

Appendix N: Contamination Report



407 TRANSITWAY - KENNEDY ROAD TO BROCK ROAD

MINISTRY OF TRANSPORTATION - CENTRAL REGION



September 10, 2015

CONTAMINATION OVERVIEW STUDY - FINAL REPORT

Highway 407 Transitway from East of Kennedy Road to East of Brock Road, GWP 13-20003

Submitted to:

LGL Limited
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22 Fisher Street
King City, ON L7B 1G3

REPORT



Report Number: 14-1181-0001 (4000)

Distribution:

1 electronic copy - LGL Limited
1 copy - Golder Associates Ltd.





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1.0 INTRODUCTION

Golder Associates Ltd. (“Golder”) was retained by LGL Limited (“LGL”) on behalf of Parsons and the Ministry of Transportation (“MTO”) to carry out a Contamination Overview Study relating to contaminated lands and waste management for an 18 km section of the Transitway from east of Kennedy Road to east of Brock Road and eight potential stations including McCowan Road, Markham Road, 9th Line, Donald Cousens Pkwy/Reesor Road, York Durham Line, Whites Road (Sideline 26), Dixie Road/Rossland Road (Sideline 22) and Brock Road, in the cities of Markham and Pickering, Ontario (i.e., the “study area”). The study area, preferred alignment and limits are shown on Figure A (Appendix A).

The purpose of this Contamination Overview Study was to identify, in a preliminary fashion, potential subsurface chemical contamination issues associated with the study area which are obvious, from available sources of information. No soil, water, liquid, gas, product or chemical sampling and testing on, or in the vicinity of, the study area was conducted as part of this assessment. This assessment included a cursory overview of the study area and of the neighbouring land use and does not constitute a complete assessment of these lands. Several of the properties within the study area have a history of development and there may be issues of potential environmental concern associated with these properties that were not evident based on the level of assessment of our scope of work.

The preferred alignment for this portion of the 407 Transitway generally follows the southern limit of the Highway 407 right-of-way from just east of Kennedy Road to Brock Road. The Transitway crossed to the northern portion of Highway 407 at Kennedy Road in the western limit of the study area. At the eastern limit of the study area, the Transitway turns south (east of Brock Road), south of a large tributary, then back north along Sideline 16 to the southern limit of the County Road 7 right-of-way. There are eight potential station sites also contained within the study area.

2.0 METHOD OF INVESTIGATION

Information reviewed and agencies contacted as part of a typical Contamination Overview Study consist of the following:

- Technical Standards Safety Authority (“TSSA”) Fuel and Safety Division Records (requested for properties with issues of potential environmental concern only);
- Records on file at the City of Markham;
- Records on file at the City of Pickering;
- Records on file at the Region of York;
- Records on file at Durham Region;
- EcoLog ERIS Report;
- Aerial photographs, topographic and geologic mapping; and,
- Preliminary field reconnaissance (i.e. a windshield-level survey).



Table 1 provides a summary of those properties identified as having issues of potential environmental concern based on the information review. Figure A (Appendix A) identifies the location of those properties.

3.0 SCOPE OF WORK

3.1 Information Review

The assessment included a review of available and applicable references concerning site history and subsurface conditions. Details of the information reviewed are provided in the following sections of this report.

3.2 Technical Standards and Safety Authority (TSSA)

The TSSA was contacted to search their records for information on properties with the potential for the presence of on-Site fuel storage tanks based on Golder's previous experience with such properties. The following were the selected properties:

- 99/101 YMCA Boulevard, Markham (Markham YMCA, Roll Number 193602012712530). See Figure A - Property Identification Number 1 for location;
- 7997 Kennedy Road, Markham (Town and Country Volkswagen, Roll Number 193603022006500). See Figure A - Property Identification Number 2 for location;
- 8111 Kennedy Road, Markham (BMW, Roll Number 193603022007800). See Figure A - Property Identification Number 2 for location;
- 7892 McCowan Road, Markham (Cresthaven Golf Course, Roll Number 193603021380000). See Figure A - Property Identification Number 3 for location;
- 7970 Markham Road, Markham (Hydro Distribution Station, Roll Number 193603021416000). See Figure A - Property Identification Number 3 for location;
- 120 Rouge Bank Drive, Markham (Markham Green Golf Club, Roll Numbers 193603021477400 and 193603021477600). See Figure A - Property Identification Number 5 for location;
- 82 Copper Creek Drive, Markham (S Cleaners, Roll Number 193603025335830). See Figure A - Property Identification Number 6 for location;
- North Road, Markham (Vehicle maintenance and storage). See Figure A - Property Identification Number 8 for location; and,
- 3735 Sideline 16, Brougham (Dutchmaster Nurseries Ltd.). See Figure A - Property Identification Number 9 for location.

A written response was provided to Golder on June 23, 2015 which indicated that the TSSA had no records in their files relating to these properties, which have been identified as having issues of potential environmental concern. A copy of the TSSA's response is provided in Appendix B.



3.3 City of Markham

The Freedom of Information Section of the City of Markham was contacted on July 30, 2014 and requested to conduct a review of their files for any environmental information relating to the study area including information on spills, complaints, filling activities, sewer by-law infringements, previous environmental reports and landfills.

The City of Markham did not issue a response to Golder. This is likely due to the large number of properties requested. If the MTO is acquiring property, this request should be sent in again for each property as part of a Phase I Environmental Site Assessment, if required.

3.4 City of Pickering

The Freedom of Information Section of the City of Pickering was contacted on July 30, 2014 and requested to conduct a review of their files for any environmental information relating to the study area including information on spills, complaints, filling activities, sewer by-law infringements, previous environmental reports and landfills.

The City of Pickering did not issue a response to Golder. This is likely due to the large number of properties requested. If the MTO is acquiring property, this request should be sent in again for each property as part of the Phase I Environmental Site Assessment, if required.

3.5 Region of York

The Region of York Environmental Services Division was contacted on July 30, 2014 and requested to conduct a review of their files for any environmental information relating to the study area including information on spills, complaints, filling activities, sewer by-law infringements, previous environmental reports and landfills. A response was received from the Region of York on July 30, 2014 indicating that separate requests for each property are required for a fee of \$125 per property. As the costs associated with searching each property are impractical, if a Phase I Environmental Site Assessment is required for a given property, it is recommended that the information be obtained at that time. A copy of the Region of York's response is provided in Appendix B

3.6 Durham Region

The Durham Region Public Works Department was contacted on July 30, 2014 and requested to conduct a review of their files for any environmental information relating to the study area including information on spills, complaints, filling activities, sewer by-law infringements, previous environmental reports and landfills.

Durham Region did not issue a response to Golder. This is likely due to the large number of properties requested. If the MTO is acquiring property, this request should be sent in again for each property as part of the Phase I Environmental Site Assessment, if required.

3.7 EcoLog ERIS Search of Environmental Databases

Golder contracted EcoLog Environmental Risk Information Services Ltd. ("EcoLog ERIS") to search available federal, provincial, and private-sector environmental databases for the study area. The complete database report is included in Appendix C. Noteworthy findings of the EcoLog ERIS report are summarized below:

- Markham Green Inc. (Property 5, Figure A) obtained two Certificates of Approval for a new wash pad and a new turf care maintenance facility in 1998. No other information was provided.



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- Markham Green Inc. (Property 5, Figure A) was listed as a generator of petroleum distillates and waste oils and lubricants from 1992 to 2001.
- Markham Green Golf Club (Property 5, Figure A) has received five permits to take water (i.e., in 1997, 2000, 2004, and two in 2010).
- Markham Stouffville Hospital had a registered spill in 2004 of one bag of medical waste to the highway on Highway 407 at McCowan Road. Impacts to land were reportedly possible. This is outside the current study area.
- Dutchmaster Nurseries Ltd. (Property 9, Figure A), located northeast of the intersection of Highway 7 and Sideline 16 in Pickering, was listed as a registered generator of waste oils and lubricants from 1990 to 1998.
- Six spills were reported in the Ontario Spills database, although their exact locations are unknown;
 - A small amount of motor oil was released to a catchbasin in 2006 along Highway 407 in Markham. The spill was noted to be associated with a dump truck rollover. Impacts were reportedly not anticipated.
 - Less than 50 mL of hydrocarbons to the ground occurred in 2013 at the 407 East Construction Project north of Highway 7 in Pickering.
 - A non-specified amount of dog food waste was spilled at the southeast corner of the Markham Bypass at Highway 407 in 2005. Impacts were not anticipated.
 - Silt was released to Brougham Creek near Highway 7 and Sideline 16 due to a dyke/berm failure in 2013. Surface water impacts were confirmed.
 - Less than 10 L of diesel spilled onto the gravel shoulder of Highway 407 in Markham in 2006. Land contamination was confirmed.
 - 20 L of diesel and tar spilled to the highway ramp due to a dump truck rollover in 2007 along Highway 407 in Markham.
- Fifty-six Trans Canada Fuel Storage Tanks were listed potentially within the study area although exact locations are unknown. These tanks are likely related to tanks within Pickering Lands north of the Site and do not represent issues of potential environmental concern to the study area.
- Forty-seven water wells were listed in the Water Well Information System within the study area. The majority of these were test wells or dewatering wells likely related to the construction of Highway 407. The stratigraphy generally consisted of sand and/or fill overlying silt. An additional 117 boreholes were registered within the study area, also likely related to the construction of Highway 407.

3.8 Aerial Photographs

Aerial photographs of the study area (or portions thereof) and vicinity were obtained from the National Air Photo Library in Ottawa, Ontario and reviewed for the years 1969, 1978, and 1988. A 2013 aerial photograph was obtained from Google Earth™. It should be noted that due to the small scale of the aerial photographs, some structure details could not be determined. Aerial photographs are provided in Appendix D.



In 1969, the study area was largely undeveloped and under agricultural land use with residential developments scattered throughout the western portion of the study area and to the north of the study area. The rail line was present east of the present day Donald Cousens Parkway. Highway 7 was present to the north of the study area. Highway 407 was not constructed.

By 1978, additional residential developments were present west of Ninth Line and in the vicinity of Brock Road. The remainder of the study area appears similar to the 1969 photograph.

By 1988, some commercial properties were developed in the vicinity of Kennedy Road and the future Highway 407. Cresthaven Golf Course is present near the intersection of the future Highway 407 and McCowan Road. Some additional development is evident in the extreme eastern portion of the study area.

3.9 Existing Conditions

According to the 2013 Google Earth aerial imagery and the site reconnaissance, the current conditions of the Study Area are as follows:

West of Kennedy Road to McCowan Road

North Side

Several car dealerships, with vehicle maintenance (Property 2, Figure A), are located on the northeast and northwest corners of the intersection of Kennedy Road and Highway 407. The Markham YMCA (Property 1, Figure A) is located on the northwest corner of this intersection. Further east is developed with residential land use.

South Side

A hydro transformer station is located southwest of the intersection of Highway 407 and Kennedy Road although is well outside the limits of the study area. A hydro corridor runs parallel along the southern limit of Highway 407. The area to the south of Highway 407 (in the vicinity of the hydro corridor) is either undeveloped, under agricultural land use, or developed as a golf course (Cresthaven Golf Course [Property 3, Figure A] is located southwest of the intersection of McCowan Road and Highway 407).

McCowan Road to Markham Road

North Side

This area is either undeveloped or under agricultural land use with Milne Dam Conservation Park located in the central portion of this section of the right-of-way. Residential land use is located northwest of the intersection of Markham Road and Highway 407.

South Side

A hydro corridor runs parallel along the southern limit of Highway 407. The area to the south of Highway 407 (in the vicinity of the hydro corridor) is either undeveloped, or under agricultural land use. A hydro distribution station (Property 4, Figure A) is located on the west side of Markham Road.



Markham Road to Ninth Line

North Side

This area is either undeveloped (surrounding the Rouge River or directly adjacent to the highway) or under residential land use.

South Side

The area is under residential land use between Markham Road and the Rouge River. The Markham Green Golf Club (Property 5, Figure A) is located along the east banks of the Rouge River with undeveloped or residential land use east of this.

Ninth Line to Donald Cousens Parkway

North Side

This area is either under residential (west portion) or agricultural land use (east portion).

South Side

A commercial retail development (including S Cleaners, a dry cleaner; Property 6, Figure A) is located to the southeast of the intersection of Ninth Line and Highway 407. Undeveloped or residential land use is located further east with Wal-Mart located southwest of the intersection of Donald Cousens Parkway and Highway 407.

Donald Cousens Parkway to York-Durham Line

North Side

This area is mainly under agricultural land use. A few residential properties are located to the northwest of York-Durham Line along Locust Hill Lane. One construction yard with wooden skid and equipment storage is located on the west side of York-Durham Line approximately 250 m north of Highway 407, outside the study limits. A rail line runs in a southwest to northeast orientation east of Reesor Road and crosses Highway 407 in the vicinity of Little Rouge Creek.

South Side

This area is mainly under agricultural land use. A rail line runs in a southwest to northeast orientation east of Reesor Road and crosses Highway 407 in the vicinity of Little Rouge Creek.

York-Durham Line to Brock Road

North Side

This area is mainly under agricultural land use. One property located northwest of North Road and Highway 407 (Property 8, Figure A) has vehicle and equipment storage present on-site. Residential properties are located to the northwest of Brock Road in the vicinity of Highway 7 and Donnalea Avenue. A cemetery is also located on the west side of Brock Road, approximately 200 m north of Highway 407, but is outside the study area. A rail line runs in a southwest to northeast orientation east of Reesor Road and crosses Highway 407 in the vicinity of Little Rouge Creek.

South Side

This area is mainly under agricultural land use. An area approximately 500 m east of York-Durham Line appears to have been used for fill placement in approximately 2009.



Brock Road to East of Highway 7

North Side

This area is mainly under construction for the extension of Highway 407 and was historically under agricultural land use. Sunny Days RV is located on the southeast corner of Highway 7 and Brock Road, well north of the northern extent of the Study Area. Residential properties are also located in this area. Dutchmaster Nurseries Ltd. (Property 9, Figure A) is located to the northeast of Sideline 16 and County Road 7.

South Side

This area is mainly under construction for the extension of Highway 407 and was historically under agricultural land use.

3.9.1 Regional Geology

Surface geology mapping as presented on the Ontario Geological Survey Preliminary Map 2204, Geological Series "Quaternary Geology, Toronto and Surrounding Area, Southern Ontario, scale 1:100,000" (D.S. Sharpe, 2000) was reviewed by Golder. Based on the Quaternary geology mapping, the west portion of the Transitway, in the vicinity of Kennedy Road and McCowan Road crosses shallow glacial lake sediments of sand, silt and clay. East of McCowan Road, the shallow geology is expected to transition to glacial deposits of till, typically relatively fine grained clayey silt till to sandy silt till. The till deposits predominate in the study area to east of Brock Road, with the exception of recent stream deposits associated with the valley corridors which cross the alignment. East of Brock Road, glacial lake deposits of silt, sand and gravel area expected to be encountered in the lower elevations associated with the Duffin's Creek valley. Based on the surficial geology of the study area, significant areas of groundwater recharge are not expected within the study area. Groundwater discharge is expected to be limited to the lower elevation stream valley areas in the study area.

Based on a plot of the well records, water wells have been in use historically throughout the study area; however, given the expansion of the urban area of the Town of Markham, it is not expected that water wells are in use within the study area west of Donald Cousens Parkway. East of Donald Cousens Parkway, water well use is expected to be either residential or agricultural and wells in the area are generally anticipated to be associated with residences and/or farm infrastructure. The geology reported in the well records is generally consistent with the published mapping with relatively fine grained clay and till deposits typically reported at ground surface.

3.9.2 Existing Land Use

The study area is located within the Town of Markham and the Town of Pickering. Land use in the vicinity of the study area was observed to be primarily a mix of undeveloped, residential, agricultural, and commercial land use. Some properties are expected to have or historically had fuel use and/or storage on-Site and vehicle or equipment maintenance.

A summary of the significant findings of the field reconnaissance is presented in Table 1. Locations of properties with issues of potential environmental concern are shown on Figure A. Properties described in Table 1 are reported by address.



3.10 Summary of Findings

Based on existing land use from the information obtained to date, there are some properties within the study area which would require further environmental investigation to assess the potential presence of subsurface impacts. Figure A identifies properties which may have environmental impacts to soil and/or groundwater from current or historical activities.

The current and/or former occupants of the properties of concern are listed in Table 1. In general, properties currently or historically developed as service garages, gas stations, vehicle sales centres, auto body repair shops, manufacturing facilities, industrial properties and construction yards represent issues of potential environmental concern and impacts may be encountered during construction activities in the vicinity of these properties. Properties which require further background investigation generally include properties that appear to be vacant or newly occupied, but which had previously been developed for different uses. Any agricultural properties with active farming infrastructure (i.e., barns, sheds, livestock pens) within 50 m of the right-of-way have been identified on Table 1 due to the potential petroleum hydrocarbon, pesticide, and nutrients impacts associated with these operations; however, cultivated fields have not been identified.

If a property is not listed in Table 1, impacts to soil and/or groundwater are not anticipated based on information gathered to date. However, it should be noted that there may be issues of potential environmental concern associated with these properties that were not evident based on the level of assessment carried out as described in this report. Further, the issues of potential environmental concern identified in Table 1 are preliminary in nature and may not include all issues associated with the property. Additional background information is required to better characterize the potential site specific contaminants of concern.

Should impacts be identified during construction, which are not anticipated based on the evaluation completed above, an assessment will be conducted and appropriate steps will be taken following the MTO's Environmental Reference for Highway Design.



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Table 1: Property Identification Summary

Property I.D.	Site Occupant /Address	Distance and Direction from 407 Transitway	Occupant	Potential Contaminants/ Issues of Concern *	Source	Property Level I.D. ¹	Comments
1	Markham YMCA/101 YMCA Boulevard, Markham	200 m west of western limit	YMCA (former agricultural)	Pesticides, BTEX, PHC F1 to F4	Aerial Photographs, Markham interactive mapping, preliminary field reconnaissance	2	Possible environmental impact from pesticide use and storage of fuel. Former infrastructure is within ROW.
2	Town and Country Volkswagen and BMW/ 7997 Kennedy Road (VW), 8111 Kennedy Road (BMW)	Adjacent north of western limit	Vehicle sales and vehicle maintenance	Fuel use and storage, metals, lubricants	Aerial Photographs, Markham interactive mapping, preliminary field reconnaissance	2	Vehicle maintenance
3	Cresthaven Golf Course/ 7892 McCowan Road, Markham	Adjacent south (southwest of Highway 407 and McCowan Road)	Cresthaven Golf Course	BTEX, PHC F1 to F4, herbicides, pesticides	Aerial Photographs, Markham interactive mapping, preliminary field reconnaissance	3	Golf course
4	Hydro Distribution Station/7872 McCowan Road, Markham	100 m south (southwest of Highway 407 and Markham Road)	Distribution Station	PHC F1 to F4, metals, inorganics, PCBs	Aerial Photographs, Markham interactive mapping, preliminary field reconnaissance	2	Transformer station. Storage of fuel and PCBs



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Property I.D.	Site Occupant /Address	Distance and Direction from 407 Transitway	Occupant	Potential Contaminants/ Issues of Concern *	Source	Property Level I.D. ¹	Comments
5	Markham Green Golf Club/120 Rouge Bank Drive, Markham	Adjacent south (between Markham Road and Ninth Line)	Markham Green Golf Club	BTEX, PHC F1 to F4, herbicides, pesticides	Aerial Photographs, Markham interactive mapping, preliminary field reconnaissance	3	Golf course
6	S Cleaners/82 Copper Creek Drive, Markham	50 m south (southeast of Highway 407 and Ninth Line)	S Cleaners	VOCs	Aerial Photographs, Markham interactive mapping, preliminary field reconnaissance	3	Dry Cleaners
7	Vacant/500 m east of York-Durham Line, south side of Highway 407, Pickering	Within study area (between York-Durham Line and North Road)	Vacant, former fill placement circa 2009	Metals, inorganics, PAHs	Google Earth Imagery, preliminary field reconnaissance	2	Fill of unknown origin and quality
8	Vehicle Storage/3550 North Road, Pickering	85 m north (northwest of Highway 407 and North Road)	Vehicle and equipment storage	VOCs, PHC F1 to F4, metals, inorganics	Aerial Photographs, Google Earth, preliminary field reconnaissance	3	Possible vehicle storage and maintenance



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Property I.D.	Site Occupant /Address	Distance and Direction from 407 Transitway	Occupant	Potential Contaminants/ Issues of Concern *	Source	Property Level I.D. ¹	Comments
9	Dutchmaster Nurseries Ltd./3735 Sideline 16, Brougham ON	Adjacent north of eastern limit	Nursery and Tree Spade Manufacturer	VOCs, PHC F1 to F4, metals, inorganics, herbicides, pesticides	Aerial Photographs, EcoLog ERIS Report, Google Earth, preliminary field reconnaissance	3	Fuel use and storage, herbicide/pesticide use and storage

* Preliminary issues based on the level of study carried out. Additional issues may be identified based on subsequent, more detailed, levels of study (Phase I ESA)

¹ 1 No additional investigation is recommended

2 Additional background investigations recommended to determine if subsurface environmental investigations are required

3 Additional subsurface environmental investigations recommended if property acquisition is required



4.0 SUMMARY AND DISCUSSION

Of the properties identified in Table 1 above, the following is a breakdown of recommended additional environmental assessment programs based on information obtained to date. The business names, addresses, and issues of potential environmental concern are outlined above.

- Level 2: four properties (Properties 1, 2, 4, and 7, Figure A) require further assessment to determine whether subsurface investigations would be warranted (i.e., a Phase I ESA is recommended).
- Level 3: five properties (Properties 3, 5, 6, 8, and 9, Figure A) require subsurface environmental investigation to determine whether soil and/or groundwater impacts exist at the properties.

Should impacts be identified during construction, which are not anticipated based on the evaluation completed above, an assessment will be conducted and appropriate steps will be taken following the MTO's Environmental Reference for Highway Design.

5.0 EXCESS MATERIAL MANAGEMENT

As per MTO objectives, to the extent possible, this project should strive for zero waste generation. Where recommendations for re-use of materials are made below, it should be noted that these recommendations are made from an environmental perspective only. The geotechnical and structural implications of the re-use of materials should be reviewed by individuals with the appropriate expertise in those areas.

Based on the review of the study area, wastes that may be generated by the project could consist of:

- Reclaimed asphalt pavement ("RAP") from milling of existing asphalt surfaces;
- Concrete, likely reinforced, from the removal of bridge or pavement structures;
- Manufactured wood waste from guide rails and the like removals; and,
- Scrap metal such as wire, corrugated steel pipe, and bridge guide rails.

RAP can be re-used on-site for a variety of purposes as part of the construction activities, including, but not necessarily limited to, shoulder treatments, general fill and sub-grade fill. Non-reinforced concrete can be broken up and re-used within the project limits. Manufactured wood waste will require off-site disposal at licensed receiving facilities. Natural wood waste may be left on-site within the right of way. Scrap metal should be collected for recycling at an off-site receiving facility.

6.0 LIMITATIONS AND USE OF REPORT

This report was prepared for the exclusive use of LGL Limited and the MTO. This report is based on preliminary and limited historical information and geological data obtained by Golder as described in this report. This study was completed on a regional scale through a review of existing available information and did not consist of site specific assessments. Additional issues of potential environmental concern may be identified upon completion of site specific Phase I and II Environmental Site Assessments ("ESAs").

This report is not intended to be utilized as supporting documentation for a Record of Site Condition under Ontario Regulation 153/04. If a Record of Site Condition is required for the properties within the study area and



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this report is to be used as part of the supporting documentation, it must be reviewed and updated by Golder. Additional environmental site assessment activities would be required to comply with Ontario Regulation 153/04.

We accept no responsibility for any deficiency, misstatements or inaccuracies contained in this report as a result of omission, misinterpretations or fraudulent acts of the persons contacted or contained in the information obtained as part of this work. Golder accepts no responsibility for any reduction in property value, either real or perceived, as a result of the reporting of factual information herein.

It should be noted that the results of an investigation of this nature should, in no way, be construed as a warranty that the Site is free from any and all contamination from past or current practices. This assessment was carried out using existing historical information as available from various agencies and no assurance is made regarding the accuracy or completeness of this information. No sampling of soil, groundwater, air emissions or gas was conducted.

If new information is discovered during future work, including excavations, borings or other studies, Golder Associates Ltd. should be requested to re-evaluate the conclusions presented in this report and to provide amendments as required.



Report Signature Page

GOLDER ASSOCIATES LTD.

Christi Groves, B.Sc.
Environmental Scientist

Shawn Lytle, P.Geo.
Principal

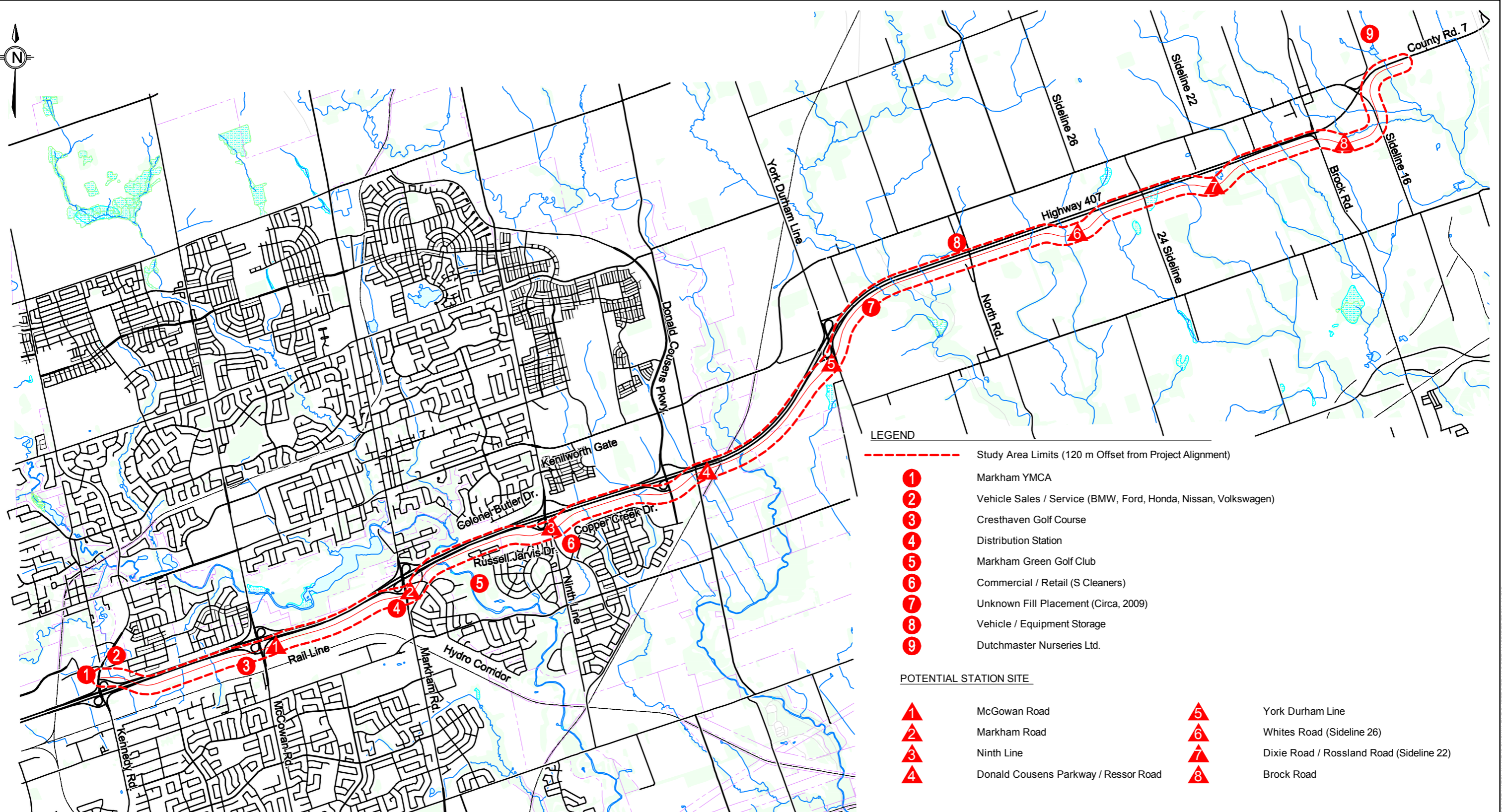
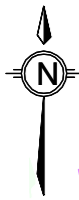
CLG/SDL/plc

Golder, Golder Associates and the GA globe design are trademarks of Golder Associates Corporation.



APPENDIX A

Figure



LEGEND

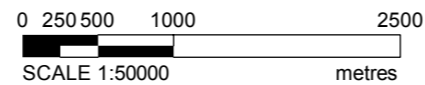
--- Study Area Limits (120 m Offset from Project Alignment)

- ① Markham YMCA
- ② Vehicle Sales / Service (BMW, Ford, Honda, Nissan, Volkswagen)
- ③ Cresthaven Golf Course
- ④ Distribution Station
- ⑤ Markham Green Golf Club
- ⑥ Commercial / Retail (S Cleaners)
- ⑦ Unknown Fill Placement (Circa, 2009)
- ⑧ Vehicle / Equipment Storage
- ⑨ Dutchmaster Nurseries Ltd.

POTENTIAL STATION SITE

- ▲1 McGowan Road
- ▲2 Markham Road
- ▲3 Ninth Line
- ▲4 Donald Cousens Parkway / Ressor Road
- ▲5 York Durham Line
- ▲6 Whites Road (Sideline 26)
- ▲7 Dixie Road / Rossland Road (Sideline 22)
- ▲8 Brock Road

Path:\golder\gis\gdb\BareCAD\Projects\2014\14-1181-0001\Highway407\Envi\AC_1_1 File Name: 141181001AC SITE.dwg



CLIENT
LGL LIMITED
ENVIRONMENTAL RESEARCH ASSOCIATES

CONSULTANT

YYYY-MM-DD	2015-05-29
PREPARED	STB
DESIGN	
REVIEW	
APPROVED	



PROJECT
TRANSITWAY 407
CITY OF MARKHAM

TITLE
AREA LOCATION MAP

PROJECT No.	Phase	Rev.	Figure
14-1181-0001	-	AC	A

25 mm IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B



APPENDIX B

Regulatory Responses

Groves, Christi

From: squibell@tssa.org on behalf of Public Information Services
<publicinformationservices@tssa.org>
Sent: Tuesday, June 23, 2015 1:08 PM
To: Groves, Christi
Subject: Re: records search - 14-1181-0001 (4000)

Hi Christi,

Thank you for your inquiry.

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

For a further search in our archives please submit your request in writing to Public Information Services via e-mail (publicinformationservices@tssa.org) or through mail along with a fee of \$56.50 (including HST) per location. The fee is payable with credit card (Visa or MasterCard) or with a Cheque made payable to TSSA.

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

Thank you and have a great day!

Regards,

Sarah Quibell

Public Information Services

TECHNICAL STANDARDS & SAFETY AUTHORITY
"Putting Public Safety First"
14th Floor, Centre Tower
3300 Bloor Street West
Toronto, ON M8X 2X4

www.tssa.org

Toll-Free: 1-877-682-8772

On Tue, Jun 23, 2015 at 1:03 PM, Groves, Christi <Christi_Groves@golder.com> wrote:

Hi there,

Can you conduct a search of your files for the following properties:

Markham, Ontario

99/101 YMCA Boulevard

7997 Kennedy Road

8111 Kennedy Road

7982 McCowan Road

7970 Markham Road

120 Rouge Bank Drive

82 Copper Creek Drive

North Road

And

3735 Sideline 16, Brougham ON

Thanks.

Christi

Christi Groves | Environmental Scientist | **Golder Associates Ltd.**

121 Commerce Park Drive, Unit L, Barrie, Ontario, Canada L4N 8X1

T: [+1 \(705\) 722 4492](tel:+17057224492) | **D:** [+1 \(705\) 722 4492 ext 6220](tel:+17057224492) | **F:** [+1 \(705\) 722 3786](tel:+17057223786) | **C:** [+1 \(705\) 718-1446](tel:+17057181446) | **E:**

Christi_Groves@golder.com | www.golder.com

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Groves, Christi

From: Payne, Mark <Mark.Payne@york.ca>
Sent: Wednesday, July 30, 2014 1:20 PM
To: Groves, Christi
Cc: ENV Website Inquiries; Weaver, Jennifer
Subject: RE: Contamination Overview Assessment - Hwy 407 Transitway - Kennedy Road to York-Durham Line - 14-1181-0001

Christi,

The Environmental Monitoring and Enforcement Team provides ESA related information for a fee of \$125 per property. Please contact Jennifer Weaver at 905 830 4444 x75048 for more information.

Thank you.

Mark Payne, MSc | Program Manager, Operations Maintenance and Monitoring, Environmental Services

The Regional Municipality of York | 17250 Yonge Street | Newmarket, ON L3Y 6Z1
905-830-4444 ext. 75194 | www.york.ca

Our Values: Integrity, Commitment, Accountability, Respect, Excellence

From: ENV_Reception **On Behalf Of** ENV Website Inquiries
Sent: Wednesday, July 30, 2014 11:36 AM
To: Payne, Mark
Subject: FW: Contamination Overview Assessment - Hwy 407 Transitway - Kennedy Road to York-Durham Line - 14-1181-0001

Good morning,

This email arrived through ENV Website Inquiries and I was wondering if this is an inquiry that you could answer? If you are able to reply to this email please copy **ENV Website Inquiries** with your response. If not, could you suggest where I might redirect this inquiry?

Thank you,

Irene Swan | Administrative Clerk Intermediate
Strategy & Business Planning | Environmental Services Department

The Regional Municipality of York | 17250 Yonge Street | Newmarket, ON L3Y 6Z1
905-830-4444 ext. 73000 | fax: 905-830-6927 | environmental.reception@york.ca | www.york.ca

Our Values: Integrity, Commitment, Accountability, Respect, Excellence



Please consider the environment before printing this email.

From: Groves, Christi [mailto:Christi_Groves@golder.com]

Sent: Wednesday, July 30, 2014 11:33 AM

To: ENV Website Inquiries

Cc: Flaherty, Sean; Patrick, Scott

Subject: Contamination Overview Assessment - Hwy 407 Transitway - Kennedy Road to York-Durham Line - 14-1181-0001

Hello,

Golder Associates Ltd. is currently completing a Contaminated Property Assessment within 500 m of the Highway 407 Corridor for the proposed Highway 407 Transit-way from Kennedy Road to east of Brock Road in Markham and Pickering, Ontario. The study area is partially contained within the Region of York.

It would be appreciated if you could conduct a review for any environmental information you may have on file pertaining to the study area including sewer use discharges/violations, waste disposal, filling activities, spills, site contamination, borehole logs, etc.

Thanks so much,

Christi Groves

Christi Groves (B.Sc. (Hons)) | Environmental Scientist | **Golder Associates Ltd.**

121 Commerce Park Drive, Unit L, Barrie, Ontario, Canada L4N 8X1

T: +1 (705) 722 4492 | **D:** +1 705 722 4492 ext 2220 | **F:** +1 (705) 722 3786 | **C:** +1 705 718 1446 | **E:**

Christi_Groves@golder.com | www.golder.com

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APPENDIX C

EcoLog ERIS Report



DATABASE REPORT



Project Property:

Highway 407 Transitway, Kennedy Road to Brock Road

P.O. Number

*Hwy 407 Transitway
Markham ON
14-1181-0001 (4000)*

Report Type:

Quote - Custom-Build Your Own Report

Order #:

20150604109

Requested by:

Golder Associates Ltd.

Date:

June 11, 2015

Ecolog ERIS Ltd.

Environmental Risk Information
Service Ltd. (ERIS)
A division of Glacier Media Inc.
P: 1.866.517.5204
E: info@erisinfo.com

www.erisinfo.com

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Executive Summary

Property Information:

Project Property: *Highway 407 Transitway, Kennedy Road to Brock Road
Hwy 407 Transitway Markham ON*

P.O. Number: *14-1181-0001 (4000)*

Order Information:

Order No.: *20150604109*

Date Requested: *11/06/2015*

Requested by: *Golder Associates Ltd.*

Report Type: *Quote - Custom-Build Your Own Report*

Additional Products:

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Boundary to 0.12km	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	117	117
CA	<i>Certificates of Approval</i>	Y	0	5	5
CFOT	<i>Commercial Fuel Oil Tanks</i>	Y	0	0	0
CHEM	<i>Chemical Register</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	17	17
EIIS	<i>Environmental Issues Inventory System</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	2	2
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
NCPL	<i>Non-Compliance Reports</i>	Y	0	0	0
NDFT	<i>National Defence & Canadian Forces Fuel Tanks</i>	Y	0	0	0
NDSP	<i>National Defence & Canadian Forces Spills</i>	Y	0	0	0
NDWD	<i>National Defence & Canadian Forces Waste Disposal Sites</i>	Y	0	0	0

Database	Name	Searched	Project Property	Boundary to 0.12km	Total
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	0	0
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	1	1
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	47	47
Total:			0	189	189

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

Executive Summary: Site Report Summary - Surrounding Properties

<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>
1	EHS		Parcel 6 Markham, Pickering ON	NNE/79.6	195.26	28
2	EHS		Parcel 5 Markham ON	WSW/59.5	184.40	28
3	WWIS		lot 8 con 10 ON	SW/104.9	182.54	28
4	WWIS		lot 8 con 10 ON	WSW/95.8	185.37	29
5	WWIS		lot 10 con 11 ON	NE/116.5	196.84	29
6	WWIS		Markham ON	WSW/120.1	185.62	30
7	BORE		ON	WSW/15.9	183.98	31
7	BORE		ON	WSW/15.9	184.01	31
8	WWIS		lot 7 con 10 MARKHAM ON	WSW/53.1	182.66	32
9	WWIS		lot 35 con 5 ON	NE/74.1	196.84	32
10	BORE		ON	NNE/117.2	196.84	33
11	BORE		ON	NNE/110.4	196.84	33
12	WWIS		lot 35 con 5 ON	NE/8.4	196.84	34
12	WWIS		lot 35 con 5 ON	NE/8.4	196.84	34
12	WWIS		lot 35 con 5 ON	NE/8.4	196.84	35
12	WWIS		lot 35 con 5 ON	NE/8.4	196.84	36

Map Key	DB	Company/Site Name	Address	Dir/Dist m	Elev diff m	Page Number
12	WWIS		lot 35 con 5 ON	NE/8.4	196.84	36
12	WWIS		lot 35 con 5 ON	NE/8.4	196.84	36
12	WWIS		lot 35 con 5 ON	NE/8.4	196.84	37
13	WWIS		lot 34 con 5 ON	NE/46.2	196.84	37
14	EHS		Parcel 7 Markham, Pickering ON	NE/13.7	196.84	38
15	WWIS		lot 8 con 9 ON	WSW/98.6	181.84	38
15	WWIS		lot 8 con 9 ON	WSW/98.6	181.84	38
15	WWIS		lot 8 con 9 ON	WSW/98.6	181.84	39
15	WWIS		lot 8 con 9 ON	WSW/98.6	181.84	39
15	WWIS		lot 8 con 9 ON	WSW/98.6	181.84	40
16	EHS		9th Line / 14th Ave Markham ON	WSW/21.7	182.39	40
17	EHS		9th Line & 14th Ave Markham ON	WSW/90.9	181.84	41
18	BORE		ON	NE/48.0	191.14	41
19	BORE		ON	NE/45.6	190.72	41
20	BORE		ON	NE/87.0	190.64	42
21	BORE		ON	NE/84.5	189.81	42
22	BORE		ON	NE/34.6	188.77	43
23	BORE		ON	NE/47.3	188.65	44
24	BORE		ON	NE/73.9	188.47	44

<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>
25	BORE		ON	NE/83.6	188.43	45
26	BORE		ON	NE/41.8	187.68	46
27	BORE		ON	NE/51.1	187.55	46
28	BORE		ON	NE/78.2	187.28	47
29	BORE		ON	NE/81.3	187.25	48
30	BORE		ON	NE/92.9	187.22	49
31	BORE		ON	NE/46.7	187.20	50
32	BORE		ON	NE/55.8	187.15	50
33	BORE		ON	NE/94.9	186.78	51
34	BORE		ON	NE/86.0	186.77	52
35	BORE		ON	NE/50.6	186.30	53
36	BORE		ON	NE/60.6	186.29	54
37	BORE		ON	NE/100.2	185.79	54
38	BORE		ON	NE/59.3	185.57	55
39	BORE		ON	NE/96.1	185.16	56
40	BORE		ON	NE/59.2	183.57	56
41	BORE		ON	NE/99.9	183.10	57
42	EHS		Copper Creek Drive Markham ON	WSW/111.8	181.84	58
43	BORE		ON	NE/60.7	183.09	58

<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>
44	BORE		ON	NE/103.8	182.55	59
45	BORE		ON	NE/60.6	182.54	59
46	BORE		ON	NE/70.1	182.42	60
47	BORE		ON	NE/43.6	183.42	61
48	BORE		ON	NE/57.6	182.46	61
49	BORE		ON	NE/95.9	182.24	62
50	BORE		ON	NE/108.0	182.11	63
51	BORE		ON	NE/71.8	182.27	64
52	BORE		ON	NE/109.4	182.04	64
53	BORE		ON	NE/102.7	182.01	65
54	EHS		Parcel 4 Markham ON	WSW/70.8	182.41	66
55	BORE		ON	NE/114.1	182.60	66
56	BORE		ON	NE/104.7	182.31	66
57	BORE		ON	NE/105.1	181.92	67
58	BORE		ON	NE/108.5	182.17	67
59	BORE		ON	NE/100.0	181.99	68
60	BORE		ON	NE/60.7	182.15	68
61	BORE		ON	NE/33.1	181.88	69
62	BORE		ON	NE/100.0	181.84	69

<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>
63	BORE		ON	NE/63.7	181.84	70
64	BORE		ON	NE/99.7	181.84	70
65	BORE		ON	NE/58.4	181.84	71
66	BORE		ON	NE/57.7	181.84	71
67	BORE		ON	NE/76.9	181.84	72
68	BORE		ON	NE/97.4	181.84	73
69	BORE		ON	NE/59.8	181.84	73
70	BORE		ON	NE/98.9	181.84	74
71	BORE		ON	NE/58.6	181.84	74
72	BORE		ON	NE/58.5	181.82	75
73	BORE		ON	NE/78.6	181.81	75
74	BORE		ON	NE/99.4	181.83	76
75	CA	MARKHAM GREEN INC.	PT.LOTS 5-8/CONC. 8 MARKHAM ON	WSW/14.2	173.99	76
75	CA	MARKHAM GREEN INC.	PT.LOTS 5-8, CONC. 8 MARKHAM ON	WSW/14.2	174.00	76
75	GEN	MARKHAM GREEN INC.	MARKHAM GREEN GOLF & COUNTRYCLUB 8028 NINTH LINE MARKHAM ON L6B 1A8	WSW/14.2	174.00	77
75	GEN	MARKHAM GREEN INC. 21-359	8028 NINTH LINE MARKHAM ON L6B 1A8	WSW/14.2	174.00	77
76	WWIS		lot 7 con 8 ON	WSW/119.7	171.90	77
77	EHS		Parcel 8 Pickering ON	NE/80.8	198.60	78
78	BORE		ON	NE/30.0	199.13	78

Map Key	DB	Company/Site Name	Address	Dir/Dist m	Elev diff m	Page Number
79	BORE		ON	NE/119.1	200.76	79
80	BORE		ON	NE/74.4	200.64	79
81	BORE		ON	NE/27.2	201.41	80
82	BORE		ON	NE/72.7	201.95	80
83	BORE		ON	NE/75.1	202.03	81
84	BORE		ON	NE/25.7	201.32	81
85	BORE		ON	NE/71.9	201.99	82
86	BORE		ON	NE/117.8	202.81	82
87	BORE		ON	NE/69.0	201.94	82
88	BORE		ON	NE/71.6	202.01	83
89	BORE		ON	NE/117.2	203.06	83
90	EHS		Parcel 3 Markham ON	WSW/71.4	169.44	84
91	WWIS		lot 8 con 8 ON	WSW/100.8	168.00	84
92	WWIS		lot 8 con 8 ON	WSW/102.7	168.01	85
92	WWIS		lot 8 con 8 ON	WSW/102.7	168.01	85
93	WWIS		lot 7 con 8 ON	WSW/44.8	166.84	86
94	BORE		ON	WSW/73.4	166.84	86
95	BORE		ON	WSW/96.6	166.84	87
96	BORE		ON	WSW/68.2	166.84	87

Map Key	DB	Company/Site Name	Address	Dir/Dist m	Elev diff m	Page Number
97	BORE		ON	WSW/84.7	166.84	88
98	BORE		ON	WSW/98.3	166.84	88
99	BORE		ON	WSW/71.4	166.84	89
100	EHS		Parcel 9 Pickering ON	NE/108.1	211.44	90
101	WWIS		lot 8 con 8 MARKHAM ON	WSW/110.8	166.84	90
102	BORE		ON	WSW/98.2	166.84	90
103	BORE		ON	WSW/60.6	166.84	91
104	WWIS		lot 7 con 8 ON	WSW/115.4	166.84	92
105	BORE		ON	WSW/57.5	166.84	92
106	BORE		ON	WSW/107.5	166.84	92
107	BORE		ON	WSW/86.6	166.84	93
108	BORE		ON	WSW/94.9	166.84	94
109	WWIS		lot 7 con 8 ON	WSW/92.2	167.35	95
110	BORE		ON	WSW/34.2	167.11	95
111	WWIS		lot 7 con 8 ON	WSW/91.0	167.66	95
112	WWIS		lot 7 con 8 ON	WSW/66.9	167.82	96
113	WWIS		lot 7 con 8 ON	WSW/83.1	168.34	96
114	WWIS		Markham ON	WSW/80.2	168.58	97
115	CA	GLITTER DEVELOPMENT CORP.	CRESANE ST./RIBSTON CRES. MARKHAM TOWN ON	WSW/114.3	169.41	98

Map Key	DB	Company/Site Name	Address	Dir/Dist m	Elev diff m	Page Number
115	CA	GLITTER DEVELOPMENT CORP.	CRESANE ST./RIBSTON CRES. MARKHAM TOWN ON	WSW/114.3	169.41	98
116	WWIS		lot 7 con 8 ON	WSW/45.7	168.97	98
117	BORE		ON	ENE/42.3	212.84	99
118	BORE		ON	ENE/87.3	212.84	99
119	BORE		ON	ENE/62.2	212.84	100
120	BORE		ON	ENE/60.8	212.84	100
121	BORE		ON	ENE/87.9	212.84	101
122	BORE		ON	ENE/42.6	212.84	101
123	BORE		ON	ENE/87.8	212.84	102
124	EHS		Parcel 10 Pickering ON	ENE/102.0	212.84	102
125	BORE		ON	WSW/102.7	176.28	102
126	EHS		Parcel 1 Markham ON	WSW/114.7	178.19	103
127	BORE		ON	ENE/108.6	198.55	103
128	BORE		ON	ENE/89.1	197.84	103
129	BORE		ON	ENE/98.7	197.84	104
130	BORE		ON	ENE/50.9	197.84	104
131	BORE		ON	ENE/78.3	197.51	105
132	BORE		ON	ENE/114.6	196.98	105
133	BORE		ON	ENE/84.7	196.84	106

Map Key	DB	Company/Site Name	Address	Dir/Dist m	Elev diff m	Page Number
134	CA	R.M. OF YORK	L.7&8,C.6/MCCOWAN RD/HWY.407 MARKHAM TOWN ON	WSW/118.9	181.48	10
134	SPL	Markham Stouffville Hospital	Hwy 407 @ McCowan Rd. Markham ON	WSW/118.9	181.48	107
135	WWIS		lot 7 con 6 ON	WSW/67.3	182.40	107
136	BORE		ON	ENE/86.2	190.06	108
137	BORE		ON	ENE/120.3	190.91	108
138	BORE		ON	ENE/82.6	189.59	109
139	BORE		ON	ENE/90.3	189.74	109
140	BORE		ON	ENE/119.2	190.13	110
141	BORE		ON	ENE/80.5	188.56	110
142	BORE		ON	ENE/87.6	188.73	111
143	EHS		Parcel 11 Pickering ON	ENE/113.0	189.21	111
144	BORE		ON	ENE/114.9	188.93	111
145	BORE		ON	ENE/88.0	188.01	112
146	WWIS		lot 7 con 6 ON	WSW/94.9	181.84	113
147	WWIS		lot 7 con 6 ON	WSW/101.9	181.83	113
148	EHS		3440 Brock Rd Pickering ON L1V 2P8	ENE/8.7	181.84	114
149	WWIS		lot 20 con 5 PICKERING ON	ENE/2.5	181.84	114
150	WWIS		lot 19 con 5 PICKERING ON	ENE/16.7	181.84	114
151	BORE		ON	ENE/67.9	181.86	115

Map Key	DB	Company/Site Name	Address	Dir/Dist m	Elev diff m	Page Number
152	BORE		ON	ENE/84.4	181.97	115
153	BORE		ON	ENE/102.8	182.14	116
154	BORE		ON	ENE/105.4	182.06	116
155	BORE		ON	ENE/87.6	181.84	117
156	WWIS		lot 19 con 5 ON	ENE/65.6	181.84	118
157	BORE		ON	ENE/80.0	164.62	118
158	BORE		ON	ENE/9.2	159.67	119
159	BORE		ON	ENE/6.4	159.79	119
160	EHS		Parcel 12 Pickering ON	ENE/53.5	162.48	120
161	BORE		ON	ENE/93.1	156.15	120
162	EHS		East Side of Kennedy Road, North of Highway 407 Markham ON	WSW/63.0	181.49	121
163	WWIS		lot 16 con 5 ON	ENE/6.4	162.02	121
164	WWIS		lot 16 con 5 PICKERING ON	ENE/42.4	159.84	122
165	WWIS		lot 15 con 5 BROUGHAM ON	ENE/54.1	160.41	122
166	WWIS		lot 15 con 5 BROUGHAM ON	ENE/63.1	160.80	123
166	WWIS		lot 15 con 5 BROUGHAM ON	ENE/63.1	160.80	123
167	EHS		7997 Kennedy Road Markham ON	WSW/101.3	180.26	124
168	WWIS		lot 8 con 6 ON	WSW/54.7	180.74	124
169	WWIS		ON	WSW/9.0	181.38	124

<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>
170	WWIS		ON	WSW/93.5	182.26	125
171	WWIS		lot 8 con 5 ON	WSW/36.3	181.07	125

Executive Summary: Summary By Data Source

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2014 has found that there are 117 BORE site(s) within approximately 0.12 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance m</u>	<u>Map Key</u>
ON		15.9	<u>7</u>
ON		15.9	<u>7</u>
ON		117.2	<u>10</u>
ON		110.4	<u>11</u>
ON		48.0	<u>18</u>
ON		45.6	<u>19</u>
ON		87.0	<u>20</u>
ON		84.5	<u>21</u>
ON		34.6	<u>22</u>
ON		47.3	<u>23</u>
ON		73.9	<u>24</u>
ON		83.6	<u>25</u>
ON		41.8	<u>26</u>
ON		51.1	<u>27</u>
ON		78.2	<u>28</u>
ON		81.3	<u>29</u>
ON		92.9	<u>30</u>
ON		46.7	<u>31</u>
ON		55.8	<u>32</u>

<u>Site</u>	<u>Address</u>	<u>Distance m</u>	<u>Map Key</u>
	ON	94.9	<u>33</u>
	ON	86.0	<u>34</u>
	ON	50.6	<u>35</u>
	ON	60.6	<u>36</u>
	ON	100.2	<u>37</u>
	ON	59.3	<u>38</u>
	ON	96.1	<u>39</u>
	ON	59.2	<u>40</u>
	ON	99.9	<u>41</u>
	ON	60.7	<u>43</u>
	ON	103.8	<u>44</u>
	ON	60.6	<u>45</u>
	ON	70.1	<u>46</u>
	ON	43.6	<u>47</u>
	ON	57.6	<u>48</u>
	ON	95.9	<u>49</u>
	ON	108.0	<u>50</u>
	ON	71.8	<u>51</u>
	ON	109.4	<u>52</u>
	ON	102.7	<u>53</u>
	ON	114.1	<u>55</u>
	ON	104.7	<u>56</u>
	ON	105.1	<u>57</u>
	ON	108.5	<u>58</u>

<u>Site</u>	<u>Address</u>	<u>Distance m</u>	<u>Map Key</u>
	ON	100.0	<u>59</u>
	ON	60.7	<u>60</u>
	ON	33.1	<u>61</u>
	ON	100.0	<u>62</u>
	ON	63.7	<u>63</u>
	ON	99.7	<u>64</u>
	ON	58.4	<u>65</u>
	ON	57.7	<u>66</u>
	ON	76.9	<u>67</u>
	ON	97.4	<u>68</u>
	ON	59.8	<u>69</u>
	ON	98.9	<u>70</u>
	ON	58.6	<u>71</u>
	ON	58.5	<u>72</u>
	ON	78.6	<u>73</u>
	ON	99.4	<u>74</u>
	ON	30.0	<u>78</u>
	ON	119.1	<u>79</u>
	ON	74.4	<u>80</u>
	ON	27.2	<u>81</u>
	ON	72.7	<u>82</u>
	ON	75.1	<u>83</u>
	ON	25.7	<u>84</u>
	ON	71.9	<u>85</u>

<u>Site</u>	<u>Address</u>	<u>Distance m</u>	<u>Map Key</u>
	ON	117.8	<u>86</u>
	ON	69.0	<u>87</u>
	ON	71.6	<u>88</u>
	ON	117.2	<u>89</u>
	ON	73.4	<u>94</u>
	ON	96.6	<u>95</u>
	ON	68.2	<u>96</u>
	ON	84.7	<u>97</u>
	ON	98.3	<u>98</u>
	ON	71.4	<u>99</u>
	ON	98.2	<u>102</u>
	ON	60.6	<u>103</u>
	ON	57.5	<u>105</u>
	ON	107.5	<u>106</u>
	ON	86.6	<u>107</u>
	ON	94.9	<u>108</u>
	ON	34.2	<u>110</u>
	ON	42.3	<u>117</u>
	ON	87.3	<u>118</u>
	ON	62.2	<u>119</u>
	ON	60.8	<u>120</u>
	ON	87.9	<u>121</u>
	ON	42.6	<u>122</u>
	ON	87.8	<u>123</u>

<u>Site</u>	<u>Address</u>	<u>Distance m</u>	<u>Map Key</u>
	ON	102.7	125
	ON	108.6	127
	ON	89.1	128
	ON	98.7	129
	ON	50.9	130
	ON	78.3	131
	ON	114.6	132
	ON	84.7	133
	ON	86.2	136
	ON	120.3	137
	ON	82.6	138
	ON	90.3	139
	ON	119.2	140
	ON	80.5	141
	ON	87.6	142
	ON	114.9	144
	ON	88.0	145
	ON	67.9	151
	ON	84.4	152
	ON	102.8	153
	ON	105.4	154
	ON	87.6	155
	ON	80.0	157
	ON	9.2	158

<u>Site</u>	<u>Address</u>	<u>Distance m</u>	<u>Map Key</u>
	ON	6.4	159
	ON	93.1	161

CA - Certificates of Approval

A search of the CA database, dated 1985-Oct 30, 2011* has found that there are 5 CA site(s) within approximately 0.12 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance m</u>	<u>Map Key</u>
MARKHAM GREEN INC.	PT.LOTS 5-8/CONC. 8 MARKHAM ON	14.2	75
MARKHAM GREEN INC.	PT.LOTS 5-8, CONC. 8 MARKHAM ON	14.2	75
GLITTER DEVELOPMENT CORP.	CRESANE ST./RIBSTON CRES. MARKHAM TOWN ON	114.3	115
GLITTER DEVELOPMENT CORP.	CRESANE ST./RIBSTON CRES. MARKHAM TOWN ON	114.3	115
R.M. OF YORK	L.7&8,C.6/MCCOWAN RD/HWY.407 MARKHAM TOWN ON	118.9	134

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Aug 2014 has found that there are 17 EHS site(s) within approximately 0.12 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance m</u>	<u>Map Key</u>
	Parcel 6 Markham, Pickering ON	79.6	1
	Parcel 5 Markham ON	59.5	2
	Parcel 7 Markham, Pickering ON	13.7	14
	9th Line / 14th Ave Markham ON	21.7	16
	9th Line & 14th Ave Markham ON	90.9	17
	Copper Creek Drive Markham ON	111.8	42
	Parcel 4 Markham ON	70.8	54
	Parcel 8 Pickering ON	80.8	77
	Parcel 3 Markham ON	71.4	90

<u>Site</u>	<u>Address</u>	<u>Distance m</u>	<u>Map Key</u>
	Parcel 9 Pickering ON	108.1	100
	Parcel 10 Pickering ON	102.0	124
	Parcel 1 Markham ON	114.7	126
	Parcel 11 Pickering ON	113.0	143
	3440 Brock Rd Pickering ON L1V 2P8	8.7	148
	Parcel 12 Pickering ON	53.5	160
	East Side of Kennedy Road, North of Highway 407 Markham ON	63.0	162
	7997 Kennedy Road Markham ON	101.3	167

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Apr 2014 has found that there are 2 GEN site(s) within approximately 0.12 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance m</u>	<u>Map Key</u>
MARKHAM GREEN INC.	MARKHAM GREEN GOLF & COUNTRYCLUB 8028 NINTH LINE MARKHAM ON L6B 1A8	14.2	75
MARKHAM GREEN INC. 21-359	8028 NINTH LINE MARKHAM ON L6B 1A8	14.2	75

SPL - Ontario Spills

A search of the SPL database, dated 1988-Feb 2014 has found that there are 1 SPL site(s) within approximately 0.12 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance m</u>	<u>Map Key</u>
Markham Stouffville Hospital	Hwy 407 @ McCowan Rd. Markham ON	118.9	134

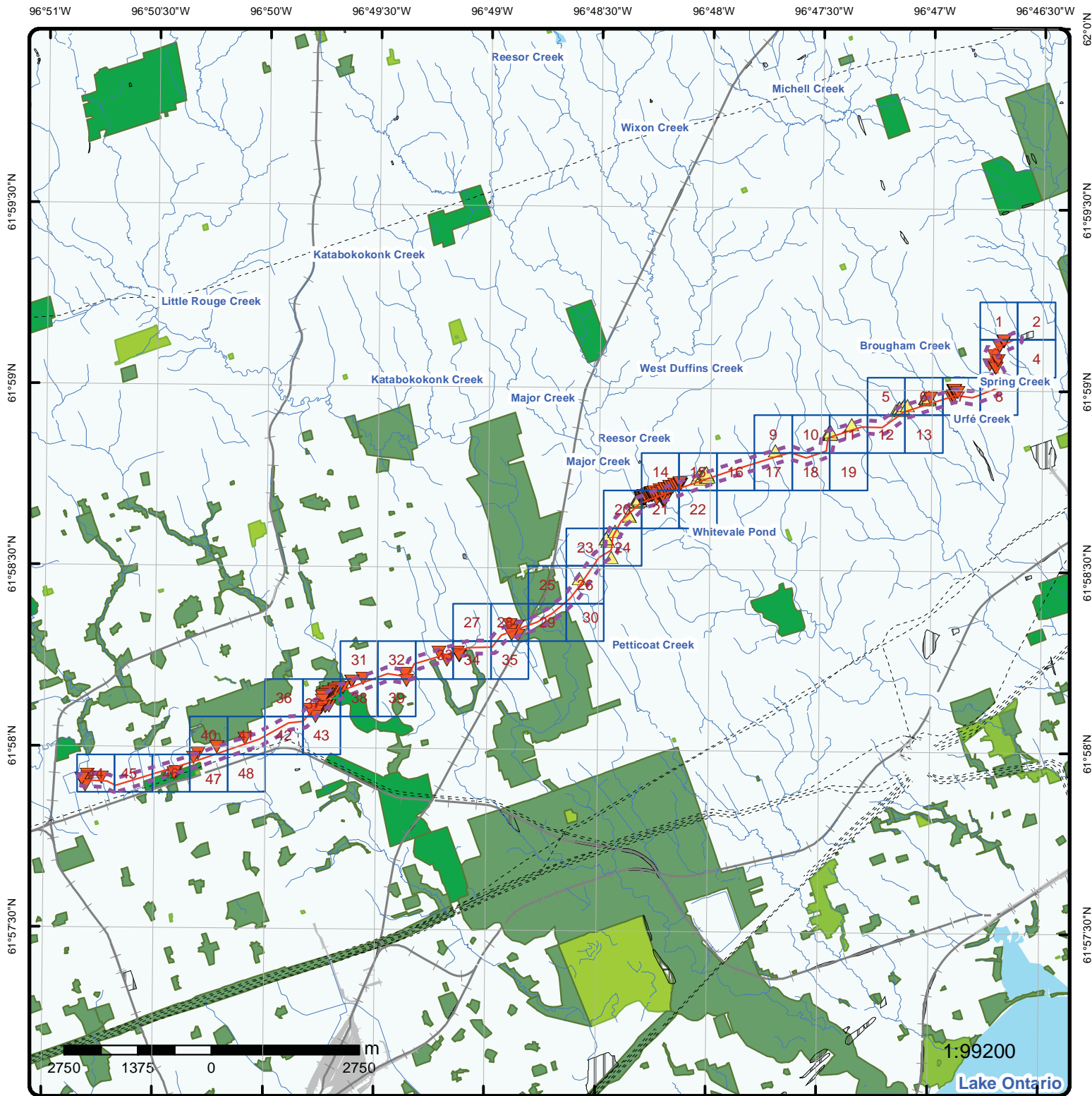
WWIS - Water Well Information System

A search of the WWIS database, dated 1955-Mar 2014 has found that there are 47 WWIS site(s) within approximately 0.12 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance m</u>	<u>Map Key</u>
	lot 8 con 10 ON	104.9	3

<u>Site</u>	<u>Address</u>	<u>Distance m</u>	<u>Map Key</u>
	lot 8 con 10 ON	95.8	<u>4</u>
	lot 10 con 11 ON	116.5	<u>5</u>
	Markham ON	120.1	<u>6</u>
	lot 7 con 10 MARKHAM ON	53.1	<u>8</u>
	lot 35 con 5 ON	74.1	<u>9</u>
	lot 35 con 5 ON	8.4	<u>12</u>
	lot 35 con 5 ON	8.4	<u>12</u>
	lot 35 con 5 ON	8.4	<u>12</u>
	lot 35 con 5 ON	8.4	<u>12</u>
	lot 35 con 5 ON	8.4	<u>12</u>
	lot 35 con 5 ON	8.4	<u>12</u>
	lot 35 con 5 ON	8.4	<u>12</u>
	lot 34 con 5 ON	46.2	<u>13</u>
	lot 8 con 9 ON	98.6	<u>15</u>
	lot 8 con 9 ON	98.6	<u>15</u>
	lot 8 con 9 ON	98.6	<u>15</u>
	lot 8 con 9 ON	98.6	<u>15</u>
	lot 8 con 9 ON	98.6	<u>15</u>
	lot 7 con 8 ON	119.7	<u>76</u>
	lot 8 con 8 ON	100.8	<u>91</u>
	lot 8 con 8 ON	102.7	<u>92</u>
	lot 8 con 8 ON	102.7	<u>92</u>
	lot 7 con 8 ON	44.8	<u>93</u>
	lot 8 con 8 MARKHAM ON	110.8	<u>101</u>

<u>Site</u>	<u>Address</u>	<u>Distance m</u>	<u>Map Key</u>
	lot 7 con 8 ON	115.4	104
	lot 7 con 8 ON	92.2	109
	lot 7 con 8 ON	91.0	111
	lot 7 con 8 ON	66.9	112
	lot 7 con 8 ON	83.1	113
		80.2	114
	Markham ON		
	lot 7 con 8 ON	45.7	116
	lot 7 con 6 ON	67.3	135
	lot 7 con 6 ON	94.9	146
	lot 7 con 6 ON	101.9	147
	lot 20 con 5 PICKERING ON	2.5	149
	lot 19 con 5 PICKERING ON	16.7	150
	lot 19 con 5 ON	65.6	156
	lot 16 con 5 ON	6.4	163
	lot 16 con 5 PICKERING ON	42.4	164
	lot 15 con 5 BROUGHAM ON	54.1	165
	lot 15 con 5 BROUGHAM ON	63.1	166
	lot 15 con 5 BROUGHAM ON	63.1	166
	lot 8 con 6 ON	54.7	168
		9.0	169
	ON		
		93.5	170
	ON		
	lot 8 con 5 ON	36.3	171

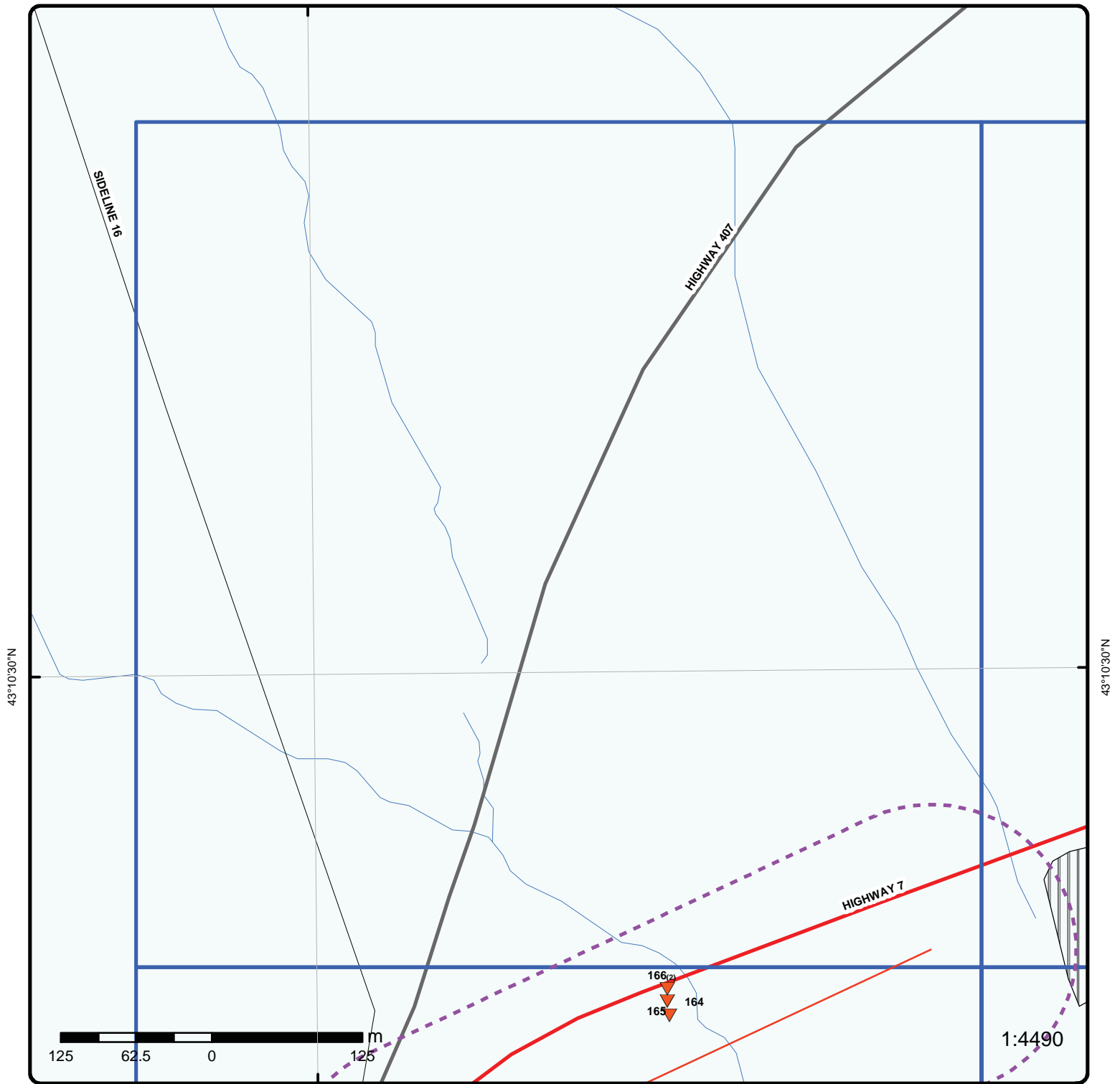


Map

Order No: 20150604109

Address: Hwy 407 Transitway, Markham, ON

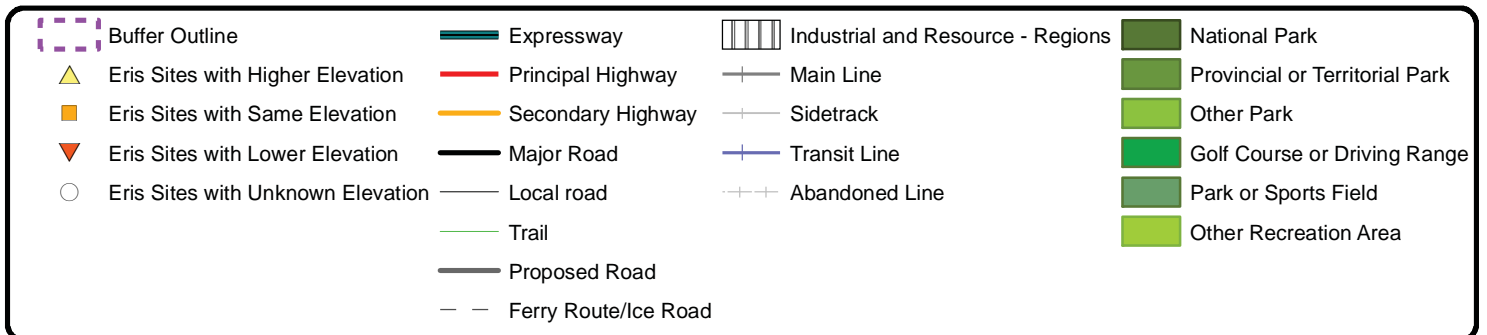
- | | | |
|-----------------------------------|-----------------------------------|--------------------------------|
| Project Property | Industrial and Resource - Regions | National Park |
| Buffer Outline | Main Line | Provincial or Territorial Park |
| Eris Sites with Higher Elevation | Sidetrack | Other Park |
| Eris Sites with Same Elevation | Transit Line | Golf Course or Driving Range |
| Eris Sites with Lower Elevation | Abandoned Line | Park or Sports Field |
| Eris Sites with Unknown Elevation | | Other Recreation Area |

