



Stage 1 & 2 Archaeological Assessment

5868 County Road 65
Part of Lot 27, Concession 5
Geographic Township of Hope
Municipality of Port Hope
County of Northumberland

Prepared for:
Larry MacDonell
524 Rosebank Road
Pickering, Ontario
L1W 2N5

Licensee: Shane McCartney
PIF: P321-0434-2022
Revised Report



Earthworks
ARCHAEOLOGICAL SERVICES INC.

Earthworks Archaeological Services Inc.
2365 Watts Road,
Haliburton, Ontario
K0M 1S0

March 7, 2024

Executive Summary

Earthworks Archaeological Services Inc. was retained to conduct a Stage 1 & 2 archaeological assessment of a 24.51 hectare property located at 5868 County Road 65, part of Lot 27, Concession 5, Geographic Township of Hope, Municipality of Port Hope, County of Northumberland, Ontario. The assessment is undertaken as part of an application for a zoning by-law amendment/plan of subdivision and is being conducted as part of the requirements defined in Section C11.2.3 of the *Municipality of Port Hope Official Plan*, which states that where an area is identified as having archaeological potential, there requires preparations and undertaking of an archaeological assessment, by archaeologist licensed on the Ontario Heritage Act

The study area contains evidence of archaeological potential. The location of a tributary of the Ganaraska River within the boundary of the study area indicates the potential for locating Pre-Contact Indigenous archaeological material. Additionally, the location of the study area at the border of County Road 65, a historically documented transportation route, and a historically mapped homestead within the boundary of the study area, indicates the potential to locate Historic Euro-Canadian archaeological 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. A portion of the study area is a ploughed agricultural field, and as a result, a combined test pit and pedestrian survey was determined to be required.

The Stage 2 archaeological assessment of the study area was conducted between April 11 and April 14, 2023 and March 5, 2024 under PIF #: P321-0434-2022, issued to Shane McCartney, M.A. (P321). The weather during the survey was overcast and mild. The study area was ploughed and had been weathered by heavy rainfall. The topsoil was completely exposed, with an estimated surface visibility of 80-95% of the ploughed ground surface. At no time were weather or lighting conditions detrimental to the observation or recovery of archaeological material.

Approximately 56% of the study area was assessed through a pedestrian survey. Pedestrian survey transects were spaced at maximum intervals of 5 metres apart. Approximately 37% of the study area was assessed through a test pit survey, with the remaining area not assessed due to permanent inundation or evidence of subsurface disturbance from the construction of the homestead, barn and driveway. Test pits were spaced at maximum intervals of 5 metres apart. Each test pit was excavated by hand to 30 centimetres in diameter and were excavated into the first 5 centimetres of subsoil. Test pit depth averaged 28 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. During the March 5, 2024 survey the soil was dry and able to be screened through six millimetre mesh. The soil stratigraphy consisted of a brown sandy loam topsoil horizon overlaying a pale orange sand subsoil

A lithic tool was identified during the course of the pedestrian survey. Once initially identified, survey transects were reduced to one metre intervals over a minimum of a 20 metre radius around the find to determine whether it was an isolated find or part of a larger scatter, with no further artifacts identified. In order to obtain better quality evidence to inform Stage 3



recommendations, a Controlled Surface Pickup was conducted, and the artifact was mapped and recovered for analysis.

The Stage 2 archaeological survey resulted in the recovery of an isolated lithic formal tool. Consultation of Section 2.2 of the *Standards and Guidelines for Consultant Archaeologists* indicates Location 1 does not meet the criteria for further cultural heritage value or interest, and as a result no additional archaeological assessments are required. As a result, no additional archaeological assessments are required for Location 1 or for the larger study area.

Based on the results of the Stage 1 background investigation and the subsequent Stage 2 survey, the surveyed area is considered to be free of archaeological material of further cultural heritage value or interest. Therefore, no additional archaeological assessments are recommended.

The Ministry of Citizenship and Multiculturalism 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.



