not have listings for the Site.
1950-2017	Not identified	Residential	Residential	First record of residence was from the city directory in 1950. FIPs from 1956 and air photos from 1958 show the Site in its current configuration, with minimal changes in other air photos up to 2017. Directories indicate one or more tenants at the Site between 1950 and 2011.

7.2 Potentially Contaminating Activities

One PCA was identified at, on, or under the Site.

- Ontario Spill record – Furnace Oil tank in back yard – unknown amount of fuel

Based on the nature of this record and its location on-Site, this PCA is considered to result in an APEC at the Site.

The following offsite PCAs were identified in the Phase One ESA Study Area:

- 330 Templeton Street – Ontario Spill Record (underground fuel storage tank leak)
- 330 Templeton Street – O.Reg 347 waste generator (oil skimmings and sludges)
- 82 Goulburn Avenue – Ontario Spill record (2 L transformer oil leak)

Based on the nature of these records and their separation distance from the Site these off-site PCAs are not considered to result in APECs at the Site.

The PCAs listed above are on Figure 6.

7.3 Areas of Potential Environmental Concern (APEC)

One Area of Potential Environmental Concern (APEC) was identified at the Site:

- Potential soil impacts resulting from reported spill from furnace oil tank located at the rear of the house.

7.4 Phase One Conceptual Site Model

The Phase One Conceptual Site Model is based on information presented in the following Figures:

- Figure 2 shows onsite structures and those on properties immediately surrounding the Site.
- Figure 3 shows all other buildings and structures in the Phase One ESA study area
- Figure 5 shows drainage features in the local area. There are no significant water bodies in the Phase One ESA study area.
- Figure 3 shows the names of all roads in the Phase One ESA study area.
- Figure 4 shows land use of properties adjacent to the subject property.
- Figure 6 shows areas where potentially contaminating activities (PCAs) have occurred and areas of potential environmental concern (APEC).

There are no areas of natural significance in the Phase One ESA study area.

The potential for underground utilities to affect contaminant distribution and transport is considered to be minimal.

Available topographic, surface drainage and hydrogeological information suggests that the direction of shallow groundwater flow is to the east.

8.0 CONCLUSIONS

One Potentially Contaminating Activity (PCA) was identified at, on, or under the Site.

- Ontario Spill record – Furnace Oil tank in back yard – unknown amount of fuel

Based on the nature of this record and its location on-Site, this PCA is considered to result in an APEC at the Site.

The following offsite PCAs were identified in the Phase One ESA Study Area:

- 330 Templeton Street – Ontario Spill Record (underground fuel storage tank leak)
- 330 Templeton Street – O.Reg 347 waste generator (oil skimmings and sludges)
- 82 Goulburn Avenue – Ontario Spill record (2 L transformer oil leak)

Due to on-site observations, there is the potential for hazardous materials, including lead paint, lead piping, and potentially asbestos-containing pipe insulation, to be present at the Site. It is recommended that a DSS be completed prior to demolition or work within the dwelling.

8.1 Is a Phase 2 ESA Required?

Based on the presence of the on-site APEC associated with the spill record from the fuel oil tank, and in the absence of any further information on cleanup or environmental impacts, ***it is recommended that a Phase 2 ESA be completed to determine the presence of subsurface impacts associated with the spill.***

9.0 LIMITATIONS

This report has been prepared, and the work referred to in this report has been undertaken by, McIntosh Perry Consulting Engineers Ltd. for TC United (TCU). It is intended for the sole and exclusive use of TCU. The report may not be relied upon by any other person or entity without the express written consent of McIntosh Perry Consulting Engineers Ltd. (in the form of a Reliance Letter).

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Some of the information presented in this report was provided through maps, air photographs, and environmental reports. While attempts were made, whenever possible, to obtain a minimum of two confirmatory sources of information, McIntosh Perry Consulting Engineers Ltd., has, in certain instances, been required to assume that the information provided is accurate.

The conclusions presented represent the best professional judgment of the assessor based on current environmental standards and on the site conditions observed during the site inspection on January 09, 2018. It is also noted that only the common areas of the residences and machine rooms were inspected due to occupancy. External areas of this property were observed from the yard of 316 Somerset Street East. and other publically accessible locations. Snow cover was abundant in the area which can conceal possible observations and McIntosh Perry Consulting Engineers Ltd is not responsible for areas of environmental concern obscured by snow cover. Due to the nature of the investigation and the limited data available, the assessor cannot warrant against undiscovered environmental liabilities.

Should additional information become available, McIntosh Perry Consulting Engineers Ltd. requests that this information be brought to our attention so that we may re-assess the conclusions presented herein.

We trust that this information is satisfactory for your present requirements. Should you have any questions or require additional information, please do not hesitate to contact the undersigned.

Respectfully submitted,

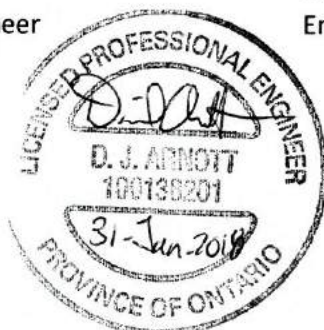
McIntosh Perry Consulting Engineers Ltd.



Daniel J. Arnott, P.Eng.
Geo-Environmental Engineer



Bradley Sutherland, B.Sc
Environmental Scientist



h:\01 project - proposals\2017 jobs\cp\0cp-17-0637 tcu_mixed use building_316 somerset street\phase one esa\09 report\0cp-17-0637_phase one esa_316 somerset.draft bs dja.docx

10.0 REFERENCES

Canadian Standards Association (CSA), Z768-01: Phase I Environmental Site Assessment, CSA International, Toronto, 2001 (Updated 2003, Reaffirmed 2012).

EcoLog ERIS, 2017. Site-Specific Search Report Results.

Natural Resources Canada (NRCAN), 2011. Geobase online mapping tool: Hydro Network GIS Data accessed through <<http://geobase.ca/geobase/en/viewer.jsp?group=nhn>>.

Ontario Geologic Survey (OGS), 2017 GIS Data for bedrock and surficial geology stratigraphy.

Ontario Ministry of Environment and Climate Change (MOECC), Ontario Regulation (O.Reg.) 153/04; Records of Site Condition – Part XV.1 of the Act (i.e. The Environmental Protection Act), as amended.

Ontario Geological Survey (OGS), 2017 – Google EarthTM (website: http://www.mndmf.gov.on.ca/mines/ogs_earth_e.asp).

PHASE ONE ENVIRONMENTAL SITE ASSESSMENT 316 SOMERSET STREET EAST, OTTAWA, ON



FIGURES

McINTOSH PERRY



LEGEND

- Site Location
- Watercourse
- Local Road
- Waterbody
- Major Road

REFERENCE

GIS data provided by the Ontario Ministry of Natural Resources and Forestry, 2017.

CLIENT:		TC UNITED	
PROJECT:		PHASE ONE ESA 316 SOMERSET ST. E	
TITLE:		SITE LOCATION	
McINTOSH PERRY <small>115 Walgreen Road, RR3, Carp, ON K0A1L0 Tel: 613-836-2184 Fax: 613-836-3742 www.mcintoshperry.com</small>		PROJECT NO: CP-17-0637	FIGURE:
		Date	Dec., 20, 2017
		GIS	JD
		Checked By	MC
			1



SOMERSET STREET EAST



BH18-2

BH18-1

LEGEND

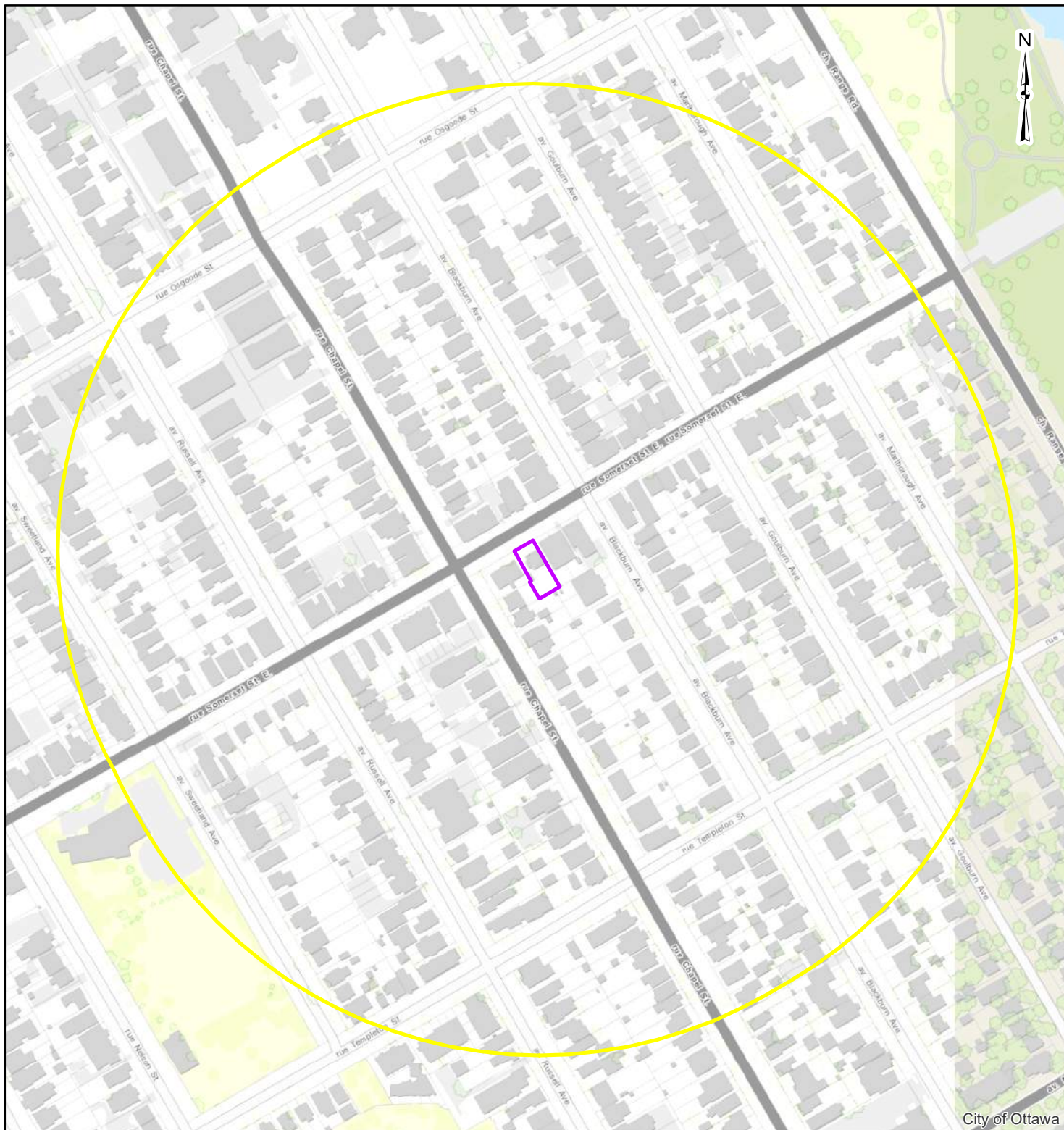
-  Approximate Site Boundary
-  Borehole Location

REFERENCE

GIS data provided by the Ontario Ministry of Natural Resources and Forestry, 2018.
Imagery provided by the City of Ottawa, 2015.



CLIENT:		TC UNITED	
PROJECT:		PHASE ONE ESA 316 SOMERSET ST. E	
TITLE:		SITE LAYOUT	
McINTOSH PERRY <small>115 Walgreen Road, RR3, Carp, ON K0A1L0 Tel: 613-836-2184 Fax: 613-836-3742 www.mcintoshperry.com</small>		PROJECT NO:CP-17-0637	FIGURE:
		Date	Jan., 31, 2018
		GIS	JD
		Checked By	MC
			2

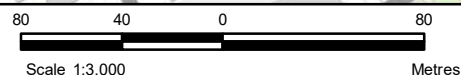


LEGEND

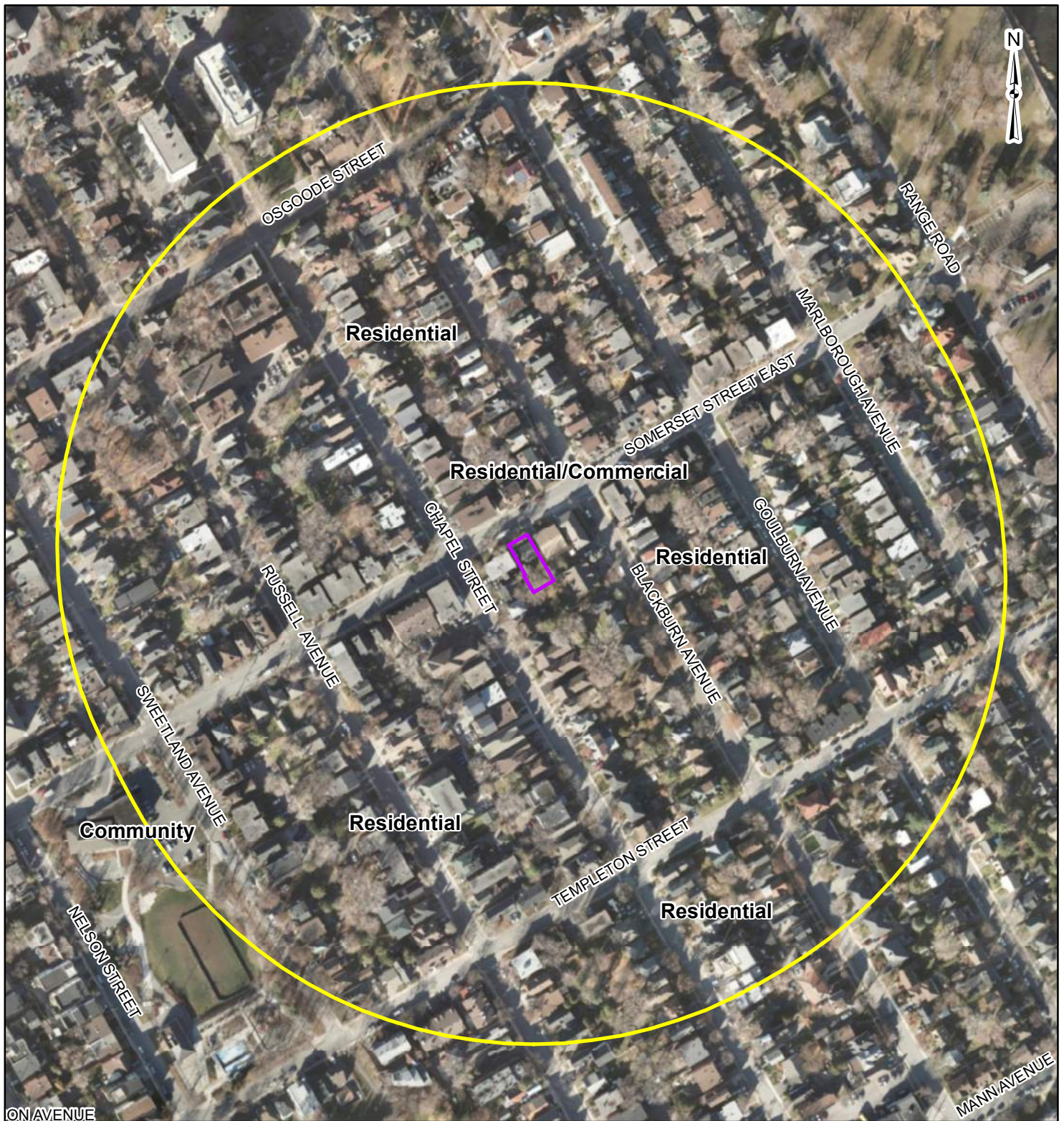
- Approximate Site Boundary
- 250m Buffer

REFERENCE

GIS data provided by the Ontario Ministry of Natural Resources and Forestry, 2017.
 Basemap provided by the City of Ottawa, 2017.



CLIENT:		TC UNITED	
PROJECT:		PHASE ONE ESA 316 SOMERSET ST. E	
TITLE:		STUDY AREA	
McINTOSH PERRY <small>115 Walgreen Road, RR3, Carp, ON K0A1L0 Tel: 613-836-2184 Fax: 613-836-3742 www.mcintoshperry.com</small>		PROJECT NO: CP-17-0637	FIGURE:
		Date	Dec., 20, 2017
		GIS	JD
		Checked By	MC
		3	

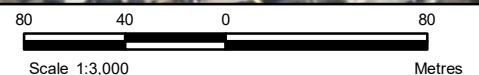


LEGEND

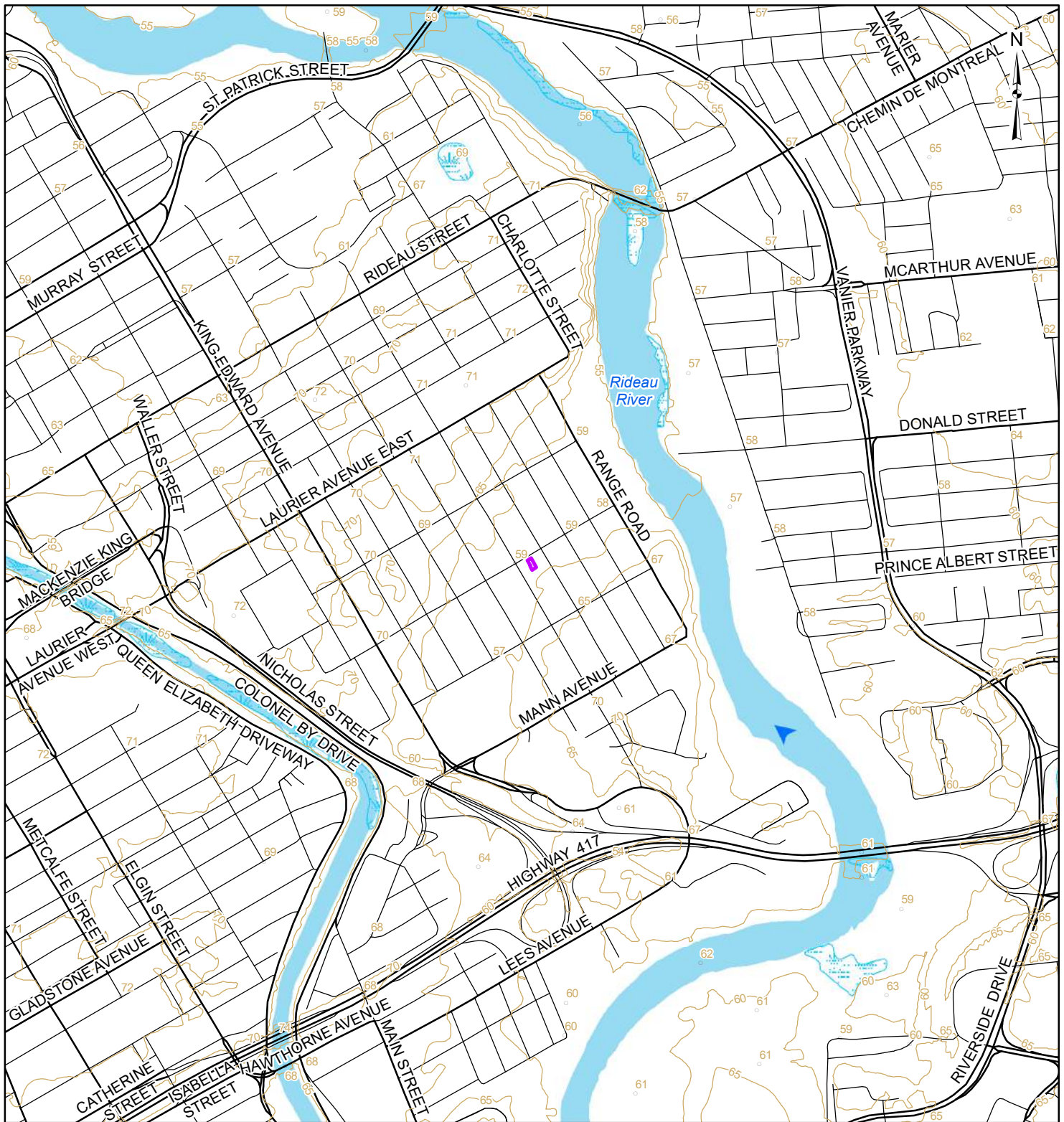
- Approximate Site Boundary
- 250m Buffer

REFERENCE

GIS data provided by the Ontario Ministry of Natural Resources and Forestry, 2018.
Imagery provided by the City of Ottawa, 2015.



CLIENT:		TC UNITED	
PROJECT:		PHASE ONE ESA 316 SOMERSET ST. E	
TITLE:		SURROUNDING LAND USE	
McINTOSH PERRY <small>115 Walgreen Road, RR3, Carp, ON K0A1L0 Tel: 613-836-2184 Fax: 613-836-3742 www.mcintoshperry.com</small>		PROJECT NO: CP-17-0637	FIGURE:
		Date	Jan., 26, 2018
		GIS	JD
		Checked By	MC
			4

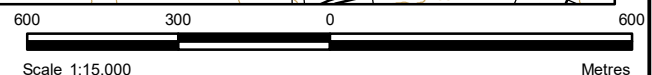


LEGEND

- Site Boundary
- ➔ Watercourse
- Spot Height (masl)
- Waterbody
- Contour (masl)
- Unevaluated Wetland
- Local Road
- Major Road

REFERENCE

GIS data provided by the Ontario Ministry of Natural Resources and Forestry, 2018.



Scale 1:15,000

Metres

CLIENT:

TC UNITED

PROJECT:

**PHASE ONE ESA
316 SOMERSET ST. E**

TITLE:

DRAINAGE AND TOPOGRAPHY

McINTOSH PERRY

115 Walgreen Road, RR3, Carp, ON K0A1L0
Tel: 613-836-2184 Fax: 613-836-3742
www.mcintoshperry.com

PROJECT NO: CP-17-0637

FIGURE:

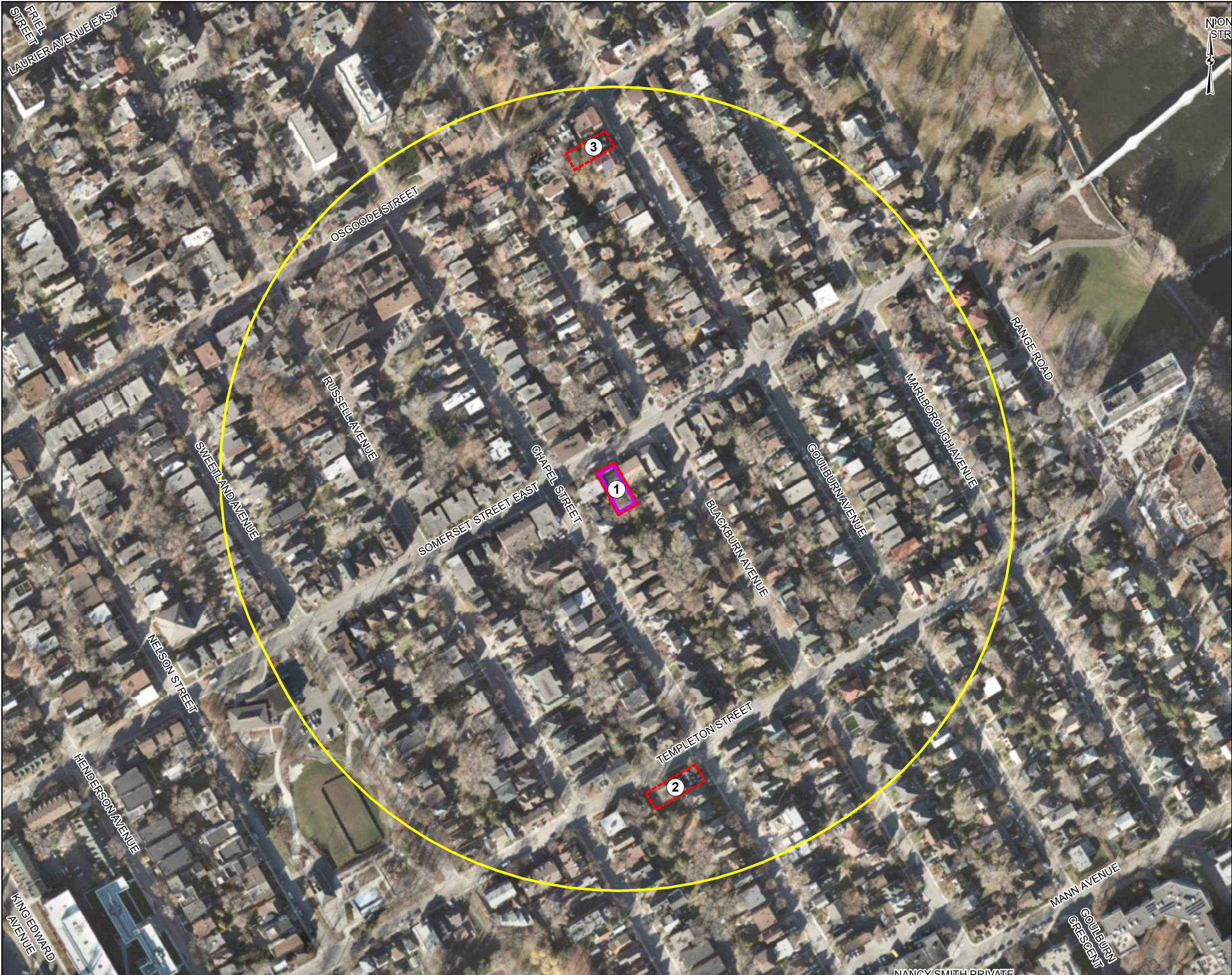
Date Jan., 23, 2018

GIS JD

Checked By MC

5

H:\01 Project - Proposals\2017 Jobs\CP\OCP-17-0637 TCU_Mixed Use Building_316 Somerset Street\Phase One ESA\05 GIS\mxd\OCP-17-0637_06_PCAs\316Somerset.mxd



LEGEND

Site Boundary

250m Buffer

PCA

1

On-Site - 316 Somerset St. East

PCA

- Ontario Spill Record (see table 6 for details)

2

330 Templeton St.

PCAs

- Ontario Spill Record (see table 6 for details)

- O. Reg 347 Waste Generator (see table 4 for details)

3

82 Goulbourn Ave.

PCA

- Ontario Spill Record (see table 6 for details)

REFERENCE

GIS data provided by the Ontario Ministry of Natural Resources and Forestry, 2018.

