

Stage 1 & 2 Archaeological Assessment

1444-1458 Cawthra Road Part of Lots 188, 189, 190 & 191 Registered Plan B-19 City of Mississauga Toronto Township Regional Municipality of Peel

Prepared for: 2530173 Ontario Corporation c/o Ryan Atkinson 17 B Cosmo Road Etobicoke, ON M8X 1Z3

Licensee: Anthony Butler PIF: P310-0174-2018 Original Report



Earthworks Archaeological Services Inc. 2365 Watts Road, Haliburton, Ontario KOM 1SO

June 2, 2018

Executive Summary

Earthworks Archaeological Services Inc. was retained to conduct a Stage 1 & 2 archaeological assessment of a 0.53 hectare area located at 1444-1458 Cawthra Road, part of Lots 188,189,190,191 of Registered Plan B-19, City of Mississauga, Regional Municipality of Peel, historically part of Lot 11, Concession 2 South of Dundas Street, Geographic Township of Toronto, Peel County, Ontario. The assessment is undertaken as part of a site development application and was conducted as part of the requirements defined in Section 19.45 of the *City of Mississauga Official Plan*, which requires an archaeological assessment as part of an application submission.

The study area contains evidence of archaeological potential. The location of the study area in close proximity to a historically mapped watercourse suggests there is potential for Pre-Contact Aboriginal archaeological material to be identified and recovered. Additionally, the location of the study area at the edge of a historic transportation route suggests there is potential for locating historic Euro-Canadian material. In summary, a Stage 2 archaeological assessment was determined to be required in order to identify and document any archaeological material that may be present. The inaccessibility of the study area to any form of ploughing equipment precluded the possibility of ploughing for a pedestrian survey, and as a result, a test pitting survey was determined to be required.

The Stage 2 archaeological assessment of the study area was conducted on May 24, 2018 under PIF #: P310-0174-2018, issued to Anthony Butler, M.Sc. (P310). The weather during the survey was sunny and warm. At no time were weather or lighting conditions detrimental to the observation or recovery of archaeological material.

Approximately 65% of the study area was assessed through a test pit survey, with the remaining area determined to have been subject to deep subsurface alteration that would remove any archaeological potential and was subsequently not assessed. This included four residential houses with associated driveways and outbuildings. Test pits were spaced at maximum intervals of 5 metres apart, and to within a metre of the standing structures. Each test pit was excavated by hand to 30 cm in diameter and were excavated into the first 5 centimetres of subsoil. Test pit depth averaged approximately 31 centimetres. Each test pit was examined for stratigraphy, cultural features, or evidence of fill, and all soil was screened through wire mesh of 6 millimetre width. All test pits were backfilled. The soil consisted of a light brown silt loam with an orange silt subsoil. No archaeological material was identified during the survey.

Based on the results of the Stage 1 background investigation and the subsequent Stage 2 test pit survey, the study area is considered to be free of archaeological material. Therefore, no additional archaeological assessments are recommended.

The MTCS is requested to review this report and provide a letter indicating their satisfaction that the fieldwork and reporting for this archaeological assessment are consistent with the Ministry's 2011 Standards and Guidelines for Consultant Archaeologists and the terms and conditions for archaeological licences, and to enter this report into the Ontario Public Register of Archaeological Reports.



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Project Personnel

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1.0 Project Context

1.1 Development Context

Earthworks Archaeological Services Inc. was retained by 2530173 Ontario Corporation to conduct a Stage 1 & 2 archaeological assessment of a 0.53 hectare area located at 1444-1458 Cawthra Road, part of Lots 188,189,190,191 of Registered Plan B-19, City of Mississauga, Regional Municipality of Peel, historically part of Lot 11, Concession 2 South of Dundas Street, Geographic Township of Toronto, Peel County, Ontario (Map 1). The assessment is undertaken as part of a site development application and was conducted as part of the requirements defined in Section 19.45 of the *City of Mississauga Official Plan*, which requires an archaeological assessment as part of an application submission (City of Mississauga 2018:19-3).

The objective of the Stage 1-2 archaeological assessment, as outlined by the *Standards and Guidelines for Consultant Archaeologists* (Government of Ontario 2011), are as follows:

- To provide information about the property's geography, history, previous archaeological fieldwork and current land condition
- To evaluate the property's archaeological potential.
- To document archaeological resources located on the property
- To determine whether any identified archaeological resources require further assessment
- To recommend Stage 3 assessment strategies for any archaeological sites determined to require additional assessment.