Table of Contents

1.0	Project Context	1
1.1	Development Context	1
1.2	Historic Context	2
1.2.1	Pre-Contact Indigenous History	2
1.2.2	Oral History.....	3
1.2.3	Post Contact History.....	4
1.2.4	Land Use History of Study Area	6
1.2.5	Historic Plaques.....	6
1.3	Archaeological Context.....	6
1.3.1	Current Conditions	6
1.3.2	Natural Environment.....	6
1.3.3	Known Archaeological Sites.....	7
1.3.4	Adjacent Archaeological Assessments	8
1.4	Summary	8
2.0	Field Methods	9
3.0	Record of Finds	10
3.1	Location 1.....	10
4.0	Analysis and Conclusions	11
5.0	Recommendations	12
6.0	Advice on Compliance with Legislation	13
7.0	References	14
8.0	Images	16
9.0	Maps	29



Project Personnel

Managing Director:	Anthony Butler, M.Sc. (P310)
Licensed Archaeologist:	Shane McCartney, M.A. (P321)
Licensed Field Director:	Katrina Mason, B.Sc. (R1226) Michael Golloher, M.Sc. (P1037)
Field Technicians:	Trevor Tyo, B.A. Daniel White
Artifact Analysis:	Katrina Mason, B.Sc. (R1226)
Report Production:	Shane McCartney, M.A. (P321)



1.0 Project Context

1.1 Development Context

Earthworks Archaeological Services Inc. (Earthworks) was retained to conduct a Stage 1 & 2 archaeological assessment of a 24.51 hectare property located at 5868 County Road 65, part of Lot 27, Concession 5, Geographic Township of Hope, Municipality of Port Hope, County of Northumberland, Ontario (Map 1). The assessment is undertaken as part of an application for a zoning by-law amendment/plan of subdivision (Map 2) and is being conducted as part of the requirements defined in Section C11.2.3 of the *Municipality of Port Hope Official Plan*, which states that where an area is identified as having archaeological potential, there requires preparations and undertaking of an archaeological assessment, by archaeologist licensed under the Ontario Heritage Act (Municipality of Port Hope 2017:57).

The objectives of the Stage 1 & 2 archaeological assessment, as outlined by the Ministry of Citizenship and Multiculturalism (MCM) *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 OnLand Registry Database, and the Federal Canadian Census located online at Library and Archives Canada.

Permission to access the property was provided by the proponent.

1.2 Historic Context

1.2.1 Pre-Contact Indigenous History

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

Table 1: Summary of Pre-Contact Indigenous Culture History of Southern Ontario

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
Late Woodland	Levanna Point	1,100-700	Early longhouses
	Saugeen Projectile Points	700-600	Agricultural villages
	Nanticoke Notched Points	600-450	Migrating villages, tribal warfare



1.2.2 Oral History

The following is an excerpt from a collated oral history of the region, as recounted by Gitiga Migizi, a respected Elder and Knowledge Keeper of the Michi Saagiig Nation and provided to Earthworks by Dr. Julie Kapyrka of Curve Lake First Nation:

The traditional homelands of the Michi Saagiig (Mississauga Anishinaabeg) encompass a vast area of what is now known as southern Ontario. The Michi Saagiig are known as “the people of the big river mouths” and were also known as the “Salmon People” who occupied and fished the north shore of Lake Ontario where the various tributaries emptied into the lake. Their territories extended north into and beyond the Kawarthas as winter hunting grounds on which they would break off into smaller social groups for the season, hunting and trapping on these lands, then returning to the lakeshore in spring for the summer months.

The Michi Saagiig were a highly mobile people, travelling vast distances to procure subsistence for their people. They were also known as the “Peacekeepers” among Indigenous nations. The Michi Saagiig homelands were located directly between two very powerful Confederacies: The Three Fires Confederacy to the north and the Haudenosaunee Confederacy to the south. The Michi Saagiig were the negotiators, the messengers, the diplomats, and they successfully mediated peace throughout this area of Ontario for countless generations.

Michi Saagiig oral histories speak to their people being in this area of Ontario for thousands of years. These stories recount the “Old Ones” who spoke an ancient Algonquian dialect. The histories explain that the current Ojibwa phonology is the 5th transformation of this language, demonstrating a linguistic connection that spans back into deep time. The Michi Saagiig of today are the descendants of the ancient peoples who lived in Ontario during the Archaic and Paleo-Indian periods. They are the original inhabitants of southern Ontario, and they are still here today.