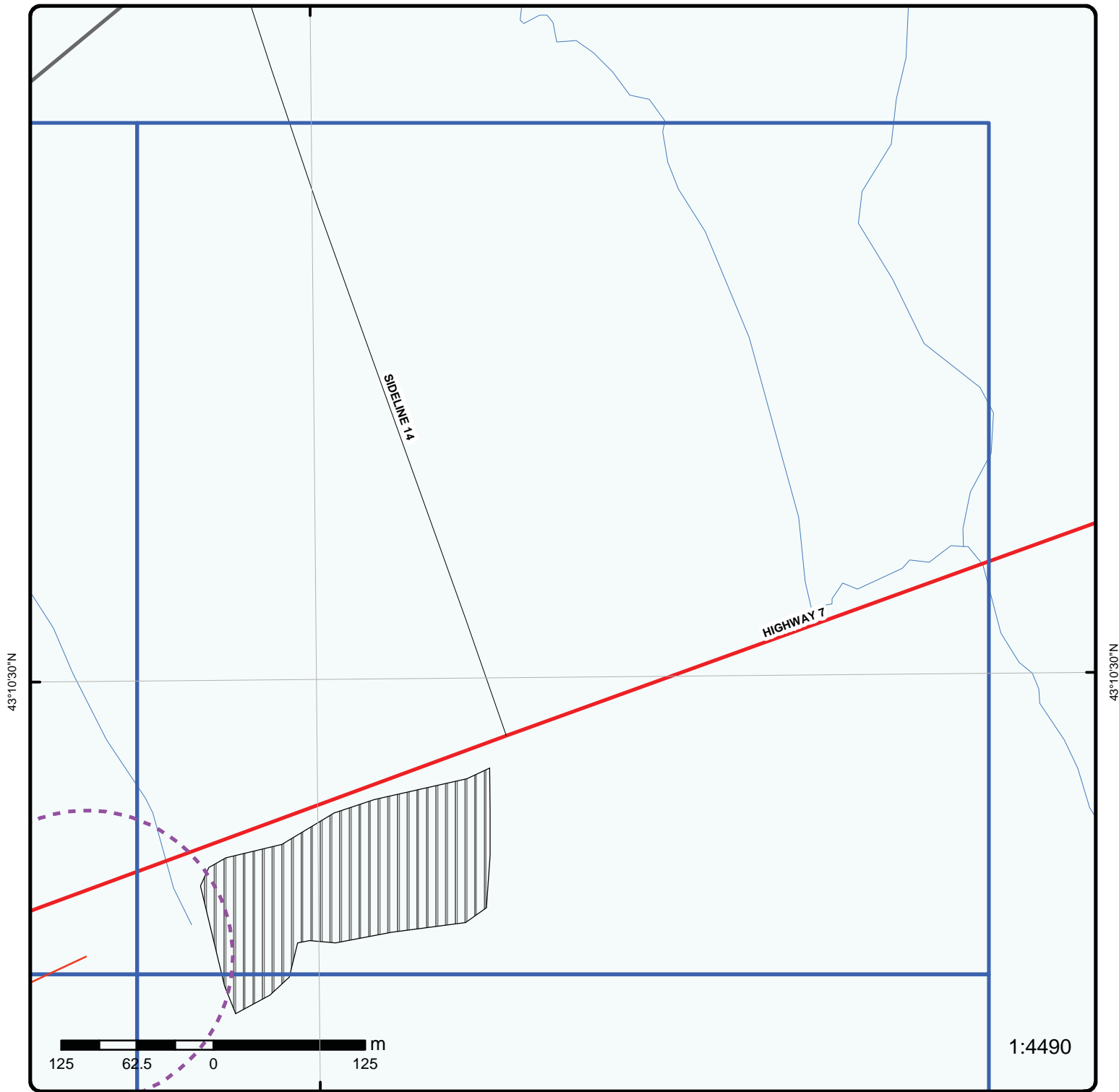


Grid 1

Order No: 20150604109

Address: Hwy 407 Transitway, Markham, ON

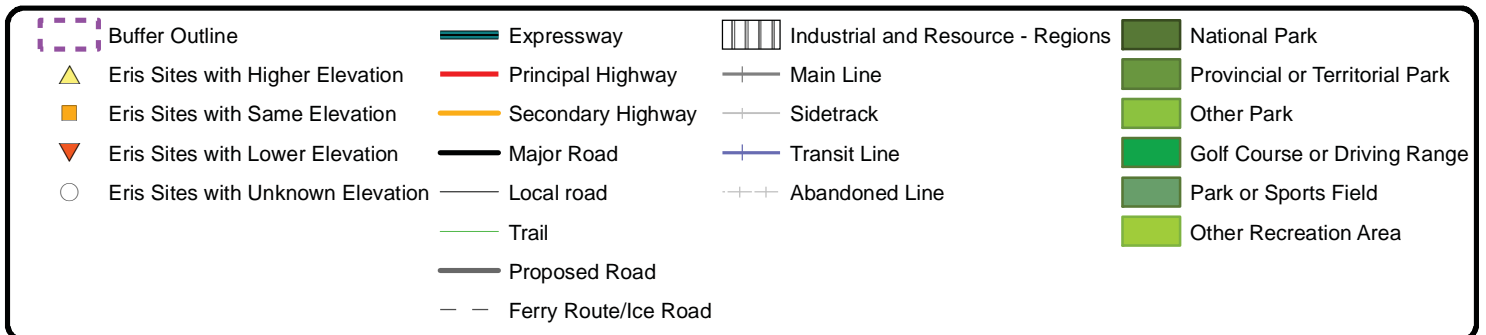




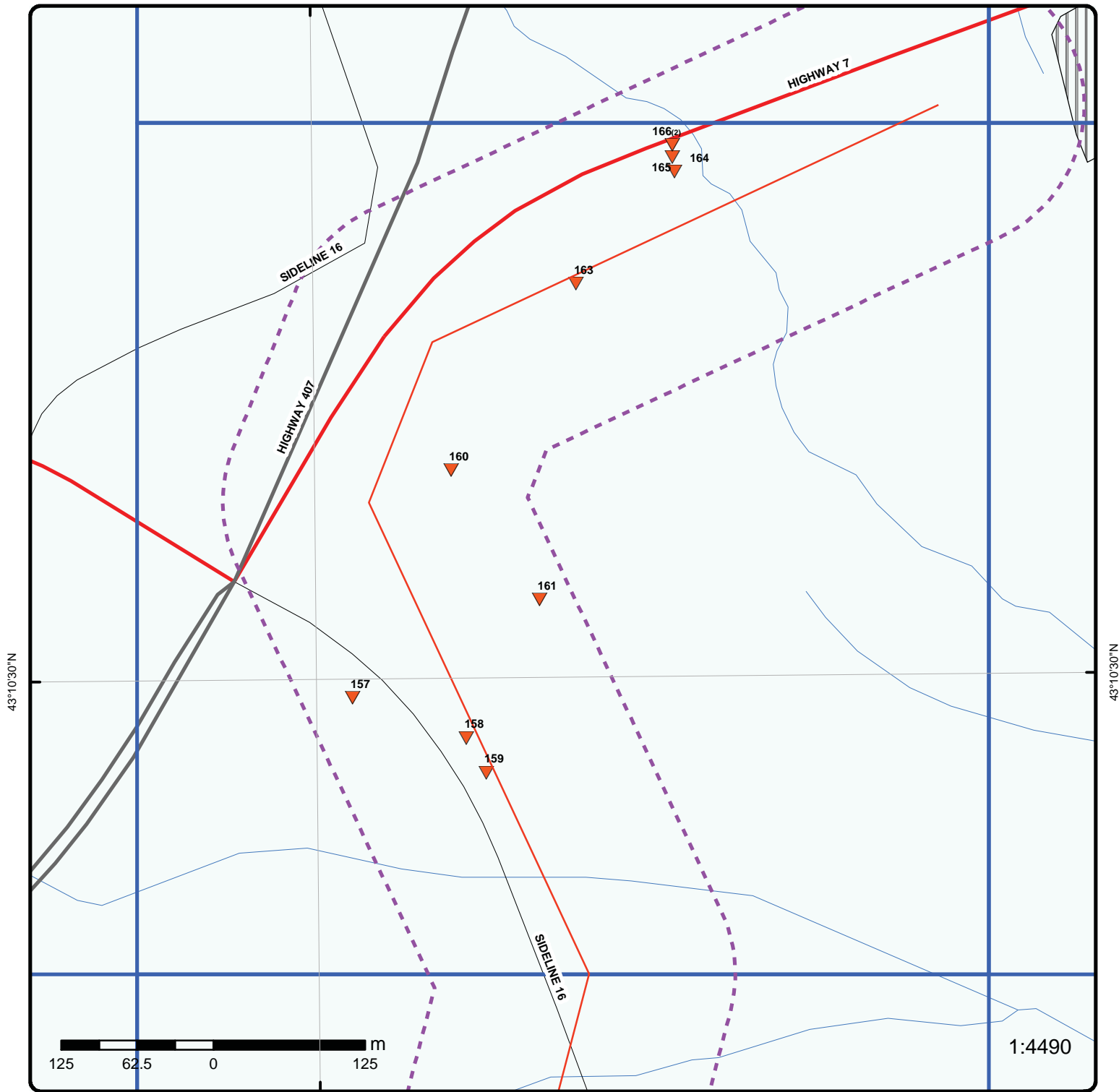
Grid 2

Order No: 20150604109

Address: Hwy 407 Transitway, Markham, ON



80°14'W



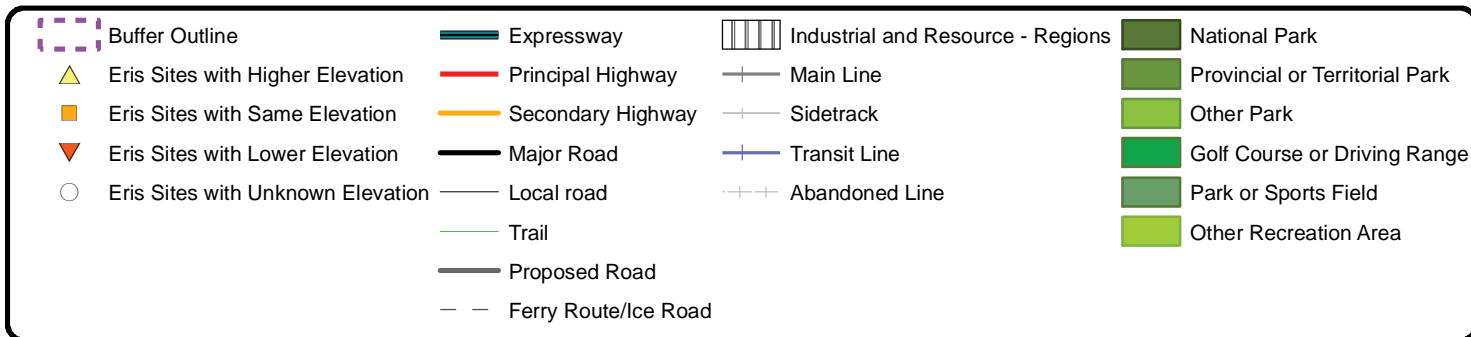
43°10'30"N

43°10'30"N

Grid 3

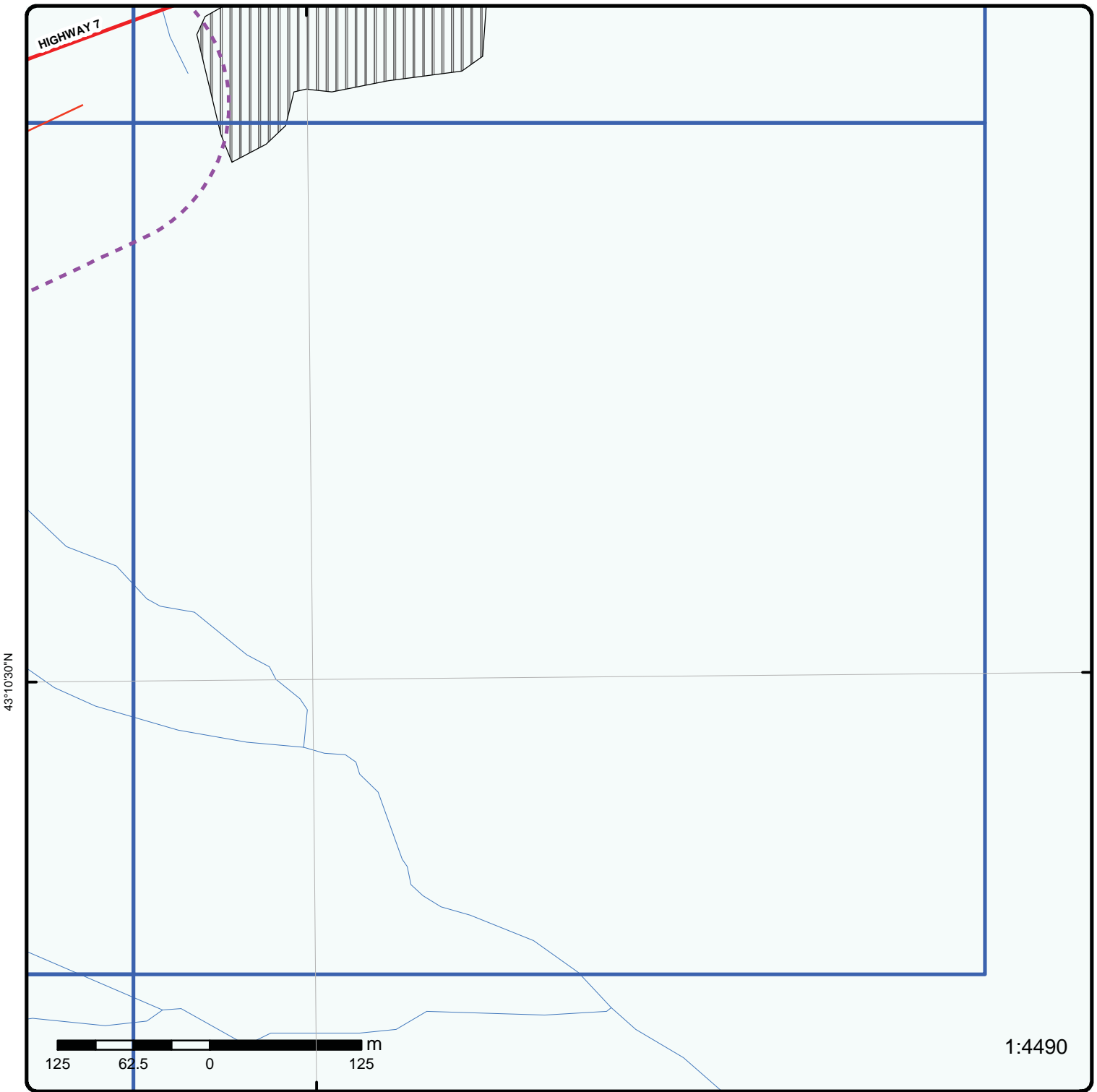
Order No: 20150604109

Address: Hwy 407 Transitway, Markham, ON



80°14'W

HIGHWAY 7



43°10'30"N

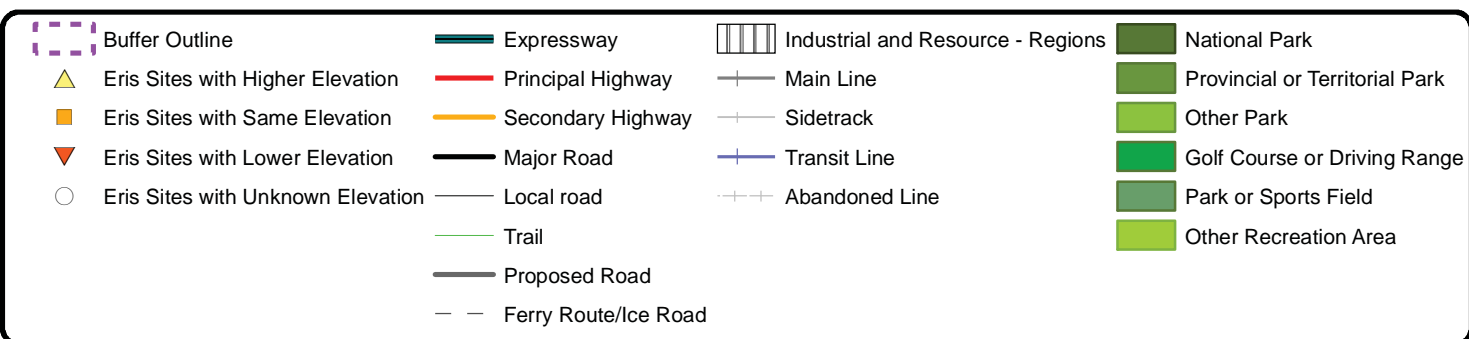
43°10'30"N

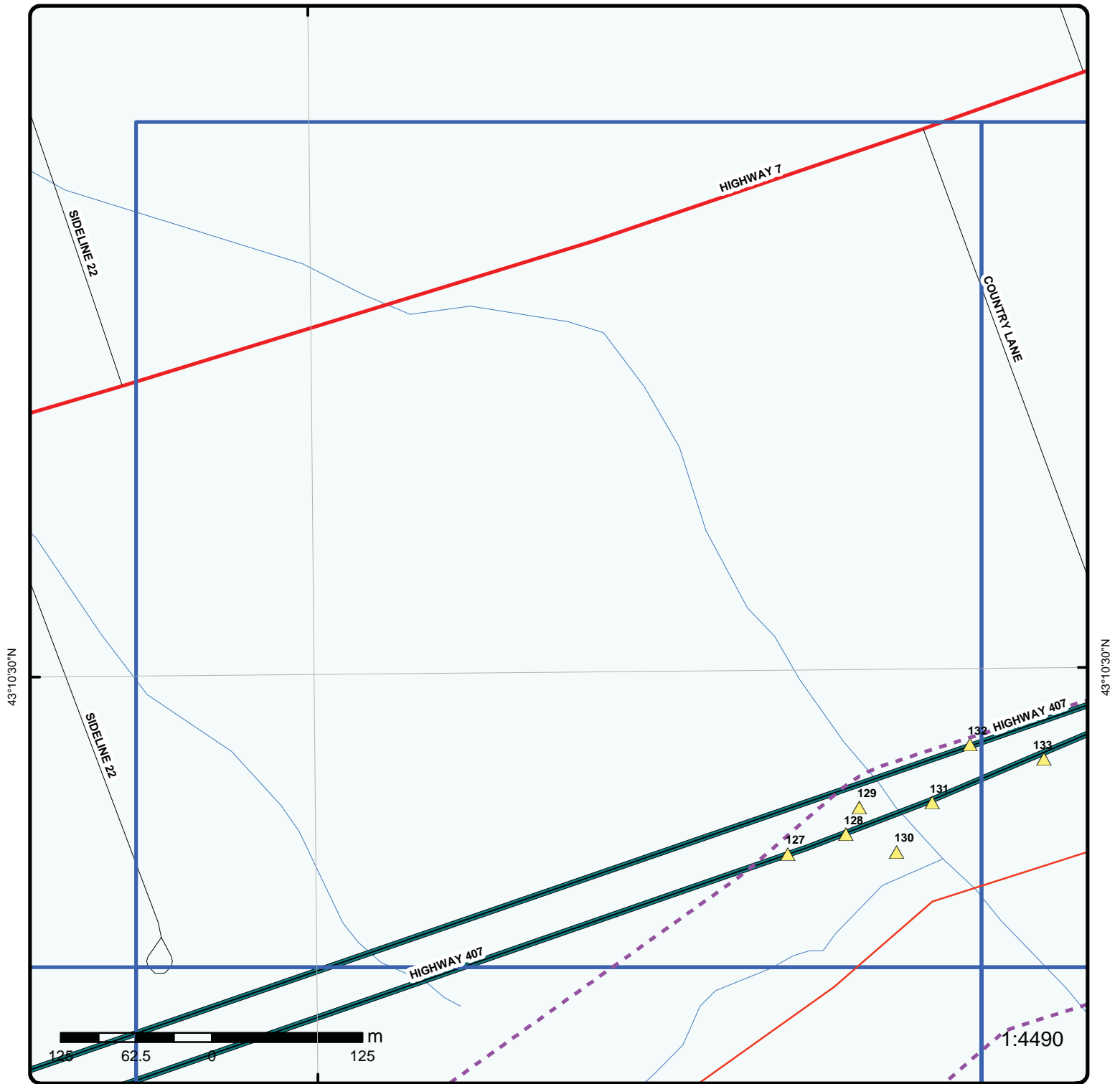
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Grid 4

Order No: 20150604109

Address: Hwy 407 Transitway, Markham, ON





Grid 5

Order No: 20150604109

Address: Hwy 407 Transitway, Markham, ON

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

80°14'W

HIGHWAY 7

ORCHARD HEIGHTS DR

COUNTRY LANE

HIGHWAY 407

HIGHWAY 407

43°10'30"N

43°10'30"N

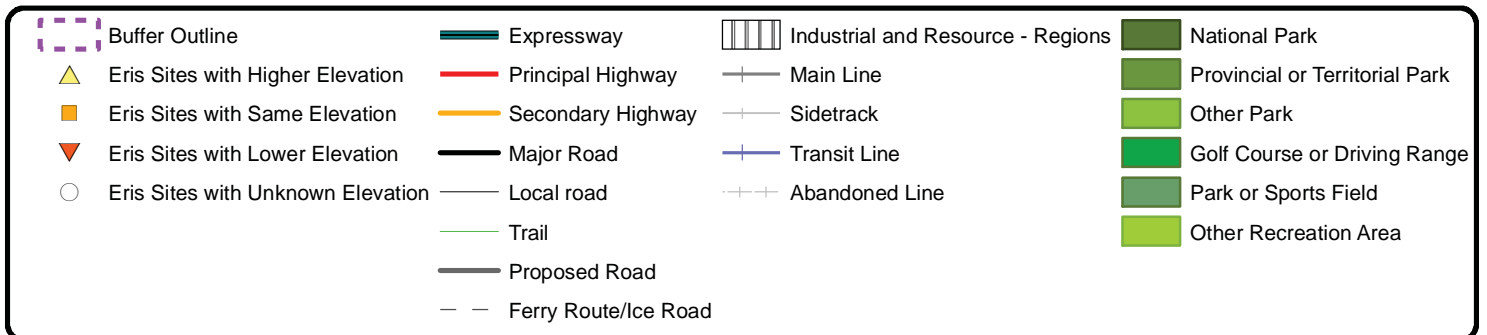


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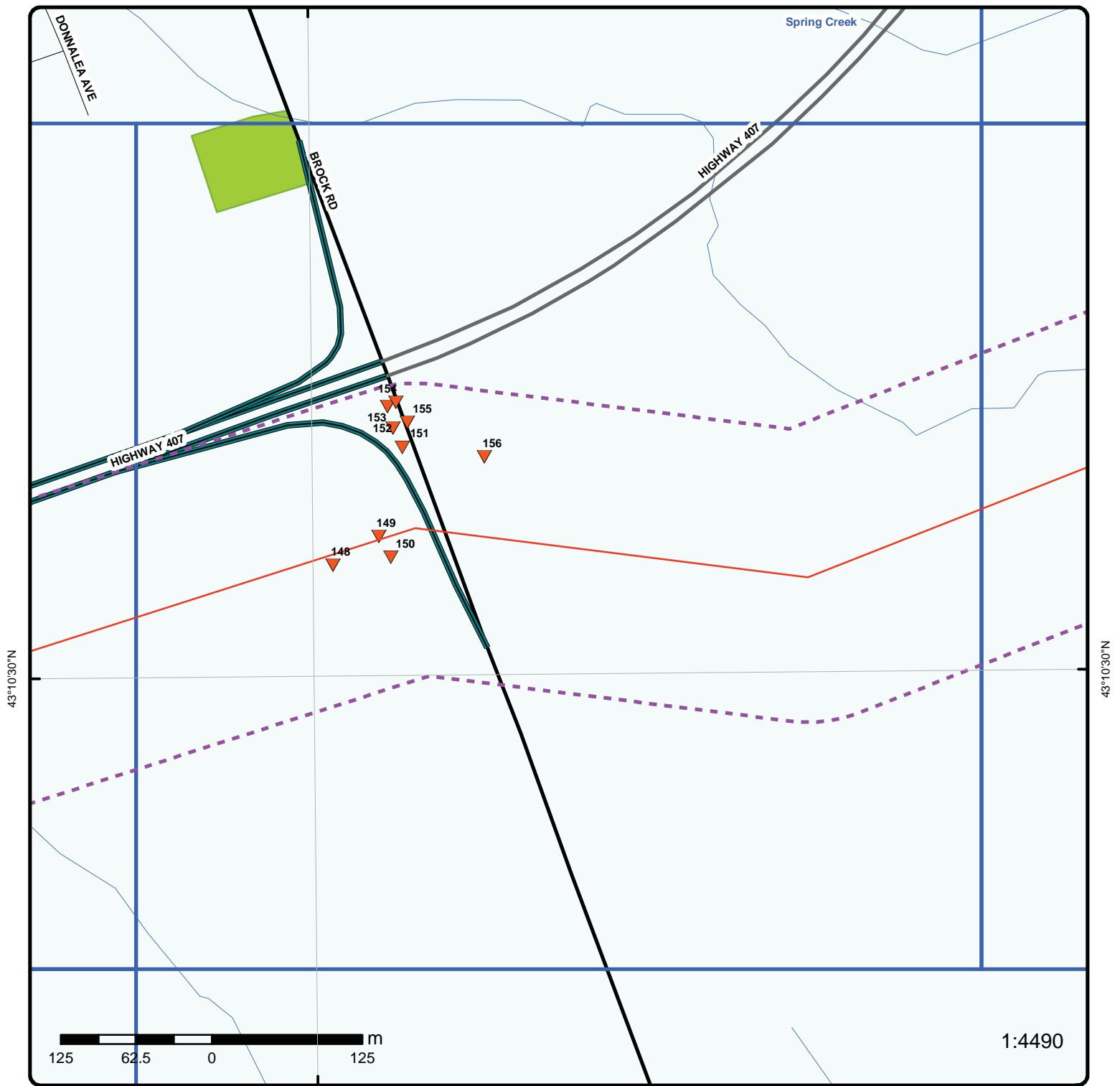
Grid 6

Order No: 20150604109

Address: Hwy 407 Transitway, Markham, ON



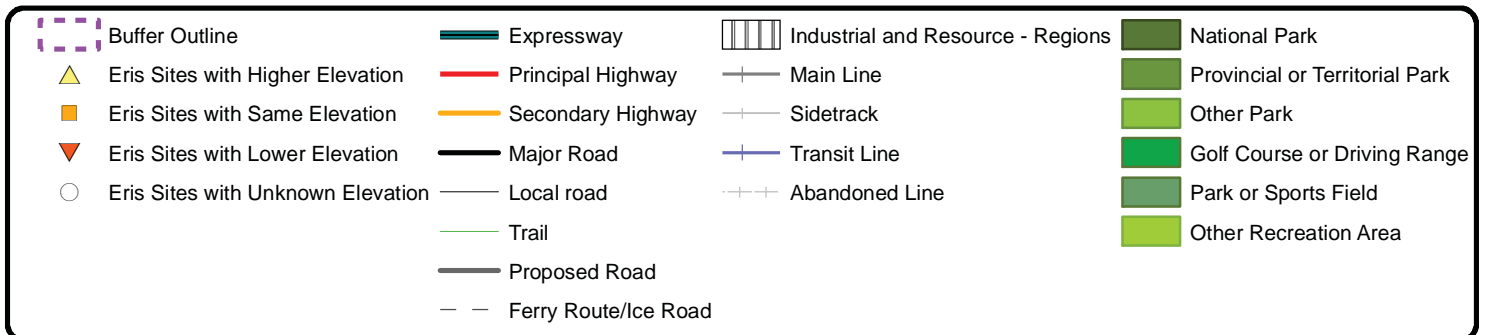
80°14'W

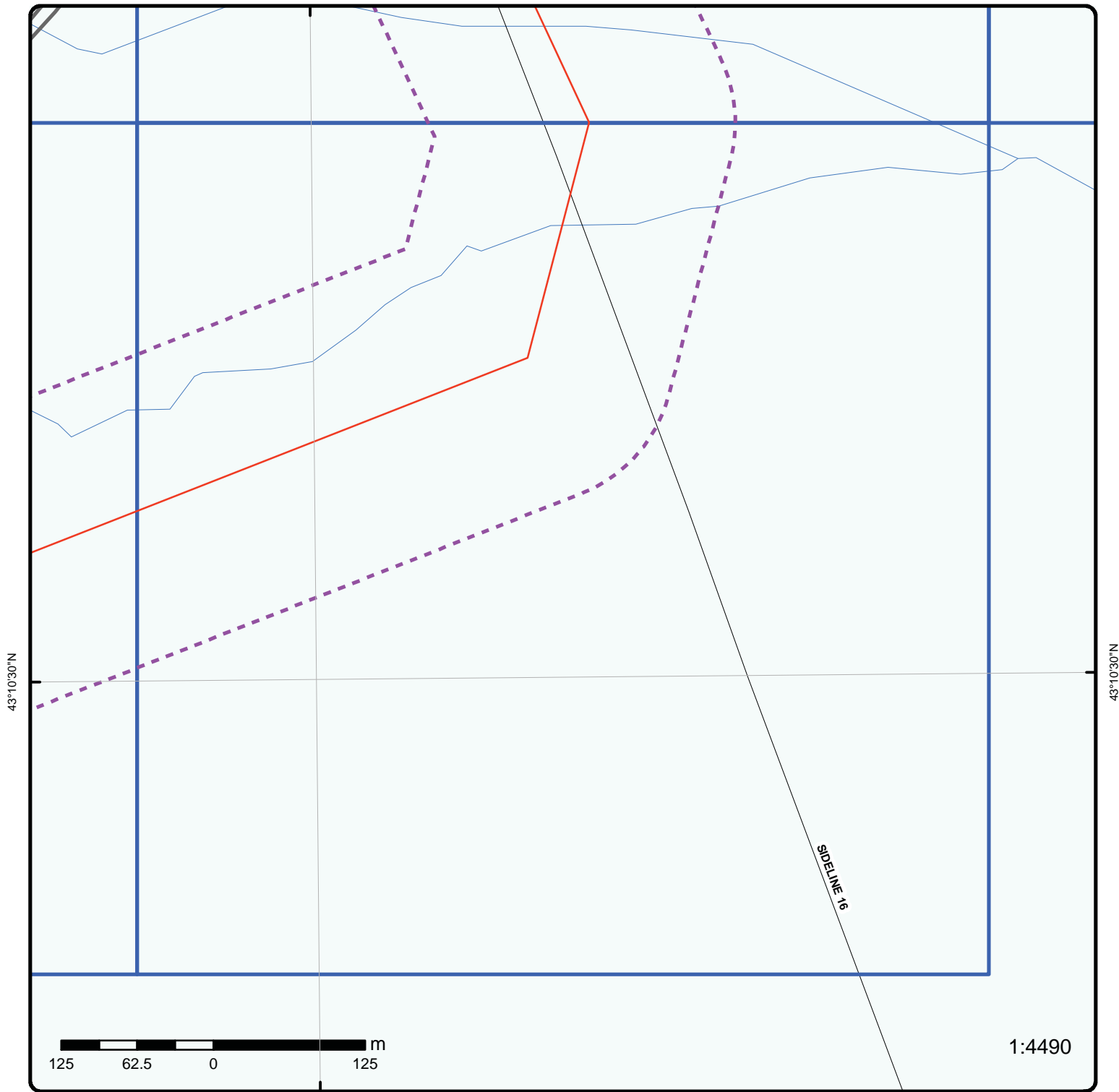


Grid 7

Order No: 20150604109

Address: Hwy 407 Transitway, Markham, ON

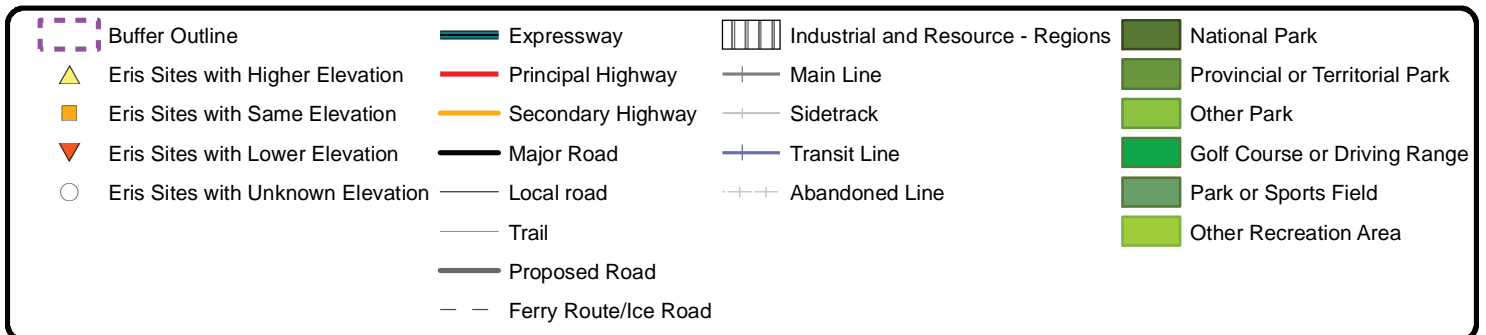


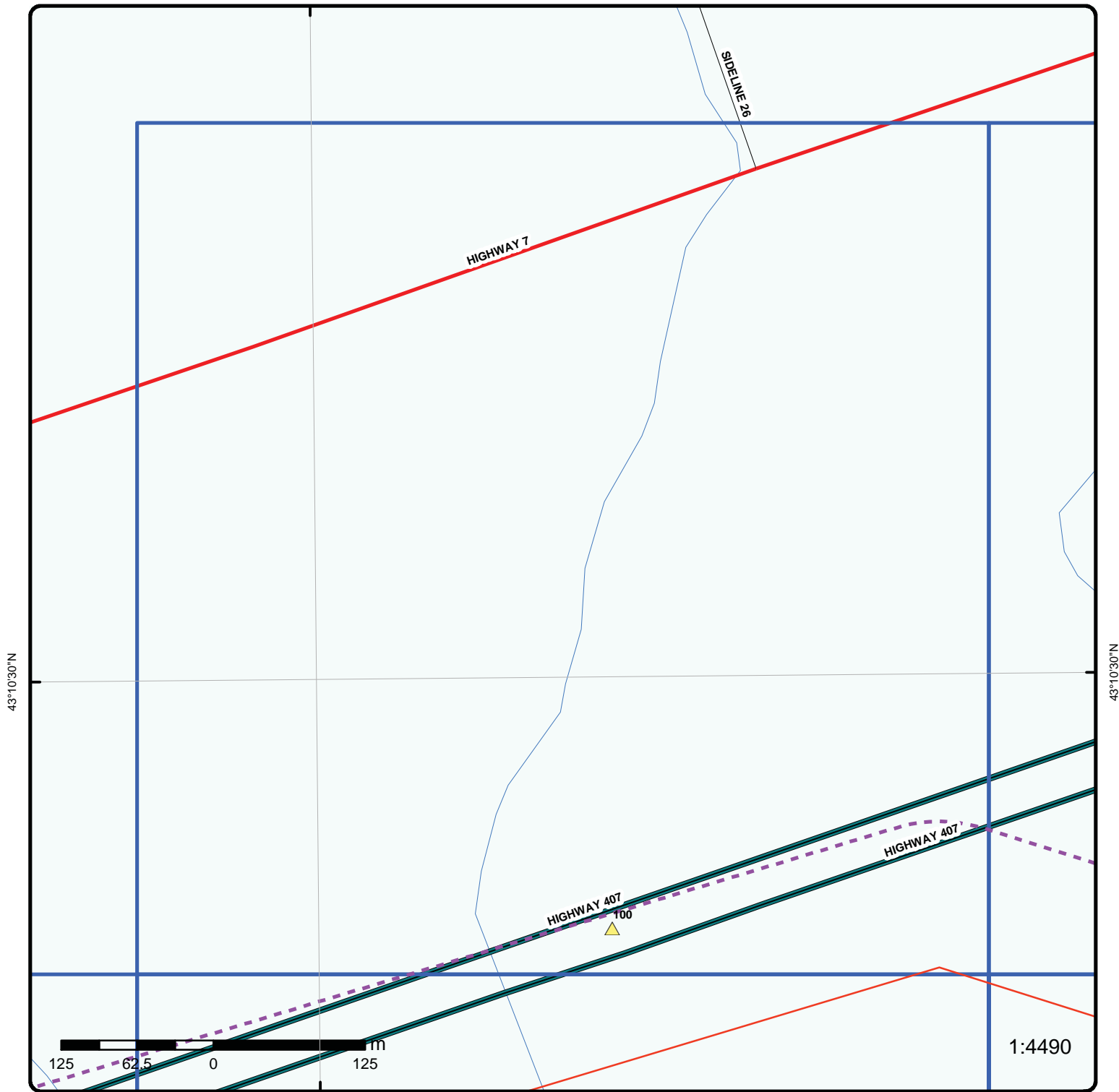


Grid 8

Order No: 20150604109

Address: Hwy 407 Transitway, Markham, ON

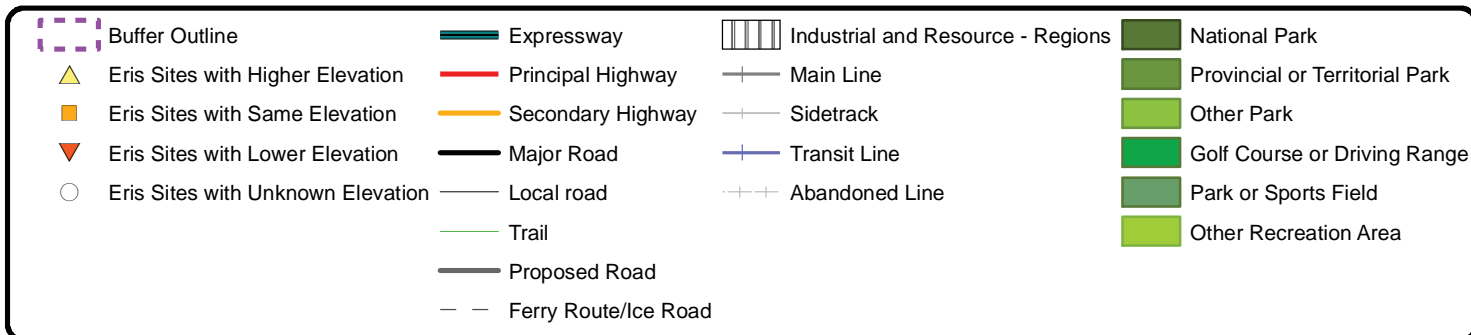




Grid 9

Order No: 20150604109

Address: Hwy 407 Transitway, Markham, ON



80°14'W

HIGHWAY 7

SIDELINE 24

HIGHWAY 407

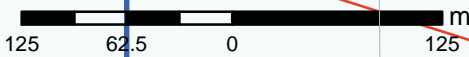
HIGHWAY 407

43°10'30"N

43°10'30"N

121
123
118
120
119
122
117

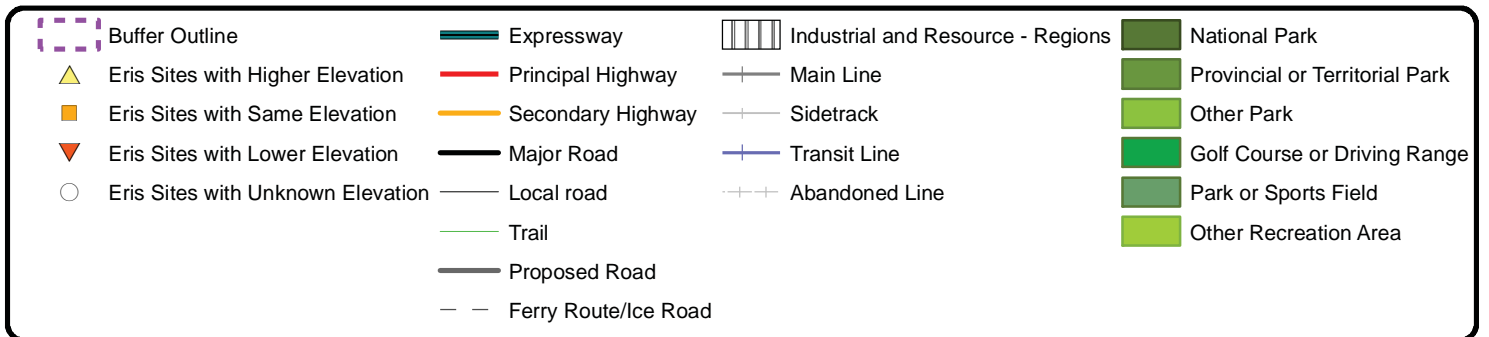
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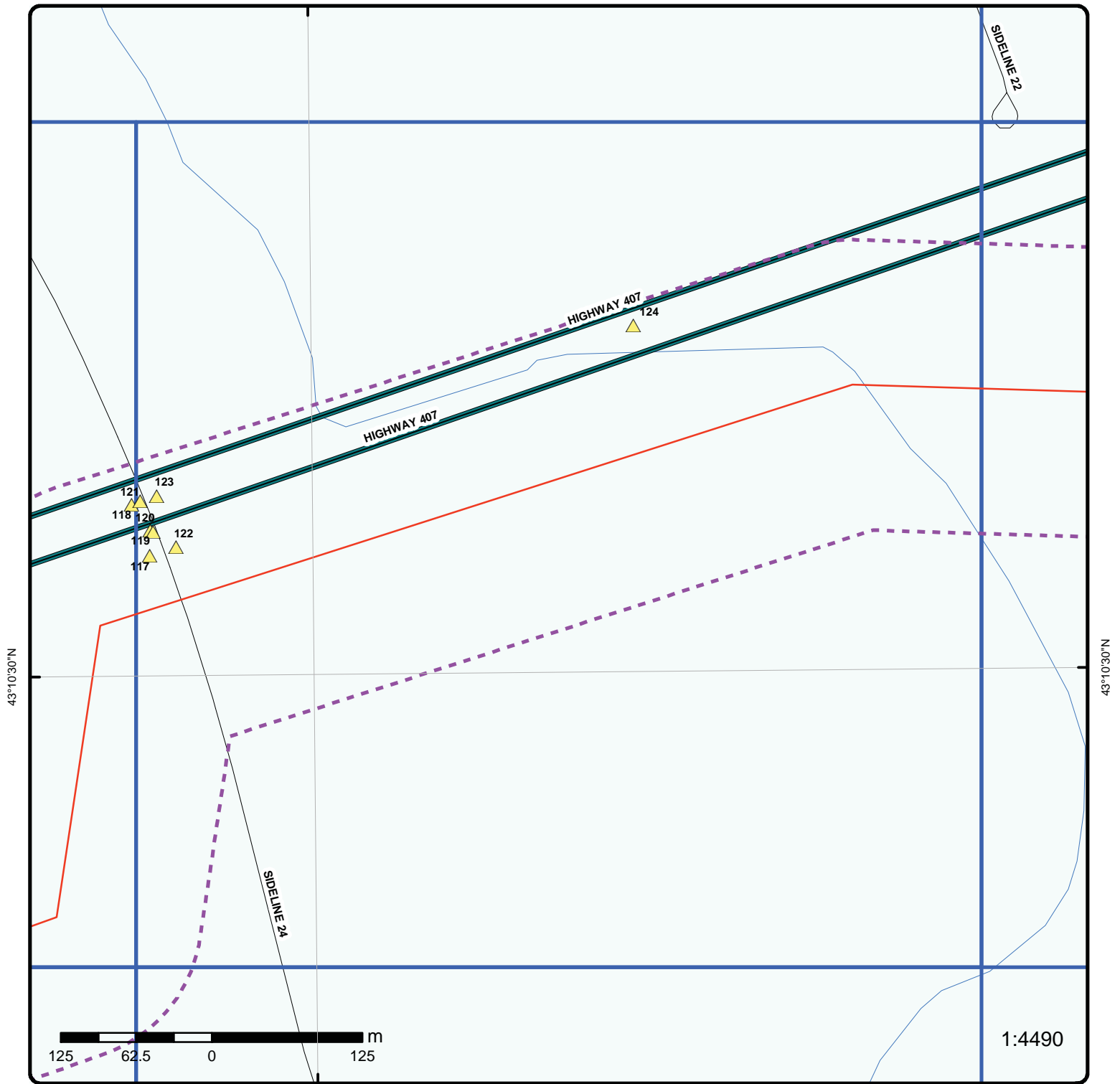


Grid 10

Order No: 20150604109

Address: Hwy 407 Transitway, Markham, ON





Grid 11

Order No: 20150604109

Address: Hwy 407 Transitway, Markham, ON

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

80°14'W

127

130

SIDELINE 22

HIGHWAY 407

HIGHWAY 407

43°10'30"N

43°10'30"N

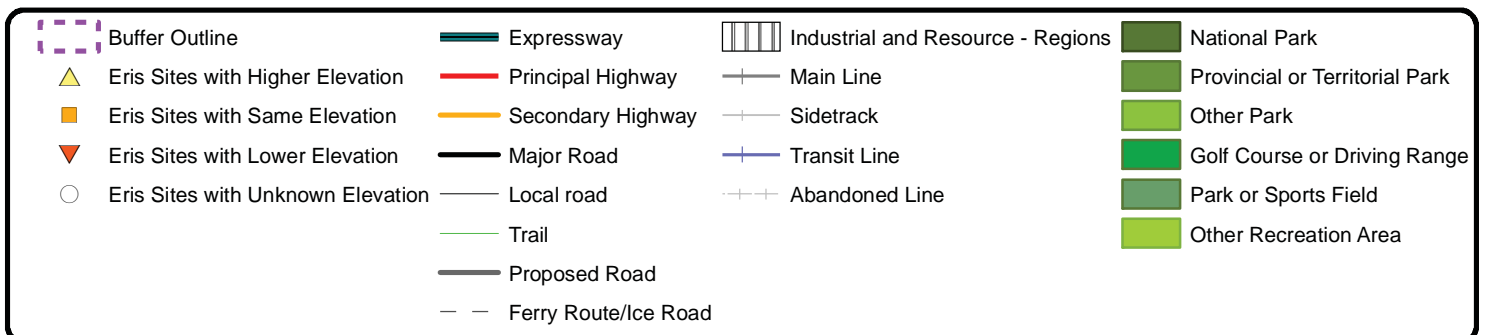


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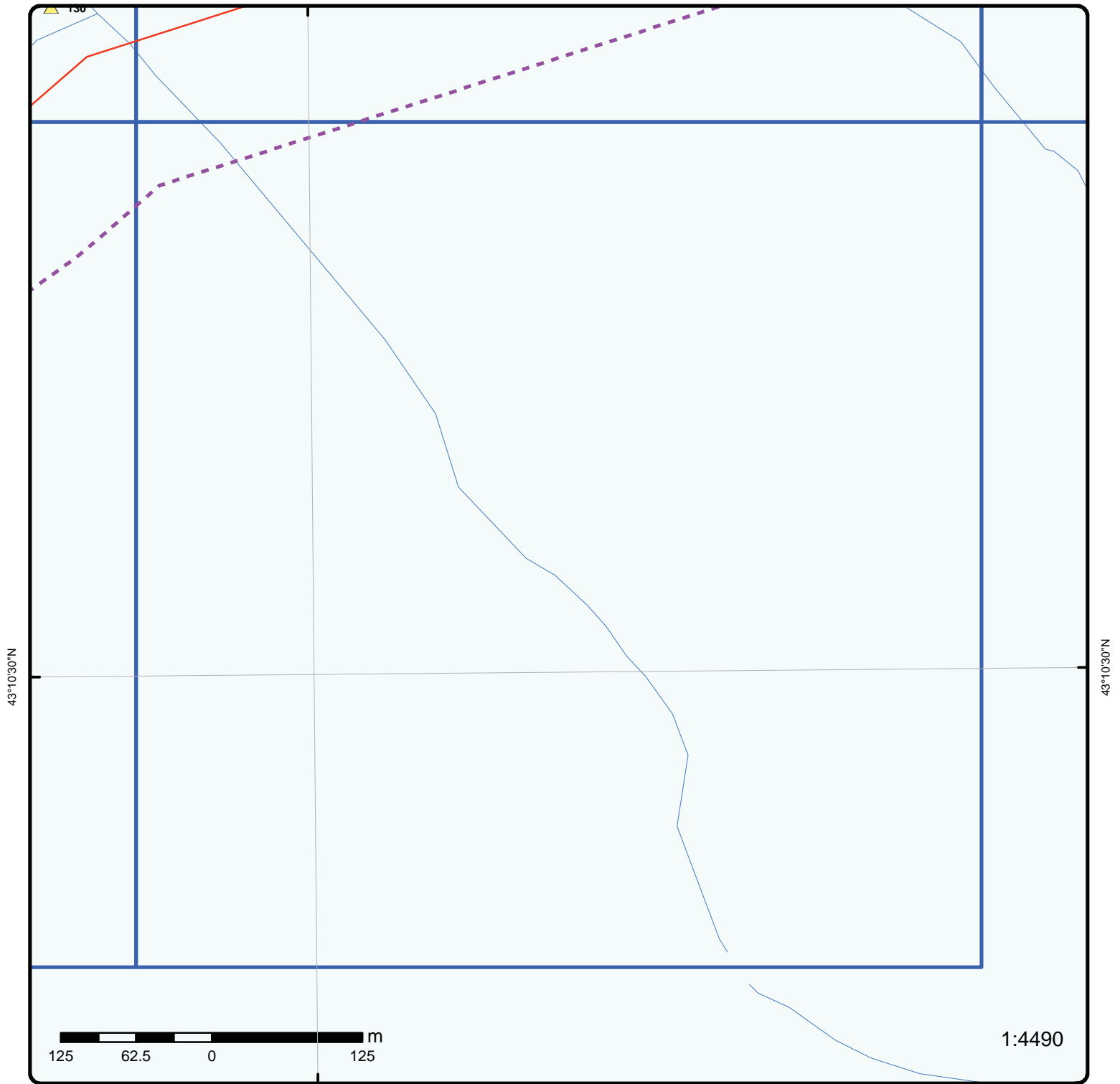
Grid 12

Order No: 20150604109

Address: Hwy 407 Transitway, Markham, ON



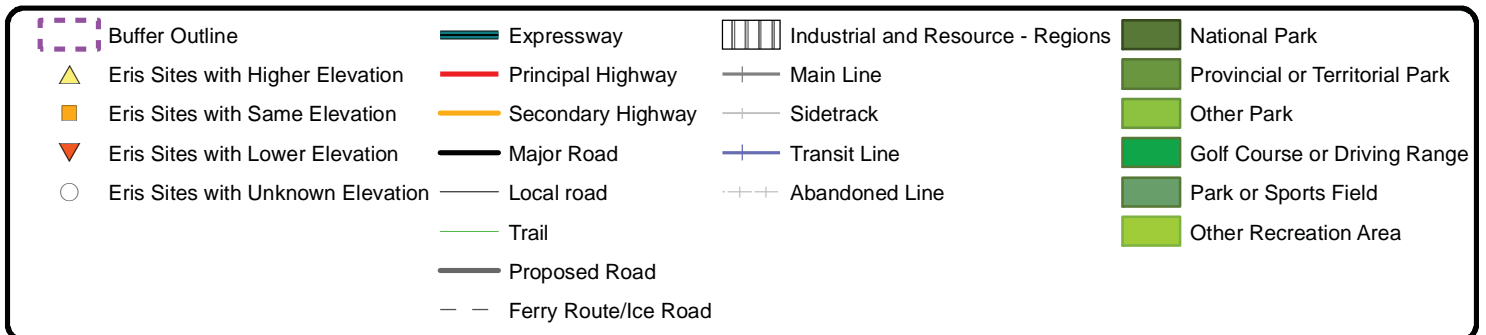
80°14'W



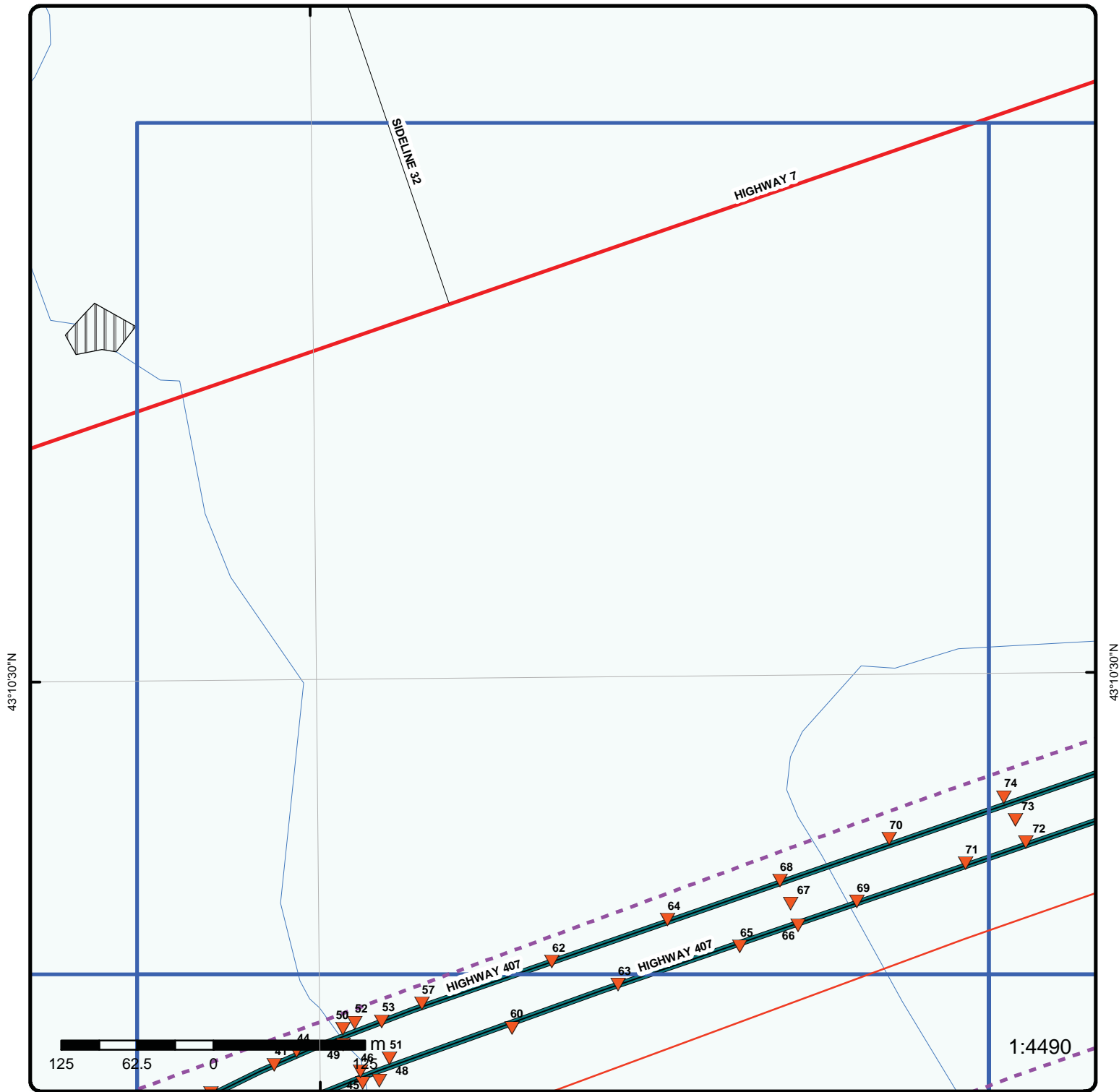
Grid 13

Order No: 20150604109

Address: Hwy 407 Transitway, Markham, ON



80°14'W



Grid 14

Order No: 20150604109

Address: Hwy 407 Transitway, Markham, ON

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

HIGHWAY 7

NORTH RD

HIGHWAY 407

HIGHWAY 407

43°10'30"N

43°10'30"N

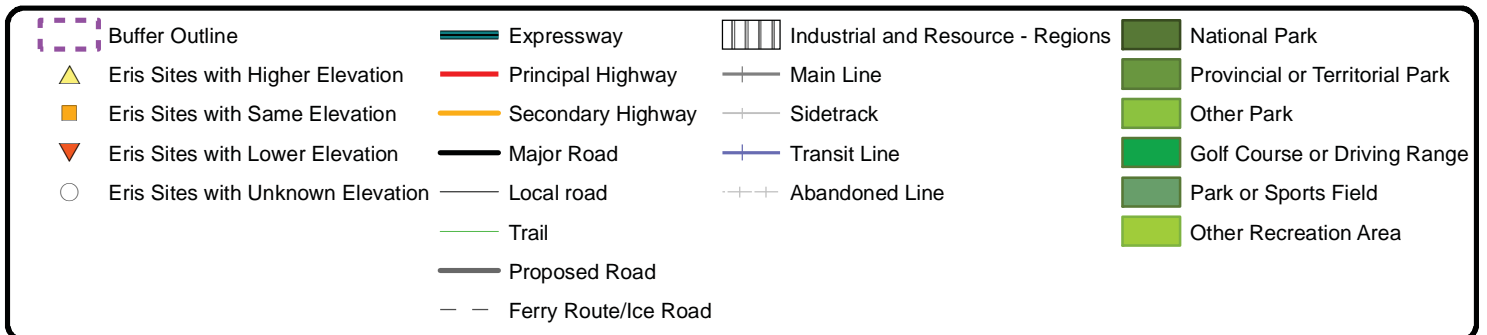


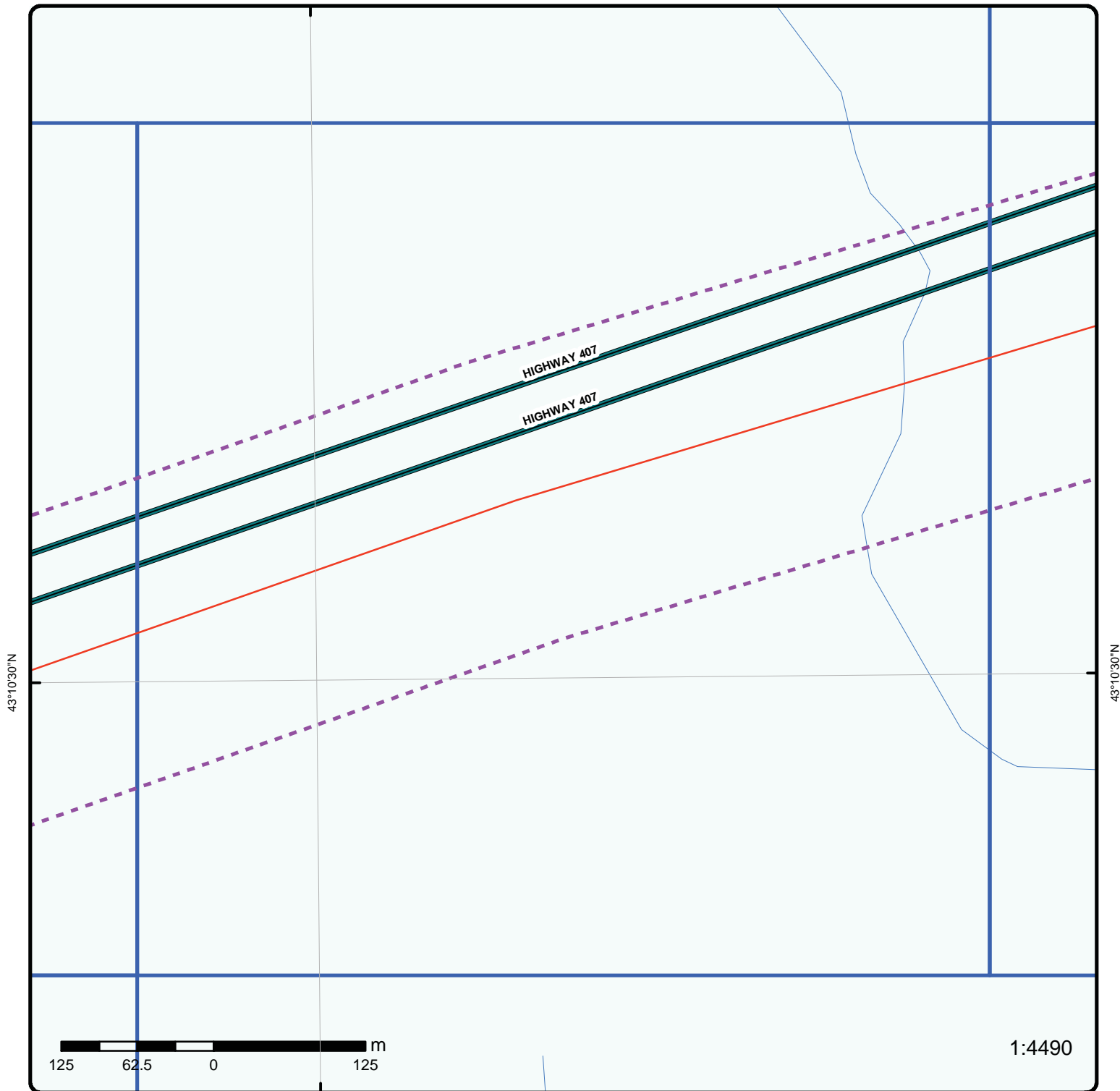
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Grid 15

Order No: 20150604109

Address: Hwy 407 Transitway, Markham, ON

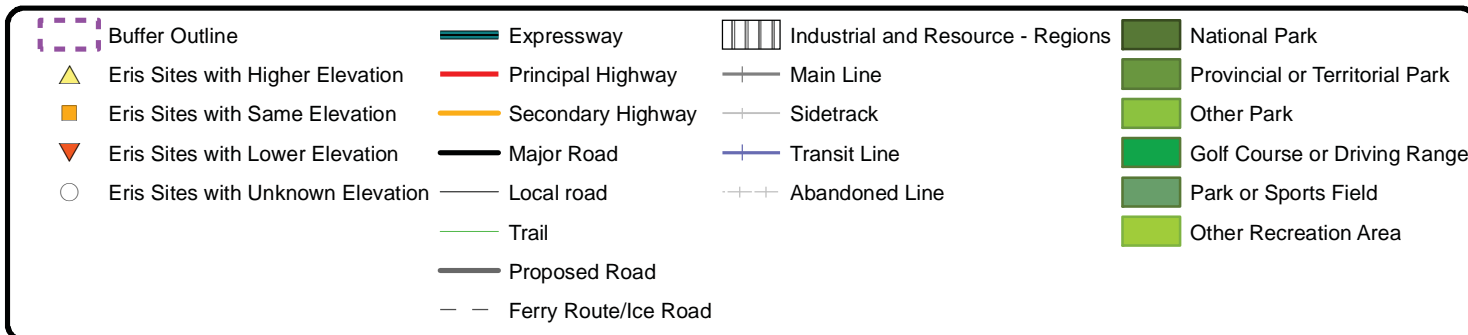


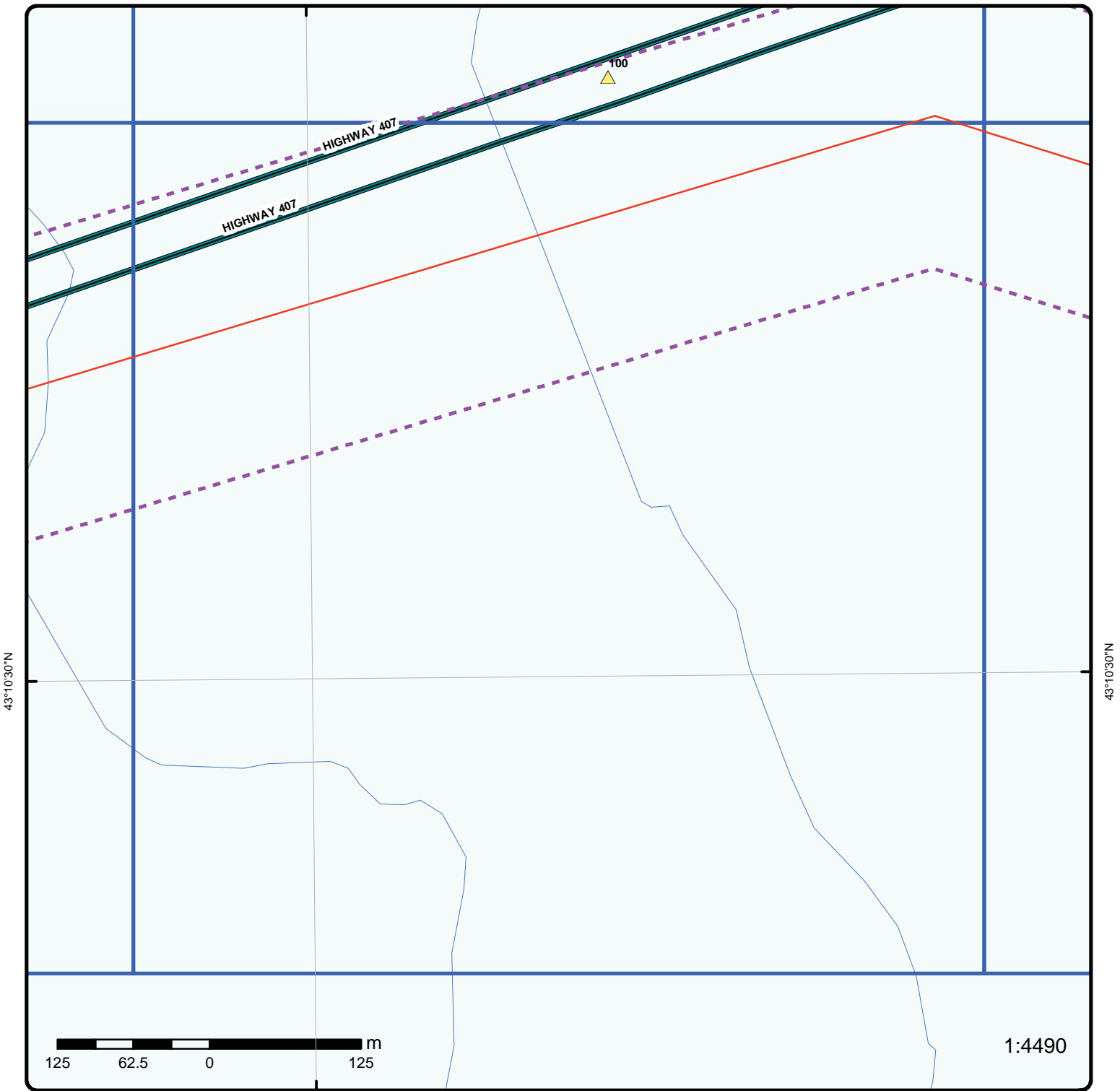


Grid 16

Order No: 20150604109

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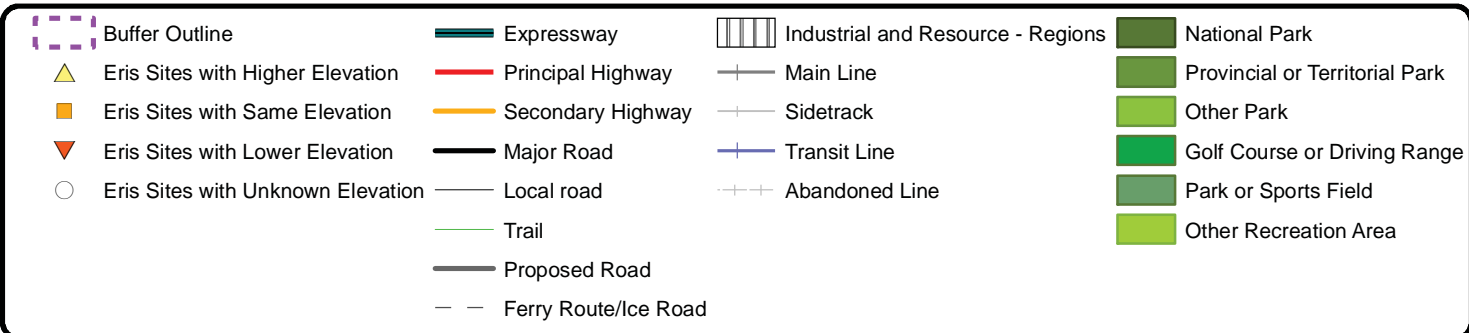