As part of this assessment, background research was conducted in Earthworks corporate library, the Peel County Land Registry Office (LRO #43), and the Federal Canadian Census located online at Library and Archives Canada.

Permission to access the properties was provided by Ryan Atkinson of 2530173 Ontario Corporation.



1.2 Historic Context

1.2.1 Pre-contact Aboriginal History

Table 1 provides a breakdown of the general culture history of southern Ontario, as based on Ellis and Ferris (1990)

Culture Period	Diagnostic Artifacts	Time Span (Years B.P.)	Detail
Early Paleo-Indian	Fluted Projectile Points	11,000-10,400	Nomadic caribou hunters
Late Paleo-Indian	Hi-Lo, Holcombe, Plano Projectile Points	10,400-10,000	Gradual population increase
Early Archaic	Nettling and Bifurcate Points	10,000-8,000	More localized tool sources
Middle Archaic	Brewerton and Stanly- Neville Projectile Points	8,000-4,500	Re-purposed projectile points and greater amount of endscrapers
Narrow Point Late Archaic	Lamoka and Normanskill Projectile Points	4,000-3,800	Larger site size
Broad Point Late Archaic	Genessee, Adder Orchard Projectile Points	3,800-3,500	Large bifacial tools. First evidence of houses
Small Point Late Archaic	Crawford Knoll, Innes Projectile Points	3,500-3,100	Bow and Arrow Introduction
Terminal Archaic	Hind Projectile Points	3,100-2,950	First evidence of cemeteries
Early Woodland	Meadowood Points, Cache Blades, and pop-eyed birdstones	2,950-2,400	First evidence of Vinette I Pottery
Middle Woodland	Pseudo-scallop shell	2,450-1550	Burial Mounds
	Princess Point pottery	1550-1100	First evidence of corn horticulture
	Levanna Point	1,100-700	Early longhouses
Late Woodland	Saugeen Projectile Points	700-600	Agricultural villages
	Nanticoke Notched Points	600-450	Migrating villages, tribal warfare

Table 1 Pre-contact Culture History of Ontario



1.2.2 Post Contact Aboriginal History

The surrounding area enters the historic record in 1626, when Father Daillon, a French missionary, spent three months in the Hamilton region attempting to conclude a trading alliance with the Neutral Confederacy. These negotiations ultimately failed due to opposition from Huron allies (White 1978:409). By 1638, the Neutral had expanded east to the Niagara River in response to a void left by the Wenro migrating to Huronia and the Erie migrating southwest. By the early 1640s, the Neutrals were engaged in large scale warfare with the Assistaeronons to the west while maintaining a neutral stance between the Huron and the League of Five Nations Iroquois. European influence in the region was generally restricted to the beaver pelt trade, and Aboriginal groups practiced a way of life that did not differ significantly from the pre-Contact period. By the late 1640's, the increasing scarcity of beaver pelts prompted the invasion of the Neutral by the League of Five Nations Iroquois. By 1651, the Neutral were destroyed and either moved west out of Ontario or were absorbed into the League of Five Nations (Trigger 1994:57).

The region appears to have been relatively unpopulated by permanent settlements in the latter half of the seventeenth century, with much of southern Ontario used as a hunting territory by the Iroquois. However, Ojibwa groups previously thought to have settled along the northern shores of Georgian Bay and Lake Superior gradually migrated into southern Ontario, and by the late seventeenth/early eighteenth century had settled in the Mississauga region (Rogers 1978:761).

By 1805, the British Government purchased from the Mississauga approximately 35,000 hectares of land between York and the Head of the Lake (present day Hamilton), which became known as the Head of the Lake Purchase (Surtees 1994:110). The Mississauga eventually relocated to the Grand River at New Credit in 1847.

1.2.3 European Settlement

The study area is located in the historic township of Toronto, which was first surveyed by Samuel Wilmot in 1806 following the purchase of the area from the Mississauga (Winearls 1991:577). The earliest blocks of land were granted to United Empire Loyalists following the American Revolutionary War as a means of developing the Upper Canada frontier. An additional wave of settlers arrived from New York in the 1830s. Early settlement and economic activity radiated outwards from the Credit River, on which a number of mills were constructed (Walker and Miles 1877:85-86).