The traditional territories of the Michi Saagiig span from Gananoque in the east, all along the north shore of Lake Ontario, west to the north shore of Lake Erie at Long Point. The territory spreads as far north as the tributaries that flow into these lakes, from Bancroft and north of the Haliburton highlands. This also includes all the tributaries that flow from the height of land north of Toronto like the Oak Ridges Moraine, and all of the rivers that flow into Lake Ontario (the Rideau, the Salmon, the Ganaraska, the Moira, the Trent, the Don, the Rouge, the Etobicoke, the Humber, and the Credit, as well as Wilmot and 16 Mile Creeks) through Burlington Bay and the Niagara region including the Welland and Niagara Rivers, and beyond.

Michi Saagiig oral histories also speak to the occurrence of people coming into their territories sometime between 500-1000 A.D. seeking to establish villages and a corn growing economy – these newcomers included peoples that would later be known as the Huron-Wendat, Neutral, Petun/Tobacco Nations. The Michi Saagiig made Treaties with these newcomers and granted them permission to stay with the understanding that they were visitors in these lands. Wampum was made to record these contracts, ceremonies



would have bound each nation to their respective responsibilities within the political relationship, and these contracts would have been renewed annually (see Gitiga Migizi and Kapyrka 2015). These visitors were extremely successful as their corn economy grew as well as their populations. However, it was understood by all nations involved that this area of Ontario were the homeland territories of the Michi Saagiig.

Problems arose for the Michi Saagiig in the 1600s when the European way of life was introduced into southern Ontario. Also, around the same time, the Haudenosaunee were given firearms by the colonial governments in New York and Albany which ultimately made an expansion possible for them into Michi Saagiig territories. There began skirmishes with the various nations living in Ontario at the time. The Haudenosaunee engaged in fighting with the Huron-Wendat and between that and the onslaught of European diseases, the Iroquoian speaking peoples in Ontario were decimated.

The onset of colonial settlement and missionary involvement severely disrupted the original relationships between these Indigenous nations. Disease and warfare had a devastating impact upon the Indigenous peoples of Ontario, especially the large sedentary villages, which mostly included Iroquoian speaking peoples. The Michi Saagiig were largely able to avoid the devastation caused by these processes by retreating to their wintering grounds to the north, essentially waiting for the smoke to clear.

Michi Saagiig Elder Gitiga Migizi (2017) recounts:

“We weren’t affected as much as the larger villages because we learned to paddle away for several years until everything settled down. And we came back and tried to bury the bones of the Huron but it was overwhelming, it was all over, there were bones all over – that is our story.

There is a misnomer here, that this area of Ontario is not our traditional territory and that we came in here after the Huron-Wendat left or were defeated, but that is not true. That is a big misconception of our history that needs to be corrected. We are the traditional people, we are the ones that signed treaties with the Crown. We are recognized as the ones who signed these treaties and we are the ones to be dealt with officially in any matters concerning territory in southern Ontario.

We had peacemakers go to the Haudenosaunee and live amongst them in order to change their ways. We had also diplomatically dealt with some of the strong chiefs to the north and tried to make peace as much as possible. So we are very important in terms of keeping the balance of relationships in harmony.

1.2.3 Post Contact History

Early accounts by European explorers suggest the study area was considered part of a loosely defined hunting territory associated with the Huron Confederacy (Trigger 1994). Contemporary oral histories indicate region was shared with the Huron by Anishinaabeg people who oversaw