03060120

Scale 1:2,500Metres

CLIENT:

TC UNITED

PROJECT:

PHASE ONE ESA
316 SOMERSET ST. E

TITLE:

POTENTIALLY CONTAMINATING ACTIVITIES

McINTOSH PERRY

115 Walgreen Road, RR3, Carp, ON K0A1L0
Tel: 613-836-2184 Fax: 613-836-3742
www.mcintoshperry.com

PROJECT NO: CP-17-0637

Date

Jan., 26, 2018

GIS

JD

Checked By

MC

FIGURE:

6

PHASE ONE ENVIRONMENTAL SITE ASSESSMENT 316 SOMERSET STREET EAST, OTTAWA, ON



APPENDIX A – ECOLOG ERIS REPORT



DATABASE REPORT

Project Property: *Phase 1 ESA - 316 Somerset
316 Somerset
Ottawa ON
CP-17-0637*

Project No: *CP-17-0637*

Report Type: *Standard Report*

Order No: *20171214066*

Requested by: *McIntosh Perry Consulting Engineers*

Date Completed: *December 20, 2017*

**Environmental Risk
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Executive Summary

Property Information:

Project Property: *Phase 1 ESA - 316 Somerset
316 Somerset Ottawa ON*

Project No: *CP-17-0637*

Coordinates:

Latitude: *45.424118*
Longitude: *-75.674724*
UTM Northing: *5,030,287.72*
UTM Easting: *447,215.23*
UTM Zone: *UTM Zone 18T*

Elevation: *195 FT
59.36 M*

Order Information:

Order No: *20171214066*
Date Requested: *December 14, 2017*
Requested by: *McIntosh Perry Consulting Engineers*
Report Type: *Standard Report*

Historical/Products:

City Directory Search *Subject Site plus 5 Adjacent Properties*
Insurance Products *Fire Insurance Maps/Inspection Reports/Site Specific Plans*

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Within 0.25 km	Total
AAGR	<i>Abandoned Aggregate Inventory</i>	Y	0	0	0
AGR	<i>Aggregate Inventory</i>	Y	0	0	0
AMIS	<i>Abandoned Mine Information System</i>	Y	0	0	0
ANDR	<i>Anderson's Waste Disposal Sites</i>	Y	0	0	0
AUWR	<i>Automobile Wrecking & Supplies</i>	Y	0	0	0
BORE	<i>Borehole</i>	Y	0	18	18
CA	<i>Certificates of Approval</i>	Y	0	3	3
CFOT	<i>Commercial Fuel Oil Tanks</i>	Y	0	0	0
CHEM	<i>Chemical Register</i>	Y	0	0	0
CNG	<i>Compressed Natural Gas Stations</i>	Y	0	0	0
COAL	<i>Inventory of Coal Gasification Plants and Coal Tar Sites</i>	Y	0	0	0
CONV	<i>Compliance and Convictions</i>	Y	0	0	0
CPU	<i>Certificates of Property Use</i>	Y	0	0	0
DRL	<i>Drill Hole Database</i>	Y	0	0	0
EASR	<i>Environmental Activity and Sector Registry</i>	Y	0	0	0
EBR	<i>Environmental Registry</i>	Y	0	0	0
ECA	<i>Environmental Compliance Approval</i>	Y	0	0	0
EEM	<i>Environmental Effects Monitoring</i>	Y	0	0	0
EHS	<i>ERIS Historical Searches</i>	Y	0	5	5
EIIS	<i>Environmental Issues Inventory System</i>	Y	0	0	0
EMHE	<i>Emergency Management Historical Event</i>	Y	0	0	0
EXP	<i>List of TSSA Expired Facilities</i>	Y	0	0	0
FCON	<i>Federal Convictions</i>	Y	0	0	0
FCS	<i>Contaminated Sites on Federal Land</i>	Y	0	0	0
FOFT	<i>Fisheries & Oceans Fuel Tanks</i>	Y	0	0	0
FST	<i>Fuel Storage Tank</i>	Y	0	0	0
FSTH	<i>Fuel Storage Tank - Historic</i>	Y	0	0	0
GEN	<i>Ontario Regulation 347 Waste Generators Summary</i>	Y	0	1	1
GHG	<i>Greenhouse Gas Emissions from Large Facilities</i>	Y	0	0	0
HINC	<i>TSSA Historic Incidents</i>	Y	0	0	0
IAFT	<i>Indian & Northern Affairs Fuel Tanks</i>	Y	0	0	0
INC	<i>TSSA Incidents</i>	Y	0	0	0
LIMO	<i>Landfill Inventory Management Ontario</i>	Y	0	0	0
MINE	<i>Canadian Mine Locations</i>	Y	0	0	0
MNR	<i>Mineral Occurrences</i>	Y	0	0	0
NATE	<i>National Analysis of Trends in Emergencies System (NATES)</i>	Y	0	0	0

<i>Database</i>	<i>Name</i>	<i>Searched</i>	<i>Project Property</i>	<i>Within 0.25 km</i>	<i>Total</i>
NCPL	<i>Non-Compliance Reports</i>	Y	0	0	0
NDFT	<i>National Defense & Canadian Forces Fuel Tanks</i>	Y	0	0	0
NDSP	<i>National Defense & Canadian Forces Spills</i>	Y	0	0	0
NDWD	<i>National Defence & Canadian Forces Waste Disposal Sites</i>	Y	0	0	0
NEBI	<i>National Energy Board Pipeline Incidents</i>	Y	0	0	0
NEBW	<i>National Energy Board Wells</i>	Y	0	0	0
NEES	<i>National Environmental Emergencies System (NEES)</i>	Y	0	0	0
NPCB	<i>National PCB Inventory</i>	Y	0	0	0
NPRI	<i>National Pollutant Release Inventory</i>	Y	0	0	0
OGW	<i>Oil and Gas Wells</i>	Y	0	0	0
OOGW	<i>Ontario Oil and Gas Wells</i>	Y	0	0	0
OPCB	<i>Inventory of PCB Storage Sites</i>	Y	0	0	0
ORD	<i>Orders</i>	Y	0	0	0
PAP	<i>Canadian Pulp and Paper</i>	Y	0	0	0
PCFT	<i>Parks Canada Fuel Storage Tanks</i>	Y	0	0	0
PES	<i>Pesticide Register</i>	Y	0	0	0
PINC	<i>TSSA Pipeline Incidents</i>	Y	0	1	1
PRT	<i>Private and Retail Fuel Storage Tanks</i>	Y	0	0	0
PTTW	<i>Permit to Take Water</i>	Y	0	0	0
REC	<i>Ontario Regulation 347 Waste Receivers Summary</i>	Y	0	0	0
RSC	<i>Record of Site Condition</i>	Y	0	0	0
RST	<i>Retail Fuel Storage Tanks</i>	Y	0	0	0
SCT	<i>Scott's Manufacturing Directory</i>	Y	0	0	0
SPL	<i>Ontario Spills</i>	Y	0	3	3
SRDS	<i>Wastewater Discharger Registration Database</i>	Y	0	0	0
TANK	<i>Anderson's Storage Tanks</i>	Y	0	0	0
TCFT	<i>Transport Canada Fuel Storage Tanks</i>	Y	0	0	0
VAR	<i>TSSA Variances for Abandonment of Underground Storage Tanks</i>	Y	0	0	0
WDS	<i>Waste Disposal Sites - MOE CA Inventory</i>	Y	0	0	0
WDSH	<i>Waste Disposal Sites - MOE 1991 Historical Approval Inventory</i>	Y	0	0	0
WWIS	<i>Water Well Information System</i>	Y	0	0	0
		Total:	0	31	31

Executive Summary: Site Report Summary - Project Property

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist (m)</i>	<i>Elev diff (m)</i>	<i>Page Number</i>
--------------------	-----------	--------------------------	----------------	---------------------	--------------------------	------------------------

No records found in the selected databases for the project property.

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
1	SPL		316 Somerset Avenue, East Ottawa ON	SW/1.7	0.00	15
2	PINC		104 BLACKBURN AVE, OTTAWA ON	ESE/27.9	1.49	15
3	EHS		322 Somerset St E Ottawa ON K1N6W3	ENE/29.0	0.21	15
4	EHS		322 Somerset street e ottawa ON K1N 6W3	NE/33.0	-0.13	16
5	BORE		ON	NNE/52.2	-1.49	16
6	BORE		ON	N/75.7	-2.30	16
7	EHS		323 Somerset St E Ottawa ON K1N6W4	NE/85.7	-2.71	17
8	BORE		ON	N/102.6	0.06	17
9	BORE		ON	NE/114.3	-1.88	18
10	BORE		ON	ENE/117.3	0.60	18
11	BORE		ON	NE/123.3	-1.88	19
12	BORE		ON	NNW/131.3	0.35	19
13	CA	R.M. OF OTTAWA-CARLETON	RUSSELL AVE/SOMERSET ST.E. OTTAWA CITY ON	WSW/135.0	-1.49	20
13	CA	OTTAWA CITY	RUSSELL AVE/SOMERSET ST.E. OTTAWA CITY ON	WSW/135.0	-1.49	20
14	BORE		ON	WSW/145.4	-1.21	20
15	BORE		ON	E/151.2	2.46	21
16	CA	FERNANDO MARTINS	165-169 RUSSELL AVENUE (SWM) OTTAWA CITY ON K1N 7X3	SSW/151.8	0.51	22
17	EHS		287 Somerset St E Ottawa ON K1N6V7	WSW/152.3	-1.21	22
18	BORE		ON	NNE/160.4	0.21	22
19	BORE		ON	NNW/171.1	2.79	23
20	BORE		ON	ESE/195.5	5.75	23
21	EHS		45 Blackburn Ave Ottawa ON K1N8A4	N/196.5	3.33	24
22	GEN	MANION PLUMBING & HEATING	330 TEMPLETON OTTAWA ON K1N 6X6	S/205.5	6.56	24

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist (m)</i>	<i>Elev Diff (m)</i>	<i>Page Number</i>
22	SPL	S.21	330 Templeton St. Ottawa ON K1N 6X6	S/205.5	6.56	24
23	BORE		ON	NNW/207.3	5.38	24
24	BORE		ON	N/220.2	2.12	25
25	SPL		82 Goulburn Avenue Ottawa ON K1N 8E1	N/222.3	3.82	25
26	BORE		ON	SW/229.0	-1.49	26
27	BORE		ON	WSW/229.4	0.01	26
28	BORE		ON	SW/237.8	-1.49	27
29	BORE		ON	NNW/246.9	7.16	27

Executive Summary: Summary By Data Source

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2014 has found that there are 18 BORE site(s) within approximately 0.25 kilometers of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	ON	N	102.57	<u>8</u>
	ON	ENE	117.26	<u>10</u>
	ON	NNW	131.33	<u>12</u>
	ON	E	151.15	<u>15</u>
	ON	NNE	160.36	<u>18</u>
	ON	NNW	171.08	<u>19</u>
	ON	ESE	195.48	<u>20</u>
	ON	NNW	207.34	<u>23</u>
	ON	N	220.17	<u>24</u>
	ON	WSW	229.41	<u>27</u>
	ON	NNW	246.88	<u>29</u>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	ON	NNE	52.25	<u>5</u>
	ON	N	75.73	<u>6</u>
	ON	NE	114.34	<u>9</u>
	ON	NE	123.32	<u>11</u>
	ON	WSW	145.43	<u>14</u>
	ON	SW	229.03	<u>26</u>

CA - Certificates of Approval

A search of the CA database, dated 1985-Oct 30, 2011* has found that there are 3 CA site(s) within approximately 0.25 kilometers of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
FERNANDO MARTINS	165-169 RUSSELL AVENUE (SWM) OTTAWA CITY ON K1N 7X3	SSW	151.81	16

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
R.M. OF OTTAWA-CARLETON	RUSSELL AVE/SOMERSET ST.E. OTTAWA CITY ON	WSW	135.00	13
OTTAWA CITY	RUSSELL AVE/SOMERSET ST.E. OTTAWA CITY ON	WSW	135.00	13

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Aug 2016 has found that there are 5 EHS site(s) within approximately 0.25 kilometers of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	322 Somerset St E Ottawa ON K1N6W3	ENE	28.99	3
	45 Blackburn Ave Ottawa ON K1N8A4	N	196.48	21

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	322 Somerset street e ottawa ON K1N 6W3	NE	33.02	4
	323 Somerset St E Ottawa ON K1N6W4	NE	85.66	7
	287 Somerset St E Ottawa ON K1N6V7	WSW	152.28	17

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Jun 2017 has found that there are 1 GEN site(s) within approximately 0.25 kilometers of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
MANION PLUMBING & HEATING	330 TEMPLETON OTTAWA ON K1N 6X6	S	205.54	22

PINC - TSSA Pipeline Incidents

A search of the PINC database, dated Feb 28, 2017 has found that there are 1 PINC site(s) within approximately 0.25 kilometers of the

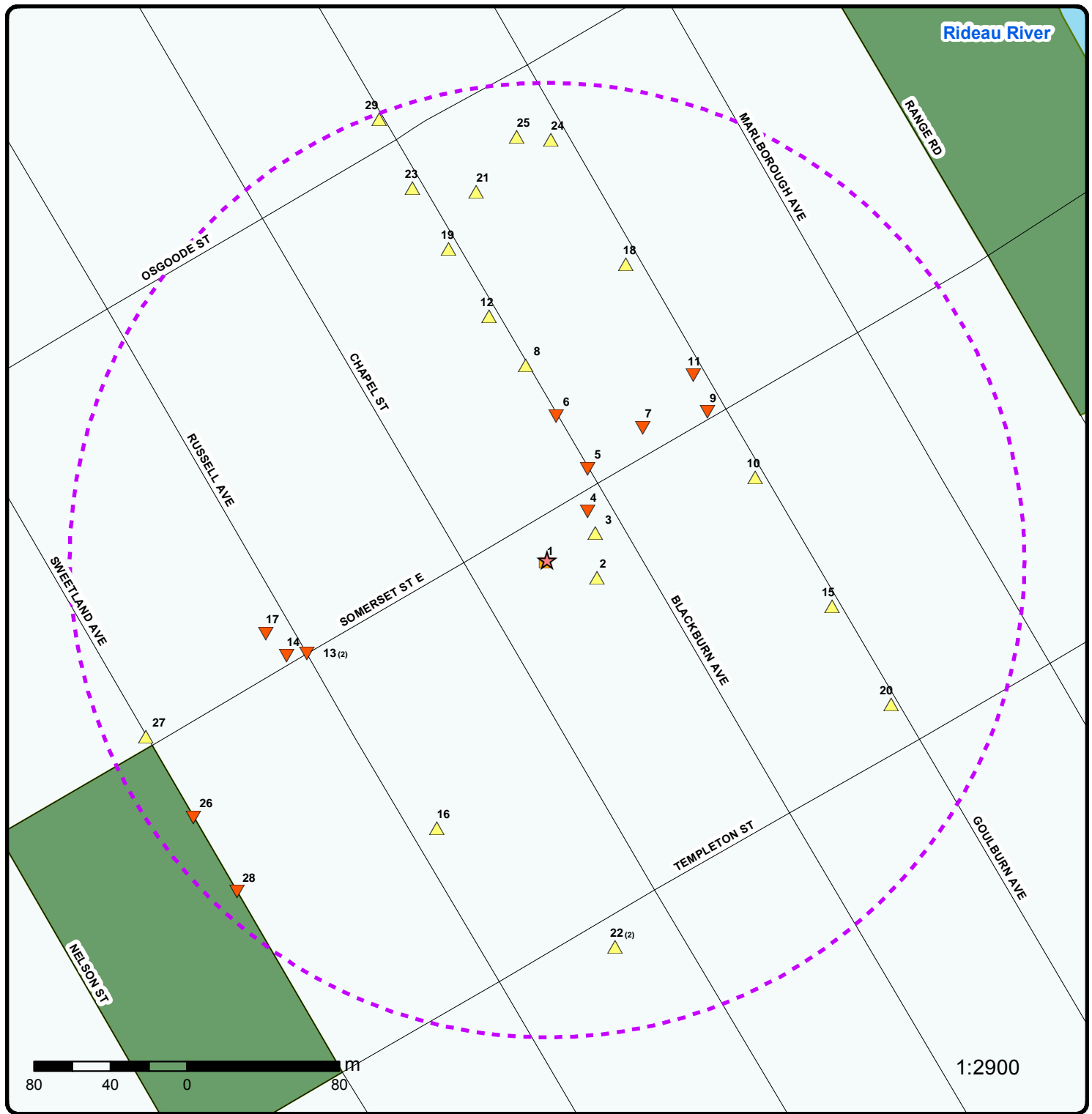
project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	104 BLACKBURN AVE, OTTAWA ON	ESE	27.95	<u>2</u>

SPL - Ontario Spills

A search of the SPL database, dated 1988-Jun 2017 has found that there are 3 SPL site(s) within approximately 0.25 kilometers of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
S.21	316 Somerset Avenue, East Ottawa ON	SW	1.72	<u>1</u>
	330 Templeton St. Ottawa ON K1N 6X6	S	205.54	<u>22</u>
	82 Goulburn Avenue Ottawa ON K1N 8E1	N	222.33	<u>25</u>



Map : 0.25 Kilometer Radius

Order No: 20171214066

Address: 316 Somerset, Ottawa, ON

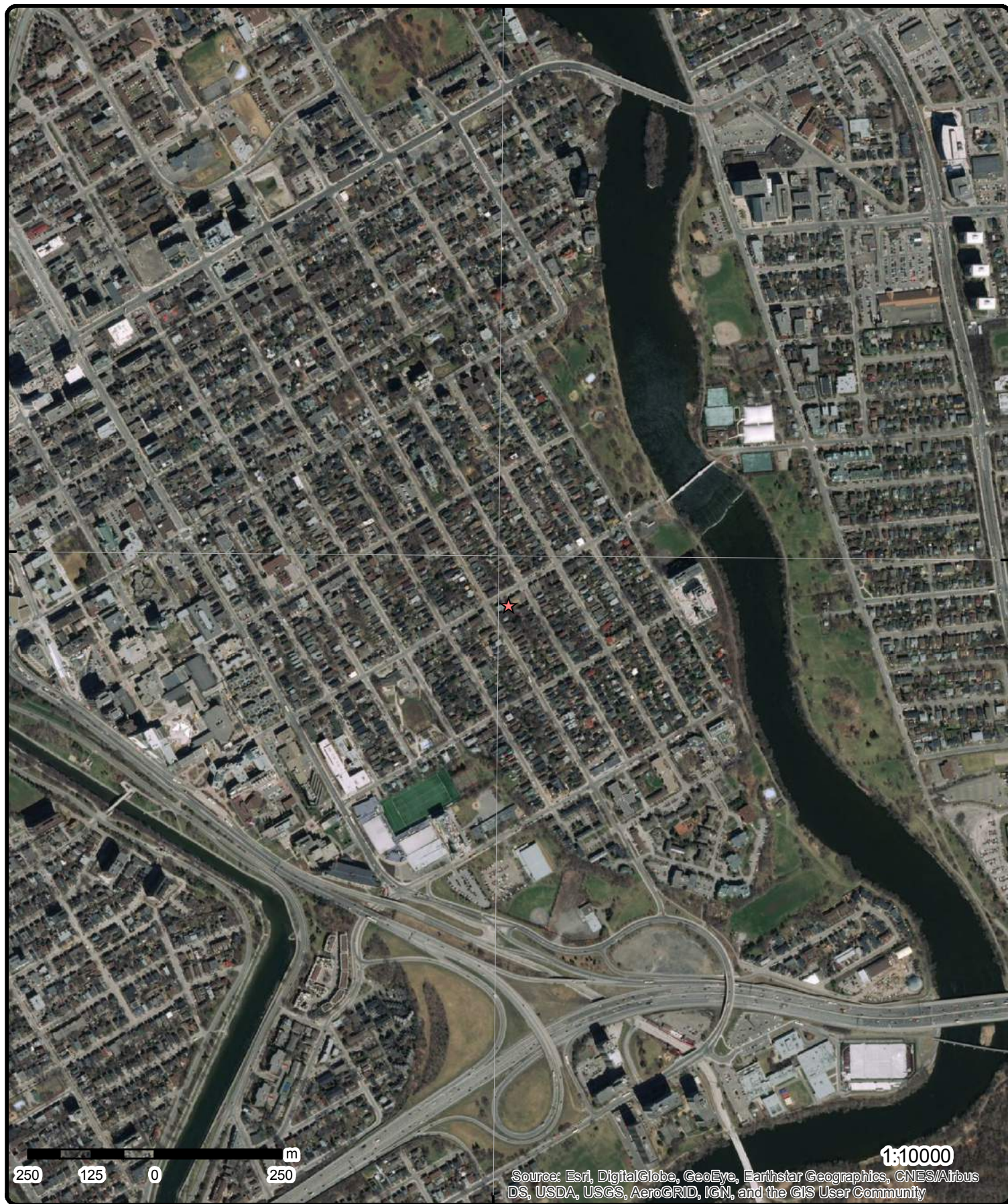


	Project Property		Expressway		Industrial and Resource - Regions		National Park
	Buffer Outline		Principal Highway		Main Line		Provincial or Territorial Park
	Eris Sites with Higher Elevation		Secondary Highway		Sidetrack		Other Park
	Eris Sites with Same Elevation		Major Road		Transit Line		Golf Course or Driving Range
	Eris Sites with Lower Elevation		Local road		Abandoned Line		Park or Sports Field
	Eris Sites with Unknown Elevation		Trail				Other Recreation Area
			Proposed Road				
			Ferry Route/Ice Road				

75°40'30"W

45°25'30"N

45°25'30"N



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Aerial (2016)

Address: 316 Somerset, Ottawa, ON

Source: ESRI World Imagery

Order No: 20171214066



© ERIS Information Limited Partnership



Topographic Map

Address: 316 Somerset, Ottawa, ON

Source: ESRI World Topographic Map

Order No: 20171214066



© ERIS Information Limited Partnership

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
1	1 of 1	SW/1.7	59.4	316 Somerset Avenue, East Ottawa ON	SPL
Ref No: 2208-8N6RZ4 Contaminant Name: FURNACE OIL Contaminant Code: 13 Contaminant Limit 1: Contam. Limit Freq 1: Contaminant UN No 1: Contaminant Qty: MOE Reported Dt: 10/31/2011 Health/Env Conseq: Incident Dt: 10/31/2011 Incident Cause: Incident Event: Incident Reason: Incident Summary: TSSA/Resident-Outside Furnace Oil Tank Weeping		Site Address: 316 Somerset Avenue, East Site Conc: Site Lot: Site County/District: Site Municipality: Ottawa Site Postal Code: Sector Type: Source Type: Receiving Medium: Receiving Env: Environment Impact: Not Anticipated Nature of Impact: SAC Action Class: TSSA - Fuel Safety Branch			
2	1 of 1	ESE/27.9	60.9	104 BLACKBURN AVE, OTTAWA ON	PINC
Incident ID: Incident No: 1769412 Type: FS-Pipeline Incident Status Code: Pipeline Damage Reason Est Fuel Occurrence Tp: Fuel Type: Tank Status: RC Established Task No: 5969477 Spills Action Centre: Method Details: E-mail Fuel Category: Natural Gas Date of Occurrence: Occurrence Start Date: 2015/12/09 Operation Type: Pipeline Type: Regulator Type: Summary: 104 BLACKBURN AVE, OTTAWA - PIPELINE HIT - 1/2" Reported By: Chad Loveland - Enbridge Gas Affiliation: Occurrence Desc: Damage Reason: Excavation practices not sufficient Notes:		Health Impact: Environment Impact: Property Damage: Yes Service Interrupt: Enforce Policy: Yes Public Relation: Pipeline System: Depth: Pipe Material: PSIG: Attribute Category: FS-Perform P-line Inc Invest Regulator Location:			
3	1 of 1	ENE/29.0	59.6	322 Somerset St E Ottawa ON K1N6W3	EHS
Postal Code: K1N6W3 City: Ottawa Address2: Address1: 322 Somerset St E					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Provstate: ON Order No.: 20160427109 Addit. Info Ordered:: Title Searches; Topographic Maps; City Directory Report Date: 03-MAY-16 Report Type: Standard Select Report Search Radius (km): .25					
4	1 of 1	NE/33.0	59.2	322 Somerset street e ottawa ON K1N 6W3	EHS
Postal Code: City: Address2: Address1: Provstate: Order No.: 20100216037 Addit. Info Ordered:: Fire Insur. Maps and/or Site Plans; City Directory Report Date: 2/25/2010 Report Type: Standard Report Search Radius (km): 0.25					
5	1 of 1	NNE/52.2	57.9	ON	BORE
Borehole ID: 803463 Use: Geotechnical/Geological Investigation Drill Method:: Hollow stem auger Easting:: 447236.38 Location Accuracy:: Elev. Reliability Note:: Total Depth m:: 3.2 Township:: Lot:: Completion Date:: 25-JAN-1984 Primary Water Use::					
Type: Borehole Status:: UTM Zone:: 18 Northing:: 5030335.54 Orig. Ground Elev m:: -999.9 DEM Ground Elev m:: 58.1 Primary Name:: BH 11 Concession:: Municipality: Static Water Level:: -999.9 Sec. Water Use::					
--Details--					
Stratum ID: 218576561 Bottom Depth(m): 0.1 Top Depth(m): 0.0 Stratum Desc: Asphalt					
Stratum ID: 218576562 Bottom Depth(m): 0.2 Top Depth(m): 0.1 Stratum Desc: Concrete					
Stratum ID: 218576563 Bottom Depth(m): 0.5 Top Depth(m): 0.2 Stratum Desc: Brown Silt - Sand With: Gr					
Stratum ID: 218576564 Bottom Depth(m): 0.7 Top Depth(m): 0.5 Stratum Desc: Dark Brown Till sand silt					
Stratum ID: 218576565 Bottom Depth(m): 1.5 Top Depth(m): 0.7 Stratum Desc: Dark Brown Shale Eastview Formation					
Stratum ID: 218576566 Bottom Depth(m): 3.2 Top Depth(m): 1.5 Stratum Desc: Dark Brown Shale					
6	1 of 1	N/75.7	57.1	ON	BORE
Borehole ID: 803462 Use: Geotechnical/Geological Investigation Type: Borehole Status::					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Drill Method:: Easting:: Location Accuracy:: Elev. Reliability Note:: Total Depth m:: Township:: Lot:: Completion Date:: Primary Water Use::	Hollow stem auger 447219.87 1.5 25-JAN-1984			UTM Zone:: Northing:: Orig. Ground Elev m:: DEM Ground Elev m:: Primary Name:: Concession:: Municipality: Static Water Level:: Sec. Water Use::	18 5030363.35 -999.9 58.3 BH 10 -999.9
--Details--					
Stratum ID:	218576556			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	Asphalt
Stratum ID:	218576557			Top Depth(m):	0.1
Bottom Depth(m):	0.2			Stratum Desc:	Concrete
Stratum ID:	218576558			Top Depth(m):	0.2
Bottom Depth(m):	0.4			Stratum Desc:	Brown Silt - Sand With: Gr
Stratum ID:	218576559			Top Depth(m):	0.4
Bottom Depth(m):	0.6			Stratum Desc:	Dark Brown Till sand silt
Stratum ID:	218576560			Top Depth(m):	0.6
Bottom Depth(m):	1.5			Stratum Desc:	Dark Brown Shale Eastview Formation
7	1 of 1	NE/85.7	56.7	323 Somerset St E Ottawa ON K1N6W4	EHS
Postal Code: City: Address2: Address1: Provstate: Order No.: 20131205003 Addit. Info Ordered:: Report Date: 11-DEC-13 Report Type: Custom Report Search Radius (km): .25					
8	1 of 1	N/102.6	59.4	ON	BORE
Borehole ID: Use: Drill Method:: Easting:: Location Accuracy:: Elev. Reliability Note:: Total Depth m:: Township:: Lot:: Completion Date:: Primary Water Use::	803461 Geotechnical/Geological Investigation Hollow stem auger 447203.93 3.3 25-JAN-1984			Type: Status:: UTM Zone:: Northing:: Orig. Ground Elev m:: DEM Ground Elev m:: Primary Name:: Concession:: Municipality: Static Water Level:: Sec. Water Use::	Borehole 18 5030389.64 -999.9 58.9 BH 9 -999.9
--Details--					
Stratum ID:	218576550			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	Asphalt
Stratum ID:	218576551			Top Depth(m):	0.1
Bottom Depth(m):	0.3			Stratum Desc:	Concrete

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Stratum ID: Bottom Depth(m):	218576552 0.5			Top Depth(m): Stratum Desc:	0.3 Brown Silt - Sand With: Gr
Stratum ID: Bottom Depth(m):	218576553 0.8			Top Depth(m): Stratum Desc:	0.5 Dark Brown Till sand silt
Stratum ID: Bottom Depth(m):	218576554 1.5			Top Depth(m): Stratum Desc:	0.8 Dark Brown Limestone Eastview Formation
Stratum ID: Bottom Depth(m):	218576555 3.3			Top Depth(m): Stratum Desc:	1.5 Dark Brown Limestone Eastview Formation