Between this time and the beginning of the twentieth century, most of the township was cleared for cultivation, and a series of infrastructure upgrades, including a number of plank toll roads and railways, resulted in further population growth.

Farming continued to be the primary source of economic activity in the region until a post-World War II boom let to rapid urbanization, which culminated in the amalgamation of Toronto Township into the City of Mississauga in 1974.



1.2.4 Land Use History of Study Area

The study area is located in Lot 11, Concession 2 South of Dundas Street in the historic Toronto Township. Land registry records indicate the crown patent for the lot was granted to King's College in 1828.

In 1837, the lot was granted to Thomas Caven, an Irish born United Empire Loyalist who had fled persecution from the United States (Hicks 2005:16). When he passed away in 1844, the lot was divided between their three sons, and the study area forms part of the lot owned by William Cavan, who owned it for most of the nineteenth century (Map 3). The 1861 Agricultural Census documents Mr. Cavan as having cleared 50 of the 66 acres in his possession for cultivation (Government of Canada 1861:92). The study area remained as undeveloped farmland as late as 1919, when Otto Cavin sold 120 acres to Edgar Stephens, who built a subdivision under Registered Plan B-19 (Hicks 2005:17). As can be seen in Map 4, the study area became part of the larger urbanization of the surrounding region throughout the twentieth century.

1.3 Archaeological Context

1.3.1 Current Conditions

The study area consists of four residential suburban lots, each with a residential structure, associated driveway and manicured front and back yards (Images 1 thru 21).

1.3.2 Natural Environment

The study area is situated in the Iroquois Plain, which is a sloping plateau from the Lake Iroquois bluff to the Lake Ontario shoreline. The glacier that once covered the area laid down several deposits of glacial till (a poorly sorted sediment of silt/sand/clay with boulder/gravel inclusions). These deposits were eventually covered by silt and clay. As the glacier retreated, the area was filled with meltwater, creating glacial Lake Iroquois around 12500 years ago (Chapman & Putnam 1984:190).

The soil of the study area consists of Chinguacousy clay loam, an imperfectly drained, dark grey member of the Oneida Catena with friable consistency (Hoffman & Richards 1953:42).

The nearest potable water source is Cawthra Creek, a now extinct watercourse that was mapped at 116 metres southwest of the study area in nineteenth century mapping, and 360 metres southwest of the study area in early twentieth century topographic mapping. Cawthra Creek drained into Lake Ontario approximately 1.9 kilometres southeast of the study area.

The study area is located within the Toronto District of the Lake Simcoe – Rideau Ecoregion, which itself is situated within the Mixedwood Plains Ecozone. This region encompasses



6,311,957 hectares, and contains a diverse array of flora and fauna. It is characterized by diverse hardwood forests dominated by sugar maple, American beech, white ash, eastern hemlock, and numerous other species are found where substrates are well developed on upland sites. Lowlands, including rich floodplain forests, contain green ash, silver maple, red maple, eastern white cedar, yellow birch, balsam fir, and black ash. Peatlands (some quite large) occur along the northern edge and in the eastern portion of the ecoregion, and these contain fens, and rarely bogs, with black spruce and tamarack

Characteristic mammals include white-tailed deer, Northern raccoon, striped skunk, and woodchuck. Wetland habitats are used by many species of water birds and shorebirds, including wood duck, great blue heron, and Wilson's snipe. Open upland habitats are used by species such as field sparrow, grasshopper sparrow, and eastern meadowlark. Upland forests support populations of species such as hairy woodpecker, wood thrush, scarlet tanager, and rose-breasted grosbeak. Reptiles and amphibians found in this ecosystem include American bullfrog, northern leopard frog, spring peeper, red-spotted newt, snapping turtle, eastern gartersnake, and common watersnake. Characteristic fish species in the ecoregion include the white sucker, smallmouth bass, walleye, northern pike, yellow perch, rainbow darter, emerald shiner, and pearl dace.

(Crins et al. 2009:48-49)

1.3.3 Known Archaeological Sites

A search of registered archaeological sites within the MTCS Archaeological Sites Database was conducted. A total of 4 archaeological sites are registered. A summary of these sites is presented in Table 2. No archaeological surveys within 50 metres of the study area were identified.

A summary is provided below.