the territory through the Odawa-led Three Fires Confederacy (Williams 2018:36-37). European influence in the region was generally restricted to the beaver pelt trade, and Indigenous groups practiced a way of life that did not differ significantly from the Pre-Contact period. By the 1640's, the increasing scarcity of beaver pelts prompted the invasion of Huronia by the League of Five Nations Iroquois, and by 1649 five Huron villages were destroyed and the remainder abandoned, resulting in the complete disintegration of the Huron Confederacy and the migration of their members into the Petun, Neutral and other groups (Stone and Chaput 1978). The Michi Saagiig retreated to the upper Great Lakes region during this period until the outbreaks of disease and violence subsided (Williams 2018:41). The study area became part of a virtually unpopulated hunting territory for the succeeding fifty years, while the Iroquois established a series of villages along the north shore of Lake Ontario to take advantage of trade with Europeans (Robinson 1933). The Michi Saagiig returned to the region at the end of the seventeenth century, forcing the Iroquois to retreat to New York State following a short period of warfare (Williams 2018:42-44).

Following their defeat of the French at the Battle of the Plains of Abraham in 1759, the British began purchasing large tracts of land in Ontario through treaties with the Indigenous communities in the region. The Royal Proclamation of 1763 asserted British sovereignty over the region while declaring the land to be in possession of the Indigenous people who occupied it while establishing the policies for Crown purchase of these lands (Surtees 1994:93). These purchasing efforts were intensified following the conclusion of the American Revolutionary War in 1783 and the War of 1812 in 1814, which saw successive waves of migration of United Empire Loyalists and British settlers into Upper Canada. The current study area forms part of Treaty 20, also known as the Rice Lake Purchase, which ceded possession of nearly one million hectares of land from the Rice Lake Mississauga at Smith's Creek to the British Government in 1818 (Surtees 1994:113).

The study area is located in the historic Hope Township, which saw European fur traders arrive as early as 1778 to trade with the Chippewa at the village of Cochingomink. The first permanent settler was named Myndert Harris, a United Empire Loyalist who arrived at the site of present day Port Hope in 1792 (Belden & Co. 1878:iv). The first grist mill was established in 1798, and the village plot for Port Hope was laid out at approximately the same time. Early settlement radiated slowly from this central community, and early economic activity focussed on subsistence agriculture and limited trade with the United States (Richardson 1944). After the Rebellion of 1837, a large influx of settlers arrived along the north shore of Lake Ontario, and the township increased in population to 6,900 people by 1851. Port Hope became a large regional industrial centre that focussed on lumber and agricultural export, which increased further with the construction of the railroad through the region in 1852. A steady decline in the area followed the collapse of the lumber industry in the 1880s and the abandonment of low productivity farms in the northern half of the township. The study area is located near present day Osaca, an unincorporated village that was first settled in the 1820s and 30s by pioneer families that has not significantly changed to the present day. In 2001, the township was amalgamated with the town of Port Hope to form part of the Municipality of Port Hope, itself part of the upper tier County of Northumberland.



1.2.4 Land Use History of Study Area

The study area is located in the historic Lot 27, Concession 5, which land registry records document as having been granted to David Scott in 1802. However, the next entry records a Benjamin Marsh selling the 200 acre lot to Samuel Marsh in 1808. William Marsh sold the property to Elizabeth Beard in 1832, who sold it to James Elliott in 1852. The 1861 Tremaine Map of Durham County (Map 3, Tile 1) lists a J. Elliott as the owner. Mr. Elliott is listed as a 55 year old English farmer residing in a 1.5 storey frame house in the 1861 Federal Census, having cleared (Government of Canada 1861:58). No entries are recorded for the property in the mid nineteenth century agricultural censuses, indicating the property was likely unused. Mr. Elliott subsequently willed the property to his son Joshua in 1863, who is depicted as the owner of the property in the 1878 *Illustrated Historical Atlas of the County of Durham* (Map 3, Tile 2). The study area remained in possession of the Elliott family until 1910, when it was sold to Thomas Moore. The area has remained as a combination of agricultural land and woodlot throughout the twentieth century (Map 4).

1.2.5 Historic Plaques

As per Section 1, Standard 1.1 of the *Standards and Guidelines for Consultant Archaeologists*, Earthworks consulted local historical plaques in order to inform archaeological potential and assessment strategies. No local plaques were found which related to the history of the current study area.

1.3 Archaeological Context

1.3.1 Current Conditions

The study area consists of an homestead and barn connected to an agricultural field and horse pasture backed by a mature wetland and woodlot (Images 1 thru 21).