9	1 of 1	NE/114.3	57.5	ON	BORE
Borehole ID: Use: Drill Method:: Easting:: Location Accuracy:: Elev. Reliability Note:: Total Depth m:: Township:: Lot:: Completion Date:: Primary Water Use::	806981 Geotechnical/Geological Investigation Hollow stem auger 447299.15 46 06-MAY-2000			Type: Status:: UTM Zone:: Northing:: Orig. Ground Elev m:: DEM Ground Elev m:: Primary Name:: Concession:: Municipality: Static Water Level:: Sec. Water Use::	Borehole 18 5030365.37 57.8 58.1 BH 115 -999.9
--Details--					
Stratum ID: Bottom Depth(m):	218590994 0.2			Top Depth(m): Stratum Desc:	0.0 Asphalt
Stratum ID: Bottom Depth(m):	218590995 0.5			Top Depth(m): Stratum Desc:	0.2 Base
Stratum ID: Bottom Depth(m):	218590996 2.1			Top Depth(m): Stratum Desc:	0.5 Dark Brown Fill-Misc Sand Trace: Gr Tr Org M
Stratum ID: Bottom Depth(m):	218590997 3.6			Top Depth(m): Stratum Desc:	2.1 Bedrock Limestone LINDSAY FORMATION
Stratum ID: Bottom Depth(m):	218590998 12.1			Top Depth(m): Stratum Desc:	3.6 Bedrock Limestone
Stratum ID: Bottom Depth(m):	218590999 22.4			Top Depth(m): Stratum Desc:	12.1 Bedrock
Stratum ID: Bottom Depth(m):	218591000 32.3			Top Depth(m): Stratum Desc:	22.4 Bedrock VERULAM FORMATION
Stratum ID: Bottom Depth(m):	218591001 46.0			Top Depth(m): Stratum Desc:	32.3 Grey Bedrock Limestone

10	1 of 1	ENE/117.3	60.0	ON	BORE
Borehole ID: Use: Drill Method:: Easting:: Location Accuracy::	803512 Geotechnical/Geological Investigation Hollow stem auger 447324.22			Type: Status:: UTM Zone:: Northing:: Orig. Ground Elev m::	Borehole 18 5030330.91 -999.9

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Elev. Reliability Note::				DEM Ground Elev m::	58.6
Total Depth m::	3.4			Primary Name::	BH 8
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	07-FEB-1984			Static Water Level::	-999.9
Primary Water Use::				Sec. Water Use::	
--Details--					
Stratum ID:	218576787			Top Depth(m):	0.1
Bottom Depth(m):	0.1			Stratum Desc:	Crushed Stone
Stratum ID:	218576788			Top Depth(m):	0.1
Bottom Depth(m):	0.2			Stratum Desc:	Sand
Stratum ID:	218576789			Top Depth(m):	0.2
Bottom Depth(m):	1.9			Stratum Desc:	Dark Brown to Black Till sand silt With: Gr
Stratum ID:	218576790			Top Depth(m):	1.9
Bottom Depth(m):	3.4			Stratum Desc:	Dark Grey Limestone Eastview Formation
Stratum ID:	218576786			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	Asphalt
11	1 of 1	NE/123.3	57.5	ON	BORE
Borehole ID:	803509			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Hollow stem auger			UTM Zone::	18
Easting::	447291.7			Northing::	5030384.51
Location Accuracy::				Orig. Ground Elev m::	-999.9
Elev. Reliability Note::				DEM Ground Elev m::	57.5
Total Depth m::	1.2			Primary Name::	BH 7
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	07-FEB-1984			Static Water Level::	-999.9
Primary Water Use::				Sec. Water Use::	
--Details--					
Stratum ID:	218576775			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	Asphalt
Stratum ID:	218576776			Top Depth(m):	0.1
Bottom Depth(m):	0.2			Stratum Desc:	Sand - Gravel
Stratum ID:	218576777			Top Depth(m):	0.2
Bottom Depth(m):	1.2			Stratum Desc:	Dark Brown Fill-Misc sand silt With: Gr W Org M
12	1 of 1	NNW/131.3	59.7	ON	BORE
Borehole ID:	803459			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Hollow stem auger			UTM Zone::	18
Easting::	447184.85			Northing::	5030415.49
Location Accuracy::				Orig. Ground Elev m::	-999.9
Elev. Reliability Note::				DEM Ground Elev m::	59.3
Total Depth m::	1.3			Primary Name::	BH 8
Township::				Concession::	
Lot::				Municipality:	

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Completion Date:: 25-JAN-1984				Static Water Level:: -999.9	
Primary Water Use::				Sec. Water Use::	
--Details--					
Stratum ID:	218576539			Top Depth(m): 0.0	
Bottom Depth(m):	0.1			Stratum Desc: Asphalt	
Stratum ID:	218576540			Top Depth(m): 0.1	
Bottom Depth(m):	0.3			Stratum Desc: Concrete	
Stratum ID:	218576541			Top Depth(m): 0.3	
Bottom Depth(m):	0.6			Stratum Desc: Brown Silt - Sand With: Gr	
Stratum ID:	218576542			Top Depth(m): 0.6	
Bottom Depth(m):	1.3			Stratum Desc: Dark Brown Till sand silt	
13	1 of 2	WSW/135.0	57.9	R.M. OF OTTAWA-CARLETON RUSSELL AVE/SOMERSET ST.E. OTTAWA CITY ON	CA
Certificate #: 7-0260-97-					
Application Year: 97					
Issue Date: 4/15/1997					
Approval Type: Municipal water					
Status: Approved					
Application Type:					
Client Name::					
Client Address::					
Client City::					
Client Postal Code::					
Project Description::					
Contaminants::					
Emission Control::					
13	2 of 2	WSW/135.0	57.9	OTTAWA CITY RUSSELL AVE/SOMERSET ST.E. OTTAWA CITY ON	CA
Certificate #: 3-0345-97-					
Application Year: 97					
Issue Date: 4/15/1997					
Approval Type: Municipal sewage					
Status: Approved					
Application Type:					
Client Name::					
Client Address::					
Client City::					
Client Postal Code::					
Project Description::					
Contaminants::					
Emission Control::					
14	1 of 1	WSW/145.4	58.2	ON	BORE
Borehole ID:	806990			Type: Borehole	
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Hollow stem auger			UTM Zone:: 18	
Easting::	447078.73			Northing:: 5030237.5	
Location Accuracy::				Orig. Ground Elev m:: 57.4	

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Elev. Reliability Note::				DEM Ground Elev m::	57.8
Total Depth m::		46		Primary Name::	BH 113
Township::				Concession::	
Lot::				Municipality:	
Completion Date::		07-DEC-2000		Static Water Level::	-999.9
Primary Water Use::				Sec. Water Use::	
--Details--					
Stratum ID:	218591034			Top Depth(m):	0.0
Bottom Depth(m):	0.2			Stratum Desc:	Asphalt
Stratum ID:	218591035			Top Depth(m):	0.2
Bottom Depth(m):	0.6			Stratum Desc:	Fill-Misc
Stratum ID:	218591036			Top Depth(m):	0.6
Bottom Depth(m):	1.4			Stratum Desc:	Black Topsoil clay silt
Stratum ID:	218591037			Top Depth(m):	1.4
Bottom Depth(m):	3.9			Stratum Desc:	Bedrock BILLINGS FORMATION
Stratum ID:	218591038			Top Depth(m):	3.9
Bottom Depth(m):	9.9			Stratum Desc:	Bedrock LINDSAY FORMATION
Stratum ID:	218591039			Top Depth(m):	9.9
Bottom Depth(m):	18.4			Stratum Desc:	Bedrock
Stratum ID:	218591040			Top Depth(m):	18.4
Bottom Depth(m):	28.9			Stratum Desc:	Bedrock
Stratum ID:	218591041			Top Depth(m):	28.9
Bottom Depth(m):	35.4			Stratum Desc:	Bedrock VERULAM FORMATION
Stratum ID:	218591042			Top Depth(m):	35.4
Bottom Depth(m):	46.0			Stratum Desc:	Grey Bedrock Limestone

15

1 of 1

E/151.2

61.8

ON

BORE

Borehole ID: 803515
Use: Geotechnical/Geological Investigation
Drill Method:: Hollow stem auger
Easting:: 447364.46
Location Accuracy::
Elev. Reliability Note::
Total Depth m:: 4.3
Township::
Lot::
Completion Date:: 07-FEB-1984
Primary Water Use::

Type: Borehole
Status::
UTM Zone:: 18
Northing:: 5030263.67
Orig. Ground Elev m:: -999.9
DEM Ground Elev m:: 61.3
Primary Name:: BH 9
Concession::
Municipality:
Static Water Level:: -999.9
Sec. Water Use::

--Details--

Stratum ID: 218576798
Bottom Depth(m): 0.1

Top Depth(m): 0.0
Stratum Desc: Asphalt

Stratum ID: 218576799
Bottom Depth(m): 0.4

Top Depth(m): 0.1
Stratum Desc: Silt - Sand With: Gr W Cob

Stratum ID: 218576800
Bottom Depth(m): 1.0

Top Depth(m): 0.4
Stratum Desc: Dark Brown Fill-Misc sand silt With: Gr

Stratum ID: 218576801
Bottom Depth(m): 2.9

Top Depth(m): 1.0
Stratum Desc: Brown Loose to Compact Till sand silt With: Cl

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
					W Gr
Stratum ID:	218576802			Top Depth(m):	2.9
Bottom Depth(m):	4.3			Stratum Desc:	Dark Grey to Black Compact Till sand silt With: CI W Gr
16	1 of 1	SSW/151.8	59.9	FERNANDO MARTINS 165-169 RUSSELL AVENUE (SWM) OTTAWA CITY ON K1N 7X3	CA
Certificate #:	3-0602-97-				
Application Year:	97				
Issue Date:	7/2/1997				
Approval Type:	Municipal sewage				
Status:	Approved				
Application Type:					
Client Name::					
Client Address::					
Client City::					
Client Postal Code::					
Project Description::					
Contaminants::					
Emission Control::					
17	1 of 1	WSW/152.3	58.2	287 Somerset St E Ottawa ON K1N6V7	EHS
Postal Code:	K1N6V7				
City:	Ottawa				
Address2:					
Address1:	287 Somerset St E				
Provstate:	ON				
Order No.:	20160216045				
Addit. Info Ordered::					
Report Date:	19-FEB-16				
Report Type:	Custom Report				
Search Radius (km):	.25				
18	1 of 1	NNE/160.4	59.6	ON	BORE
Borehole ID:	803505		Type:	Borehole	
Use:	Geotechnical/Geological Investigation		Status::		
Drill Method::	Hollow stem auger		UTM Zone::	18	
Easting::	447256.57		Northing::	5030442.65	
Location Accuracy::			Orig. Ground Elev m::	-999.9	
Elev. Reliability Note::			DEM Ground Elev m::	58.3	
Total Depth m::	3.8		Primary Name::	BH 6	
Township::					
Lot::					
Completion Date::	07-FEB-1984		Concession::		
Primary Water Use::			Municipality:		
			Static Water Level::	-999.9	
			Sec. Water Use::		
--Details--					
Stratum ID:	218576754		Top Depth(m):	0.0	
Bottom Depth(m):	0.1		Stratum Desc:	Asphalt	
Stratum ID:	218576755		Top Depth(m):	0.1	
Bottom Depth(m):	0.2		Stratum Desc:	Concrete	

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Stratum ID:	218576756			Top Depth(m):	0.2
Bottom Depth(m):	2.2			Stratum Desc:	Dark Brown Fill-Misc sand silt With: Cl W Gr W Cob
Stratum ID:	218576757			Top Depth(m):	2.2
Bottom Depth(m):	3.8			Stratum Desc:	Dark Grey Limestone Eastview Formation

19	1 of 1	NNW/171.1	62.2	ON	BORE
Borehole ID:	803457			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Hollow stem auger			UTM Zone::	18
Easting::	447163.76			Northing::	5030450.88
Location Accuracy::				Orig. Ground Elev m::	-999.9
Elev. Reliability Note::				DEM Ground Elev m::	60
Total Depth m::	2.7			Primary Name::	BH 7
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	25-JAN-1984			Static Water Level::	-999.9
Primary Water Use::				Sec. Water Use::	
--Details--					
Stratum ID:	218576528			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	Asphalt
Stratum ID:	218576529			Top Depth(m):	0.1
Bottom Depth(m):	0.2			Stratum Desc:	Concrete
Stratum ID:	218576530			Top Depth(m):	0.2
Bottom Depth(m):	0.8			Stratum Desc:	Brown Silt - Sand With: Gr
Stratum ID:	218576531			Top Depth(m):	0.8
Bottom Depth(m):	1.2			Stratum Desc:	Dark Brown Till sand silt
Stratum ID:	218576532			Top Depth(m):	1.2
Bottom Depth(m):	2.7			Stratum Desc:	Dark Grey Limestone Eastview Formation

20	1 of 1	ESE/195.5	65.1	ON	BORE
Borehole ID:	803517			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Hollow stem auger			UTM Zone::	18
Easting::	447395.46			Northing::	5030212.09
Location Accuracy::				Orig. Ground Elev m::	-999.9
Elev. Reliability Note::				DEM Ground Elev m::	64.5
Total Depth m::	3.7			Primary Name::	BH 10
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	08-FEB-1984			Static Water Level::	-999.9
Primary Water Use::				Sec. Water Use::	
--Details--					
Stratum ID:	218576807			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	Asphalt
Stratum ID:	218576808			Top Depth(m):	0.1
Bottom Depth(m):	0.3			Stratum Desc:	Sand - Gravel
Stratum ID:	218576809			Top Depth(m):	0.3

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Bottom Depth(m):	0.9			Stratum Desc:	Brown Fill-Misc sand silt With: Gr
Stratum ID:	218576810			Top Depth(m):	0.9
Bottom Depth(m):	3.7			Stratum Desc:	Grey-Brown Very Stiff Weathered Crust Silty Clay With: Sa W Gr
21	1 of 1	N/196.5	62.7	45 Blackburn Ave Ottawa ON K1N8A4	EHS
Postal Code:		K1N8A4			
City:		Ottawa			
Address2:					
Address1:		45 Blackburn Ave			
Provstate:		ON			
Order No.:		20160816012			
Addit. Info Ordered::					
Report Date:		19-AUG-16			
Report Type:		Standard Report			
Search Radius (km):		.25			
22	1 of 2	S/205.5	65.9	MANION PLUMBING & HEATING 330 TEMPLETON OTTAWA ON K1N 6X6	GEN
Generator No.:	ON1930353			PO Box No.:	
Status:				Country:	
Approval Years:	04,05,06			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No. Admin:	
SIC Code:					
SIC Description:					
--Details--					
Waste Code:	251				
Waste Description:	OIL SKIMMINGS & SLUDGES				
22	2 of 2	S/205.5	65.9	S.21 330 Templeton St. Ottawa ON K1N 6X6	SPL
Ref No:	2360-63BL6H			Site Address:	
Contaminant Name:	FURNACE OIL			Site Conc:	
Contaminant Code:	13			Site Lot:	
Contaminant Limit 1:				Site County/District:	
Contam. Limit Freq 1:				Site Municipality:	Ottawa
Contaminant UN No 1:				Site Postal Code:	
Contaminant Qty:				Sector Type:	
MOE Reported Dt:	7/28/2004			Source Type:	
Health/Env Conseq:				Receiving Medium:	Land
Incident Dt:	7/28/2004			Receiving Env:	
Incident Cause:	Tank (Underground) Leak			Environment Impact:	Not Anticipated
Incident Event:				Nature of Impact:	Soil Contamination
Incident Reason:	Equipment Failure			SAC Action Class:	Spill to Land
Incident Summary:	Priv.res., undergrd oil tank, furnace oil to grnd				
23	1 of 1	NNW/207.3	64.7	ON	BORE

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<hr/>					
Borehole ID:	803454			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Hollow stem auger			UTM Zone::	18
Easting::	447144.74			Northing::	5030482.73
Location Accuracy::				Orig. Ground Elev m::	-999.9
Elev. Reliability Note::				DEM Ground Elev m::	60.6
Total Depth m::	1.8			Primary Name::	BH 6
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	26-JAN-1984			Static Water Level::	-999.9
Primary Water Use::				Sec. Water Use::	
--Details--					
Stratum ID:	218576521			Top Depth(m):	1.5
Bottom Depth(m):	1.8			Stratum Desc:	Limestone
Stratum ID:	218576517			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	Asphalt
Stratum ID:	218576518			Top Depth(m):	0.1
Bottom Depth(m):	0.2			Stratum Desc:	Concrete
Stratum ID:	218576519			Top Depth(m):	0.2
Bottom Depth(m):	0.4			Stratum Desc:	Brown Silt - Sand With: Gr
Stratum ID:	218576520			Top Depth(m):	0.4
Bottom Depth(m):	1.5			Stratum Desc:	Dark Brown Till sand silt
<hr/>					
24	1 of 1	N/220.2	61.5	ON	BORE
Borehole ID:	803503			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Hollow stem auger			UTM Zone::	18
Easting::	447217.35			Northing::	5030507.87
Location Accuracy::				Orig. Ground Elev m::	-999.9
Elev. Reliability Note::				DEM Ground Elev m::	58.7
Total Depth m::	1.9			Primary Name::	BH 5
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	07-FEB-1984			Static Water Level::	-999.9
Primary Water Use::				Sec. Water Use::	
--Details--					
Stratum ID:	218576745			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	Asphalt
Stratum ID:	218576746			Top Depth(m):	0.1
Bottom Depth(m):	0.1			Stratum Desc:	Sand - Gravel
Stratum ID:	218576747			Top Depth(m):	0.1
Bottom Depth(m):	0.2			Stratum Desc:	Concrete
Stratum ID:	218576748			Top Depth(m):	0.2
Bottom Depth(m):	1.9			Stratum Desc:	Dark Brown Fill-Misc sand silt With: Gr
<hr/>					
25	1 of 1	N/222.3	63.2	82 Goulburn Avenue Ottawa ON K1N 8E1	SPL
Ref No:	6248-76J3D9			Site Address:	
Contaminant Name:	MINERAL OIL			Site Conc:	

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Contaminant Code: Contaminant Limit 1: Contam. Limit Freq 1: Contaminant UN No 1: Contaminant Qty: MOE Reported Dt: Health/Env Conseq: Incident Dt: Incident Cause: Incident Event: Incident Reason: Incident Summary:	13 2 L 8/28/2007 Valve / Fitting Leak Or Failure Hydro Ottawa: Transformer Leak, 2L oil to ground			Site Lot: Site County/District: Site Municipality: Ottawa Site Postal Code: Sector Type: Transformer Source Type: Receiving Medium: Land Receiving Env: Environment Impact: Confirmed Nature of Impact: Soil Contamination SAC Action Class:	

26	1 of 1	SW/229.0	57.9	ON	BORE
Borehole ID: Use: Drill Method:: Easting:: Location Accuracy:: Elev. Reliability Note:: Total Depth m:: Township:: Lot:: Completion Date:: Primary Water Use::	803762 Geotechnical/Geological Investigation Hollow stem auger 447030.04 2 27-JAN-1984			Type: Status:: UTM Zone:: Northing:: Orig. Ground Elev m:: DEM Ground Elev m:: Primary Name:: Concession:: Municipality: Static Water Level:: Sec. Water Use::	Borehole 18 5030152.92 -999.9 57.3 BH 2 -999.9
--Details--					
Stratum ID: Bottom Depth(m):	218577844 0.1			Top Depth(m): Stratum Desc:	0.0 Asphalt
Stratum ID: Bottom Depth(m):	218577845 0.4			Top Depth(m): Stratum Desc:	0.1 Brown Silt - Sand With: Gr
Stratum ID: Bottom Depth(m):	218577846 0.6			Top Depth(m): Stratum Desc:	0.4 Cinder Ash
Stratum ID: Bottom Depth(m):	218577847 2.0			Top Depth(m): Stratum Desc:	0.6 Dark Brown Peat With: Si

27	1 of 1	WSW/229.4	59.4	ON	BORE
Borehole ID: Use: Drill Method:: Easting:: Location Accuracy:: Elev. Reliability Note:: Total Depth m:: Township:: Lot:: Completion Date:: Primary Water Use::	803759 Geotechnical/Geological Investigation Hollow stem auger 447005.24 5 27-JAN-1984			Type: Status:: UTM Zone:: Northing:: Orig. Ground Elev m:: DEM Ground Elev m:: Primary Name:: Concession:: Municipality: Static Water Level:: Sec. Water Use::	Borehole 18 5030195.38 -999.9 58.8 BH 1 -999.9
--Details--					
Stratum ID: Bottom Depth(m):	218577829 0.1			Top Depth(m): Stratum Desc:	0.0 Asphalt

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Stratum ID: Bottom Depth(m):	218577830 0.5			Top Depth(m): Stratum Desc:	0.1 Brown Silt - Sand With: Gr
Stratum ID: Bottom Depth(m):	218577831 1.1			Top Depth(m): Stratum Desc:	0.5 Dark Grey Fill-Misc sand silt With: Brk Frag W Org M W Constr Debris
Stratum ID: Bottom Depth(m):	218577833 3.4			Top Depth(m): Stratum Desc:	2.9 Grey Very Loose Till sand silt
Stratum ID: Bottom Depth(m):	218577834 5.0			Top Depth(m): Stratum Desc:	3.4 Dark Grey Limestone Eastview Formation
Stratum ID: Bottom Depth(m):	218577832 2.9			Top Depth(m): Stratum Desc:	1.1 Dark Brown Peat With: Si

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1 of 1

SW/237.8

57.9

ON

BORE

Borehole ID: 803764
Use: Geotechnical/Geological Investigation
Drill Method:: Hollow stem auger
Easting:: 447052.81
Location Accuracy::
Elev. Reliability Note::
Total Depth m:: 4.9
Township::
Lot::
Completion Date:: 27-JAN-1984
Primary Water Use::

Type: Borehole
Status::
UTM Zone:: 18
Northing:: 5030114
Orig. Ground Elev m:: -999.9
DEM Ground Elev m:: 56.7
Primary Name:: BH 3
Concession::
Municipality:
Static Water Level:: -999.9
Sec. Water Use::

--Details--

Stratum ID: 218577851
Bottom Depth(m): 0.1

Top Depth(m): 0.0
Stratum Desc: Asphalt

Stratum ID: 218577852
Bottom Depth(m): 0.3

Top Depth(m): 0.1
Stratum Desc: Brown Sand - Gravel

Stratum ID: 218577853
Bottom Depth(m): 0.8

Top Depth(m): 0.3
Stratum Desc: Grey-Brown Silt - Sand With: Gr

Stratum ID: 218577854
Bottom Depth(m): 2.4

Top Depth(m): 0.8
Stratum Desc: Dark Brown Peat With: Si

Stratum ID: 218577855
Bottom Depth(m): 4.9

Top Depth(m): 2.4
Stratum Desc: Dark Grey Limestone Eastview Formation

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1 of 1

NNW/246.9

66.5

ON

BORE

Borehole ID: 803450
Use: Geotechnical/Geological Investigation
Drill Method:: Hollow stem auger
Easting:: 447127.56
Location Accuracy::
Elev. Reliability Note::
Total Depth m:: 4.2
Township::
Lot::
Completion Date:: 26-JAN-1984
Primary Water Use::

Type: Borehole
Status::
UTM Zone:: 18
Northing:: 5030518.55
Orig. Ground Elev m:: -999.9
DEM Ground Elev m:: 61.1
Primary Name:: BH 5
Concession::
Municipality:
Static Water Level:: -999.9
Sec. Water Use::

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
--Details--					
Stratum ID:	218576501			Top Depth(m):	2.1
Bottom Depth(m):	2.3			Stratum Desc:	Limestone
Stratum ID:	218576502			Top Depth(m):	2.3
Bottom Depth(m):	4.2			Stratum Desc:	Grey Limestone Eastview Formation
Stratum ID:	218576493			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	Asphalt
Stratum ID:	218576494			Top Depth(m):	0.1
Bottom Depth(m):	0.1			Stratum Desc:	Sand - Gravel
Stratum ID:	218576495			Top Depth(m):	0.1
Bottom Depth(m):	0.3			Stratum Desc:	Concrete
Stratum ID:	218576496			Top Depth(m):	0.3
Bottom Depth(m):	0.5			Stratum Desc:	Brown Silt - Sand With: Gr
Stratum ID:	218576497			Top Depth(m):	0.5
Bottom Depth(m):	0.9			Stratum Desc:	Brown Sand
Stratum ID:	218576498			Top Depth(m):	0.9
Bottom Depth(m):	1.4			Stratum Desc:	Brown sand silt With: Gr
Stratum ID:	218576499			Top Depth(m):	1.4
Bottom Depth(m):	1.5			Stratum Desc:	Topsoil Sand
Stratum ID:	218576500			Top Depth(m):	1.5
Bottom Depth(m):	2.1			Stratum Desc:	Dark Brown Loose Till sand silt

Unplottable Summary

Total: 15 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA	CITY	SWEETLAND AVE.	OTTAWA ON	
CA	Chapel / Blackburn	Blackburn Avenue - Chapel Street	Ottawa ON	
CA	R.M. OF OTTAWA-CARLETON	SOMERSET STREET	OTTAWA CITY ON	
CA	City of Ottawa	Somerset East	Ottawa ON	
CA	OTTAWA CITY (I. BHATIA)	RUSSELL AVE.	OTTAWA CITY ON	
CA	R.M. OF OTTAWA-CARLETON	MARLBOROUGH STREET	OTTAWA CITY ON	
CA	R.M. OF OTTAWA-CARLETON	MARLBOROUGH ST.	OTTAWA CITY ON	
CA	CITY	GOULBURN AVE.	OTTAWA ON	
CA	OTTAWA CITY	CHAPEL STREET	OTTAWA CITY ON	
CA	CITY OF OTTAWA NON-PROFIT HSG. CORP.	CHAPEL ST./STM-WATER MGT.	OTTAWA CITY ON	
CA	Chapel / Blackburn	Blackburn Avenue - Chapel Street	Ottawa ON	
CA	Chapel / Blackburn	Blackburn Avenue - Chapel Street	Ottawa ON	
CA	REG.MUN.OF OTTAWA-CARLETON	SWEETLAND AVE.	OTTAWA ON	
CA	OTTAWA CITY	BLACKBURN AVE.	OTTAWA CITY ON	
ECA	City of Ottawa	Somerset Street East	Ottawa ON	K2G 6J8

Unplottable Report

Site: CITY
SWEETLAND AVE. OTTAWA ON

Database:
CA

Certificate #: 3-0390-85-006
Application Year: 85
Issue Date: 5/15/85
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: Chapel / Blackburn
Blackburn Avenue - Chapel Street Ottawa ON

Database:
CA

Certificate #: 2328-5B9JEF
Application Year: 02
Issue Date: 6/19/02
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name:: City of Ottawa
Client Address:: 1495 Heron Road
Client City:: Ottawa
Client Postal Code:: K1V 6A6
Project Description:: Approval is sought for the construction of watermains on Chapel Street and Blackburn Avenue.
Contaminants::
Emission Control::

Site: R.M. OF OTTAWA-CARLETON
SOMERSET STREET OTTAWA CITY ON

Database:
CA

Certificate #: 7-0096-88-
Application Year: 88
Issue Date: 2/10/1988
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: City of Ottawa
Somerset East Ottawa ON

Database:
CA

Certificate #: 5307-772KSY
Application Year: 2007

Issue Date: 10/16/2007
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: OTTAWA CITY (I. BHATIA)
RUSSELL AVE. OTTAWA CITY ON

Database:
CA

Certificate #: 3-1218-86-
Application Year: 86
Issue Date: 8/22/1986
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: R.M. OF OTTAWA-CARLETON
MARLBOROUGH STREET OTTAWA CITY ON

Database:
CA

Certificate #: 3-0449-90-
Application Year: 90
Issue Date: 3/20/1990
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: R.M. OF OTTAWA-CARLETON
MARLBOROUGH ST. OTTAWA CITY ON

Database:
CA

Certificate #: 7-0361-90-
Application Year: 90
Issue Date: 3/20/1990
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: CITY
GOULBURN AVE. OTTAWA ON

Database:
CA

Certificate #: 3-0164-85-006
Application Year: 85
Issue Date: 3/13/85
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: OTTAWA CITY
CHAPEL STREET OTTAWA CITY ON

Database:
CA

Certificate #: 3-0875-89-
Application Year: 89
Issue Date: 5/26/1989
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: CITY OF OTTAWA NON-PROFIT HSG. CORP.
CHAPEL ST./STM-WATER MGT. OTTAWA CITY ON

Database:
CA

Certificate #: 3-1738-91-
Application Year: 91
Issue Date: 11/18/1991
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: Chapel / Blackburn
Blackburn Avenue - Chapel Street Ottawa ON

Database:
CA

Certificate #:
Application Year: 02
Issue Date: 6/19/02
Approval Type: Municipal & Private water
Status: Cancelled
Application Type: New Certificate of Approval
Client Name:: City of Ottawa
Client Address:: 1495 Heron Road
Client City:: Ottawa
Client Postal Code:: K1V 6A6
Project Description:: Approval is sought for the construction of watermains on Chapel Street and Blackburn Avenue.