Table 2 Summary of Registered Archaeological Sites within 1 kilometre of the Study Area

Borden Number	Site Name	Time Period	Affinity	Site Type
AjGv-7	Robinson			
AjGv-6	Geveny	Archaic	Aboriginal	Othercamp/campsite



	AjGv-55	Hornick	Pre- Contact	Aboriginal	burial
,	AjGv-51	Hillerman	Archaic, Late, Woodland, Early	Aboriginal	scatter

1.4 Summary

As documented in Section 1.0 the study area contains evidence of archaeological potential. The location of the study area in close proximity to a historically mapped watercourse suggests there is potential for Pre-Contact Aboriginal archaeological material to be identified and recovered. Additionally, the location of the study area at the edge of a historic transportation route suggests there is potential for locating historic Euro-Canadian material. In summary, a Stage 2 archaeological assessment was determined to be required in order to identify and document any archaeological material that may be present. The inaccessibility of the study area to any form of ploughing equipment precluded the possibility of ploughing for a pedestrian survey, and as a result, a test pitting survey was determined to be required.



2.0 Field Methods

The Stage 2 archaeological assessment of the study area was conducted on May 24, 2018 under PIF #: P310-0174-2018, issued to Anthony Butler, M.Sc. (P310). The weather during the survey was sunny and warm. At no time were weather or lighting conditions detrimental to the observation or recovery of archaeological material.

Approximately 65% of the study area was assessed through a test pit survey (Image 22), with the remaining area determined to have been subject to deep subsurface alteration that would remove any archaeological potential and was subsequently not assessed. This included four residential houses with associated driveways and outbuildings

Test pits were spaced at maximum intervals of 5 metres apart, and to within a metre of the standing structures. Each test pit was excavated by hand to 30 cm in diameter and were excavated into the first 5 centimetres of subsoil. Test pit depth averaged approximately 31 centimetres. Each test pit was examined for stratigraphy, cultural features, or evidence of fill, and all soil was screened through wire mesh of 6 millimetre width. All test pits were backfilled. The soil consisted of a light brown silt loam with an orange silt subsoil (Image 23). No archaeological material was identified during the course of the survey.

The results of the Stage 2 archaeological survey are presented in Map 5.



3.0 Record of Finds

Table 3 provides an inventory of the documentary record generated in the field

Table 3 Information Inventory of Documentary Record

Document	Location	Description
Field Notes	Earthworks Office Project File	1 page of notes
Photographs	Earthworks Office Project File	31 digital photographs,
Field Map	Earthworks Office Project File	1 page



4.0 Analysis and Conclusions

A Stage 1 & 2 Archaeological Assessment was conducted on a 0.53 hectare area located at 1444-1458 Cawthra Road, part of Lots 188,189,190,191 of Registered Plan B-19, City of Mississauga, Regional Municipality of Peel, historically part of Lot 11, Concession 2 South of Dundas Street, Geographic Township of Toronto, Peel County, Ontario. A Stage 2 test pit survey was conducted on May 24, 2018.

The Stage 2 archaeological survey did not yield any evidence of archaeological material. As a result, no additional archaeological assessments are required.



5.0 Recommendations

Based on the results of the Stage 1 background investigation and the subsequent Stage 2 test pit survey, the study area is considered to be free of archaeological material. Therefore, no additional archaeological assessments are recommended.

The MTCS is requested to review this report and provide a letter indicating their satisfaction that the fieldwork and reporting for this archaeological assessment are consistent with the Ministry's 2011 Standards and Guidelines for Consultant Archaeologists and the terms and conditions for archaeological licences, and to enter this report into the Ontario Public Register of Archaeological Reports.



6.0 Advice on Compliance with Legislation

This report is submitted to the Minister of Tourism, Culture and Sport as a condition of licensing in accordance with Part VI of the *Ontario Heritage Act*, R.S.O. 1990, c 0.18. The report is reviewed to ensure that it complies with the standards and guidelines that are issued by the Minister, and that the archaeological fieldwork and report recommendations ensure the conservation, protection and preservation of the cultural heritage of Ontario. When all matters relating to archaeological sites within the project area of a development proposal have been addressed to the satisfaction of the Ministry of Tourism and Culture, a letter will be issued by the ministry stating that there are no further concerns with regard to alterations to archaeological sites by the proposed development.

It is an offence under Sections 48 and 69 of the *Ontario Heritage Act* for any party other than a licensed archaeologist to make any alteration to a known archaeological site or to remove any artifact or other physical evidence of past human use or activity from the site, until such time as a licensed archaeologist has completed fieldwork on the site, submitted a report to the Minister stating that the site has no further cultural heritage value or interest, and the report has been filed in the Ontario Public Register of Archaeology Reports referred to in Section 65.1 of the *Ontario Heritage Act*.