1.3.2 Natural Environment

The study area is situated within a sand plain (Map 5) the Iroquois Plain physiographic region (Chapman and Putnam 1984: 172-174). 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 surficial geology consists of a mixture of gravel, sand, silt and clay (Map 6). The soil within the study area consists of Brighton Sand (Map 7), a light grey-brown sand and yellow sand over a layer of coarse calcareous sand, excessively drained, resulting in stone free, but is low in fertility (Webber and Morwick 1946:39).

The nearest potable water source is a tributary of Ganaraska River running through the northern boundary of the study area. The Ganaraska River drains into Lake Ontario approximately 13.2 kilometres to the southwest.

The study area is situated in the Oshawa-Cobourg District of the Lake Simcoe-Rideau Ecoregion, which itself is part of the Mixedwood Plains Ecozone. This region encompasses 6,311,957 hectares, and contains a diverse array of flora and fauna. It is characterized by 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 MHSTCI Archaeological Sites Database was conducted. The Beckmann (BaGo-24) site, a Pre-Contact Indigenous findspot, is located within one kilometre of the study area.



1.3.4 Adjacent Archaeological Assessments

The property immediately south of the property was surveyed by Earthworks in 2017 under PIF #: P310-0169-2017. A combined Stage 2 pedestrian and test pit survey did not locate any cultural material, and no further archaeological assessments were recommended (Earthworks 2018).

1.4 Summary

As documented in Section 1.0 the study area contains evidence of archaeological potential. The location of a tributary of the Ganaraska River within the boundary of the study area indicates the potential for locating Pre-Contact Indigenous archaeological material. Additionally, the location of the study area at the border of County Road 65, a historically documented transportation route, and a historically mapped homestead within the boundary of the study area, indicates the potential to locate Historic Euro-Canadian archaeological 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. A portion of the study area is a ploughed agricultural field, and as a result, a combined test pit and pedestrian survey was determined to be required.



2.0 Field Methods

The Stage 2 archaeological assessment of the study area was conducted between April 11 and April 14, 2023 and March 5, 2024 under PIF #: P321-0434-2022, issued to Shane McCartney, M.A. (P321). The weather during the survey was overcast and mild. The study area was ploughed and had been weathered by heavy rainfall. The topsoil was completely exposed, with an estimated surface visibility of 80-95% of the ploughed ground surface (Image 22). At no time were weather or lighting conditions detrimental to the observation or recovery of archaeological material.

Approximately 56% of the study area was assessed through a pedestrian survey. Pedestrian survey transects were spaced at maximum intervals of 5 metres apart.

Approximately 37% of the study area was assessed through a test pit survey, with the remaining area not assessed due to permanent inundation or evidence of subsurface disturbance from the construction of the homestead, barn and driveway. Test pits were spaced at maximum intervals of 5 metres apart. Each test pit was excavated by hand to 30 centimetres in diameter and were excavated into the first 5 centimetres of subsoil. Test pit depth averaged 28 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. During the March 5, 2024 survey the soil was dry and able to be screened through six millimetre mesh (Image 23). The soil stratigraphy consisted of a brown sandy loam topsoil horizon overlaying a pale orange sand subsoil (Image 24).

A lithic tool was identified during the course of the pedestrian survey. Once initially identified, survey transects were reduced to one metre intervals over a minimum of a 20 metre radius around the find to determine whether it was an isolated find or part of a larger scatter, with no further artifacts identified. In order to obtain better quality evidence to inform Stage 3 recommendations, a Controlled Surface Pickup was conducted, and the artifact was mapped and recovered for analysis.

Archaeological material that was identified was recorded in UTM coordinates with a Trimble Catalyst employing the North American Datum 83, with a stated real time accuracy of two centimetres.

The results of the Stage 2 archaeological survey are presented in Map 8.

3.0 Record of Finds

Table 2 provides an inventory of the documentary record generated in the field.