Grid 17

Order No: 20150604109

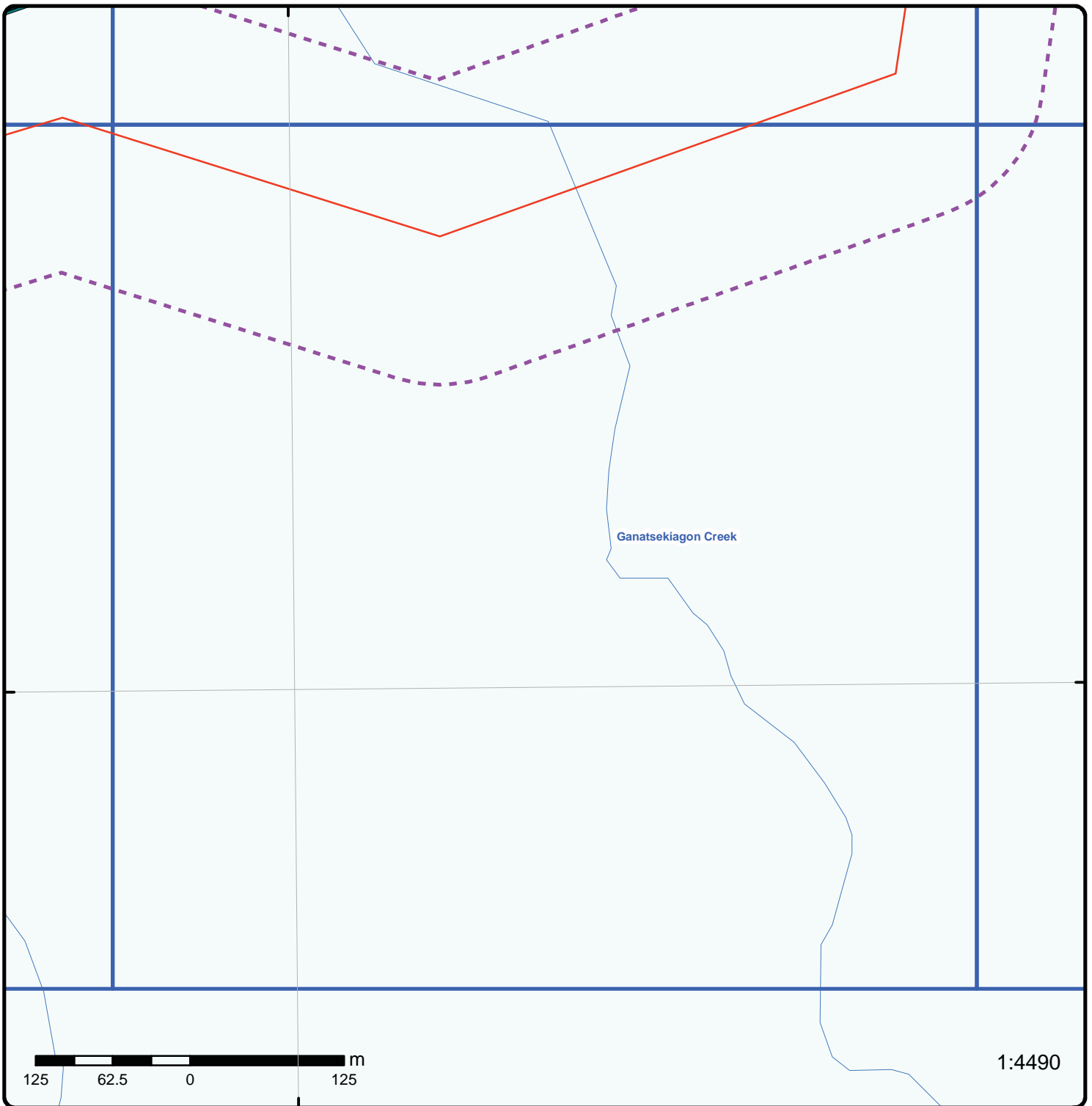
Address: Hwy 407 Transitway, Markham, ON



80°14'W

43°10'30"N

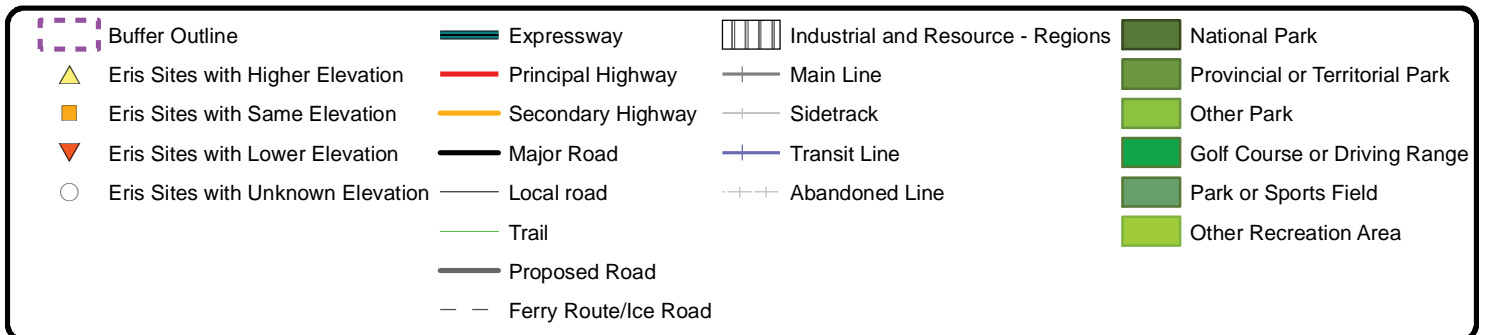
43°10'30"N

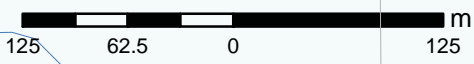
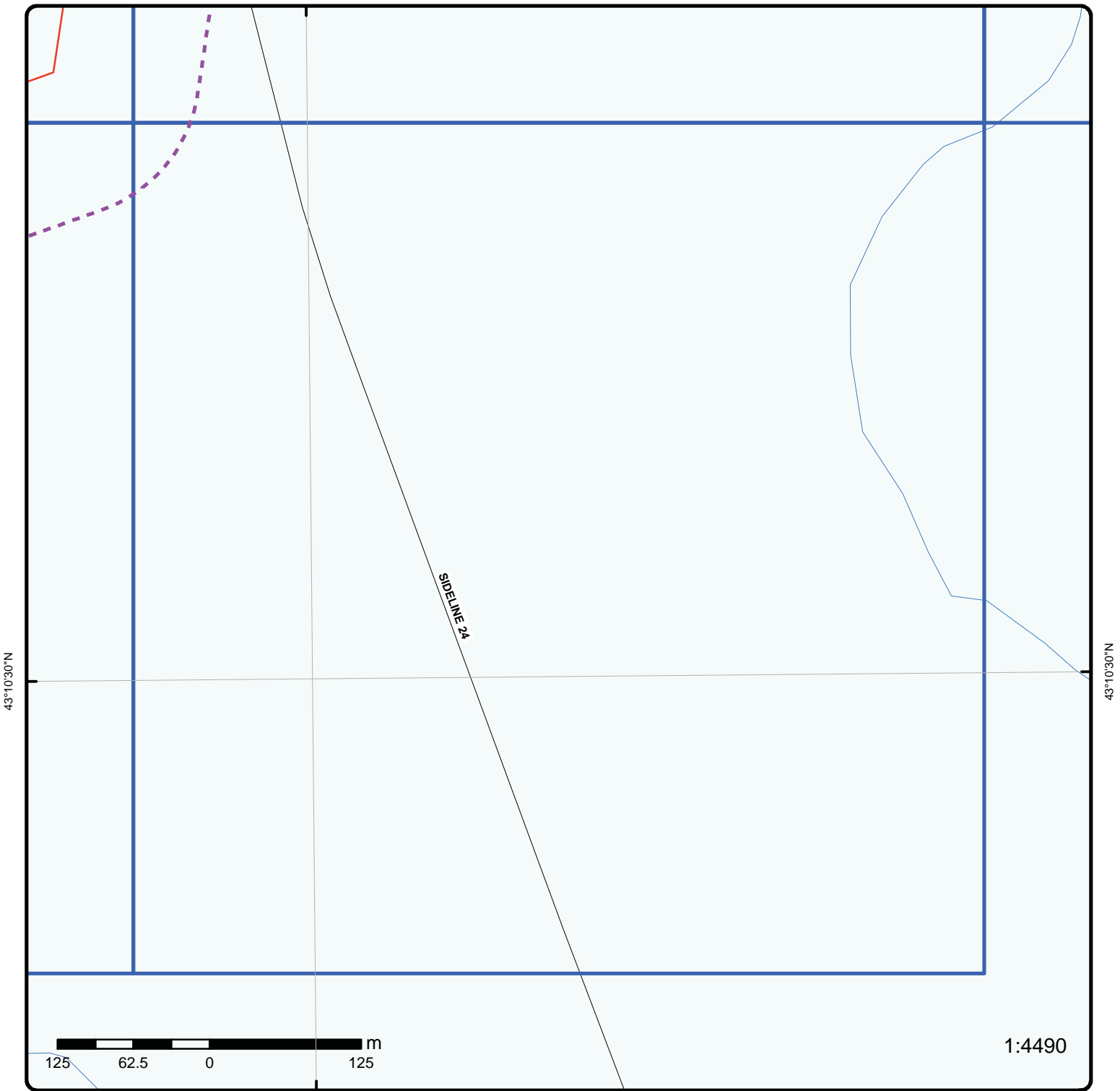


Grid 18

Order No: 20150604109

Address: Hwy 407 Transitway, Markham, ON



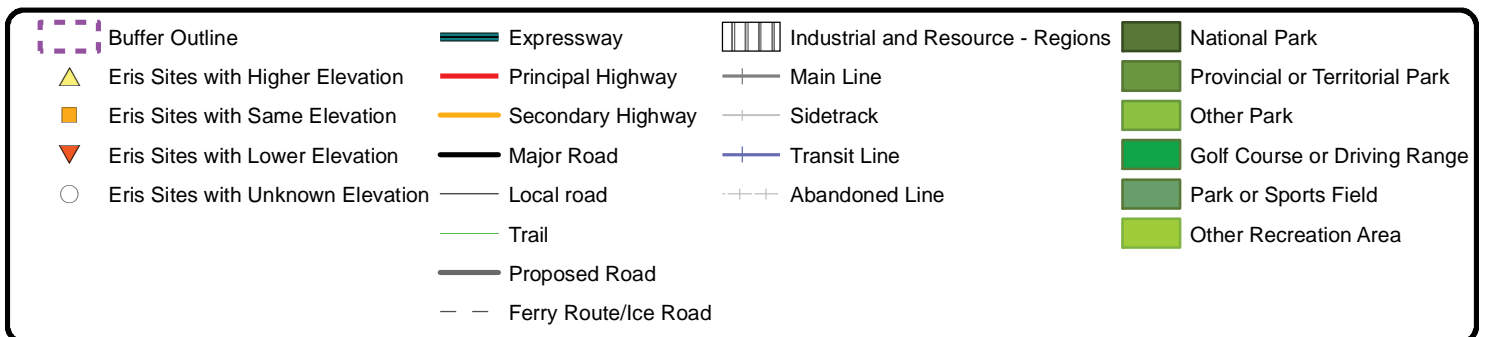


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Grid 19

Order No: 20150604109

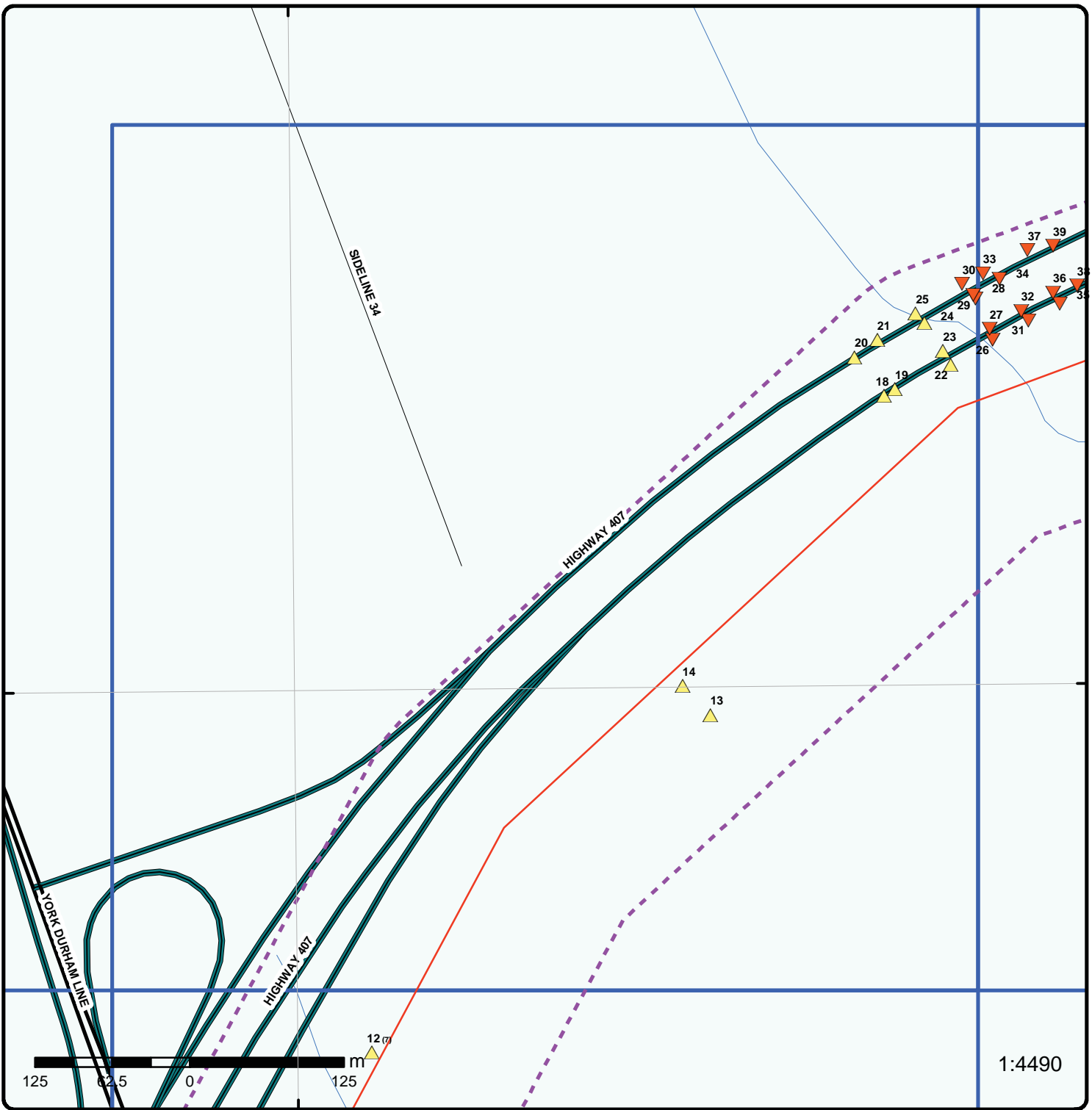
Address: Hwy 407 Transitway, Markham, ON



80°14'W

43°10'30"N

43°10'30"N



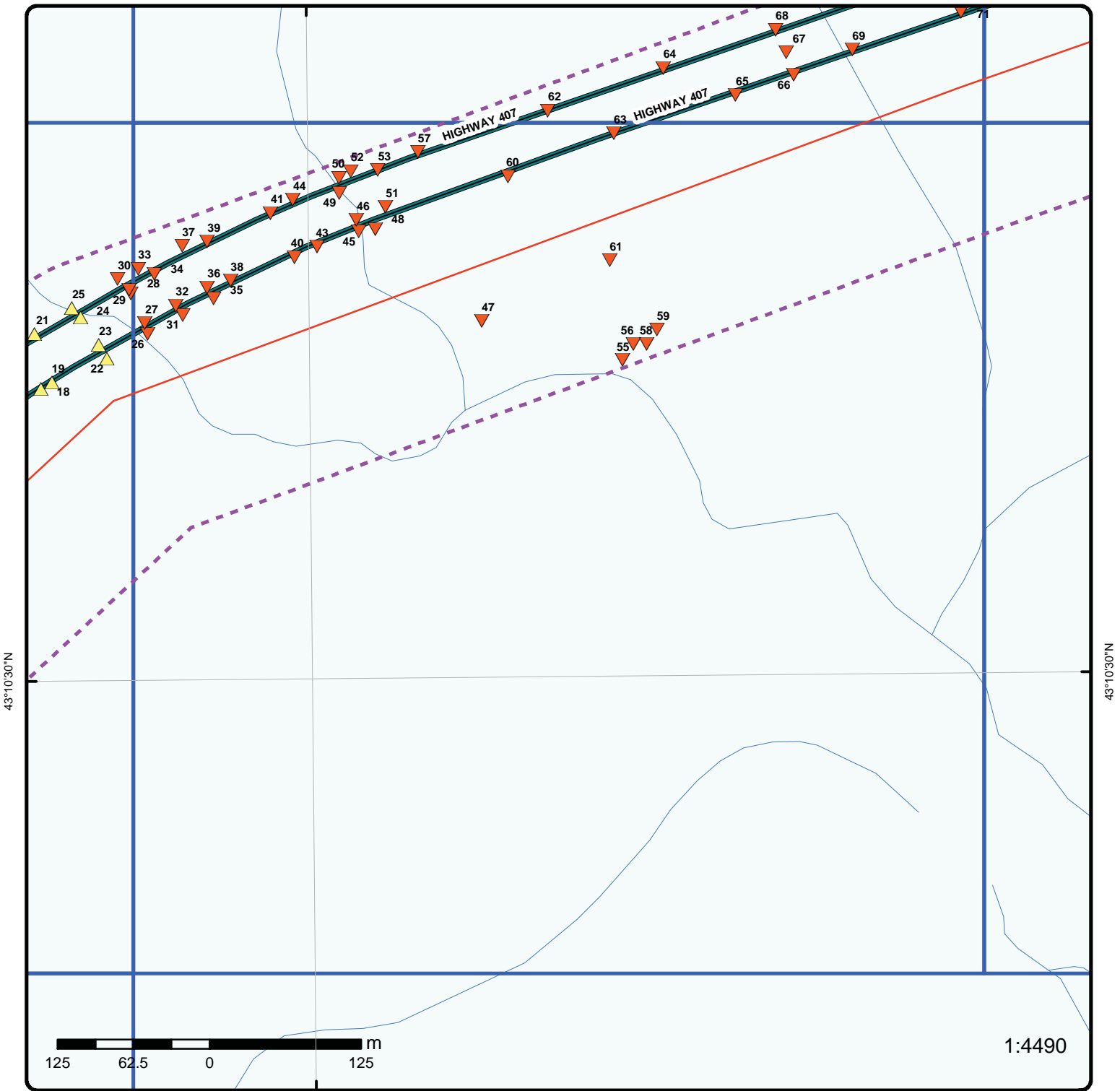
1:4490

Grid 20

Order No: 20150604109

Address: Hwy 407 Transitway, Markham, ON

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



43°10'30"N

43°10'30"N

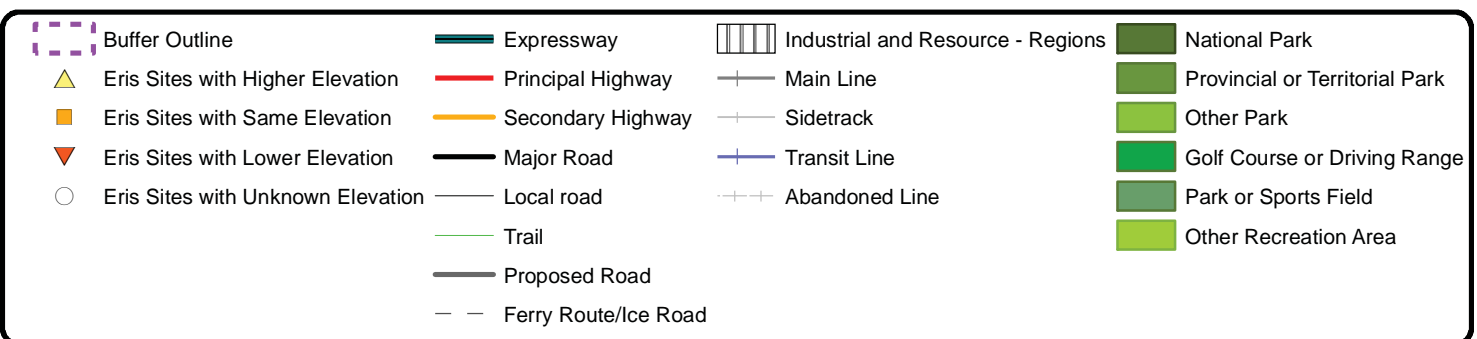


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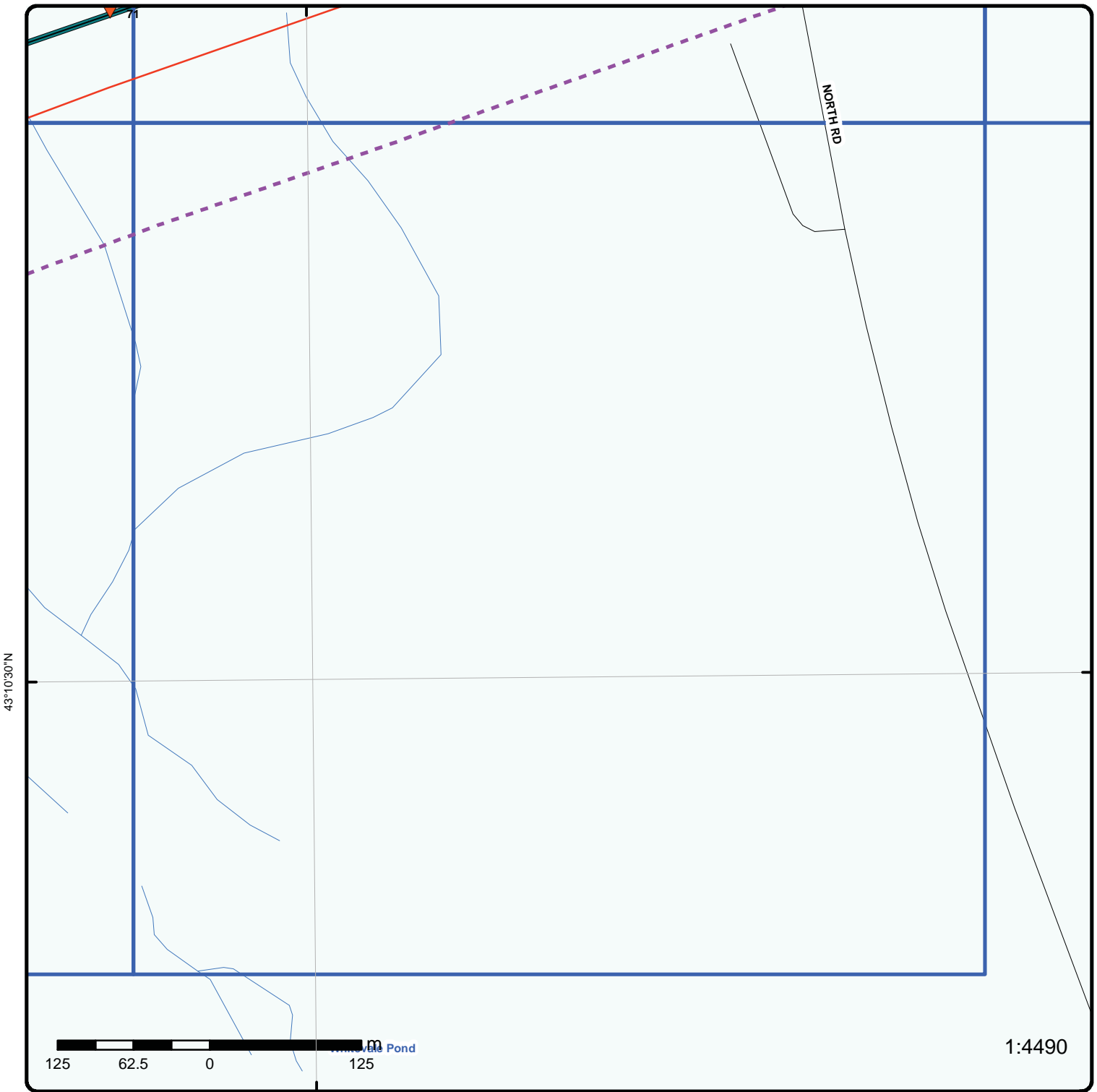
Grid 21

Order No: 20150604109

Address: Hwy 407 Transitway, Markham, ON



80°14'W



43°10'30"N

43°10'30"N

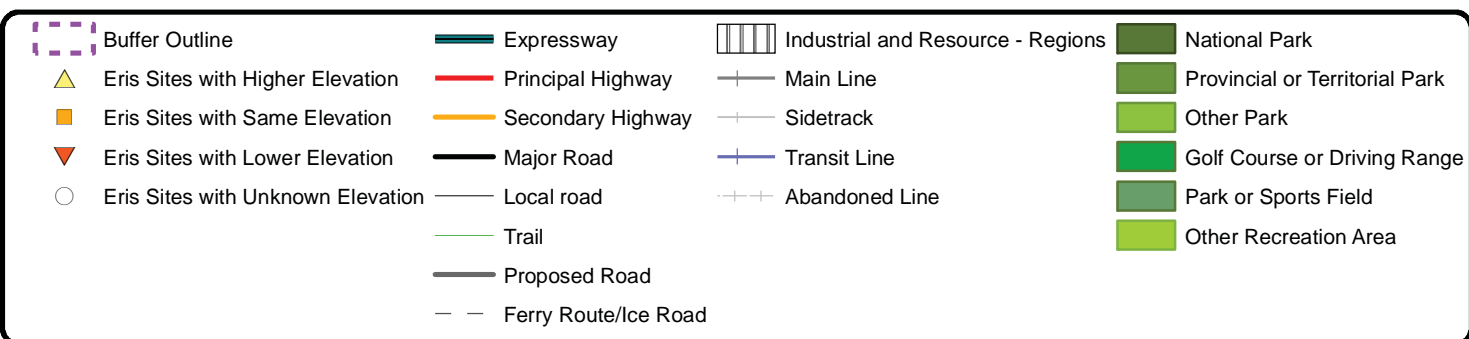


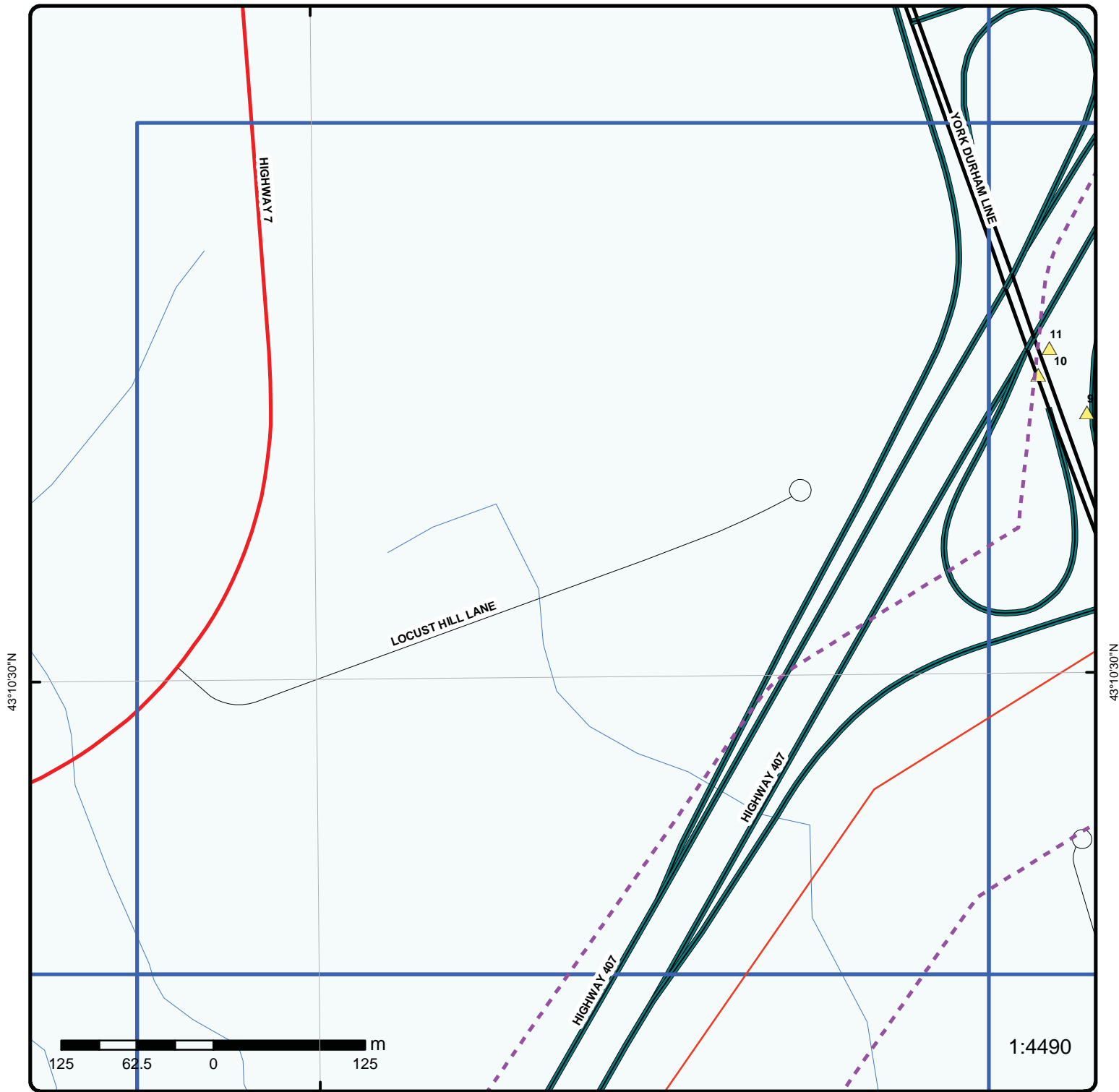
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Grid 22

Order No: 20150604109

Address: Hwy 407 Transitway, Markham, ON





Grid 23

Order No: 20150604109

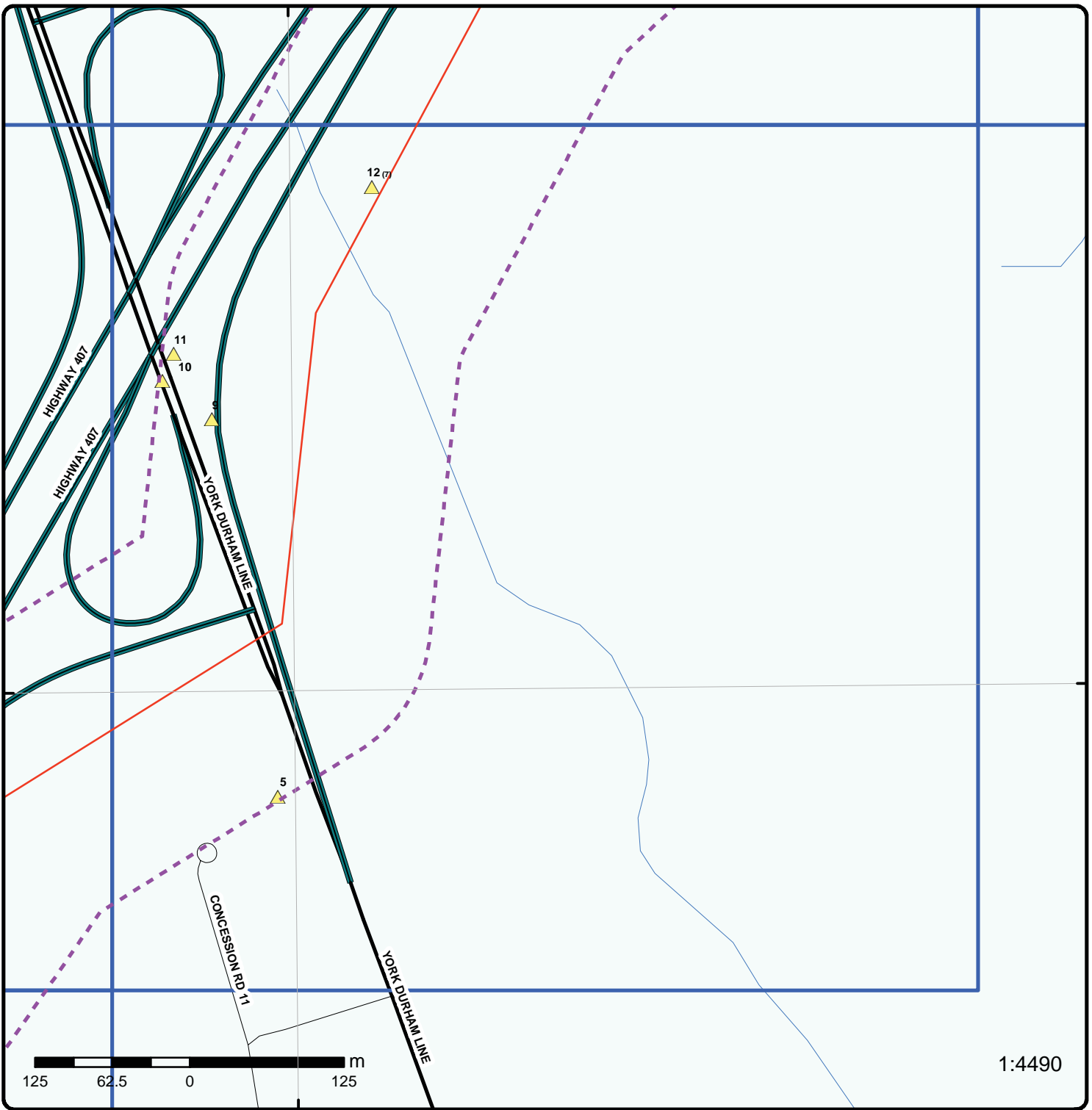
Address: Hwy 407 Transitway, Markham, ON

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

80°14'W

43°10'30"N

43°10'30"N



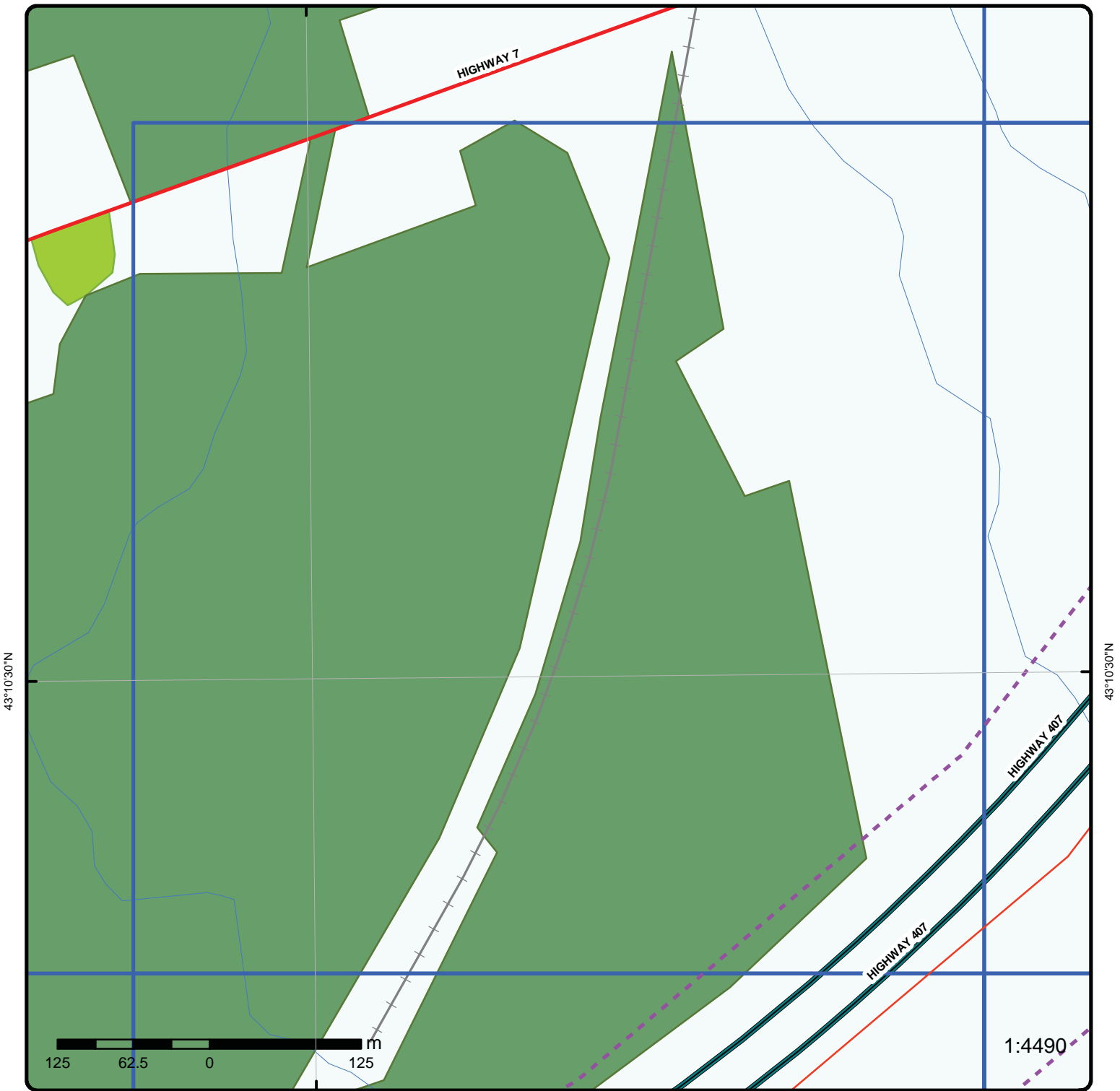
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Grid 24

Order No: 20150604109

Address: Hwy 407 Transitway, Markham, ON

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

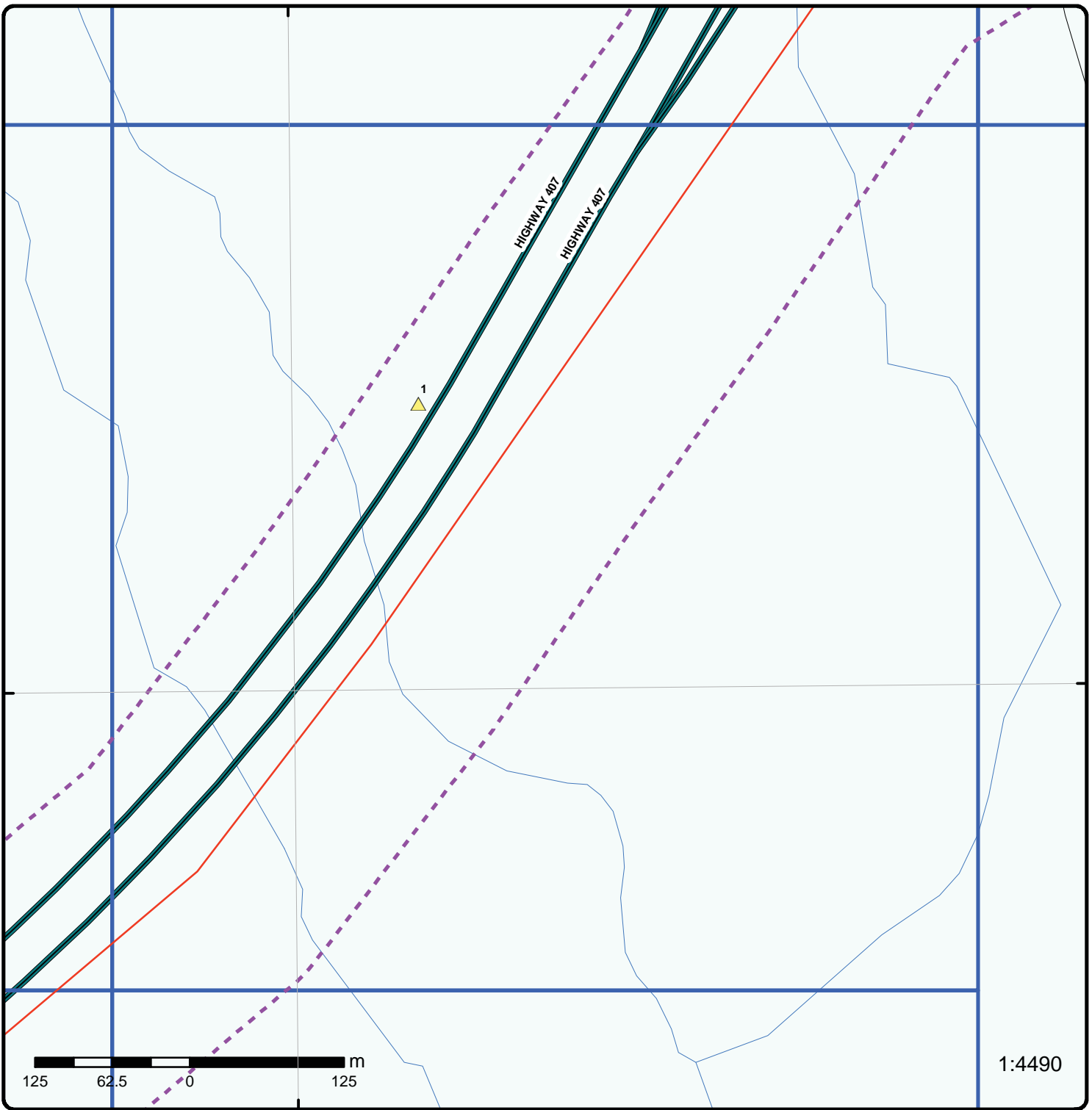


Grid 25

Order No: 20150604109

Address: Hwy 407 Transitway, Markham, ON

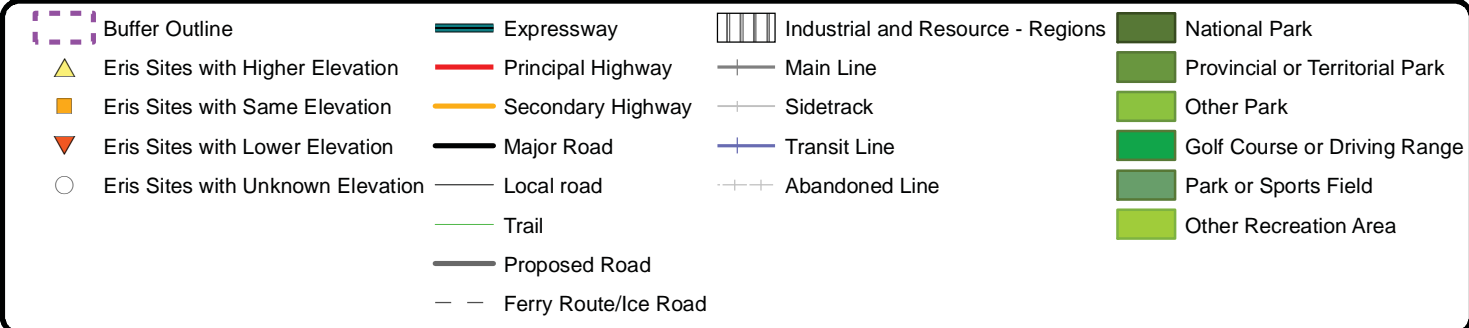
Buffer Outline	Expressway	Industrial and Resource - Regions	National Park
Eris Sites with Higher Elevation	Principal Highway	Main Line	Provincial or Territorial Park
Eris Sites with Same Elevation	Secondary Highway	Sidetrack	Other Park
Eris Sites with Lower Elevation	Major Road	Transit Line	Golf Course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

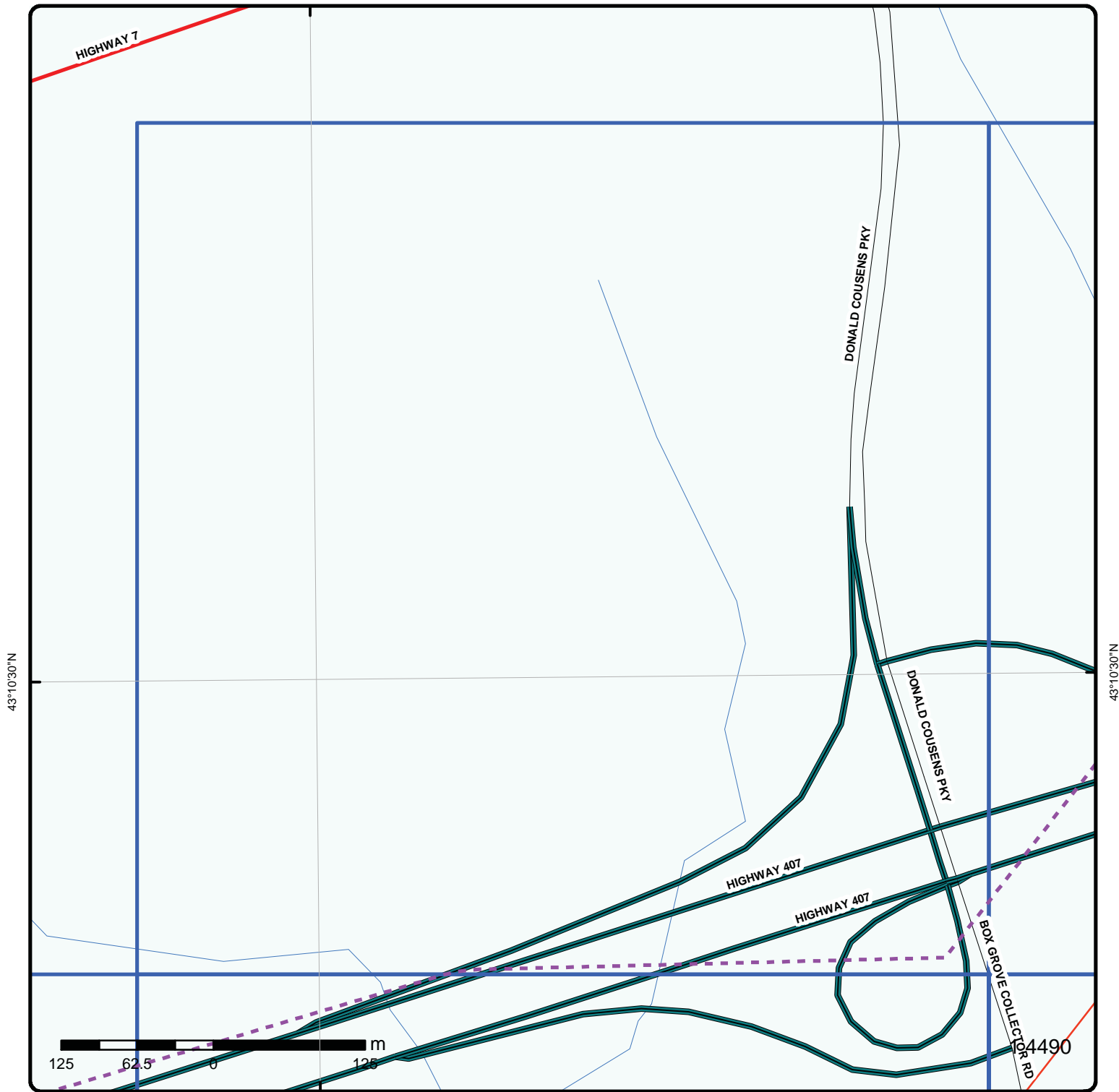


Grid 26

Order No: 20150604109

Address: Hwy 407 Transitway, Markham, ON



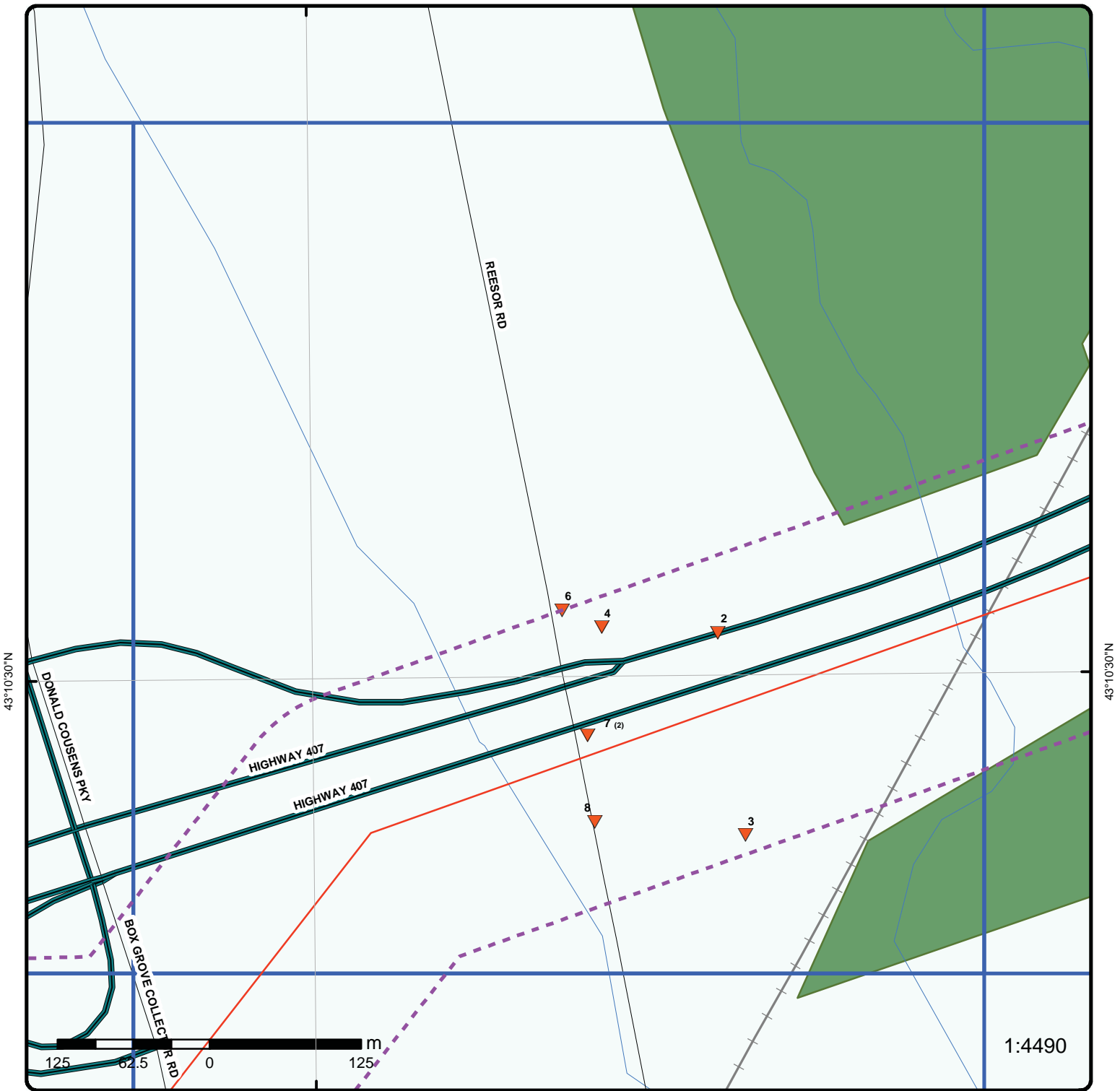


Grid 27

Order No: 20150604109

Address: Hwy 407 Transitway, Markham, ON

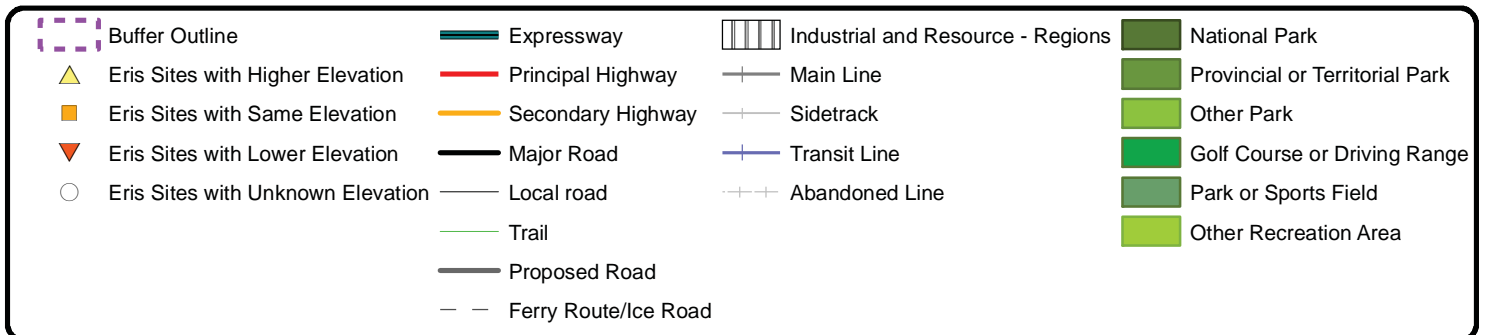
Buffer Outline	Expressway	Industrial and Resource - Regions	National Park
Eris Sites with Higher Elevation	Principal Highway	Main Line	Provincial or Territorial Park
Eris Sites with Same Elevation	Secondary Highway	Sidetrack	Other Park
Eris Sites with Lower Elevation	Major Road	Transit Line	Golf Course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

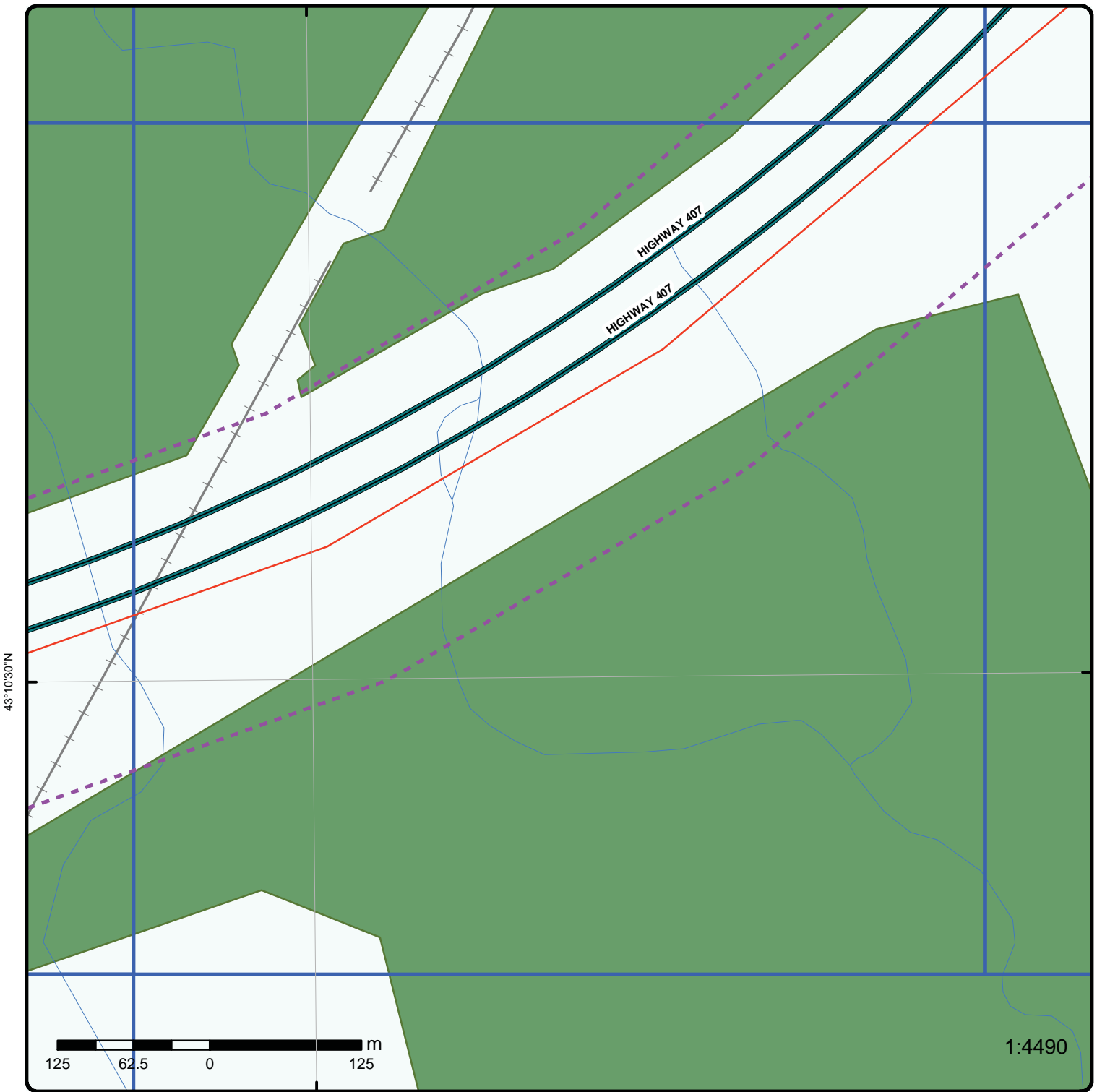


Grid 28

Order No: 20150604109

Address: Hwy 407 Transitway, Markham, ON





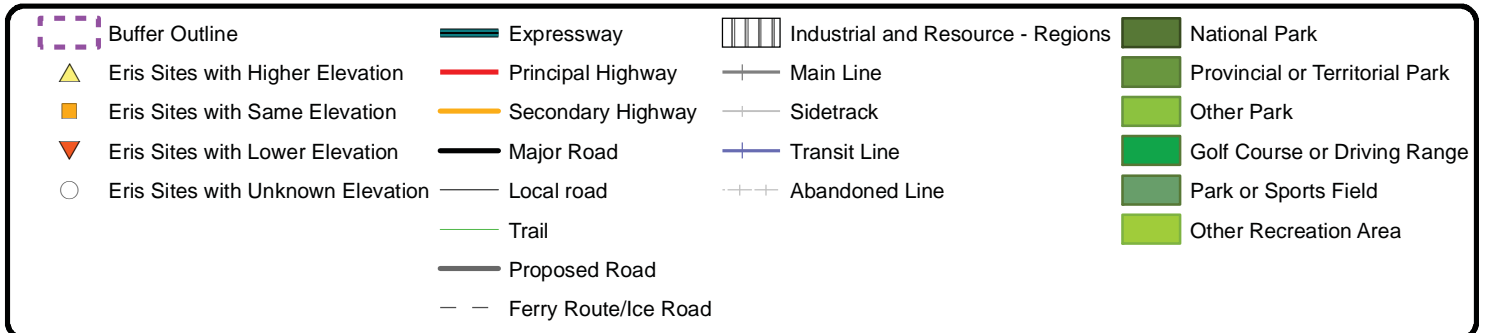
43°10'30"N

43°10'30"N

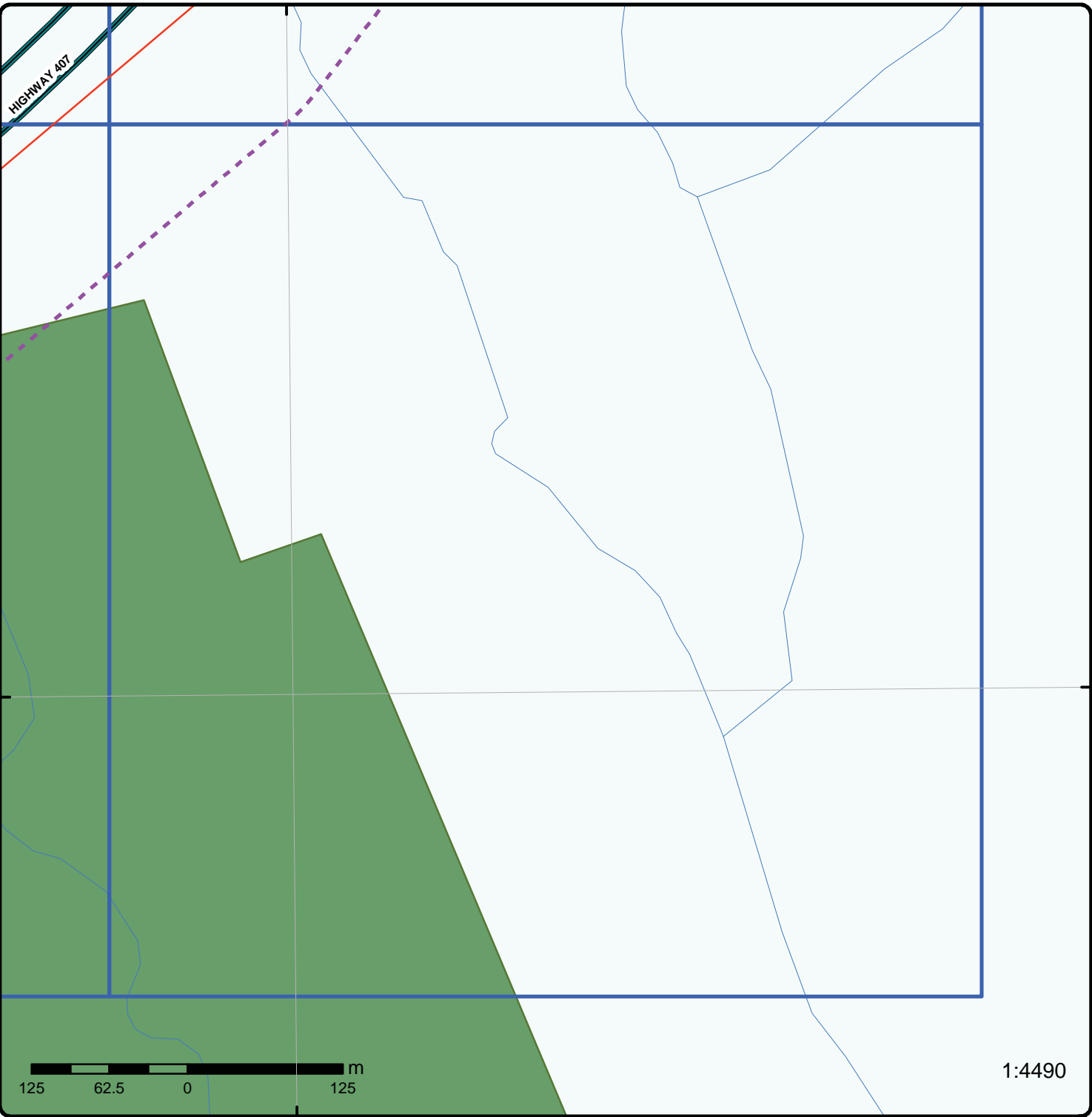
Grid 29

Order No: 20150604109

Address: Hwy 407 Transitway, Markham, ON



80°14'W



43°10'30"N

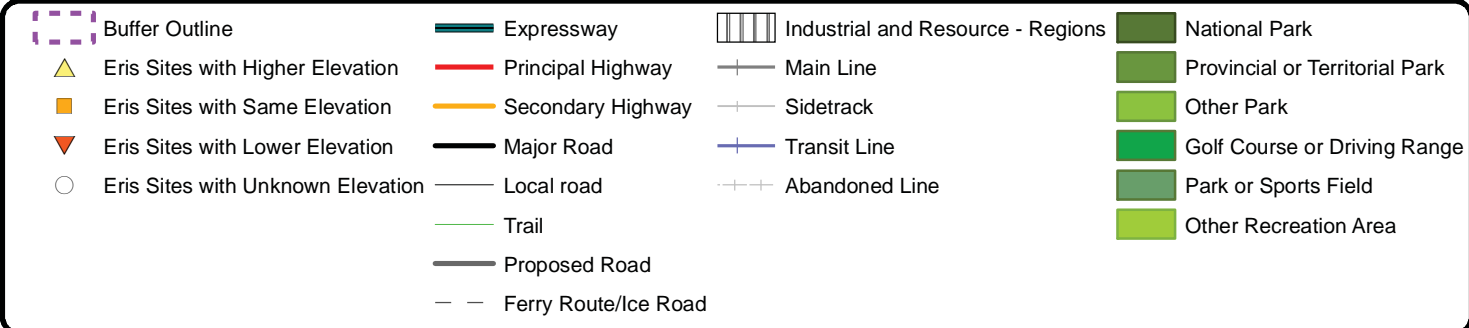
43°10'30"N

1:4490

Grid 30

Order No: 20150604109

Address: Hwy 407 Transitway, Markham, ON

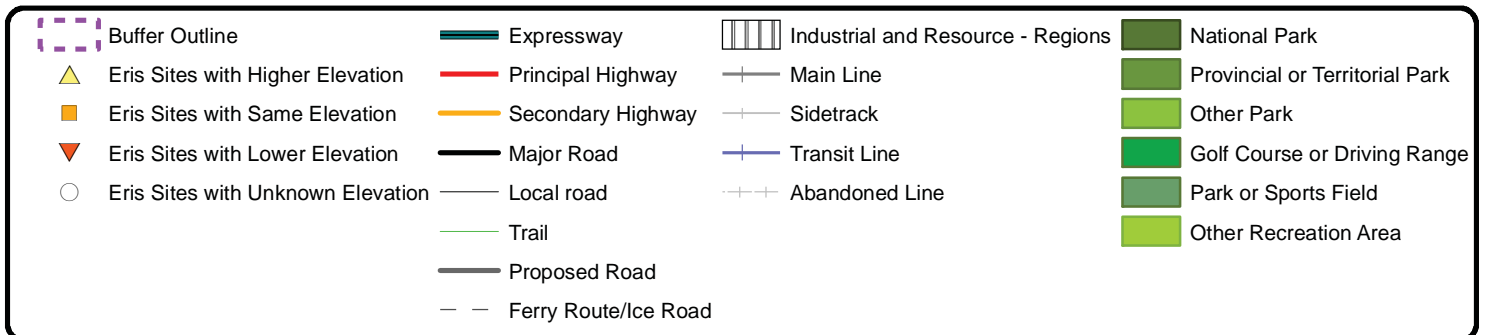


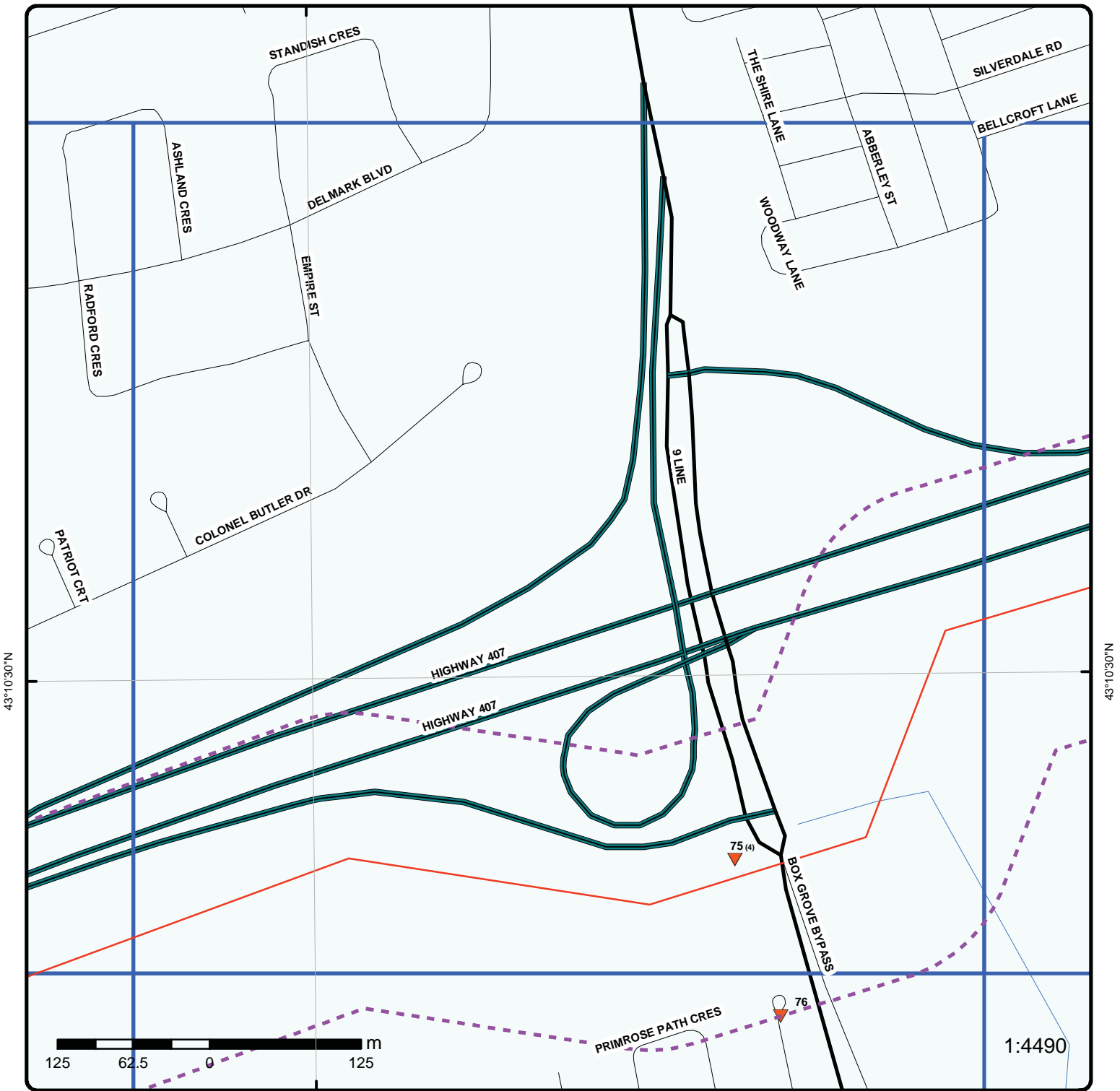


Grid 31

Order No: 20150604109

Address: Hwy 407 Transitway, Markham, ON





Grid 32

Order No: 20150604109

Address: Hwy 407 Transitway, Markham, ON

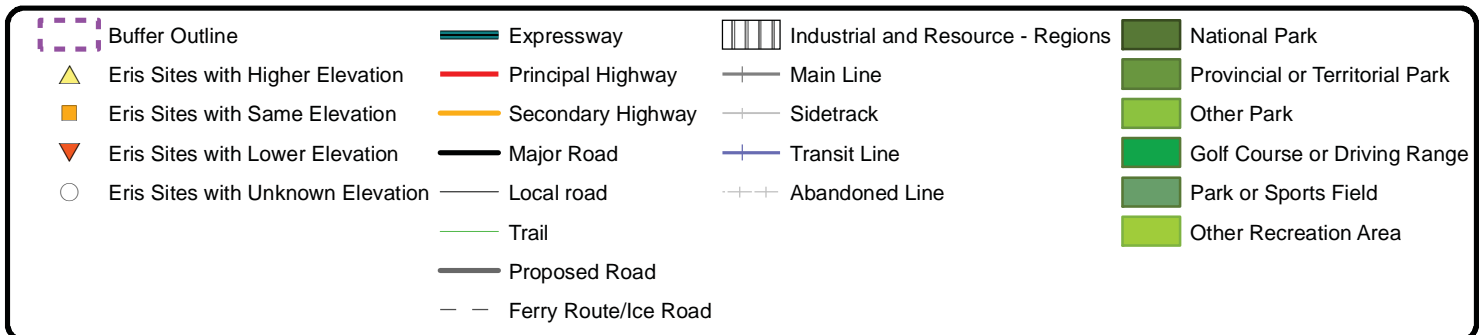
Buffer Outline	Expressway	Industrial and Resource - Regions	National Park
Eris Sites with Higher Elevation	Principal Highway	Main Line	Provincial or Territorial Park
Eris Sites with Same Elevation	Secondary Highway	Sidetrack	Other Park
Eris Sites with Lower Elevation	Major Road	Transit Line	Golf Course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