Should previously undocumented archaeological resources be discovered, they may be a new archaeological site and therefore subject to Section 48(1) of the *Ontario Heritage Act*. The proponent or person discovering the archaeological resources must cease alteration of the site immediately and engage a licensed consultant archaeologist to carry out archaeological fieldwork, in compliance with Section 48(1) of the *Ontario Heritage Act*.

The *Funeral, Burial and Cremation Services Act,* 2002, S.O. 2002, c.33 (when proclaimed in force) require that any person discovering human remains must notify the police or coroner and the Registrar of Cemeteries at the Ministry of Consumer Services.



7.0 References

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8.0 Images



Image 1: Study Area Conditions. Facing South.



Image 2: Study Area Conditions. Facing Southwest.





Image 3: Study Area Conditions. Facing South



Image 4: Study Area Conditions. Facing Southwest.





Image 5: Study Area Conditions. Facing Southwest.



Image 6: Study Area Conditions. Facing Southwest.





Image 7: Study Area Conditions. Facing Southwest.



Image 8: Study Area Conditions. Facing Southwest.





Image 9: Study Area Conditions. Facing North.



Image 10: Study Area Conditions. Facing Southeast.





Image 11: Study Area Conditions. Facing Southwest.



Image 12: Study Area Conditions. Facing West.





Image 13: Study Area Conditions. Facing Southeast.



Image 14: Study Area Conditions. Facing Northeast.





Image 15: Study Area Conditions. Facing Northwest.



Image 16: Study Area Conditions. Facing Northeast.





Image 17: Study Area Conditions. Facing Northwest.



Image 18: Study Area Conditions. Facing Northeast.





Image 19: Study Area Conditions. Facing Northeast.



Image 20: Study Area Conditions. Facing Northwest.





Image 21: Study Area Conditions. Facing Northwest.



Image 22: Test Pit Survey in Progress. Facing East.