Contaminants::
Emission Control::

Site: Chapel / Blackburn
Blackburn Avenue - Chapel Street Ottawa ON

Database:
CA

Certificate #: 0963-5B9HS6
Application Year: 02
Issue Date: 6/19/02
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name:: City of Ottawa
Client Address:: 1495 Heron Road
Client City:: Ottawa
Client Postal Code:: K1V 6A6
Project Description:: Approval is sought for the construction of storm and sanitary sewers on Chapel Street and Blackburn Avenue.
Contaminants::
Emission Control::

Site: REG.MUN.OF OTTAWA-CARLETON
SWEETLAND AVE. OTTAWA ON

Database:
CA

Certificate #: 7-0138-85-006
Application Year: 85
Issue Date: 3/15/85
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: OTTAWA CITY
BLACKBURN AVE. OTTAWA CITY ON

Database:
CA

Certificate #: 3-0787-87-
Application Year: 87
Issue Date: 5/28/1987
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: City of Ottawa
Somerset Street East Ottawa ON K2G 6J8

Database:
ECA

Approval No: 5307-772KSY
Status: Approved
Date: 2007-10-16
Record Type: ECA
Link Source: IDS
Project Type: Municipal and Private Sewage Works

SWP Area Name:
MOE District:
City:
Latitude:
Longitude:

Approval Type:
Full Address:
Full PDF Link:

ECA-Municipal and Private Sewage Works

<https://www.accessenvironment.ene.gov.on.ca/instruments/3820-72YNWV-14.pdf>

Appendix: Database Descriptions

*Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. **Note:** Databases denoted with " * " indicates that the database will no longer be updated. See the individual database description for more information.*

Abandoned Aggregate Inventory:

Provincial

AGR

The MAAP Program maintains a database of abandoned pits and quarries. Please note that the database is only referenced by lot and concession and city/town location. The database provides information regarding the location, type, size, land use, status and general comments.*

Government Publication Date: Sept 2002*

Aggregate Inventory:

Provincial

AGR

The Ontario Ministry of Natural Resources maintains a database of all active pits and quarries. The database provides information regarding the registered owner/operator, location name, operation type, approval type, and maximum annual tonnage.

Government Publication Date: Up to Sep 2017

Abandoned Mine Information System:

Provincial

AMIS

The Abandoned Mines Information System contains data on known abandoned and inactive mines located on both Crown and privately held lands. The information was provided by the Ministry of Northern Development and Mines (MNDM), with the following disclaimer: "the database provided has been compiled from various sources, and the Ministry of Northern Development and Mines makes no representation and takes no responsibility that such information is accurate, current or complete". Reported information includes official mine name, status, background information, mine start/end date, primary commodity, mine features, hazards and remediation.

Government Publication Date: 1800-Nov 2016

Anderson's Waste Disposal Sites:

Private

ANDR

The information provided in this database was collected by examining various historical documents which aimed to characterize the likely position of former waste disposal sites from 1860 to present. The research initiative behind the creation of this database was to identify those sites that are missing from the Ontario MOE Waste Disposal Site Inventory, as well as to provide revisions and corrections to the positions and descriptions of sites currently listed in the MOE inventory. In addition to historic waste disposal facilities, the database also identifies certain auto wreckers and scrap yards that have been extrapolated from documentary sources. Please note that the data is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.

Government Publication Date: 1860s-Present

Automobile Wrecking & Supplies:

Private

AUWR

This database provides an inventory of known locations that are involved in the scrap metal, automobile wrecking/recycling, and automobile parts & supplies industry. Information is provided on the company name, location and business type.

Government Publication Date: 1999-May 2017

Borehole:

Provincial

BORE

A borehole is the generalized term for any narrow shaft drilled in the ground, either vertically or horizontally. The information here includes geotechnical investigations or environmental site assessments, mineral exploration, or as a pilot hole for installing piers or underground utilities. Information is from many sources such as the Ministry of Transportation (MTO) boreholes from engineering reports and projects from the 1950 to 1990's in Southern Ontario. Boreholes from the Ontario Geological Survey (OGS) including The Urban Geology Analysis Information System (UGAIS) and the York Peel Durham Toronto (YPDT) database of the Conservation Authority Moraine Coalition. This database will include fields such as location, stratigraphy, depth, elevation, year drilled, etc. For all water well data or oil and gas well data for Ontario please refer to WWIS and OOGW.

Government Publication Date: 1875-Jul 2014

Certificates of Approval:

Provincial

CA

This database contains the following types of approvals: Air & Noise, Industrial Sewage, Municipal & Private Sewage, Waste Management Systems and Renewable Energy Approvals. The MOE in Ontario states that any facility that releases emissions to the atmosphere, discharges contaminants to ground or surface water, provides potable water supplies, or stores, transports or disposes of waste, must have a Certificate of Approval before it can operate lawfully. Fields include approval number, business name, address, approval date, approval type and status. This database will no longer be updated, as CofA's have been replaced by either Environmental Activity and Sector Registry (EASR) or Environmental Compliance Approval (ECA). Please refer to those individual databases for any information after Oct.31, 2011.

Government Publication Date: 1985-Oct 30, 2011*

Commercial Fuel Oil Tanks:

Provincial

CFOT

Since May 2002, Ontario developed a new act where it became mandatory for fuel oil tanks to be registered with Technical Standards & Safety Authority (TSSA). This data would include all commercial underground fuel oil tanks in Ontario with fields such as location, registration number, tank material, age of tank and tank size.

Government Publication Date: Feb 28, 2017

Chemical Register:

Private

CHEM

This database includes information from both a one time study conducted in 1992 and private source and is a listing of facilities that manufacture or distribute chemicals. The production of these chemical substances may involve one or more chemical reactions and/or chemical separation processes (i.e. fractionation, solvent extraction, crystallization, etc.).

Government Publication Date: 1999-May 2017

Compressed Natural Gas Stations:

Private

CNG

Canada has a network of public access compressed natural gas (CNG) refuelling stations. These stations dispense natural gas in compressed form at 3,000 pounds per square inch (psi), the pressure which is allowed within the current Canadian codes and standards. The majority of natural gas refuelling is located at existing retail gasoline that have a separate refuelling island for natural gas. This list of stations is made available by the Canadian Natural Gas Vehicle Alliance.

Government Publication Date: Dec 31, 2012

Inventory of Coal Gasification Plants and Coal Tar Sites:

Provincial

COAL

This inventory includes both the "Inventory of Coal Gasification Plant Waste Sites in Ontario-April 1987" and the Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario-November 1988) collected by the MOE. It identifies industrial sites that produced and continue to produce or use coal tar and other related tars. Detailed information is available and includes: facility type, size, land use, information on adjoining properties, soil condition, site operators/occupants, site description, potential environmental impacts and historic maps available. This was a one-time inventory.*

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions:

Provincial

CONV

This database summarizes the fines and convictions handed down by the Ontario courts beginning in 1989. Companies and individuals named here have been found guilty of environmental offenses in Ontario courts of law.

Government Publication Date: 1989-Sep 2017

Certificates of Property Use:

Provincial

CPU

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all CPU's on the registry such as (EPA s. 168.6) - Certificate of Property Use.

Government Publication Date: 1994-Oct 2017

Drill Hole Database:

Provincial

DRL

The Ontario Drill Hole Database contains information on more than 113,000 percussion, overburden, sonic and diamond drill holes from assessment files on record with the department of Mines and Minerals. Please note that limited data is available for southern Ontario, as it was the last area to be completed. The database was created when surveys submitted to the Ministry were converted in the Assessment File Research Image Database (AFRI) project. However, the degree of accuracy (coordinates) as to the exact location of drill holes is dependent upon the source document submitted to the MNDM. Levels of accuracy used to locate holes are: centering on the mining claim; a sketch of the mining claim; a 1:50,000 map; a detailed company map; or from submitted a "Report of Work".

Government Publication Date: 1886-Aug 2015

Environmental Activity and Sector Registry:

Provincial

EASR

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. The EASR allows businesses to register certain activities with the ministry, rather than apply for an approval. The registry is available for common systems and processes, to which preset rules of operation can be applied. The EASR is currently available for: heating systems, standby power systems and automotive refinishing. Businesses whose activities aren't subject to the EASR may apply for an ECA (Environmental Compliance Approval), Please see our ECA database.

Government Publication Date: Oct 2011-Oct 2017

Environmental Registry:

Provincial

EBR

The Environmental Registry lists proposals, decisions and exceptions regarding policies, Acts, instruments, or regulations that could significantly affect the environment. Through the Registry, thirteen provincial ministries notify the public of upcoming proposals and invite their comments. For example, if a local business is requesting a permit, license, or certificate of approval to release substances into the air or water; these are notified on the registry. Data includes: Approval for discharge into the natural environment other than water (i.e. Air) - EPA s. 9, Approval for sewage works - OWRA s. 53(1), and EPA s. 27 - Approval for a waste disposal site. For information regarding Permit to Take Water (PTTW), Certificate of Property Use (CPU) and (ORD) Orders please refer to those individual databases.

Government Publication Date: 1994-Oct 2017

Environmental Compliance Approval:

Provincial

ECA

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. In the past, a business had to apply for multiple approvals (known as certificates of approval) for individual processes and pieces of equipment. Today, a business either registers itself, or applies for a single approval, depending on the types of activities it conducts. Businesses whose activities aren't subject to the EASR may apply for an ECA. A single ECA addresses all of a business's emissions, discharges and wastes. Separate approvals for air, noise and waste are no longer required. This database will also include Renewable Energy Approvals. For certificates of approval prior to Nov 1st, 2011, please refer to the CA database. For all Waste Disposal Sites please refer to the WDS database.

Government Publication Date: Oct 2011-Oct 2017

Environmental Effects Monitoring:

Federal

EEM

The Environmental Effects Monitoring program assesses the effects of effluent from industrial or other sources on fish, fish habitat and human usage of fisheries resources. Since 1992, pulp and paper mills have been required to conduct EEM studies under the Pulp and Paper Effluent Regulations. This database provides information on the mill name, geographical location and sub-lethal toxicity data.

Government Publication Date: 1992-2007*

ERIS Historical Searches:

Private

EHS

ERIS has compiled a database of all environmental risk reports completed since March 1999. Available fields for this database include: site location, date of report, type of report, and search radius. As per all other databases, the ERIS database can be referenced on both the map and "Statistical Profile" page.

Government Publication Date: 1999-Aug 2016

Environmental Issues Inventory System:

Federal

EIIS

The Environmental Issues Inventory System was developed through the implementation of the Environmental Issues and Remediation Plan. This plan was established to determine the location and severity of contaminated sites on inhabited First Nation reserves, and where necessary, to remediate those that posed a risk to health and safety; and to prevent future environmental problems. The EIIS provides information on the reserve under investigation, inventory number, name of site, environmental issue, site action (Remediation, Site Assessment), and date investigation completed.

Government Publication Date: 1992-2001*

Emergency Management Historical Event:

Provincial

EMHE

List of locations of historical occurrences of emergency events, including those assigned to the Ministry of Natural Resources by Order-In-Council (OIC) under the Emergency Management and Civil Protection Act, as well as events where MNR provided requested emergency response assistance. Many of these events will have involved community evacuations, significant structural loss, and/or involvement of MNR emergency response staff. These events fall into one of ten (10) type categories: Dam Failure; Drought / Low Water; Erosion; Flood; Forest Fire; Soil and Bedrock Instability; Petroleum Resource Center Event, EMO Requested Assistance, Continuity of Operations Event, Other Requested Assistance. EMHE record details are reproduced by ERIS under License with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2017.

Government Publication Date: Dec 31, 2016

List of TSSA Expired Facilities:

Provincial

EXP

List of facilities with removed tanks which were once registered with the Fuels Safety Program of the Technical Standards and Safety Authority (TSSA). Includes private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc. Tanks which have been removed automatically fall under the expired facilities inventory held by TSSA.

Government Publication Date: Feb 28, 2017

Federal Convictions:

Federal

FCON

Environment Canada maintains a database referred to as the "Environmental Registry" that details prosecutions under the Canadian Environmental Protection Act (CEPA) and the Fisheries Act (FA). Information is provided on the company name, location, charge date, offence and penalty.

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land:

Federal

FCS

The Federal Contaminated Sites Inventory includes information on known federal contaminated sites under the custodianship of departments, agencies and consolidated Crown corporations as well as those that are being or have been investigated to determine whether they have contamination arising from past use that could pose a risk to human health or the environment. The inventory also includes non-federal contaminated sites for which the Government of Canada has accepted some or all financial responsibility. It does not include sites where contamination has been caused by, and which are under the control of, enterprise Crown corporations, private individuals, firms or other levels of government.

Government Publication Date: Jun 2000-Mar 2017

Fisheries & Oceans Fuel Tanks:

Federal

FOFT

Fisheries & Oceans Canada maintains an inventory of aboveground & underground fuel storage tanks located on Fisheries & Oceans property or controlled by DFO. Our inventory provides information on the site name, location, tank owner, tank operator, facility type, storage tank location, tank contents & capacity, and date of tank installation.

Government Publication Date: 1964-Apr 2015

Fuel Storage Tank:

Provincial

FST

The Technical Standards & Safety Authority (TSSA), under the Technical Standards & Safety Act of 2000 maintains a database of registered private and retail fuel storage tanks in Ontario with fields such as location, tank status, license date, tank type, tank capacity, fuel type, installation year and facility type.

Government Publication Date: Feb 28, 2017

Fuel Storage Tank - Historic:

Provincial

FSTH

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks. Public records of private fuel storage tanks are only available since the registration became effective in September 1989. This information is now collected by the Technical Standards and Safety Authority.

Government Publication Date: Pre-Jan 2010*

Ontario Regulation 347 Waste Generators Summary:

Provincial

GEN

Regulation 347 of the Ontario EPA defines a waste generation site as any site, equipment and/or operation involved in the production, collection, handling and/or storage of regulated wastes. A generator of regulated waste is required to register the waste generation site and each waste produced, collected, handled, or stored at the site. This database contains the registration number, company name and address of registered generators including the types of hazardous wastes generated. It includes data on waste generating facilities such as: drycleaners, waste treatment and disposal facilities, machine shops, electric power distribution etc. This information is a summary of all years from 1986 including the most currently available data. Some records may contain, within the company name, the phrase "See & Use..." followed by a series of letters and numbers. This occurs when one company is amalgamated with or taken over by another registered company. The number listed as "See & Use", refers to the new ownership and the other identification number refers to the original ownership. This phrase serves as a link between the 2 companies until operations have been fully transferred.

Government Publication Date: 1986-Jun 2017

Greenhouse Gas Emissions from Large Facilities:

Federal

GHG

List of greenhouse gas emissions from large facilities made available by Environment Canada. Greenhouse gas emissions in kilotonnes of carbon dioxide equivalents (kt CO₂ eq).

Government Publication Date: 2013-Dec 2015

TSSA Historic Incidents:

Provincial

HINC

This database will cover all incidences recorded by TSSA with their older system, before they moved to their new management system. TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. The TSSA works to protect the public, the environment and property from fuel-related hazards such as spills, fires and explosions. This database will include spills and leaks from pipelines, diesel, fuel oil, gasoline, natural gas, propane and hydrogen recorded by the TSSA.

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks:

Federal

IAFT

The Department of Indian & Northern Affairs Canada (INAC) maintains an inventory of aboveground & underground fuel storage tanks located on both federal and crown land. Our inventory provides information on the reserve name, location, facility type, site/facility name, tank type, material & ID number, tank contents & capacity, and date of tank installation.

Government Publication Date: 1950-Aug 2003*

TSSA Incidents:

Provincial

INC

TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. Includes incidents from fuel-related hazards such as spills, fires and explosions. This database will include spills and leaks from diesel, fuel oil, gasoline, natural gas, propane and hydrogen recorded by the TSSA.

Government Publication Date: Feb 28, 2017

Landfill Inventory Management Ontario:

Provincial

LIMO

The Landfill Inventory Management Ontario (LIMO) database is updated every year, as the ministry compiles new and updated information. The inventory will include small and large landfills. Additionally, each year the ministry will request operators of the larger landfills complete a landfill data collection form that will be used to update LIMO and will include the following information from the previous operating year. This will include additional information such as estimated amount of total waste received, landfill capacity, estimated total remaining landfill capacity, fill rates, engineering designs, reporting and monitoring details, size of location, service area, approved waste types, leachate of site treatment, contaminant attenuation zone and more. The small landfills will include information such as site owner, site location and certificate of approval # and status.

Government Publication Date: Dec 31, 2013

Canadian Mine Locations:

Private

MINE

This information is collected from the Canadian & American Mines Handbook. The Mines database is a national database that provides over 290 listings on mines (listed as public companies) dealing primarily with precious metals and hard rocks. Listed are mines that are currently in operation, closed, suspended, or are still being developed (advanced projects). Their locations are provided as geographic coordinates (x, y and/or longitude, latitude). As of 2002, data pertaining to Canadian smelters and refineries has been appended to this database.

Government Publication Date: 1998-2009*

Mineral Occurrences:

Provincial

MNR

In the early 70's, the Ministry of Northern Development and Mines created an inventory of approximately 19,000 mineral occurrences in Ontario, in regard to metallic and industrial minerals, as well as some information on building stones and aggregate deposits. Please note that the "Horizontal Positional Accuracy" is approximately +/- 200 m. Many reference elements for each record were derived from field sketches using pace or chain/tape measurements against claim posts or topographic features in the area. The primary limiting factor for the level of positional accuracy is the scale of the source material. The testing of horizontal accuracy of the source materials was accomplished by comparing the plan metric (X and Y) coordinates of that point with the coordinates of the same point as defined from a source of higher accuracy.

Government Publication Date: 1846-Feb 2017

National Analysis of Trends in Emergencies System (NATES):

Federal

NATE

In 1974 Environment Canada established the National Analysis of Trends in Emergencies System (NATES) database, for the voluntary reporting of significant spill incidents. The data was to be used to assist in directing the work of the emergencies program. NATES ran from 1974 to 1994. Extensive information is available within this database including company names, place where the spill occurred, date of spill, cause, reason and source of spill, damage incurred, and amount, concentration, and volume of materials released.

Government Publication Date: 1974-1994*

Non-Compliance Reports:

Provincial

NCPL

The Ministry of the Environment provides information about non-compliant discharges of contaminants to air and water that exceed legal allowable limits, from regulated industrial and municipal facilities. A reported non-compliance failure may be in regard to a Control Order, Certificate of Approval, Sectoral Regulation or specific regulation/act.

Government Publication Date: Dec 31, 2014

National Defense & Canadian Forces Fuel Tanks:

Federal

NDFT

The Department of National Defense and the Canadian Forces maintains an inventory of all aboveground & underground fuel storage tanks located on DND lands. Our inventory provides information on the base name, location, tank type & capacity, tank contents, tank class, date of tank installation, date tank last used, and status of tank as of May 2001. This database will no longer be updated due to the new National Security protocols which have prohibited any release of this database.

Government Publication Date: Up to May 2001*

National Defense & Canadian Forces Spills:

Federal

NDSP

The Department of National Defense and the Canadian Forces maintains an inventory of spills to land and water. All spill sites have been classified under the "Transportation of Dangerous Goods Act - 1992". Our inventory provides information on the facility name, location, spill ID #, spill date, type of spill, as well as the quantity of substance spilled & recovered.

Government Publication Date: Mar 1999-Aug 2010

National Defence & Canadian Forces Waste Disposal Sites:

Federal

NDWD

The Department of National Defence and the Canadian Forces maintains an inventory of waste disposal sites located on DND lands. Where available, our inventory provides information on the base name, location, type of waste received, area of site, depth of site, year site opened/closed and status.

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents:

Federal

NEBI

Locations of pipeline incidents from 2008 to present, made available by the National Energy Board (NEB). Includes incidents reported under the Onshore Pipeline Regulations and the Processing Plant Regulations related to pipelines under federal jurisdiction, does not include incident data related to pipelines under provincial or territorial jurisdiction.

Government Publication Date: 2008 -Jun 2017

National Energy Board Wells:

Federal

NEBW

The NEBW database contains information on onshore & offshore oil and gas wells that are outside provincial jurisdiction(s) and are thereby regulated by the National Energy Board. Data is provided regarding the operator, well name, well ID No./UWI, status, classification, well depth, spud and release date.

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES):

Federal

NEES

In 2000, the Emergencies program implemented NEES, a reporting system for spills of hazardous substances. For the most part, this system only captured data from the Atlantic Provinces, some from Quebec and Ontario and a portion from British Columbia. Data for Alberta, Saskatchewan, Manitoba and the Territories was not captured. However, NEES is also a repository for previous Environment Canada spill datasets. NEES is composed of the historic datasets ' or Trends ' which dates from approximately 1974 to present. NEES Trends is a compilation of historic databases, which were merged and includes data from NATES (National Analysis of Trends in Emergencies System), ARTS (Atlantic Regional Trends System), and NEES. In 2001, the Emergencies Program determined that variations in reporting regimes and requirements between federal and provincial agencies made national spill reporting and trend analysis difficult to achieve. As a consequence, the department has focused efforts on capturing data on spills of substances which fall under its legislative authority only (CEPA and FA). As such, the NEES database will be decommissioned in December 2004.

Government Publication Date: 1974-2003***National PCB Inventory:**

Federal

NPCB

Environment Canada's National PCB inventory includes information on in-use PCB containing equipment in Canada including federal, provincial and private facilities. Federal out-of-service PCB containing equipment and PCB waste owned by the federal government or by federally regulated industries such as airlines, railway companies, broadcasting companies, telephone and telecommunications companies, pipeline companies, etc. are also listed. Although it is not Environment Canada's mandate to collect data on non-federal PCB waste, the National PCB inventory includes some information on provincial and private PCB waste and storage sites. Some addresses provided may be Head Office addresses and are not necessarily the location of where the waste is being used or stored.

Government Publication Date: 1988-2008***National Pollutant Release Inventory:**

Federal

NPRI

Environment Canada has defined the National Pollutant Release Inventory ("NPRI") as a federal government initiative designed to collect comprehensive national data regarding releases to air, water, or land, and waste transfers for recycling for more than 300 listed substances.

Government Publication Date: 1993-May 2017**Oil and Gas Wells:**

Private

OGW

The Nickle's Energy Group (publisher of the Daily Oil Bulletin) collects information on drilling activity including operator and well statistics. The well information database includes name, location, class, status and depth. The main Nickle's database is updated on a daily basis, however, this database is updated on a monthly basis. More information is available at www.nickles.com.

Government Publication Date: 1988-Sep 2017**Ontario Oil and Gas Wells:**

Provincial

OOGW

In 1998, the MNR handed over to the Ontario Oil, Gas and Salt Resources Corporation, the responsibility of maintaining a database of oil and gas wells drilled in Ontario. The OGSR Library has over 20,000+ wells in their database. Information available for all wells in the ERIS database include well owner/operator, location, permit issue date, and well cap date, license No., status, depth and the primary target (rock unit) of the well being drilled. All geology/stratigraphy table information, plus all water table information is also provide for each well record.

Government Publication Date: 1800-Oct 2017**Inventory of PCB Storage Sites:**

Provincial

OPCB

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of PCB storage sites within the province. Ontario Regulation 11/82 (Waste Management - PCB) and Regulation 347 (Generator Waste Management) under the Ontario EPA requires the registration of inactive PCB storage equipment and/or disposal sites of PCB waste with the Ontario Ministry of Environment. This database contains information on: 1) waste quantities; 2) major and minor sites storing liquid or solid waste; and 3) a waste storage inventory.

Government Publication Date: 1987-Oct 2004; 2012-Dec 2013**Orders:**

Provincial

ORD

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all Orders on the registry such as (EPA s. 17) - Order for remedial work, (EPA s. 18) - Order for preventative measures, (EPA s. 43) - Order for removal of waste and restoration of site, (EPA s. 44) - Order for conformity with Act for waste disposal sites, (EPA s. 136) - Order for performance of environmental measures.

Government Publication Date: 1994-Oct 2017**Canadian Pulp and Paper:**

Private

PAP

This information is part of the Pulp and Paper Canada Directory. The Directory provides a comprehensive listing of the locations of pulp and paper mills and the products that they produce.

Government Publication Date: 1999, 2002, 2004, 2005, 2009**Parks Canada Fuel Storage Tanks:**

Federal

PCFT

Canadian Heritage maintains an inventory of known fuel storage tanks operated by Parks Canada, in both National Parks and at National Historic Sites. The database details information on site name, location, tank install/removal date, capacity, fuel type, facility type, tank design and owner/operator.

Government Publication Date: 1920-Jan 2005*

Pesticide Register:

Provincial PES

The Ontario Ministry of the Environment and Climate Change maintains a database of licensed operators and vendors of registered pesticides.

Government Publication Date: 1988-Aug 2017

TSSA Pipeline Incidents:

Provincial PINC

TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. This database will include spills, strike and leaks from recorded by the TSSA.

Government Publication Date: Feb 28, 2017

Private and Retail Fuel Storage Tanks:

Provincial PRT

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks and licensed retail fuel outlets. This database includes an inventory of locations that have gasoline, oil, waste oil, natural gas and/or propane storage tanks on their property. The MCCR no longer collects this information. This information is now collected by the Technical Standards and Safety Authority (TSSA).

Government Publication Date: 1989-1996*

Permit to Take Water:

Provincial PTTW

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all PTTW's on the registry such as OWRA s. 34 - Permit to take water.

Government Publication Date: 1994-Oct 2017

Ontario Regulation 347 Waste Receivers Summary:

Provincial REC

Part V of the Ontario Environmental Protection Act ("EPA") regulates the disposal of regulated waste through an operating waste management system or a waste disposal site operated or used pursuant to the terms and conditions of a Certificate of Approval or a Provisional Certificate of Approval. Regulation 347 of the Ontario EPA defines a waste receiving site as any site or facility to which waste is transferred by a waste carrier. A receiver of regulated waste is required to register the waste receiving facility. This database represents registered receivers of regulated wastes, identified by registration number, company name and address, and includes receivers of waste such as: landfills, incinerators, transfer stations, PCB storage sites, sludge farms and water pollution control plants. This information is a summary of all years from 1986 including the most currently available data.

Government Publication Date: 1986-2016

Record of Site Condition:

Provincial RSC

The Record of Site Condition (RSC) is part of the Ministry of the Environment's Brownfields Environmental Site Registry. Protection from environmental cleanup orders for property owners is contingent upon documentation known as a record of site condition (RSC) being filed in the Environmental Site Registry. In order to file an RSC, the property must have been properly assessed and shown to meet the soil, sediment and groundwater standards appropriate for the use (such as residential) proposed to take place on the property. The Record of Site Condition Regulation (O. Reg. 153/04) details requirements related to site assessment and clean up.