Grid 33

Order No: 20150604109

Address: Hwy 407 Transitway, Markham, ON



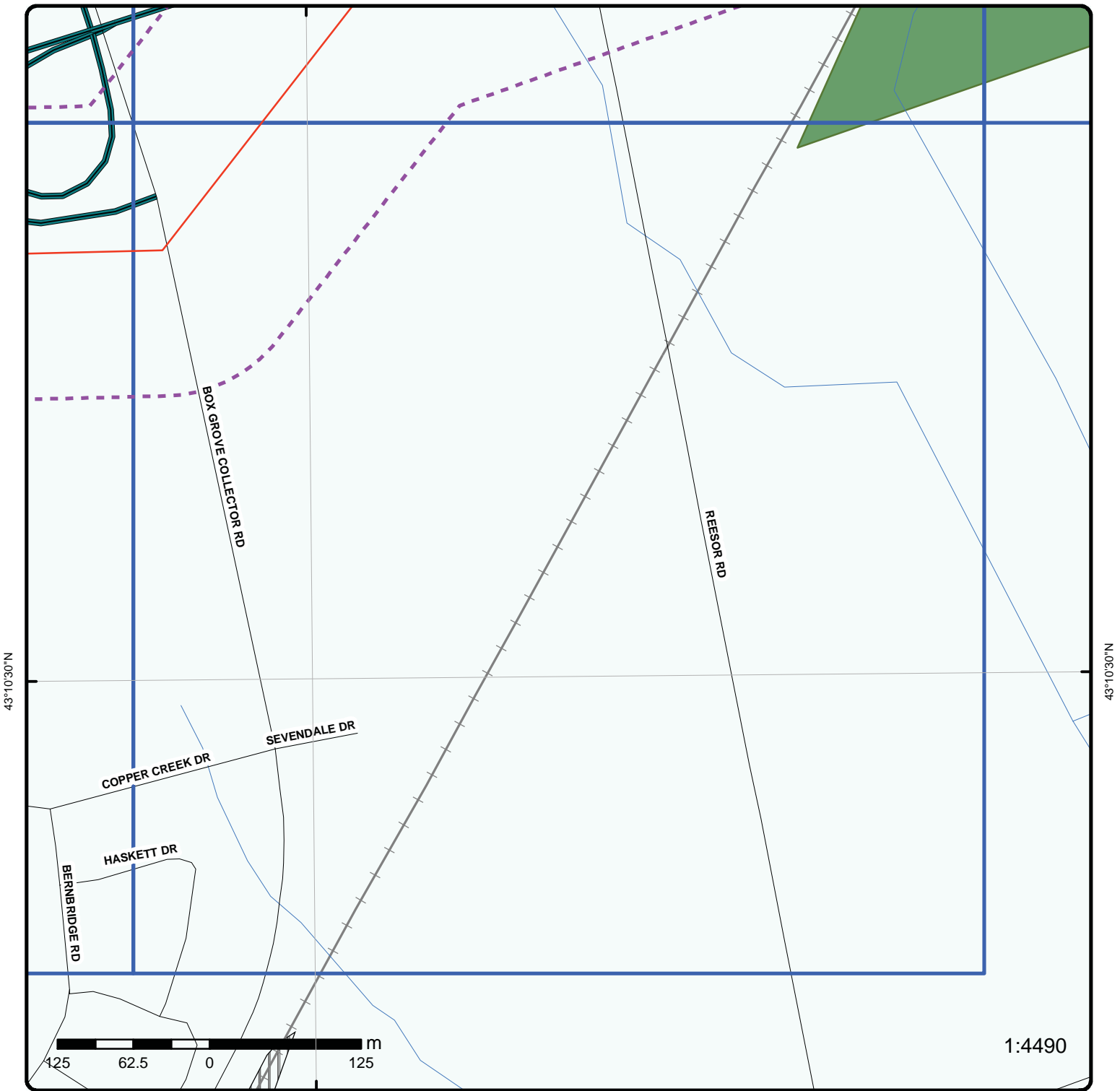


Grid 34

Order No: 20150604109

Address: Hwy 407 Transitway, Markham, ON

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



1:4490

Grid 35

Order No: 20150604109

Address: Hwy 407 Transitway, Markham, ON

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

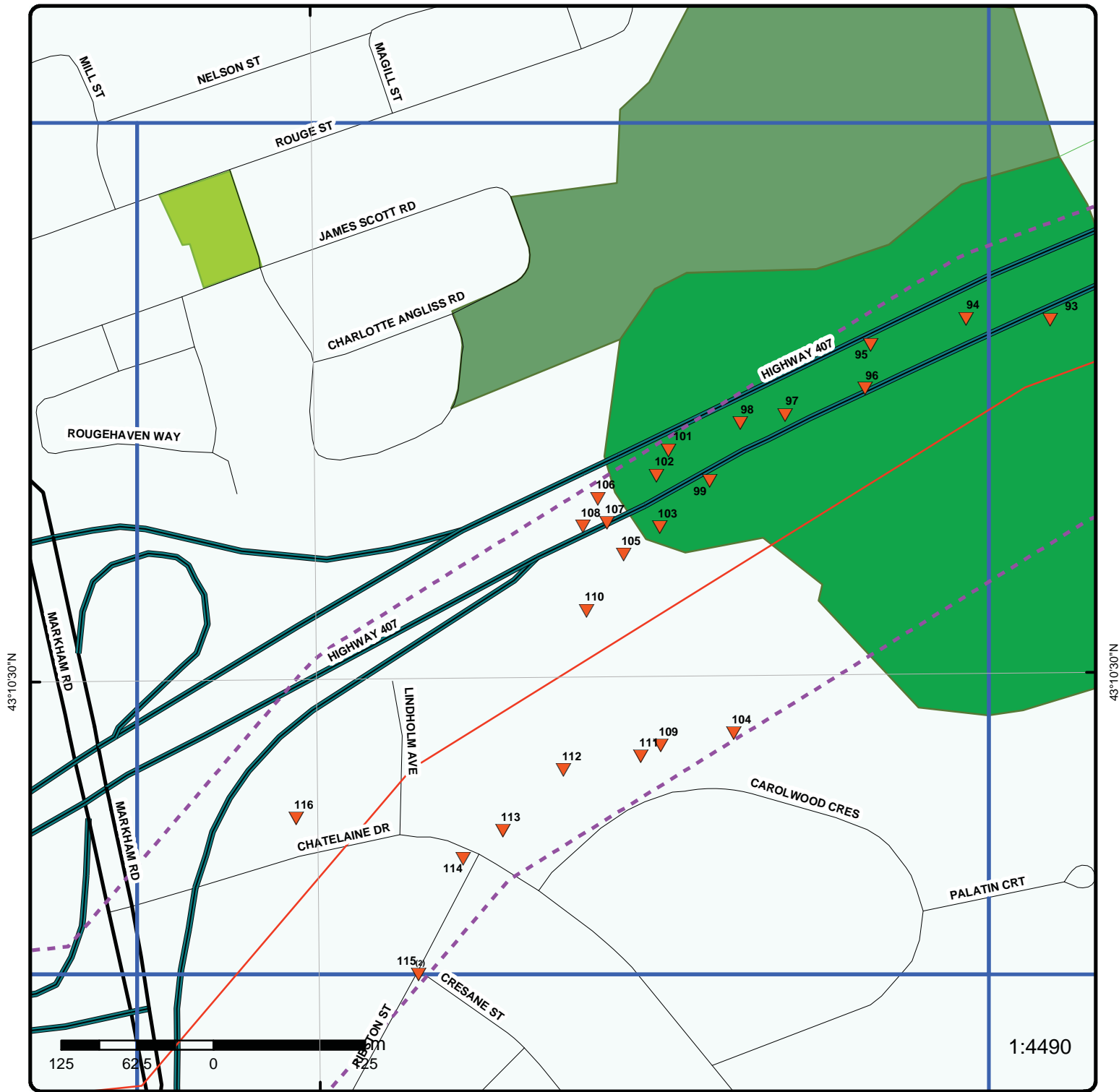


Grid 36

Order No: 20150604109

Address: Hwy 407 Transitway, Markham, ON

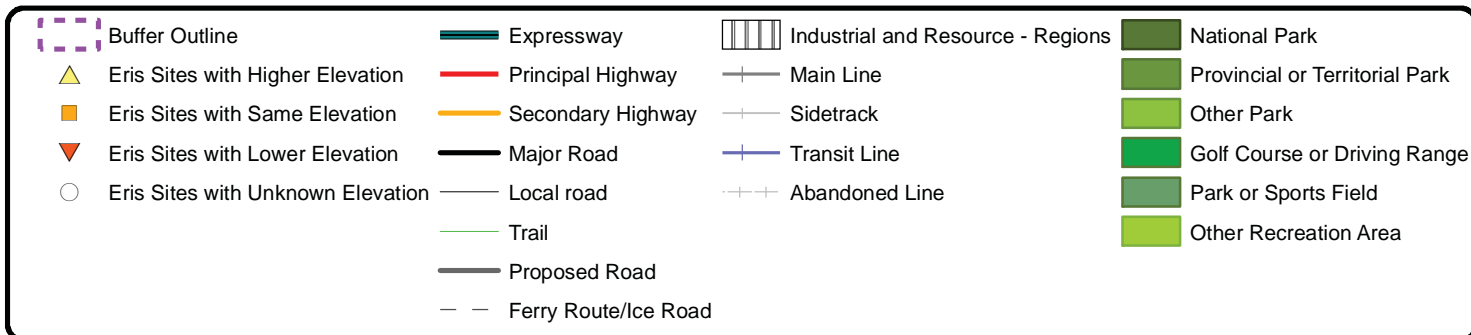
Buffer Outline	Expressway	Industrial and Resource - Regions	National Park
Eris Sites with Higher Elevation	Principal Highway	Main Line	Provincial or Territorial Park
Eris Sites with Same Elevation	Secondary Highway	Sidetrack	Other Park
Eris Sites with Lower Elevation	Major Road	Transit Line	Golf Course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

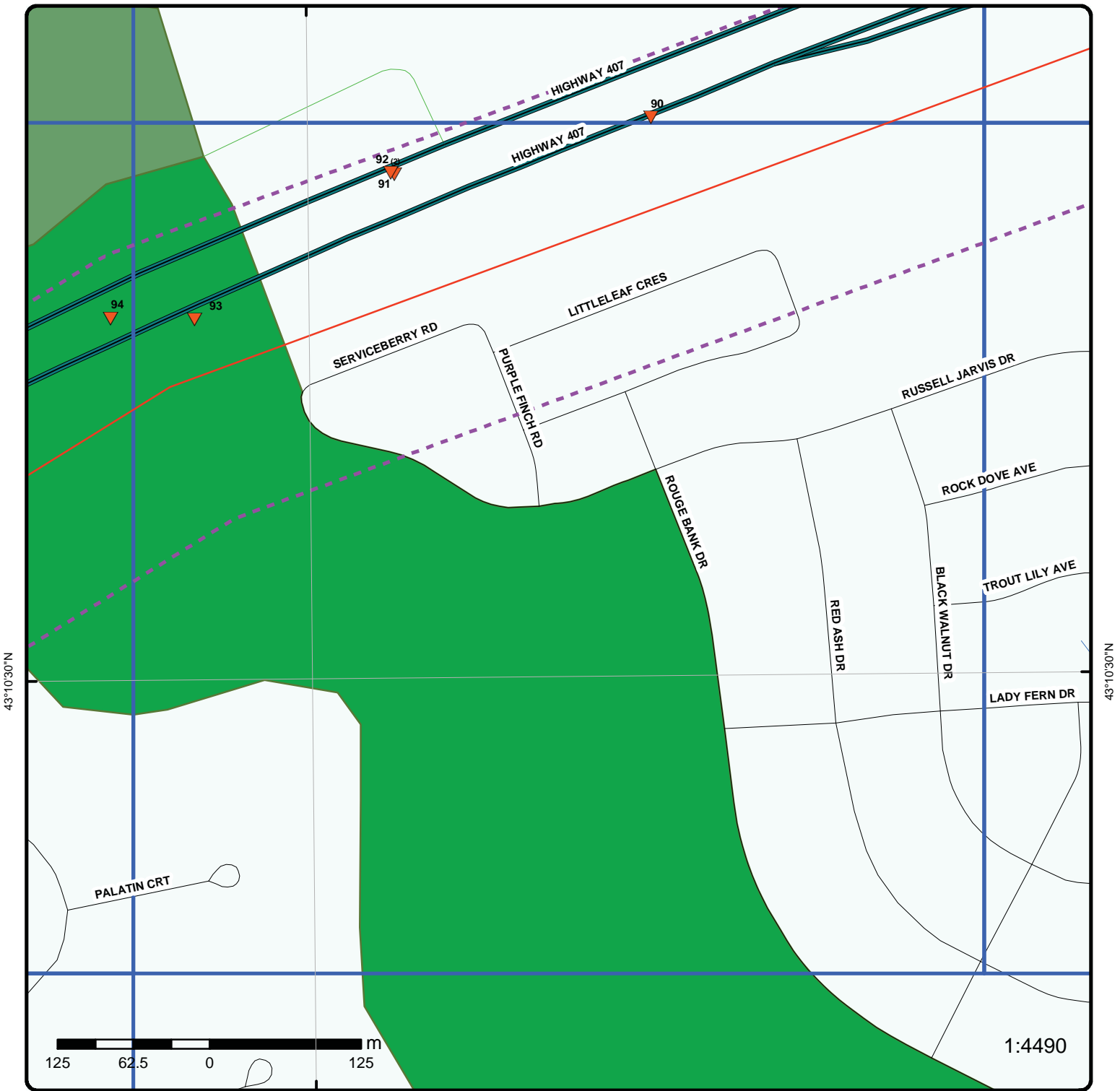


Grid 37

Order No: 20150604109

Address: Hwy 407 Transitway, Markham, ON



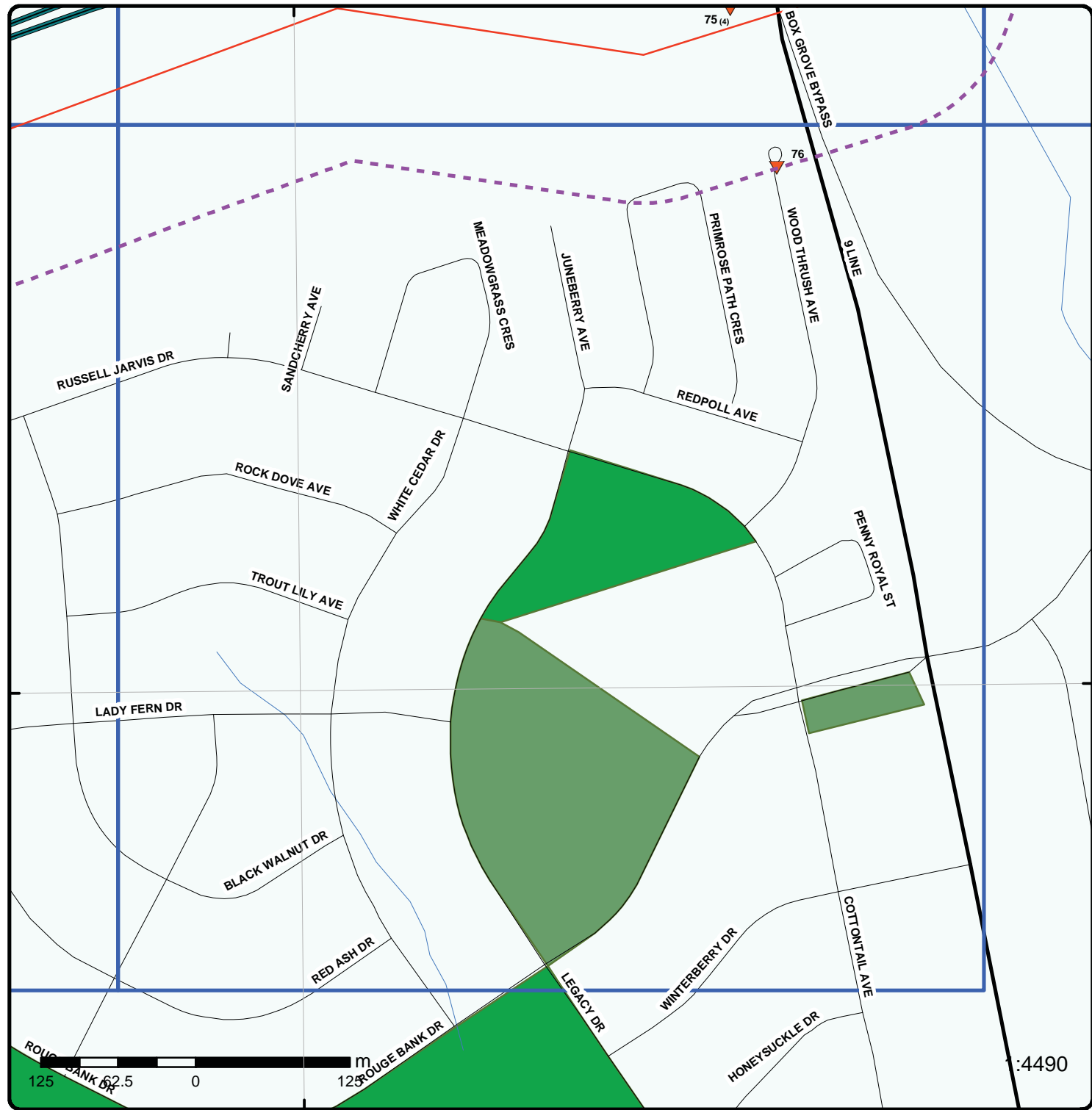


Grid 38

Order No: 20150604109

Address: Hwy 407 Transitway, Markham, ON

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

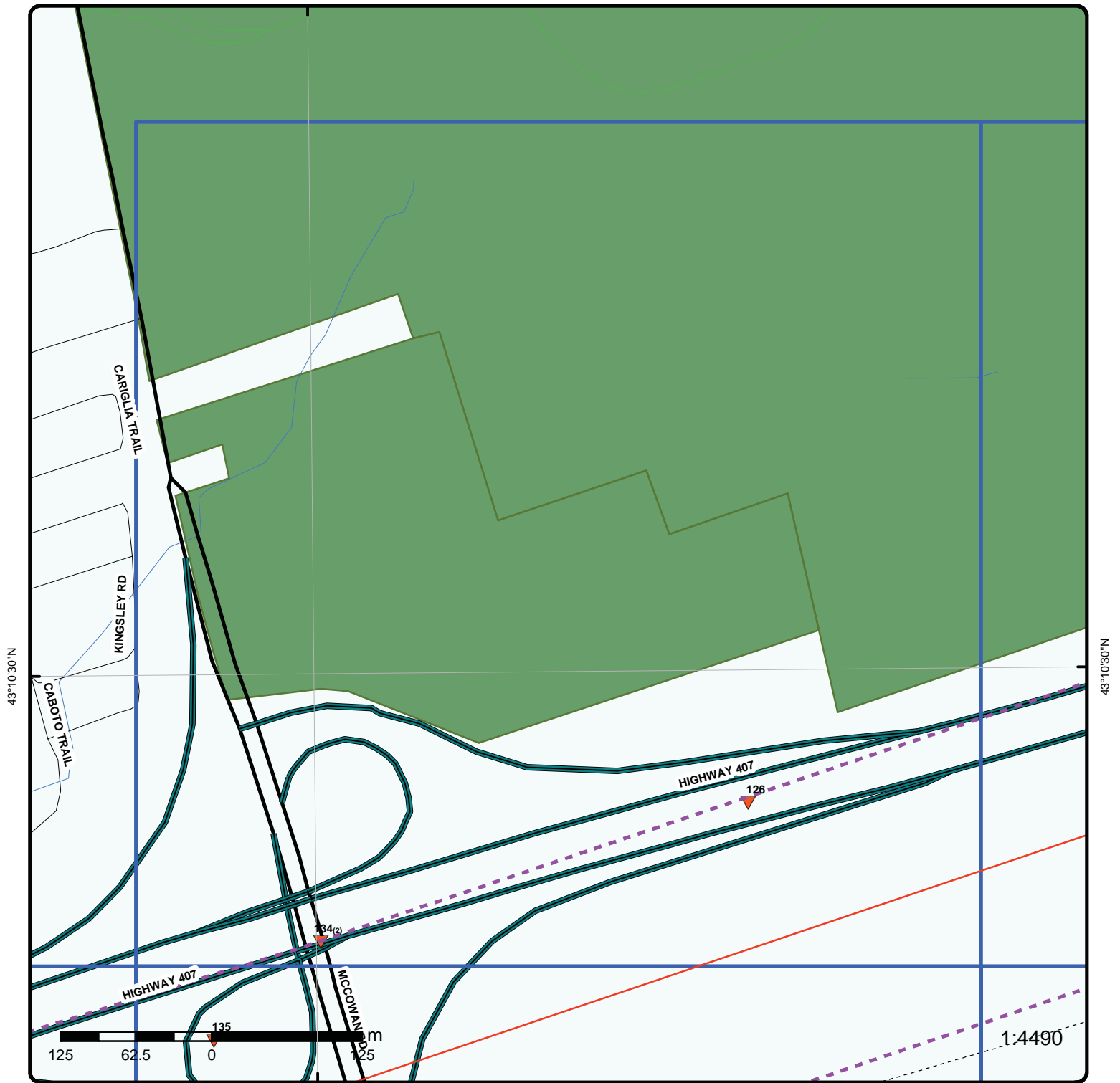


Grid 39

Order No: 20150604109

Address: Hwy 407 Transitway, Markham, ON

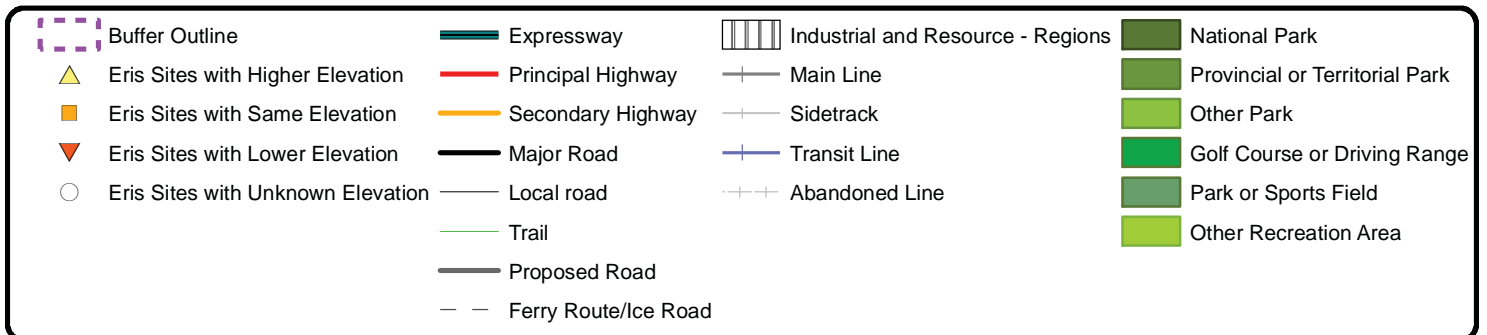
	Buffer Outline		Expressway		Industrial and Resource - Regions		National Park
	Eris Sites with Higher Elevation		Principal Highway		Main Line		Provincial or Territorial Park
	Eris Sites with Same Elevation		Secondary Highway		Sidetrack		Other Park
	Eris Sites with Lower Elevation		Major Road		Transit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

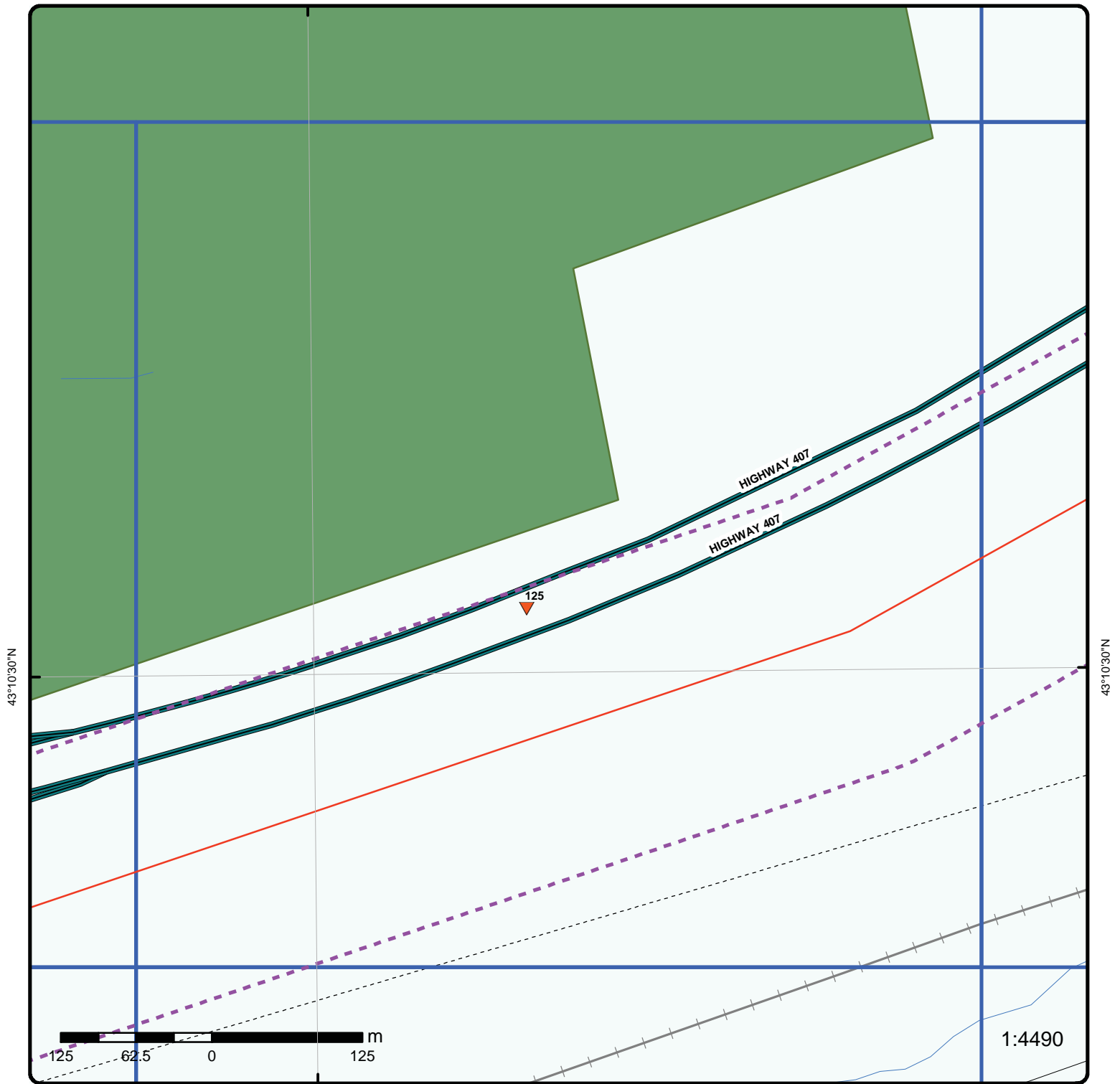


Grid 40

Order No: 20150604109

Address: Hwy 407 Transitway, Markham, ON

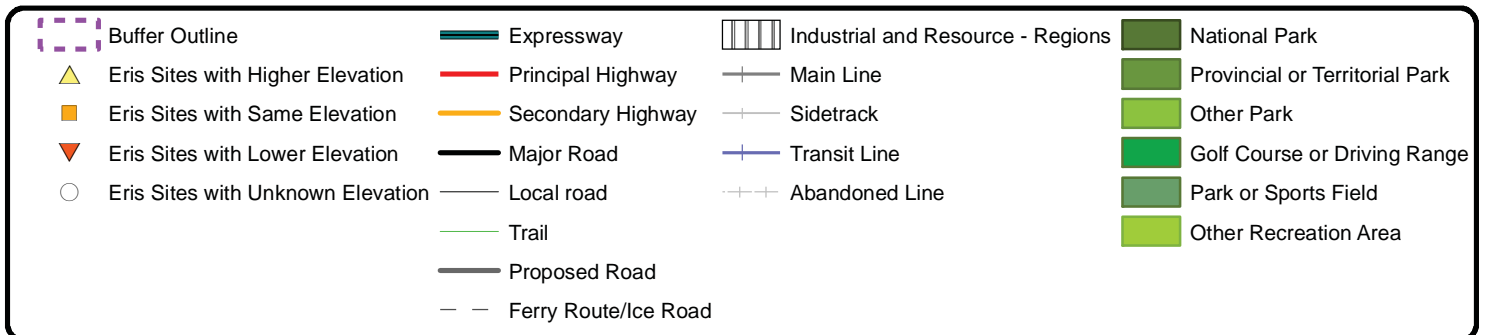


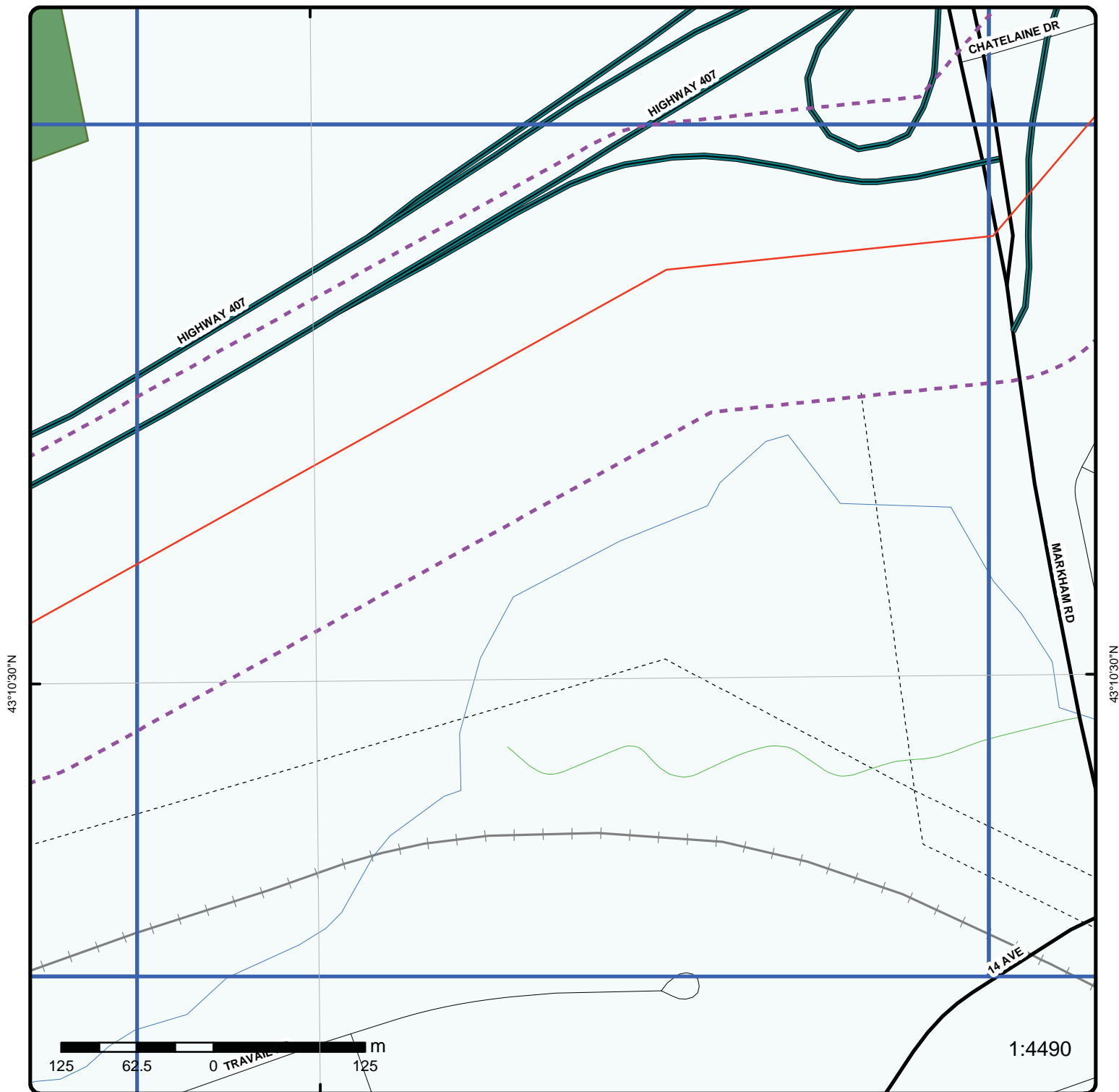


Grid 41

Order No: 20150604109

Address: Hwy 407 Transitway, Markham, ON

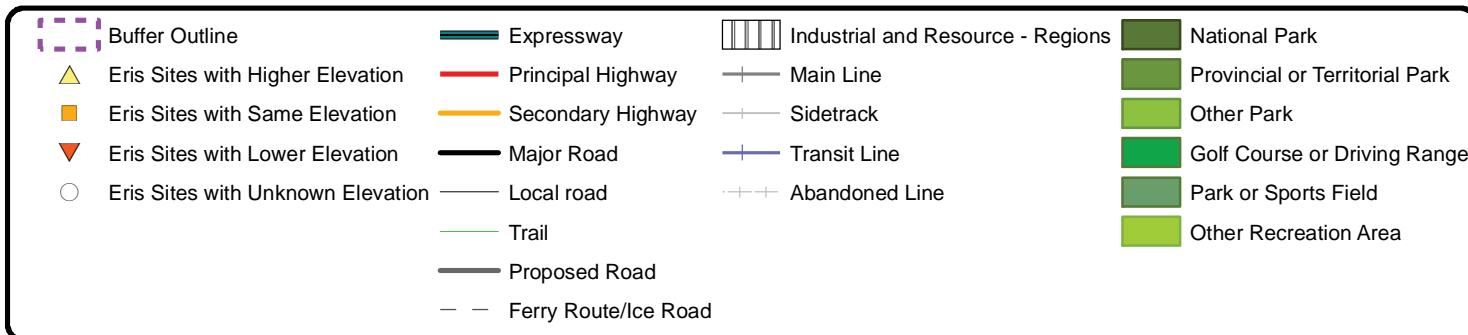




Grid 42

Order No: 20150604109

Address: Hwy 407 Transitway, Markham, ON

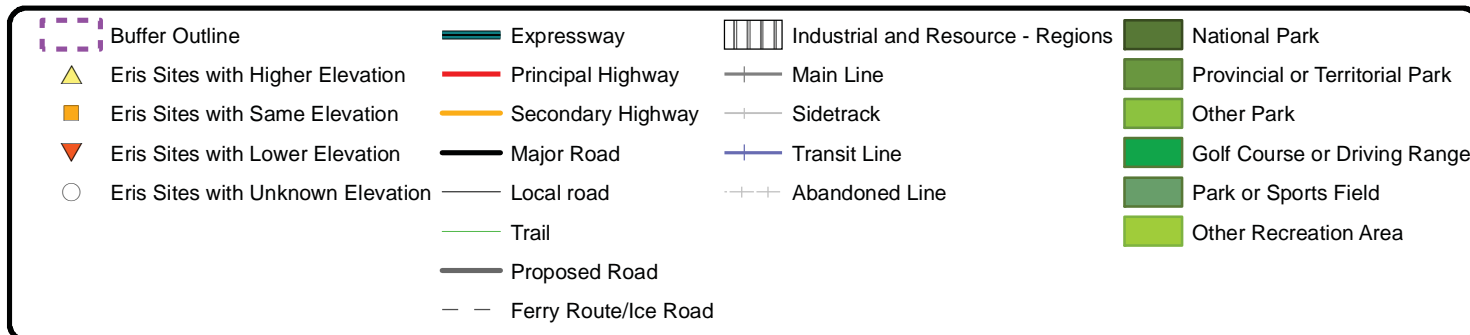


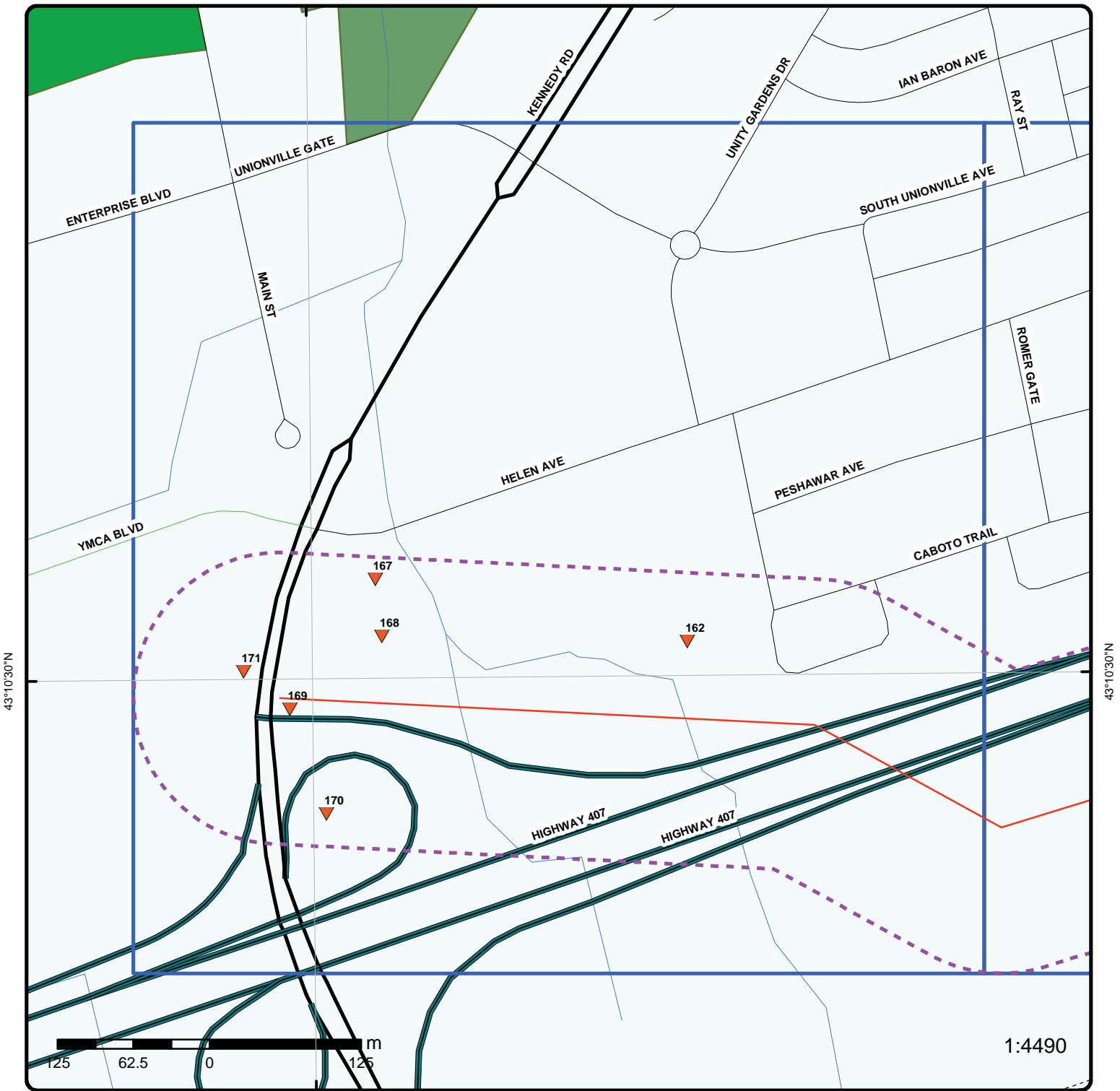


Grid 43

Order No: 20150604109

Address: Hwy 407 Transitway, Markham, ON





Grid 44

Order No: 20150604109

Address: Hwy 407 Transitway, Markham, ON

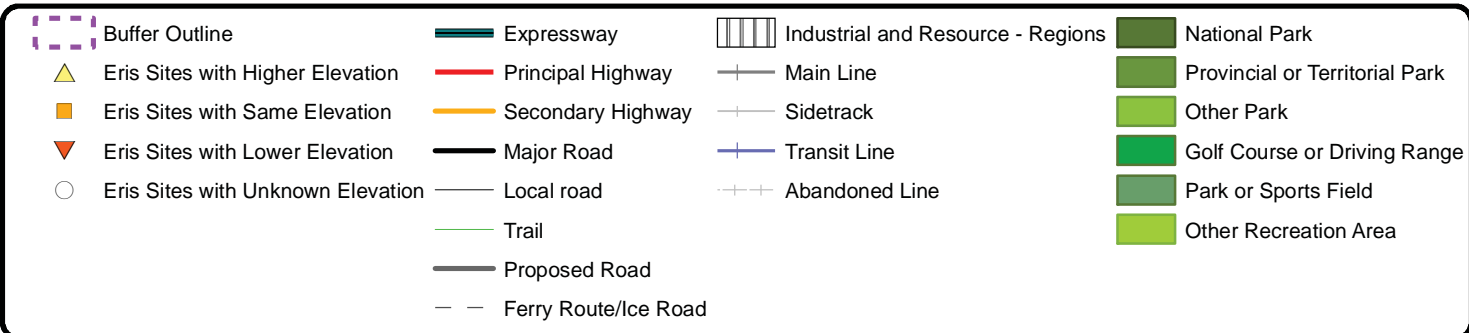
Buffer Outline	Expressway	Industrial and Resource - Regions	National Park
Eris Sites with Higher Elevation	Principal Highway	Main Line	Provincial or Territorial Park
Eris Sites with Same Elevation	Secondary Highway	Sidetrack	Other Park
Eris Sites with Lower Elevation	Major Road	Transit Line	Golf Course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



Grid 45

Order No: 20150604109

Address: Hwy 407 Transitway, Markham, ON

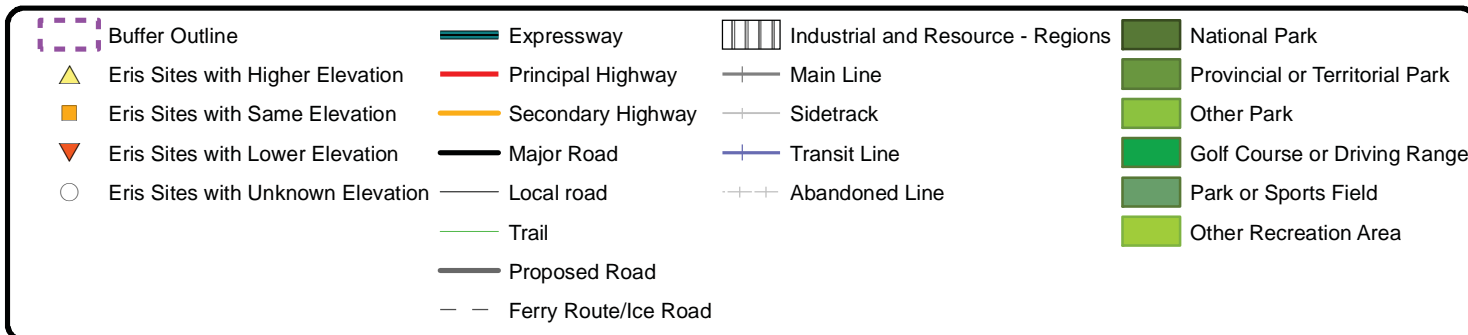




Grid 46

Order No: 20150604109

Address: Hwy 407 Transitway, Markham, ON

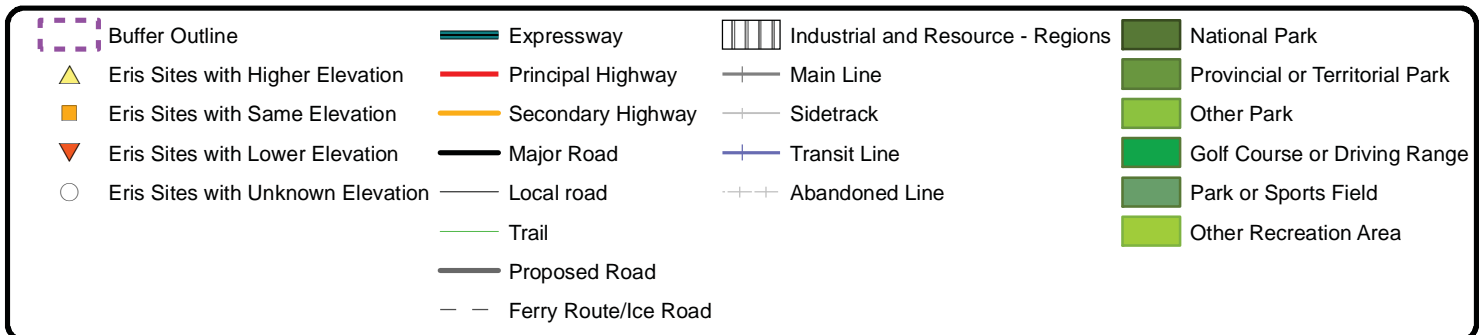


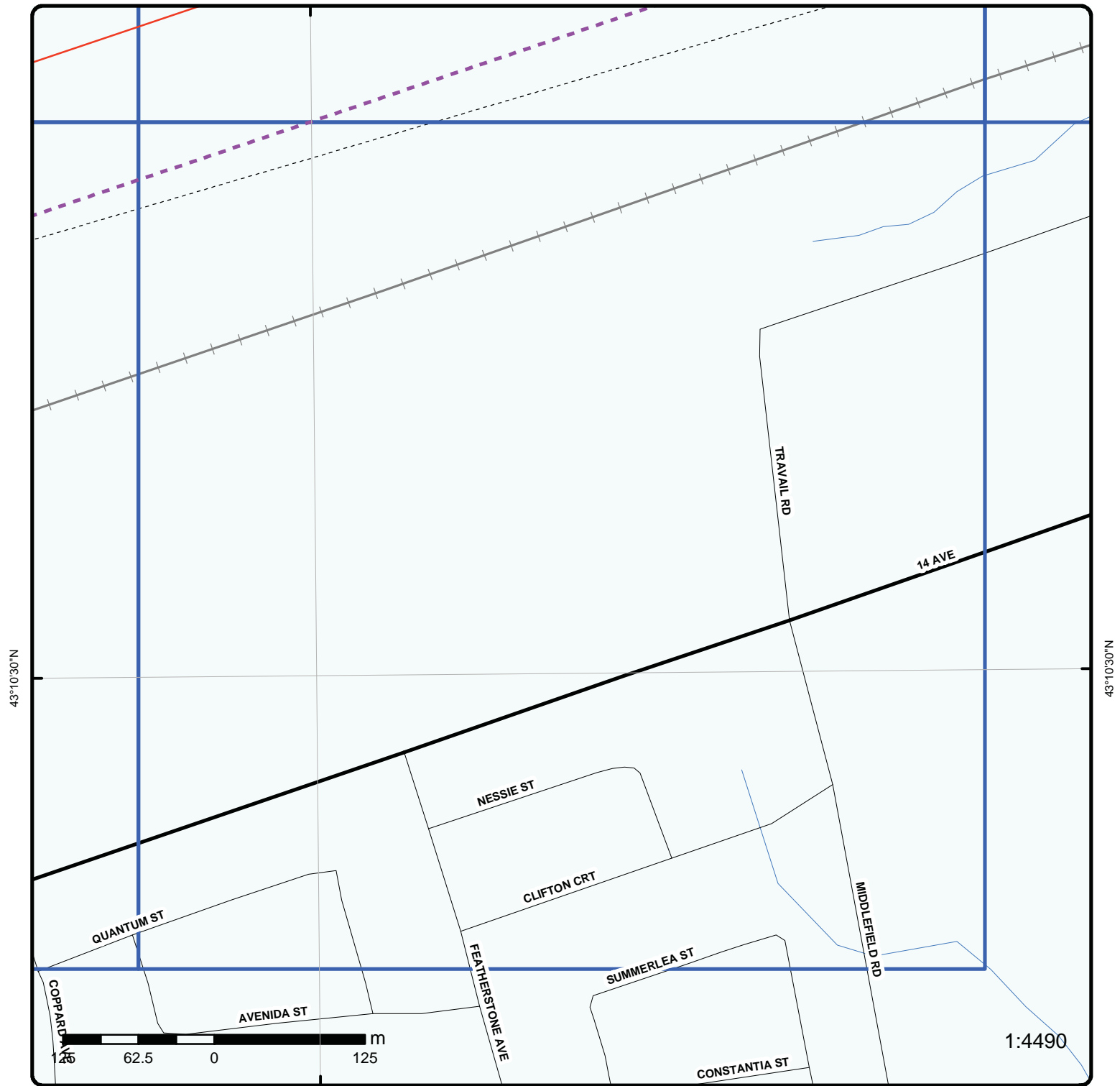


Grid 47

Order No: 20150604109

Address: Hwy 407 Transitway, Markham, ON

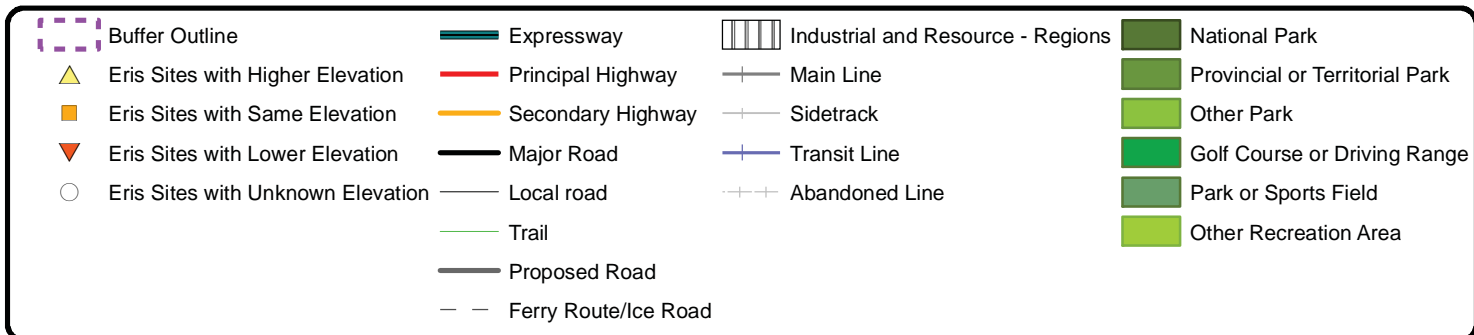




Grid 48

Order No: 20150604109

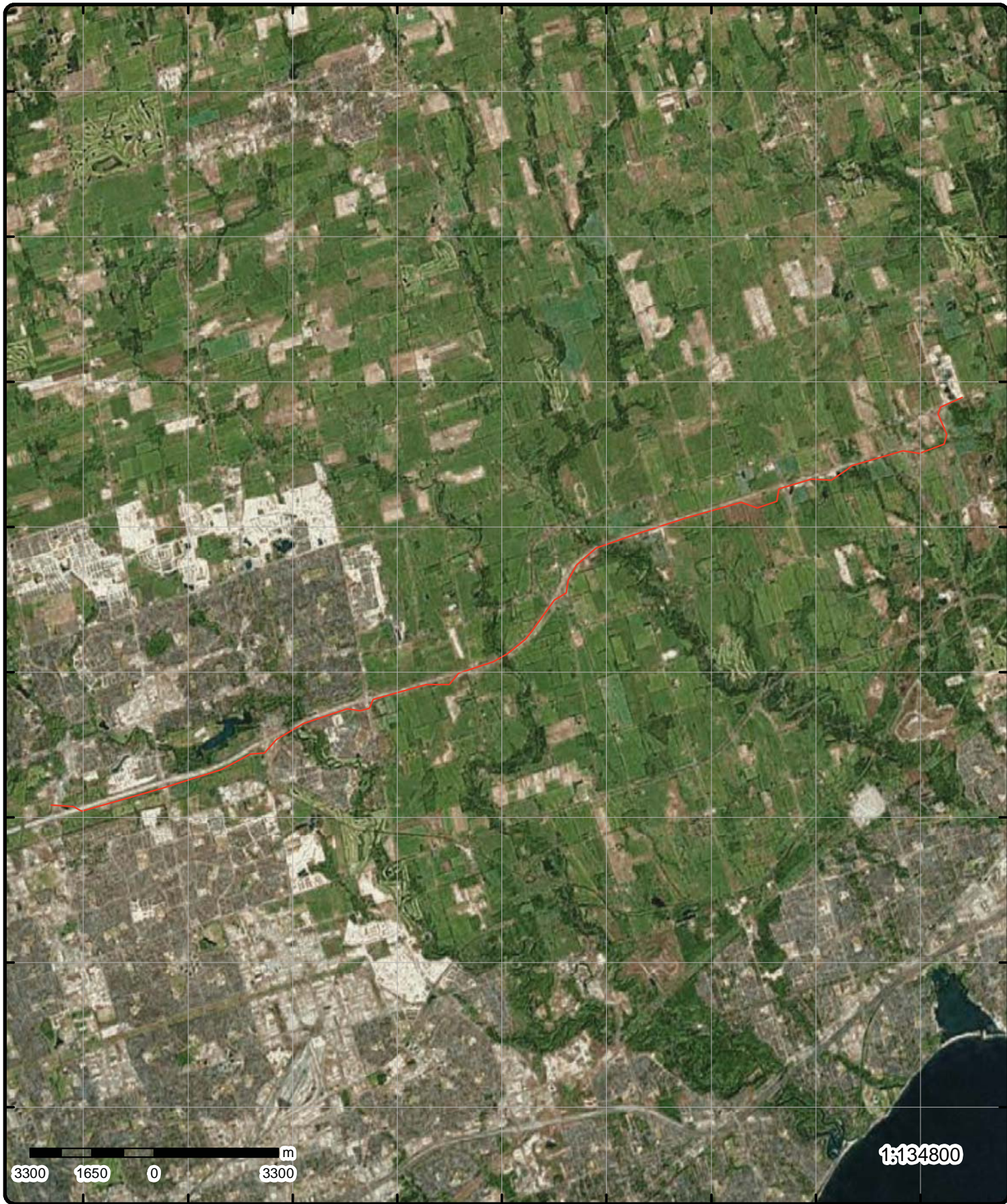
Address: Hwy 407 Transitway, Markham, ON



79°18'W 79°16'30"W 79°15'W 79°13'30"W 79°12'W 79°10'30"W 79°9'W 79°7'30"W 79°6'W

43°58'30"N
43°57'N
43°55'30"N
43°54'N
43°52'30"N
43°51'N
43°49'30"N
43°48'N

43°58'30"N
43°57'N
43°55'30"N
43°54'N
43°52'30"N
43°51'N
43°49'30"N
43°48'N



Aerial

Order No: 20150604109

Address: Hwy 407 Transitway, Markham, ON

Source: ESRI World Imagery, Updated October 2014

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Detail Report

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
<u>1</u>	1 of 1	NNE/79.6	195.3	Parcel 6 Markham, Pickering ON	EHS
Order No.:		19990614006			
Report Date:		6/18/99			
Report Type:		Custom Report			
Search Radius (km):		10.00			
Addit. Info Ordered:					
<u>2</u>	1 of 1	WSW/59.5	184.4	Parcel 5 Markham ON	EHS
Order No.:		19990614005			
Report Date:		6/18/99			
Report Type:		Custom Report			
Search Radius (km):		10.00			
Addit. Info Ordered:					
<u>3</u>	1 of 1	SW/104.9	182.5	lot 8 con 10 ON	WWIS
Well ID:		6923593		Lot: 008	
Concession:		10		Concession Name: CON	
County:		YORK		Municipality: MARKHAM TOWN (MARKHAM TWP)	
Easting Nad83:		644088		Northing Nad83: 4859529	
Zone:		17		Utm Reliability: margin of error : 3 - 10 m	
Primary Water Use:		Domestic		Construction Date: 30-MAR-96	
Sec. Water Use:				Well Depth: 240 ft	
Pump Rate:		7 GPM		Static Water Level: 60 ft	
Flow Rate:				Clear/Cloudy: CLEAR	
Specific Capacity:				Final Well Status: Water Supply	
Construction Method:		Cable Tool		Flowing (y/n): N	
Elevation (m):		189.55		Elevation Reliability:	
Depth to Bedrock:				Overburden/Bedrock: Unknown type in the lower layers(s)	
Water Type:		FRESH		Casing Material: FRESH	
--- Details ---					
Thickness:				Original Depth: 1 ft	
Material Colour:		TOPSOIL		Material: 1 ft	
+					
Thickness:				Original Depth: 27 ft	
Material Colour:		SAND, GRAVEL		Material: 26 ft	
+					
Thickness:				Original Depth: 147 ft	
Material Colour:		CLAY, GRAVEL		Material: 120 ft	
+					

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Thickness:				Original Depth:	187 ft
Material Colour:	CLAY			Material:	40 ft
+					
Thickness:				Original Depth:	203 ft
Material Colour:	SILT			Material:	16 ft
+					
Thickness:				Original Depth:	234 ft
Material Colour:	CLAY, GRAVEL			Material:	31 ft
+					
Thickness:				Original Depth:	240 ft
Material Colour:				Material:	6 ft

4 1 of 1 WSW/95.8 185.4 **lot 8 con 10 ON** WWIS

Well ID:	6904125	Lot:	008
Concession:	10	Concession Name:	CON
County:	YORK	Municipality:	MARKHAM TOWN (MARKHAM TWP)
Easting Nad83:	643969.7	Northing Nad83:	4859700
Zone:	17	Utm Reliability:	margin of error : 100 m - 300 m
Primary Water Use:	Domestic	Construction Date:	21-APR-62
Sec. Water Use:		Well Depth:	20 ft
Pump Rate:		Static Water Level:	6 ft
Flow Rate:		Clear/Cloudy:	CLEAR
Specific Capacity:		Final Well Status:	Water Supply
Construction Method:	Boring	Flowing (y/n):	N
Elevation (m):	190.69	Elevation Reliability:	
Depth to Bedrock:		Overburden/Bedrock:	Overburden
Water Type:	FRESH	Casing Material:	SULPHUR

--- Details ---

Thickness:		Original Depth:	1 ft
Material Colour:	TOPSOIL	Material:	1 ft
+			
Thickness:	YELLOW	Original Depth:	14 ft
Material Colour:	CLAY	Material:	13 ft
+			
Thickness:		Original Depth:	20 ft
Material Colour:	GRAVEL	Material:	6 ft

5 1 of 1 NE/116.5 196.8 **lot 10 con 11 ON** WWIS

Well ID:	6904131	Lot:	010
Concession:	11	Concession Name:	CON
County:	YORK	Municipality:	MARKHAM TOWN (MARKHAM TWP)
Easting Nad83:	645817.7	Northing Nad83:	4860972
Zone:	17	Utm Reliability:	margin of error : 100 m - 300 m
Primary Water Use:	Irrigation	Construction Date:	24-OCT-63
Sec. Water Use:		Well Depth:	41 ft
Pump Rate:		Static Water Level:	20 ft
Flow Rate:		Clear/Cloudy:	CLEAR
Specific Capacity:		Final Well Status:	Water Supply
Construction Method:	Boring	Flowing (y/n):	N
Elevation (m):	203.6	Elevation Reliability:	

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Depth to Bedrock:				Overburden/Bedrock:	Overburden
Water Type:	FRESH			Casing Material:	SULPHUR
--- Details ---					
Thickness:				Original Depth:	41 ft
Material Colour:	MEDIUM SAND			Material:	1 ft
+					
Thickness:	BLUE			Original Depth:	40 ft
Material Colour:	CLAY			Material:	28 ft
+					
Thickness:	BROWN			Original Depth:	12 ft
Material Colour:	CLAY			Material:	11 ft
+					
Thickness:				Original Depth:	1 ft
Material Colour:	TOPSOIL			Material:	1 ft

<u>6</u>	1 of 1	WSW/120.1	185.6	Markham ON	WWIS
Well ID:	7128072			Lot:	
Concession:				Concession Name:	
County:	YORK			Municipality:	MARKHAM TOWN (MARKHAM TWP)
Easting Nad83:	643937			Northing Nad83:	4859714
Zone:	17			Utm Reliability:	margin of error : 30 m - 100 m
Primary Water Use:	Monitoring			Construction Date:	20-MAY-09
Sec. Water Use:				Well Depth:	63.35 m
Pump Rate:				Static Water Level:	
Flow Rate:				Clear/Cloudy:	
Specific Capacity:				Final Well Status:	Observation Wells
Construction Method:	Diamond			Flowing (y/n):	
Elevation (m):	191			Elevation Reliability:	
Depth to Bedrock:				Overburden/Bedrock:	
Water Type:				Casing Material:	FRESH, Not stated
--- Details ---					
Thickness:	BROWN			Original Depth:	.69 m
Material Colour:	CLAY, TOPSOIL, SILT			Material:	.69 m
+					
Thickness:	GREY			Original Depth:	4.42 m
Material Colour:	SILT, TILL			Material:	3.73 m
+					
Thickness:	GREY			Original Depth:	5.41 m
Material Colour:	SAND, GRAVEL, SILT			Material:	.99 m
+					
Thickness:	GREY			Original Depth:	6.25 m
Material Colour:	SAND, TILL, SILT			Material:	.84 m
+					
Thickness:	GREY			Original Depth:	7.92 m
Material Colour:	SILT, TILL, SAND			Material:	1.67 m
+					
Thickness:	GREY			Original Depth:	8.61 m
Material Colour:	SAND, GRAVEL, SILT			Material:	.69 m
+					

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Thickness:	GREY			Original Depth:	10.97 m
Material Colour:	FINE SAND, SILT			Material:	2.36 m
+					
Thickness:	GREY			Original Depth:	44.25 m
Material Colour:	SILT, TILL, CLAY			Material:	33.28 m
+					
Thickness:	GREY			Original Depth:	44.81 m
Material Colour:	SILT, SAND, GRAVEL			Material:	.56 m
+					
Thickness:	GREY			Original Depth:	44.96 m
Material Colour:	SAND, GRAVEL, SILT			Material:	.15 m
+					
Thickness:	GREY			Original Depth:	56.9 m
Material Colour:	SILT, TILL, CLAY			Material:	11.94 m
+					
Thickness:	GREY			Original Depth:	63.35 m
Material Colour:	SILT, CLAY, SAND			Material:	6.45 m

<u>7</u>	1 of 2	WSW/15.9	184.0	ON	BORE
Borehole ID:	867015			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Solid stem auger			UTM Zone:	17
Easting:	643958			Northing:	4859610
Location Accuracy:				Orig. Ground Elev m:	193
Elev. Reliability Note:				DEM Ground Elev m:	189
Total Depth m:	10.8			Primary Name:	
Township:	MARKHAM			Concession:	CON 10
Lot:	0			Municipality:	
Completion Date:	12-JAN-1994			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7018647			Top Depth(m):	0.0
Bottom Depth(m):	0.6			Stratum Desc:	Granular fill
+					
Stratum ID:	7018648			Top Depth(m):	0.6
Bottom Depth(m):	10.8			Stratum Desc:	Heterogeneous mixture of clayey silt, trace gravel, occasional sand layers, cobbles and boulders. (Glacial till). Brown to grey. Very stiff to hard

<u>7</u>	2 of 2	WSW/15.9	184.0	ON	BORE
Borehole ID:	866161			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Solid stem auger			UTM Zone:	17
Easting:	643958			Northing:	4859611
Location Accuracy:				Orig. Ground Elev m:	193
Elev. Reliability Note:				DEM Ground Elev m:	189
Total Depth m:	10.8			Primary Name:	
Township:	MARKHAM			Concession:	CON 10
Lot:	0			Municipality:	

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Completion Date:	12-JAN-1994			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7015891			Top Depth(m):	0.0
Bottom Depth(m):	0.5			Stratum Desc:	Granular fill
+					
Stratum ID:	7015892			Top Depth(m):	0.5
Bottom Depth(m):	10.8			Stratum Desc:	Heterogeneous mixture of clayey silt, trace gravel, occasional sand layers, cobbles and boulders. Very stiff to hard. Brown to grey. (Glacial till)

<u>8</u>	1 of 1	WSW/53.1	182.7	lot 7 con 10 MARKHAM ON	WWIS
Well ID:	1918136			Lot:	007
Concession:	10			Concession Name:	
County:	DURHAM			Municipality:	
Easting Nad83:				Northing Nad83:	
Zone:				Utm Reliability:	unknown UTM
Primary Water Use:	Domestic			Construction Date:	16-MAR-06
Sec. Water Use:				Well Depth:	
Pump Rate:				Static Water Level:	
Flow Rate:				Clear/Cloudy:	
Specific Capacity:				Final Well Status:	Abandoned-Quality
Construction Method:	Boring			Flowing (y/n):	
Elevation (m):				Elevation Reliability:	
Depth to Bedrock:				Overburden/Bedrock:	No formation data
Water Type:				Casing Material:	

<u>9</u>	1 of 1	NE/74.1	196.8	lot 35 con 5 ON	WWIS
Well ID:	4601554			Lot:	035
Concession:	05			Concession Name:	CON
County:	DURHAM			Municipality:	PICKERING TOWN
Easting Nad83:	645764.7			Northing Nad83:	4861277
Zone:	17			Utm Reliability:	margin of error : 100 m - 300 m
Primary Water Use:	Domestic			Construction Date:	28-OCT-63
Sec. Water Use:				Well Depth:	54 ft
Pump Rate:				Static Water Level:	22 ft
Flow Rate:				Clear/Cloudy:	CLEAR
Specific Capacity:				Final Well Status:	Water Supply
Construction Method:	Boring			Flowing (y/n):	N
Elevation (m):	205.12			Elevation Reliability:	
Depth to Bedrock:				Overburden/Bedrock:	Overburden
Water Type:	FRESH			Casing Material:	SULPHUR
--- Details ---					
Thickness:	BLUE			Original Depth:	54 ft
Material Colour:	CLAY, MEDIUM SAND			Material:	16 ft
+					
Thickness:				Original Depth:	1 ft
Material Colour:	TOPSOIL			Material:	1 ft
+					

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Thickness:	YELLOW			Original Depth:	14 ft
Material Colour:	CLAY			Material:	13 ft
+					
Thickness:	BLUE			Original Depth:	38 ft
Material Colour:	CLAY, STONES			Material:	24 ft

<u>10</u>	1 of 1	NNE/117.2	196.8	ON	BORE
Borehole ID:	867354			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Solid stem auger			UTM Zone:	17
Easting:	645725			Northing:	4861308
Location Accuracy:				Orig. Ground Elev m:	204
Elev. Reliability Note:				DEM Ground Elev m:	205
Total Depth m:	9.3			Primary Name:	
Township:	MARKHAM			Concession:	CON 11
Lot:	0			Municipality:	
Completion Date:	16-NOV-1998			Static Water Level:	2.4
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7019703			Top Depth(m):	0.0
Bottom Depth(m):	1.1			Stratum Desc:	Topsoil 250mm. Sandy silt, rootlets, brown, loose to compact, damp
+					
Stratum ID:	7019704			Top Depth(m):	1.1
Bottom Depth(m):	9.3			Stratum Desc:	Sandy silt to silty sand (Glacial till), trace of gravel and clay, occasional rock fragments below 6m, compact to very dense, damp to dry

<u>11</u>	1 of 1	NNE/110.4	196.8	ON	BORE
Borehole ID:	867357			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Solid stem auger			UTM Zone:	17
Easting:	645734			Northing:	4861330
Location Accuracy:				Orig. Ground Elev m:	204
Elev. Reliability Note:				DEM Ground Elev m:	206
Total Depth m:	12.3			Primary Name:	
Township:	PICKERING			Concession:	CON 5
Lot:	0			Municipality:	
Completion Date:	17-NOV-1998			Static Water Level:	9.1
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7019709			Top Depth(m):	0.0
Bottom Depth(m):	0.9			Stratum Desc:	Topsoil 230mm. Silty clay, roots, brown, firm, damp
+					
Stratum ID:	7019710			Top Depth(m):	0.9
Bottom Depth(m):	2.3			Stratum Desc:	Clayey silt to silty clay (glacial till), trace of fine gravel, brown, stiff to hard, moist
+					