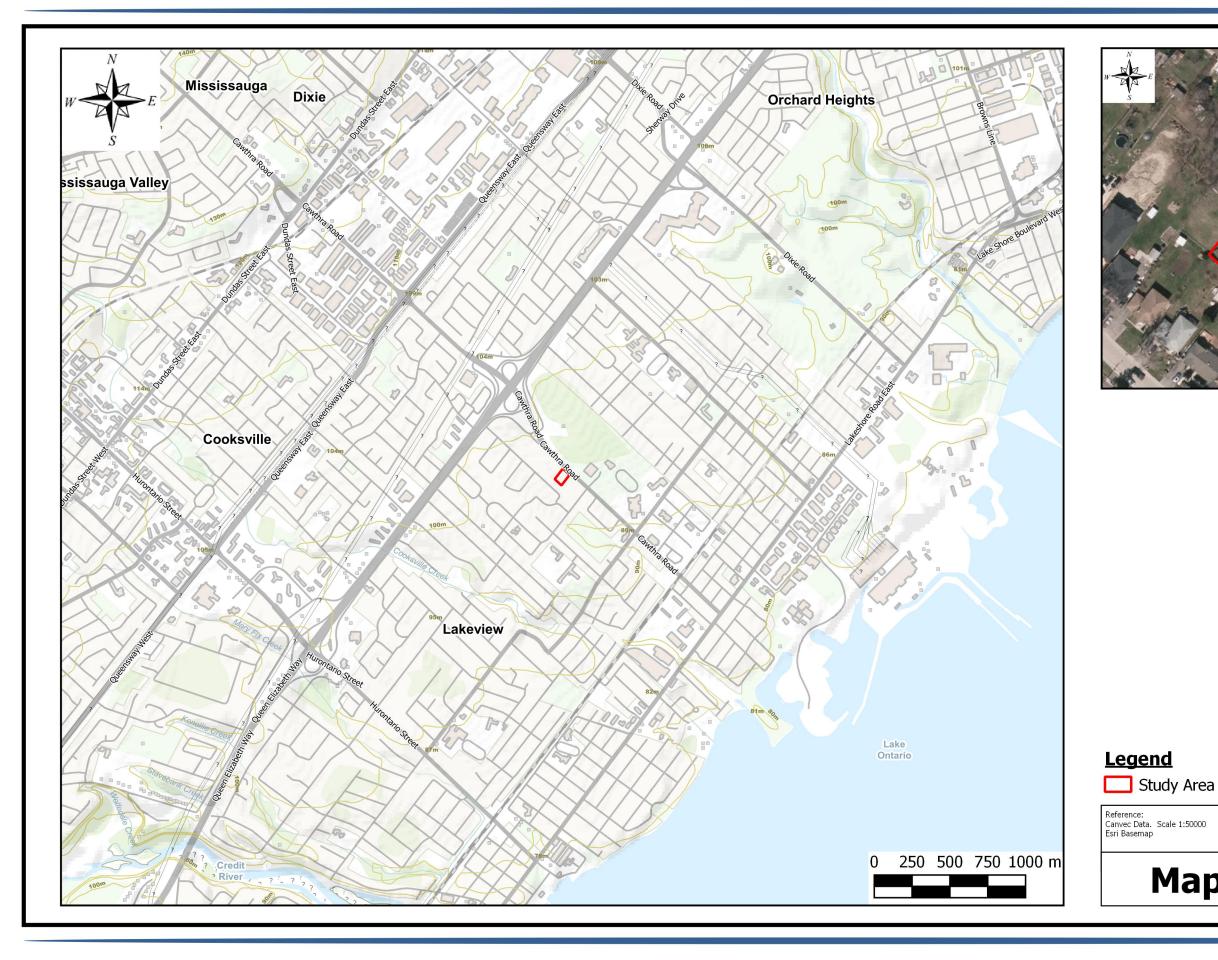


Image 23: Subsurface Stratigraphy.