RSCs filed after July 1, 2011 will also be included as part of the new (O.Reg. 511/09).

Government Publication Date: 1997-Sept 2001, Oct 2004-Aug 2017

Retail Fuel Storage Tanks:

Private RST

This database includes an inventory of retail fuel outlet locations (including marinas) that have on their property gasoline, oil, waste oil, natural gas and / or propane storage tanks.

Government Publication Date: 1999-May 2017

Scott's Manufacturing Directory:

Private SCT

Scott's Directories is a data bank containing information on over 200,000 manufacturers across Canada. Even though Scott's listings are voluntary, it is the most comprehensive database of Canadian manufacturers available. Information concerning a company's address, plant size, and main products are included in this database.

Government Publication Date: 1992-Mar 2011*

Ontario Spills:

Provincial SPL

This database identifies information such as location (approximate), type and quantity of contaminant, date of spill, environmental impact, cause, nature of impact, etc. Information from 1988-2002 was part of the ORIS (Occurrence Reporting Information System). The SAC (Spills Action Centre) handles all spills reported in Ontario. Regulations for spills in Ontario are part of the MOE's Environmental Protection Act, Part X.

Government Publication Date: 1988-Jun 2017

Wastewater Discharger Registration Database:

Provincial

SRDS

Information under this heading is combination of the following 2 programs. The Municipal/Industrial Strategy for Abatement (MISA) division of the Ontario Ministry of Environment maintained a database of all direct dischargers of toxic pollutants within nine sectors including: Electric Power Generation; Mining; Petroleum Refining; Organic Chemicals; Inorganic Chemicals; Pulp & Paper; Metal Casting; Iron & Steel; and Quarries. All sampling information is now collected and stored within the Sample Result Data Store (SRDS).

Government Publication Date: 1990-2014

Anderson's Storage Tanks:

Private

TANK

The information provided in this database was collected by examining various historical documents, which identified the location of former storage tanks, containing substances such as fuel, water, gas, oil, and other various types of miscellaneous products. Information is available in regard to business operating at tank site, tank location, permit year, permit & installation type, no. of tanks installed & configuration and tank capacity. Data contained within this database pertains only to the city of Toronto and is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks:

Federal

TCFT

List of fuel storage tanks currently or previously owned or operated by Transport Canada. This inventory also includes tanks on The Pickering Lands, which refers to 7,530 hectares (18,600 acres) of land in Pickering, Markham, and Uxbridge owned by the Government of Canada since 1972; properties on this land has been leased by the government since 1975, and falls under the Site Management Policy of Transport Canada, but is administered by Public Works and Government Services Canada. This inventory provides information on the site name, location, tank age, capacity and fuel type.

Government Publication Date: 1970-Aug 2017

TSSA Variances for Abandonment of Underground Storage Tanks:

Provincial

VAR

List of variances granted for abandoned tanks. Under the Technical Standards and Safety Authority (TSSA) Liquid Fuels Handling Code and Fuel Oil Code, all underground storage tanks must be removed within two years of disuse. If removal of a tank is not feasible, an application may be sought for a variance from this code requirement.

Government Publication Date: Feb 28, 2017

Waste Disposal Sites - MOE CA Inventory:

Provincial

WDS

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of known open (active or inactive) and closed disposal sites in the Province of Ontario. Active sites maintain a Certificate of Approval, are approved to receive and are receiving waste. Inactive sites maintain Certificate(s) of Approval but are not receiving waste. Closed sites are not receiving waste. The data contained within this database was compiled from the MOE's Certificate of Approval database. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number. All new Environmental Compliance Approvals handed out after Oct 31, 2011 for Waste Disposal Sites will still be found in this database.

Government Publication Date: Oct 31, 2017

Waste Disposal Sites - MOE 1991 Historical Approval Inventory:

Provincial

WDSH

In June 1991, the Ontario Ministry of Environment, Waste Management Branch, published the "June 1991 Waste Disposal Site Inventory", of all known active and closed waste disposal sites as of October 30st, 1990. For each "active" site as of October 31st 1990, information is provided on site location, site/CA number, waste type, site status and site classification. For each "closed" site as of October 31st 1990, information is provided on site location, site/CA number, closure date and site classification. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number.

Government Publication Date: Up to Oct 1990*

Water Well Information System:

Provincial

WWIS

This database describes locations and characteristics of water wells found within Ontario in accordance with Regulation 903. It includes such information as coordinates, construction date, well depth, primary and secondary use, pump rate, static water level, well status, etc. Also included are detailed stratigraphy information, approximate depth to bedrock and the approximate depth to the water table.

Government Publication Date: Mar 31, 2017

Definitions

Database Descriptions: This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

Detail Report: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

Distance: The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

Elevation: The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

Map Key: The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

Unplottables: These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

PHASE ONE ENVIRONMENTAL SITE ASSESSMENT 316 SOMERSET STREET EAST, OTTAWA, ON



APPENDIX B – ADDITIONAL INFORMATION



enviroscan



An SCM Company

175 Commerce Valley Drive W
Markham, Ontario L3T 7Z3

T: 905-882-6300
W: www.optaintel.ca

Report Completed By:

Anthony

Site Address:

316 Somerset Street East Ottawa ON

Project No:

20171214066

Opta Order ID:

44002

Requested by:

Eleanor Goolab
Ecolog ERIS

Date Completed:

12/21/2017 7:05:03 AM



Opta Historical Environmental Services EnviroscanTM Terms and Conditions

Report

The documents (hereinafter referred to as the "Documents") to be released as part of the report (hereinafter referred to as the "Report") to be delivered to the purchaser as set out above are documents in Opta's records relating to the described property (hereinafter referred to as the "Property"). Opta makes no representations or warranties respecting the Documents whatsoever, including, without limitation, with respect to the completeness, accuracy or usefulness of the Documents, and does not represent or warrant that these are the only plans and reports prepared in association with the Property or in Opta's possession at the time of Report delivery to the purchaser. The Documents are current as of the date(s) indicated on them. Interpretation of the Documents, if any, is by inference based upon the information which is apparent and obvious on the face of the Documents only. Opta does not represent, warrant or guarantee that interpretations other than those referred to do not exist from other sources. The Report will be prepared for use by the purchaser of the services as shown above hereof only.

Disclaimer

Opta disclaims responsibility for any losses or damages of any kind whatsoever, whether consequential or other, however caused, incurred or suffered, arising directly or indirectly as a result of the services (which services include, but are not limited to, the preparation of the Report provided hereunder), including but not limited to, any losses or damages arising directly or indirectly from any breach of contract, fundamental or otherwise, from reliance on Opta Reports or from any tortious acts or omissions of Opta's agents, employees or representatives.

Entire Agreement

The parties hereto acknowledge and agree to be bound by the terms and conditions hereof. The request form constitutes the entire agreement between the parties pertaining to the subject matter hereof and supersedes all prior and contemporaneous agreements, negotiations and discussions, whether oral or written, and there are no representations or warranties, or other agreements between the parties in connection with the subject matter hereof except as specifically set forth herein. No supplement, modification, waiver, or termination of the request shall be binding, unless confirmed in writing by the parties hereto.

Governing Document

In the event of any conflicts or inconsistencies between the provisions hereof and the Reports, the rights and obligations of the parties shall be deemed to be governed by the request form, which shall be the paramount document.

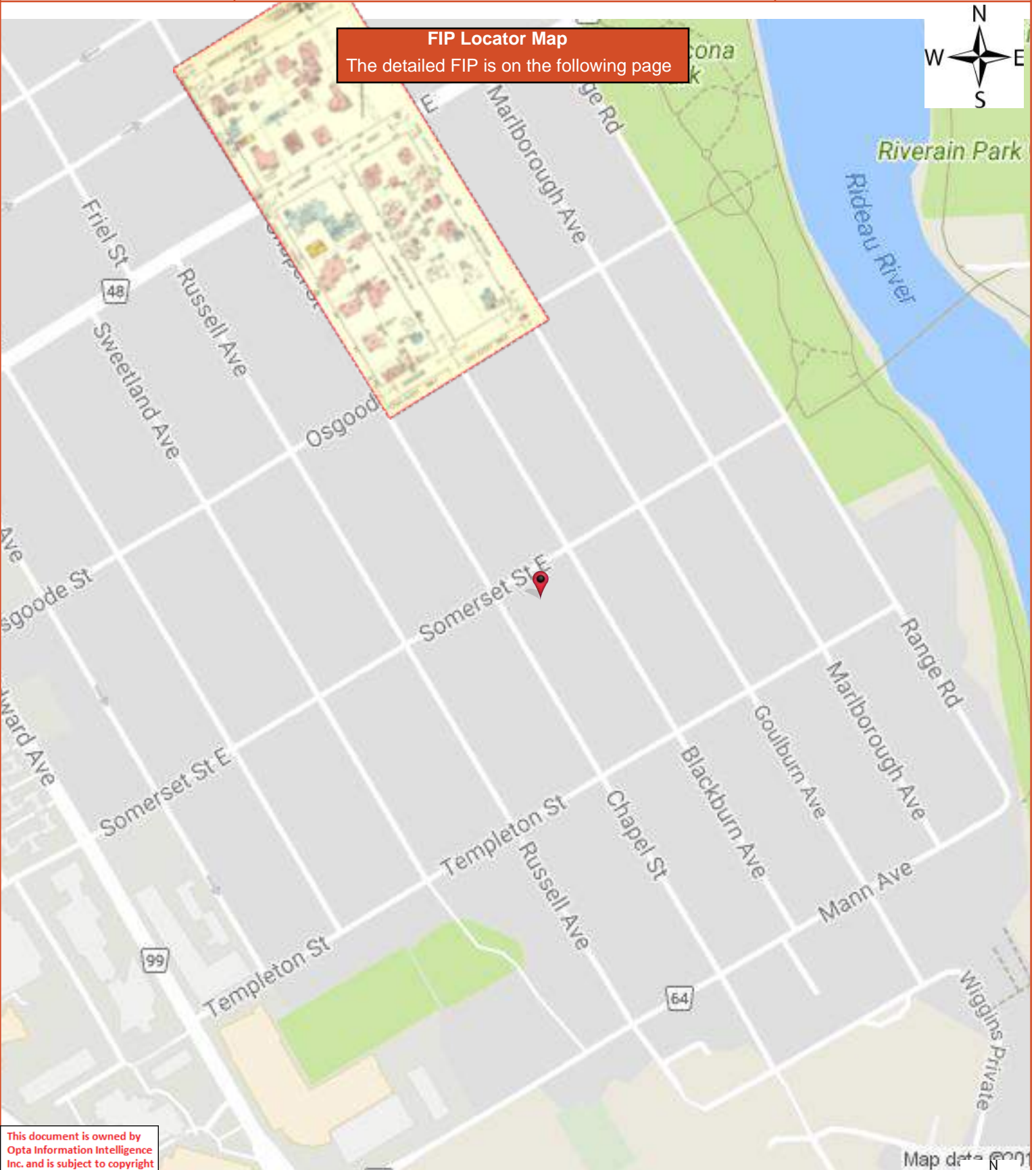
Law

This agreement shall be governed by and construed in accordance with the laws of the Province of Ontario and the laws of Canada applicable therein.

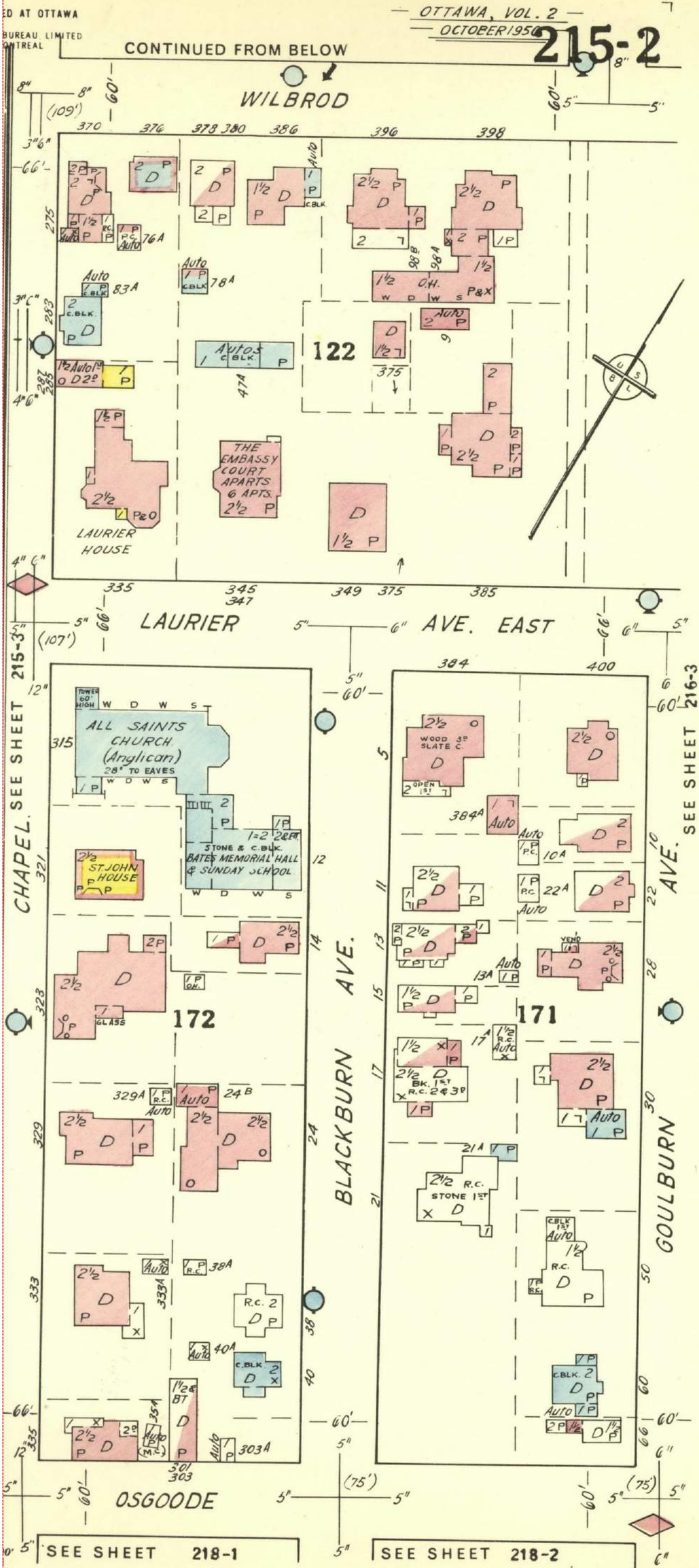
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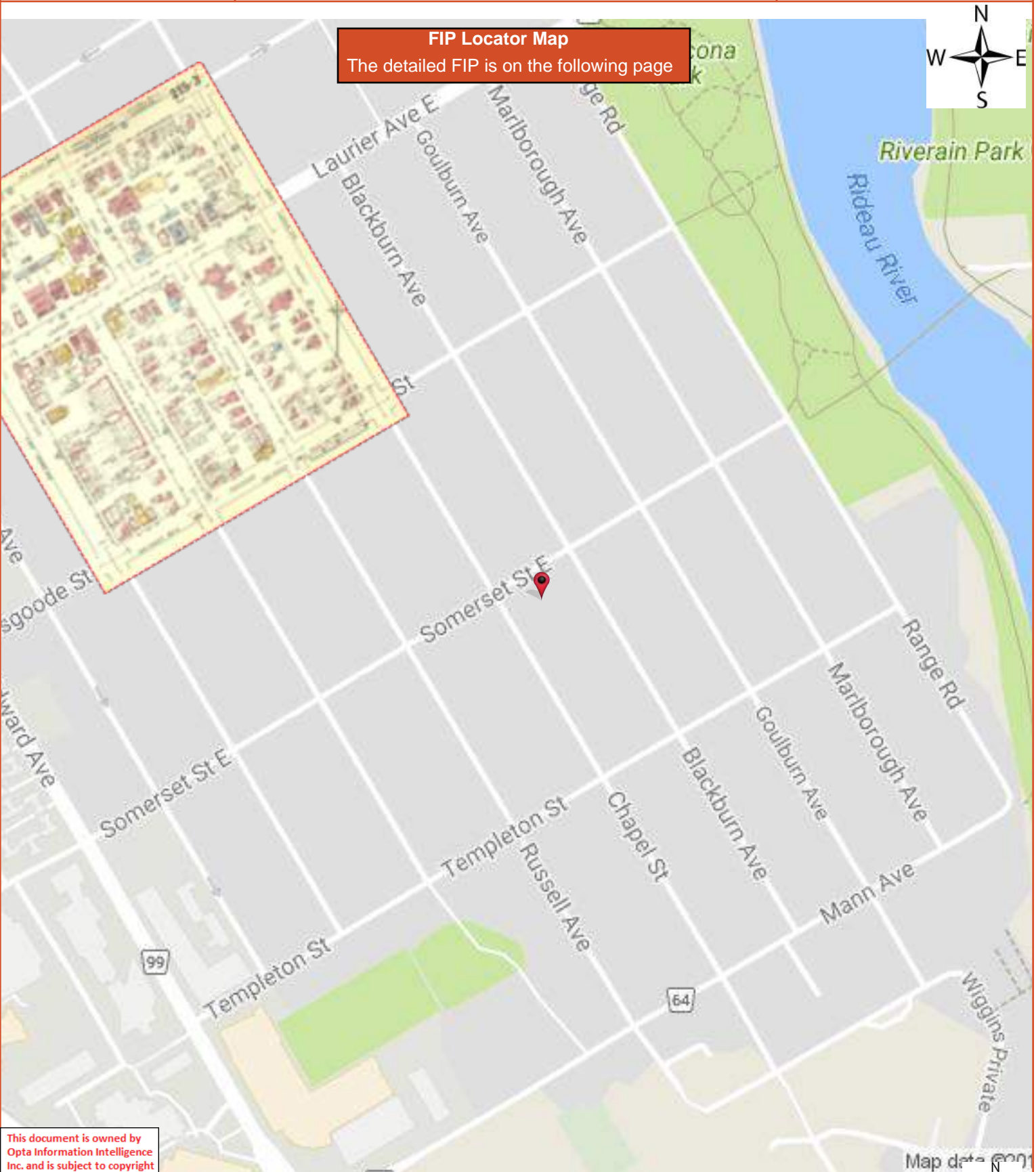
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8	(1958) Volume: Ottawa Volume 2 Firemap: 215-3
10	(1958) Volume: Ottawa Volume 2 Firemap: 216-3
12	(1958) Volume: Ottawa Volume 2 Firemap: 217-2
14	(1958) Volume: Ottawa Volume 2 Firemap: 217-4
16	(1958) Volume: Ottawa Volume 2 Firemap: 218-1
18	(1958) Volume: Ottawa Volume 2 Firemap: 218-2
20	(1958) Volume: Ottawa Volume 2 Firemap: 218-3
22	(1958) Volume: Ottawa Volume 2 Firemap: 218-4





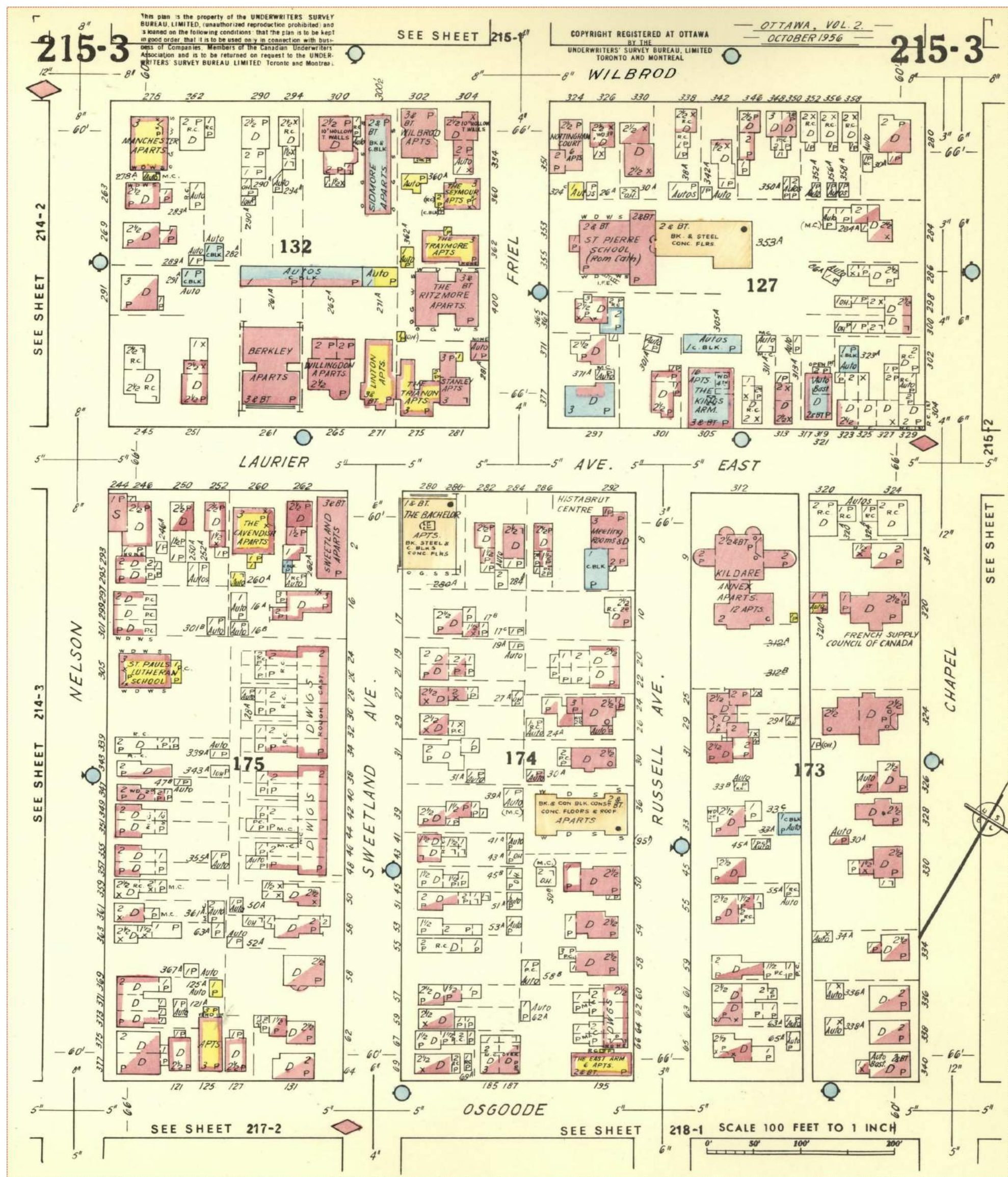
FIP Locator Map
The detailed FIP is on the following page