Table 2: Information Inventory of Documentary Record

Document	Location	Description
Field Notes	Earthworks Office Project File	1 page of notes
Photographs	Earthworks Office Project File	51 digital photographs
Field Map	Earthworks Office Project File	1 page
UTM Coordinates	Earthworks Office Project File	1 coordinate

The recovered artifacts was washed, catalogued, and analyzed and are currently stored in one banker's box, measuring 40.0 x 31.5 x 25 centimetres at the Earthworks Corporate Storage Unit. The artifacts and documents will be stored by Earthworks until arrangements can be made to transfer them to an MCM approved storage facility.

The Parks Canada's *Database Artifact Inventory Guide* was used as a template during the cataloguing phase of artifact analysis and was modified accordingly. This guide classifies artifacts according to specific functional classes, subgroups, and types. Classes are intended to reflect related behaviour and general function-related activities. For example, Classes used include "Foodways" and include artifacts related to all aspects of food preparation, storage and consumption. Likewise, the "Architectural" class is a catch-all category for items such as brick, nails, window glass, etc. These Classes are further subdivided into Groups reflecting more specialized activities. The "Architectural" class, for example, includes groups such as construction materials, nails and window glass. Groups are then further refined into "Types", defined by attributes that are either functionally or temporally diagnostic, and so on. By classifying archaeological material in this manner, general trends can be discerned concerning on how an area was used in the past.

3.1 Location 1

Location 1 was identified during the Stage 2 pedestrian survey of the eastern border of the study area, approximately 243 metres southeast of the farmhouse. It consists of a formal lithic bifacial tool manufactured on greywacke, a type of sandstone material. It is missing its base and tip, and measures 4.6 centimetres in length, 2.4 centimetres in width, and 0.5 centimetres in thickness. Its lack of tip or base precluded assigning it to a specific age or cultural affiliation. Location 1 is presented in Image 21, and its catalogue is presented in Table 3.

Table 3: Location 1 Stage 2 Artifact Catalogue

Cat. #	Field ID	Location ID	Context	Artifact Class	Artifact Group	Artifact Type	Lithic Material Type	Freq.	Comment
1	FS 1	Location 1	CSP	Indigenous	Formal Lithic Tool	Biface	Greywacke	1	Broken Tip and Base- L:4.6cm, W:2.4cm, T: 0.5cm

4.0 Analysis and Conclusions

A Stage 1 & 2 Archaeological Assessment was conducted on a 24.12 hectare property located at 5868 County Road 65, part of Lot 27, Concession 5, Geographic Township of Hope, Municipality of Port Hope, County of Northumberland, Ontario. A Stage 2 survey was conducted between April 11 and April 14, 2023, and March 5, 2024.

The Stage 2 archaeological survey resulted in the recovery of an isolated lithic formal tool. Consultation of Section 2.2 of the *Standards and Guidelines for Consultant Archaeologists* indicates Location 1 does not meet the criteria for further cultural heritage value or interest, and as a result no additional archaeological assessments are required. As a result, no additional archaeological assessments are required for Location 1 or for the larger study area.



5.0 Recommendations

Based on the results of the Stage 1 background investigation and the subsequent Stage 2 survey, the surveyed area is considered to be free of archaeological material of further cultural heritage value or interest. Therefore, no additional archaeological assessments are recommended.

The Ministry of Citizenship and Multiculturalism 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 Ministry of Citizenship and Multiculturalism 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 Citizenship and Multiculturalism, 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

Belden & Co.

1878 *Illustrated Historical Atlas of the Counties of Northumberland and Durham*. H. Belden & Co.

Chapman, Lyman John and Donald F. Putnam

1984 *The Physiography of Southern Ontario*. 3rd edition. Ontario Geological Survey Special Volume 2. Ontario Ministry of Natural Resources, Toronto.

Crins, William J., Gray, Paul A., Uhlig, Peter W.C., and Monique C. Wester

2009 *The Ecosystems of Ontario, Part 1: Ecozones and Ecoregions*. Technical Report, Ontario Ministry of Natural Resources, Science & Information Branch.

Earthworks (Earthworks Archaeological Services Inc.)