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Stratum ID:	7019711			Top Depth(m):	2.3
Bottom Depth(m):	12.3			Stratum Desc:	Sandy silt to silty sand (glacial till), trace of gravel and clay, occasional rock fragments, boulders or cobbles below 4.6m, very dense, damp
12	1 of 7	NE/8.4	196.8	lot 35 con 5 ON	WWIS
Well ID:	1914989			Lot:	035
Concession:	05			Concession Name:	CON
County:	DURHAM			Municipality:	PICKERING TOWN
Easting Nad83:	645893.4			Northing Nad83:	4861465
Zone:	17			Utm Reliability:	unknown UTM
Primary Water Use:				Construction Date:	07-MAR-01
Sec. Water Use:				Well Depth:	
Pump Rate:				Static Water Level:	
Flow Rate:				Clear/Cloudy:	
Specific Capacity:				Final Well Status:	Abandoned-Other
Construction Method:	Not Known			Flowing (y/n):	
Elevation (m):	203.99			Elevation Reliability:	
Depth to Bedrock:				Overburden/Bedrock:	No formation data
Water Type:				Casing Material:	
12	2 of 7	NE/8.4	196.8	lot 35 con 5 ON	WWIS
Well ID:	1915468			Lot:	035
Concession:	05			Concession Name:	CON
County:	DURHAM			Municipality:	PICKERING TOWN
Easting Nad83:	645893.9			Northing Nad83:	4861465
Zone:	17			Utm Reliability:	unknown UTM
Primary Water Use:	Domestic			Construction Date:	28-NOV-01
Sec. Water Use:				Well Depth:	170 ft
Pump Rate:	3 GPM			Static Water Level:	90 ft
Flow Rate:				Clear/Cloudy:	CLEAR
Specific Capacity:				Final Well Status:	Water Supply
Construction Method:	Rotary (Air)			Flowing (y/n):	N
Elevation (m):	203.99			Elevation Reliability:	
Depth to Bedrock:				Overburden/Bedrock:	Overburden
Water Type:	FRESH			Casing Material:	FRESH
--- Details ---					
Thickness:	GREY			Original Depth:	170 ft
Material Colour:	CLAY			Material:	16 ft
+					
Thickness:	GREY			Original Depth:	154 ft
Material Colour:	SILT, FINE SAND, GRAVEL			Material:	16 ft
+					
Thickness:	GREY			Original Depth:	138 ft
Material Colour:	CLAY, GRAVEL			Material:	28 ft
+					
Thickness:	BROWN			Original Depth:	110 ft
Material Colour:	CLAY, GRAVEL			Material:	30 ft
+					

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Thickness:	BROWN			Original Depth:	68 ft
Material Colour:	CLAY, GRAVEL			Material:	35 ft
+					
Thickness:	GREY			Original Depth:	33 ft
Material Colour:	CLAY, GRAVEL			Material:	14 ft
+					
Thickness:				Original Depth:	1 ft
Material Colour:	TOPSOIL			Material:	1 ft
+					
Thickness:	BROWN			Original Depth:	19 ft
Material Colour:	SAND, GRAVEL			Material:	18 ft
+					
Thickness:	BROWN			Original Depth:	80 ft
Material Colour:	SAND			Material:	12 ft

<u>12</u>	3 of 7	NE/8.4	196.8	lot 35 con 5 ON	WWIS
Well ID:	1915535			Lot:	035
Concession:	05			Concession Name:	CON
County:	DURHAM			Municipality:	PICKERING TOWN
Easting Nad83:	645893.9			Northing Nad83:	4861465
Zone:	17			Utm Reliability:	unknown UTM
Primary Water Use:	Domestic			Construction Date:	20-DEC-01
Sec. Water Use:				Well Depth:	391 ft
Pump Rate:	6 GPM			Static Water Level:	39 ft
Flow Rate:				Clear/Cloudy:	
Specific Capacity:				Final Well Status:	Water Supply
Construction Method:	Rotary (Air)			Flowing (y/n):	N
Elevation (m):	203.99			Elevation Reliability:	
Depth to Bedrock:	389			Overburden/Bedrock:	Bedrock
Water Type:	Not stated			Casing Material:	FRESH, MINERIAL
--- Details ---					
Thickness:	GREY			Original Depth:	67 ft
Material Colour:	CLAY, GRAVEL			Material:	37 ft
+					
Thickness:	BLACK			Original Depth:	391 ft
Material Colour:	SHALE			Material:	2 ft
+					
Thickness:	GREY			Original Depth:	389 ft
Material Colour:	SAND, GRAVEL			Material:	39 ft
+					
Thickness:	GREY			Original Depth:	350 ft
Material Colour:	SILT			Material:	30 ft
+					
Thickness:	GREY			Original Depth:	30 ft
Material Colour:	SAND			Material:	5 ft
+					
Thickness:	BROWN			Original Depth:	25 ft
Material Colour:	CLAY, GRAVEL			Material:	23 ft
+					

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Thickness:				Original Depth:	2 ft
Material Colour:	TOPSOIL			Material:	2 ft
+					
Thickness:	GREY			Original Depth:	320 ft
Material Colour:	CLAY, GRAVEL			Material:	247 ft
+					
Thickness:	GREY			Original Depth:	73 ft
Material Colour:	SAND, GRAVEL, WATER-BEARING			Material:	6 ft
12	4 of 7	NE/8.4	196.8	lot 35 con 5 ON	WWIS
Well ID:	1915895			Lot:	035
Concession:	05			Concession Name:	CON
County:	DURHAM			Municipality:	PICKERING TOWN
Easting Nad83:	645893.9			Northing Nad83:	4861465
Zone:	17			Utm Reliability:	unknown UTM
Primary Water Use:				Construction Date:	22-MAR-02
Sec. Water Use:				Well Depth:	
Pump Rate:				Static Water Level:	
Flow Rate:				Clear/Cloudy:	
Specific Capacity:				Final Well Status:	Abandoned-Quality
Construction Method:	Other Method			Flowing (y/n):	
Elevation (m):	203.99			Elevation Reliability:	
Depth to Bedrock:				Overburden/Bedrock:	No formation data
Water Type:				Casing Material:	
12	5 of 7	NE/8.4	196.8	lot 35 con 5 ON	WWIS
Well ID:	1915878			Lot:	035
Concession:	05			Concession Name:	CON
County:	DURHAM			Municipality:	PICKERING TOWN
Easting Nad83:	645893.9			Northing Nad83:	4861465
Zone:	17			Utm Reliability:	unknown UTM
Primary Water Use:				Construction Date:	27-MAR-02
Sec. Water Use:				Well Depth:	
Pump Rate:				Static Water Level:	
Flow Rate:				Clear/Cloudy:	
Specific Capacity:				Final Well Status:	Abandoned-Other
Construction Method:	Not Known			Flowing (y/n):	
Elevation (m):	203.99			Elevation Reliability:	
Depth to Bedrock:				Overburden/Bedrock:	No formation data
Water Type:				Casing Material:	
12	6 of 7	NE/8.4	196.8	lot 35 con 5 ON	WWIS
Well ID:	1915286			Lot:	035
Concession:	05			Concession Name:	CON
County:	DURHAM			Municipality:	PICKERING TOWN
Easting Nad83:	645893.9			Northing Nad83:	4861465
Zone:	17			Utm Reliability:	unknown UTM
Primary Water Use:	Not Used			Construction Date:	07-JUN-01
Sec. Water Use:				Well Depth:	

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Pump Rate: Flow Rate: Specific Capacity: Construction Method: Other Method Elevation (m): 203.99 Depth to Bedrock: Water Type:				Static Water Level: Clear/Cloudy: Final Well Status: Abandoned-Quality Flowing (y/n): Elevation Reliability: Overburden/Bedrock: No formation data Casing Material:	
12	7 of 7	NE/8.4	196.8	lot 35 con 5 ON	WWIS
Well ID: 1916883 Concession: 05 County: DURHAM Easting Nad83: 645893.9 Zone: 17 Primary Water Use: Domestic Sec. Water Use: Pump Rate: 20 GPM Flow Rate: Specific Capacity: Construction Method: Rotary (Air) Elevation (m): 203.99 Depth to Bedrock: Water Type: FRESH				Lot: 035 Concession Name: CON Municipality: PICKERING TOWN Northing Nad83: 4861465 Utm Reliability: unknown UTM Construction Date: 20-NOV-03 Well Depth: 68 ft Static Water Level: 12 ft Clear/Cloudy: CLEAR Final Well Status: Water Supply Flowing (y/n): N Elevation Reliability: Overburden/Bedrock: Overburden Casing Material: FRESH	
--- Details ---					
Thickness: BROWN				Original Depth: 68 ft	
Material Colour: SAND, GRAVEL, LOOSE				Material: 4 ft	
+					
Thickness: GREY				Original Depth: 64 ft	
Material Colour: CLAY, GRAVEL, PACKED				Material: 14 ft	
+					
Thickness: GREY				Original Depth: 50 ft	
Material Colour: CLAY, DENSE				Material: 30 ft	
+					
Thickness: BROWN				Original Depth: 2 ft	
Material Colour: TOPSOIL, SOFT				Material: 2 ft	
+					
Thickness: BROWN				Original Depth: 20 ft	
Material Colour: CLAY, SAND, PACKED				Material: 18 ft	
13	1 of 1	NE/46.2	196.8	lot 34 con 5 ON	WWIS
Well ID: 4601546 Concession: 05 County: DURHAM Easting Nad83: 646167.7 Zone: 17 Primary Water Use: Domestic Sec. Water Use: Pump Rate: 0 GPM Flow Rate: Specific Capacity:				Lot: 034 Concession Name: CON Municipality: PICKERING TOWN Northing Nad83: 4861738 Utm Reliability: unknown UTM Construction Date: 02-JAN-52 Well Depth: 60 ft Static Water Level: 15 ft Clear/Cloudy: CLEAR Final Well Status: Water Supply	

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Construction Method:	Rotary (Convent.)			Flowing (y/n):	N
Elevation (m):	196.35			Elevation Reliability:	
Depth to Bedrock:				Overburden/Bedrock:	Overburden
Water Type:	FRESH			Casing Material:	FRESH
--- Details ---					
Thickness:				Original Depth:	60 ft
Material Colour:	MEDIUM SAND			Material:	2 ft
+					
Thickness:	BLUE			Original Depth:	58 ft
Material Colour:	CLAY, MEDIUM SAND			Material:	28 ft
+					
Thickness:				Original Depth:	10 ft
Material Colour:	TOPSOIL, MEDIUM SAND			Material:	10 ft
+					
Thickness:	BLUE			Original Depth:	30 ft
Material Colour:	CLAY			Material:	20 ft

14 **1 of 1** **NE/13.7** **196.8** **Parcel 7** **EHS**
Markham, Pickering ON

Order No.: 19990614007
Report Date: 6/18/99
Report Type: Custom Report
Search Radius (km): 10.00
Addit. Info Ordered:

15 **1 of 5** **WSW/98.6** **181.8** **lot 8 con 9** **WWIS**
ON

Well ID:	6926280	Lot:	008
Concession:	09	Concession Name:	CON
County:	YORK	Municipality:	MARKHAM TOWN (MARKHAM TWP)
Easting Nad83:	642999.9	Northing Nad83:	4859146
Zone:	17	Utm Reliability:	unknown UTM
Primary Water Use:		Construction Date:	09-JAN-02
Sec. Water Use:		Well Depth:	
Pump Rate:		Static Water Level:	
Flow Rate:		Clear/Cloudy:	
Specific Capacity:		Final Well Status:	Dewatering
Construction Method:	Not Known	Flowing (y/n):	
Elevation (m):	188.94	Elevation Reliability:	
Depth to Bedrock:		Overburden/Bedrock:	No formation data
Water Type:		Casing Material:	

15 **2 of 5** **WSW/98.6** **181.8** **lot 8 con 9** **WWIS**
ON

Well ID:	6926260	Lot:	008
Concession:	09	Concession Name:	CON
County:	YORK	Municipality:	MARKHAM TOWN (MARKHAM TWP)
Easting Nad83:	642999.9	Northing Nad83:	4859146
Zone:	17	Utm Reliability:	unknown UTM
Primary Water Use:		Construction Date:	07-JAN-02
Sec. Water Use:		Well Depth:	

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Pump Rate: Flow Rate: Specific Capacity: Construction Method: Not Known Elevation (m): 188.94 Depth to Bedrock: Water Type:				Static Water Level: Clear/Cloudy: Final Well Status: Dewatering Flowing (y/n): Elevation Reliability: Overburden/Bedrock: No formation data Casing Material:	
15	3 of 5	WSW/98.6	181.8	lot 8 con 9 ON	WWIS
Well ID: 6925708 Concession: 09 County: YORK Easting Nad83: 642999.4 Zone: 17 Primary Water Use: Not Used Sec. Water Use: Pump Rate: Flow Rate: Specific Capacity: Construction Method: Rotary (Air) Elevation (m): 188.94 Depth to Bedrock: Water Type: FRESH				Lot: 008 Concession Name: CON Municipality: MARKHAM TOWN (MARKHAM TWP) Northing Nad83: 4859146 Utm Reliability: unknown UTM Construction Date: 30-NOV-00 Well Depth: 122 ft Static Water Level: Clear/Cloudy: Final Well Status: Dewatering Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Overburden Casing Material: FRESH	
--- Details ---					
Thickness: GREY				Original Depth: 112 ft	
Material Colour: FINE SAND				Material: 12 ft	
+					
Thickness: BROWN				Original Depth: 12 ft	
Material Colour: CLAY, STONES				Material: 12 ft	
+					
Thickness: BLUE				Original Depth: 122 ft	
Material Colour: CLAY, SOFT				Material: 10 ft	
+					
Thickness: GREY				Original Depth: 70 ft	
Material Colour: COARSE GRAVEL				Material: 26 ft	
+					
Thickness: GREY				Original Depth: 44 ft	
Material Colour: CLAY, STONES				Material: 32 ft	
+					
Thickness: GREY				Original Depth: 100 ft	
Material Colour: SAND				Material: 30 ft	
15	4 of 5	WSW/98.6	181.8	lot 8 con 9 ON	WWIS
Well ID: 6925810 Concession: 09 County: YORK Easting Nad83: 642999.4 Zone: 17 Primary Water Use: Sec. Water Use:				Lot: 008 Concession Name: CON Municipality: MARKHAM TOWN (MARKHAM TWP) Northing Nad83: 4859146 Utm Reliability: unknown UTM Construction Date: 26-APR-01 Well Depth: 105 ft	

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Pump Rate: Flow Rate: Specific Capacity: Construction Method: Air Precussion Elevation (m): 188.94 Depth to Bedrock: Water Type:				Static Water Level: Clear/Cloudy: Final Well Status: Dewatering Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Overburden Casing Material: FRESH	
--- Details ---					
Thickness: GREY				Original Depth: 105 ft	
Material Colour: CLAY				Material: 11 ft	
+					
Thickness: BROWN				Original Depth: 94 ft	
Material Colour: SAND				Material: 21 ft	
+					
Thickness: BROWN				Original Depth: 67 ft	
Material Colour: SAND, SILTY				Material: 26 ft	
+					
Thickness: BROWN				Original Depth: 23 ft	
Material Colour: SAND, STONES				Material: 9 ft	
+					
Thickness: GREY				Original Depth: 73 ft	
Material Colour: CLAY				Material: 6 ft	
+					
Thickness: BROWN				Original Depth: 14 ft	
Material Colour: CLAY, SANDY				Material: 14 ft	
+					
Thickness: GREY				Original Depth: 41 ft	
Material Colour: CLAY, STONES				Material: 18 ft	
15	5 of 5	WSW/98.6	181.8	lot 8 con 9 ON	WWIS
Well ID: 6926278				Lot: 008	
Concession: 09				Concession Name: CON	
County: YORK				Municipality: MARKHAM TOWN (MARKHAM TWP)	
Easting Nad83: 642999.9				Northing Nad83: 4859146	
Zone: 17				Utm Reliability: unknown UTM	
Primary Water Use:				Construction Date: 08-JAN-02	
Sec. Water Use:				Well Depth:	
Pump Rate:				Static Water Level:	
Flow Rate:				Clear/Cloudy:	
Specific Capacity:				Final Well Status: Dewatering	
Construction Method: Not Known				Flowing (y/n):	
Elevation (m): 188.94				Elevation Reliability:	
Depth to Bedrock:				Overburden/Bedrock: No formation data	
Water Type:				Casing Material:	
16	1 of 1	WSW/21.7	182.4	9th Line / 14th Ave Markham ON	EHS
Order No.: 19990706004					
Report Date: 7/8/99					
Report Type: Custom Report					

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB	
Search Radius (km): Addit. Info Ordered:		2.00				
17	1 of 1	WSW/90.9	181.8	9th Line & 14th Ave Markham ON	EHS	
Order No.:		20000215003				
Report Date:		2/22/00				
Report Type:		Complete Report				
Search Radius (km):		2.00				
Addit. Info Ordered:						
18	1 of 1	NE/48.0	191.1	ON	BORE	
Borehole ID:		867463		Type:	Borehole	
Use:		Geotechnical/Geological Investigation		Status:	Decommissioned	
Drill Method:		Solid stem auger		UTM Zone:	17	
Easting:		646308		Northing:	4861996	
Location Accuracy:				Orig. Ground Elev m:	190	
Elev. Reliability Note:				DEM Ground Elev m:	188	
Total Depth m:		5.2		Primary Name:		
Township:		PICKERING		Concession:	CON 5	
Lot:		0		Municipality:		
Completion Date:		26-NOV-1998		Static Water Level:	-999.9	
Primary Water Use:				Sec. Water Use:		
--- Details ---						
Stratum ID:		7020113		Top Depth(m):	0.0	
Bottom Depth(m):		0.1		Stratum Desc:	Topsoil	
+						
Stratum ID:		7020114		Top Depth(m):	0.1	
Bottom Depth(m):		5.2		Stratum Desc:	Clayey silt, some sand, trace gravel, trace organics, firm to very stiff, brown, moist (Glacial till)	
19	1 of 1	NE/45.6	190.7	ON	BORE	
Borehole ID:		867464		Type:	Borehole	
Use:		Geotechnical/Geological Investigation		Status:	Decommissioned	
Drill Method:		Solid stem auger		UTM Zone:	17	
Easting:		646317		Northing:	4862001	
Location Accuracy:				Orig. Ground Elev m:	188	
Elev. Reliability Note:				DEM Ground Elev m:	187	
Total Depth m:		14.6		Primary Name:		
Township:		PICKERING		Concession:	CON 5	
Lot:		0		Municipality:		
Completion Date:		26-NOV-1998		Static Water Level:	-999.9	
Primary Water Use:				Sec. Water Use:		
--- Details ---						
Stratum ID:		7020115		Top Depth(m):	0.0	
Bottom Depth(m):		0.1		Stratum Desc:	Topsoil	
+						

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Stratum ID:	7020116			Top Depth(m):	0.1
Bottom Depth(m):	2.3			Stratum Desc:	Silty sand, trace gravel, compact, brown, moist
+					
Stratum ID:	7020117			Top Depth(m):	2.3
Bottom Depth(m):	4.5			Stratum Desc:	Clayey silt, some sand, trace gravel, very stiff, brown to grey, moist (glacial till)
+					
Stratum ID:	7020118			Top Depth(m):	4.5
Bottom Depth(m):	7.7			Stratum Desc:	Sandy silt, trace gravel, trace clay, wet sand seams, compact, grey, moist (Glacial till)
+					
Stratum ID:	7020119			Top Depth(m):	7.7
Bottom Depth(m):	8.5			Stratum Desc:	Clayey silt, sand seams, stiff, grey, wet
+					
Stratum ID:	7020120			Top Depth(m):	8.5
Bottom Depth(m):	14.6			Stratum Desc:	Silty sand, trace to some gravel, trace clay, compact to very dense, grey, wet to moist (glacial till)

20**1 of 1****NE/87.0****190.6****ON****BORE**

Borehole ID: 867438
 Use: Geotechnical/Geological Investigation
 Drill Method: Solid stem auger
 Easting: 646284
 Location Accuracy:
 Elev. Reliability Note:
 Total Depth m: 5.2
 Township: PICKERING
 Lot: 0
 Completion Date: 26-NOV-1998
 Primary Water Use:

Type: Borehole
 Status: Decommissioned
 UTM Zone: 17
 Northing: 4862027
 Orig. Ground Elev m: 187
 DEM Ground Elev m: 186
 Primary Name:
 Concession: CON 5
 Municipality:
 Static Water Level: -999.9
 Sec. Water Use:

--- Details ---

Stratum ID: 7019977
 Bottom Depth(m): 0.2

Top Depth(m): 0.0
 Stratum Desc: Topsoil

+
 Stratum ID: 7019978
 Bottom Depth(m): 2.2

Top Depth(m): 0.2
 Stratum Desc: Sandy silt, trace clay and gravel, trace organics, loose, brown, moist

+
 Stratum ID: 7019979
 Bottom Depth(m): 5.2

Top Depth(m): 2.2
 Stratum Desc: Clayey silt, some sand, trace gravel, stiff to hard, mottled brown to grey, moist, (Glacial till)

21**1 of 1****NE/84.5****189.8****ON****BORE**

Borehole ID: 867439
 Use: Geotechnical/Geological Investigation
 Drill Method: Solid stem auger

Type: Borehole
 Status: Decommissioned
 UTM Zone: 17

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Easting:	646303			Northing:	4862041
Location Accuracy:				Orig. Ground Elev m:	182
Elev. Reliability Note:				DEM Ground Elev m:	182
Total Depth m:	16.4			Primary Name:	
Township:	PICKERING			Concession:	CON 5
Lot:	0			Municipality:	
Completion Date:	25-NOV-1998			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7019981			Top Depth(m):	0.2
Bottom Depth(m):	1.5			Stratum Desc:	Sandy silt, trace gravel, loose, brown, moist
+					
Stratum ID:	7019982			Top Depth(m):	1.0
Bottom Depth(m):	2.7			Stratum Desc:	Clayey silt, some sand, trace gravel, stiff, mottled brown, moist (glacial till)
+					
Stratum ID:	7019983			Top Depth(m):	2.7
Bottom Depth(m):	5.2			Stratum Desc:	Silty sand, some gravel, trace clay, dense to very dense, brown, moist (Glacial till)
+					
Stratum ID:	7019984			Top Depth(m):	5.2
Bottom Depth(m):	8.0			Stratum Desc:	Sand and gravel, trace silt, dense, grey, moist
+					
Stratum ID:	7019985			Top Depth(m):	8.0
Bottom Depth(m):	15.8			Stratum Desc:	Silty sand, trace to some gravel, trace clay, very dense, grey, moist (Glacial till)
+					
Stratum ID:	7019986			Top Depth(m):	15.8
Bottom Depth(m):	16.4			Stratum Desc:	Sandy silt, trace gravel and clay, very dense, grey, moist (Glacial till)
+					
Stratum ID:	7019980			Top Depth(m):	0.0
Bottom Depth(m):	0.2			Stratum Desc:	Topsoil

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NE/34.6

188.8

ON

BORE

Borehole ID:	867466	Type:	Borehole
Use:	Geotechnical/Geological Investigation	Status:	Decommissioned
Drill Method:	Solid stem auger	UTM Zone:	17
Easting:	646362	Northing:	4862021
Location Accuracy:		Orig. Ground Elev m:	177
Elev. Reliability Note:		DEM Ground Elev m:	178
Total Depth m:	15.7	Primary Name:	
Township:	PICKERING	Concession:	CON 5
Lot:	0	Municipality:	
Completion Date:	05-DEC-1998	Static Water Level:	-999.9
Primary Water Use:		Sec. Water Use:	

--- Details ---

Stratum ID:	7020125	Top Depth(m):	0.0
-------------	---------	---------------	-----

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Bottom Depth(m):	0.3			Stratum Desc:	Topsoil
+					
Stratum ID:	7020126			Top Depth(m):	0.3
Bottom Depth(m):	1.6			Stratum Desc:	Silty sand, trace to some gravel, loose to compact, brown, moist
+					
Stratum ID:	7020127			Top Depth(m):	1.6
Bottom Depth(m):	15.7			Stratum Desc:	Silty sand, trace gravel, sand and gravel inferred cobble and boulders, dense to very dense, grey, moist (glacial till)

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NE/47.3

188.7

BORE

ON

Borehole ID: 867465
 Use: Geotechnical/Geological Investigation
 Drill Method: Solid stem auger
 Easting: 646356
 Location Accuracy:
 Elev. Reliability Note:
 Total Depth m: 10.8
 Township: PICKERING
 Lot: 0
 Completion Date: 04-DEC-1988
 Primary Water Use:

Type: Borehole
 Status: Decommissioned
 UTM Zone: 17
 Northing: 4862032
 Orig. Ground Elev m: 177
 DEM Ground Elev m: 177
 Primary Name:
 Concession: CON 5
 Municipality:
 Static Water Level: -999.9
 Sec. Water Use:

--- Details ---

Stratum ID: 7020121

Bottom Depth(m): 0.3

+

Stratum ID: 7020122

Bottom Depth(m): 0.6

+

Stratum ID: 7020123

Bottom Depth(m): 2.3

+

Stratum ID: 7020124

Bottom Depth(m): 10.8

Top Depth(m): 0.0

Stratum Desc: Topsoil

Top Depth(m): 0.3

Stratum Desc: Organic silt, trace clay, loose, brown, moist

Top Depth(m): 0.6

Stratum Desc: Silty sand, trace to some gravel, compact to dense, brown, wet

Top Depth(m): 2.3

Stratum Desc: Silty sand, trace to some gravel, trace clay, very dense, grey, moist (Glacial till)

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NE/73.9

188.5

BORE

ON

Borehole ID: 867440
 Use: Geotechnical/Geological Investigation
 Drill Method: Solid stem auger
 Easting: 646341
 Location Accuracy:
 Elev. Reliability Note:
 Total Depth m: 16.7
 Township: PICKERING
 Lot: 0
 Completion Date: 02-DEC-1998
 Primary Water Use:

Type: Borehole
 Status: Decommissioned
 UTM Zone: 17
 Northing: 4862055
 Orig. Ground Elev m: 178
 DEM Ground Elev m: 176
 Primary Name:
 Concession: CON 5
 Municipality:
 Static Water Level: -999.9
 Sec. Water Use:

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
--- Details ---					
Stratum ID:	7019987			Top Depth(m):	0.0
Bottom Depth(m):	0.2			Stratum Desc:	Topsoil
+					
Stratum ID:	7019988			Top Depth(m):	0.2
Bottom Depth(m):	1.1			Stratum Desc:	Silty sand, trace to some gravel, trace rootlets, very loose to compact, brown, moist
+					
Stratum ID:	7019989			Top Depth(m):	1.1
Bottom Depth(m):	10.7			Stratum Desc:	Silty sand, trace clay, trace gravel, fine sand layers, gravel layers, dense to very dense, grey, moist, (Glacial till)
+					
Stratum ID:	7019990			Top Depth(m):	10.7
Bottom Depth(m):	11.4			Stratum Desc:	Sand and gravel, compact, grey, wet
+					
Stratum ID:	7019991			Top Depth(m):	11.4
Bottom Depth(m):	14.8			Stratum Desc:	Sand and silt, trace gravel, trace clay, very dense, grey, moist, (glacial till)
+					
Stratum ID:	7019992			Top Depth(m):	14.8
Bottom Depth(m):	16.7			Stratum Desc:	Clayey silt, some sand, trace gravel, hard, grey, moist (Glacial till)

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1 of 1

NE/83.6

188.4

ON

BORE

Borehole ID: 867441
 Use: Geotechnical/Geological Investigation
 Drill Method: Solid stem auger
 Easting: 646334
 Location Accuracy:
 Elev. Reliability Note:
 Total Depth m: 11.2
 Township: PICKERING
 Lot: 0
 Completion Date: 30-NOV-1998
 Primary Water Use:

Type: Borehole
 Status: Decommissioned
 UTM Zone: 17
 Northing: 4862063
 Orig. Ground Elev m: 176
 DEM Ground Elev m: 176
 Primary Name:
 Concession: CON 5
 Municipality:
 Static Water Level: -999.9
 Sec. Water Use:

--- Details ---

Stratum ID:	7019993			Top Depth(m):	0.0
Bottom Depth(m):	0.2			Stratum Desc:	Topsoil
+					
Stratum ID:	7019994			Top Depth(m):	0.2
Bottom Depth(m):	1.8			Stratum Desc:	Sandy silt, trace gravel, very loose to compact, brown, moist
+					
Stratum ID:	7019995			Top Depth(m):	1.8
Bottom Depth(m):	5.8			Stratum Desc:	Silty sand, trace gravel, wet sand and gravel layers, dense to very dense, grey, moist, (Glacial till)
+					
Stratum ID:	7019996			Top Depth(m):	5.8

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Bottom Depth(m):	11.2			Stratum Desc:	Sandy silt, trace to some gravel, trace clay, very dense, grey, moist (Glacial till)

26 **1 of 1** **NE/41.8** **187.7** **ON** **BORE**

Borehole ID:	867468	Type:	Borehole
Use:	Geotechnical/Geological Investigation	Status:	Decommissioned
Drill Method:	Solid stem auger	UTM Zone:	17
Easting:	646396	Northing:	4862041
Location Accuracy:		Orig. Ground Elev m:	177
Elev. Reliability Note:		DEM Ground Elev m:	176
Total Depth m:	9.4	Primary Name:	
Township:	PICKERING	Concession:	CON 5
Lot:	0	Municipality:	
Completion Date:	26-NOV-1998	Static Water Level:	-999.9
Primary Water Use:		Sec. Water Use:	

--- Details ---

Stratum ID:	7020132	Top Depth(m):	0.0
Bottom Depth(m):	0.2	Stratum Desc:	Topsoil
+			
Stratum ID:	7020134	Top Depth(m):	1.5
Bottom Depth(m):	2.2	Stratum Desc:	Sand and gravel, trace silt, compact, grey, wet
+			
Stratum ID:	7020135	Top Depth(m):	2.2
Bottom Depth(m):	3.7	Stratum Desc:	Silty sand, trace to some gravel, dense to very dense, grey, wet (Glacial till)
+			
Stratum ID:	7020136	Top Depth(m):	3.7
Bottom Depth(m):	6.3	Stratum Desc:	Silty sand, trace to some gravel, compact, grey, wet (glacial till)
+			
Stratum ID:	7020137	Top Depth(m):	6.3
Bottom Depth(m):	9.4	Stratum Desc:	Silty sand, trace clay and gravel, very dense, grey, wet (Glacial till)
+			
Stratum ID:	7020133	Top Depth(m):	0.2
Bottom Depth(m):	1.5	Stratum Desc:	Silty sand, topsoil, trace gravel, very loose, brown, moist

27 **1 of 1** **NE/51.1** **187.6** **ON** **BORE**

Borehole ID:	867467	Type:	Borehole
Use:	Geotechnical/Geological Investigation	Status:	Decommissioned
Drill Method:	Solid stem auger	UTM Zone:	17
Easting:	646394	Northing:	4862050
Location Accuracy:		Orig. Ground Elev m:	177
Elev. Reliability Note:		DEM Ground Elev m:	176
Total Depth m:	15.5	Primary Name:	
Township:	PICKERING	Concession:	CON 5
Lot:	0	Municipality:	
Completion Date:	25-NOV-1998	Static Water Level:	-999.9
Primary Water Use:		Sec. Water Use:	

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
--- Details ---					
Stratum ID:	7020130			Top Depth(m):	3.0
Bottom Depth(m):	13.1			Stratum Desc:	Silty sand, trace to some gravel, sand seams, inferred cobbles and boulders, dense to very dense, grey, wet to moist (Glacial till)
+					
Stratum ID:	7020131			Top Depth(m):	13.1
Bottom Depth(m):	15.5			Stratum Desc:	Sandy silt, trace clay, trace gravel, dense to very dense, grey, wet (glacial till)
+					
Stratum ID:	7020128			Top Depth(m):	0.0
Bottom Depth(m):	0.2			Stratum Desc:	Topsoil
+					
Stratum ID:	7020129			Top Depth(m):	0.2
Bottom Depth(m):	3.0			Stratum Desc:	Silty sand, trace to some gravel, trace organics, very loose to compact, brown to grey, moist to wet

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NE/78.2

187.3

ON

BORE

Borehole ID: 867443
 Use: Geotechnical/Geological Investigation
 Drill Method: Solid stem auger
 Easting: 646382
 Location Accuracy:
 Elev. Reliability Note:
 Total Depth m: 15.9
 Township: PICKERING
 Lot: 0
 Completion Date: 07-DEC-1998
 Primary Water Use:

Type: Borehole
 Status: Decommissioned
 UTM Zone: 17
 Northing: 4862075
 Orig. Ground Elev m: 176
 DEM Ground Elev m: 177
 Primary Name:
 Concession: CON 5
 Municipality:
 Static Water Level: -999.9
 Sec. Water Use:

--- Details ---

Stratum ID:	7020006			Top Depth(m):	0.0
Bottom Depth(m):	0.2			Stratum Desc:	Topsoil
+					
Stratum ID:	7020007			Top Depth(m):	0.2
Bottom Depth(m):	1.5			Stratum Desc:	Silty sand, some gravel, trace clay, some wood pieces, very loose, brown, moist
+					
Stratum ID:	7020008			Top Depth(m):	1.5
Bottom Depth(m):	2.2			Stratum Desc:	Sand and gravel, occasional inferred cobbles, compact, grey, wet
+					
Stratum ID:	7020009			Top Depth(m):	2.2
Bottom Depth(m):	3.0			Stratum Desc:	Sandy silt, some gravel, dense, grey, wet
+					
Stratum ID:	7020010			Top Depth(m):	3.0
Bottom Depth(m):	3.8			Stratum Desc:	Silty sand, some gravel, dense, grey, wet (Glacial till)

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
+	Stratum ID: Bottom Depth(m):	7020011 5.2		Top Depth(m): Stratum Desc:	3.0 Sand and gravel, some silt, compact, grey, wet
+	Stratum ID: Bottom Depth(m):	7020012 6.0		Top Depth(m): Stratum Desc:	5.2 Silty sand, some gravel, dense, grey, wet (Glacial till)
+	Stratum ID: Bottom Depth(m):	7020013 7.0		Top Depth(m): Stratum Desc:	6.0 Silty sand, trace clay, trace gravel, fine sand seam, compact, grey, wet
+	Stratum ID: Bottom Depth(m):	7020014 15.9		Top Depth(m): Stratum Desc:	7.0 Silty sand, some gravel, very dense becoming compact, grey, wet (Glacial till)

29	1 of 1	NE/81.3	187.3	ON	BORE
Borehole ID:	867442			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Solid stem auger			UTM Zone:	17
Easting:	646380			Northing:	4862078
Location Accuracy:				Orig. Ground Elev m:	176
Elev. Reliability Note:				DEM Ground Elev m:	177
Total Depth m:	9.8			Primary Name:	
Township:	PICKERING			Concession:	CON 5
Lot:	0			Municipality:	
Completion Date:	27-NOV-1998			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7019997			Top Depth(m):	0.0
Bottom Depth(m):	0.2			Stratum Desc:	Topsoil
+	Stratum ID:	7019998		Top Depth(m):	0.2
Bottom Depth(m):	1.5			Stratum Desc:	Silty sand, some gravel, trace clay, some wood pieces, very loose, brown, moist
+	Stratum ID:	7019999		Top Depth(m):	1.5
Bottom Depth(m):	2.2			Stratum Desc:	Sand and gravel, occasional inferred cobbles, compact, grey, wet
+	Stratum ID:	7020000		Top Depth(m):	2.2
Bottom Depth(m):	3.0			Stratum Desc:	Sandy silt, some gravel, dense, grey, wet
+	Stratum ID:	7020001		Top Depth(m):	3.0
Bottom Depth(m):	3.8			Stratum Desc:	Silty sand, some gravel, dense, grey, wet (Glacial till)
+	Stratum ID:	7020002		Top Depth(m):	3.8

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Bottom Depth(m):	5.2			Stratum Desc:	Sand and gravel, some silt, compact, grey, wet
+					
Stratum ID:	7020003			Top Depth(m):	5.2
Bottom Depth(m):	6.0			Stratum Desc:	Silty sand, some gravel, dense, grey, wet (Glacial till)
+					
Stratum ID:	7020004			Top Depth(m):	6.0
Bottom Depth(m):	7.0			Stratum Desc:	Silty sand, trace clay, trace gravel, fine sand seam, compact, grey, wet
+					
Stratum ID:	7020005			Top Depth(m):	7.0
Bottom Depth(m):	9.8			Stratum Desc:	Silty sand, some gravel, very dense becoming compact, grey, wet (Glacial till)

<u>30</u>	1 of 1	NE/92.9	187.2	ON	BORE
Borehole ID:	867444			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Solid stem auger			UTM Zone:	17
Easting:	646371			Northing:	4862087
Location Accuracy:				Orig. Ground Elev m:	177
Elev. Reliability Note:				DEM Ground Elev m:	177
Total Depth m:	15.9			Primary Name:	
Township:	PICKERING			Concession:	CON 5
Lot:	0			Municipality:	
Completion Date:	28-NOV-1998			Static Water Level:	9.3
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7020020			Top Depth(m):	6.0
Bottom Depth(m):	13.0			Stratum Desc:	Silty sand, some gravel, trace to some clay, occasional inferred cobbles, loose to compact, grey, moist, (Glacial till). A layer of silty sand and gravel, loose, grey, wet exists between elev. 169.52m and 168.91m depth.
+					
Stratum ID:	7020021			Top Depth(m):	13.0
Bottom Depth(m):	14.8			Stratum Desc:	Silty sand, trace clay, compact, grey, wet
+					
Stratum ID:	7020022			Top Depth(m):	14.8
Bottom Depth(m):	15.9			Stratum Desc:	Silty sand, some gravel, trace clay, compact, grey, moist (Glacial till)
+					
Stratum ID:	7020015			Top Depth(m):	0.0
Bottom Depth(m):	0.6			Stratum Desc:	Topsoil
+					
Stratum ID:	7020016			Top Depth(m):	0.6
Bottom Depth(m):	1.5			Stratum Desc:	Silty sand, trace clay and gravel, loose, brown, moist
+					
Stratum ID:	7020017			Top Depth(m):	1.5

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Bottom Depth(m):	2.2			Stratum Desc:	Sand and gravel, occasional inferred cobbles, compact, grey, wet
+					
Stratum ID:	7020018			Top Depth(m):	2.2
Bottom Depth(m):	3.8			Stratum Desc:	Silty sand, trace to some gravel, trace clay, loose, grey, wet
+					
Stratum ID:	7020019			Top Depth(m):	3.8
Bottom Depth(m):	6.0			Stratum Desc:	Sandy silt, trace gravel, trace clay, silt layer, compact to dense, grey, wet (Glacial till)

<u>31</u>	1 of 1	NE/46.7	187.2	ON	BORE
Borehole ID:	867470			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Hollow stem auger			UTM Zone:	17
Easting:	646425			Northing:	4862057
Location Accuracy:				Orig. Ground Elev m:	176
Elev. Reliability Note:				DEM Ground Elev m:	177
Total Depth m:	15.4			Primary Name:	
Township:	PICKERING			Concession:	CON 5
Lot:	0			Municipality:	
Completion Date:	24-NOV-1998			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7020143			Top Depth(m):	0.0
Bottom Depth(m):	0.8			Stratum Desc:	Sandy topsoil
+					
Stratum ID:	7020144			Top Depth(m):	0.8
Bottom Depth(m):	1.5			Stratum Desc:	Silty sand, some gravel, loose, brown, wet
+					
Stratum ID:	7020145			Top Depth(m):	1.5
Bottom Depth(m):	6.1			Stratum Desc:	Silty sand, trace gravel, coarse sand layers, silt layers, compact, grey, wet (glacial till)
+					
Stratum ID:	7020146			Top Depth(m):	6.1
Bottom Depth(m):	15.4			Stratum Desc:	Sandy silt, trace gravel, trace clay, inferred cobbles, very dense, grey, moist (Glacial till)

<u>32</u>	1 of 1	NE/55.8	187.1	ON	BORE
Borehole ID:	867469			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Hollow stem auger			UTM Zone:	17
Easting:	646419			Northing:	4862065
Location Accuracy:				Orig. Ground Elev m:	176
Elev. Reliability Note:				DEM Ground Elev m:	177
Total Depth m:	9.3			Primary Name:	
Township:	PICKERING			Concession:	CON 5
Lot:	0			Municipality:	

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Completion Date:	26-NOV-1998			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7020138			Top Depth(m):	0.0
Bottom Depth(m):	0.6			Stratum Desc:	Organic silt, some sand, trace gravel, trace rootlets, very loose, brown, moist
+					
Stratum ID:	7020139			Top Depth(m):	0.6
Bottom Depth(m):	1.5			Stratum Desc:	Silty sand, some gravel, some organics, compact, brown, wet
+					
Stratum ID:	7020140			Top Depth(m):	1.5
Bottom Depth(m):	5.3			Stratum Desc:	Silty sand, trace to some gravel, sand seams, inferred cobbles, dense to very dense, grey, wet (glacial till)
+					
Stratum ID:	7020141			Top Depth(m):	5.3
Bottom Depth(m):	7.3			Stratum Desc:	Sand and gravel, trace to some silt, very dense, grey, wet
+					
Stratum ID:	7020142			Top Depth(m):	7.3
Bottom Depth(m):	9.3			Stratum Desc:	Silty sand, trace gravel, inferred cobbles, very dense, grey, moist (glacial till)

33

1 of 1

NE/94.9

186.8

ON

BORE

Borehole ID: 867446
 Use: Geotechnical/Geological Investigation
 Drill Method: Solid stem auger
 Easting: 646388
 Location Accuracy:
 Elev. Reliability Note:
 Total Depth m: 8.4
 Township: PICKERING
 Lot: 0
 Completion Date: 27-NOV-1998
 Primary Water Use:

Type: Borehole
 Status: Decommissioned
 UTM Zone: 17
 Northing: 4862095
 Orig. Ground Elev m: 176
 DEM Ground Elev m: 178
 Primary Name:
 Concession: CON 5
 Municipality:
 Static Water Level: -999.9
 Sec. Water Use:

--- Details ---

Stratum ID: 7020033

Bottom Depth(m): 0.6

Top Depth(m): 0.0

Stratum Desc: Organic silt, some sand, very loose, brown, moist

+

Stratum ID: 7020034

Bottom Depth(m): 2.2

Top Depth(m): 0.6

Stratum Desc: Silty sand, trace gravel, loose to compact, grey, wet

+

Stratum ID: 7020035

Bottom Depth(m): 5.8

Top Depth(m): 2.2

Stratum Desc: Silty sand, some gravel, trace clay, occasional inferred cobbles, dense to very dense, grey, moist to wet (glacial till)

+

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Stratum ID:	7020036			Top Depth(m):	5.8
Bottom Depth(m):	7.2			Stratum Desc:	Sand, trace silt and gravel, dense, grey, wet
+					
Stratum ID:	7020037			Top Depth(m):	7.2
Bottom Depth(m):	8.4			Stratum Desc:	Silty sand, some gravel, trace clay, occasional cobbles, very dense, grey, moist to wet (Glacial till)

34

1 of 1

NE/86.0

186.8

ON

BORE

Borehole ID: 867445
 Use: Geotechnical/Geological Investigation
 Drill Method: Solid stem auger
 Easting: 646401
 Location Accuracy:
 Elev. Reliability Note:
 Total Depth m: 16.2
 Township: PICKERING
 Lot: 0
 Completion Date: 27-NOV-1998
 Primary Water Use:

Type: Borehole
 Status: Decommissioned
 UTM Zone: 17
 Northing: 4862090
 Orig. Ground Elev m: 178
 DEM Ground Elev m: 178
 Primary Name:
 Concession: CON 5
 Municipality:
 Static Water Level: -999.9
 Sec. Water Use:

--- Details ---

Stratum ID:	7020023			Top Depth(m):	0.0
Bottom Depth(m):	0.6			Stratum Desc:	Topsoil
+					
Stratum ID:	7020024			Top Depth(m):	0.6
Bottom Depth(m):	1.5			Stratum Desc:	Organic silt, some rootlets, some decayed wood pieces
+					
Stratum ID:	7020025			Top Depth(m):	1.5
Bottom Depth(m):	2.1			Stratum Desc:	Silty sand, trace clay and gravel, compact, grey, moist (Glacial till)
+					
Stratum ID:	7020026			Top Depth(m):	2.1
Bottom Depth(m):	3.0			Stratum Desc:	Sand and gravel, some silt, compact, grey, wet
+					
Stratum ID:	7020027			Top Depth(m):	3.0
Bottom Depth(m):	4.5			Stratum Desc:	Silty sand, stratified, some gravel and silt, occasional gravel seams, compact to dense, grey, wet (Glacial till)
+					
Stratum ID:	7020028			Top Depth(m):	4.5
Bottom Depth(m):	5.2			Stratum Desc:	Sand and gravel, trace silt, dense, grey, wet
+					
Stratum ID:	7020029			Top Depth(m):	5.2
Bottom Depth(m):	7.0			Stratum Desc:	Sand, trace silt and gravel, very dense, grey, wet
+					
Stratum ID:	7020030			Top Depth(m):	7.0
Bottom Depth(m):	13.1			Stratum Desc:	Silty sand, trace to some gravel, trace clay, very dense, grey, moist to wet

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
					(Glacial till)
+					
Stratum ID:	7020031			Top Depth(m):	13.1
Bottom Depth(m):	14.8			Stratum Desc:	Silty sand, some gravel, trace clay, very dense, grey, moist (Glacial till)
+					
Stratum ID:	7020032			Top Depth(m):	14.8
Bottom Depth(m):	16.2			Stratum Desc:	Silty sand, some gravel, trace clay, very dense, grey, moist (Glacial till)

35 **1 of 1** **NE/50.6** **186.3** **ON** **BORE**

Borehole ID:	867472	Type:	Borehole
Use:	Geotechnical/Geological Investigation	Status:	Decommissioned
Drill Method:	Solid stem auger	UTM Zone:	17
Easting:	646450	Northing:	4862071
Location Accuracy:		Orig. Ground Elev m:	177
Elev. Reliability Note:		DEM Ground Elev m:	179
Total Depth m:	19.9	Primary Name:	
Township:	PICKERING	Concession:	CON 5
Lot:	0	Municipality:	
Completion Date:	24-NOV-1998	Static Water Level:	-999.9
Primary Water Use:		Sec. Water Use:	

--- Details ---

Stratum ID:	7020154	Top Depth(m):	0.0
Bottom Depth(m):	0.2	Stratum Desc:	Topsoil
+			
Stratum ID:	7020155	Top Depth(m):	0.2
Bottom Depth(m):	2.2	Stratum Desc:	Silty sand topsoil, some gravel, trace clay, occasional inferred cobble, compact, brown, moist
+			
Stratum ID:	7020156	Top Depth(m):	2.2
Bottom Depth(m):	3.0	Stratum Desc:	Silty sand, trace to some gravel, inferred cobbles, dense, brown, wet
+			
Stratum ID:	7020157	Top Depth(m):	3.0
Bottom Depth(m):	3.8	Stratum Desc:	Sandy silt, trace gravel, trace clay, very dense, brown, moist
+			
Stratum ID:	7020158	Top Depth(m):	3.8
Bottom Depth(m):	6.5	Stratum Desc:	Sand and gravel to sand, some gravel, trace silt, some fine sand interlayers, very dense, grey, wet
+			
Stratum ID:	7020159	Top Depth(m):	6.5
Bottom Depth(m):	12.2	Stratum Desc:	Silty sand, trace clay and gravel, very dense, grey, moist to wet (glacial till)
+			
Stratum ID:	7020160	Top Depth(m):	12.2
Bottom Depth(m):	13.7	Stratum Desc:	Silty fine sand, dense, grey, wet
+			
Stratum ID:	7020161	Top Depth(m):	13.7

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Bottom Depth(m):	15.5			Stratum Desc:	Silty sand, trace clay and gravel, very dense, moist to wet
+					
Stratum ID:	7020162			Top Depth(m):	15.5
Bottom Depth(m):	17.7			Stratum Desc:	Silt, trace sand, very dense, grey, wet
+					
Stratum ID:	7020163			Top Depth(m):	17.7
Bottom Depth(m):	19.9			Stratum Desc:	Sandy silt, trace gravel, trace clay, very dense, grey, wet (Glacial till)

<u>36</u>	1 of 1	NE/60.6	186.3	ON	BORE
Borehole ID:	867471			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Solid stem auger			UTM Zone:	17
Easting:	646445			Northing:	4862079
Location Accuracy:				Orig. Ground Elev m:	178
Elev. Reliability Note:				DEM Ground Elev m:	179
Total Depth m:	15.5			Primary Name:	
Township:	PICKERING			Concession:	CON 5
Lot:	0			Municipality:	
Completion Date:	19-NOV-1998			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7020147			Top Depth(m):	0.0
Bottom Depth(m):	0.2			Stratum Desc:	Topsoil
+					
Stratum ID:	7020148			Top Depth(m):	0.2
Bottom Depth(m):	0.6			Stratum Desc:	Sand, some gravel, trace silt, loose, brown, moist
+					
Stratum ID:	7020149			Top Depth(m):	0.6
Bottom Depth(m):	2.7			Stratum Desc:	Silty sand, trace gravel, trace clay, loose to compact, brown, wet
+					
Stratum ID:	7020150			Top Depth(m):	2.7
Bottom Depth(m):	3.0			Stratum Desc:	Silt, compact, grey, wet
+					
Stratum ID:	7020151			Top Depth(m):	3.0
Bottom Depth(m):	3.8			Stratum Desc:	Silty sand, trace gravel, compact, grey, wet (Glacial till)
+					
Stratum ID:	7020152			Top Depth(m):	3.8
Bottom Depth(m):	9.4			Stratum Desc:	Sand and gravel, trace silt, dense to very dense, grey, wet
+					
Stratum ID:	7020153			Top Depth(m):	9.4
Bottom Depth(m):	15.5			Stratum Desc:	Silty sand, trace gravel, dense to very dense, grey, moist (glacial till)

<u>37</u>	1 of 1	NE/100.2	185.8	ON	BORE
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Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Borehole ID:	867447			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Solid stem auger			UTM Zone:	17
Easting:	646424			Northing:	4862114
Location Accuracy:				Orig. Ground Elev m:	180
Elev. Reliability Note:				DEM Ground Elev m:	181
Total Depth m:	15.6			Primary Name:	
Township:	PICKERING			Concession:	CON 5
Lot:	0			Municipality:	
Completion Date:	18-NOV-1998			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7020038			Top Depth(m):	0.0
Bottom Depth(m):	0.6			Stratum Desc:	Topsoil
+					
Stratum ID:	7020039			Top Depth(m):	0.6
Bottom Depth(m):	1.4			Stratum Desc:	Clayey silt, some sand, trace gravel, very stiff, brown, moist (Glacial till)
+					
Stratum ID:	7020040			Top Depth(m):	1.4
Bottom Depth(m):	3.8			Stratum Desc:	Silty sand, trace clay and gravel, compact becoming loose, grey, wet
+					
Stratum ID:	7020041			Top Depth(m):	3.8
Bottom Depth(m):	4.5			Stratum Desc:	Clayey silt, trace sand and gravel, very stiff, grey, moist to wet (glacial till)
+					
Stratum ID:	7020042			Top Depth(m):	4.5
Bottom Depth(m):	7.2			Stratum Desc:	Sandy silt, trace gravel, trace clay, loose to dense, grey, wet
+					
Stratum ID:	7020043			Top Depth(m):	7.2
Bottom Depth(m):	15.6			Stratum Desc:	Silty sand, trace gravel, very dense, grey, moist to wet (Glacial till)

38

1 of 1

NE/59.3

185.6

ON

BORE

Borehole ID:	867473			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Solid stem auger			UTM Zone:	17
Easting:	646464			Northing:	4862085
Location Accuracy:				Orig. Ground Elev m:	179
Elev. Reliability Note:				DEM Ground Elev m:	180
Total Depth m:	5.2			Primary Name:	
Township:	PICKERING			Concession:	CON 5
Lot:	0			Municipality:	
Completion Date:	19-NOV-1998			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	

--- Details ---

Stratum ID:	7020164			Top Depth(m):	0.0
Bottom Depth(m):	0.6			Stratum Desc:	Topsoil
+					
Stratum ID:	7020165			Top Depth(m):	0.6

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Bottom Depth(m):	2.3			Stratum Desc:	Medium sand, some gravel, trace silt, compact, brown, moist
+					
Stratum ID:	7020166			Top Depth(m):	2.3
Bottom Depth(m):	3.8			Stratum Desc:	Sandy silt, trace gravel, trace clay, gravel seams, loose, grey, wet (Glacial till)
+					
Stratum ID:	7020167			Top Depth(m):	3.8
Bottom Depth(m):	5.2			Stratum Desc:	Silty sand, trace gravel, trace clay, gravel seams, loose to compact, grey, wet (Glacial till)

39**1 of 1****NE/96.1****185.2****ON****BORE**

Borehole ID: 867448
 Use: Geotechnical/Geological Investigation
 Drill Method: Solid stem auger
 Easting: 646445
 Location Accuracy:
 Elev. Reliability Note:
 Total Depth m: 5.2
 Township: PICKERING
 Lot: 0
 Completion Date: 18-NOV-1998
 Primary Water Use:

Type: Borehole
 Status: Decommissioned
 UTM Zone: 17
 Northing: 4862117
 Orig. Ground Elev m: 180
 DEM Ground Elev m: 181
 Primary Name:
 Concession: CON 5
 Municipality:
 Static Water Level: -999.9
 Sec. Water Use:

--- Details ---

Stratum ID: 7020044
 Bottom Depth(m): 0.2

Top Depth(m): 0.0
 Stratum Desc: Topsoil

+
 Stratum ID: 7020045
 Bottom Depth(m): 1.5

Top Depth(m): 0.2
 Stratum Desc: Silty sand, trace to some gravel, loose to compact, brown, moist

+
 Stratum ID: 7020046
 Bottom Depth(m): 3.0

Top Depth(m): 1.5
 Stratum Desc: Clayey silt, some sand, trace gravel, stiff, grey, moist (Glacial till)

+
 Stratum ID: 7020047
 Bottom Depth(m): 5.2

Top Depth(m): 3.0
 Stratum Desc: Silty sand, trace gravel, occasional sand and gravel seams, dense, grey, moist (Glacial till)

40**1 of 1****NE/59.2****183.6****ON****BORE**

Borehole ID: 867474
 Use: Geotechnical/Geological Investigation
 Drill Method: Solid stem auger
 Easting: 646517
 Location Accuracy:
 Elev. Reliability Note:
 Total Depth m: 5.2
 Township: PICKERING
 Lot: 0

Type: Borehole
 Status: Decommissioned
 UTM Zone: 17
 Northing: 4862104
 Orig. Ground Elev m: 178
 DEM Ground Elev m: 179
 Primary Name:
 Concession: CON 5
 Municipality:

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Completion Date:	19-NOV-1998			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7020168			Top Depth(m):	0.0
Bottom Depth(m):	0.2			Stratum Desc:	Topsoil
+					
Stratum ID:	7020169			Top Depth(m):	0.2
Bottom Depth(m):	0.8			Stratum Desc:	Sand, some gravel, trace silt, loose, brown, moist
+					
Stratum ID:	7020170			Top Depth(m):	0.8
Bottom Depth(m):	1.3			Stratum Desc:	Sandy silt, trace gravel, trace clay, compact, brown, moist (Glacial till)
+					
Stratum ID:	7020171			Top Depth(m):	1.3
Bottom Depth(m):	5.2			Stratum Desc:	Silty sand, trace gravel, silty fine sand layers, loose to compact, grey, wet (Glacial till)
<hr/>					
41	1 of 1	NE/99.9	183.1	ON	BORE
Borehole ID:	867449			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Solid stem auger			UTM Zone:	17
Easting:	646497			Northing:	4862141
Location Accuracy:				Orig. Ground Elev m:	180
Elev. Reliability Note:				DEM Ground Elev m:	180
Total Depth m:	5.2			Primary Name:	
Township:	PICKERING			Concession:	CON 5
Lot:	0			Municipality:	
Completion Date:	18-NOV-1998			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7020048			Top Depth(m):	0.0
Bottom Depth(m):	0.2			Stratum Desc:	Topsoil
+					
Stratum ID:	7020049			Top Depth(m):	0.2
Bottom Depth(m):	1.4			Stratum Desc:	Silty sand, some gravel, trace clay, compact, brown, moist
+					
Stratum ID:	7020050			Top Depth(m):	1.4
Bottom Depth(m):	2.2			Stratum Desc:	Sand and gravel, some silt, compact, brown, wet
+					
Stratum ID:	7020051			Top Depth(m):	2.2
Bottom Depth(m):	4.5			Stratum Desc:	Clayey silt, some sand, trace gravel, compact, grey, wet (Glacial till)
+					
Stratum ID:	7020052			Top Depth(m):	4.5
Bottom Depth(m):	5.2			Stratum Desc:	Silty sand, trace gravel, compact, grey, wet

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
<u>42</u>	1 of 1	WSW/111.8	181.8	Copper Creek Drive Markham ON	EHS

Order No.: 20140107023
 Report Date: 16-JAN-14
 Report Type: Custom Report
 Search Radius (km): .25
 Addit. Info Ordered:

<u>43</u>	1 of 1	NE/60.7	183.1	ON	BORE
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Borehole ID:	867475	Type:	Borehole
Use:	Geotechnical/Geological Investigation	Status:	Decommissioned
Drill Method:	Solid stem auger	UTM Zone:	17
Easting:	646535	Northing:	4862113
Location Accuracy:		Orig. Ground Elev m:	178
Elev. Reliability Note:		DEM Ground Elev m:	179
Total Depth m:	18.8	Primary Name:	
Township:	PICKERING	Concession:	CON 5
Lot:	0	Municipality:	
Completion Date:	20-NOV-1998	Static Water Level:	-999.9
Primary Water Use:		Sec. Water Use:	

--- Details ---

Stratum ID:	7020175	Top Depth(m):	1.3
Bottom Depth(m):	3.0	Stratum Desc:	Silty sand, trace clay, trace gravel and sand seams, compact to loose, grey, wet
+			
Stratum ID:	7020176	Top Depth(m):	3.0
Bottom Depth(m):	5.3	Stratum Desc:	Silt, some sand and gravel, fine sand lenses, compact, grey, wet
+			
Stratum ID:	7020177	Top Depth(m):	5.3
Bottom Depth(m):	8.7	Stratum Desc:	Sand and gravel, trace silt, compact to very dense, grey, wet
+			
Stratum ID:	7020178	Top Depth(m):	8.7
Bottom Depth(m):	11.6	Stratum Desc:	Sand, trace silt, trace to some gravel, very dense, grey, wet
+			
Stratum ID:	7020179	Top Depth(m):	11.6
Bottom Depth(m):	18.8	Stratum Desc:	Silty fine sand, trace to some gravel, compact to very dense, grey, wet
+			
Stratum ID:	7020172	Top Depth(m):	0.0
Bottom Depth(m):	0.2	Stratum Desc:	Topsoil
+			
Stratum ID:	7020173	Top Depth(m):	0.2
Bottom Depth(m):	0.8	Stratum Desc:	Silty sand, some clay, some gravel, firm, grey, moist (Glacial till)
+			
Stratum ID:	7020174	Top Depth(m):	0.8
Bottom Depth(m):	1.3	Stratum Desc:	Clayey silt, some gravel, firm, grey, moist (glacial till)

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
44	1 of 1	NE/103.8	182.5	ON	BORE
<i>Borehole ID:</i>	867450			<i>Type:</i>	Borehole
<i>Use:</i>	Geotechnical/Geological Investigation			<i>Status:</i>	Decommissioned
<i>Drill Method:</i>	Solid stem auger			<i>UTM Zone:</i>	17
<i>Easting:</i>	646515			<i>Northing:</i>	4862151
<i>Location Accuracy:</i>				<i>Orig. Ground Elev m:</i>	180
<i>Elev. Reliability Note:</i>				<i>DEM Ground Elev m:</i>	180
<i>Total Depth m:</i>	21.6			<i>Primary Name:</i>	
<i>Township:</i>	PICKERING			<i>Concession:</i>	CON 5
<i>Lot:</i>	0			<i>Municipality:</i>	
<i>Completion Date:</i>	17-NOV-1998			<i>Static Water Level:</i>	-999.9
<i>Primary Water Use:</i>				<i>Sec. Water Use:</i>	
--- Details ---					
<i>Stratum ID:</i>	7020056			<i>Top Depth(m):</i>	5.5
<i>Bottom Depth(m):</i>	11.7			<i>Stratum Desc:</i>	Sand and gravel, trace silt, compact to very dense, grey, wet
+					
<i>Stratum ID:</i>	7020057			<i>Top Depth(m):</i>	11.7
<i>Bottom Depth(m):</i>	15.2			<i>Stratum Desc:</i>	Silty sand, trace gravel, very dense, grey, wet (Glacial till)
+					
<i>Stratum ID:</i>	7020058			<i>Top Depth(m):</i>	15.2
<i>Bottom Depth(m):</i>	21.6			<i>Stratum Desc:</i>	Silty fine sand, trace gravel, loose to very dense, grey, wet
+					
<i>Stratum ID:</i>	7020053			<i>Top Depth(m):</i>	0.0
<i>Bottom Depth(m):</i>	0.1			<i>Stratum Desc:</i>	Topsoil
+					
<i>Stratum ID:</i>	7020054			<i>Top Depth(m):</i>	0.1
<i>Bottom Depth(m):</i>	1.5			<i>Stratum Desc:</i>	Medium sand, some gravel, trace silt, loose to compact, brown, moist to wet
+					
<i>Stratum ID:</i>	7020055			<i>Top Depth(m):</i>	1.5
<i>Bottom Depth(m):</i>	5.5			<i>Stratum Desc:</i>	Sand and silt, trace gravel, trace clay, silty fine sand seams, compact, grey, wet (Glacial till)

45	1 of 1	NE/60.6	182.5	ON	BORE
<i>Borehole ID:</i>	867477			<i>Type:</i>	Borehole
<i>Use:</i>	Geotechnical/Geological Investigation			<i>Status:</i>	Decommissioned
<i>Drill Method:</i>	Solid stem auger			<i>UTM Zone:</i>	17
<i>Easting:</i>	646570			<i>Northing:</i>	4862125
<i>Location Accuracy:</i>				<i>Orig. Ground Elev m:</i>	177
<i>Elev. Reliability Note:</i>				<i>DEM Ground Elev m:</i>	178
<i>Total Depth m:</i>	11.3			<i>Primary Name:</i>	
<i>Township:</i>	PICKERING			<i>Concession:</i>	CON 5
<i>Lot:</i>	0			<i>Municipality:</i>	
<i>Completion Date:</i>	03-DEC-1998			<i>Static Water Level:</i>	-999.9
<i>Primary Water Use:</i>				<i>Sec. Water Use:</i>	

--- Details ---

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Stratum ID:	7020186			Top Depth(m):	0.0
Bottom Depth(m):	0.6			Stratum Desc:	Silty topsoil, loose, brown, moist
+					
Stratum ID:	7020187			Top Depth(m):	0.6
Bottom Depth(m):	2.3			Stratum Desc:	Clayey silt, trace sand and gravel, stiff, grey, moist to wet (Glacial till)
+					
Stratum ID:	7020188			Top Depth(m):	2.3
Bottom Depth(m):	3.0			Stratum Desc:	Sandy silt, trace gravel, trace clay, compact, grey, wet
+					
Stratum ID:	7020190			Top Depth(m):	5.3
Bottom Depth(m):	6.1			Stratum Desc:	Silt, some sand, trace clay, very dense, grey, wet
+					
Stratum ID:	7020191			Top Depth(m):	6.1
Bottom Depth(m):	11.3			Stratum Desc:	Sand and gravel, trace to some silt, very dense, grey, wet
+					
Stratum ID:	7020189			Top Depth(m):	3.0
Bottom Depth(m):	5.3			Stratum Desc:	Silty fine sand, trace gravel, compact to dense, grey, wet

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1 of 1

NE/70.1

182.4

BORE

ON

Borehole ID: 867476
 Use: Geotechnical/Geological Investigation
 Drill Method: Solid stem auger
 Easting: 646568
 Location Accuracy:
 Elev. Reliability Note:
 Total Depth m: 15.9
 Township: PICKERING
 Lot: 0
 Completion Date: 02-DEC-1998
 Primary Water Use:

Type: Borehole
 Status: Decommissioned
 UTM Zone: 17
 Northing: 4862135
 Orig. Ground Elev m: 178
 DEM Ground Elev m: 178
 Primary Name:
 Concession: CON 5
 Municipality:
 Static Water Level: -999.9
 Sec. Water Use:

--- Details ---

Stratum ID:	7020180			Top Depth(m):	0.0
Bottom Depth(m):	0.6			Stratum Desc:	Silty topsoil, loose, brown, moist
+					
Stratum ID:	7020181			Top Depth(m):	0.6
Bottom Depth(m):	3.0			Stratum Desc:	Clayey silt, some sand, trace gravel, stiff to very stiff, grey, moist to wet (Glacial till)
+					
Stratum ID:	7020182			Top Depth(m):	3.0
Bottom Depth(m):	7.8			Stratum Desc:	Interlayered sand/silty sand/silt, trace clay, trace gravel, compact to very dense, grey, wet
+					
Stratum ID:	7020183			Top Depth(m):	7.8
Bottom Depth(m):	9.1			Stratum Desc:	Silty sand, trace gravel, inferred cobbles and boulders, very dense, grey, wet

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
+					
Stratum ID:	7020184			Top Depth(m):	9.1
Bottom Depth(m):	13.9			Stratum Desc:	Sand and gravel, trace silt, very dense, grey, wet
+					
Stratum ID:	7020185			Top Depth(m):	13.9
Bottom Depth(m):	15.9			Stratum Desc:	Silty sand, trace to some gravel, very dense, grey, wet (Glacial till)
<u>47</u>	1 of 1	NE/43.6	183.4	ON	BORE
Borehole ID:	831979			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Boring			UTM Zone:	17
Easting:	646671			Northing:	4862052
Location Accuracy:				Orig. Ground Elev m:	176
Elev. Reliability Note:				DEM Ground Elev m:	176
Total Depth m:	11.1			Primary Name:	
Township:				Concession:	
Lot:				Municipality:	
Completion Date:	16-MAY-1968			Static Water Level:	.7
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	6008389			Top Depth(m):	0.0
Bottom Depth(m):	1.1			Stratum Desc:	Clayey silt with sand and a trace of organic matter, grey, firm
+					
Stratum ID:	6008390			Top Depth(m):	1.1
Bottom Depth(m):	11.1			Stratum Desc:	Sandy gravel to gravelly sand with a trace of silt and clay, grey, compact to very dense
<u>48</u>	1 of 1	NE/57.6	182.5	ON	BORE
Borehole ID:	867478			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Solid stem auger			UTM Zone:	17
Easting:	646583			Northing:	4862127
Location Accuracy:				Orig. Ground Elev m:	178
Elev. Reliability Note:				DEM Ground Elev m:	178
Total Depth m:	16.9			Primary Name:	
Township:	PICKERING			Concession:	CON 5
Lot:	0			Municipality:	
Completion Date:	03-DEC-1998			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7020192			Top Depth(m):	0.0
Bottom Depth(m):	0.6			Stratum Desc:	Silty topsoil, very loose, brown, moist
+					
Stratum ID:	7020193			Top Depth(m):	0.6
Bottom Depth(m):	2.3			Stratum Desc:	Clayey silt, trace sand and gravel, grey, firm, moist to wet (glacial till)
+					

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Stratum ID:	7020194			Top Depth(m):	2.3
Bottom Depth(m):	3.6			Stratum Desc:	Sandy silt, trace gravel, trace clay, loose to compact, grey, wet
+					
Stratum ID:	7020195			Top Depth(m):	3.6
Bottom Depth(m):	6.1			Stratum Desc:	Interlayered sand, trace silt, trace gravel/silty fine sand, compact to dense, grey, wet
+					
Stratum ID:	7020199			Top Depth(m):	12.0
Bottom Depth(m):	14.0			Stratum Desc:	Interlayered silty fine sand/sandy silt, trace gravel, dense, grey, wet
+					
Stratum ID:	7020200			Top Depth(m):	14.0
Bottom Depth(m):	16.9			Stratum Desc:	Silty sand, trace gravel, trace clay, fine sand seams, gravel seams, dense to very dense, grey, wet (Glacial till)
+					
Stratum ID:	7020196			Top Depth(m):	6.1
Bottom Depth(m):	7.0			Stratum Desc:	Silt, trace sand, very dense, grey, wet
+					
Stratum ID:	7020197			Top Depth(m):	7.0
Bottom Depth(m):	9.3			Stratum Desc:	Sand and gravel, trace to some silt, very dense, grey, wet
+					
Stratum ID:	7020198			Top Depth(m):	9.3
Bottom Depth(m):	12.0			Stratum Desc:	Silty sand, trace gravel, trace clay, fine sand seams, gravel seams, dense to very dense, grey, wet (Glacial till)