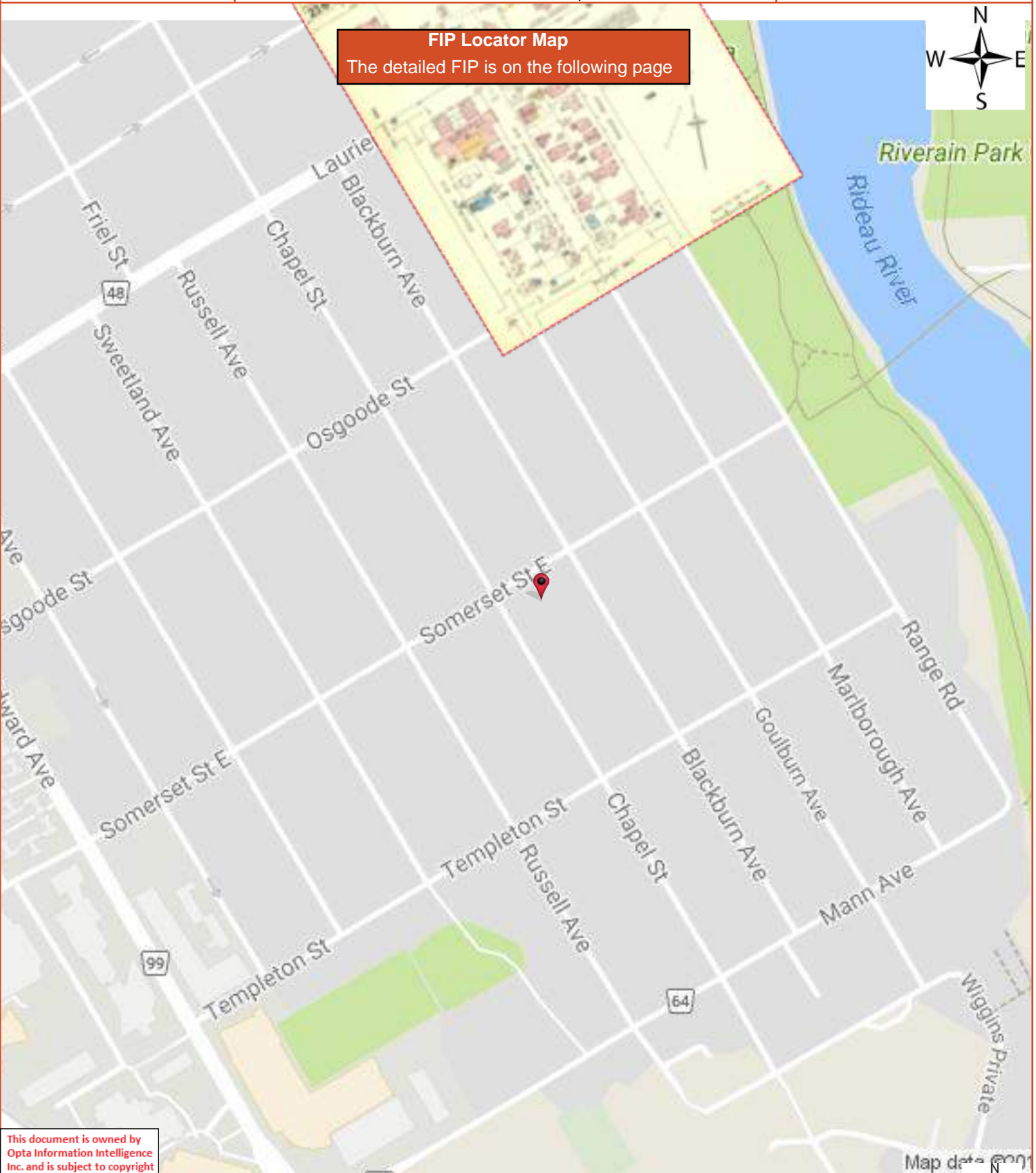




FIP Locator Map
The detailed FIP is on the following page

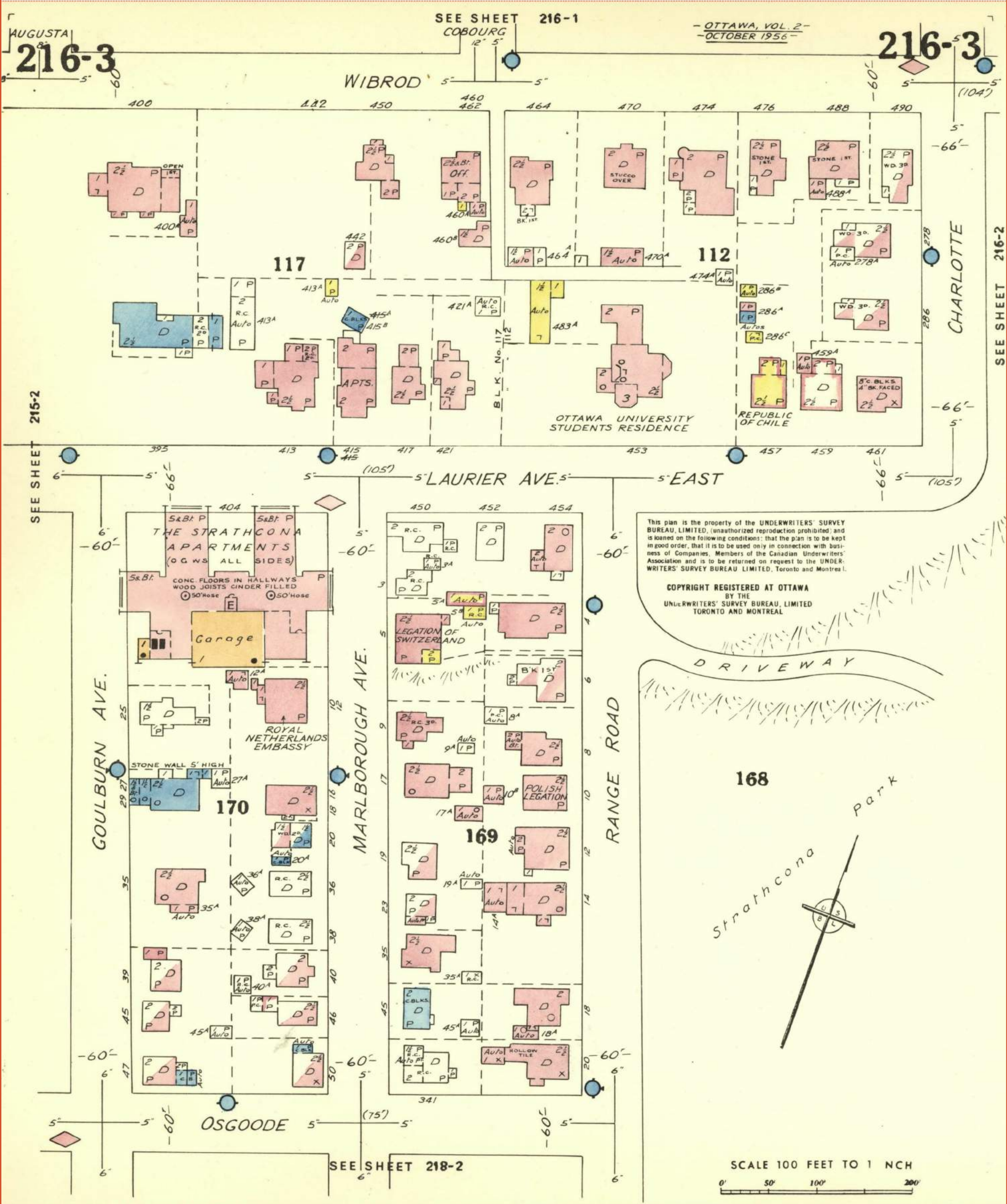


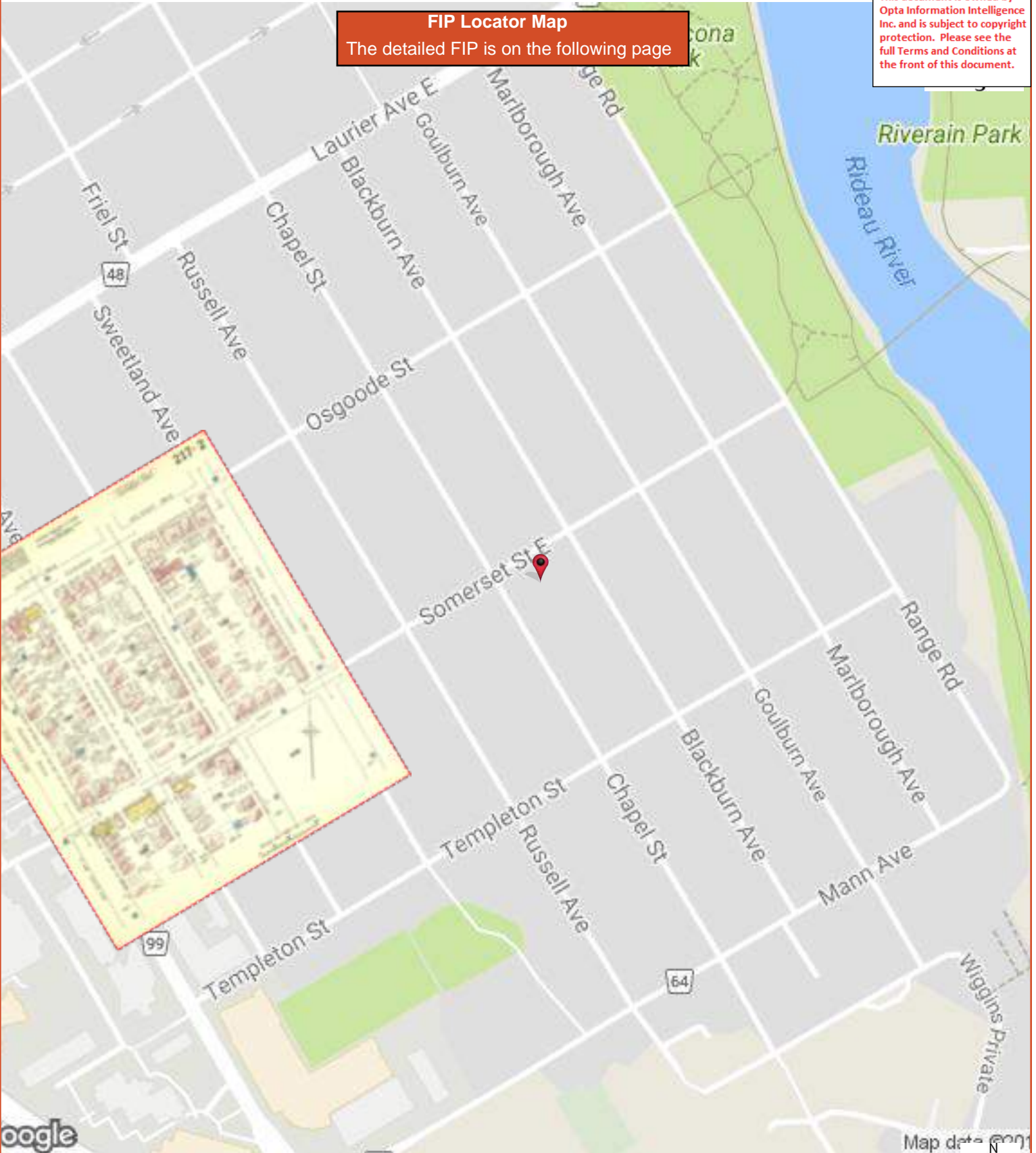


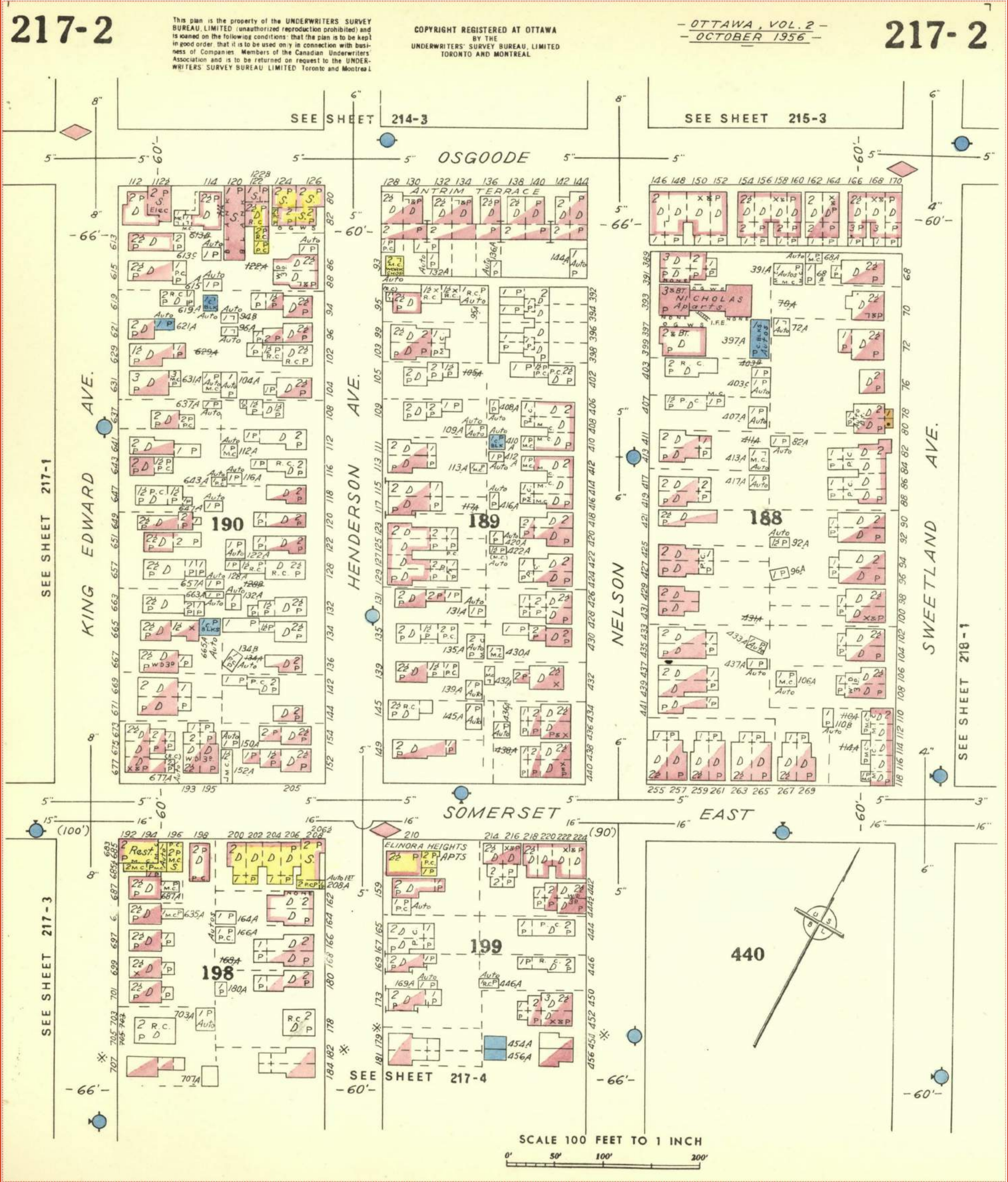


FIP Locator Map
The detailed FIP is on the following page

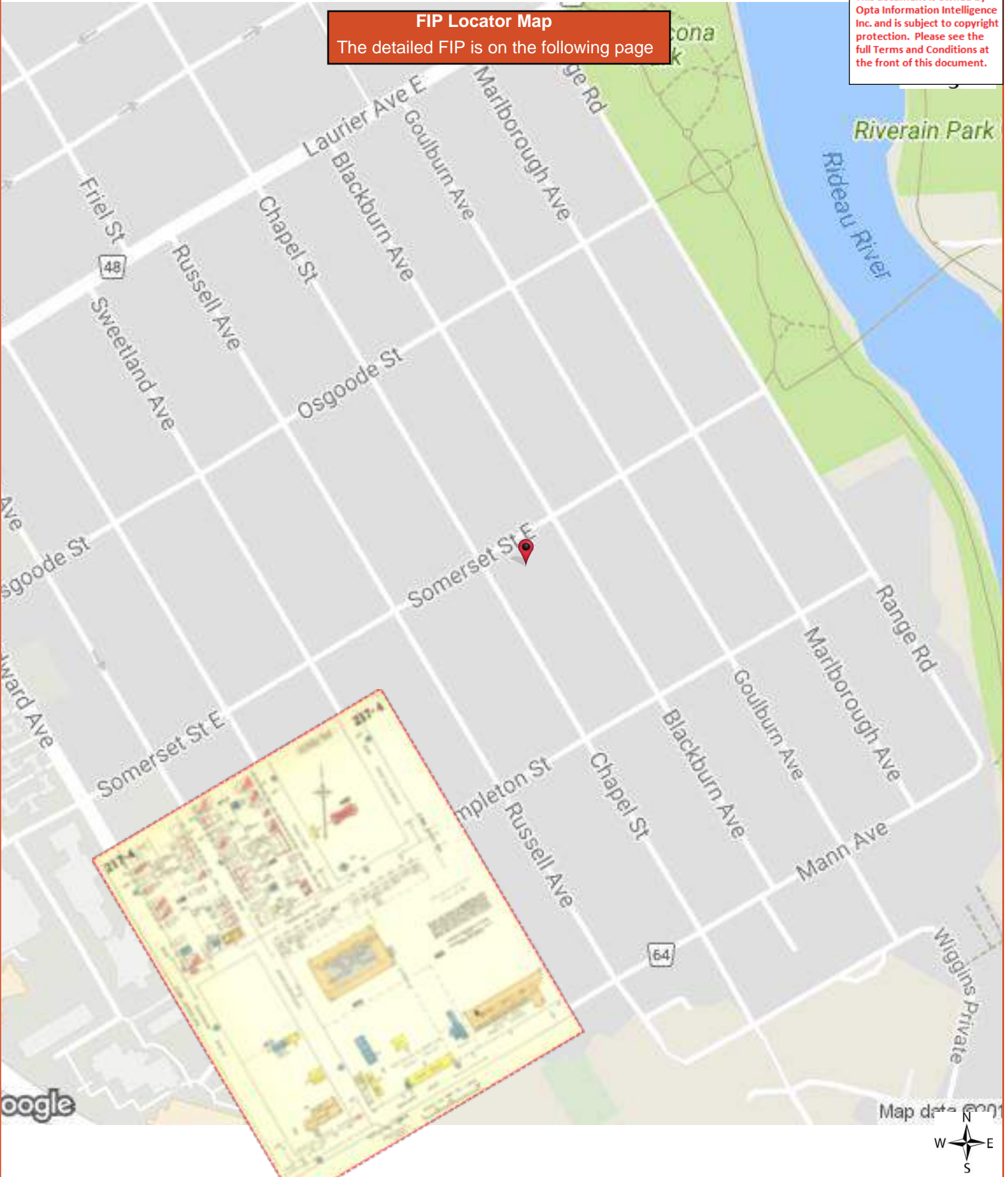


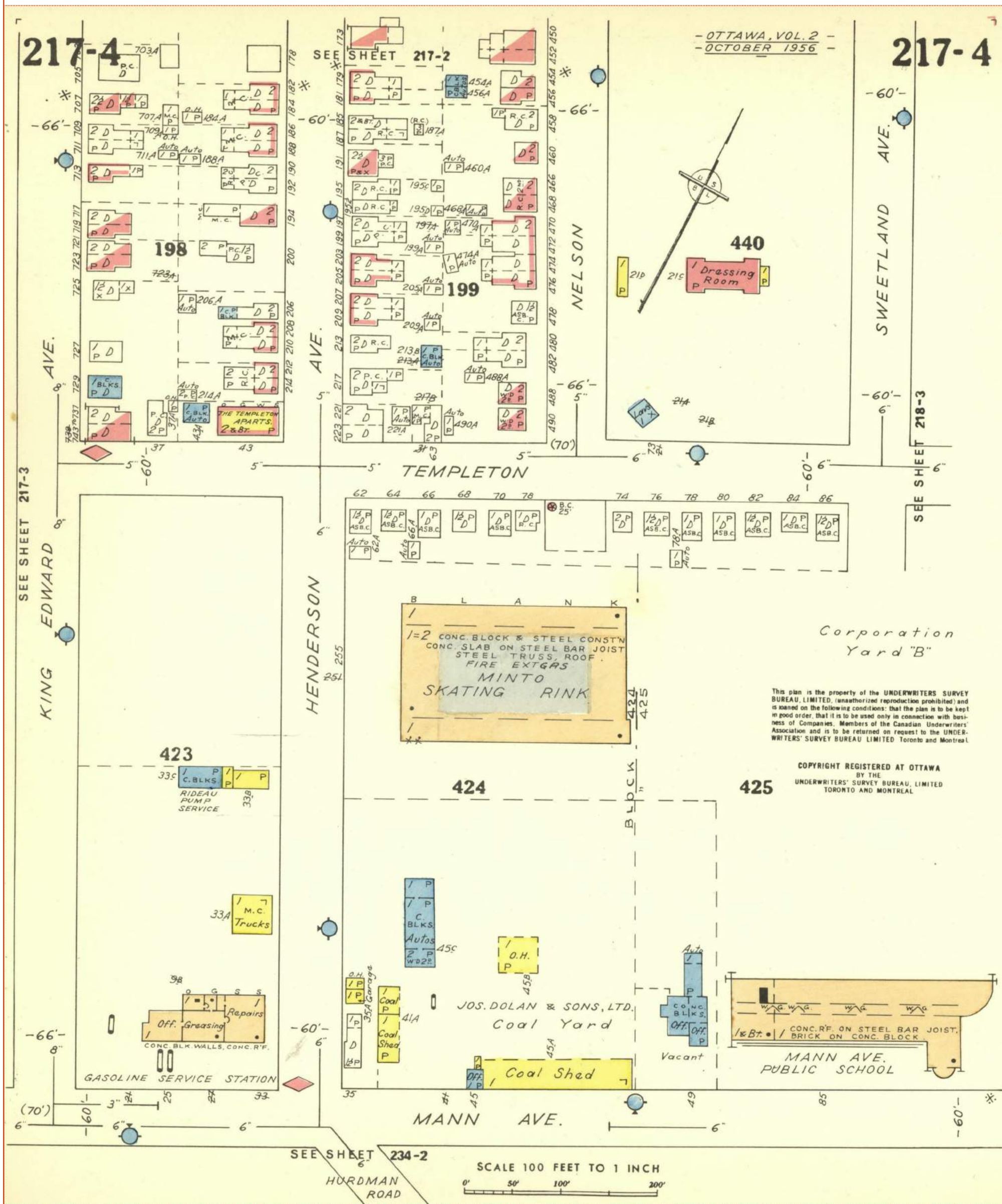


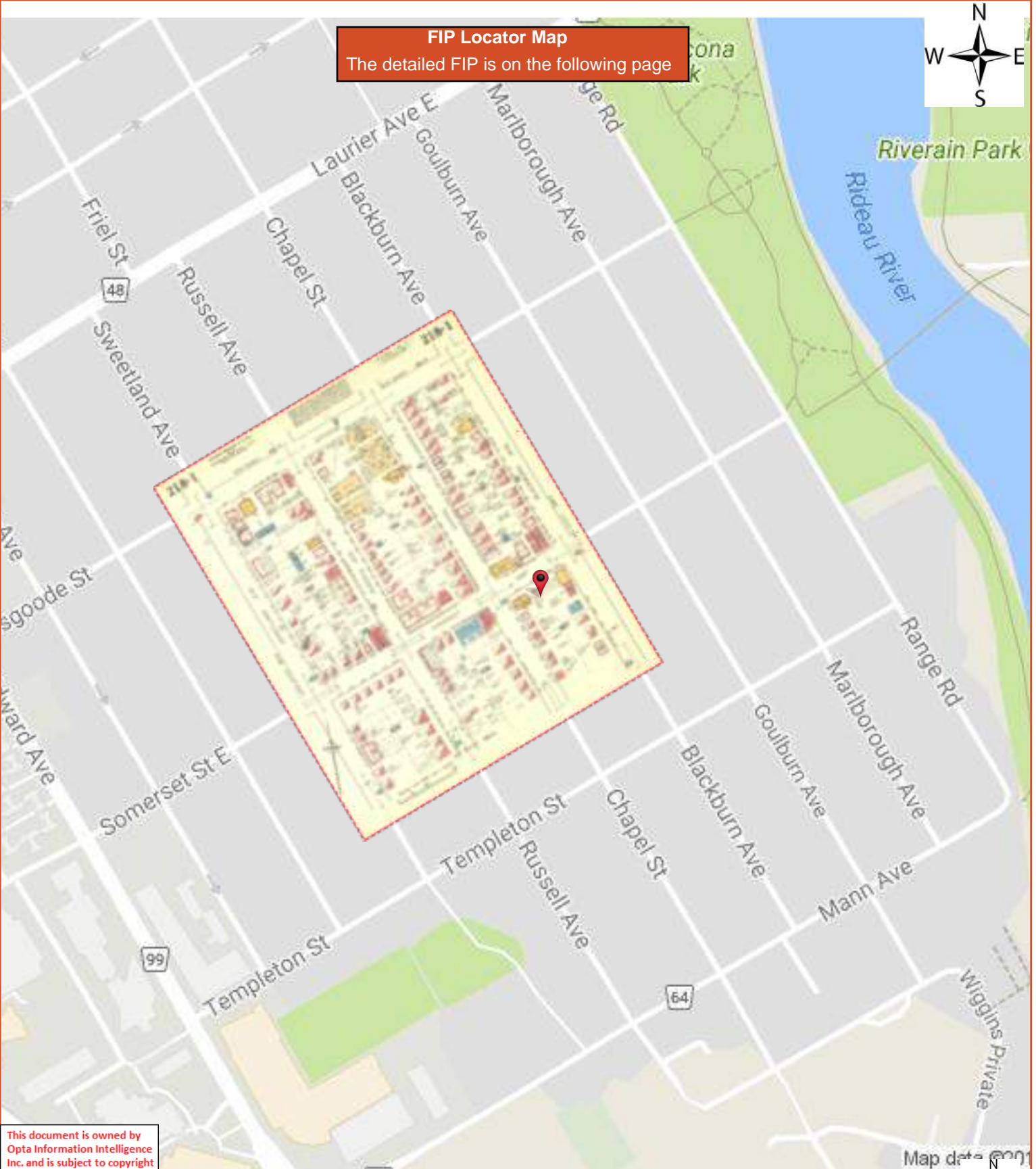


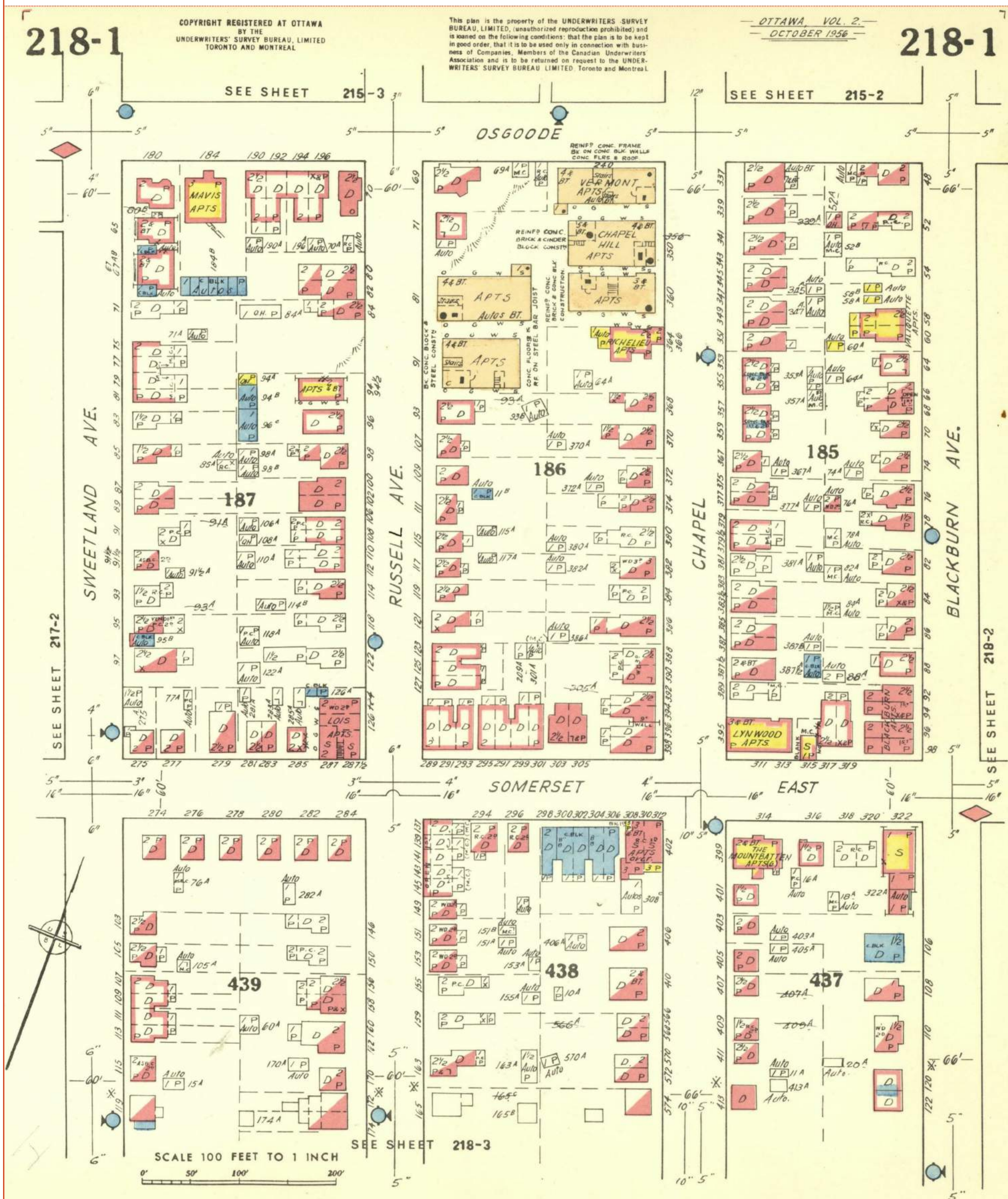


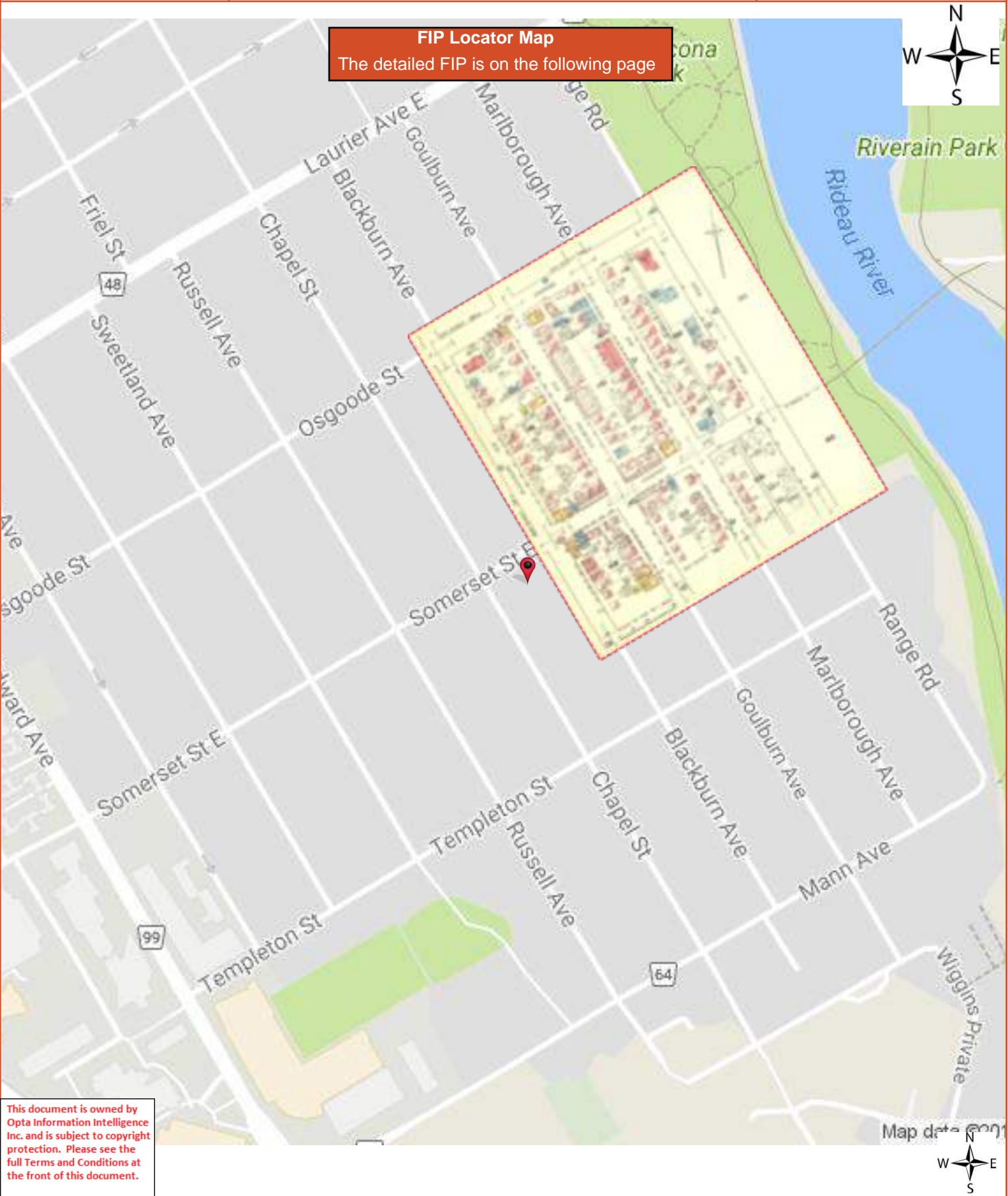
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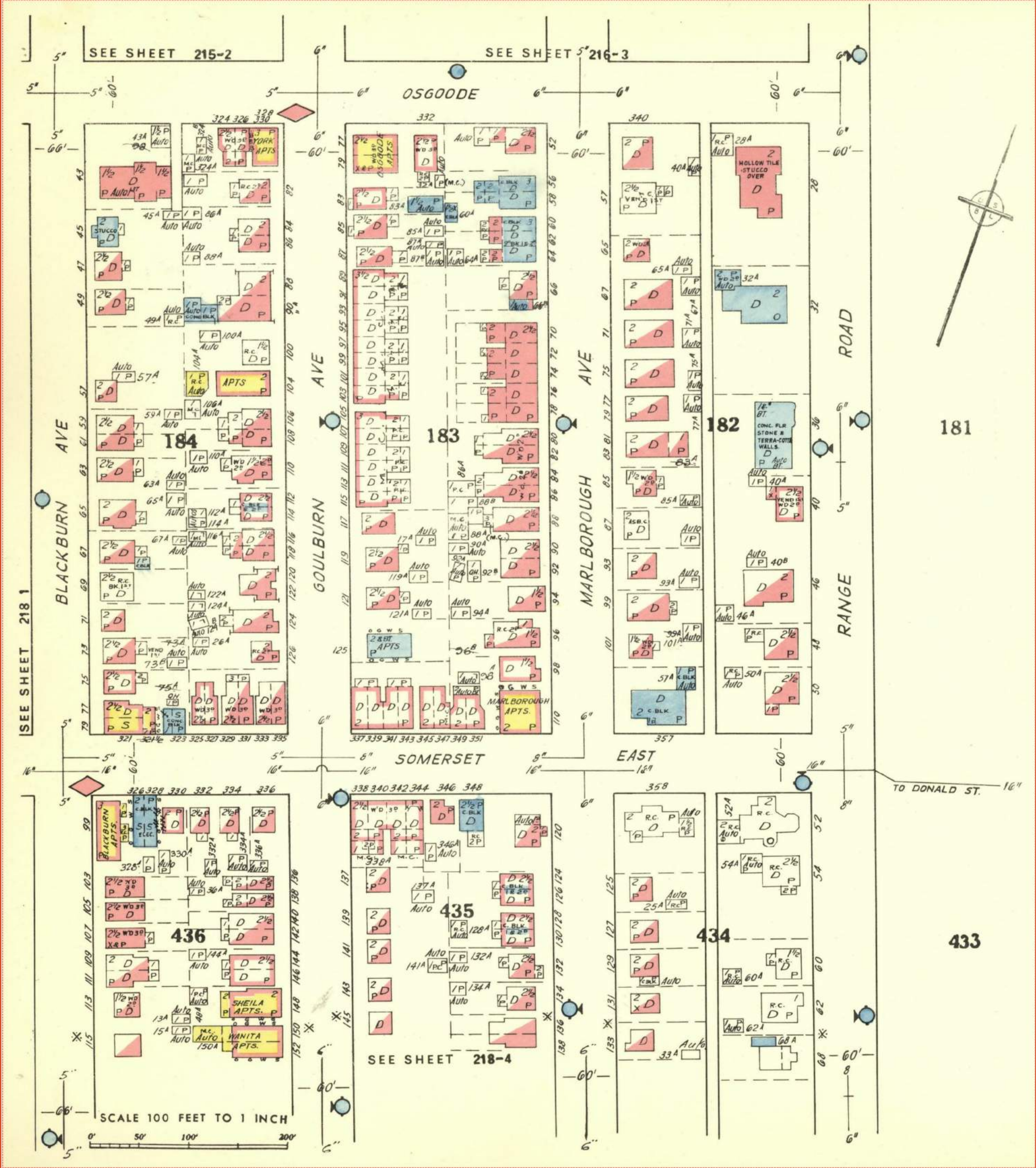








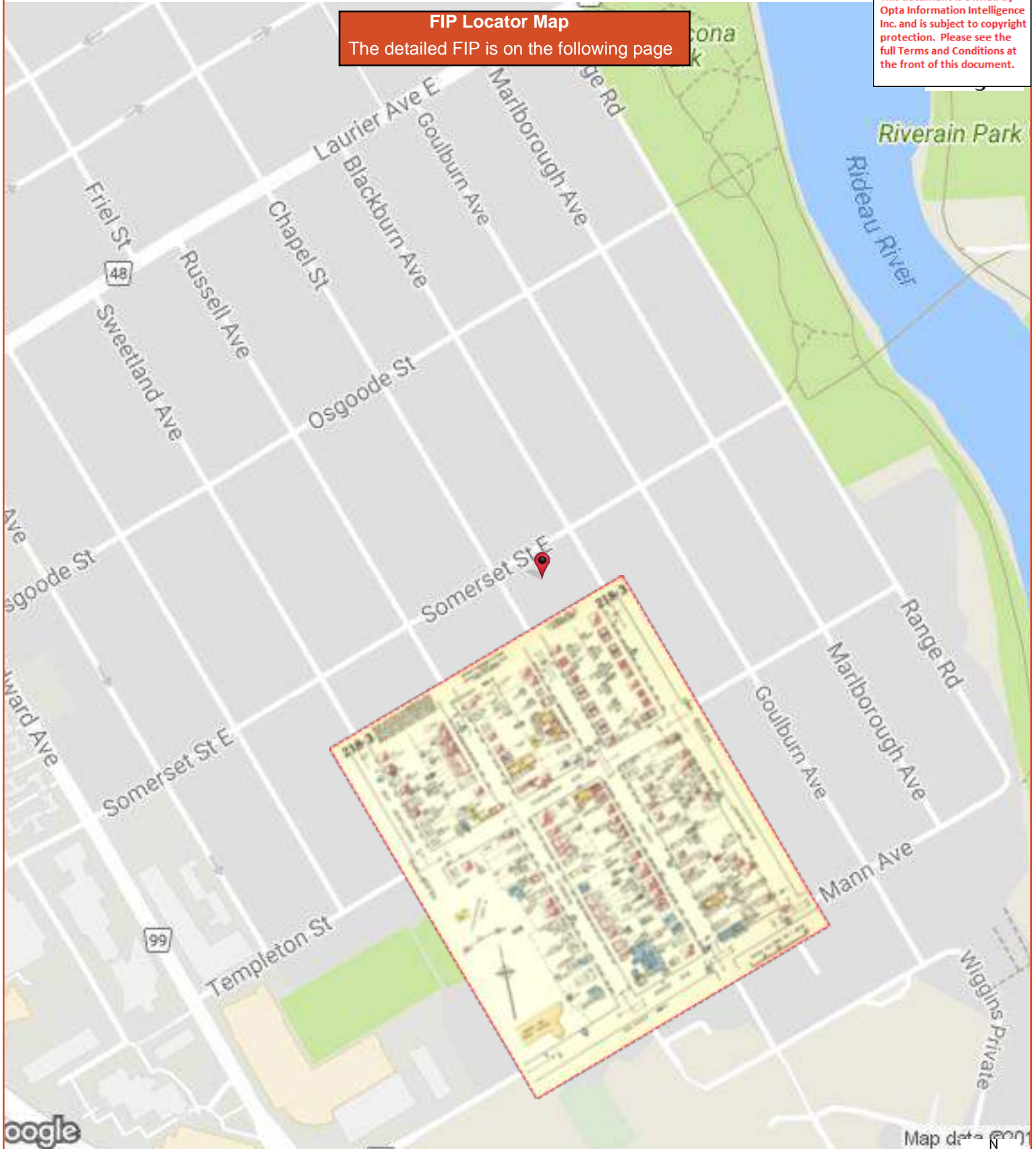


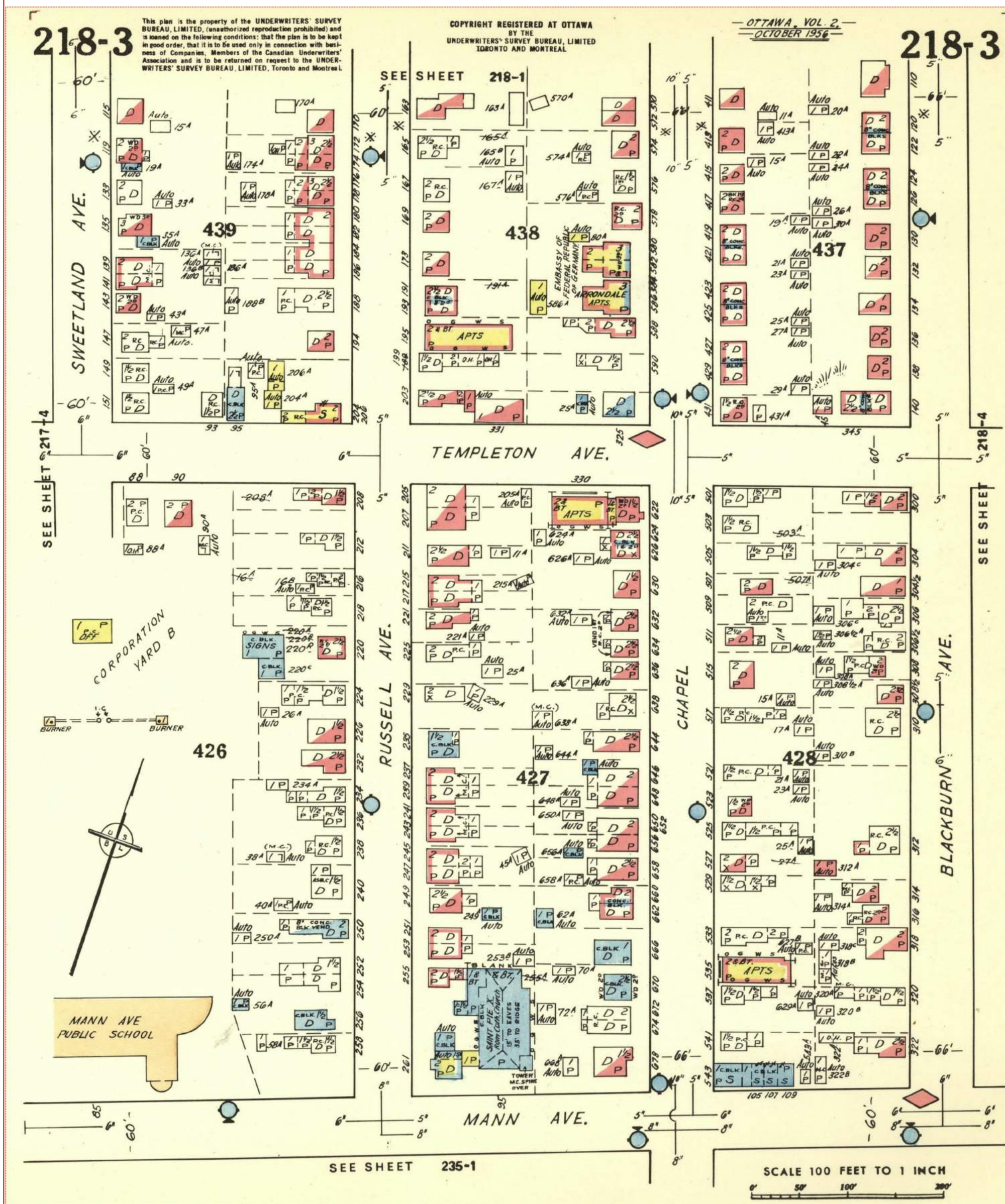


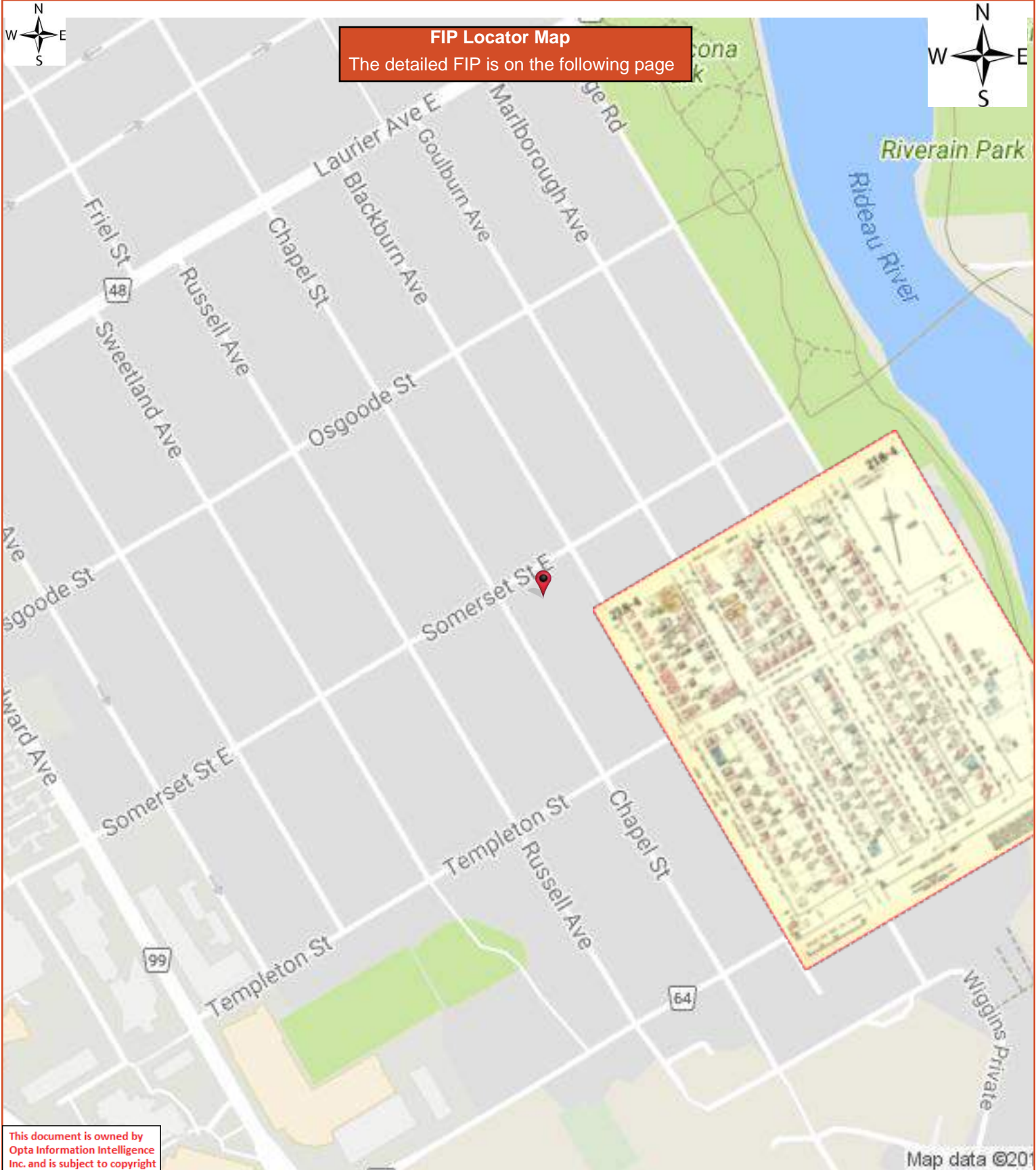
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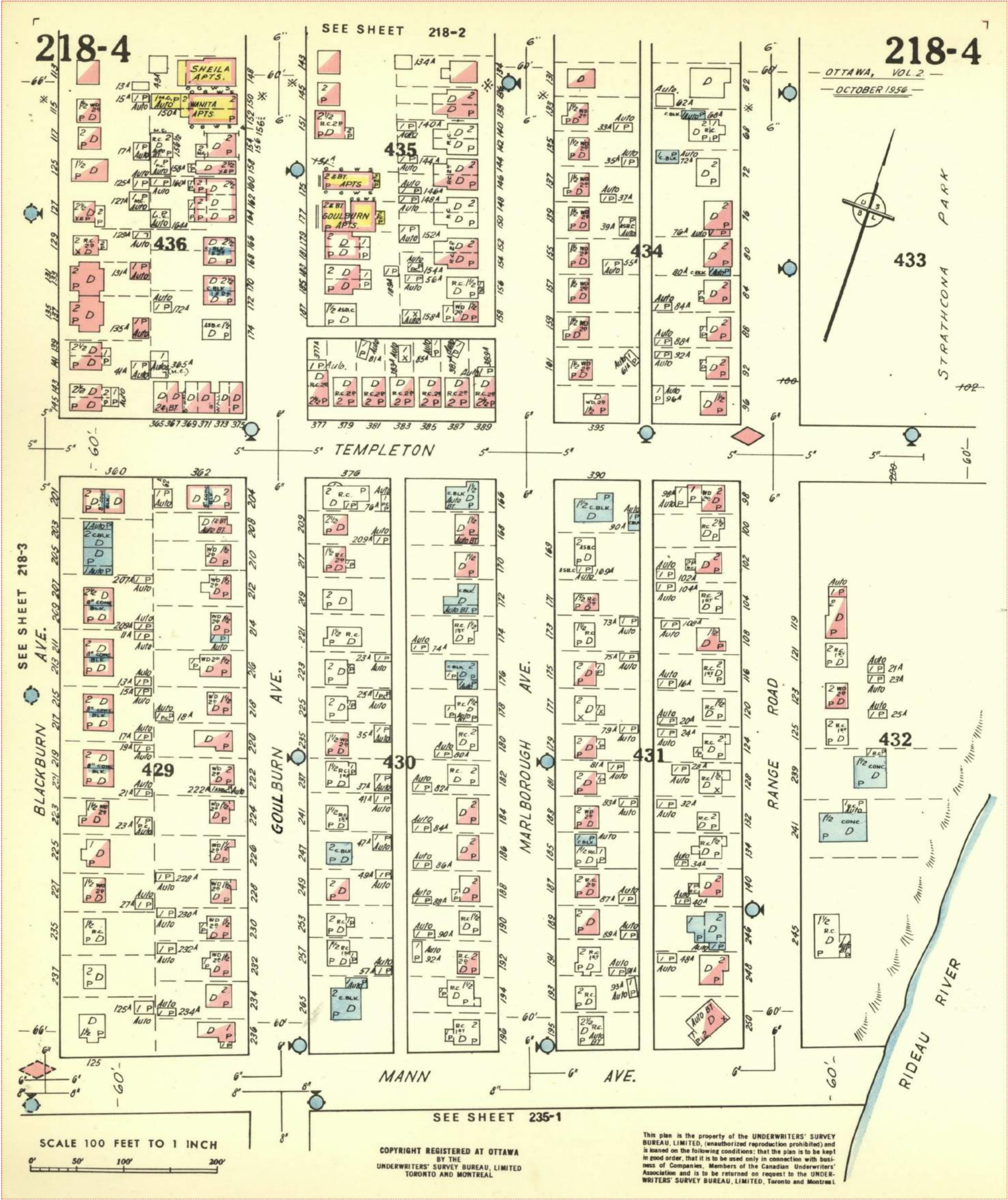
FIP Locator Map

The detailed FIP is on the following page









City Directory Information Source

Vernon's Ottawa and Area ON City Directory

PROJECT NUMBER: 20171214066	
Site Address:	316 Somerset Street East, Ottawa, Ontario
Year: 2011	
Site Listing:	-Res (2 tenants)
Adjacent Properties:	
Somerset Street East 314	-Res (4 tenants)
Somerset Street East 318	-Res (1 tenant)
Blackburn 92	-Res (1 tenant)
Chapel 395	(Chapel St) -Address Not Listed

PROJECT NUMBER: 20171214066	
Site Address:	316 Somerset Street East, Ottawa, Ontario
Year: 2005-2006	
Site Listing:	-Res (2 tenants)
Adjacent Properties:	
Somerset Street East 314	-Res (4 tenants)
Somerset Street East 318	-Res (1 tenant)
Blackburn 92	-Res (4 tenants)
Chapel 395	(Chapel St) -Res (5 tenants)

PROJECT NUMBER: 20171214066	
Site Address:	316 Somerset Street East, Ottawa, Ontario
Year: 1999-2000	
Site Listing:	-Res (3 tenants)
Adjacent Properties:	

Somerset Street East 314	-Multi Tenant Res (6 tenants)
Somerset Street East 318	-Res (1 tenant)
Blackburn 92	-Res (3 tenants)
Chapel 395	(Chapel St) -Multi Tenant Res (8 tenants)

PROJECT NUMBER: 20171214066	
Site Address:	316 Somerset Street East, Ottawa, Ontario
Year: 1994-1995	
Site Listing:	-Res (3 tenants)
Adjacent Properties:	
Somerset Street East 314	-Multi Tenant Res (6 tenants)
Somerset Street East 318	-Res (1 tenant)
Blackburn 92	-Res (3 tenants)
Chapel 395	(Chapel St) -Multi Tenant Res (8 tenants)

PROJECT NUMBER: 20171214066	
Site Address:	316 Somerset Street East, Ottawa, Ontario
Year: 1990	
Site Listing:	-Res (1 tenant)
Adjacent Properties:	
Somerset Street East 314	-Multi Tenant Res (6 tenants)
Somerset Street East 318	-Res (1 tenant)
Blackburn 92	-Res (3 tenants)
Chapel 395	(Chapel St) -Multi Tenant Res (8 tenants)

PROJECT NUMBER: 20171214066	
Site Address:	316 Somerset Street East, Ottawa, Ontario
Year: 1984	
Site Listing:	-Res (2 tenants)
Adjacent Properties:	

Somerset Street East 314	-Multi Tenant Res (6 tenants)
Somerset Street East 318	-Res (1 tenant)
Blackburn 92	-Res (3 tenants)
Chapel 395	(Chapel St) -Multi Tenant Res (8 tenants)

PROJECT NUMBER: 20171214066	
Site Address:	316 Somerset Street East, Ottawa, Ontario
Year: 1980	
Site Listing:	-Res (2 tenants)
Adjacent Properties:	
Somerset Street East 314	-Multi Tenant Res (6 tenants)
Somerset Street East 318	-No Return
Blackburn 92	-Multi Tenant (8 tenants)
Chapel 395	(Chapel St) -Multi Tenant Res (8 tenants)

PROJECT NUMBER: 20171214066	
Site Address:	316 Somerset Street East, Ottawa, Ontario
Year: 1975	
Site Listing:	-Res (2 tenants)
Adjacent Properties:	
Somerset Street East 314	-Multi Tenant Res (6 tenants)
Somerset Street East 318	-No Return
Blackburn 92	-Multi Tenant (8 tenants)
Chapel 395	(Chapel St) -Multi Tenant Res (8 tenants)

PROJECT NUMBER: 20171214066	
Site Address:	316 Somerset Street East, Ottawa, Ontario
Year: 1970	
Site Listing:	-Res (1 tenant)
Adjacent Properties:	

Somerset Street East 314	-Multi Tenant Res (6 tenants)
Somerset Street East 318	-Res (1 tenant)
Blackburn 92	-Multi Tenant (8 tenants)
Chapel 395	(Chapel St) -Multi Tenant Res (8 tenants)

PROJECT NUMBER: 20171214066	
Site Address:	316 Somerset Street East, Ottawa, Ontario
Year: 1965	
Site Listing:	-Res (2 tenants)
Adjacent Properties:	
Somerset Street East 314	-Multi Tenant Res (5 tenants)