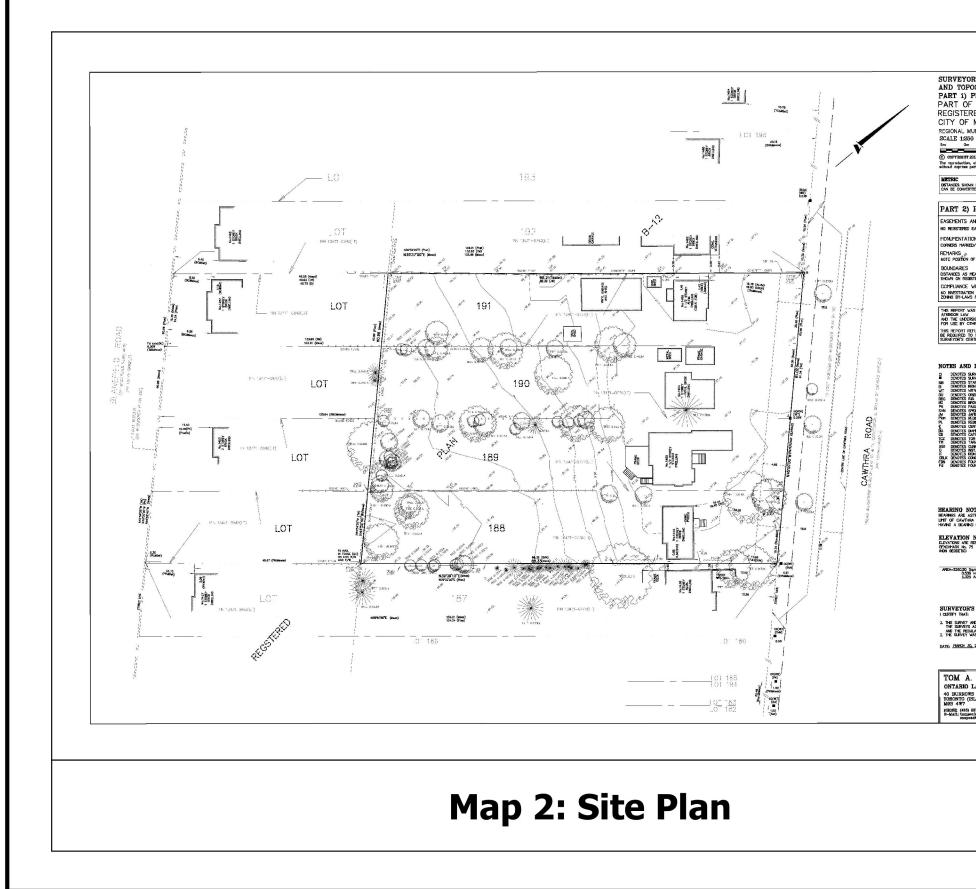
9.0 Maps





Map 1: Regional Map





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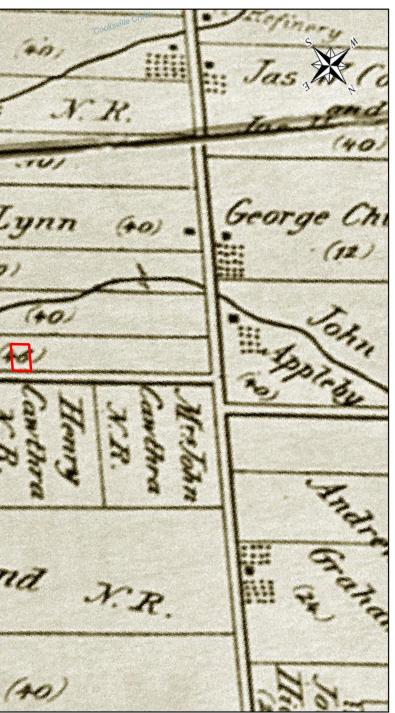
Legend Study Area