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1 of 1

NE/95.9

182.2

ON

BORE

Borehole ID: 867452
 Use: Geotechnical/Geological Investigation
 Drill Method: Solid stem auger
 Easting: 646553
 Location Accuracy:
 Elev. Reliability Note:
 Total Depth m: 19.9
 Township: PICKERING
 Lot: 0
 Completion Date: 30-NOV-1998
 Primary Water Use:

Type: Borehole
 Status: Decommissioned
 UTM Zone: 17
 Northing: 4862157
 Orig. Ground Elev m: 178
 DEM Ground Elev m: 179
 Primary Name:
 Concession: CON 5
 Municipality:
 Static Water Level: -999.9
 Sec. Water Use:

--- Details ---

Stratum ID: 7020065
 Bottom Depth(m): 0.1

Top Depth(m): 0.0
 Stratum Desc: Topsoil

+

Stratum ID: 7020066
 Bottom Depth(m): 0.6

Top Depth(m): 0.1
 Stratum Desc: Sandy silt, trace gravel, loose, brown, moist

+

Stratum ID: 7020067
 Bottom Depth(m): 3.3

Top Depth(m): 0.6
 Stratum Desc: Clayey silt, trace sand and gravel, stiff, brown to grey, moist (Glacial till)

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
+	Stratum ID: Bottom Depth(m):	7020068 4.6		Top Depth(m): Stratum Desc:	3.3 Silty sand, trace gravel, trace clay, compact, grey, wet (Glacial till)
+	Stratum ID: Bottom Depth(m):	7020069 14.6		Top Depth(m): Stratum Desc:	4.6 Sand and gravel, trace silt, silty fine sand layers, very dense, grey, wet
+	Stratum ID: Bottom Depth(m):	7020070 16.5		Top Depth(m): Stratum Desc:	14.6 Silty fine sand, trace gravel, very dense, grey, wet
+	Stratum ID: Bottom Depth(m):	7020071 19.9		Top Depth(m): Stratum Desc:	16.5 Silty sand, trace gravel, very dense, grey, wet (Glacial till)

<u>50</u>	1 of 1	NE/108.0	182.1	ON	BORE
Borehole ID:	867451			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Solid stem auger			UTM Zone:	17
Easting:	646553			Northing:	4862170
Location Accuracy:				Orig. Ground Elev m:	178
Elev. Reliability Note:				DEM Ground Elev m:	179
Total Depth m:	9.3			Primary Name:	
Township:	PICKERING			Concession:	CON 5
Lot:	0			Municipality:	
Completion Date:	30-NOV-1998			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7020060			Top Depth(m):	0.6
Bottom Depth(m):	4.6			Stratum Desc:	Clayey silt, trace gravel, sand and gravel layers, brown, stiff, moist (Glacial till) becomes clayey silt, trace sand and gravel, fine sand lenses, very stiff to firm, grey, moist to wet (Glacial till) below 1.52m depth
+	Stratum ID: Bottom Depth(m):	7020061 5.2		Top Depth(m): Stratum Desc:	4.6 Stiff fine sand, trace gravel, trace clay, compact, grey, wet
+	Stratum ID: Bottom Depth(m):	7020062 6.2		Top Depth(m): Stratum Desc:	5.2 Sand and gravel, trace silt, dense, grey, wet
+	Stratum ID: Bottom Depth(m):	7020063 8.5		Top Depth(m): Stratum Desc:	6.2 Silty sand, some gravel, very dense, grey, wet (glacial till)
+	Stratum ID: Bottom Depth(m):	7020064 9.3		Top Depth(m): Stratum Desc:	8.5 Sand and gravel, some silt, very dense, grey, wet

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
+					
Stratum ID:	7020059			Top Depth(m):	0.0
Bottom Depth(m):	0.6			Stratum Desc:	Sandy topsoil, some rootlets, loose, brown, moist

<u>51</u>	1 of 1	NE/71.8	182.3	ON	BORE
Borehole ID:	867479			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Solid stem auger			UTM Zone:	17
Easting:	646592			Northing:	4862146
Location Accuracy:				Orig. Ground Elev m:	179
Elev. Reliability Note:				DEM Ground Elev m:	179
Total Depth m:	8.1			Primary Name:	
Township:	PICKERING			Concession:	CON 5
Lot:	0			Municipality:	
Completion Date:	16-NOV-1998			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7020201			Top Depth(m):	0.0
Bottom Depth(m):	0.6			Stratum Desc:	Sandy topsoil, loose, brown, moist
+					
Stratum ID:	7020202			Top Depth(m):	0.6
Bottom Depth(m):	1.5			Stratum Desc:	Sand, some gravel, trace silt, compact, brown, moist
+					
Stratum ID:	7020203			Top Depth(m):	1.5
Bottom Depth(m):	4.6			Stratum Desc:	Clayey silt, trace sand and gravel, stiff, grey, moist (Glacial till)
+					
Stratum ID:	7020204			Top Depth(m):	4.6
Bottom Depth(m):	5.3			Stratum Desc:	Sandy silt, trace gravel, trace clay, dense, grey, moist
+					
Stratum ID:	7020205			Top Depth(m):	5.3
Bottom Depth(m):	8.1			Stratum Desc:	Interlayered sand, trace silt, trace gravel/silty fine sand, trace gravel, compact to very dense, grey, wet

<u>52</u>	1 of 1	NE/109.4	182.0	ON	BORE
Borehole ID:	867453			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Solid stem auger			UTM Zone:	17
Easting:	646563			Northing:	4862175
Location Accuracy:				Orig. Ground Elev m:	178
Elev. Reliability Note:				DEM Ground Elev m:	180
Total Depth m:	15.7			Primary Name:	
Township:	PICKERING			Concession:	CON 5
Lot:	0			Municipality:	
Completion Date:	29-NOV-1998			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Stratum ID:	7020074			Top Depth(m):	1.5
Bottom Depth(m):	5.0			Stratum Desc:	Clayey silt, trace sand and gravel, silty sand and gravel layer at 3.35m depth, very stiff, grey, moist to wet (Glacial till)
+					
Stratum ID:	7020075			Top Depth(m):	5.0
Bottom Depth(m):	5.3			Stratum Desc:	Medium to coarse sand, compact, grey, wet
+					
Stratum ID:	7020076			Top Depth(m):	5.3
Bottom Depth(m):	7.3			Stratum Desc:	Silty fine sand, dense, grey, wet
+					
Stratum ID:	7020077			Top Depth(m):	7.3
Bottom Depth(m):	8.9			Stratum Desc:	Sand and gravel, trace silt, very dense, grey, wet
+					
Stratum ID:	7020078			Top Depth(m):	8.9
Bottom Depth(m):	10.1			Stratum Desc:	Fine to medium sand, trace gravel, very dense, grey, wet
+					
Stratum ID:	7020079			Top Depth(m):	10.1
Bottom Depth(m):	13.3			Stratum Desc:	Sand and gravel, trace silt, very dense, grey, wet
+					
Stratum ID:	7020080			Top Depth(m):	13.3
Bottom Depth(m):	15.7			Stratum Desc:	Silty sand, some gravel, inferred cobbles, very dense, grey, wet (Glacial till)
+					
Stratum ID:	7020072			Top Depth(m):	0.0
Bottom Depth(m):	0.6			Stratum Desc:	Sandy silt topsoil, loose, brown, moist
+					
Stratum ID:	7020073			Top Depth(m):	0.6
Bottom Depth(m):	1.5			Stratum Desc:	Clayey silt, trace sand and gravel, stiff, brown, moist (Glacial till)

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1 of 1

NE/102.7

182.0

ON

BORE

Borehole ID: 867454
 Use: Geotechnical/Geological Investigation
 Drill Method: Solid stem auger
 Easting: 646585
 Location Accuracy:
 Elev. Reliability Note:
 Total Depth m: 8.1
 Township: PICKERING
 Lot: 0
 Completion Date: 16-NOV-1998
 Primary Water Use:

Type: Borehole
 Status: Decommissioned
 UTM Zone: 17
 Northing: 4862176
 Orig. Ground Elev m: 179
 DEM Ground Elev m: 180
 Primary Name:
 Concession: CON 5
 Municipality:
 Static Water Level: -999.9
 Sec. Water Use:

--- Details ---

Stratum ID: 7020081
 Bottom Depth(m): 0.6

Top Depth(m): 0.0
 Stratum Desc: Silty topsoil

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Stratum ID:	7020082			Top Depth(m):	0.6
Bottom Depth(m):	1.5			Stratum Desc:	Silty sand, some gravel, loose, brown, moist
+					
Stratum ID:	7020083			Top Depth(m):	1.5
Bottom Depth(m):	4.6			Stratum Desc:	Clayey silt, some sand, trace gravel, very stiff to stiff, grey, wet (Glacial till)
+					
Stratum ID:	7020084			Top Depth(m):	4.6
Bottom Depth(m):	8.1			Stratum Desc:	Silty sand, trace to some gravel, loose to very dense, grey, wet

54 1 of 1 WSW/70.8 182.4 Parcel 4 Markham ON EHS

Order No.: 19990614004
 Report Date: 6/18/99
 Report Type: Custom Report
 Search Radius (km): 10.00
 Addit. Info Ordered:

55 1 of 1 NE/114.1 182.6 ON BORE

Borehole ID:	865249	Type:	Borehole
Use:	Geotechnical/Geological Investigation	Status:	Decommissioned
Drill Method:	Diamond Drill	UTM Zone:	17
Easting:	646787	Northing:	4862019
Location Accuracy:		Orig. Ground Elev m:	176
Elev. Reliability Note:		DEM Ground Elev m:	174
Total Depth m:	6.1	Primary Name:	
Township:	PICKERING	Concession:	CON 5
Lot:	0	Municipality:	
Completion Date:	23-MAY-1968	Static Water Level:	.8
Primary Water Use:		Sec. Water Use:	

--- Details ---

Stratum ID:	7013061	Top Depth(m):	0.6
Bottom Depth(m):	6.1	Stratum Desc:	Gravelly sand to sandy gravel with a trace of silt and clay. (boulders up to 4in. in size encountered below about elev. 565). Grey. Dense to very dense
+			
Stratum ID:	7013060	Top Depth(m):	0.0
Bottom Depth(m):	0.6	Stratum Desc:	Clayey silt with sand and trace of organic matter. Firm

56 1 of 1 NE/104.7 182.3 ON BORE

Borehole ID:	865246	Type:	Borehole
Use:	Geotechnical/Geological Investigation	Status:	Decommissioned
Drill Method:	Diamond Drill	UTM Zone:	17
Easting:	646796	Northing:	4862033
Location Accuracy:		Orig. Ground Elev m:	176
Elev. Reliability Note:		DEM Ground Elev m:	175

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Total Depth m:	11.1			Primary Name:	
Township:	PICKERING			Concession:	CON 5
Lot:	0			Municipality:	
Completion Date:	16-MAY-1968			Static Water Level:	175
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7013054			Top Depth(m):	0.0
Bottom Depth(m):	1.1			Stratum Desc:	Clayey silt with sand and trace or organic matter. Grey. Firm
+					
Stratum ID:	7013055			Top Depth(m):	1.1
Bottom Depth(m):	11.1			Stratum Desc:	Sandy gravel to gravelly sand with a trace of silt and clay (Grey). Compact to very dense
57	1 of 1	NE/105.1	181.9	ON	BORE
Borehole ID:	867455			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Solid stem auger			UTM Zone:	17
Easting:	646618			Northing:	4862191
Location Accuracy:				Orig. Ground Elev m:	179
Elev. Reliability Note:				DEM Ground Elev m:	180
Total Depth m:	5.2			Primary Name:	
Township:	PICKERING			Concession:	CON 5
Lot:	0			Municipality:	
Completion Date:	17-JAN-1998			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7020085			Top Depth(m):	0.0
Bottom Depth(m):	0.6			Stratum Desc:	Sandy topsoil, loose, brown, moist
+					
Stratum ID:	7020086			Top Depth(m):	0.6
Bottom Depth(m):	1.1			Stratum Desc:	Silty fine sand, loose, brown, wet
+					
Stratum ID:	7020087			Top Depth(m):	1.1
Bottom Depth(m):	2.3			Stratum Desc:	Sandy silt, trace gravel, trace clay, compact, grey, moist
+					
Stratum ID:	7020088			Top Depth(m):	2.3
Bottom Depth(m):	4.9			Stratum Desc:	Clayey silt, some sand, trace gravel, stiff to very stiff, grey, moist (glacial till)
+					
Stratum ID:	7020089			Top Depth(m):	4.9
Bottom Depth(m):	5.2			Stratum Desc:	Silty sand, trace to some gravel, compact, grey, wet
58	1 of 1	NE/108.5	182.2	ON	BORE
Borehole ID:	865247			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Diamond Drill			UTM Zone:	17

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Easting:	646806			Northing:	4862033
Location Accuracy:				Orig. Ground Elev m:	176
Elev. Reliability Note:				DEM Ground Elev m:	176
Total Depth m:	6.6			Primary Name:	
Township:	PICKERING			Concession:	CON 5
Lot:	0			Municipality:	
Completion Date:	17-MAY-1968			Static Water Level:	.6
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7013056			Top Depth(m):	0.0
Bottom Depth(m):	1.1			Stratum Desc:	Clayey silt with sand and a trace of organic matter. Firm
+					
Stratum ID:	7013057			Top Depth(m):	1.1
Bottom Depth(m):	6.6			Stratum Desc:	Sandy gravel to gravelly sand with a trace of silt and clay. (boulders up to 5in. in size encountered below elev. 565) (Grey) Compact to very dense

<u>59</u>	1 of 1	NE/100.0	182.0	ON	BORE
Borehole ID:	865245			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Diamond Drill			UTM Zone:	17
Easting:	646815			Northing:	4862045
Location Accuracy:				Orig. Ground Elev m:	176
Elev. Reliability Note:				DEM Ground Elev m:	176
Total Depth m:	6.6			Primary Name:	
Township:	PICKERING			Concession:	CON 5
Lot:	0			Municipality:	
Completion Date:	16-MAY-1968			Static Water Level:	.5
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7013052			Top Depth(m):	0.0
Bottom Depth(m):	1.1			Stratum Desc:	Clayey silt with sand and trace of organic matter. Grey. Firm
+					
Stratum ID:	7013053			Top Depth(m):	1.1
Bottom Depth(m):	6.6			Stratum Desc:	Sandy gravel to gravelly sand with a trace of silt and clay. (Grey). Compact to very dense

<u>60</u>	1 of 1	NE/60.7	182.1	ON	BORE
Borehole ID:	867480			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Solid stem auger			UTM Zone:	17
Easting:	646692			Northing:	4862171
Location Accuracy:				Orig. Ground Elev m:	179
Elev. Reliability Note:				DEM Ground Elev m:	179
Total Depth m:	8.2			Primary Name:	
Township:	PICKERING			Concession:	CON 5
Lot:	0			Municipality:	
Completion Date:	16-NOV-1998			Static Water Level:	-999.9

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7020206			Top Depth(m):	0.0
Bottom Depth(m):	0.6			Stratum Desc:	Sandy topsoil, loose, brown, moist
+					
Stratum ID:	7020207			Top Depth(m):	0.6
Bottom Depth(m):	0.8			Stratum Desc:	Silty sand, trace to some gravel, loose, brown, moist
+					
Stratum ID:	7020208			Top Depth(m):	0.8
Bottom Depth(m):	8.2			Stratum Desc:	Sandy silt, trace gravel, trace clay, fine sand lenses, compact to loose, grey, moist to wet (Glacial till)
<u>61</u>	1 of 1	NE/33.1	181.9	ON	BORE
Borehole ID:	866176			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Diamond Drill			UTM Zone:	17
Easting:	646776			Northing:	4862102
Location Accuracy:				Orig. Ground Elev m:	176
Elev. Reliability Note:				DEM Ground Elev m:	179
Total Depth m:	11.1			Primary Name:	
Township:	PICKERING			Concession:	CON 5
Lot:	0			Municipality:	
Completion Date:	16-MAY-1988			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7015945			Top Depth(m):	0.0
Bottom Depth(m):	1.1			Stratum Desc:	Clayey silt with sand and a trace of organic matter, grey. Firm
+					
Stratum ID:	7015946			Top Depth(m):	1.1
Bottom Depth(m):	11.1			Stratum Desc:	Sandy gravel to gravelly sand with a trace of silt and clay. Grey. Compact to very dense
<u>62</u>	1 of 1	NE/100.0	181.8	ON	BORE
Borehole ID:	867456			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Solid stem auger			UTM Zone:	17
Easting:	646725			Northing:	4862225
Location Accuracy:				Orig. Ground Elev m:	180
Elev. Reliability Note:				DEM Ground Elev m:	181
Total Depth m:	5.2			Primary Name:	
Township:	PICKERING			Concession:	CON 5
Lot:	0			Municipality:	
Completion Date:	14-NOV-1998			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7020090			Top Depth(m):	0.0

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Bottom Depth(m):	0.6			Stratum Desc:	Sandy topsoil, loose, brown, moist
+					
Stratum ID:	7020091			Top Depth(m):	0.6
Bottom Depth(m):	2.3			Stratum Desc:	Sand, trace silt, trace gravel, compact to dense, brown, moist
+					
Stratum ID:	7020092			Top Depth(m):	2.3
Bottom Depth(m):	3.8			Stratum Desc:	Clayey silt, some sand, trace gravel. Very stiff to hard, grey, moist (Glacial till)
+					
Stratum ID:	7020093			Top Depth(m):	3.8
Bottom Depth(m):	5.2			Stratum Desc:	Sandy silt, trace of gravel, trace of clay, dense to compact, grey, moist (Glacial till)

63**1 of 1****NE/63.7****181.8****BORE****ON**

Borehole ID: 867481
 Use: Geotechnical/Geological Investigation
 Drill Method: Solid stem auger
 Easting: 646779
 Location Accuracy:
 Elev. Reliability Note:
 Total Depth m: 5.2
 Township: PICKERING
 Lot: 0
 Completion Date: 14-NOV-1998
 Primary Water Use:

Type: Borehole
 Status: Decommissioned
 UTM Zone: 17
 Northing: 4862207
 Orig. Ground Elev m: 181
 DEM Ground Elev m: 182
 Primary Name:
 Concession: CON 5
 Municipality:
 Static Water Level: -999.9
 Sec. Water Use:

--- Details ---

Stratum ID: 7020210
 Bottom Depth(m): 1.5

Top Depth(m): 0.6
 Stratum Desc: Sandy silt, trace gravel, compact, brown, moist

+
 Stratum ID: 7020211
 Bottom Depth(m): 3.0

Top Depth(m): 1.5
 Stratum Desc: Clayey silt, some sand, trace gravel, very stiff, brown to grey, moist (Glacial till)

+
 Stratum ID: 7020212
 Bottom Depth(m): 5.2

Top Depth(m): 3.0
 Stratum Desc: Sandy silt, trace gravel, trace clay, compact, grey, moist to wet (Glacial till)

+
 Stratum ID: 7020209
 Bottom Depth(m): 0.6

Top Depth(m): 0.0
 Stratum Desc: Sandy topsoil, loose, brown, moist

64**1 of 1****NE/99.7****181.8****BORE****ON**

Borehole ID: 867457
 Use: Geotechnical/Geological Investigation
 Drill Method: Solid stem auger
 Easting: 646820
 Location Accuracy:

Type: Borehole
 Status: Decommissioned
 UTM Zone: 17
 Northing: 4862260
 Orig. Ground Elev m: 190

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Elev. Reliability Note:				DEM Ground Elev m:	189
Total Depth m:				Primary Name:	
Township:				Concession:	CON 5
Lot:				Municipality:	
Completion Date:				Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:				Top Depth(m):	0.0
Bottom Depth(m):				Stratum Desc:	Sandy topsoil, loose, brown, moist
+					
Stratum ID:				Top Depth(m):	0.8
Bottom Depth(m):				Stratum Desc:	Sandy silt, trace gravel, trace clay, compact, brown, moist
+					
Stratum ID:				Top Depth(m):	1.5
Bottom Depth(m):				Stratum Desc:	Clayey silt, trace to some sand, trace gravel, brown, moist, very stiff (glacial till)
+					
Stratum ID:				Top Depth(m):	3.8
Bottom Depth(m):				Stratum Desc:	Clayey silt, trace to some sand, trace gravel, stiff, grey, moist (Glacial till)

65

1 of 1

NE/58.4

181.8

ON

BORE

Borehole ID:	867482	Type:	Borehole
Use:	Geotechnical/Geological Investigation	Status:	Decommissioned
Drill Method:	Solid stem auger	UTM Zone:	17
Easting:	646880	Northing:	4862238
Location Accuracy:		Orig. Ground Elev m:	189
Elev. Reliability Note:		DEM Ground Elev m:	189
Total Depth m:	4.4	Primary Name:	
Township:	PICKERING	Concession:	CON 5
Lot:	0	Municipality:	
Completion Date:	14-NOV-1998	Static Water Level:	-999.9
Primary Water Use:		Sec. Water Use:	
--- Details ---			
Stratum ID:		Top Depth(m):	
7020213		0.0	
Bottom Depth(m):		Stratum Desc:	
0.6		Sandy topsoil, loose, brown, moist	
+			
Stratum ID:		Top Depth(m):	
7020214		0.6	
Bottom Depth(m):		Stratum Desc:	
0.8		Silty sand, trace gravel, loose, brown, moist	
+			
Stratum ID:		Top Depth(m):	
7020215		0.8	
Bottom Depth(m):		Stratum Desc:	
4.4		Clayey silt, some sand, trace gravel, stiff to very stiff, brown becoming grey below 3m, moist (glacial till)	

66

1 of 1

NE/57.7

181.8

ON

BORE

Borehole ID:	867483	Type:	Borehole
--------------	--------	-------	----------

71

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Order #: 20150604109

Highway 407 Transitway, Kennedy Road to Brock Road Hwy 407 Transitway Markham ON

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Solid stem auger			UTM Zone:	17
Easting:	646927			Northing:	4862255
Location Accuracy:				Orig. Ground Elev m:	188
Elev. Reliability Note:				DEM Ground Elev m:	187
Total Depth m:	6.7			Primary Name:	
Township:	PICKERING			Concession:	CON 5
Lot:	0			Municipality:	
Completion Date:	13-NOV-1998			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7020216			Top Depth(m):	0.0
Bottom Depth(m):	0.2			Stratum Desc:	Topsoil
+					
Stratum ID:	7020217			Top Depth(m):	0.2
Bottom Depth(m):	0.8			Stratum Desc:	Sandy silt, trace gravel, trace clay, loose, brown, moist
+					
Stratum ID:	7020218			Top Depth(m):	0.8
Bottom Depth(m):	2.2			Stratum Desc:	Clayey silt, trace to some sand, trace gravel, stiff to very stiff, brown, moist (glacial till)
+					
Stratum ID:	7020219			Top Depth(m):	2.2
Bottom Depth(m):	6.7			Stratum Desc:	Sandy silt, trace gravel, trace clay, inferred cobbles, very dense to dense, grey, moist (glacial till)

67

1 of 1

NE/76.9

181.8

ON

BORE

Borehole ID:	867461			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Solid stem auger			UTM Zone:	17
Easting:	646921			Northing:	4862273
Location Accuracy:				Orig. Ground Elev m:	196
Elev. Reliability Note:				DEM Ground Elev m:	187
Total Depth m:	6.7			Primary Name:	
Township:	PICKERING			Concession:	CON 5
Lot:	0			Municipality:	
Completion Date:	13-NOV-1998			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7020108			Top Depth(m):	2.3
Bottom Depth(m):	4.6			Stratum Desc:	Sandy silt, some clay, trace gravel, dense to very dense, grey, moist (Glacial till)
+					
Stratum ID:	7020109			Top Depth(m):	4.6
Bottom Depth(m):	5.8			Stratum Desc:	Silty sand, trace gravel, very dense, grey, moist (Glacial till)
+					
Stratum ID:	7020110			Top Depth(m):	5.8
Bottom Depth(m):	6.7			Stratum Desc:	Silty sand, trace gravel, compact, grey, moist to wet

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
+					
Stratum ID:	7020106			Top Depth(m):	0.0
Bottom Depth(m):	0.6			Stratum Desc:	Sandy silt topsoil, loose, brown, moist
+					
Stratum ID:	7020107			Top Depth(m):	0.6
Bottom Depth(m):	2.3			Stratum Desc:	Clayey silt, trace to some sand, trace gravel, stiff to very stiff, brown, moist (Glacial till)

68	1 of 1	NE/97.4	181.8	ON	BORE
Borehole ID:	867458			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Solid stem auger			UTM Zone:	17
Easting:	646913			Northing:	4862292
Location Accuracy:				Orig. Ground Elev m:	186
Elev. Reliability Note:				DEM Ground Elev m:	187
Total Depth m:	6.7			Primary Name:	
Township:	PICKERING			Concession:	CON 5
Lot:	0			Municipality:	
Completion Date:	13-NOV-1988			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7020098			Top Depth(m):	0.0
Bottom Depth(m):	0.9			Stratum Desc:	Sandy topsoil, very loose to loose, brown, moist
+					
Stratum ID:	7020099			Top Depth(m):	0.9
Bottom Depth(m):	6.7			Stratum Desc:	Sandy silt, trace gravel, trace clay, very dense, grey, moist (glacial till)

69	1 of 1	NE/59.8	181.8	ON	BORE
Borehole ID:	867484			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Solid stem auger			UTM Zone:	17
Easting:	646976			Northing:	4862275
Location Accuracy:				Orig. Ground Elev m:	186
Elev. Reliability Note:				DEM Ground Elev m:	187
Total Depth m:	4.1			Primary Name:	
Township:	PICKERING			Concession:	CON 5
Lot:	0			Municipality:	
Completion Date:	12-NOV-1998			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7020220			Top Depth(m):	0.0
Bottom Depth(m):	0.8			Stratum Desc:	Sandy topsoil, loose, brown, moist
+					
Stratum ID:	7020221			Top Depth(m):	0.8
Bottom Depth(m):	1.5			Stratum Desc:	Silty sand, trace gravel, trace clay, loose, brown, moist to wet
+					

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Stratum ID:	7020222			Top Depth(m):	1.5
Bottom Depth(m):	2.3			Stratum Desc:	Clayey silt, trace sand and gravel, stiff, brown, moist (Glacial till)
+					
Stratum ID:	7020223			Top Depth(m):	2.3
Bottom Depth(m):	4.1			Stratum Desc:	Sandy silt, trace gravel, trace clay, dense to very dense, grey, moist (glacial till)

70**1 of 1****NE/98.9****181.8****ON****BORE**

Borehole ID: 867459
 Use: Geotechnical/Geological Investigation
 Drill Method: Solid stem auger
 Easting: 647002
 Location Accuracy:
 Elev. Reliability Note:
 Total Depth m: 4.1
 Township: PICKERING
 Lot: 0
 Completion Date: 12-NOV-1998
 Primary Water Use:

Type: Borehole
 Status: Decommissioned
 UTM Zone: 17
 Northing: 4862327
 Orig. Ground Elev m: 181
 DEM Ground Elev m: 190
 Primary Name:
 Concession: CON 5
 Municipality:
 Static Water Level: -999.9
 Sec. Water Use:

--- Details ---

Stratum ID: 7020102
 Bottom Depth(m): 4.1

Top Depth(m): 3.7
 Stratum Desc: Silty sand, trace gravel, very dense, grey, moist (Glacial till)

+
 Stratum ID: 7020100
 Bottom Depth(m): 0.6

Top Depth(m): 0.0
 Stratum Desc: Sandy topsoil, loose, brown, moist

+
 Stratum ID: 7020101
 Bottom Depth(m): 3.7

Top Depth(m): 0.6
 Stratum Desc: Clayey silt, some sand, trace gravel, very stiff to hard, brown, moist (glacial till)

71**1 of 1****NE/58.6****181.8****ON****BORE**

Borehole ID: 867485
 Use: Geotechnical/Geological Investigation
 Drill Method: Solid stem auger
 Easting: 647065
 Location Accuracy:
 Elev. Reliability Note:
 Total Depth m: 4.1
 Township: PICKERING
 Lot: 0
 Completion Date: 12-NOV-1998
 Primary Water Use:

Type: Borehole
 Status: Decommissioned
 UTM Zone: 17
 Northing: 4862306
 Orig. Ground Elev m: 195
 DEM Ground Elev m: 194
 Primary Name:
 Concession: CON 5
 Municipality:
 Static Water Level: -999.9
 Sec. Water Use:

--- Details ---

Stratum ID: 7020224
 Bottom Depth(m): 0.6

Top Depth(m): 0.0
 Stratum Desc: Sandy topsoil, compact, brown, moist

+

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Stratum ID:	7020225			Top Depth(m):	0.6
Bottom Depth(m):	3.0			Stratum Desc:	Sandy silt, trace gravel, trace clay, compact to very dense, brown, moist
+					
Stratum ID:	7020226			Top Depth(m):	3.0
Bottom Depth(m):	4.1			Stratum Desc:	Silty sand, trace gravel, very dense, grey, moist (Glacial till)
<u>72</u>	1 of 1	NE/58.5	181.8	ON	BORE
Borehole ID:	867486			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Solid stem auger			UTM Zone:	17
Easting:	647114			Northing:	4862324
Location Accuracy:				Orig. Ground Elev m:	200
Elev. Reliability Note:				DEM Ground Elev m:	198
Total Depth m:	8.2			Primary Name:	
Township:	PICKERING			Concession:	CON 5
Lot:	0			Municipality:	
Completion Date:	11-JAN-1998			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7020227			Top Depth(m):	0.0
Bottom Depth(m):	0.6			Stratum Desc:	Sandy topsoil, loose, brown, moist
+					
Stratum ID:	7020228			Top Depth(m):	0.6
Bottom Depth(m):	3.0			Stratum Desc:	Clayey silt, trace sand and gravel, very stiff to hard, brown, moist (glacial till)
+					
Stratum ID:	7020229			Top Depth(m):	3.0
Bottom Depth(m):	6.0			Stratum Desc:	Sandy silt, trace gravel, trace clay, very dense, brown to grey, moist (Glacial till)
+					
Stratum ID:	7020230			Top Depth(m):	6.0
Bottom Depth(m):	8.2			Stratum Desc:	Silt, trace sand and gravel, trace clay, very dense to compact, grey, moist
<u>73</u>	1 of 1	NE/78.6	181.8	ON	BORE
Borehole ID:	867462			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Solid stem auger			UTM Zone:	17
Easting:	647106			Northing:	4862342
Location Accuracy:				Orig. Ground Elev m:	200
Elev. Reliability Note:				DEM Ground Elev m:	199
Total Depth m:	9.8			Primary Name:	
Township:	PICKERING			Concession:	CON 5
Lot:	0			Municipality:	
Completion Date:	11-NOV-1998			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7020111			Top Depth(m):	0.0

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Bottom Depth(m):	0.6			Stratum Desc:	Sandy topsoil, compact, brown, moist
+					
Stratum ID:	7020112			Top Depth(m):	0.6
Bottom Depth(m):	9.8			Stratum Desc:	Clayey silt, some sand, trace gravel, very stiff to hard, brown to grey, moist (Glacial till)

<u>74</u>	1 of 1	NE/99.4	181.8	ON	BORE
Borehole ID:	867460			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Solid stem auger			UTM Zone:	17
Easting:	647097			Northing:	4862361
Location Accuracy:				Orig. Ground Elev m:	200
Elev. Reliability Note:				DEM Ground Elev m:	199
Total Depth m:	9.8			Primary Name:	
Township:	PICKERING			Concession:	CON 5
Lot:	0			Municipality:	
Completion Date:	09-NOV-1998			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7020103			Top Depth(m):	0.0
Bottom Depth(m):	0.6			Stratum Desc:	Sandy topsoil, compact, brown, moist
+					
Stratum ID:	7020104			Top Depth(m):	0.6
Bottom Depth(m):	5.5			Stratum Desc:	Clayey silt, trace sand and gravel, very stiff to hard, brown, moist (Glacial till)
+					
Stratum ID:	7020105			Top Depth(m):	5.5
Bottom Depth(m):	9.8			Stratum Desc:	Silty sand, trace gravel, very dense to compact, grey, moist to wet (Glacial till)

<u>75</u>	1 of 4	WSW/14.2	174.0	MARKHAM GREEN INC. PT.LOTS 5-8/CONC. 8 MARKHAM ON	CA
Certificate #:	4-0117-98-				
Application Year:	98				
Issue Date:	//				
Approval Type:	Industrial wastewater				
Status:	In progress				
Application Type:					
Client Name:					
Client Address:					
Client City:					
Client Postal Code:					
Project Description:	NEW EQUIPMENT WASH PAD (4-0067-98-000)				
Contaminants:					
Emission Control:					

<u>75</u>	2 of 4	WSW/14.2	174.0	MARKHAM GREEN INC. PT.LOTS 5-8, CONC. 8 MARKHAM ON	CA
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Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Certificate #:		4-0067-98-			
Application Year:		98			
Issue Date:		7/22/1998			
Approval Type:		Industrial wastewater			
Status:		Cancelled			
Application Type:					
Client Name:					
Client Address:					
Client City:					
Client Postal Code:					
Project Description:		TURFCARE MAINTENANCE FACILITY			
Contaminants:					
Emission Control:					

75	3 of 4	WSW/14.2	174.0	MARKHAM GREEN INC. MARKHAM GREEN GOLF & COUNTRYCLUB 8028 NINTH LINE MARKHAM ON L6B 1A8	GEN
Generator #:		ON0099705			
Approval Yrs:		98,99,00,01			
SIC Code:		9651			
SIC Description:		GOLF COURSES			
--- Details ---					
Waste Code:		213			
Waste Description:		PETROLEUM DISTILLATES			
+					
Waste Code:		252			
Waste Description:		WASTE OILS & LUBRICANTS			

75	4 of 4	WSW/14.2	174.0	MARKHAM GREEN INC. 8028 NINTH LINE MARKHAM ON L6B 1A8	21-359	GEN
Generator #:		ON0099705				
Approval Yrs:		92,93,94,95,96,97				
SIC Code:		9651				
SIC Description:		GOLF COURSES				
--- Details ---						
Waste Code:		213				
Waste Description:		PETROLEUM DISTILLATES				
+						
Waste Code:		252				
Waste Description:		WASTE OILS & LUBRICANTS				

76	1 of 1	WSW/119.7	171.9	lot 7 con 8 ON		WWIS
Well ID:		6903987		Lot:		007
Concession:		08		Concession Name:		CON
County:		YORK		Municipality:		MARKHAM TOWN (MARKHAM TWP)
Easting Nad83:		642016.8		Northing Nad83:		4858680
Zone:		17		Utm Reliability:		margin of error : 100 m - 300 m
Primary Water Use:		Domestic		Construction Date:		06-AUG-63
Sec. Water Use:				Well Depth:		46 ft
Pump Rate:				Static Water Level:		12 ft
Flow Rate:				Clear/Cloudy:		CLEAR

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Specific Capacity:				Final Well Status:	Water Supply
Construction Method:	Boring			Flowing (y/n):	N
Elevation (m):	181.57			Elevation Reliability:	
Depth to Bedrock:				Overburden/Bedrock:	Overburden
Water Type:	FRESH			Casing Material:	SULPHUR
--- Details ---					
Thickness:				Original Depth:	1 ft
Material Colour:	TOPSOIL			Material:	1 ft
+					
Thickness:				Original Depth:	46 ft
Material Colour:	MEDIUM SAND			Material:	1 ft
+					
Thickness:	YELLOW			Original Depth:	12 ft
Material Colour:	CLAY			Material:	11 ft
+					
Thickness:	BLUE			Original Depth:	45 ft
Material Colour:	CLAY			Material:	33 ft

77 1 of 1 NE/80.8 198.6 Parcel 8 Pickering ON EHS

Order No.: 19990614008
 Report Date: 6/18/99
 Report Type: Custom Report
 Search Radius (km): 10.00
 Addit. Info Ordered:

78 1 of 1 NE/30.0 199.1 ON BORE

Borehole ID:	867359	Type:	Borehole
Use:	Geotechnical/Geological Investigation	Status:	Decommissioned
Drill Method:	Hollow stem auger	UTM Zone:	17
Easting:	647496	Northing:	4862427
Location Accuracy:		Orig. Ground Elev m:	209
Elev. Reliability Note:		DEM Ground Elev m:	209
Total Depth m:	15.3	Primary Name:	
Township:	PICKERING	Concession:	CON 5
Lot:	0	Municipality:	
Completion Date:	24-NOV-1998	Static Water Level:	1.6
Primary Water Use:		Sec. Water Use:	
--- Details ---			
Stratum ID:	7019717	Top Depth(m):	0.0
Bottom Depth(m):	1.5	Stratum Desc:	Topsoil 200mm. Sandy silt, roots, trace gravel, brown, compact, damp/moist
+			
Stratum ID:	7019718	Top Depth(m):	1.5
Bottom Depth(m):	4.6	Stratum Desc:	Clayey silt (glacial till), sandy, trace gravel, brown, very stiff, moist to wet
+			
Stratum ID:	7019719	Top Depth(m):	4.6
Bottom Depth(m):	15.3	Stratum Desc:	Silty sand to sandy silt (glacial till), trace gravel, clay, some boulders, grey, very

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
					dense, damp.

<u>79</u>	1 of 1	NE/119.1	200.8	ON	BORE
<i>Borehole ID:</i>	867358			<i>Type:</i>	Borehole
<i>Use:</i>	Geotechnical/Geological Investigation			<i>Status:</i>	Decommissioned
<i>Drill Method:</i>	Solid stem auger			<i>UTM Zone:</i>	17
<i>Easting:</i>	647464			<i>Northing:</i>	4862510
<i>Location Accuracy:</i>				<i>Orig. Ground Elev m:</i>	208
<i>Elev. Reliability Note:</i>				<i>DEM Ground Elev m:</i>	209
<i>Total Depth m:</i>	15.5			<i>Primary Name:</i>	
<i>Township:</i>	PICKERING			<i>Concession:</i>	CON 5
<i>Lot:</i>	0			<i>Municipality:</i>	
<i>Completion Date:</i>	25-NOV-1998			<i>Static Water Level:</i>	1.6
<i>Primary Water Use:</i>				<i>Sec. Water Use:</i>	
--- Details ---					
<i>Stratum ID:</i>	7019712			<i>Top Depth(m):</i>	0.0
<i>Bottom Depth(m):</i>	1.5			<i>Stratum Desc:</i>	Topsoil 405mm. Sandy silt, some organics, brown, damp
+					
<i>Stratum ID:</i>	7019713			<i>Top Depth(m):</i>	1.5
<i>Bottom Depth(m):</i>	9.1			<i>Stratum Desc:</i>	Silty sand (Glacial till), some clay and gravel, dry to moist, very dense. Brown to grey
+					
<i>Stratum ID:</i>	7019714			<i>Top Depth(m):</i>	9.1
<i>Bottom Depth(m):</i>	12.2			<i>Stratum Desc:</i>	Clayey silt (glacial till), sandy, trace gravel, grey, moist, hard
+					
<i>Stratum ID:</i>	7019715			<i>Top Depth(m):</i>	12.2
<i>Bottom Depth(m):</i>	15.1			<i>Stratum Desc:</i>	Sandy silt (Glacial till), fine gravel, grey, very dense, damp
+					
<i>Stratum ID:</i>	7019716			<i>Top Depth(m):</i>	15.1
<i>Bottom Depth(m):</i>	15.5			<i>Stratum Desc:</i>	Gravelly sand, grey, wet

<u>80</u>	1 of 1	NE/74.4	200.6	ON	BORE
<i>Borehole ID:</i>	867360			<i>Type:</i>	Borehole
<i>Use:</i>	Geotechnical/Geological Investigation			<i>Status:</i>	Decommissioned
<i>Drill Method:</i>	Hollow stem auger			<i>UTM Zone:</i>	17
<i>Easting:</i>	647513			<i>Northing:</i>	4862480
<i>Location Accuracy:</i>				<i>Orig. Ground Elev m:</i>	210
<i>Elev. Reliability Note:</i>				<i>DEM Ground Elev m:</i>	209
<i>Total Depth m:</i>	15.3			<i>Primary Name:</i>	
<i>Township:</i>	PICKERING			<i>Concession:</i>	CON 5
<i>Lot:</i>	0			<i>Municipality:</i>	
<i>Completion Date:</i>	24-NOV-1998			<i>Static Water Level:</i>	-999.9
<i>Primary Water Use:</i>				<i>Sec. Water Use:</i>	
--- Details ---					
<i>Stratum ID:</i>	7019720			<i>Top Depth(m):</i>	0.0
<i>Bottom Depth(m):</i>	1.8			<i>Stratum Desc:</i>	Topsoil 380mm. Sandy silt, trace organics, brown, loose

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
+	Stratum ID: 7019721 Bottom Depth(m): 3.8			Top Depth(m): 1.8 Stratum Desc: Clayey silt (Glacial till), sandy, trace gravel, very stiff to hard, brown	
+	Stratum ID: 7019722 Bottom Depth(m): 15.3			Top Depth(m): 3.8 Stratum Desc: Sandy silt to silty sand (glacial till), trace to some gravel, clay, some boulders, brown to grey, very dense. Dry to wet	

<u>81</u>	1 of 1	NE/27.2	201.4	ON	BORE
Borehole ID:	867363			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Hollow stem auger			UTM Zone:	17
Easting:	647595			Northing:	4862459
Location Accuracy:				Orig. Ground Elev m:	214
Elev. Reliability Note:				DEM Ground Elev m:	213
Total Depth m:	15.3			Primary Name:	
Township:	PICKERING			Concession:	CON 5
Lot:	0			Municipality:	
Completion Date:	01-DEC-1998			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7019728			Top Depth(m):	0.0
Bottom Depth(m):	0.8			Stratum Desc:	Topsoil 280mm. Sandy silt, organics, compact
+	Stratum ID: 7019730 Bottom Depth(m): 15.3			Top Depth(m): 7.6 Stratum Desc: Sandy silt to silty sand (Glacial till), some gravel, clay, grey, very dense	
+	Stratum ID: 7019729 Bottom Depth(m): 7.6			Top Depth(m): 0.8 Stratum Desc: Clayey silt (glacial till), sandy, trace gravel. Stiff to very stiff then hard. Brown to grey	

<u>82</u>	1 of 1	NE/72.7	202.0	ON	BORE
Borehole ID:	867362			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Hollow stem auger			UTM Zone:	17
Easting:	647582			Northing:	4862502
Location Accuracy:				Orig. Ground Elev m:	214
Elev. Reliability Note:				DEM Ground Elev m:	213
Total Depth m:	18.4			Primary Name:	
Township:	PICKERING			Concession:	CON 5
Lot:	0			Municipality:	
Completion Date:	26-NOV-1998			Static Water Level:	15.7
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7019725			Top Depth(m):	0.0
Bottom Depth(m):	1.1			Stratum Desc:	Topsoil 280mm. Sandy silt, organics,

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
					compact
+					
Stratum ID:	7019726			Top Depth(m):	1.1
Bottom Depth(m):	7.6			Stratum Desc:	Clayey silt (glacial till), sandy, some gravel, brown. Very stiff to hard
+					
Stratum ID:	7019727			Top Depth(m):	7.6
Bottom Depth(m):	18.4			Stratum Desc:	Silty sand (glacial till), some gravel, trace of clay, occasional cobbles, boulders, very dense. Brown to grey
83	1 of 1	NE/75.1	202.0	ON	BORE
Borehole ID:	831966			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Solid stem auger			UTM Zone:	17
Easting:	647587			Northing:	4862507
Location Accuracy:				Orig. Ground Elev m:	210
Elev. Reliability Note:				DEM Ground Elev m:	213
Total Depth m:	15.4			Primary Name:	
Township:				Concession:	
Lot:				Municipality:	
Completion Date:	11-JAN-1994			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	6008338			Top Depth(m):	0.0
Bottom Depth(m):	0.5			Stratum Desc:	30mm asphalt over granular fill
+					
Stratum ID:	6008339			Top Depth(m):	0.5
Bottom Depth(m):	15.4			Stratum Desc:	Heterogeneous mixture of clayey silt, some sand, trace gravel, hard, occasional cobbles and boulders (glacial till), brown to grey
84	1 of 1	NE/25.7	201.3	ON	BORE
Borehole ID:	867366			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Hollow stem auger			UTM Zone:	17
Easting:	647623			Northing:	4862467
Location Accuracy:				Orig. Ground Elev m:	215
Elev. Reliability Note:				DEM Ground Elev m:	214
Total Depth m:	18.4			Primary Name:	
Township:	PICKERING			Concession:	CON 5
Lot:	0			Municipality:	
Completion Date:	01-DEC-1998			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7019737			Top Depth(m):	0.0
Bottom Depth(m):	18.4			Stratum Desc:	Topsoil 220mm. Sandy silt to silty sand (glacial till), some gravel, clay, boulders. Brown to grey. Compact to very dense

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
85	1 of 1	NE/71.9	202.0	ON	BORE
Borehole ID:	866163			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Solid stem auger			UTM Zone:	17
Easting:	647598			Northing:	4862507
Location Accuracy:				Orig. Ground Elev m:	210
Elev. Reliability Note:				DEM Ground Elev m:	214
Total Depth m:	15.4			Primary Name:	
Township:	PICKERING			Concession:	CON 5
Lot:	0			Municipality:	
Completion Date:	10-JAN-1994			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7015896			Top Depth(m):	0.5
Bottom Depth(m):	15.4			Stratum Desc:	Heterogeneous mixture of clayey silt, some sand, trace gravel, hard. Occasional cobbles and boulders. (Glacial till). Brown to grey.
+					
Stratum ID:	7015895			Top Depth(m):	0.0
Bottom Depth(m):	0.5			Stratum Desc:	50 mm asphalt over granular fill
86	1 of 1	NE/117.8	202.8	ON	BORE
Borehole ID:	867361			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Hollow stem auger			UTM Zone:	17
Easting:	647566			Northing:	4862545
Location Accuracy:				Orig. Ground Elev m:	214
Elev. Reliability Note:				DEM Ground Elev m:	213
Total Depth m:	15.5			Primary Name:	
Township:	PICKERING			Concession:	CON 5
Lot:	0			Municipality:	
Completion Date:	26-NOV-1998			Static Water Level:	7
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7019723			Top Depth(m):	0.0
Bottom Depth(m):	1.1			Stratum Desc:	Topsoil 200mm. Sandy silt, organics, compact
+					
Stratum ID:	7019724			Top Depth(m):	1.1
Bottom Depth(m):	15.5			Stratum Desc:	Clayey silt to sandy silt (glacial till), trace to some gravel, some cobbles or boulders. Very stiff to hard or compact to dense. Brown to grey
87	1 of 1	NE/69.0	201.9	ON	BORE
Borehole ID:	867017			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Solid stem auger			UTM Zone:	17

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Easting:	647605			Northing:	4862507
Location Accuracy:				Orig. Ground Elev m:	210
Elev. Reliability Note:				DEM Ground Elev m:	214
Total Depth m:	15.4			Primary Name:	
Township:	PICKERING			Concession:	CON 5
Lot:	0			Municipality:	
Completion Date:	11-JAN-1994			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7018651			Top Depth(m):	0.0
Bottom Depth(m):	0.5			Stratum Desc:	50mm of asphalt over granular fill
+					
Stratum ID:	7018652			Top Depth(m):	0.5
Bottom Depth(m):	15.4			Stratum Desc:	Heterogeneous mixture of clayey silt, some sand, trace of gravel, hard. Occasional cobbles and boulders. (Glacial till). Brown to grey

<u>88</u>	1 of 1	NE/71.6	202.0	ON	BORE
Borehole ID:	867365			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Hollow stem auger			UTM Zone:	17
Easting:	647610			Northing:	4862511
Location Accuracy:				Orig. Ground Elev m:	214
Elev. Reliability Note:				DEM Ground Elev m:	214
Total Depth m:	15.4			Primary Name:	
Township:	PICKERING			Concession:	CON 5
Lot:	0			Municipality:	
Completion Date:	30-NOV-1998			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7019735			Top Depth(m):	0.0
Bottom Depth(m):	1.5			Stratum Desc:	Topsoil 200mm. Silty sand, some topsoil, brown, loose, damp
+					
Stratum ID:	7019736			Top Depth(m):	1.5
Bottom Depth(m):	15.4			Stratum Desc:	Sandy silt (glacial till), trace of gravel, some clay, dense to very dense, damp to moist. Brown to moist. Brown to grey.

<u>89</u>	1 of 1	NE/117.2	203.1	ON	BORE
Borehole ID:	867364			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Hollow stem auger			UTM Zone:	17
Easting:	647596			Northing:	4862554
Location Accuracy:				Orig. Ground Elev m:	214
Elev. Reliability Note:				DEM Ground Elev m:	214
Total Depth m:	18.4			Primary Name:	
Township:	PICKERING			Concession:	CON 5
Lot:	0			Municipality:	
Completion Date:	27-NOV-1998			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
--- Details ---					
Stratum ID:	7019731			Top Depth(m):	0.0
Bottom Depth(m):	7.5			Stratum Desc:	Topsoil 250mm. Sandy silt (glacial till), trace to some gravel, clay, cobbles. Compact to dense/very dense. brown to grey. Damp to moist
+					
Stratum ID:	7019732			Top Depth(m):	7.6
Bottom Depth(m):	10.7			Stratum Desc:	Clayey silt (glacial till), some sand seams, trace of gravel, grey, hard
+					
Stratum ID:	7019733			Top Depth(m):	10.7
Bottom Depth(m):	16.8			Stratum Desc:	Sandy silt (glacial till), some gravel, clay, grey, damp to moist, very dense
+					
Stratum ID:	7019734			Top Depth(m):	16.8
Bottom Depth(m):	18.4			Stratum Desc:	Gravelly sand, some silt, grey, dense to very dense

90	1 of 1	WSW/71.4	169.4	Parcel 3 Markham ON	EHS
Order No.:	19990614003				
Report Date:	6/18/99				
Report Type:	Custom Report				
Search Radius (km):	10.00				
Addit. Info Ordered:					

91	1 of 1	WSW/100.8	168.0	lot 8 con 8 ON	WWIS
Well ID:	6919449			Lot:	008
Concession:	08			Concession Name:	CON
County:	YORK			Municipality:	RICHMOND HILL TOWN (MARKHAM)
Easting Nad83:	640998.8			Northing Nad83:	4858673
Zone:	17			Utm Reliability:	unknown UTM
Primary Water Use:	Domestic			Construction Date:	13-MAR-88
Sec. Water Use:				Well Depth:	106 ft
Pump Rate:	5 GPM			Static Water Level:	40 ft
Flow Rate:				Clear/Cloudy:	CLEAR
Specific Capacity:				Final Well Status:	Water Supply
Construction Method:	Rotary (Convent.)			Flowing (y/n):	N
Elevation (m):	172.59			Elevation Reliability:	
Depth to Bedrock:				Overburden/Bedrock:	Overburden
Water Type:	FRESH			Casing Material:	FRESH
--- Details ---					
Thickness:	GREY			Original Depth:	78 ft
Material Colour:	CLAY, STONES, SAND			Material:	27 ft
+					
Thickness:	BROWN			Original Depth:	22 ft
Material Colour:	CLAY, SANDY			Material:	22 ft
+					
Thickness:	GREY			Original Depth:	51 ft

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Material Colour:	SAND, STONES			Material:	5 ft
+					
Thickness:	GREY			Original Depth:	46 ft
Material Colour:	CLAY, STONES			Material:	24 ft
+					
Thickness:	GREY			Original Depth:	106 ft
Material Colour:	SAND, STONES			Material:	28 ft

<u>92</u>	1 of 2	WSW/102.7	168.0	lot 8 con 8 ON	WWIS
Well ID:	6925804			Lot:	008
Concession:	08			Concession Name:	CON
County:	YORK			Municipality:	MARKHAM TOWN (MARKHAM TWP)
Easting Nad83:	640995.9			Northing Nad83:	4858674
Zone:	17			Utm Reliability:	unknown UTM
Primary Water Use:				Construction Date:	10-APR-01
Sec. Water Use:				Well Depth:	125 ft
Pump Rate:				Static Water Level:	
Flow Rate:				Clear/Cloudy:	
Specific Capacity:				Final Well Status:	Dewatering
Construction Method:	Air Percussion			Flowing (y/n):	
Elevation (m):	172.62			Elevation Reliability:	
Depth to Bedrock:				Overburden/Bedrock:	Overburden
Water Type:				Casing Material:	FRESH
--- Details ---					
Thickness:	BROWN			Original Depth:	49 ft
Material Colour:	CLAY, SAND, STONES			Material:	38 ft
+					
Thickness:	GREY			Original Depth:	115 ft
Material Colour:	FINE SAND			Material:	66 ft
+					
Thickness:	GREY			Original Depth:	120 ft
Material Colour:	SAND, STONES			Material:	5 ft
+					
Thickness:	GREY			Original Depth:	125 ft
Material Colour:	CLAY, STONES			Material:	5 ft
+					
Thickness:	BROWN			Original Depth:	11 ft
Material Colour:	SAND, CLAY			Material:	11 ft

<u>92</u>	2 of 2	WSW/102.7	168.0	lot 8 con 8 ON	WWIS
Well ID:	6927006			Lot:	008
Concession:	08			Concession Name:	CON
County:	YORK			Municipality:	MARKHAM TOWN (MARKHAM TWP)
Easting Nad83:	640996			Northing Nad83:	4858674
Zone:	17			Utm Reliability:	margin of error : 1 km - 3 km
Primary Water Use:	Not Used			Construction Date:	14-JAN-03
Sec. Water Use:				Well Depth:	
Pump Rate:				Static Water Level:	
Flow Rate:				Clear/Cloudy:	
Specific Capacity:				Final Well Status:	Abandoned-Other

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Construction Method:	Other Method			Flowing (y/n):	
Elevation (m):	172.62			Elevation Reliability:	
Depth to Bedrock:				Overburden/Bedrock:	No formation data
Water Type:				Casing Material:	

93	1 of 1	WSW/44.8	166.8	lot 7 con 8 ON	WWIS
Well ID:	6903988			Lot:	007
Concession:	08			Concession Name:	CON
County:	YORK			Municipality:	MARKHAM TOWN (MARKHAM TWP)
Easting Nad83:	640834.8			Northing Nad83:	4858553
Zone:	17			Utm Reliability:	margin of error : 100 m - 300 m
Primary Water Use:	Not Used			Construction Date:	07-OCT-65
Sec. Water Use:				Well Depth:	175 ft
Pump Rate:				Static Water Level:	
Flow Rate:				Clear/Cloudy:	
Specific Capacity:				Final Well Status:	Abandoned-Supply
Construction Method:	Cable Tool			Flowing (y/n):	
Elevation (m):	171.77			Elevation Reliability:	
Depth to Bedrock:	150			Overburden/Bedrock:	Bedrock
Water Type:	FRESH			Casing Material:	
--- Details ---					
Thickness:	YELLOW			Original Depth:	18 ft
Material Colour:	CLAY, MEDIUM SAND			Material:	18 ft
+					
Thickness:	BLUE			Original Depth:	84 ft
Material Colour:	CLAY, GRAVEL			Material:	66 ft
+					
Thickness:				Original Depth:	87 ft
Material Colour:	MEDIUM SAND, SILT			Material:	3 ft
+					
Thickness:	BLUE			Original Depth:	105 ft
Material Colour:	CLAY, MEDIUM SAND			Material:	18 ft
+					
Thickness:	RED			Original Depth:	150 ft
Material Colour:	CLAY, MEDIUM SAND			Material:	45 ft
+					
Thickness:				Original Depth:	175 ft
Material Colour:	SHALE			Material:	25 ft

94	1 of 1	WSW/73.4	166.8	ON	BORE
Borehole ID:	867555			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Solid stem auger			UTM Zone:	17
Easting:	640765			Northing:	4858554
Location Accuracy:				Orig. Ground Elev m:	171
Elev. Reliability Note:				DEM Ground Elev m:	170
Total Depth m:	6.6			Primary Name:	
Township:	MARKHAM			Concession:	CON 8
Lot:	0			Municipality:	
Completion Date:	17-NOV-1998			Static Water Level:	6.5

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7020478			Top Depth(m):	0.0
Bottom Depth(m):	0.5			Stratum Desc:	Topsoil
+					
Stratum ID:	7020479			Top Depth(m):	0.5
Bottom Depth(m):	6.6			Stratum Desc:	Clayey silt, trace sand, trace gravel, mottled with oxidized zones, grey-brown, very stiff to hard possibly reworked becomes silty clay, some sand, trace to some gravel, mottled grey-brown, slightly moist, very stiff, occasional shale and limestone

<u>95</u>	1 of 1	WSW/96.6	166.8	ON	BORE
Borehole ID:	867119			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Hollow stem auger			UTM Zone:	17
Easting:	640687			Northing:	4858533
Location Accuracy:				Orig. Ground Elev m:	167
Elev. Reliability Note:				DEM Ground Elev m:	166
Total Depth m:	12.6			Primary Name:	
Township:	MARKHAM			Concession:	CON 8
Lot:	0			Municipality:	
Completion Date:	12-JUN-1996			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7018918			Top Depth(m):	0.0
Bottom Depth(m):	11.4			Stratum Desc:	Heterogeneous mixture of clayey silt, sand and gravel. Firm to hard. (Glacial till)
+					
Stratum ID:	7018919			Top Depth(m):	11.4
Bottom Depth(m):	12.6			Stratum Desc:	Sandy silt, trace clay. Very dense

<u>96</u>	1 of 1	WSW/68.2	166.8	ON	BORE
Borehole ID:	867554			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Solid stem auger			UTM Zone:	17
Easting:	640683			Northing:	4858496
Location Accuracy:				Orig. Ground Elev m:	166
Elev. Reliability Note:				DEM Ground Elev m:	166
Total Depth m:	10.7			Primary Name:	
Township:	MARKHAM			Concession:	CON 8
Lot:	0			Municipality:	
Completion Date:	18-NOV-1998			Static Water Level:	8.2
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7020475			Top Depth(m):	0.3
Bottom Depth(m):	5.3			Stratum Desc:	Silty clay to clayey silt, some sand,

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
					trace gravel, occasional oxidized zones, light brown, stiff to hard, (Glacial till)
+					
Stratum ID:	7020476			Top Depth(m):	5.3
Bottom Depth(m):	6.4			Stratum Desc:	Silt and silty clay, laminated, grey, hard
+					
Stratum ID:	7020477			Top Depth(m):	6.4
Bottom Depth(m):	10.7			Stratum Desc:	Silt and sand, trace gravel, grey, dense to very dense
+					
Stratum ID:	7020474			Top Depth(m):	0.0
Bottom Depth(m):	0.3			Stratum Desc:	Topsoil

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1 of 1

WSW/84.7

166.8

BORE

ON

Borehole ID:	867553	Type:	Borehole
Use:	Geotechnical/Geological Investigation	Status:	Decommissioned
Drill Method:	Solid stem auger	UTM Zone:	17
Easting:	640617	Northing:	4858475
Location Accuracy:		Orig. Ground Elev m:	161
Elev. Reliability Note:		DEM Ground Elev m:	162
Total Depth m:	14.2	Primary Name:	
Township:	MARKHAM	Concession:	CON 8
Lot:	0	Municipality:	
Completion Date:	19-NOV-1998	Static Water Level:	3.2
Primary Water Use:		Sec. Water Use:	

--- Details ---

Stratum ID:	7020470	Top Depth(m):	0.0
Bottom Depth(m):	0.5	Stratum Desc:	topsoil
+			
Stratum ID:	7020471	Top Depth(m):	0.5
Bottom Depth(m):	2.3	Stratum Desc:	Clayey silt, trace to some sand, trace gravel, trace topsoil inclusions, brown, very stiff (Glacial till)
+			
Stratum ID:	7020472	Top Depth(m):	2.3
Bottom Depth(m):	4.0	Stratum Desc:	Sand and silt, some gravel to gravelly, light brown, compact to dense (Glacial till)
+			
Stratum ID:	7020473	Top Depth(m):	4.0
Bottom Depth(m):	14.2	Stratum Desc:	Sand, fine to medium grained, trace to some silt, trace gravel, light brown, wet, very dense, becomes silty fine sand, very dense, grey below 7.6m depth

98

1 of 1

WSW/98.3

166.8

BORE

ON

Borehole ID:	867551	Type:	Borehole
Use:	Geotechnical/Geological Investigation	Status:	Decommissioned
Drill Method:	Solid stem auger	UTM Zone:	17
Easting:	640580	Northing:	4858468
Location Accuracy:		Orig. Ground Elev m:	160

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Order #: 20150604109

Highway 407 Transitway, Kennedy Road to Brock Road Hwy 407 Transitway Markham ON

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Elev. Reliability Note:				DEM Ground Elev m:	160
Total Depth m:	17.1			Primary Name:	
Township:	MARKHAM			Concession:	CON 8
Lot:	0			Municipality:	
Completion Date:	25-NOV-1998			Static Water Level:	3
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7020457			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	Topsoil
+					
Stratum ID:	7020458			Top Depth(m):	0.1
Bottom Depth(m):	4.7			Stratum Desc:	Sandy silt, trace gravel, some gravelly zones, some boulders and cobbles, brown, dense to very dense (Glacial till).
+					
Stratum ID:	7020459			Top Depth(m):	4.7
Bottom Depth(m):	12.2			Stratum Desc:	Silt and sand, some silt, grey, very dense
+					
Stratum ID:	7020460			Top Depth(m):	12.2
Bottom Depth(m):	14.3			Stratum Desc:	Clayey silt, some sand, trace gravel, grey, very dense
+					
Stratum ID:	7020461			Top Depth(m):	14.3
Bottom Depth(m):	17.1			Stratum Desc:	Clayey silt, some sand, trace gravel, grey, hard (Glacial till)

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1 of 1

WSW/71.4

166.8

ON

BORE

Borehole ID: 867550
 Use: Geotechnical/Geological Investigation
 Drill Method: Solid stem auger
 Easting: 640555
 Location Accuracy:
 Elev. Reliability Note:
 Total Depth m: 14
 Township: MARKHAM
 Lot: 0
 Completion Date: 02-DEC-1998
 Primary Water Use:

Type: Borehole
 Status: Decommissioned
 UTM Zone: 17
 Northing: 4858420
 Orig. Ground Elev m: 159
 DEM Ground Elev m: 159
 Primary Name:
 Concession: CON 8
 Municipality:
 Static Water Level: 1.8
 Sec. Water Use:

--- Details ---

Stratum ID: 7020452
 Bottom Depth(m): 0.1

Top Depth(m): 0.0
 Stratum Desc: Organic Loam

+

Stratum ID: 7020453
 Bottom Depth(m): 3.8

Top Depth(m): 0.1
 Stratum Desc: Sandy silt to silty sand, some peat and organics, trace gravel, brown to grey, wet to free water, loose to dense (Alluvium)

+

Stratum ID: 7020454
 Bottom Depth(m): 5.6

Top Depth(m): 3.8
 Stratum Desc: Sand, fine grained, some silt, trace gravel, very dense, grey

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
+	Stratum ID: 7020455 Bottom Depth(m): 11.1			Top Depth(m): 5.6 Stratum Desc: Sand and gravel, trace to some silt, very dense, grey	
+	Stratum ID: 7020456 Bottom Depth(m): 14.0			Top Depth(m): 11.1 Stratum Desc: Clayey silt to silty clay, trace to some sand, trace gravel, hard, grey (glacial till)	

<u>100</u>	1 of 1	NE/108.1	211.4	Parcel 9 Pickering ON	EHS
Order No.:	19990614009				
Report Date:	6/18/99				
Report Type:	Custom Report				
Search Radius (km):	10.00				
Addit. Info Ordered:					

<u>101</u>	1 of 1	WSW/110.8	166.8	lot 8 con 8 MARKHAM ON	WWIS
Well ID:	7113404			Lot:	008
Concession:	08			Concession Name:	
County:	YORK			Municipality:	MARKHAM VILLAGE
Easting Nad83:	640521			Northing Nad83:	4858446
Zone:	17			Utm Reliability:	margin of error : 10 - 30 m
Primary Water Use:				Construction Date:	23-SEP-08
Sec. Water Use:	Dewatering			Well Depth:	40 ft
Pump Rate:				Static Water Level:	
Flow Rate:				Clear/Cloudy:	
Specific Capacity:				Final Well Status:	Dewatering
Construction Method:	Other Method			Flowing (y/n):	
Elevation (m):	158.9			Elevation Reliability:	
Depth to Bedrock:				Overburden/Bedrock:	
Water Type:				Casing Material:	FRESH
--- Details ---					
Thickness:	BROWN			Original Depth:	10 ft
Material Colour:	CLAY			Material:	10 ft
+					
Thickness:	GREY			Original Depth:	25 ft
Material Colour:	CLAY			Material:	15 ft
+					
Thickness:	BROWN			Original Depth:	40 ft
Material Colour:	GRAVEL			Material:	15 ft

<u>102</u>	1 of 1	WSW/98.2	166.8	ON	BORE
Borehole ID:	867120			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Hollow stem auger			UTM Zone:	17
Easting:	640511			Northing:	4858425
Location Accuracy:				Orig. Ground Elev m:	159

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
<i>Elev. Reliability Note:</i>				<i>DEM Ground Elev m:</i>	158
<i>Total Depth m:</i>	32.1			<i>Primary Name:</i>	
<i>Township:</i>	MARKHAM			<i>Concession:</i>	CON 8
<i>Lot:</i>	0			<i>Municipality:</i>	
<i>Completion Date:</i>	11-JUN-1996			<i>Static Water Level:</i>	-999.9
<i>Primary Water Use:</i>				<i>Sec. Water Use:</i>	
--- Details ---					
<i>Stratum ID:</i>	7018920			<i>Top Depth(m):</i>	0.0
<i>Bottom Depth(m):</i>	2.1			<i>Stratum Desc:</i>	Sand and gravel, trace silt, trace organics. Very loose to compact
+					
<i>Stratum ID:</i>	7018921			<i>Top Depth(m):</i>	2.1
<i>Bottom Depth(m):</i>	9.9			<i>Stratum Desc:</i>	Silty sand to sandy silt, trace gravel. Grey. Very loose (disturbed) to very dense
+					
<i>Stratum ID:</i>	7018922			<i>Top Depth(m):</i>	9.9
<i>Bottom Depth(m):</i>	25.9			<i>Stratum Desc:</i>	Clayey silt to silt, trace gravel, trace sand. Dark grey. Hard
+					
<i>Stratum ID:</i>	7018923			<i>Top Depth(m):</i>	25.9
<i>Bottom Depth(m):</i>	32.1			<i>Stratum Desc:</i>	Sandy silt, trace to some gravel. Very dense. Weathered shale bedrock in lower portion.