Somerset Street East 318	-Res (1 tenant)
Blackburn 92	-Multi Tenant (5 tenants)
Chapel 395	(Chapel St) -Multi Tenant Res (8 tenants)

PROJECT NUMBER: 20171214066	
Site Address:	316 Somerset Street East, Ottawa, Ontario
Year: 1960	
Site Listing:	-Res (1 tenant)
Adjacent Properties:	
Somerset Street East 314	-Multi Tenant Res (5 tenants)
Somerset Street East 318	-Res (1 tenant)
Blackburn 92	-Multi Tenant (5 tenants)
Chapel 395	(Chapel St) -Multi Tenant Res (8 tenants)

PROJECT NUMBER: 20171214066	
Site Address:	316 Somerset Street East, Ottawa, Ontario
Year: 1955	
Site Listing:	-Res (1 tenant)
Adjacent Properties:	

Somerset Street East 314	-Multi Tenant Res (5 tenants)
Somerset Street East 318	-Res (1 tenant)
Blackburn 92	-Multi Tenant (5 tenants)
Chapel 395	(Chapel St) -Multi Tenant Res (8 tenants)

PROJECT NUMBER: 20171214066	
Site Address:	316 Somerset Street East, Ottawa, Ontario
Year: 1950	
Site Listing:	-Res (1 tenant)
Adjacent Properties:	
Somerset Street East 314	-Multi Tenant Res (5 tenants)
Somerset Street East 318	-Res (1 tenant)
Blackburn 92	-Multi Tenant (5 tenants)
Chapel 395	(Chapel St) -Multi Tenant Res (8 tenants)

PROJECT NUMBER: 20171214066	
Site Address:	316 Somerset Street East, Ottawa, Ontario
Year: 1945	
Site Listing:	-Address Not Listed
Adjacent Properties:	
Somerset Street East 314	-Address Not Listed
Somerset Street East 318	-Address Not Listed
Blackburn 92	-Multi Tenant (5 tenants)
Chapel 395	(Chapel St) -Multi Tenant Res (8 tenants)

PROJECT NUMBER: 20171214066	
Site Address:	316 Somerset Street East, Ottawa, Ontario
Year: 1940	
Site Listing:	-Address Not Listed
Adjacent Properties:	

Somerset Street East 314	-Address Not Listed
Somerset Street East 318	-Address Not Listed
Blackburn 92	-Multi Tenant (5 tenants)
Chapel 395	(Chapel St) -Multi Tenant Res (8 tenants)

PROJECT NUMBER: 20171214066	
Site Address:	316 Somerset Street East, Ottawa, Ontario
Year: 1935	
Site Listing:	-Address Not Listed
Adjacent Properties:	
Somerset Street East 314	-Address Not Listed
Somerset Street East 318	-Address Not Listed
Blackburn 92	-Vacant
Chapel 395	(Chapel St) -Multi Tenant Res (8 tenants)

PROJECT NUMBER: 20171214066	
Site Address:	316 Somerset Street East, Ottawa, Ontario
Year: 1930	
Site Listing:	-Address Not Listed
Adjacent Properties:	
Somerset Street East 314	-Address Not Listed
Somerset Street East 318	-Address Not Listed
Blackburn 92	-Res (1 tenant)
Chapel 395	(Chapel St) -Multi Tenant Res (8 tenants)

PROJECT NUMBER: 20171214066	
Site Address:	316 Somerset Street East, Ottawa, Ontario
Year: 1924	
Site Listing:	-Address Not Listed
Adjacent Properties:	

Somerset Street East 314	-Address Not Listed
Somerset Street East 318	-Address Not Listed
Blackburn 92	-Res (1 tenant)
Chapel 395	(Chapel St) -Multi Tenant Res (8 tenants)

PROJECT NUMBER: 20171214066	
Site Address:	316 Somerset Street East, Ottawa, Ontario
Year: 1920	
Site Listing:	-Address Not Listed
Adjacent Properties:	
Somerset Street East 314	-Address Not Listed
Somerset Street East 318	-Address Not Listed
Blackburn 92	-Vacant
Chapel 395	(Chapel St) -Multi Tenant Res (8 tenants)

PROJECT NUMBER: 20171214066	
Site Address:	316 Somerset Street East, Ottawa, Ontario
Year: 1915	
Site Listing:	-Address Not Listed
Adjacent Properties:	
Somerset Street East 314	-Address Not Listed
Somerset Street East 318	-Address Not Listed
Blackburn 92	-Res (1 tenant)
Chapel 395	(Chapel St) -Multi Tenant Res (8 tenants)

PROJECT NUMBER: 20171214066	
Site Address:	316 Somerset Street East, Ottawa, Ontario
Year: 1910	
Site Listing:	-Address Not Listed
Adjacent Properties:	

Somerset Street East 314	-Address Not Listed
Somerset Street East 318	-Address Not Listed
Blackburn 92	-Res (1 tenant)
Chapel 395	(Chapel St) -Address Not Listed

PROJECT NUMBER: 20171214066	
Site Address:	316 Somerset Street East, Ottawa, Ontario
Year: 1905	
Site Listing:	-Address Not Listed
Adjacent Properties:	
Somerset Street East 314	-Address Not Listed
Somerset Street East 318	-Address Not Listed
Blackburn 92	-Address Not Listed
Chapel 395	(Chapel St) -Address Not Listed

-All listings for businesses were listed as they are in the city directory.