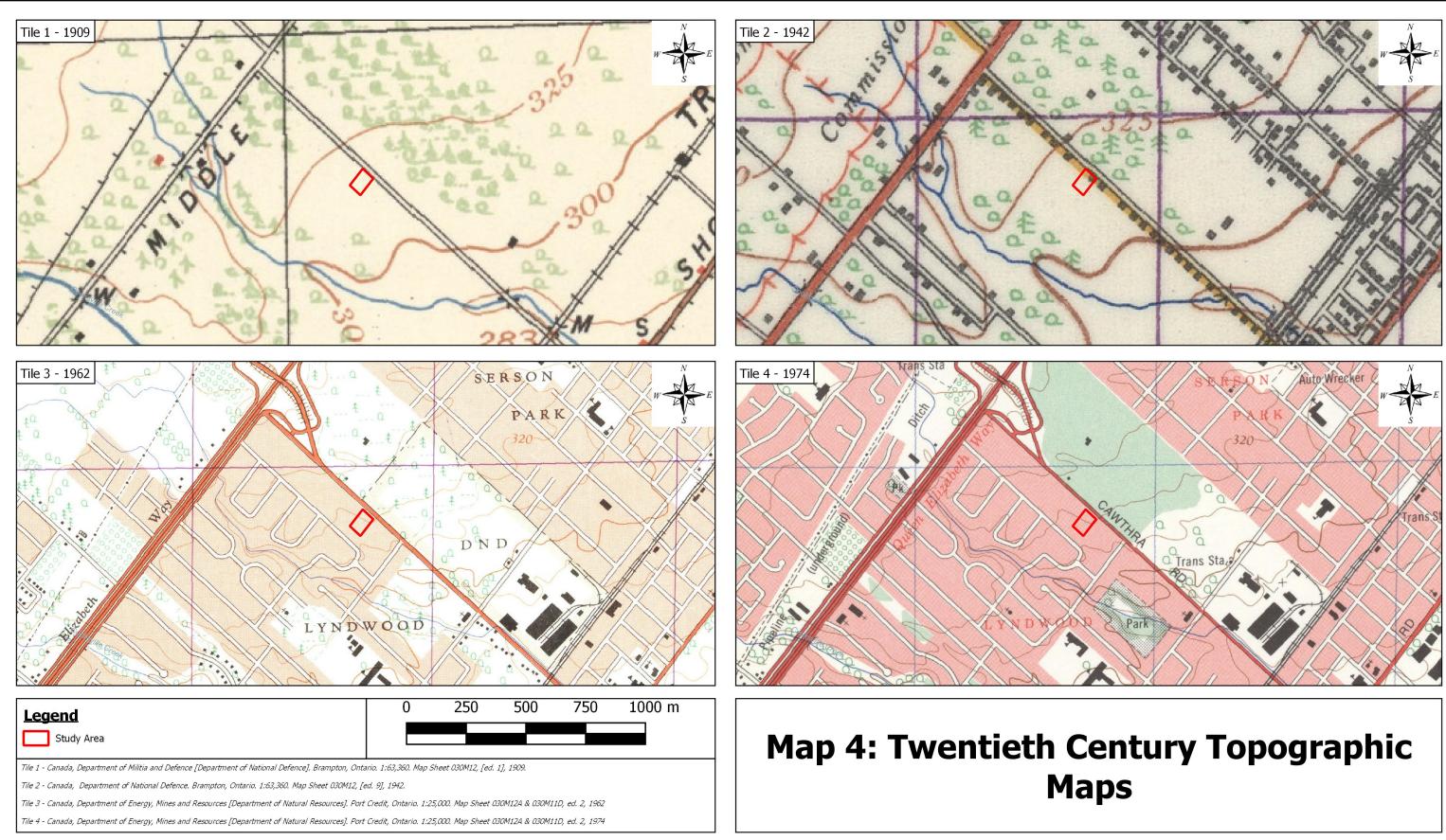
Not to Scale

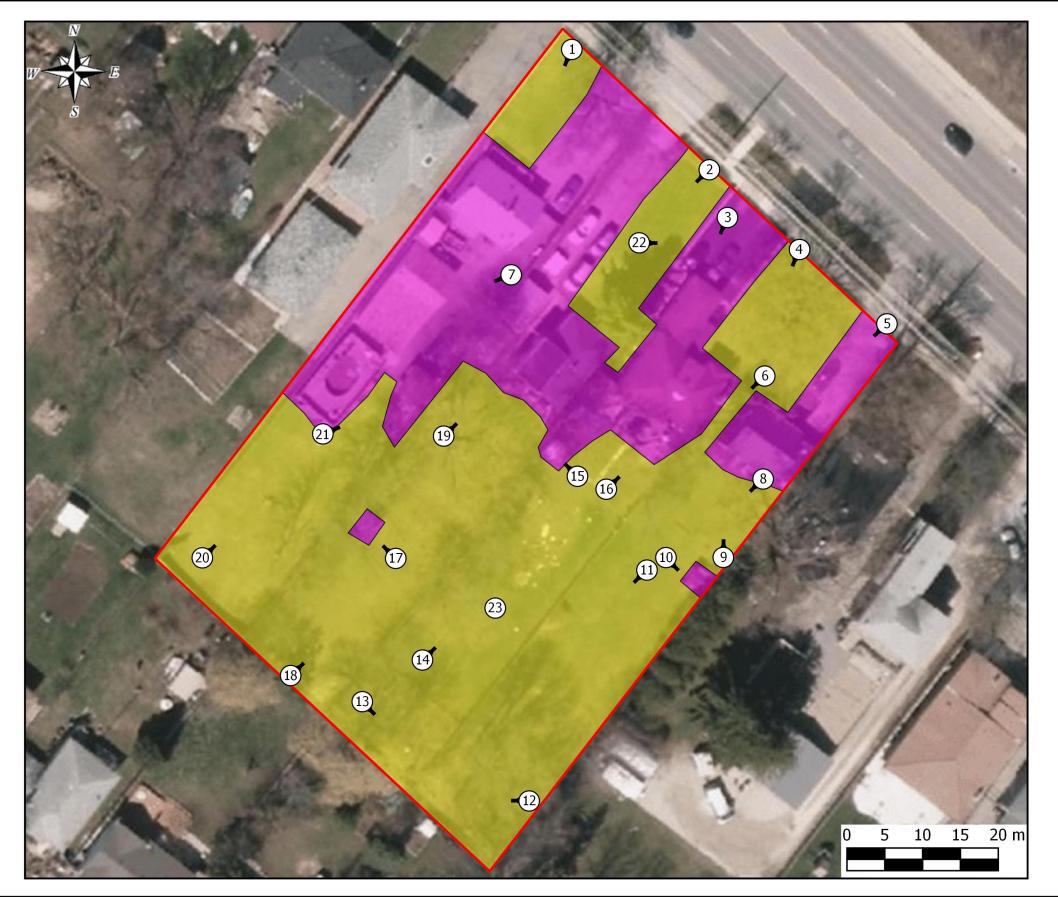
Tile 1 - Tremaine's Map of the County of Peel, Canada West. Compiled and Drawn from Actual Surveys by Geo. R. Tremaine, Toronto. 1859.

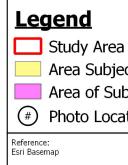
Tile 2 - Illustrated historical atlas of the county of Peel, Ont. H. Walker & Miles, 1877.

Map 3: Nineteenth Century Historic Mapping









Map 5: Stage 2 **Assessment Results**

Area Subject to Test Pit Survey - 5 metre Intervals Area of Subsurface Disturbance - Not Assessed Photo Location and Direction