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1 of 1

WSW/60.6

166.8

ON

BORE

Borehole ID: 867121
Use: Geotechnical/Geological Investigation
Drill Method: Hollow stem auger
Easting: 640514
Location Accuracy:
Elev. Reliability Note:
Total Depth m: 35.1
Township: MARKHAM
Lot: 0
Completion Date: 06-JUN-1996
Primary Water Use:

Type: Borehole
Status: Decommissioned
UTM Zone: 17
Northing: 4858382
Orig. Ground Elev m: 158
DEM Ground Elev m: 157
Primary Name:
Concession: CON 8
Municipality:
Static Water Level: -999.9
Sec. Water Use:

--- Details ---

Stratum ID: 7018924*Bottom Depth(m):* 2.9*Top Depth(m):* 0.0*Stratum Desc:* Sand and gravel. Very loose to dense. Occasional silty sand zones

+

Stratum ID: 7018925*Bottom Depth(m):* 6.9*Top Depth(m):* 2.9*Stratum Desc:* Silty sand to sandy silt, trace gravel. Grey. Compact to very dense

+

Stratum ID: 7018926*Bottom Depth(m):* 32.3*Top Depth(m):* 6.9*Stratum Desc:* Clayey silt to silt, trace gravel, trace sand. Grey. Hard. Sandy silt zones, loose

+

Stratum ID: 7018927*Bottom Depth(m):* 35.1*Top Depth(m):* 32.3*Stratum Desc:* Shale bedrock. Blue mountain

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
					formation. Weathered to unweathered.
104	1 of 1	WSW/115.4	166.8	lot 7 con 8 ON	WWIS
Well ID:	6908804			Lot:	007
Concession:	08			Concession Name:	CON
County:	YORK			Municipality:	MARKHAM TOWN (MARKHAM TWP)
Easting Nad83:	640574.7			Northing Nad83:	4858213
Zone:	17			Utm Reliability:	margin of error : 30 m - 100 m
Primary Water Use:	Domestic			Construction Date:	17-SEP-68
Sec. Water Use:				Well Depth:	97 ft
Pump Rate:	10 GPM			Static Water Level:	55 ft
Flow Rate:				Clear/Cloudy:	CLEAR
Specific Capacity:				Final Well Status:	Water Supply
Construction Method:	Cable Tool			Flowing (y/n):	N
Elevation (m):	175.34			Elevation Reliability:	
Depth to Bedrock:				Overburden/Bedrock:	Overburden
Water Type:	FRESH			Casing Material:	FRESH
--- Details ---					
Thickness:				Original Depth:	57 ft
Material Colour:	PREVIOUSLY DUG			Material:	57 ft
+					
Thickness:	BLUE			Original Depth:	88 ft
Material Colour:	CLAY, STONES			Material:	31 ft
+					
Thickness:				Original Depth:	97 ft
Material Colour:	MEDIUM SAND, GRAVEL			Material:	9 ft
105	1 of 1	WSW/57.5	166.8	ON	BORE
Borehole ID:	866179			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Hollow stem auger			UTM Zone:	17
Easting:	640484			Northing:	4858360
Location Accuracy:				Orig. Ground Elev m:	178
Elev. Reliability Note:				DEM Ground Elev m:	159
Total Depth m:	15.7			Primary Name:	
Township:	MARKHAM			Concession:	CON 8
Lot:	0			Municipality:	
Completion Date:	20-FEB-1978			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7015951			Top Depth(m):	0.0
Bottom Depth(m):	15.7			Stratum Desc:	Heterogeneous mixture of clayey silt, sand and gravel. Very stiff. (Glacial till) Brown to grey
106	1 of 1	WSW/107.5	166.8	ON	BORE
Borehole ID:	867122			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Drill Method:	Hollow stem auger			UTM Zone:	17
Easting:	640463			Northing:	4858406
Location Accuracy:				Orig. Ground Elev m:	160
Elev. Reliability Note:				DEM Ground Elev m:	159
Total Depth m:	36.6			Primary Name:	
Township:	MARKHAM			Concession:	CON 8
Lot:	0			Municipality:	
Completion Date:	18-JUN-1996			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7018928			Top Depth(m):	0.0
Bottom Depth(m):	8.4			Stratum Desc:	Silty sand to sandy silt, trace gravel. Very dense, trace organics. Brown to grey.
+					
Stratum ID:	7018929			Top Depth(m):	8.4
Bottom Depth(m):	33.4			Stratum Desc:	Clayey silt to silt, trace to some sand, trace gravel. Grey. Hard. Sandy silt zone between elev. 134m and 131m.
+					
Stratum ID:	7018930			Top Depth(m):	33.4
Bottom Depth(m):	36.6			Stratum Desc:	Shale bedrock. Blue mountain formation. Weathered to unweathered

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1 of 1

WSW/86.6

166.8

ON

BORE

Borehole ID:	867547			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Solid stem auger			UTM Zone:	17
Easting:	640470			Northing:	4858386
Location Accuracy:				Orig. Ground Elev m:	159
Elev. Reliability Note:				DEM Ground Elev m:	159
Total Depth m:	35.1			Primary Name:	
Township:	MARKHAM			Concession:	CON 8
Lot:	0			Municipality:	
Completion Date:	02-DEC-1998			Static Water Level:	1.3
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7020432			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	Topsoil
+					
Stratum ID:	7020433			Top Depth(m):	0.1
Bottom Depth(m):	2.3			Stratum Desc:	Sandy silt to silty sand, trace organics, trace shells and wood fragments, loose, grey (Alluvium)
+					
Stratum ID:	7020434			Top Depth(m):	2.3
Bottom Depth(m):	3.1			Stratum Desc:	Sand and gravel, trace to some silt, trace organics, dense, grey, wet
+					
Stratum ID:	7020435			Top Depth(m):	3.1
Bottom Depth(m):	10.1			Stratum Desc:	Silt and fine sand, very dense, grey, becoming silt, trace to some sand, trace clay, very dense, grey below 4m depth

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
+	Stratum ID: Bottom Depth(m):	7020436 25.9		Top Depth(m): Stratum Desc:	10.1 Clayey silt, some sand, trace gravel, occasional boulders and cobbles, hard, grey (Glacial till). Boulder encountered at 12.5m depth.
+	Stratum ID: Bottom Depth(m):	7020437 30.5		Top Depth(m): Stratum Desc:	25.9 Sandy silt, trace clay, trace gravel, very dense, grey (Glacial till)
+	Stratum ID: Bottom Depth(m):	7020438 32.9		Top Depth(m): Stratum Desc:	30.5 Sandy silt, trace to some clay, trace gravel, very dense, grey (Glacial till)
+	Stratum ID: Bottom Depth(m):	7020439 35.1		Top Depth(m): Stratum Desc:	32.9 Shale, 33.72-33.92m closely broken, very weak highly weathered grey shale, 33.92 0 35.1m fresh to slightly weathered, fissile, weak to moderately strong grey shale with occasional thin limy interbeds. Occasional sub vertical discontinuous joints

108**1 of 1****WSW/94.9****166.8****ON****BORE**

Borehole ID: 867123
 Use: Geotechnical/Geological Investigation
 Drill Method: Hollow stem auger
 Easting: 640450
 Location Accuracy:
 Elev. Reliability Note:
 Total Depth m: 15.7
 Township: MARKHAM
 Lot: 0
 Completion Date: 25-JUN-1996
 Primary Water Use:

Type: Borehole
 Status: Decommissioned
 UTM Zone: 17
 Northing: 4858383
 Orig. Ground Elev m: 159
 DEM Ground Elev m: 162
 Primary Name:
 Concession: CON 8
 Municipality:
 Static Water Level: -999.9
 Sec. Water Use:

--- Details ---

Stratum ID: 7018931
 Bottom Depth(m): 0.5

Top Depth(m): 0.0
 Stratum Desc: Peat. Soft

+
 Stratum ID: 7018932
 Bottom Depth(m): 2.9

Top Depth(m): 0.5
 Stratum Desc: Sand and gravel, trace silt, trace organics. Dark grey to grey. Compact to very dense

+
 Stratum ID: 7018933
 Bottom Depth(m): 9.3

Top Depth(m): 2.9
 Stratum Desc: Sandy silt to silt, trace gravel. Grey. Very dense

+
 Stratum ID: 7018934
 Bottom Depth(m): 15.7

Top Depth(m): 9.3
 Stratum Desc: Clayey silt to silt, trace to some sand, trace gravel. Hard

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
109	1 of 1	WSW/92.2	167.4	lot 7 con 8 ON	WWIS
Well ID:	6908802			Lot:	007
Concession:	08			Concession Name:	CON
County:	YORK			Municipality:	MARKHAM TOWN (MARKHAM TWP)
Easting Nad83:	640514.7			Northing Nad83:	4858203
Zone:	17			Utm Reliability:	margin of error : 30 m - 100 m
Primary Water Use:	Domestic			Construction Date:	29-AUG-68
Sec. Water Use:				Well Depth:	145 ft
Pump Rate:	2 GPM			Static Water Level:	50 ft
Flow Rate:				Clear/Cloudy:	CLEAR
Specific Capacity:				Final Well Status:	Water Supply
Construction Method:	Cable Tool			Flowing (y/n):	N
Elevation (m):	177.64			Elevation Reliability:	
Depth to Bedrock:				Overburden/Bedrock:	Overburden
Water Type:	FRESH			Casing Material:	FRESH
--- Details ---					
Thickness:				Original Depth:	53 ft
Material Colour:	PREVIOUSLY DUG			Material:	53 ft
+					
Thickness:	BLUE			Original Depth:	137 ft
Material Colour:	CLAY, GRAVEL			Material:	84 ft
+					
Thickness:	GREY			Original Depth:	145 ft
Material Colour:	FINE SAND			Material:	8 ft
110	1 of 1	WSW/34.2	167.1	ON	BORE
Borehole ID:	831982			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Hollow stem auger			UTM Zone:	17
Easting:	640454			Northing:	4858314
Location Accuracy:				Orig. Ground Elev m:	178
Elev. Reliability Note:				DEM Ground Elev m:	173
Total Depth m:	15.7			Primary Name:	
Township:				Concession:	
Lot:				Municipality:	
Completion Date:	20-FEB-1979			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	6008396			Top Depth(m):	0.0
Bottom Depth(m):	15.7			Stratum Desc:	Heterogeneous mixture of clayey silt, sand and gravel, very stiff (glacial till), brown to grey
111	1 of 1	WSW/91.0	167.7	lot 7 con 8 ON	WWIS
Well ID:	6917542			Lot:	007
Concession:	08			Concession Name:	CON
County:	YORK			Municipality:	MARKHAM TOWN (MARKHAM TWP)
Easting Nad83:	640498			Northing Nad83:	4858194
Zone:	17			Utm Reliability:	margin of error : 3 - 10 m
Primary Water Use:	Domestic			Construction Date:	15-JUN-85

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Sec. Water Use:				Well Depth:	115 ft
Pump Rate:	5 GPM			Static Water Level:	46 ft
Flow Rate:				Clear/Cloudy:	CLEAR
Specific Capacity:				Final Well Status:	Water Supply
Construction Method:	Rotary (Convent.)			Flowing (y/n):	N
Elevation (m):	177.97			Elevation Reliability:	
Depth to Bedrock:	15			Overburden/Bedrock:	Mixed in a Layer
Water Type:	FRESH			Casing Material:	FRESH
--- Details ---					
Thickness:	GREY			Original Depth:	115 ft
Material Colour:	SAND, SILT, COARSE-GRAINED			Material:	10 ft
+					
Thickness:	BROWN			Original Depth:	15 ft
Material Colour:	CLAY, STONES, HARD			Material:	15 ft
+					
Thickness:	GREY			Original Depth:	105 ft
Material Colour:	CLAY, SANDSTONE, LAYERED			Material:	90 ft

112	1 of 1	WSW/66.9	167.8	lot 7 con 8 ON	WWIS
Well ID:	6908820			Lot:	007
Concession:	08			Concession Name:	CON
County:	YORK			Municipality:	MARKHAM TOWN (MARKHAM TWP)
Easting Nad83:	640434.7			Northing Nad83:	4858183
Zone:	17			Utm Reliability:	margin of error : 30 m - 100 m
Primary Water Use:				Construction Date:	06-AUG-68
Sec. Water Use:				Well Depth:	53 ft
Pump Rate:				Static Water Level:	
Flow Rate:				Clear/Cloudy:	
Specific Capacity:				Final Well Status:	Abandoned-Supply
Construction Method:	Boring			Flowing (y/n):	
Elevation (m):	179.43			Elevation Reliability:	
Depth to Bedrock:				Overburden/Bedrock:	Overburden
Water Type:				Casing Material:	SULPHUR
--- Details ---					
Thickness:				Original Depth:	1 ft
Material Colour:	TOPSOIL			Material:	1 ft
+					
Thickness:	BLUE			Original Depth:	53 ft
Material Colour:	CLAY			Material:	41 ft
+					
Thickness:	BROWN			Original Depth:	12 ft
Material Colour:	CLAY			Material:	11 ft

113	1 of 1	WSW/83.1	168.3	lot 7 con 8 ON	WWIS
Well ID:	6908816			Lot:	007
Concession:	08			Concession Name:	CON
County:	YORK			Municipality:	MARKHAM TOWN (MARKHAM TWP)
Easting Nad83:	640384.7			Northing Nad83:	4858133
Zone:	17			Utm Reliability:	margin of error : 30 m - 100 m
Primary Water Use:				Construction Date:	22-AUG-68

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Sec. Water Use:				Well Depth:	58 ft
Pump Rate:				Static Water Level:	
Flow Rate:				Clear/Cloudy:	
Specific Capacity:				Final Well Status:	Abandoned-Supply
Construction Method:	Boring			Flowing (y/n):	
Elevation (m):	179.85			Elevation Reliability:	
Depth to Bedrock:				Overburden/Bedrock:	Overburden
Water Type:				Casing Material:	SULPHUR
--- Details ---					
Thickness:	BLUE			Original Depth:	58 ft
Material Colour:	CLAY			Material:	46 ft
+					
Thickness:	BROWN			Original Depth:	12 ft
Material Colour:	CLAY			Material:	11 ft
+					
Thickness:				Original Depth:	1 ft
Material Colour:	TOPSOIL			Material:	1 ft

114	1 of 1	WSW/80.2	168.6	Markham ON	WWIS
Well ID:	7183181			Lot:	
Concession:				Concession Name:	
County:	YORK			Municipality:	MARKHAM TOWN (MARKHAM TWP)
Easting Nad83:	640352			Northing Nad83:	4858110
Zone:	17			Utm Reliability:	margin of error : 30 m - 100 m
Primary Water Use:	Monitoring			Construction Date:	01-NOV-11
Sec. Water Use:				Well Depth:	32.8 m
Pump Rate:				Static Water Level:	
Flow Rate:				Clear/Cloudy:	
Specific Capacity:				Final Well Status:	Observation Wells
Construction Method:	Boring			Flowing (y/n):	
Elevation (m):				Elevation Reliability:	
Depth to Bedrock:				Overburden/Bedrock:	
Water Type:				Casing Material:	FRESH, Not stated
--- Details ---					
Thickness:	BROWN			Original Depth:	.4 m
Material Colour:	TOPSOIL, GRAVEL, DARK-COLOURED			Material:	.4 m
+					
Thickness:	GREY			Original Depth:	4.8 m
Material Colour:	CLAY, SILT, SAND			Material:	4.4 m
+					
Thickness:	GREY			Original Depth:	9.2 m
Material Colour:	CLAY, SAND, STONES			Material:	4.4 m
+					
Thickness:	BROWN			Original Depth:	15.1 m
Material Colour:	SILT, GRAVEL, SAND			Material:	5.9 m
+					
Thickness:	BROWN			Original Depth:	18.1 m
Material Colour:	SAND, CLAY, SILTY			Material:	3 m
+					
Thickness:	GREY			Original Depth:	25.2 m

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Material Colour:	SILT, SAND, GRAVELLY			Material:	7.1 m
+					
Thickness:	GREY			Original Depth:	27.1 m
Material Colour:	SILT, GRAVEL, GRAVELLY			Material:	1.9 m
+					
Thickness:	GREY			Original Depth:	29.9 m
Material Colour:	SAND, SILT, GRAVELLY			Material:	2.8 m
+					
Thickness:	GREY			Original Depth:	32.8 m
Material Colour:	SILT, SAND, GRAVEL			Material:	2.9 m

115	1 of 2	WSW/114.3	169.4	GLITTER DEVELOPMENT CORP. CRESANE ST./RIBSTON CRES. MARKHAM TOWN ON	CA
Certificate #:	3-0633-94-				
Application Year:	94				
Issue Date:	6/16/1994				
Approval Type:	Municipal sewage				
Status:	Approved				
Application Type:					
Client Name:					
Client Address:					
Client City:					
Client Postal Code:					
Project Description:					
Contaminants:					
Emission Control:					

115	2 of 2	WSW/114.3	169.4	GLITTER DEVELOPMENT CORP. CRESANE ST./RIBSTON CRES. MARKHAM TOWN ON	CA
Certificate #:	7-0474-94-				
Application Year:	94				
Issue Date:	6/16/1994				
Approval Type:	Municipal water				
Status:	Approved				
Application Type:					
Client Name:					
Client Address:					
Client City:					
Client Postal Code:					
Project Description:					
Contaminants:					
Emission Control:					

116	1 of 1	WSW/45.7	169.0	lot 7 con 8 ON	WWIS
Well ID:	6912753			Lot:	007
Concession:	08			Concession Name:	CON
County:	YORK			Municipality:	MARKHAM TOWN (MARKHAM TWP)
Easting Nad83:	640214.7			Northing Nad83:	4858143
Zone:	17			Utm Reliability:	margin of error : 30 m - 100 m

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Primary Water Use:	Domestic			Construction Date:	06-JUN-75
Sec. Water Use:				Well Depth:	90 ft
Pump Rate:	6 GPM			Static Water Level:	40 ft
Flow Rate:				Clear/Cloudy:	CLEAR
Specific Capacity:				Final Well Status:	Water Supply
Construction Method:	Rotary (Convent.)			Flowing (y/n):	N
Elevation (m):	181.01			Elevation Reliability:	
Depth to Bedrock:				Overburden/Bedrock:	Overburden
Water Type:	Not stated			Casing Material:	FRESH
--- Details ---					
Thickness:	BLUE			Original Depth:	35 ft
Material Colour:	CLAY			Material:	20 ft
+					
Thickness:	BLUE			Original Depth:	90 ft
Material Colour:	GRAVEL, SAND			Material:	10 ft
+					
Thickness:	BROWN			Original Depth:	15 ft
Material Colour:	CLAY			Material:	15 ft
+					
Thickness:	BLUE			Original Depth:	80 ft
Material Colour:	CLAY, SAND, GRAVEL			Material:	45 ft

<u>117</u>	1 of 1	ENE/42.3	212.8	ON	BORE
Borehole ID:	867369			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Hollow stem auger			UTM Zone:	17
Easting:	649895			Northing:	4863256
Location Accuracy:				Orig. Ground Elev m:	216
Elev. Reliability Note:				DEM Ground Elev m:	214
Total Depth m:	12.2			Primary Name:	
Township:	PICKERING			Concession:	CON 5
Lot:	0			Municipality:	
Completion Date:	18-NOV-1988			Static Water Level:	7.2
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7019741			Top Depth(m):	0.0
Bottom Depth(m):	1.1			Stratum Desc:	Topsoil 300mm. Sandy silt with organic matter, moist, loose
+					
Stratum ID:	7019742			Top Depth(m):	1.1
Bottom Depth(m):	12.2			Stratum Desc:	Sandy silt to silty sand (glacial till), some gravel, trace of clay, very dense. Frequent boulders below El. 211m. Brown to grey

<u>118</u>	1 of 1	ENE/87.3	212.8	ON	BORE
Borehole ID:	867368			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Hollow stem auger			UTM Zone:	17
Easting:	649880			Northing:	4863298

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Location Accuracy:				Orig. Ground Elev m:	217
Elev. Reliability Note:				DEM Ground Elev m:	214
Total Depth m:				Primary Name:	
Township:				CON 5	
Lot:				Municipality:	
Completion Date:				Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:				Top Depth(m):	0.0
Bottom Depth(m):				Stratum Desc:	Topsoil 300mm. Sandy silt to silty sand (glacial till), some gravel, trace clay, occasional cobbles, boulders, compact. Very dense. Brown to grey

<u>119</u>	1 of 1	ENE/62.2	212.8	ON	BORE
Borehole ID:				Type:	Borehole
Use:				Status:	Decommissioned
Drill Method:				UTM Zone:	17
Easting:				Northing:	4863277
Location Accuracy:				Orig. Ground Elev m:	215
Elev. Reliability Note:				DEM Ground Elev m:	214
Total Depth m:				Primary Name:	
Township:				CON 5	
Lot:				Municipality:	
Completion Date:				Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:				Top Depth(m):	0.0
Bottom Depth(m):				Stratum Desc:	300mm of granular fill over clayey silt with organic inclusions. Brown (Fill)
+					
Stratum ID:				Top Depth(m):	1.5
Bottom Depth(m):				Stratum Desc:	Heterogeneous mixture of clayey silt, trace gravel, some sand, occasional cobbles and boulders. (Glacial till). Stiff to hard. Brown to grey

<u>120</u>	1 of 1	ENE/60.8	212.8	ON	BORE
Borehole ID:				Type:	Borehole
Use:				Status:	Decommissioned
Drill Method:				UTM Zone:	17
Easting:				Northing:	4863276
Location Accuracy:				Orig. Ground Elev m:	215
Elev. Reliability Note:				DEM Ground Elev m:	214
Total Depth m:				Primary Name:	
Township:				CON 5	
Lot:				Municipality:	
Completion Date:				Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:				Top Depth(m):	0.0

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Bottom Depth(m):	1.5			Stratum Desc:	300 mm of granular fill over clayey silt fill with organic inclusions, brown. (Fill)
+					
Stratum ID:	7015898			Top Depth(m):	1.5
Bottom Depth(m):	10.8			Stratum Desc:	Heterogeneous mixture of clayey silt, trace of gravel, some sand, occasional cobbles and boulders. (Glacial till). Brown to grey. Stiff to hard
121	1 of 1	ENE/87.9	212.8	ON	BORE
Borehole ID:	831967			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Solid stem auger			UTM Zone:	17
Easting:	649888			Northing:	4863301
Location Accuracy:				Orig. Ground Elev m:	215
Elev. Reliability Note:				DEM Ground Elev m:	214
Total Depth m:	10.8			Primary Name:	
Township:				Concession:	
Lot:				Municipality:	
Completion Date:	10-JAN-1994			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	6008340			Top Depth(m):	0.0
Bottom Depth(m):	1.5			Stratum Desc:	300mm of granular fill over clayey silt fill with organic inclusions, brown (fill)
+					
Stratum ID:	6008341			Top Depth(m):	1.5
Bottom Depth(m):	10.8			Stratum Desc:	Heterogeneous mixture of clayey silt, trace gravel, some sand, occasional cobbles and boulders (glacial till), stiff to hard, brown to grey
122	1 of 1	ENE/42.6	212.8	ON	BORE
Borehole ID:	867372			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Hollow stem auger			UTM Zone:	17
Easting:	649917			Northing:	4863263
Location Accuracy:				Orig. Ground Elev m:	214
Elev. Reliability Note:				DEM Ground Elev m:	213
Total Depth m:	9.2			Primary Name:	
Township:	PICKERING			Concession:	CON 5
Lot:	0			Municipality:	
Completion Date:	23-NOV-1998			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7019748			Top Depth(m):	0.0
Bottom Depth(m):	1.1			Stratum Desc:	Topsoil 280mm. Clayey silt, sandy, trace gravel, very stiff
+					
Stratum ID:	7019749			Top Depth(m):	1.1
Bottom Depth(m):	6.1			Stratum Desc:	Sandy silt to silty sand (glacial till), trace of gravel, some clay, dry to damp, very

Map Key	Number of Records	Direction/Distance m	Elevation m	Site	DB
					dense
+					
Stratum ID:	7019750			Top Depth(m):	6.1
Bottom Depth(m):	9.2			Stratum Desc:	Clayey silt (glacial till) sandy, trace of gravel, grey, hard
123	1 of 1	ENE/87.8	212.8	ON	BORE
Borehole ID:	867371			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Hollow stem auger			UTM Zone:	17
Easting:	649901			Northing:	4863305
Location Accuracy:				Orig. Ground Elev m:	215
Elev. Reliability Note:				DEM Ground Elev m:	214
Total Depth m:	12.6			Primary Name:	
Township:	PICKERING			Concession:	CON 5
Lot:	0			Municipality:	
Completion Date:	20-NOV-1998			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7019745			Top Depth(m):	0.0
Bottom Depth(m):	1.5			Stratum Desc:	Topsoil 220 mm. clayey silt, trace of gravel, brown, moist, very stiff
+					
Stratum ID:	7019746			Top Depth(m):	1.5
Bottom Depth(m):	4.6			Stratum Desc:	Silty sand to sandy silt (glacial till), trace to some gravel, clay, very dense. Brown to grey
+					
Stratum ID:	7019747			Top Depth(m):	4.6
Bottom Depth(m):	12.6			Stratum Desc:	Clayey silt (glacial till), sandy, trace gravel, grey, hard
124	1 of 1	ENE/102.0	212.8	Parcel 10 Pickering ON	EHS
Order No.:	19990614010				
Report Date:	6/18/99				
Report Type:	Custom Report				
Search Radius (km):	10.00				
Addit. Info Ordered:					
125	1 of 1	WSW/102.7	176.3	ON	BORE
Borehole ID:	867265			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Hollow stem auger			UTM Zone:	17
Easting:	639008			Northing:	4857612
Location Accuracy:				Orig. Ground Elev m:	175
Elev. Reliability Note:				DEM Ground Elev m:	175
Total Depth m:	11.1			Primary Name:	
Township:	MARKHAM			Concession:	CON 7
Lot:	0			Municipality:	

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Completion Date:	14-DEC-1990			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7019433			Top Depth(m):	0.0
Bottom Depth(m):	0.8			Stratum Desc:	Topsoil
+					
Stratum ID:	7019434			Top Depth(m):	0.8
Bottom Depth(m):	11.1			Stratum Desc:	Heterogeneous mixture of clayey silt, sand and gravel. Very stiff to hard (Glacial till). Brown to grey. Occasional wet sand seams

126	1 of 1	WSW/114.7	178.2	Parcel 1 Markham ON	EHS
Order No.:	19990614001				
Report Date:	6/18/99				
Report Type:	Custom Report				
Search Radius (km):	10.00				
Addit. Info Ordered:					

127	1 of 1	ENE/108.6	198.5	ON	BORE
Borehole ID:	867436			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Solid stem auger			UTM Zone:	17
Easting:	651124			Northing:	4863709
Location Accuracy:				Orig. Ground Elev m:	193
Elev. Reliability Note:				DEM Ground Elev m:	194
Total Depth m:	5.1			Primary Name:	
Township:	PICKERING			Concession:	CON 5
Lot:	0			Municipality:	
Completion Date:	26-NOV-1998			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7019973			Top Depth(m):	0.0
Bottom Depth(m):	0.3			Stratum Desc:	Topsoil - dark brown sandy silt
+					
Stratum ID:	7019974			Top Depth(m):	0.3
Bottom Depth(m):	5.1			Stratum Desc:	Silt till - soft, brown clayey silt and sand, some gravel, slightly plastic D.T.P. L. , becoming more hard, occasional cobble below 0.5m of depth

128	1 of 1	ENE/89.1	197.8	ON	BORE
Borehole ID:	867434			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Solid stem auger			UTM Zone:	17
Easting:	651172			Northing:	4863725
Location Accuracy:				Orig. Ground Elev m:	191
Elev. Reliability Note:				DEM Ground Elev m:	192

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Total Depth m:	5.1			Primary Name:	
Township:	PICKERING			Concession:	CON 5
Lot:	0			Municipality:	
Completion Date:	26-NOV-1998			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7019969			Top Depth(m):	0.0
Bottom Depth(m):	0.9			Stratum Desc:	Topsoil - dark brown sandy silt
+					
Stratum ID:	7019970			Top Depth(m):	0.9
Bottom Depth(m):	5.1			Stratum Desc:	Silt till - firm, grey clayey silt and sand, with gravel, slightly plastic, A.P.L, becoming very stiff with gravel below 2.25m, becoming hard below 4.05m of depth

<u>129</u>	1 of 1	ENE/98.7	197.8	ON	BORE
Borehole ID:	867433			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Solid stem auger			UTM Zone:	17
Easting:	651183			Northing:	4863747
Location Accuracy:				Orig. Ground Elev m:	190
Elev. Reliability Note:				DEM Ground Elev m:	191
Total Depth m:	6.6			Primary Name:	
Township:	PICKERING			Concession:	CON 5
Lot:	0			Municipality:	
Completion Date:	25-NOV-1998			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7019966			Top Depth(m):	0.0
Bottom Depth(m):	0.6			Stratum Desc:	Topsoil - soft, dark brown clayey silt
+					
Stratum ID:	7019967			Top Depth(m):	0.6
Bottom Depth(m):	4.1			Stratum Desc:	Silt till - silt to very stiff, grey clayey silt and sand, with gravel, slightly plastic, D.T.P.L
+					
Stratum ID:	7019968			Top Depth(m):	4.1
Bottom Depth(m):	6.6			Stratum Desc:	Sand - compact, grey sand with gravel, trace of silt and clay, saturated, becoming very dense below 5.55m of depth

<u>130</u>	1 of 1	ENE/50.9	197.8	ON	BORE
Borehole ID:	867429			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Solid stem auger			UTM Zone:	17
Easting:	651214			Northing:	4863711
Location Accuracy:				Orig. Ground Elev m:	190
Elev. Reliability Note:				DEM Ground Elev m:	190
Total Depth m:	6.6			Primary Name:	

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Township:	PICKERING			Concession:	CON 5
Lot:	0			Municipality:	
Completion Date:	25-NOV-1998			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7019956			Top Depth(m):	0.0
Bottom Depth(m):	0.6			Stratum Desc:	Topsoil - dark brown clayey silt with roots
+					
Stratum ID:	7019957			Top Depth(m):	0.6
Bottom Depth(m):	5.6			Stratum Desc:	Silt till - very stiff, grey clayey silt and sand, trace of gravel, slightly plastic, D.T.P.L.
+					
Stratum ID:	7019958			Top Depth(m):	5.6
Bottom Depth(m):	6.6			Stratum Desc:	Sand - dense, dark grey silty sand, some gravel, occasional cobbles, saturated

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ENE/78.3

197.5

ON

BORE

Borehole ID:	867428			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Solid stem auger			UTM Zone:	17
Easting:	651243			Northing:	4863751
Location Accuracy:				Orig. Ground Elev m:	190
Elev. Reliability Note:				DEM Ground Elev m:	190
Total Depth m:	4.9			Primary Name:	
Township:	PICKERING			Concession:	CON 5
Lot:	0			Municipality:	
Completion Date:	24-NOV-1998			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7019954			Top Depth(m):	0.0
Bottom Depth(m):	0.4			Stratum Desc:	Topsoil - dark brown, clayey silt with organic inclusions
+					
Stratum ID:	7019955			Top Depth(m):	0.4
Bottom Depth(m):	4.9			Stratum Desc:	Silt till - firm to hard, brownish grey clayey silt and sand, trace of gravel, D.T.P.L., occasional inclusions of clay and silty sand, becoming grey below 2.15m of depth

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1 of 1

ENE/114.6

197.0

ON

BORE

Borehole ID:	867431			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Solid stem auger			UTM Zone:	17
Easting:	651275			Northing:	4863800
Location Accuracy:				Orig. Ground Elev m:	192
Elev. Reliability Note:				DEM Ground Elev m:	192
Total Depth m:	5.1			Primary Name:	
Township:	PICKERING			Concession:	CON 5

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Order #: 20150604109

Highway 407 Transitway, Kennedy Road to Brock Road Hwy 407 Transitway Markham ON

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Lot:	0			Municipality:	
Completion Date:	25-NOV-1998			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7019962			Top Depth(m):	0.0
Bottom Depth(m):	0.6			Stratum Desc:	Topsoil - dark brown to black sandy silt
+					
Stratum ID:	7019963			Top Depth(m):	0.6
Bottom Depth(m):	5.1			Stratum Desc:	Silt till - silt to hard, brownish grey clayey silt and sand, trace of gravel, occasional cobbles and sand seams, slightly plastic, D.T.P.L.

133 1 of 1 **ENE/84.7** **196.8** **ON** **BORE**

Borehole ID:	867427	Type:	Borehole
Use:	Geotechnical/Geological Investigation	Status:	Decommissioned
Drill Method:	Solid stem auger	UTM Zone:	17
Easting:	651336	Northing:	4863788
Location Accuracy:		Orig. Ground Elev m:	193
Elev. Reliability Note:		DEM Ground Elev m:	193
Total Depth m:	5.1	Primary Name:	
Township:	PICKERING	Concession:	CON 5
Lot:	0	Municipality:	
Completion Date:	24-NOV-1998	Static Water Level:	-999.9
Primary Water Use:		Sec. Water Use:	
--- Details ---			
Stratum ID:	7019951	Top Depth(m):	0.0
Bottom Depth(m):	0.6	Stratum Desc:	Topsoil - dark brown clayey silt
+			
Stratum ID:	7019952	Top Depth(m):	0.6
Bottom Depth(m):	2.9	Stratum Desc:	Silt till - very stiff, brown clayey silt and sand, trace of gravel, slightly plastic, D.T.P.L., becoming hard, brownish grey, occasional cobbles below 1.35m of depth
+			
Stratum ID:	7019953	Top Depth(m):	2.9
Bottom Depth(m):	5.1	Stratum Desc:	Sand - compact, dark grey silty sand, saturated

134 1 of 2 **WSW/118.9** **181.5** **R.M. OF YORK** **CA**
L.7&8,C.6/MCCOWAN RD/HWY.407
MARKHAM TOWN ON

Certificate #:	7-0143-97-
Application Year:	97
Issue Date:	3/12/1997
Approval Type:	Municipal water
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Client Postal Code:					
Project Description:					
Contaminants:					
Emission Control:					

134 **2 of 2** **WSW/118.9** **181.5** **Markham Stouffville Hospital** **SPL**
Hwy 407 @ McCowan Rd.
Markham ON

Ref No.: 6384-5VFLK6
Incident Dt: 1/22/2004
MOE Reported Dt: 1/22/2004
Contaminant Name: medical waste
Contaminant Quantity:
Incident Summary: Garbage Truck: 1 Bag of Medical Waste to Hwy
Incident Cause: Unknown
Incident Reason: Unknown - Reason not determined
Nature of Impact: Soil Contamination
Receiving Medium: Land
Environmental Impact: Possible

135 **1 of 1** **WSW/67.3** **182.4** **lot 7 con 6** **WWIS**
ON

Well ID:	6903695	Lot:	007
Concession:	06	Concession Name:	CON
County:	YORK	Municipality:	MARKHAM TOWN (MARKHAM TWP)
Easting Nad83:	638048.8	Northing Nad83:	4857253
Zone:	17	Utm Reliability:	margin of error : 100 m - 300 m
Primary Water Use:	Domestic	Construction Date:	27-AUG-59
Sec. Water Use:		Well Depth:	78 ft
Pump Rate:	10 GPM	Static Water Level:	31 ft
Flow Rate:		Clear/Cloudy:	CLEAR
Specific Capacity:		Final Well Status:	Water Supply
Construction Method:	Cable Tool	Flowing (y/n):	N
Elevation (m):	180.67	Elevation Reliability:	
Depth to Bedrock:		Overburden/Bedrock:	Overburden
Water Type:	FRESH	Casing Material:	FRESH

--- Details ---

Thickness:	BLACK	Original Depth:	5 ft
Material Colour:	TOPSOIL	Material:	5 ft
+			
Thickness:		Original Depth:	30 ft
Material Colour:	CLAY	Material:	25 ft
+			
Thickness:		Original Depth:	49 ft
Material Colour:	GRAVEL	Material:	19 ft
+			
Thickness:	GREY	Original Depth:	68 ft
Material Colour:	CLAY	Material:	19 ft
+			
Thickness:		Original Depth:	78 ft
Material Colour:	MEDIUM SAND	Material:	10 ft

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
136	1 of 1	ENE/86.2	190.1	ON	BORE
Borehole ID:	867414			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Solid stem auger			UTM Zone:	17
Easting:	651683			Northing:	4863900
Location Accuracy:				Orig. Ground Elev m:	197
Elev. Reliability Note:				DEM Ground Elev m:	197
Total Depth m:	7.8			Primary Name:	
Township:	PICKERING			Concession:	CON 5
Lot:	0			Municipality:	
Completion Date:	23-NOV-1998			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7019907			Top Depth(m):	0.0
Bottom Depth(m):	0.6			Stratum Desc:	Sandy silt - loose, brown, trace of rootlets, topsoil and gravel
+					
Stratum ID:	7019908			Top Depth(m):	0.6
Bottom Depth(m):	4.1			Stratum Desc:	Silty sand - dense, brown, trace of gravel, damp, occasional cobbles
+					
Stratum ID:	7019909			Top Depth(m):	4.1
Bottom Depth(m):	7.8			Stratum Desc:	Silt and sand - dense to very dense, some clay, trace of gravel, moist, occasional cobbles
137	1 of 1	ENE/120.3	190.9	ON	BORE
Borehole ID:	867415			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Solid stem auger			UTM Zone:	17
Easting:	651666			Northing:	4863931
Location Accuracy:				Orig. Ground Elev m:	198
Elev. Reliability Note:				DEM Ground Elev m:	196
Total Depth m:	7.9			Primary Name:	
Township:	PICKERING			Concession:	CON 5
Lot:	0			Municipality:	
Completion Date:	23-NOV-1998			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7019910			Top Depth(m):	0.0
Bottom Depth(m):	0.2			Stratum Desc:	Topsoil - dark brown sandy silt
+					
Stratum ID:	7019911			Top Depth(m):	0.2
Bottom Depth(m):	5.6			Stratum Desc:	Sand - loose brown fine sand with silt, some clay, trace of gravel, damp, becoming compact of 0.7m of depth. Becoming fine to medium grained, damp below 2.15m, then becoming dense below 2.9m and finally with gravel below 4.05m of depth
+					

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Stratum ID:	7019912			Top Depth(m):	5.6
Bottom Depth(m):	7.9			Stratum Desc:	Sandy silt - very dense, brown, trace of gravel and clay, moist

138 **1 of 1** **ENE/82.6** **189.6** **ON** **BORE**

Borehole ID:	867419	Type:	Borehole
Use:	Geotechnical/Geological Investigation	Status:	Decommissioned
Drill Method:	Solid stem auger	UTM Zone:	17
Easting:	651697	Northing:	4863901
Location Accuracy:		Orig. Ground Elev m:	196
Elev. Reliability Note:		DEM Ground Elev m:	196
Total Depth m:	9.6	Primary Name:	
Township:	PICKERING	Concession:	CON 5
Lot:	0	Municipality:	
Completion Date:	24-NOV-1998	Static Water Level:	-999.9
Primary Water Use:		Sec. Water Use:	

--- Details ---

Stratum ID:	7019920	Top Depth(m):	0.0
Bottom Depth(m):	0.5	Stratum Desc:	Topsoil - dark brown sandy silt
+			
Stratum ID:	7019921	Top Depth(m):	0.5
Bottom Depth(m):	4.8	Stratum Desc:	Sand - compact, brown fine to medium sand with silt, trace of gravel, damp, becoming dense, medium to coarse grained below 2.5m and then becoming fine sand, trace of silt below 4.05m of depth
+			
Stratum ID:	7019922	Top Depth(m):	4.8
Bottom Depth(m):	8.4	Stratum Desc:	Silty sand - very dense, brown, with gravel, some clay, moist
+			
Stratum ID:	7019923	Top Depth(m):	8.4
Bottom Depth(m):	9.6	Stratum Desc:	Sand - very dense, brown, fine to medium sand, trace of silt, wet

139 **1 of 1** **ENE/90.3** **189.7** **ON** **BORE**

Borehole ID:	867418	Type:	Borehole
Use:	Geotechnical/Geological Investigation	Status:	Decommissioned
Drill Method:	Solid stem auger	UTM Zone:	17
Easting:	651695	Northing:	4863909
Location Accuracy:		Orig. Ground Elev m:	196
Elev. Reliability Note:		DEM Ground Elev m:	196
Total Depth m:	9.5	Primary Name:	
Township:	PICKERING	Concession:	CON 5
Lot:	0	Municipality:	
Completion Date:	23-NOV-1998	Static Water Level:	-999.9
Primary Water Use:		Sec. Water Use:	

--- Details ---

Stratum ID:	7019918	Top Depth(m):	0.0
Bottom Depth(m):	0.4	Stratum Desc:	Topsoil - dark brown sandy silt

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
+					
Stratum ID:	7019919			Top Depth(m):	0.4
Bottom Depth(m):	9.5			Stratum Desc:	silty sand - compact to dense, brown, some gravel, damp with cobbles/boulders, trace of gravel below 3.95m and then becoming wet below 7.65m of depth
<hr/>					
<u>140</u>	1 of 1	ENE/119.2	190.1	ON	BORE
Borehole ID:	867426			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Solid stem auger			UTM Zone:	17
Easting:	651691			Northing:	4863938
Location Accuracy:				Orig. Ground Elev m:	190
Elev. Reliability Note:				DEM Ground Elev m:	194
Total Depth m:	7.9			Primary Name:	
Township:	PICKERING			Concession:	CON 5
Lot:	0			Municipality:	
Completion Date:	29-DEC-1998			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7019947			Top Depth(m):	0.0
Bottom Depth(m):	0.8			Stratum Desc:	Topsoil - dark brown sandy silt
+					
Stratum ID:	7019948			Top Depth(m):	0.8
Bottom Depth(m):	2.5			Stratum Desc:	Sandy silt - very dense, grey, some gravel, occasional cobbles
+					
Stratum ID:	7019949			Top Depth(m):	2.5
Bottom Depth(m):	4.1			Stratum Desc:	Sand - very dense, grey, fine to medium sand, moist
+					
Stratum ID:	7019950			Top Depth(m):	4.1
Bottom Depth(m):	7.9			Stratum Desc:	Silty sand - dense, brown, trace of gravel, moist
<hr/>					
<u>141</u>	1 of 1	ENE/80.5	188.6	ON	BORE
Borehole ID:	867420			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Solid stem auger			UTM Zone:	17
Easting:	651739			Northing:	4863912
Location Accuracy:				Orig. Ground Elev m:	189
Elev. Reliability Note:				DEM Ground Elev m:	190
Total Depth m:	6.4			Primary Name:	
Township:	PICKERING			Concession:	CON 5
Lot:	0			Municipality:	
Completion Date:	25-NOV-1998			Static Water Level:	.3
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7019924			Top Depth(m):	0.0
Bottom Depth(m):	0.4			Stratum Desc:	Peat - brown, fibrous peat becoming

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
					dark grey
+					
Stratum ID:	7019926			Top Depth(m):	2.5
Bottom Depth(m):	4.1			Stratum Desc:	Gravelly sand - very dense, grey, medium to coarse grained, trace of silt
+					
Stratum ID:	7019927			Top Depth(m):	4.1
Bottom Depth(m):	6.4			Stratum Desc:	Sand - very dense, grey, trace to some gravel
+					
Stratum ID:	7019925			Top Depth(m):	0.4
Bottom Depth(m):	2.5			Stratum Desc:	Silty sand - very dense, grey, some gravel, occasional cobbles/boulders, saturated

<u>142</u>	1 of 1	ENE/87.6	188.7	ON	BORE
Borehole ID:	867421			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Solid stem auger			UTM Zone:	17
Easting:	651735			Northing:	4863919
Location Accuracy:				Orig. Ground Elev m:	189
Elev. Reliability Note:				DEM Ground Elev m:	190
Total Depth m:	6.5			Primary Name:	
Township:	PICKERING			Concession:	CON 5
Lot:	0			Municipality:	
Completion Date:	25-NOV-1998			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7019928			Top Depth(m):	0.0
Bottom Depth(m):	0.3			Stratum Desc:	Peat - brown fibrous peat
+					
Stratum ID:	7019929			Top Depth(m):	0.3
Bottom Depth(m):	4.8			Stratum Desc:	Silty sand - very dense, grey, sand, some gravel, occasional cobbles/boulders, wet
+					
Stratum ID:	7019930			Top Depth(m):	4.8
Bottom Depth(m):	6.6			Stratum Desc:	Sand - very dense, grey medium sand, trace of gravel and silt

<u>143</u>	1 of 1	ENE/113.0	189.2	Parcel 11 Pickering ON	EHS
Order No.:	19990614014				
Report Date:	6/18/99				
Report Type:	Custom Report				
Search Radius (km):	10.00				
Addit. Info Ordered:					

<u>144</u>	1 of 1	ENE/114.9	188.9	ON	BORE
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Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Borehole ID:	867422			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Solid stem auger			UTM Zone:	17
Easting:	651737			Northing:	4863948
Location Accuracy:				Orig. Ground Elev m:	196
Elev. Reliability Note:				DEM Ground Elev m:	191
Total Depth m:	9.4			Primary Name:	
Township:	PICKERING			Concession:	CON 5
Lot:	0			Municipality:	
Completion Date:	25-NOV-1998			Static Water Level:	5.5
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7019931			Top Depth(m):	0.0
Bottom Depth(m):	0.2			Stratum Desc:	Topsoil - dark brown sandy silt
+					
Stratum ID:	7019932			Top Depth(m):	0.2
Bottom Depth(m):	9.4			Stratum Desc:	Silty sand - compact, brown, trace of gravel, damp, becoming dense, brown, fine-grained with some silt below 2.5m, then becoming very dense, fine to medium grained below 4.05m, then becoming wet below 5.55m, becoming grey, silty, some gravel below 7

[145](#)

1 of 1

ENE/88.0

188.0

ON

BORE

Borehole ID:	867425			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Solid stem auger			UTM Zone:	17
Easting:	651758			Northing:	4863926
Location Accuracy:				Orig. Ground Elev m:	195
Elev. Reliability Note:				DEM Ground Elev m:	190
Total Depth m:	7.9			Primary Name:	
Township:	PICKERING			Concession:	CON 5
Lot:	0			Municipality:	
Completion Date:	26-NOV-1998			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7019942			Top Depth(m):	0.0
Bottom Depth(m):	0.2			Stratum Desc:	Topsoil - dark brown sandy silt
+					
Stratum ID:	7019943			Top Depth(m):	0.2
Bottom Depth(m):	0.7			Stratum Desc:	Sandy silt - loose, brown, moist
+					
Stratum ID:	7019944			Top Depth(m):	0.7
Bottom Depth(m):	2.9			Stratum Desc:	Silty sand - compact to dense, brown, trace of clay and gravel, moist, occasional cobble/boulders
+					
Stratum ID:	7019945			Top Depth(m):	2.9
Bottom Depth(m):	5.6			Stratum Desc:	Sand - very dense, brown, fine sand with silt, damp, becoming dense, wet below 4.05m of depth
+					

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Stratum ID:	7019946			Top Depth(m):	5.6
Bottom Depth(m):	7.9			Stratum Desc:	Silty sand - dense, grey, some gravel, wet, becoming very dense below 7.1m of depth

146	1 of 1	WSW/94.9	181.8	lot 7 con 6 ON	WWIS
Well ID:	6903697			Lot:	007
Concession:	06			Concession Name:	CON
County:	YORK			Municipality:	MARKHAM TOWN (MARKHAM TWP)
Easting Nad83:	637733.8			Northing Nad83:	4856986
Zone:	17			Utm Reliability:	margin of error : 100 m - 300 m
Primary Water Use:	Irrigation			Construction Date:	14-AUG-63
Sec. Water Use:				Well Depth:	130 ft
Pump Rate:	18 GPM			Static Water Level:	71 ft
Flow Rate:				Clear/Cloudy:	CLEAR
Specific Capacity:				Final Well Status:	Water Supply
Construction Method:	Cable Tool			Flowing (y/n):	N
Elevation (m):	182.88			Elevation Reliability:	
Depth to Bedrock:				Overburden/Bedrock:	Overburden
Water Type:	FRESH			Casing Material:	FRESH
--- Details ---					
Thickness:				Original Depth:	2 ft
Material Colour:	TOPSOIL			Material:	2 ft
+					
Thickness:				Original Depth:	80 ft
Material Colour:	CLAY, STONES			Material:	40 ft
+					
Thickness:				Original Depth:	125 ft
Material Colour:	GRAVEL, CLAY			Material:	45 ft
+					
Thickness:				Original Depth:	130 ft
Material Colour:	COARSE SAND			Material:	5 ft
+					
Thickness:				Original Depth:	40 ft
Material Colour:	GRAVEL, CLAY			Material:	38 ft

147	1 of 1	WSW/101.9	181.8	lot 7 con 6 ON	WWIS
Well ID:	6903694			Lot:	007
Concession:	06			Concession Name:	CON
County:	YORK			Municipality:	MARKHAM TOWN (MARKHAM TWP)
Easting Nad83:	637692.8			Northing Nad83:	4856966
Zone:	17			Utm Reliability:	margin of error : 100 m - 300 m
Primary Water Use:	Domestic			Construction Date:	15-MAY-59
Sec. Water Use:				Well Depth:	215 ft
Pump Rate:	2 GPM			Static Water Level:	35 ft
Flow Rate:				Clear/Cloudy:	CLEAR
Specific Capacity:				Final Well Status:	Water Supply
Construction Method:	Cable Tool			Flowing (y/n):	N
Elevation (m):	183.26			Elevation Reliability:	
Depth to Bedrock:	160			Overburden/Bedrock:	Bedrock
Water Type:	FRESH			Casing Material:	FRESH

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
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--- Details ---

Thickness:				Original Depth:	35 ft
Material Colour:	PREVIOUSLY DUG			Material:	35 ft
+					
Thickness:	BLUE			Original Depth:	142 ft
Material Colour:	CLAY, STONES			Material:	107 ft
+					
Thickness:				Original Depth:	160 ft
Material Colour:	FINE SAND			Material:	18 ft
+					
Thickness:	BLUE			Original Depth:	215 ft
Material Colour:	SHALE			Material:	55 ft

[148](#) 1 of 1 **ENE/8.7** 181.8 **3440 Brock Rd
Pickering ON L1V 2P8** **EHS**

Order No.: 20140730064
 Report Date: 07-AUG-14
 Report Type: Standard Report
 Search Radius (km): .25
 Addit. Info Ordered: Fire Insur. Maps and/or Site Plans; Title Searches; Topographic Maps; Aerial Photos

[149](#) 1 of 1 **ENE/2.5** 181.8 **lot 20 con 5
PICKERING ON** **WWIS**

Well ID:	1917692	Lot:	020
Concession:	05	Concession Name:	
County:	DURHAM	Municipality:	PICKERING TOWN
Easting Nad83:	652185	Northing Nad83:	4863973
Zone:	17	Utm Reliability:	
Primary Water Use:	Domestic	Construction Date:	31-MAR-05
Sec. Water Use:		Well Depth:	
Pump Rate:		Static Water Level:	
Flow Rate:		Clear/Cloudy:	
Specific Capacity:		Final Well Status:	Abandoned-Other
Construction Method:	Digging	Flowing (y/n):	
Elevation (m):	192.17	Elevation Reliability:	
Depth to Bedrock:		Overburden/Bedrock:	No formation data
Water Type:		Casing Material:	SULPHUR

[150](#) 1 of 1 **ENE/16.7** 181.8 **lot 19 con 5
PICKERING ON** **WWIS**

Well ID:	1917690	Lot:	019
Concession:	05	Concession Name:	
County:	DURHAM	Municipality:	PICKERING TOWN
Easting Nad83:	652195	Northing Nad83:	4863956
Zone:	17	Utm Reliability:	
Primary Water Use:	Domestic	Construction Date:	01-APR-05
Sec. Water Use:		Well Depth:	
Pump Rate:		Static Water Level:	
Flow Rate:		Clear/Cloudy:	
Specific Capacity:		Final Well Status:	Abandoned-Quality
Construction Method:	Digging	Flowing (y/n):	

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Elevation (m):	192.38			Elevation Reliability:	
Depth to Bedrock:				Overburden/Bedrock:	No formation data
Water Type:				Casing Material:	

<u>151</u>	1 of 1	ENE/67.9	181.9	ON	BORE
Borehole ID:	867409			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Solid stem auger			UTM Zone:	17
Easting:	652204			Northing:	4864047
Location Accuracy:				Orig. Ground Elev m:	191
Elev. Reliability Note:				DEM Ground Elev m:	191
Total Depth m:	6.6			Primary Name:	
Township:	PICKERING			Concession:	CON 5
Lot:	0			Municipality:	
Completion Date:	20-NOV-1998			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7019887			Top Depth(m):	0.0
Bottom Depth(m):	0.7			Stratum Desc:	Sand fill - brown gravelly sand
+					
Stratum ID:	7019888			Top Depth(m):	0.7
Bottom Depth(m):	1.0			Stratum Desc:	Silt fill - brown sandy silt, some gravel
+					
Stratum ID:	7019889			Top Depth(m):	1.0
Bottom Depth(m):	4.1			Stratum Desc:	Silty sand - compact, brown, some clay, trace of gravel, moist becomes loose below 2.9m.
+					
Stratum ID:	7019890			Top Depth(m):	4.1
Bottom Depth(m):	6.4			Stratum Desc:	Silt - compact, brown silt, trace of sand, clay and gravel, moist
+					
Stratum ID:	7019891			Top Depth(m):	6.4
Bottom Depth(m):	6.6			Stratum Desc:	silty sand - dark brown, wet

<u>152</u>	1 of 1	ENE/84.4	182.0	ON	BORE
Borehole ID:	867408			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Solid stem auger			UTM Zone:	17
Easting:	652197			Northing:	4864062
Location Accuracy:				Orig. Ground Elev m:	191
Elev. Reliability Note:				DEM Ground Elev m:	191
Total Depth m:	18.6			Primary Name:	
Township:	PICKERING			Concession:	CON 5
Lot:	0			Municipality:	
Completion Date:	19-NOV-1998			Static Water Level:	6.1
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7019883			Top Depth(m):	0.0

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Bottom Depth(m):	0.2			Stratum Desc:	Sand and gravel fill - granular shoulder
+					
Stratum ID:	7019884			Top Depth(m):	0.2
Bottom Depth(m):	4.1			Stratum Desc:	Clayey silt - very stiff, brown, some sand, trace of gravel, slightly plastic, D.T.P.L.
+					
Stratum ID:	7019885			Top Depth(m):	4.1
Bottom Depth(m):	16.9			Stratum Desc:	Sandy silt - very dense, brown, trace of gravel, moist, with a layer of grey to brown silty sand, wet below 5.55m, then becomes grey and wet below 7.1m. Below 8.55m with silty sand seams, and occasional cobbles. Finally with gravel and cobbles 10.9m
+					
Stratum ID:	7019886			Top Depth(m):	16.9
Bottom Depth(m):	18.6			Stratum Desc:	Clayey silt - hard, grey, trace of sand and gravel, slightly plastic, D.T.P.L.

153**1 of 1****ENE/102.8****182.1****ON****BORE**

Borehole ID:	866165	Type:	Borehole
Use:	Geotechnical/Geological Investigation	Status:	Decommissioned
Drill Method:	Solid stem auger	UTM Zone:	17
Easting:	652192	Northing:	4864080
Location Accuracy:		Orig. Ground Elev m:	192
Elev. Reliability Note:		DEM Ground Elev m:	191
Total Depth m:	10.8	Primary Name:	
Township:	PICKERING	Concession:	CON 5
Lot:	0	Municipality:	
Completion Date:	10-JAN-1994	Static Water Level:	-999.9
Primary Water Use:		Sec. Water Use:	

--- Details ---

Stratum ID:	7015899	Top Depth(m):	0.0
Bottom Depth(m):	0.9	Stratum Desc:	Granular fill
+			
Stratum ID:	7015900	Top Depth(m):	0.9
Bottom Depth(m):	5.3	Stratum Desc:	Heterogeneous mixture of clayey silt, trace gravel. Occasional silt zones, brown. Stiff to hard. (Glacial till)
+			
Stratum ID:	7015901	Top Depth(m):	5.3
Bottom Depth(m):	9.9	Stratum Desc:	Sandy silt to silty sand. Very dense. Brown to grey
+			
Stratum ID:	7015902	Top Depth(m):	9.9
Bottom Depth(m):	10.8	Stratum Desc:	Heterogeneous mixture of clayey silt, trace of gravel. Grey. Hard

154**1 of 1****ENE/105.4****182.1****ON****BORE**

Borehole ID:	867019	Type:	Borehole
--------------	--------	-------	----------

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Solid stem auger			UTM Zone:	17
Easting:	652199			Northing:	4864084
Location Accuracy:				Orig. Ground Elev m:	192
Elev. Reliability Note:				DEM Ground Elev m:	191
Total Depth m:	10.8			Primary Name:	
Township:	PICKERING			Concession:	CON 5
Lot:	0			Municipality:	
Completion Date:	10-JAN-1994			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7018655			Top Depth(m):	0.0
Bottom Depth(m):	0.9			Stratum Desc:	Granular fill
+					
Stratum ID:	7018656			Top Depth(m):	0.9
Bottom Depth(m):	5.3			Stratum Desc:	Heterogeneous mixture of clayey silt, trace gravel, occasional silt zones, brown (Glacial till). Stiff to hard
+					
Stratum ID:	7018657			Top Depth(m):	5.3
Bottom Depth(m):	9.9			Stratum Desc:	Sandy silt to silty sand, very dense. Brown to grey
+					
Stratum ID:	7018658			Top Depth(m):	9.9
Bottom Depth(m):	10.8			Stratum Desc:	Heterogeneous mixture of clayey silt, trace gravel, grey, hard

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ENE/87.6

181.8

ON

BORE

Borehole ID:	867413	Type:	Borehole
Use:	Geotechnical/Geological Investigation	Status:	Decommissioned
Drill Method:	Solid stem auger	UTM Zone:	17
Easting:	652209	Northing:	4864067
Location Accuracy:		Orig. Ground Elev m:	191
Elev. Reliability Note:		DEM Ground Elev m:	191
Total Depth m:	6.6	Primary Name:	
Township:	PICKERING	Concession:	CON 5
Lot:	0	Municipality:	
Completion Date:	20-NOV-1998	Static Water Level:	-999.9
Primary Water Use:		Sec. Water Use:	
--- Details ---			
Stratum ID:	7019903	Top Depth(m):	0.0
Bottom Depth(m):	0.8	Stratum Desc:	Sand and gravel fill - granular shoulder
+			
Stratum ID:	7019904	Top Depth(m):	0.8
Bottom Depth(m):	2.5	Stratum Desc:	Sand - compact, brown, sand, trace of silt, moist
+			
Stratum ID:	7019905	Top Depth(m):	2.5
Bottom Depth(m):	4.8	Stratum Desc:	Clayey silt - stiff, brown, some sand, trace of gravel, slightly plastic, A.P.L.
+			
Stratum ID:	7019906	Top Depth(m):	4.8

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Bottom Depth(m):	6.6			Stratum Desc:	Sandy silt - very dense, grey to brown, wet
156	1 of 1	ENE/65.6	181.8	lot 19 con 5 ON	WWIS
Well ID:	4601496			Lot:	019
Concession:	05			Concession Name:	CON
County:	DURHAM			Municipality:	PICKERING TOWN
Easting Nad83:	652272.8			Northing Nad83:	4864039
Zone:	17			Utm Reliability:	margin of error : 100 m - 300 m
Primary Water Use:	Domestic			Construction Date:	03-MAY-63
Sec. Water Use:				Well Depth:	60 ft
Pump Rate:	5 GPM			Static Water Level:	14 ft
Flow Rate:				Clear/Cloudy:	CLEAR
Specific Capacity:				Final Well Status:	Water Supply
Construction Method:	Rotary (Convent.)			Flowing (y/n):	N
Elevation (m):	190.1			Elevation Reliability:	
Depth to Bedrock:				Overburden/Bedrock:	Overburden
Water Type:	FRESH			Casing Material:	FRESH
--- Details ---					
Thickness:				Original Depth:	40 ft
Material Colour:	PREVIOUSLY DUG			Material:	40 ft
+					
Thickness:				Original Depth:	51 ft
Material Colour:	CLAY, GRAVEL			Material:	11 ft
+					
Thickness:				Original Depth:	54 ft
Material Colour:	FINE SAND, CLAY			Material:	3 ft
+					
Thickness:				Original Depth:	60 ft
Material Colour:	MEDIUM SAND			Material:	6 ft
157	1 of 1	ENE/80.0	164.6	ON	BORE
Borehole ID:	867403			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Solid stem auger			UTM Zone:	17
Easting:	652861			Northing:	4864542
Location Accuracy:				Orig. Ground Elev m:	166
Elev. Reliability Note:				DEM Ground Elev m:	177
Total Depth m:	6.6			Primary Name:	
Township:	PICKERING			Concession:	CON 5
Lot:	0			Municipality:	
Completion Date:	27-NOV-1988			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	7019861			Top Depth(m):	0.0
Bottom Depth(m):	0.2			Stratum Desc:	Topsoil - dark brown sandy silt
+					
Stratum ID:	7019862			Top Depth(m):	0.2
Bottom Depth(m):	0.6			Stratum Desc:	Silt - loose, brown sandy silt, wet

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
+					
Stratum ID:	7019863			Top Depth(m):	0.6
Bottom Depth(m):	2.2			Stratum Desc:	Clay till - firm, light brown silty clay, some sand, trace of gravel, medium plastic D.T.P.L., becomes very stiff below 1.35m depth
+					
Stratum ID:	7019864			Top Depth(m):	2.2
Bottom Depth(m):	2.5			Stratum Desc:	Sand till - very dense, brown sand with gravel, some silt, trace of clay, moist
+					
Stratum ID:	7019865			Top Depth(m):	2.5
Bottom Depth(m):	6.6			Stratum Desc:	Sand - dense, brown silty sand, trace of gravel and clay, occasional cobbles, moist

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ENE/9.2

159.7

BORE

ON

Borehole ID: 867404
 Use: Geotechnical/Geological Investigation
 Drill Method: Solid stem auger
 Easting: 652955
 Location Accuracy:
 Elev. Reliability Note:
 Total Depth m: 6.6
 Township: PICKERING
 Lot: 0
 Completion Date: 26-NOV-1998
 Primary Water Use:

Type: Borehole
 Status: Decommissioned
 UTM Zone: 17
 Northing: 4864509
 Orig. Ground Elev m: 165
 DEM Ground Elev m: 170
 Primary Name:
 Concession: CON 5
 Municipality:
 Static Water Level: -999.9
 Sec. Water Use:

--- Details ---

Stratum ID: 7019866
 Bottom Depth(m): 0.2

Top Depth(m): 0.0
 Stratum Desc: Pavement Structure - 25mm asphaltic over 150mm sand and gravel

+
 Stratum ID: 7019867
 Bottom Depth(m): 2.0

Top Depth(m): 0.2
 Stratum Desc: Sand and gravel fill - compact, brown silty sand and gravel, occasional cobbles, damp

+
 Stratum ID: 7019868
 Bottom Depth(m): 4.1

Top Depth(m): 2.0
 Stratum Desc: Silt till - stiff, brown silt, moist, some clay, trace of sand. Becomes firm below 2.9m of depth

+
 Stratum ID: 7019869
 Bottom Depth(m): 6.6

Top Depth(m): 4.1
 Stratum Desc: Silt - firm, dark grey clayey silt and sand, trace of gravel slightly plastic, W.T.P.L.

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1 of 1

ENE/6.4

159.8

BORE

ON

Borehole ID: 867405
 Use: Geotechnical/Geological Investigation
 Drill Method: Solid stem auger

Type: Borehole
 Status: Decommissioned
 UTM Zone: 17

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Order #: 20150604109

Highway 407 Transitway, Kennedy Road to Brock Road Hwy 407 Transitway Markham ON

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Easting: 652971 Location Accuracy: Elev. Reliability Note: Total Depth m: 6.6 Township: PICKERING Lot: 0 Completion Date: 26-NOV-1988 Primary Water Use:				Northing: 4864481 Orig. Ground Elev m: 169 DEM Ground Elev m: 169 Primary Name: Concession: CON 5 Municipality: Static Water Level: -999.9 Sec. Water Use:	
--- Details ---					
Stratum ID: 7019870				Top Depth(m): 0.0	
Bottom Depth(m): 0.2				Stratum Desc: Topsoil - dark brown sandy silt	
+					
Stratum ID: 7019871				Top Depth(m): 0.2	
Bottom Depth(m): 1.6				Stratum Desc: Silt - loose to compact, brown sandy silt, trace of gravel, damp	
+					
Stratum ID: 7019872				Top Depth(m): 1.6	
Bottom Depth(m): 6.6				Stratum Desc: Silt till - very stiff, brown clayey silt, some sand, trace of gravel, D.T.P.L. to A.P.L., becoming hard grey below 2.5m depth	
160	1 of 1	ENE/53.5	162.5	Parcel 12 Pickering ON	EHS
Order No.: 19990614015					
Report Date: 6/18/99					
Report Type: Custom Report					
Search Radius (km): 10.00					
Addit. Info Ordered:					
161	1 of 1	ENE/93.1	156.1	ON	BORE
Borehole ID: 627138				Type: Borehole	
Use: Geotechnical/Geological Investigation				Status:	
Drill Method: Power auger				UTM Zone: 17	
Easting: 653015				Northing: 4864623	
Location Accuracy:				Orig. Ground Elev m: 167	
Elev. Reliability Note:				DEM Ground Elev m: 167	
Total Depth m: 12.2				Primary Name:	
Township:				Concession:	
Lot:				Municipality:	
Completion Date: OCT-1968				Static Water Level: .1	
Primary Water Use: Not Used				Sec. Water Use:	
--- Details ---					
Stratum ID: 218443088				Top Depth(m): 0.0	
Bottom Depth(m): 1.2				Stratum Desc: SAND,SILT,HUMUS. DARK,GRANULAR.	
+					
Stratum ID: 218443089				Top Depth(m): 1.2	
Bottom Depth(m): 2.9				Stratum Desc: SAND,SILT,GRAVEL. BROWN,DENSE,GRANULAR, WATER STABLE AT 549.7 FEET.	

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
+					
Stratum ID:	218443091			Top Depth(m):	8.2
Bottom Depth(m):	10.4			Stratum Desc:	TILL,SAND,SILT, GRAVEL. GREEN,GLACIAL,GRANULAR, AGE GLACIAL.
+					
Stratum ID:	218443092			Top Depth(m):	10.4
Bottom Depth(m):	12.2			Stratum Desc:	SILT,SAND. GREEN. 0004001000095036
+					
Stratum ID:	218443090			Top Depth(m):	2.9
Bottom Depth(m):	8.2			Stratum Desc:	SAND,GRAVEL,SILT. BROWN,VERY DENSE,GRANULAR.