-Listings that are residential are listed as “residential” with the number of tenants. The name of the residential tenant is not listed in the above city directory

PHASE ONE ENVIRONMENTAL SITE ASSESSMENT 316 SOMERSET STREET EAST, OTTAWA, ON



APPENDIX C – CORRESPONDENCE

December 18, 2017

Ministry of the Environment and Climate Change
Ottawa District Office
103-2430 Don Reid Drive
Ottawa ON K1H 1E1

Re: Freedom of Information Request (FOI)

Civic Address: 316 Somerset Ave., Ottawa, Ontario

Legal Description: PLAN 147991 LOT 52 TO 53 PT; SOMERSET S RP5R-6650 PART 3 (PIN042060003)

Dear Sir/Madam,

We have been authorized to perform a Phase I Environmental Site Assessment (ESA) for the above-noted property located in Ottawa, Ontario. As part of the ESA we are required to review past environmental occurrences on the subject property. In order to perform this part of the research, we would like to enquire as to whether or not your office has any record of Orders, Approvals or other documentation pertaining to this property.

A figure has been attached showing a map and location details of the subject site. Thank you in advance for all of your assistance with this request.

If you have any further questions or require further clarification, please do not hesitate to contact the undersigned.

Yours Truly,



Meghan Coyle, B.Sc.

Ext. 2260

m.coyle@mcintoshperry.com

CP-17-0637 - Request to MOE for Orders and Approvals..docx

Ministry of the Environment
and Climate Change
Ottawa District Office
2430 Don Reid Drive, Suite 103
Ottawa Ontario
K1H 1E1
613-521-3450 or 1-800-860-2195
Fax: 613-521-5437

Ministère de l'Environnement et de
l'Action en matière de changement climatique
Bureau du district d'Ottawa
2430, promenade Don Reid, Unité 103
Ottawa (Ontario)
K1H 1E1
613-521-3450 ou 1-800-860-2195
Téléc. : 613-521-5437



OTT File No: **94**

**INDEX REVIEW REPORT
COMMERCIAL/INDUSTRIAL/AGRICULTURAL**

Attention: Meghan Coyle McIntosh Perry	Your File: Date Received: December 27, 2017
---------------------------------------------------------	----------------------------------------------------

Thank you for your inquiry requesting a search of records from the Ministry of the Environment and Climate Change (ministry). The ministry encourages you to use the available on-line resources to access publically-available information which may assist with your inquiry.

PROPERTY OWNER AND LOCATION

Location: Municipality: **Ottawa**

Address: **316 Somerset Avenue**
Lot Concession Township

INDEX OF NAMES FOR ORDERS

We have searched the *Ottawa* District Index Record of Active Orders under the Environmental Protection Act (EPA), Ontario Water Resources Act (OWRA) and the Pesticides Act (PA) issued to: and the following information has been found:

☒ No Active Orders are outstanding

Please Note: For information related to any ministry Orders issued to the property in question, **please request this information from the property owner.** If you would like further information regarding a specific Order issued, please contact the Ottawa District Office.

Date of Search: January 2, 2018

RECORD OF SITE CONDITION

For information on **Records of Site Condition** filed on the Environmental Site Registry since October 1, 2004, please use the following links:

For records of site condition filed between October 1, 2004 and June 30, 2011

<https://www.lrcsde.lrc.gov.on.ca/besrWebPublic/generalSearch> and for records of site condition filed since July 1, 2011 <https://www.ontario.ca/environment-and-energy/records-site-condition>

INDEX REVIEW REPORT COMMERCIAL/INDUSTRIAL/AGRICULTURAL

INDEX OF NAMES FOR APPROVALS ISSUED SINCE 1999

A search of the Index Record of names of all persons to whom approvals have been issued, maintained by the Director, Approvals Branch and the Regional Director, *Eastern Region*, and the District Manager, *Ottawa District*, under Section 19 EPA and Section 13 OWRA and the following information has been provided :

<u>Type</u>	<u>Number</u>	<u>Issued To</u>	<u>Issue Date</u>
Section 9 EPA (Air)			
Section 39 EPA (Waste Management)			
Section 52 OWRA (Water)			
Section 53 OWRA (Municipal/Private/ Industrial Sewage)			
Other			

The **ministry's Access Environment** is an on-line, map-based search tool designed to allow the public, quick and easy access to the ministry approvals and registration information from December 1999 onward. Access Environment currently displays Environmental Compliance Approvals (ECA), Renewable Energy Approvals (REA) and registrations on the Environmental Activity and Sector Registry (EASR). ECAs include all Certificates of Approval (CofAs) previously issued under the Environmental Protection Act (EPA) and approvals previously issued under s.53 of the Ontario Water Resources Act (OWRA). You can access this information from the ministry website or at the following link:

www.accessenvironment.ene.gov.on.ca/AEWeb/ae/GoSearch.action?search=basic&lang=en

Copies of **ECAs issued before January 1, 2000** can be obtained by submitting a Request for a Copy of an Environmental Compliance Approval

Please Note:

- 1) The information provided above is based solely on the address(es) and name(s) of the present and past owners provided by you.
- 2) The Index Record of Names to whom approvals have been issued, maintained by the Regional Director and District Manager, has been searched back to 1999.
- 3) A search of our records does **NOT** indicate whether there are:
 - other uses for which an approval may have been required, **nor**
 - other uses on the property or in the vicinity that may affect the suitability of the property, for the use proposed to be made of it.
 If a comprehensive knowledge of the property and the nearby lands and their environmental condition is required, you must examine them and other relevant records yourself, with the aid of a qualified person, if needed.

☒ No Approvals have been issued.

Date of Search: January 2, 2018

INDEX REVIEW REPORT COMMERCIAL/INDUSTRIAL/AGRICULTURAL

Additional site information related to the **location of landfill sites** in the province can be found at the following link:

<http://www.ontario.ca/environment-and-energy/small-landfill-sites>

<http://www.ontario.ca/environment-and-energy/map-large-landfill-sites>

The **ministry's Hazardous Waste Information Network (HWIN)** can also be accessed to search for information on generators, carriers, and receivers of subject waste in the province at the following link: www.hwinc.ca

The **ministry's Environmental Compliance Reports** provide information about contaminant discharges to water and emissions to air that exceed limits found in legislation, environmental approvals, orders and/or policies/guidelines and can be accessed at the following link: <http://www.ontario.ca/environment-and-energy/environmental-compliance-reports>

Information on **Environmental Penalties**, which are monetary penalties that can be imposed by the ministry for some industrial spills, can be assessed at the following link: <https://www.ontario.ca/search/search-results?query=environmental%20penalties>

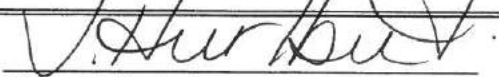
Additional ministry information can be accessed through the **Government of Ontario's Open Data Catalogue**: <http://www.ontario.ca/government/open-data-ontario>

The ministry also encourages you to consider best practices and standards of care used within the legal community and through your associations as a guide to obtaining information related to specific property for any legal purpose.

We trust this information will help meet your requirements quickly and effectively.

Please advise your colleagues that responses to requests for searches always take some time. As a result the Ministry of the Environment and Climate Change may not be able to meet deadlines imposed by other parties on real estate and other transactions.

Thank you for your inquiry.

Signature:		
Contact Name:	Jéhanne Hurlbut	
Title:	Administrative Assistant	
Address:	Ministry of the Environment and Climate Change 2430 Don Reid Drive, Unit 103 Ottawa, ON K1H 1E1	
Phone:	(613) 521-3450 Ext 221	Date: January 2, 2018
		E&OE

Please Note: If you would like to receive an email with all the environmental links above, please contact me at jehanne.hurlbut@ontario.ca and I will be pleased to send them to you.

McINTOSH PERRY

December 18, 2017

Ministry of the Environment and Climate Change
Freedom of Information Office
40 St. Clair Avenue West, 12th Floor
Toronto, ON M4V 1M2


Re: Freedom of Information Request (FOI)
Civic Address: 316 Somerset Ave., Ottawa, Ontario
Legal Description: PLAN 147991 LOT 52 TO 53 PT; SOMERSET S RP5R-6650 PART 3 (PIN042060003)

Dear Sir/Madam,

Please find enclosed a freedom of information request pertaining to the above-noted site. A credit card payment form for the Freedom of Information Request fee is enclosed. Please mail or fax our office any information regarding this site.

If you have any further questions, please do not hesitate to contact the undersigned.

Yours Truly,



Meghan Coyle, B.Sc.

Ext. 2260

m.coyle@mcintoshperry.com

CP-17-0637 - MOE Freedom of Information Request .docx

Freedom of Information Request

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

Requester Data			For Ministry Use Only	
Name, Company Name, Mailing Address and Email Address of Requester			FOI Request No.	Date Request Received
Email address: m.coyle@mcintoshperry.com			Fee Paid	
			<input type="checkbox"/> ACCT <input type="checkbox"/> CHQ <input type="checkbox"/> VISA/MC <input type="checkbox"/> CASH	
Telephone/Fax Nos. Tel. (613) 836-2184 ext. 2260 Fax (613) 836-3742	Your Project/Reference No. CP-17-0637	Signature/Print /Name of Requester /Meghan Coyle	<input type="checkbox"/> CNR <input type="checkbox"/> ER <input type="checkbox"/> NOR <input type="checkbox"/> SWR <input type="checkbox"/> WCR <input type="checkbox"/> SAC <input type="checkbox"/> IEB <input type="checkbox"/> EAA <input type="checkbox"/> EMR <input type="checkbox"/> SWA	
Request Parameters				
Municipal Address / Lot, Concession, Geographic Township (Municipal address essential for cities, towns or regions)				
Civic Address: 316 Somerset Ave., Ottawa, Ontario				
Legal Description: PLAN 147991 LOT 52 TO 53 PT; SOMERSET S RP5R-6650 PART 3 (PIN042060003)				
Present Property Owner(s) and Date(s) of Ownership				
TC United, 2017				
Previous Property Owner(s) and Date(s) of Ownership				
Unknown				
Present/Previous Tenant(s), (if applicable)				
Unknown				
Search Parameters			Specify Year(s) Requested	
Files older than 2 years may require \$60.00 retrieval cost. There is no guarantee that records responsive to your request will be located.				
Environmental concerns (General correspondence, occurrence reports, abatement)			1986-2013	
Orders			1986-2013	
Spills			1986-2013	
Investigations/prosecutions ➤ Owner AND tenant information must be provided			1986-2013	
Waste Generator number/classes			1986-2013	
Certificates of Approval ➤ Proponent information must be provided				
1985 and prior records are searched manually. Search fees in excess of \$300.00 could be incurred, depending on the types and years to be searched. Specify Certificates of Approval number(s) (if known). If supporting documents are also required, mark SD box and specify type e.g. maps, plans, reports, etc.				
	SD	Specify Year(s) Requested		
air - emissions		1986-2013		
water - mains, treatment, ground level, standpipes & elevated storage, pumping stations (local & booster)		1986-2013		
sewage - sanitary, storm, treatment, stormwater, leachate & leachate treatment & sewage pump stations		1986-2013		
waste water - industrial discharges		1986-2013		
waste sites - disposal, landfill sites, transfer stations, processing sites, incinerator sites		1986-2013		
waste systems - PCB destruction, mobile waste processing units, haulers: sewage, non-hazardous & hazardous waste		1986-2013		
pesticides - licenses		1986-2013		

A \$5.00 non-refundable application fee, payable to the Minister of Finance, is mandatory. The cost of locating on-site and/or preparing any record is \$30.00/hour and 20 cents/page for photocopying and you will be contacted for approval for fees in excess of \$30.00.

Ministry of the Environment
and Climate Change

Freedom of Information and
Protection of Privacy Office

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

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

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

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



January 16, 2018



Meghan Coyle
McIntosh Perry Consulting Engineers
115 Walgreen Road, RR 3
Carp, ON K0A 1L0

Dear Meghan Coyle:

RE: *Freedom of Information and Protection of Privacy Act Request*
Our File #: A-2017-08881, Your Reference #: CP17-0637

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 316 Somerset Avenue, Ottawa.

After a thorough search of the Ministry's Ottawa District Office, Investigations and Enforcement Branch, Environmental Assessment and Permissions 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 personal information of private individuals 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 3 pages @ \$0.20/page	\$0.60
• Delivery	3.00
• Total	\$ 33.60
• Deposit Received	- 30.00
• BALANCE WAIVED (NOT REQUIRED)	\$3.60



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

If you have any questions regarding this matter, please contact Sharon Nelson at sharon.nelson@ontario.ca.

Yours truly,


Janet Dadufalza
FOI Manager
Attachments

INCIDENT REPORT

Reference Number:	2208-8N6RZ4	File Storage Number:	SLOT OT SO 100
Module:	Incident Reporting	Module Type:	Spill
Cross Reference:	(doc link)	Task Link:	0147-8N6SA4 
Originating Document:		Created by:	Paul Webb
Incident Report Reference Number:	2208-8N6RZ4 		
Date Created:	2011/10/31	Date Completed:	2011/11/22
Bring Forward Date:		Bring Forward Reason:	
Status:	Closed		
Program	Waste - Hazardous & Liquid Industrial	Activity:	Spills

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

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

☐ Yes ☒ No ☐ To be determined

[Click here for Guidance](#)

Caller or PO Information

Reported By:		Name of Company:	
First Name	Last Name	Ultramar	
Richard	Miller		
Contact Mailing Address			
Civic Address:			Unit Identifier:
Delivery Designator:			Delivery Identifier:
Municipality:	Postal Station:	Province/State:	Postal Code:
Ottawa		Ontario	
Telephone Number:	Extension:	Other Number:	Email Address:
(613)913-2042		Fax	

Reported By:

MOE Information

Date & Time Reported to MOE:	2011/10/31 16:14		
Office Receiving Incident Report:	Spills Action Centre		
Incident Info Received By:	Paul Webb		
MOE Response:	Referral to others	Site Region:	Eastern
Date & Time of MOE Arrival at Scene:			
Master Incident Report Number:			

SAC Action Class:	TSSA - Fuel Safety Branch
Non-Standard Procedure:	No
ERP Call-out Initiated:	No

Client(s)

Client Details

Site(s)

Site Details
316 Somerset Avenue, East<UNOFFICIAL> Address: Lot , Part , 316 Somerset Avenue, East, Ottawa, City, District Office: Ottawa

Incident Information

s.21

Incident Summary:	TSSA/Resident-Outside Furnace Oil Tank Weeping <i>cannot be longer than 60 characters</i>
Incident Description:	TSSA/Resident-Outside Furnace Oil Tank said to be Weeping. Caller reports an outside furnace oil tank is weeping, there is evidence of oil on the ground. Bottom of tank is wet/source. Tank was installed in 1999. Address is 316 Somerset east in Ottawa [REDACTED] 16:15 SAC paged Mike Goldberg; 16:38 Mike to SAC, briefed, will contact caller right away. ** e-mailed to Tssa ** November 2, 2011 - TSSA has been made aware of the incident and have been provided a copy of the report. No further MOE action is required at this time; file closed.

Links & Comments:	
Attachments Names:	

Date & Time of Incident	Incident Date Confirmation? Actual 2011/10/31 15:00		
Source Type:		Sector Type:	
Nearest Watercourse:		Watershed Category Code:	
Environmental Impact:	Not Anticipated		
Nature of Impact:			
Incident Cause:		Incident Reason:	
Damaged Party:	No		

Contaminants Table

Contaminant Name	Code	UN#	Limit	Quantity	[units]	[freq]
FURNACE OIL	13	1202				

Meghan Coyle

From: Ruchi Chohan <rchohan@tssa.org> on behalf of Public Information Services <publicinformationservices@tssa.org>
Sent: December-28-17 9:03 AM
To: Meghan Coyle
Subject: RE: Records for site in the City of Ottawa

Hello Meghan,

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 complete our release of public information form found at https://www.tssa.org/en/about-tssa/release-of-public-information.aspx?_mid_=392 and email the completed form to 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,

Ruchi

From: Meghan Coyle [<mailto:m.coyle@mcintoshperry.com>]
Sent: December 15, 2017 2:15 PM
To: Public Information Services <publicinformationservices@tssa.org>
Subject: Records for site in the City of Ottawa

Dear Sir/Madam

We are preparing a Phase I Environmental Site Assessment (ESA) for a property located in Ottawa, ON

Civic Address: 316 Somerset Ave., Ottawa, ON

Legal Description: PLAN 147991 LOT 52 TO 53 PT; SOMERSET S RP5R-6650 PART 3 (Pin 042060003)

We trust the above is satisfactory. However, please do not hesitate to contact me if you have any questions

Regards,

Meghan Coyle, B.Sc.

Environmental Scientist

115 Walgreen Road, R.R. 3, Carp, ON K0A 1L0

T. 613.836.2184 (ext 2260) | F. 613.836.3742 | C. 613.868.2551

m.coyle@mcintoshperry.com | www.mcintoshperry.com

McINTOSH PERRY

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**PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
316 SOMERSET STREET EAST, OTTAWA, ON**



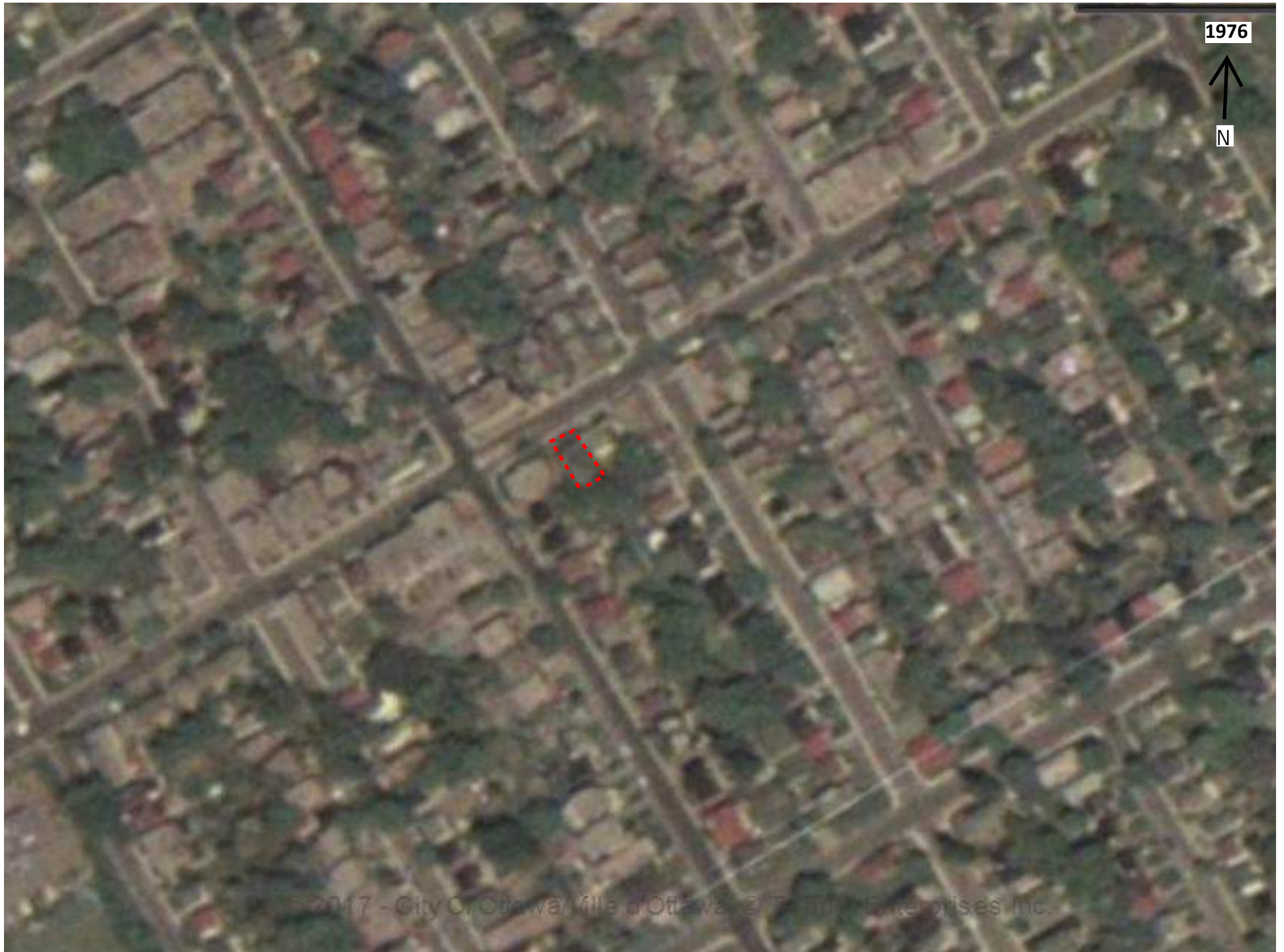
APPENDIX D – AERIAL PHOTOGRAPHS







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PHASE ONE ENVIRONMENTAL SITE ASSESSMENT 316 SOMERSET STREET EAST, OTTAWA, ON



APPENDIX E – INTERVIEW RECORDS

Phase I ESA Interviews

316 SOMERSET ST. E.

Interviewer (MPCE) _____ MPCE Project No. _____

Interviewee OWNER REPRESENTATIVERelationship to Subject Property OWNER Time Associated with Property: DEC 5/17Date 01/18/18

Date Property was developed: _____

Potential Item of Concern	Interview Comments
Accidents/Spills	NOT AWARE OF ANY.
Previous Use of Site	RESIDENTIAL
Adjacent Properties	RESIDENTIAL.
Fuel Handling/Storage	OIL TANK
Maintenance/ Operational Areas	HOMEOWNER
Hazardous Materials Storage	OIL IN TANK IN REAR YARD
Salt Storage	NO.

Potential Item of Concern	Interview Comments
Fuel Storage Tanks	REAR YARD OIL TANK
Odours	NO
Potable Water	YES
Septic and Wastewater Discharges	TO CITY SERVICES
Pesticides	NO
Mould	NO
Heating and Cooling Systems	OIL FUELED BOILER SYSTEM.
Major Mechanical Equipment	OIL BOILER.
Waste Oils, Solvents, Batteries	NO
PCBs	NO
Asbestos	UNKNOWN
Lead Paint	UNKNOWN

Potential Item of Concern	Interview Comments
ODS	NO
Electromagnetic Radiation	NO
UFFI	NO
Mercury	NO
Radon Gas	NO
Soil and Groundwater Conditions	GOOD
Wells	NO
Waste Disposal and Recycling	CITY COLLECTION
Fill Material	NATURAL, ORGANIC
Floor Drains/OWS (discharge locations)	BASEMENT
Other	

Future use of property: MIXED USE BUILDING, 4 RESIDENTIAL UNITS
AND 1 COMMERCIAL UNIT (OFFICE) AT GROUND FLOOR.

PHASE ONE ENVIRONMENTAL SITE ASSESSMENT 316 SOMERSET STREET EAST, OTTAWA, ON



APPENDIX F – SITE PHOTOGRAPHS



Photograph 1. Exterior of site, facing south.



Photograph 2. Furnace oil tank at the rear of the residence in the back yard, facing east.



Photograph 3. Fuel level gage on furnace oil tank (reads empty)



Photograph 4. Interior of detached garage



Photograph 5. Interior of residence basement, showing oil furnace boiler and multiple frozen/burst pipes



Photograph 6. Typical burst pipe and water damage (observed throughout basement)



Photograph 7. Hot water tank beside oil furnace, in basement of residence



Photograph 8. Water leaking from stream radiators due to burst pipes, typical of majority of radiators in residence.



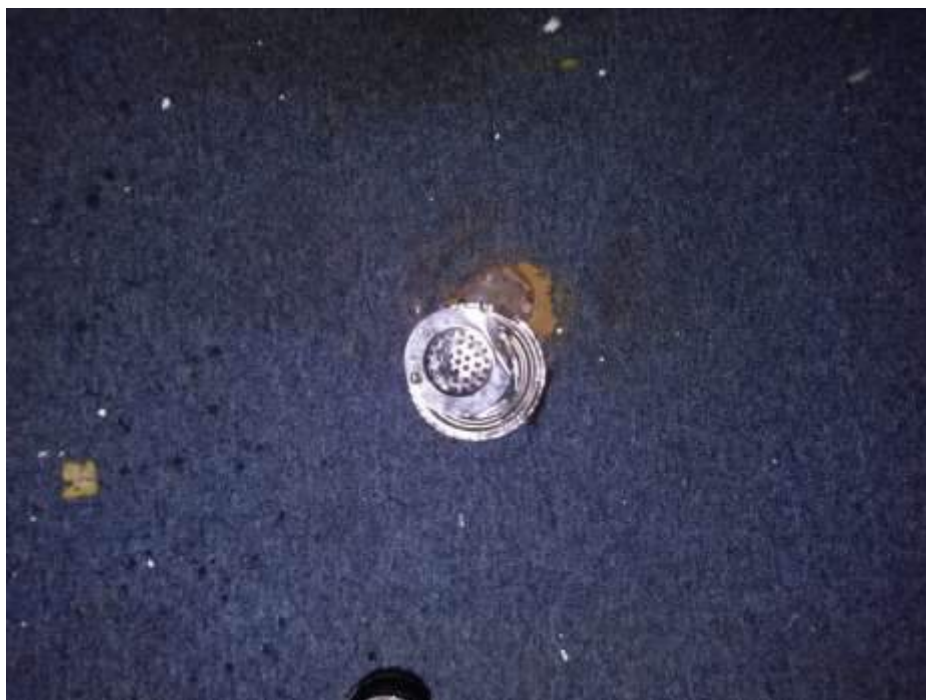
Photograph 9. Window air conditioning unit and water leak from radiator



Photograph 10. Possible lead-containing paint and pipes throughout residence



Photograph 11. Burst pipe with possible asbestos insulation



Photograph 12. Floor drain in basement of residence, slight staining, no odour