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1 of 1

WSW/63.0

181.5

**East Side of Kennedy Road, North of
Highway 407
Markham ON**

EHS

Order No.: 20070925037
 Report Date: 10/4/2007
 Report Type: CAN - Complete Report
 Search Radius (km): 0.35
 Addit. Info Ordered: Fire Insur. Maps And /or Site Plans; Title Search

[163](#)

1 of 1

ENE/6.4

162.0

**lot 16 con 5
ON**

WWIS

Well ID:	4601493	Lot:	016
Concession:	05	Concession Name:	CON
County:	DURHAM	Municipality:	PICKERING TOWN
Easting Nad83:	653044.8	Northing Nad83:	4864883
Zone:	17	Utm Reliability:	unknown UTM
Primary Water Use:	Not Used	Construction Date:	18-NOV-54
Sec. Water Use:		Well Depth:	100 ft
Pump Rate:	60 GPM	Static Water Level:	1 ft
Flow Rate:		Clear/Cloudy:	
Specific Capacity:		Final Well Status:	Test Hole
Construction Method:	Cable Tool	Flowing (y/n):	N
Elevation (m):	164.56	Elevation Reliability:	
Depth to Bedrock:		Overburden/Bedrock:	Overburden
Water Type:	FRESH	Casing Material:	

--- Details ---

Thickness:		Original Depth:	3 ft
Material Colour:	TOPSOIL	Material:	3 ft
+			
Thickness:		Original Depth:	6 ft
Material Colour:	GRAVEL, MEDIUM SAND	Material:	3 ft
+			
Thickness:		Original Depth:	9 ft
Material Colour:	GRAVEL, BOULDERS	Material:	3 ft
+			
Thickness:		Original Depth:	23 ft
Material Colour:	GRAVEL	Material:	14 ft

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
+					
Thickness:				Original Depth:	32 ft
Material Colour:	BOULDERS, CLAY			Material:	9 ft
+					
Thickness:	BLUE			Original Depth:	65 ft
Material Colour:	CLAY			Material:	33 ft
+					
Thickness:	BLACK			Original Depth:	85 ft
Material Colour:	FINE SAND			Material:	20 ft
+					
Thickness:				Original Depth:	100 ft
Material Colour:	SILT, MEDIUM SAND, CLAY			Material:	15 ft

164	1 of 1	ENE/42.4	159.8	lot 16 con 5 PICKERING ON	WWIS
Well ID:	7185405			Lot:	016
Concession:	05			Concession Name:	CON
County:	DURHAM			Municipality:	PICKERING TOWN
Easting Nad83:	653126			Northing Nad83:	4864975
Zone:	17			Utm Reliability:	margin of error : 30 m - 100 m
Primary Water Use:				Construction Date:	13-JUL-12
Sec. Water Use:				Well Depth:	ft
Pump Rate:				Static Water Level:	
Flow Rate:				Clear/Cloudy:	
Specific Capacity:				Final Well Status:	Abandoned-Other
Construction Method:				Flowing (y/n):	
Elevation (m):				Elevation Reliability:	
Depth to Bedrock:				Overburden/Bedrock:	
Water Type:				Casing Material:	FRESH
--- Details ---					
Thickness:				Original Depth:	ft
Material Colour:				Material:	ft

165	1 of 1	ENE/54.1	160.4	lot 15 con 5 BROUGHAM ON	WWIS
Well ID:	7181626			Lot:	015
Concession:	05			Concession Name:	CON
County:	DURHAM			Municipality:	PICKERING TOWN
Easting Nad83:	653124			Northing Nad83:	4864987
Zone:	17			Utm Reliability:	margin of error : 30 m - 100 m
Primary Water Use:	Dewatering			Construction Date:	14-MAY-12
Sec. Water Use:				Well Depth:	25 ft
Pump Rate:				Static Water Level:	
Flow Rate:				Clear/Cloudy:	
Specific Capacity:				Final Well Status:	Dewatering
Construction Method:	Rotary (Air)			Flowing (y/n):	
Elevation (m):				Elevation Reliability:	
Depth to Bedrock:				Overburden/Bedrock:	
Water Type:	Untested			Casing Material:	FRESH
--- Details ---					
Thickness:	BROWN			Original Depth:	6 ft
Material Colour:	FILL, , SOFT			Material:	6 ft

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
+					
Thickness:	BROWN			Original Depth:	12 ft
Material Colour:	CLAY, SILT, STONES			Material:	6 ft
+					
Thickness:	GREY			Original Depth:	18 ft
Material Colour:	GRAVEL, SAND, HARD			Material:	6 ft
+					
Thickness:	GREY			Original Depth:	25 ft
Material Colour:	CLAY, STONES, DENSE			Material:	7 ft

<u>166</u>	1 of 2	ENE/63.1	160.8	lot 15 con 5 BROUGHAM ON	WWIS
Well ID:	7181628			Lot:	015
Concession:	05			Concession Name:	CON
County:	DURHAM			Municipality:	PICKERING TOWN
Easting Nad83:	653124			Northing Nad83:	4864997
Zone:	17			Utm Reliability:	margin of error : 30 m - 100 m
Primary Water Use:	Dewatering			Construction Date:	09-MAY-12
Sec. Water Use:				Well Depth:	28 ft
Pump Rate:	20 GPM			Static Water Level:	10.6 ft
Flow Rate:				Clear/Cloudy:	CLEAR
Specific Capacity:				Final Well Status:	Dewatering
Construction Method:	Rotary (Air)			Flowing (y/n):	
Elevation (m):				Elevation Reliability:	
Depth to Bedrock:				Overburden/Bedrock:	
Water Type:	Untested			Casing Material:	FRESH
--- Details ---					
Thickness:	BROWN			Original Depth:	8 ft
Material Colour:	FILL, , SOFT			Material:	8 ft
+					
Thickness:	BROWN			Original Depth:	17 ft
Material Colour:	CLAY, SILT, STONES			Material:	9 ft
+					
Thickness:	GREY			Original Depth:	23 ft
Material Colour:	GRAVEL, SAND, HARD			Material:	6 ft
+					
Thickness:	GREY			Original Depth:	28 ft
Material Colour:	CLAY, SILT, STONES			Material:	5 ft

<u>166</u>	2 of 2	ENE/63.1	160.8	lot 15 con 5 BROUGHAM ON	WWIS
Well ID:	7184142			Lot:	015
Concession:	05			Concession Name:	CON
County:	DURHAM			Municipality:	PICKERING TOWN
Easting Nad83:	653124			Northing Nad83:	4864997
Zone:	17			Utm Reliability:	margin of error : 30 m - 100 m
Primary Water Use:				Construction Date:	28-JUN-12
Sec. Water Use:	Dewatering			Well Depth:	ft
Pump Rate:				Static Water Level:	
Flow Rate:				Clear/Cloudy:	
Specific Capacity:				Final Well Status:	Abandoned-Other
Construction Method:				Flowing (y/n):	

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Elevation (m): Depth to Bedrock: Water Type: --- Details --- Thickness: Material Colour:				Elevation Reliability: Overburden/Bedrock: Casing Material: Original Depth: ft Material: ft	
167	1 of 1	WSW/101.3	180.3	7997 Kennedy Road Markham ON	EHS
Order No.:		20140402053			
Report Date:		11-APR-14			
Report Type:		Standard Select Report			
Search Radius (km):		.25			
Addit. Info Ordered:					
168	1 of 1	WSW/54.7	180.7	lot 8 con 6 ON	WWIS
Well ID:		6903701		Lot: 008	
Concession:		06		Concession Name: CON	
County:		YORK		Municipality: MARKHAM TOWN (MARKHAM TWP)	
Easting Nad83:		636088.8		Northing Nad83: 4856892	
Zone:		17		Utm Reliability: margin of error : 100 m - 300 m	
Primary Water Use:		Industrial		Construction Date: 15-SEP-60	
Sec. Water Use:				Well Depth: 24 ft	
Pump Rate:		0 GPM		Static Water Level: 18 ft	
Flow Rate:				Clear/Cloudy: CLEAR	
Specific Capacity:				Final Well Status: Water Supply	
Construction Method:		Boring		Flowing (y/n): N	
Elevation (m):		176.82		Elevation Reliability:	
Depth to Bedrock:				Overburden/Bedrock: Overburden	
Water Type:		FRESH		Casing Material: SULPHUR	
--- Details ---					
Thickness:				Original Depth: 24 ft	
Material Colour:		CLAY		Material: 4 ft	
+					
Thickness:		YELLOW		Original Depth: 10 ft	
Material Colour:		CLAY		Material: 10 ft	
+					
Thickness:		BLUE		Original Depth: 18 ft	
Material Colour:		CLAY		Material: 8 ft	
+					
Thickness:				Original Depth: 20 ft	
Material Colour:		QUICKSAND, CLAY		Material: 2 ft	
169	1 of 1	WSW/9.0	181.4	ON	WWIS
Well ID:		7204160		Lot:	
Concession:				Concession Name:	
County:		YORK		Municipality: MARKHAM TOWN (MARKHAM TWP)	
Easting Nad83:		636013		Northing Nad83: 4856832	

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Zone:	17			Utm Reliability:	margin of error : 30 m - 100 m
Primary Water Use:				Construction Date:	
Sec. Water Use:				Well Depth:	
Pump Rate:				Static Water Level:	
Flow Rate:				Clear/Cloudy:	
Specific Capacity:				Final Well Status:	
Construction Method:				Flowing (y/n):	
Elevation (m):				Elevation Reliability:	
Depth to Bedrock:				Overburden/Bedrock:	
Water Type:				Casing Material:	

170	1 of 1	WSW/93.5	182.3	ON	WWIS
Well ID:	7204504			Lot:	
Concession:				Concession Name:	
County:	YORK			Municipality:	MARKHAM TOWN (MARKHAM TWP)
Easting Nad83:	636043			Northing Nad83:	4856746
Zone:	17			Utm Reliability:	margin of error : 30 m - 100 m
Primary Water Use:				Construction Date:	07-JUN-13
Sec. Water Use:				Well Depth:	
Pump Rate:				Static Water Level:	
Flow Rate:				Clear/Cloudy:	
Specific Capacity:				Final Well Status:	
Construction Method:				Flowing (y/n):	
Elevation (m):				Elevation Reliability:	
Depth to Bedrock:				Overburden/Bedrock:	
Water Type:				Casing Material:	

171	1 of 1	WSW/36.3	181.1	lot 8 con 5 ON	WWIS
Well ID:	6914892			Lot:	008
Concession:	05			Concession Name:	CON
County:	YORK			Municipality:	MARKHAM TOWN (MARKHAM TWP)
Easting Nad83:	635974.8			Northing Nad83:	4856863
Zone:	17			Utm Reliability:	margin of error : 30 m - 100 m
Primary Water Use:	Domestic			Construction Date:	29-NOV-78
Sec. Water Use:				Well Depth:	105 ft
Pump Rate:	6 GPM			Static Water Level:	23 ft
Flow Rate:				Clear/Cloudy:	CLEAR
Specific Capacity:				Final Well Status:	Water Supply
Construction Method:	Rotary (Convent.)			Flowing (y/n):	N
Elevation (m):	177.93			Elevation Reliability:	
Depth to Bedrock:				Overburden/Bedrock:	Overburden
Water Type:	FRESH			Casing Material:	FRESH
--- Details ---					
Thickness:	GREY			Original Depth:	72 ft
Material Colour:	CLAY, STONES, SAND			Material:	58 ft
+					
Thickness:	BROWN			Original Depth:	14 ft
Material Colour:	CLAY, SAND, SOFT			Material:	14 ft
+					
Thickness:	GREY			Original Depth:	86 ft
Material Colour:	CLAY, STONES, PACKED			Material:	14 ft

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance m</i>	<i>Elevation m</i>	<i>Site</i>	<i>DB</i>
+					
<i>Thickness:</i>	BROWN			<i>Original Depth:</i>	96 ft
<i>Material Colour:</i>	SAND, CLAY, LAYERED			<i>Material:</i>	10 ft
+					
<i>Thickness:</i>	BLACK			<i>Original Depth:</i>	105 ft
<i>Material Colour:</i>	FINE GRAVEL, MEDIUM GRAVEL, PACKED			<i>Material:</i>	9 ft

Unplottable Summary

DB	Company Name/Site Name	Address	City	Postal
CA	1107656 ONTARIO INC.	LEITCHCROFT FARM SUBD/HWY.407	MARKHAM TOWN ON	
CA	1039954 ONTARIO LIMITED	RIBSTON CRES./QUINCE CRES.	MARKHAM TOWN ON	
CA	DANIELS ROUGE CORPORATION	HWY.407/MILL ST/CHATELAINE DR.	MARKHAM TOWN ON	
CA	1039954 ONTARIO LIMITED	RIBSTON CRES./QUINCE CRES.	MARKHAM TOWN ON	
CA	Ruland Properties Inc.	North of Highway 407 and East of Birchmount Road	Markham ON	
CA	Markham Stouffville Hospital	Designated as Part 6 on Reference Plan 65R-18982. South of Church Street and wes	Markham ON	
CA	The Regional Municipality of York	York Durham Line West side of York Durham Line south of 4th Concession Rd and no	Markham ON	
EBR	Markham Green Inc	Part lots 5-8	Town of Markham ON	
EHS		Hwy 407	Markham ON	
GEN	DUTCHMASTER NURSERIES LTD.	LOT 16, CONC. 6	PICKERING ON	
GEN	DUTCHMASTER NURSERIES LTD. 12-556	CONC 6 LOT 16, SIDELINE 16	PICKERING ON	
GEN	DUTCHMASTER NURSERIES LTD.	CONC 6 LOT 16, SIDELINE 16	PICKERING ON	
GEN	City of Toronto	Brock North Landfill Site	Pickering ON	
PTTW	Markham Green Golf Club	Lot 6, Concession 8	Markham ON	
PTTW	Markham Green Golf & Country Club	Markham Greens Golf Course	Town of Markham ON	
PTTW	Markham Green Golf & Country Club	Parts of Lot 5	Town of Markham ON	
PTTW	Markham Green Golf Club	Lot 6, Concession 8	Markham ON	

PTTW	Markham Green Golf Club	Lot 6, Concession 8	Markham ON
SPL	H.T.B. Truckers Inc.	Highway 407	Markham ON
SPL	407 East Development Group	407 East Construction Project N of Hwy #7	Pickering ON
SPL	Turtle Island Recycling Co. Inc.	South East corner of Markham Bypass at Highway 407<UNOFFICIAL>	Markham ON
SPL		hwy 7 and sideline 16	Pickering ON
SPL	4 Refuel Canada Ltd.<UNOFFICIAL>	Highway 407	Markham ON
SPL	Royal Side Paving Inc.<UNOFFICIAL>	Highway 407	Markham ON
TCFT		East Side of Sideline 24, North of Concession 8	ON
TCFT		York Durham Line & Railroad	ON
TCFT		York Durham Line & Railroad	ON
TCFT		Westside of York Durham Line, South of Major Mackenzie Blvd.	ON
TCFT		West Side of York Durham Line, South of Major Mackenzie Blvd.	ON
TCFT		West Side of Sideline 24, South of Uxbridge Pickering Townline	ON
TCFT		West Side of Sideline 24, South of Uxbridge Pickering Townline	ON
TCFT		West Side of Sideline 24, South of Uxbridge Pickering Townline	ON
TCFT		West Side of Sideline 24, North of Regional Rd 5	ON
TCFT		West Side of Sideline 24, North of Regional Rd 5	ON
TCFT		West Side of Sideline 24, North of Regional Rd 5	ON
TCFT		West Side of Sideline 24, North of Regional Rd 5	ON
TCFT		West Side of Sideline 24, North of Regional Rd 5	ON
TCFT		West Side of Sideline 24, North of Concession 7	ON

TCFT	Southeast Corner of York Durham Line & Regional Rd. 5	ON
TCFT	Southeast Corner of York Durham Line & Concession 8	ON
TCFT	Southeast Corner of Uxbridge Pickering Townline & Sideline 24	ON
TCFT	Southeast Corner of Sideline 24 & Regional Rd 5 (Railroad Cuts Through)	ON
TCFT	Southeast Corner of Intersection of Sideline 24 & 8th Concession	ON
TCFT	Southeast Corner of Concession 7 & York Durham Line	ON
TCFT	South Side of Uxbridge Pickering Towline, West of Sideline 24	ON
TCFT	South Side of Major Mackenzie Blvd, West of York Durham Line	ON
TCFT	South Side of Concession 8, East of Sideline 24	ON
TCFT	South Side of Concession 8, East of Sideline 24	ON
TCFT	Northwest corner of Sideline 24 & Concession 8	ON
TCFT	Northwest Corner of Regional Rd 5 & Sideline 24	ON
TCFT	Northwest Corner of Major Mackenzie Blvd and York Durham Line	ON
TCFT	Northeast Corner of sideline 24 & Concession 8	ON
TCFT	Northeast Corner of York Durham Line & Concession 8	ON
TCFT	North Side of Regional Rd 5, West of Sideline 24	ON
TCFT	North Side of Hwy 7 & West of Sideline 24	ON
TCFT	North Side of Concession, East of York Durham Line & Concession 8	ON
TCFT	North Side of Concession 8, East of Sideline 24	ON
TCFT	North Side of Concession 8, East of Sideline 24	ON

TCFT	East Side of York Durham Line, South of Regional Rd. 5	ON
TCFT	East Side of York Durham Line, South of Regional Rd. 5	ON
TCFT	East Side of York Durham Line, South of Regional Rd. 5	ON
TCFT	East Side of York Durham Line, South of Concession 8	ON
TCFT	East Side of York Durham Line, South of Concession 8	ON
TCFT	East Side of York Durham Line, South of Concession 7	ON
TCFT	East Side of York Durham Line, North of Regional Rd 5	ON
TCFT	East Side of York Durham Line, North of Railroad Tracks	ON
TCFT	East Side of York Durham Line, North of Concession 8	ON
TCFT	East Side of York Durham Line, North of Concession 8	ON
TCFT	East Side of Sideline 24, South of Uxbridge Pickering Townline	ON
TCFT	East Side of Sideline 24, South of Concession 8	ON
TCFT	East Side of Sideline 24, South of Concession 8	ON
TCFT	East Side of Sideline 24, South of Concession 8	ON
TCFT	East Side of Sideline 24, South of Concession 8	ON
TCFT	East Side of Sideline 24, North of Concession 8	ON
TCFT	East Side of Sideline 24, North of Concession 8	ON
TCFT	East Side of Sideline 24, North of Concession 8	ON
TCFT	East Side of Sideline 24, North of Concession 8	ON

TCFT	York Durham Line & Railroad	ON
TCFT	East Side of Sideline 24, North of Concession 7	ON
WWIS		Markham ON
WWIS		Markham ON
WWIS		Markham ON

Unplottable Report

Site: 1107656 ONTARIO INC.
LEITCHCROFT FARM SUBD/HWY.407 MARKHAM TOWN ON

Database:
CA

Certificate #: 3-0455-96-
Application Year: 96
Issue Date: 5/13/1996
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: 1039954 ONTARIO LIMITED
RIBSTON CRES./QUINCE CRES. MARKHAM TOWN ON

Database:
CA

Certificate #: 7-0470-94-
Application Year: 94
Issue Date: 6/16/1994
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: DANIELS ROUGE CORPORATION
HWY.407/MILL ST/CHATELAINE DR. MARKHAM TOWN ON

Database:
CA

Certificate #: 7-0075-97-
Application Year: 97
Issue Date: 2/21/1997
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: 1039954 ONTARIO LIMITED
RIBSTON CRES./QUINCE CRES. MARKHAM TOWN ON

Database:
CA

Certificate #: 3-0627-94-
Application Year: 94
Issue Date: 6/16/1994
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: Ruland Properties Inc.
North of Highway 407 and East of Birchmount Road Markham ON

Database:
CA

Certificate #: 7536-8J2R5P
Application Year: 2011
Issue Date: 6/30/2011
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: Markham Stouffville Hospital
Designated as Part 6 on Reference Plan 65R-18982. South of Church Street and wes Markham ON

Database:
CA

Certificate #: 7100-82ZMSB
Application Year: 2010
Issue Date: 3/1/2010
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: The Regional Municipality of York
York Durham Line West side of York Durham Line south of 4th Concession Rd and no Markham ON

Database:
CA

Certificate #: 1444-89QJJQ
Application Year: 2011
Issue Date: 2/8/2011

Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: **Markham Green Inc**
Part lots 5-8 Town of Markham ON

Database:
EBR

Year: 1998
EBR Registry No.: IA8E1403
Ministry Ref. No.:
Type: Instrument
Instrument Type: OWRA s. 53(1) - Approval for sewage works
Proposal Date: 10/6/98
Location: Town of Markham
Proponent Address: Markham Green Inc.120 Rougebank Drive,Markham, Ontario, L3S 4B7

Site: **Hwy 407 Markham ON**

Database:
EHS

Order No.: 20110920019
Report Date: 9/22/2011
Report Type: Custom Report
Search Radius (km): 0.05
Addit. Info Ordered:

Site: **DUTCHMASTER NURSERIES LTD.**
LOT 16, CONC. 6 PICKERING ON

Database:
GEN

Generator #: ON1401900
Approval Yrs: 92,93,97,98
SIC Code: 0163
SIC Description: NURSERY PRODUCTS

--- Details ---

Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

Site: **DUTCHMASTER NURSERIES LTD. 12-556**
CONC 6 LOT 16, SIDELINE 16 PICKERING ON

Database:
GEN

Generator #: ON1401900
Approval Yrs: 94,95,96
SIC Code: 0163
SIC Description: NURSERY PRODUCTS

--- Details ---

Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

Site: *DUTCHMASTER NURSERIES LTD.
CONC 6 LOT 16, SIDELINE 16 PICKERING ON*

Database:
GEN

Generator #: ON1401900
Approval Yrs: 90
SIC Code: 0163
SIC Description: NURSERY PRODUCTS

--- Details ---

Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

Site: *City of Toronto
Brock North Landfill Site Pickering ON*

Database:
GEN

Generator #: ON8471622
Approval Yrs: 06
SIC Code: 562990
SIC Description: All Other Waste Management Services

--- Details ---

Waste Code: 221
Waste Description: LIGHT FUELS

Site: *Markham Green Golf Club
Lot 6, Concession 8 Markham ON*

Database:
PTTW

Year: 2010
EBR Registry No.: 011-1547
Ministry Ref. No.: 6147-882QQU
Type: Instrument Proposal
Instrument Type: (OWRA s. 34) - Permit to take water
Proposal Date: October 29, 2010
Location: Lot 6, Concession 8, Town of Markham, Regional Municipality of York
Proponent Address: 120 Rouge Bank Drive Markham Ontario L3S 4B7

Site: *Markham Green Golf & Country Club
Markham Greens Golf Course Town of Markham ON*

Database:
PTTW

Year: 2000
EBR Registry No.: IA00E0321
Ministry Ref. No.:
Type: Instrument
Instrument Type: OWRA s. 34 - Permit to take water
Proposal Date: 2/10/00
Location: Markham Greens Golf Course,, OntarioTown of Markham
Proponent Address: Markham Green Golf & Country ClubP.O. Box 245,Markham, Ontario, L3P 3J7

Site: *Markham Green Golf & Country Club
Parts of Lot 5 Town of Markham ON*

Database:
PTTW

Year: 1997
EBR Registry No.: IA7E0971
Ministry Ref. No.:
Type: Instrument
Instrument Type: OWRA s. 34 - Permit to take water
Proposal Date: 6/30/97
Location: Town of Markham
Proponent Address: Markham Green Golf & Country ClubP.O. Box 245,Markham, Ontario, L3P 3J7

Site: **Markham Green Golf Club**
Lot 6, Concession 8 Markham ON

Database:
PTTW

Year: 2004
EBR Registry No.: IA04E1168
Ministry Ref. No.: 3367-63LL2G
Type: Instrument Decision
Instrument Type: Permit to take water - OWRA s. 34
Proposal Date:
Location: Lot 6, Concession 8 Markham
Proponent Address: 120 Rouge Bank Drive Markham Ontario L3S 4B7

Site: **Markham Green Golf Club**
Lot 6, Concession 8 Markham ON

Database:
PTTW

Year: 2010
EBR Registry No.: 011-1547
Ministry Ref. No.: 6147-882QQU
Type: Instrument Decision
Instrument Type: (OWRA s. 34) - Permit to take water
Proposal Date: October 29, 2010
Location: Lot 6, Concession 8, Town of Markham, Regional Municipality of York TOWN OF MARKHAM
Proponent Address: 120 Rouge Bank Drive, Markham Ontario, L3S 4B7

Site: **H.T.B. Truckers Inc.**
Highway 407 Markham ON

Database:
SPL

Ref No.: 0336-6RTSEF
Incident Dt: 7/18/2006
MOE Reported Dt: 7/18/2006
Contaminant Name: MOTOR OIL
Contaminant Quantity: Not Specified
Incident Summary: HTB truckers - Dump Truck roll-over, sm. amt. of oil to CB
Incident Cause: Overturn - Truck Or Trailer
Incident Reason: Equipment Failure - Malfunction of system components
Nature of Impact: Other Impact(s)
Receiving Medium: Land & Water
Environmental Impact: Not Anticipated

Site: **407 East Development Group**
407 East Construction Project N of Hwy #7 Pickering ON

Database:
SPL

Ref No.: 6766-9CQUNB
Incident Dt: 2013/10/22
MOE Reported Dt: 2013/10/22
Contaminant Name: HYDROCARBON LIGHT
Contaminant Quantity: 50 mL
Incident Summary: 407 East Construction: <50 mL hydrocarbon to ground, cntd
Incident Cause: Operator/Human error
Incident Reason: Operator/Human Error
Nature of Impact: Soil Contamination
Receiving Medium:
Environmental Impact: Not Anticipated

Site: **Turtle Island Recycling Co. Inc.**
South East corner of Markham Bypass at Highway 407<UNOFFICIAL> Markham ON

Database:
SPL

Ref No.: 5516-6AHNNN
Incident Dt: 3/15/2005
MOE Reported Dt: 3/15/2005
Contaminant Name: dog food waste
Contaminant Quantity:
Incident Summary: Turtle Island: dog food waste to Markham Bypass
Incident Cause: Other Discharges
Incident Reason: Equipment Failure
Nature of Impact: Soil Contamination
Receiving Medium: Land
Environmental Impact: Not Anticipated

Site: **hwy 7 and sideline 16 Pickering ON**

Database:
SPL

Ref No.: 6323-9A5VEX
Incident Dt: 2013/07/31
MOE Reported Dt: 2013/07/31
Contaminant Name: SILT
Contaminant Quantity: 1 other - see incident description
Incident Summary: MOE TIPS: Silt to Brougham Crk.
Incident Cause: Other
Incident Reason: Berm/Dyke Failure
Nature of Impact: Other Impact(s); Surface Water Pollution
Receiving Medium:
Environmental Impact: Confirmed

Site: **4 Refuel Canada Ltd.<UNOFFICIAL>**
Highway 407 Markham ON

Database:
SPL

Ref No.: 0184-6ND4ZV
Incident Dt: 3/29/2006
MOE Reported Dt: 3/29/2006
Contaminant Name: DIESEL FUEL
Contaminant Quantity: 10 L
Incident Summary: Hwy 407 Diesel Spill of <10L onto gravel shoulder
Incident Cause: Pipe Or Hose Leak
Incident Reason: Spill
Nature of Impact: Soil Contamination
Receiving Medium: Land
Environmental Impact: Confirmed

Site: **Royal Side Paving Inc.<UNOFFICIAL>**
Highway 407 Markham ON

Database:
SPL

Ref No.: 5045-75QGFB
Incident Dt:
MOE Reported Dt: 8/3/2007
Contaminant Name: DIESEL FUEL
Contaminant Quantity: 20 L
Incident Summary: Royal Side Paving: diesel & tar to ramp fr dump truck
Incident Cause: Other Transport Accident
Incident Reason:
Nature of Impact: Soil Contamination
Receiving Medium: Land

Environmental Impact: Confirmed

Site:
East Side of Sideline 24, North of Concession 8 ON

Database:
TCFT

ID Num: 614445
Facility Name: Agricultural
Capacity (L):
Fuel Type:
Tank Removed:
Tank Type:
Tank Age:
Tank Status:
Tank Location:
Original Address: East Side of Sideline 24, North of Concession 8

Site:
York Durham Line & Railroad ON

Database:
TCFT

ID Num: 614288.1
Facility Name: Land Only
Capacity (L):
Fuel Type:
Tank Removed:
Tank Type:
Tank Age:
Tank Status:
Tank Location:
Original Address: York Durham Line & Railroad

Site:
York Durham Line & Railroad ON

Database:
TCFT

ID Num: 614288.2
Facility Name: Agricultural
Capacity (L):
Fuel Type:
Tank Removed:
Tank Type:
Tank Age:
Tank Status:
Tank Location:
Original Address: York Durham Line & Railroad

Site:
Westside of York Durham Line, South of Major Mackenzie Blvd. ON

Database:
TCFT

ID Num: 614100
Facility Name: Agricultural
Capacity (L):
Fuel Type:
Tank Removed:
Tank Type:
Tank Age:
Tank Status:
Tank Location:

Original Address: Westside of York Durham Line, South of Major Mackenzie Blvd.

Site:
West Side of York Durham Line, South of Major Mackenzie Blvd. ON

Database:
TCFT

ID Num: 614107
Facility Name: Agricultural
Capacity (L):
Fuel Type:
Tank Removed:
Tank Type:
Tank Age:
Tank Status:
Tank Location:
Original Address: West Side of York Durham Line, South of Major Mackenzie Blvd.

Site:
West Side of Sideline 24, South of Uxbridge Pickering Townline ON

Database:
TCFT

ID Num: 614558
Facility Name: Agricultural
Capacity (L):
Fuel Type:
Tank Removed:
Tank Type:
Tank Age:
Tank Status:
Tank Location:
Original Address: West Side of Sideline 24, South of Uxbridge Pickering Townline

Site:
West Side of Sideline 24, South of Uxbridge Pickering Townline ON

Database:
TCFT

ID Num: 614559
Facility Name: Agricultural
Capacity (L):
Fuel Type:
Tank Removed:
Tank Type:
Tank Age:
Tank Status:
Tank Location:
Original Address: West Side of Sideline 24, South of Uxbridge Pickering Townline

Site:
West Side of Sideline 24, South of Uxbridge Pickering Townline ON

Database:
TCFT

ID Num: 614557
Facility Name: Agricultural
Capacity (L):
Fuel Type:
Tank Removed:
Tank Type:
Tank Age:
Tank Status:
Tank Location:

Original Address: West Side of Sideline 24, South of Uxbridge Pickering Townline

Site:
West Side of Sideline 24, North of Regional Rd 5 ON

Database:
TCFT

ID Num: 614553.1
Facility Name: Commercial
Capacity (L): Unknown
Fuel Type: Sanitary Waste
Tank Removed:
Tank Type: UST
Tank Age: Unknown
Tank Status: Septic System / Inactive
Tank Location: West of house
Original Address: West Side of Sideline 24, North of Regional Rd 5

Site:
West Side of Sideline 24, North of Regional Rd 5 ON

Database:
TCFT

ID Num: 614553.1
Facility Name: Commercial
Capacity (L): 910
Fuel Type: Heating Oil
Tank Removed:
Tank Type: AST - HORIZONTAL
Tank Age: 1974
Tank Status: Supply Fuel for Furnace (Home) / Inactive
Tank Location: Basement - North Room, Southeast Corner
Original Address: West Side of Sideline 24, North of Regional Rd 5

Site:
West Side of Sideline 24, North of Regional Rd 5 ON

Database:
TCFT

ID Num: 614555
Facility Name: Agricultural
Capacity (L):
Fuel Type:
Tank Removed:
Tank Type:
Tank Age:
Tank Status:
Tank Location:
Original Address: West Side of Sideline 24, North of Regional Rd 5

Site:
West Side of Sideline 24, North of Regional Rd 5 ON

Database:
TCFT

ID Num: 614553.2
Facility Name: Agricultural
Capacity (L):
Fuel Type:
Tank Removed:
Tank Type:
Tank Age:
Tank Status:
Tank Location:

Original Address: West Side of Sideline 24, North of Regional Rd 5

Site:
West Side of Sideline 24, North of Regional Rd 5 ON

Database:
TCFT

ID Num: 614553.1
Facility Name: Commercial
Capacity (L): 910
Fuel Type: Heating Oil
Tank Removed:
Tank Type: AST - HORIZONTAL
Tank Age: 2001 / 2002
Tank Status: Supply Fuel for Furnace (Home) /
Tank Location: Basement - North Room, Southeast Corner
Original Address: West Side of Sideline 24, North of Regional Rd 5

Site:
West Side of Sideline 24, North of Concession 7 ON

Database:
TCFT

ID Num: 614350
Facility Name: Agricultural
Capacity (L):
Fuel Type:
Tank Removed:
Tank Type:
Tank Age:
Tank Status:
Tank Location:
Original Address: West Side of Sideline 24, North of Concession 7

Site:
Southeast Corner of York Durham Line & Regional Rd. 5 ON

Database:
TCFT

ID Num: 614532
Facility Name: Agricultural
Capacity (L): 900 L
Fuel Type: Heating Oil
Tank Removed:
Tank Type: AST - HORIZONTAL
Tank Age: unknown
Tank Status: Furnace Oil Storage / Unknown
Tank Location: Basement
Original Address: Southeast Corner of York Durham Line & Regional Rd. 5

Site:
Southeast Corner of York Durham Line & Concession 8 ON

Database:
TCFT

ID Num: 614423
Facility Name: Agricultural
Capacity (L):
Fuel Type:
Tank Removed:
Tank Type:
Tank Age:
Tank Status:
Tank Location:

Original Address: Southeast Corner of York Durham Line & Concession 8

Site: Southeast Corner of Uxbridge Pickering Townline & Sideline 24 ON

Database:
TCFT

ID Num: 614551.2
Facility Name: Agricultural
Capacity (L):
Fuel Type:
Tank Removed:
Tank Type:
Tank Age:
Tank Status:
Tank Location:
Original Address: Southeast Corner of Uxbridge Pickering Townline & Sideline 24

Site: Southeast Corner of Sideline 24 & Regional Rd 5 (Railroad Cuts Through) ON

Database:
TCFT

ID Num: 614449
Facility Name: Agricultural
Capacity (L):
Fuel Type:
Tank Removed:
Tank Type:
Tank Age:
Tank Status:
Tank Location:
Original Address: Southeast Corner of Sideline 24 & Regional Rd 5 (Railroad Cuts Through)

Site: Southeast Corner of Intersection of Sideline 24 & 8th Concession ON

Database:
TCFT

ID Num: 614739
Facility Name: Cemetery
Capacity (L):
Fuel Type:
Tank Removed:
Tank Type:
Tank Age:
Tank Status:
Tank Location:
Original Address: Southeast Corner of Intersection of Sideline 24 & 8th Concession

Site: Southeast Corner of Concession 7 & York Durham Line ON

Database:
TCFT

ID Num: 614299
Facility Name: Agricultural
Capacity (L):
Fuel Type:
Tank Removed:
Tank Type:
Tank Age:
Tank Status:
Tank Location:

Original Address: Southeast Corner of Concession 7 & York Durham Line

Site: **South Side of Uxbridge Pickering Towline, West of Sideline 24 ON**

Database:
TCFT

ID Num: 614562
Facility Name: Agricultural
Capacity (L):
Fuel Type:
Tank Removed:
Tank Type:
Tank Age:
Tank Status:
Tank Location:
Original Address: South Side of Uxbridge Pickering Towline, West of Sideline 24

Site: **South Side of Major Mackenzie Blvd, West of York Durham Line ON**

Database:
TCFT

ID Num: 614105
Facility Name: Agricultural
Capacity (L):
Fuel Type:
Tank Removed:
Tank Type:
Tank Age:
Tank Status:
Tank Location:
Original Address: South Side of Major Mackenzie Blvd, West of York Durham Line

Site: **South Side of Concession 8, East of Sideline 24 ON**

Database:
TCFT

ID Num: 614348
Facility Name: Agricultural
Capacity (L):
Fuel Type:
Tank Removed:
Tank Type:
Tank Age:
Tank Status:
Tank Location:
Original Address: South Side of Concession 8, East of Sideline 24

Site: **South Side of Concession 8, East of Sideline 24 ON**

Database:
TCFT

ID Num: 614349
Facility Name: Agricultural
Capacity (L):
Fuel Type:
Tank Removed:
Tank Type:
Tank Age:
Tank Status:
Tank Location:

Original Address: South Side of Concession 8, East of Sideline 24

Site:
Northwest corner of Sideline 24 & Concession 8 ON

Database:
TCFT

ID Num: 614452
Facility Name: Agricultural
Capacity (L):
Fuel Type:
Tank Removed:
Tank Type:
Tank Age:
Tank Status:
Tank Location:
Original Address: Northwest corner of Sideline 24 & Concession 8

Site:
Northwest Corner of Regional Rd 5 & Sideline 24 ON

Database:
TCFT

ID Num: 614552
Facility Name: Agricultural
Capacity (L):
Fuel Type:
Tank Removed:
Tank Type:
Tank Age:
Tank Status:
Tank Location:
Original Address: Northwest Corner of Regional Rd 5 & Sideline 24

Site:
Northwest Corner of Major Mackenzie Blvd and York Durham Line ON

Database:
TCFT

ID Num: 614109
Facility Name: Agricultural
Capacity (L):
Fuel Type:
Tank Removed:
Tank Type:
Tank Age:
Tank Status:
Tank Location:
Original Address: Northwest Corner of Major Mackenzie Blvd and York Durham Line

Site:
Northeast Corner of sideline 24 & Concession 8 ON

Database:
TCFT

ID Num: 614443
Facility Name: Agricultural
Capacity (L):
Fuel Type:
Tank Removed:
Tank Type:
Tank Age:
Tank Status:
Tank Location:

Original Address: Northeast Corner of sideline 24 & Concession 8

Site:
Northwest Corner of York Durham Line & Concession 8 ON

Database:
TCFT

ID Num: 614506
Facility Name: Agricultural
Capacity (L):
Fuel Type:
Tank Removed:
Tank Type:
Tank Age:
Tank Status:
Tank Location:
Original Address: Northeast Corner of York Durham Line & Concession 8

Site:
North Side of Regional Rd 5, West of Sideline 24 ON

Database:
TCFT

ID Num: 614554
Facility Name: Agricultural
Capacity (L):
Fuel Type:
Tank Removed:
Tank Type:
Tank Age:
Tank Status:
Tank Location:
Original Address: North Side of Regional Rd 5, West of Sideline 24

Site:
North Side of Hwy 7 & West of Sideline 24 ON

Database:
TCFT

ID Num: 614239.1
Facility Name: Agricultural
Capacity (L):
Fuel Type:
Tank Removed:
Tank Type:
Tank Age:
Tank Status:
Tank Location:
Original Address: North Side of Hwy 7 & West of Sideline 24

Site:
North Side of Concession, East of York Durham Line & Concession 8 ON

Database:
TCFT

ID Num: 614505
Facility Name: Land Only
Capacity (L): Unknown
Fuel Type: Sanitary Waste
Tank Removed:
Tank Type: UST
Tank Age: Unknown
Tank Status: Septic System / Inactive
Tank Location: Northwest of the House

Original Address: North Side of Concession, East of York Durham Line & Concession 8

Site:
North Side of Concession 8, East of Sideline 24 ON

Database:
TCFT

ID Num: 614442
Facility Name: Agricultural
Capacity (L):
Fuel Type:
Tank Removed:
Tank Type:
Tank Age:
Tank Status:
Tank Location:
Original Address: North Side of Concession 8, East of Sideline 24

Site:
North Side of Concession 8, East of Sideline 24 ON

Database:
TCFT

ID Num: 614444.1
Facility Name: Agricultural
Capacity (L):
Fuel Type:
Tank Removed:
Tank Type:
Tank Age:
Tank Status:
Tank Location:
Original Address: North Side of Concession 8, East of Sideline 24

Site:
East Side of York Durham Line, South of Regional Rd. 5 ON

Database:
TCFT

ID Num: 614527
Facility Name: Agricultural
Capacity (L):
Fuel Type:
Tank Removed:
Tank Type:
Tank Age:
Tank Status:
Tank Location:
Original Address: East Side of York Durham Line, South of Regional Rd. 5

Site:
East Side of York Durham Line, South of Regional Rd. 5 ON

Database:
TCFT

ID Num: 614530
Facility Name: Agricultural
Capacity (L):
Fuel Type:
Tank Removed:
Tank Type:
Tank Age:
Tank Status:
Tank Location:

Original Address: East Side of York Durham Line, South of Regional Rd. 5

Site:
East Side of York Durham Line, South of Regional Rd. 5 ON

Database:
TCFT

ID Num: 614529
Facility Name: Agricultural
Capacity (L):
Fuel Type:
Tank Removed:
Tank Type:
Tank Age:
Tank Status:
Tank Location:
Original Address: East Side of York Durham Line, South of Regional Rd. 5

Site:
East Side of York Durham Line, South of Concession 8 ON

Database:
TCFT

ID Num: 614420
Facility Name: Agricultural
Capacity (L):
Fuel Type:
Tank Removed:
Tank Type:
Tank Age:
Tank Status:
Tank Location:
Original Address: East Side of York Durham Line, South of Concession 8

Site:
East Side of York Durham Line, South of Concession 8 ON

Database:
TCFT

ID Num: 614422
Facility Name: Agricultural
Capacity (L):
Fuel Type:
Tank Removed:
Tank Type:
Tank Age:
Tank Status:
Tank Location:
Original Address: East Side of York Durham Line, South of Concession 8

Site:
East Side of York Durham Line, South of Concession 7 ON

Database:
TCFT

ID Num: 614297
Facility Name: Land Only
Capacity (L):
Fuel Type:
Tank Removed:
Tank Type:
Tank Age:
Tank Status:
Tank Location:

Original Address: East Side of York Durham Line, South of Concession 7

Site:
East Side of York Durham Line, North of Regional Rd 5 ON

Database:
TCFT

ID Num: 614641
Facility Name: Agricultural
Capacity (L):
Fuel Type:
Tank Removed:
Tank Type:
Tank Age:
Tank Status:
Tank Location:
Original Address: East Side of York Durham Line, North of Regional Rd 5

Site:
East Side of York Durham Line, North of Railroad Tracks ON

Database:
TCFT

ID Num: 614296
Facility Name: Land Only
Capacity (L):
Fuel Type:
Tank Removed:
Tank Type:
Tank Age:
Tank Status:
Tank Location:
Original Address: East Side of York Durham Line, North of Railroad Tracks

Site:
East Side of York Durham Line, North of Concession 8 ON

Database:
TCFT

ID Num: 614525
Facility Name: Land Only
Capacity (L):
Fuel Type:
Tank Removed:
Tank Type:
Tank Age:
Tank Status:
Tank Location:
Original Address: East Side of York Durham Line, North of Concession 8

Site:
East Side of York Durham Line, North of Concession 8 ON

Database:
TCFT

ID Num: 614526
Facility Name: Land Only
Capacity (L):
Fuel Type:
Tank Removed:
Tank Type:
Tank Age:
Tank Status:
Tank Location:

Original Address: East Side of York Durham Line, North of Concession 8

Site:
East Side of Sideline 24, South of Uxbridge Pickering Townline ON

Database:
TCFT

ID Num: 614550
Facility Name: Agricultural
Capacity (L):
Fuel Type:
Tank Removed:
Tank Type:
Tank Age:
Tank Status:
Tank Location:
Original Address: East Side of Sideline 24, South of Uxbridge Pickering Townline

Site:
East Side of Sideline 24, South of Concession 8 ON

Database:
TCFT

ID Num: 614345
Facility Name: Agricultural
Capacity (L):
Fuel Type:
Tank Removed:
Tank Type:
Tank Age:
Tank Status:
Tank Location:
Original Address: East Side of Sideline 24, South of Concession 8

Site:
East Side of Sideline 24, South of Concession 8 ON

Database:
TCFT

ID Num: 614347.2
Facility Name: Agricultural
Capacity (L):
Fuel Type:
Tank Removed:
Tank Type:
Tank Age:
Tank Status:
Tank Location:
Original Address: East Side of Sideline 24, South of Concession 8

Site:
East Side of Sideline 24, South of Concession 8 ON

Database:
TCFT

ID Num: 614344
Facility Name: Agricultural
Capacity (L):
Fuel Type:
Tank Removed:
Tank Type:
Tank Age:
Tank Status:
Tank Location:

Original Address: East Side of Sideline 24, South of Concession 8

Site:
East Side of Sideline 24, South of Concession 8 ON

Database:
TCFT

ID Num: 614346
Facility Name: Agricultural
Capacity (L):
Fuel Type:
Tank Removed:
Tank Type:
Tank Age:
Tank Status:
Tank Location:
Original Address: East Side of Sideline 24, South of Concession 8

Site:
East Side of Sideline 24, South of Concession 8 ON

Database:
TCFT

ID Num: 614347.1
Facility Name: Agricultural
Capacity (L):
Fuel Type:
Tank Removed:
Tank Type:
Tank Age:
Tank Status:
Tank Location:
Original Address: East Side of Sideline 24, South of Concession 8

Site:
East Side of Sideline 24, North of Concession 8 ON

Database:
TCFT

ID Num: 614343
Facility Name: Agricultural
Capacity (L):
Fuel Type:
Tank Removed:
Tank Type:
Tank Age:
Tank Status:
Tank Location:
Original Address: East Side of Sideline 24, North of Concession 8

Site:
East Side of Sideline 24, North of Concession 8 ON

Database:
TCFT

ID Num: 614448
Facility Name: Agricultural
Capacity (L):
Fuel Type:
Tank Removed:
Tank Type:
Tank Age:
Tank Status:
Tank Location:

Original Address: East Side of Sideline 24, North of Concession 8

Site:
East Side of Sideline 24, North of Concession 8 ON

Database:
TCFT

ID Num: 614447
Facility Name: Agricultural
Capacity (L):
Fuel Type:
Tank Removed:
Tank Type:
Tank Age:
Tank Status:
Tank Location:
Original Address: East Side of Sideline 24, North of Concession 8

Site:
East Side of Sideline 24, North of Concession 8 ON

Database:
TCFT

ID Num: 614446
Facility Name: Agricultural
Capacity (L):
Fuel Type:
Tank Removed:
Tank Type:
Tank Age:
Tank Status:
Tank Location:
Original Address: East Side of Sideline 24, North of Concession 8

Site:
York Durham Line & Railroad ON

Database:
TCFT

ID Num: 614293
Facility Name: Agricultural
Capacity (L):
Fuel Type:
Tank Removed:
Tank Type:
Tank Age:
Tank Status:
Tank Location:
Original Address: York Durham Line & Railroad

Site:
East Side of Sideline 24, North of Concession 7 ON

Database:
TCFT

ID Num: 614342
Facility Name: Land Only
Capacity (L):
Fuel Type:
Tank Removed:
Tank Type:
Tank Age:
Tank Status:
Tank Location:

Site:		Database:	
Markham ON		WWIS	
Well ID:	7105801	Lot:	
Concession:		Concession	
County:	YORK	Name:	
Easting Nad83:		Municipality:	MARKHAM TOWN (MARKHAM TWP)
Zone:		Northing	
Primary Water Use:	Not Used	Nad83:	
Sec. Water Use:		Utm Reliability:	unknown UTM
Pump Rate:		Construction	16-NOV-07
Flow Rate:		Date:	
Specific Capacity:		Well Depth:	30 ft
Construction Method:	Boring	Static Water	
Elevation (m):		Level:	
Depth to Bedrock:		Clear/Cloudy:	
Water Type:		Final Well	Test Hole
		Status:	
		Flowing (y/n):	
		Elevation	
		Reliability:	
		Overburden/Bedrock:	
		Casing	
		Material:	
--- Details ---			
Thickness:	BROWN	Original Depth:	4 ft
Material Colour:	TOPSOIL, PEAT	Material:	4 ft
+			
Thickness:	GREY	Original Depth:	30 ft
Material Colour:	SILT, SAND	Material:	26 ft

Site:		Database:	
Markham ON		WWIS	
Well ID:	7122268	Lot:	
Concession:		Concession	
County:	YORK	Name:	
Easting Nad83:	642315	Municipality:	MARKHAM TOWN (MARKHAM TWP)
Zone:	17	Northing	4863545
Primary Water Use:	Monitoring	Nad83:	
Sec. Water Use:		Utm Reliability:	unknown UTM
Pump Rate:		Construction	17-APR-09
Flow Rate:		Date:	
Specific Capacity:		Well Depth:	
Construction Method:	Auger	Static Water	8.5 m
Elevation (m):	200.35	Level:	
Depth to Bedrock:		Clear/Cloudy:	
Water Type:	FRESH	Final Well	Abandoned-Other
		Status:	
		Flowing (y/n):	
		Elevation	
		Reliability:	
		Overburden/Bedrock:	
		Casing	Not stated, SULPHUR
		Material:	

Site:
Markham ON

Database:
WWIS

Well ID: 7105802
Concession:

County: YORK
Easting Nad83:

Zone:
Primary Water Use: Monitoring

Sec. Water Use:
Pump Rate:

Flow Rate:
Specific Capacity:

Construction Method: Boring
Elevation (m):

Depth to Bedrock:

Water Type:

Lot:
Concession
Name:
Municipality: MARKHAM TOWN (MARKHAM TWP)
Northing
Nad83:
Utm Reliability: unknown UTM
Construction: 07-NOV-07
Date:
Well Depth: 60 ft
Static Water
Level:
Clear/Cloudy:
Final Well: Test Hole
Status:
Flowing (y/n):
Elevation
Reliability:
Overburden/Bedrock:
Casing
Material:

--- Details ---

Thickness: BROWN
Material Colour: SAND, SILT, PACKED

+
Thickness: GREY
Material Colour: TILL, SILT, CLAY

Original Depth: 15 ft
Material: 15 ft

Original Depth: 60 ft
Material: 45 ft

Appendix: Database Descriptions

Ecolog Environmental Risk Information Services Ltd 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 Ecolog 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 AAGR

The MAAP Program maintains a database of all 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 Aug 2012

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-Jan 2014

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 all 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: 2001-Jul 2014

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: 1948-2014

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: 1992, 1999-Jul 2014

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-Feb 2014

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-May 2015

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 MNM. 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-Jan 2014

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 31 2011-Apr 2015

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-May 2015

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 31, 2011-Apr 2015

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](#)

EcoLog 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 2014

Environmental Issues Inventory System:

Federal EIS

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 EIS 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**

List of TSSA Expired Facilities:

Provincial EXP

This is a list of all expired facilities that fall under the TSSA (TSSA Act & Safety Regulations), including the six regulations that exist under the Fuels Safety Division. It will include facilities such as private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc. These tanks have been removed and automatically fall under the expired facilities inventory held by TSSA.

Government Publication Date: Current to Nov 2014

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 all 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: June 2000-Apr 2015

Fisheries & Oceans Fuel Tanks:

Federal FOFT

Fisheries & Oceans Canada maintains an inventory of all 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-Sept 2003

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: 2010-Nov 2014

Fuel Storage Tank - Historic:

Provincial FSTH

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: 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-Apr 2014

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 all 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: June 2009-2014

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: 2012

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-Apr 2013

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: 1994-2012

National Defence & Canadian Forces Fuel Tanks:

Federal NDFT

The Department of National Defence 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 Defence & Canadian Forces Spills:

Federal NDSP

The Department of National Defence 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 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 all 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. All federal out-of-service PCB containing equipment and all 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: 1993-2013

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-Mar 2015

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: 1800-2013

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

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-May 2015

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 all 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 Environment maintains a database of all manufacturers and vendors of registered pesticides.

Government Publication Date: 1988-Jun 2013

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: June 2009-2014

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-May 2015

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: 1986-2013

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-Mar 2015

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-Jul 2014

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-Feb 2014

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: 1990-2011

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-Mar 2007

TSSA Variances for Abandonment of Underground Storage Tanks:

Provincial VAR

The TSSA, Under the Liquid Fuels Handling Code and the Fuel Oil Code, all underground storage tanks must be removed within two years of disuse. If removal of a tank is not feasible, you may apply to seek a variance from this code requirement. This is a list of all variances granted for abandoned tanks.

Government Publication Date: Current to Nov 2014

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: 1970-Apr 2015

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: 1955-Mar 2014

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.

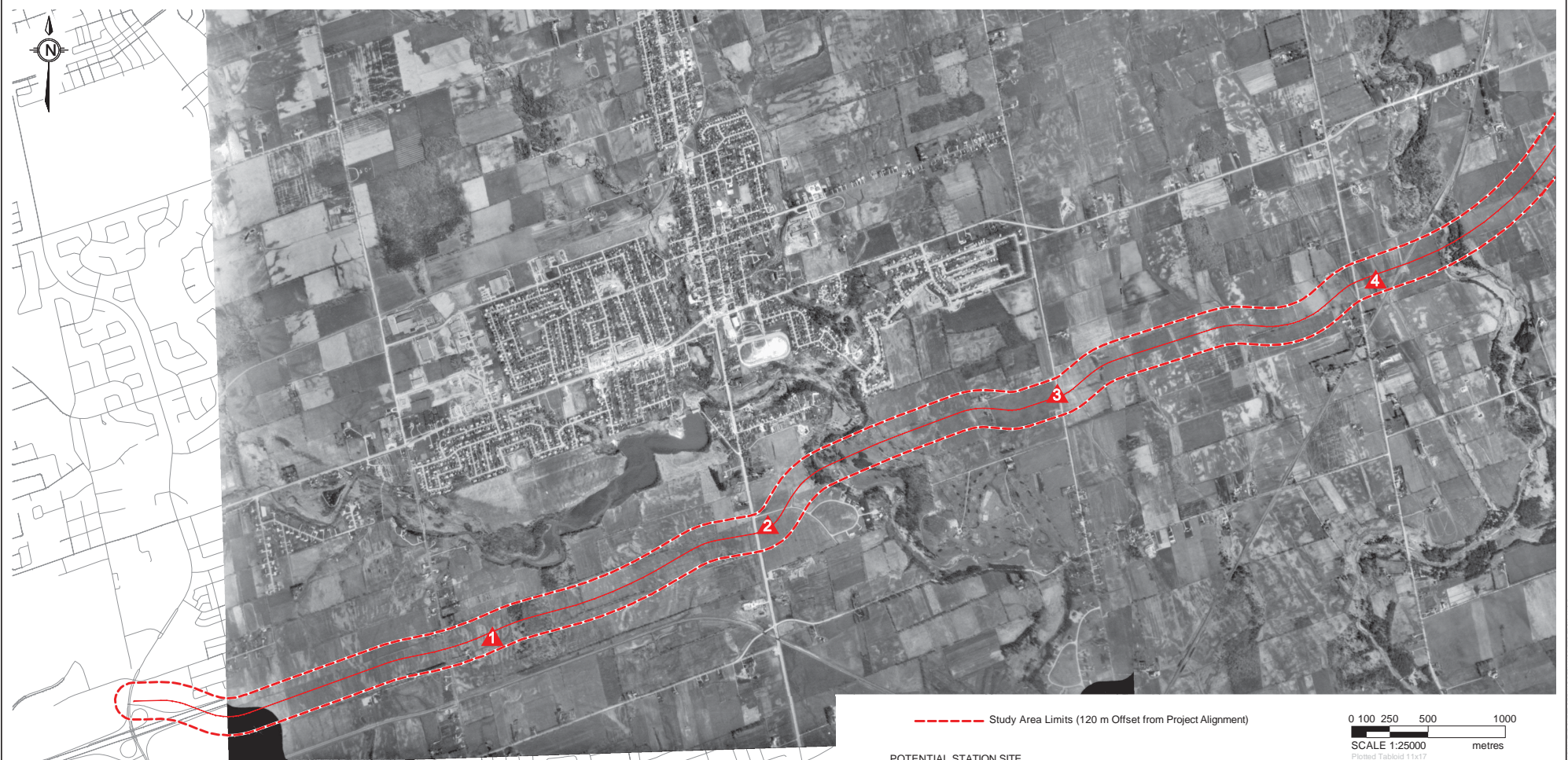
The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

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 were included as reference.



APPENDIX D

Aerial Photographs



----- Study Area Limits (120 m Offset from Project Alignment)

0 100 250 500 1000
SCALE 1:25000 metres
Photos: Tableau 11x17

POTENTIAL STATION SITE

- | | | | |
|--|--------------------------------------|--|------------------------------------------|
| | McGowan Road | | York Durham Line |
| | Markham Road | | Whites Road (Sideline 26) |
| | Ninth Line | | Dixie Road / Rossland Road (Sideline 22) |
| | Donald Cousens Parkway / Ressor Road | | Brock Road |

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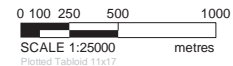
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TITLE
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WEST

PROJECT No.	Phase	Rev.	Figure
14-1181-0001	-	AC	D-1A



----- Study Area Limits (120 m Offset from Project Alignment)



POTENTIAL STATION SITE

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|--|--------------------------------------|--|------------------------------------------|
| | McGowan Road | | York Durham Line |
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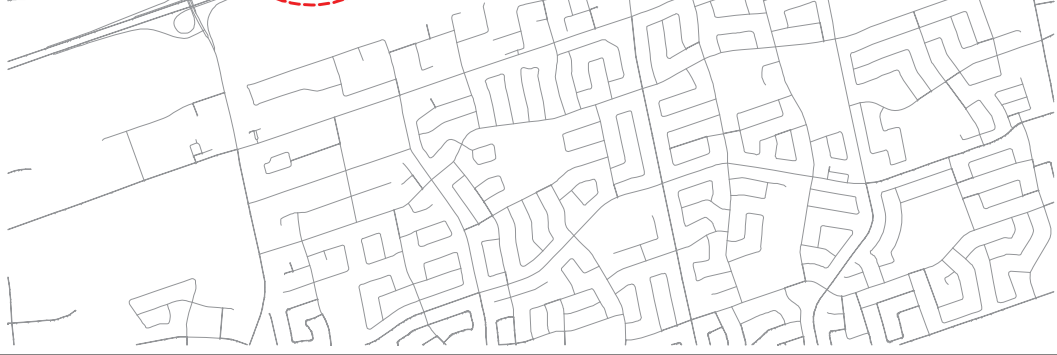
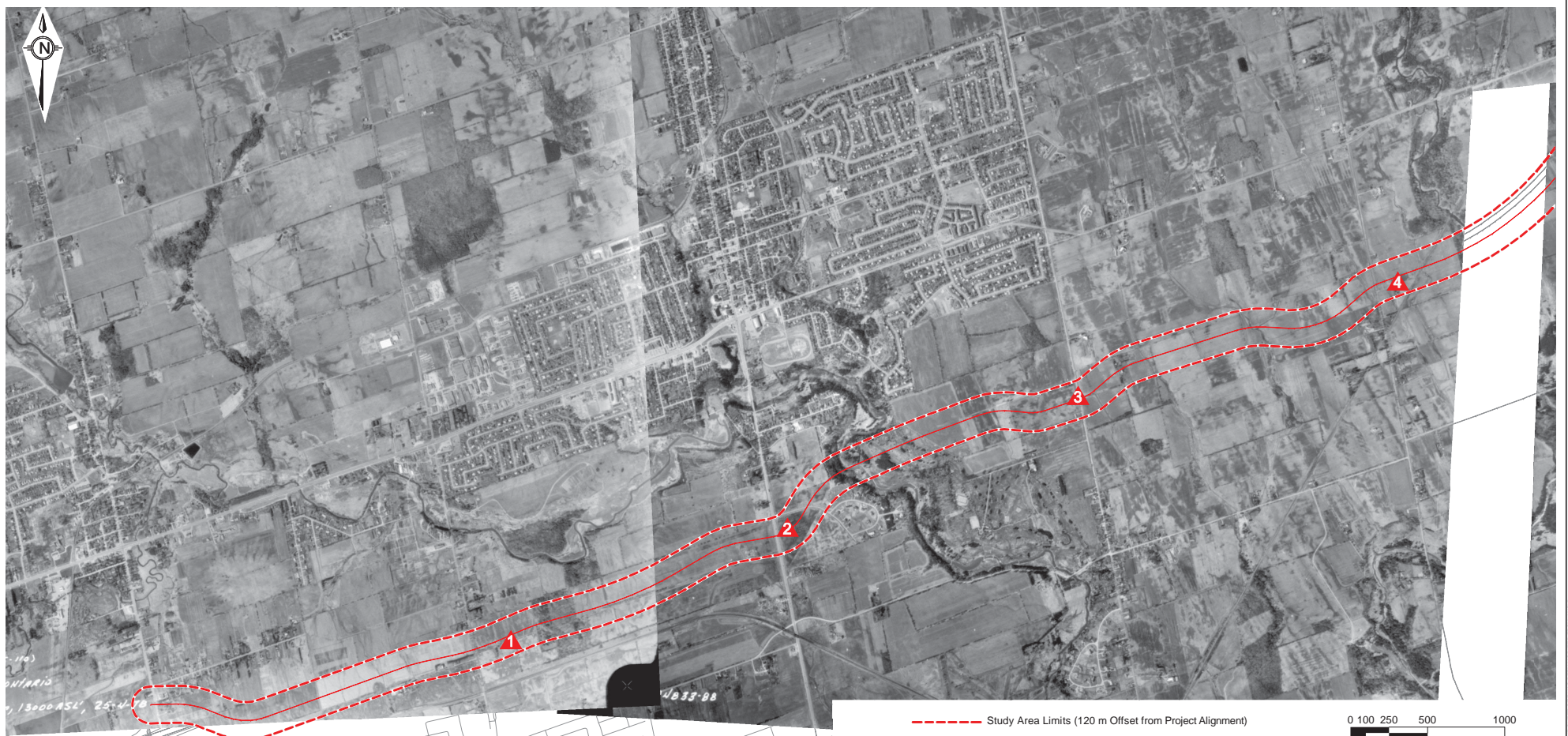
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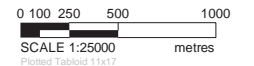
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 Plot Scale: 1:25000
 Plot Size: 11x17 inches

IF THIS REQUIREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET IS TO BE MODIFIED FROM ANS B



--- Study Area Limits (120 m Offset from Project Alignment)



POTENTIAL STATION SITE

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|--|--------------------------------------|--|------------------------------------------|
| | McGowan Road | | York Durham Line |
| | Markham Road | | Whites Road (Sideline 26) |
| | Ninth Line | | Dixie Road / Rossland Road (Sideline 22) |
| | Donald Cousens Parkway / Ressor Road | | Brock Road |

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WEST

PROJECT No. 14-1181-0001

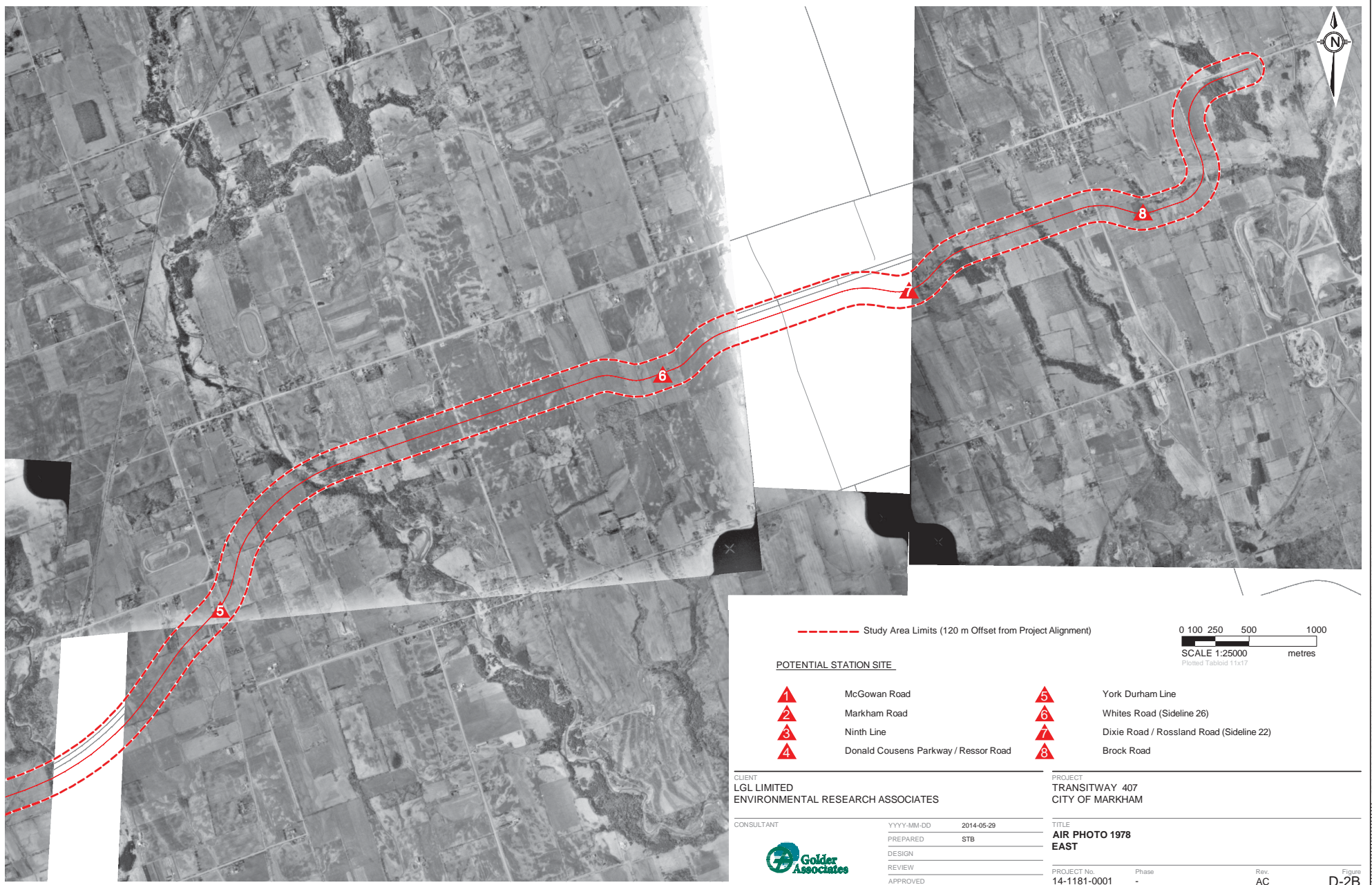
Phase -

Rev. AC

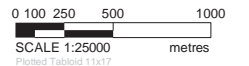
Figure D-2A

From: Toronto, Google Earth, 2014-05-29 11:14:11 AM, 13000 ASL, 25.4 m

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--- Study Area Limits (120 m Offset from Project Alignment)



POTENTIAL STATION SITE

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| | McGowan Road | | York Durham Line |
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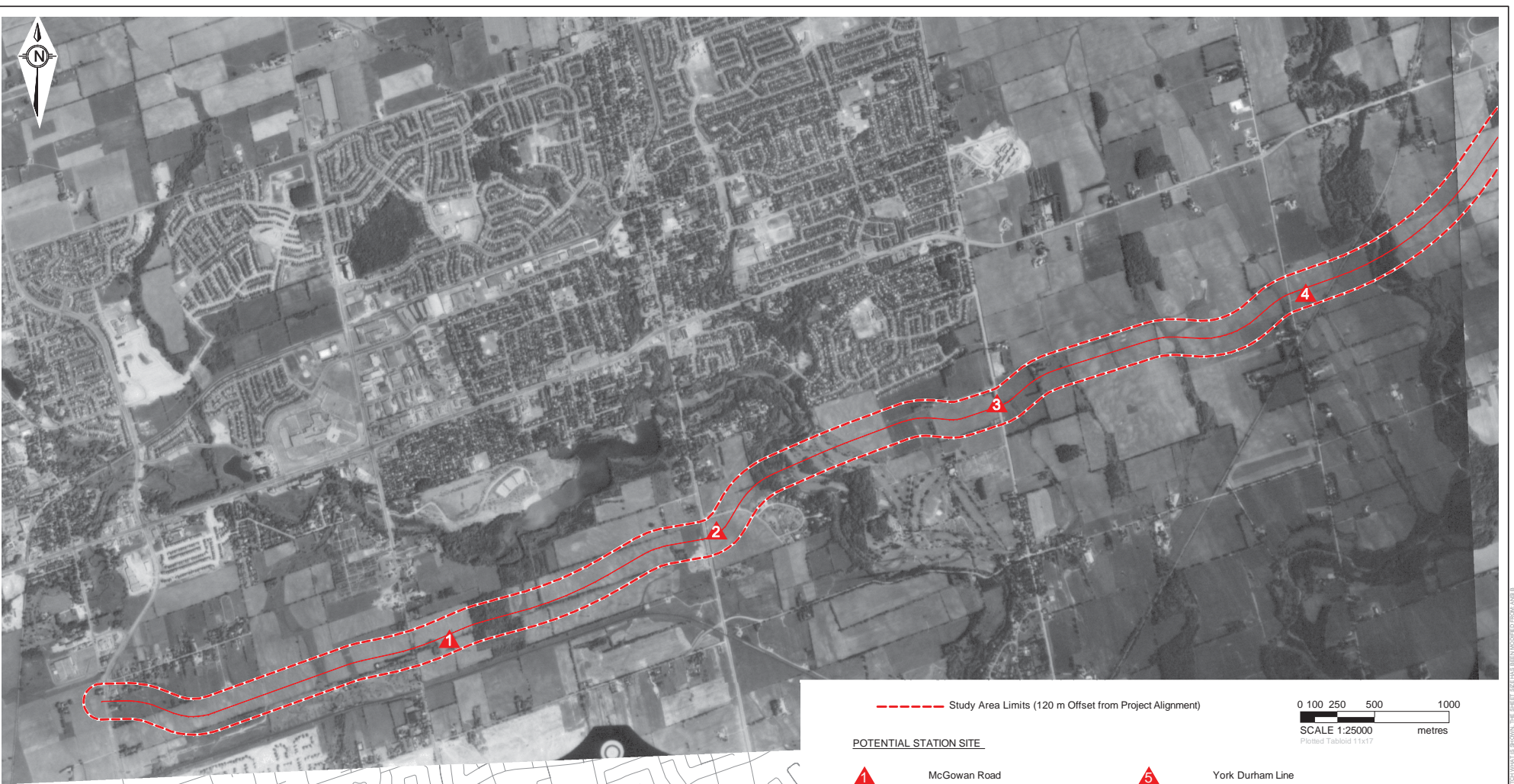
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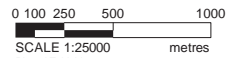
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--- Study Area Limits (120 m Offset from Project Alignment)



POTENTIAL STATION SITE

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| ▲1 | McGowan Road | ▲5 | York Durham Line |
| ▲2 | Markham Road | ▲6 | Whites Road (Sideline 26) |
| ▲3 | Ninth Line | ▲7 | Dixie Road / Rossland Road (Sideline 22) |
| ▲4 | Donald Cousens Parkway / Ressor Road | ▲8 | Brock Road |



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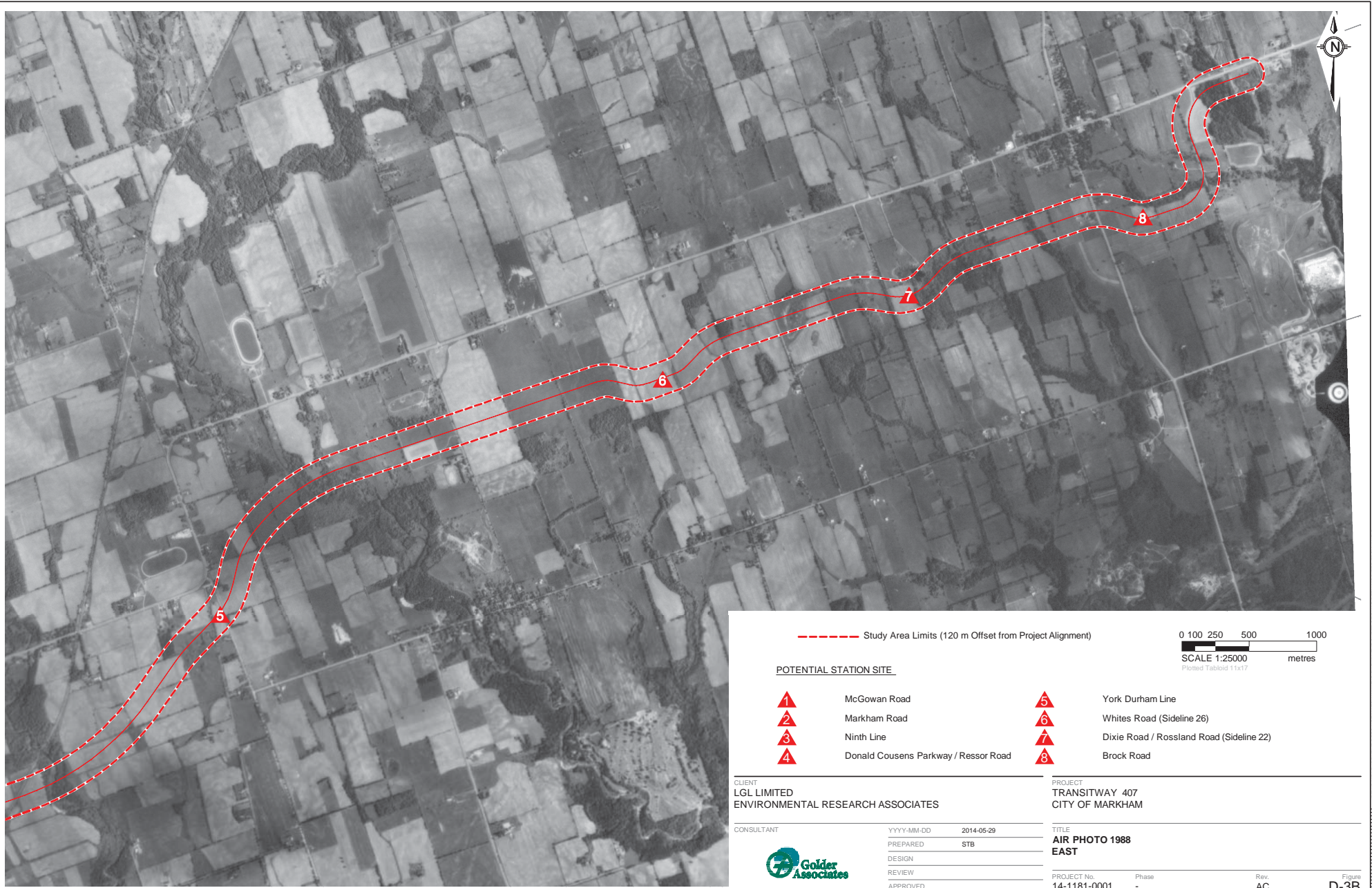
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----- Study Area Limits (120 m Offset from Project Alignment)



POTENTIAL STATION SITE

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|--|--------------------------------------|--|------------------------------------------|
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TITLE
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PROJECT No.	Phase	Rev.	Figure
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