2018 *Stage 1 & 2 Archaeological Assessment County Road 65 Parts 1 and 3, Registered Plan 39R12373 Part of Lot 27, Concession 5 Geographic Township of Hope Municipality of Port Hope County of Northumberland*. Report on file with the Ministry of Heritage, Sport, Tourism and Culture Industries, Toronto.

Ellis, Chris J. and Neal Ferris (editors)

1990 *The Archaeology of Southern Ontario to A.D. 1650*. Occasional Publication of the London Chapter, Ontario Archaeological Society, Number 5.

Government of Canada

1861 Personal Census, Enumeration District No. Four, Township of Hope in the County of Durham. Located Online at Library and Archives Canada.

Government of Ontario

2011 *Standards and Guidelines for Consultant Archaeologists*. Ministry of Heritage, Sport, Tourism and Culture Industries, Culture Division, Programs and Services Branch, Culture Programs Unit, Toronto.

Municipality of Port Hope

2017 *Municipality of Port Hope Official Plan*. Available Online
<[https://www.porthope.ca/en/business-and-development/resources/Official%20Plan/Official%20Plan%202017%20\(9\).pdf](https://www.porthope.ca/en/business-and-development/resources/Official%20Plan/Official%20Plan%202017%20(9).pdf)>

Johnson, Leo A.

1973 *History of the County of Ontario 1615-1875*. The Corporation of the County of Ontario, Whitby, Ontario.



Richardson, Arthur Herbert

1944 *A report on the Ganaraska watershed: a study in land use with plans for the rehabilitation of the area in the postwar period.* Pub. jointly by the Dominion and Ontario governments by T. E. Bowman, printer to the King.

Rogers, E.S.

1978 Southeastern Ojibwa. In *Handbook of North American Indians*, William C. Sturtevant and Bruce Trigger (eds). Smithsonian Institution, Washington, D.C.

Stone, Lyle M. and Donald Chaput

1978 History of the Upper Great Lakes Area. In *Handbook of North American Indians*, William C. Sturtevant and Bruce Trigger (eds). Smithsonian Institution, Washington, D.C.

Surtees, Robert J.

1994 Land Cessions, 1763-1830. In *Aboriginal Ontario*, Edward S. Rogers and Donald B. Smith (eds.). Dundurn Press, Toronto.

Trigger, Bruce G.

1994 The Original Iroquoians: Huron, Petun and Neutral. In *Aboriginal Ontario*, Edward S. Rogers and Donald B. Smith (eds.). Dundurn Press, Toronto.

Webber, L.R. and F.F. Morwick

1946 *Soil Survey of Durham County.* Canadian Departments of Agriculture, Ontario Agricultural College, Guelph, Ontario.

Williams, Doug (Gidigaa Migizi)

2018: *Michi Saagiig Nishnaabeg: This is our Territory.* Arp Books, Winnipeg.



8.0 Images



Image 1: Study Area Conditions. Facing Southeast.



Image 2: Study Area Conditions. Facing Northwest.



Image 3: Study Area Conditions. Facing Northwest.



Image 4: Study Area Conditions. Facing South.



Image 5: Study Area Conditions. Facing Southeast.



Image 6: Study Area Conditions. Facing Northwest.



Image 7: Study Area Conditions. Facing West.



Image 8: Study Area Conditions. Facing North.





Image 9: Study Area Conditions. Facing Southwest.



Image 10: Study Area Conditions. Facing North.





Image 11: Study Area Conditions. Facing Northeast.



Image 12: Study Area Conditions. Facing West.





Image 13: Study Area Conditions. Facing Southwest.



Image 14: Study Area Conditions. Facing South.





Image 15: Study Area Conditions. Facing West.



Image 16: Study Area Conditions. Facing West.



Image 17: Study Area Conditions. Facing Northwest.



Image 18: Study Area Conditions. Facing North.





Image 19: Study Area Conditions. Facing West.



Image 20: Study Area Conditions. Facing Northeast.



Image 21: Study Area Conditions. Facing South.



Image 22: Ploughed Agricultural Field Surface Visibility.





Image 23: Screening Conditions during March 5 2024 survey.



Image 24: Open Test Pit showing Subsurface Stratigraphy.

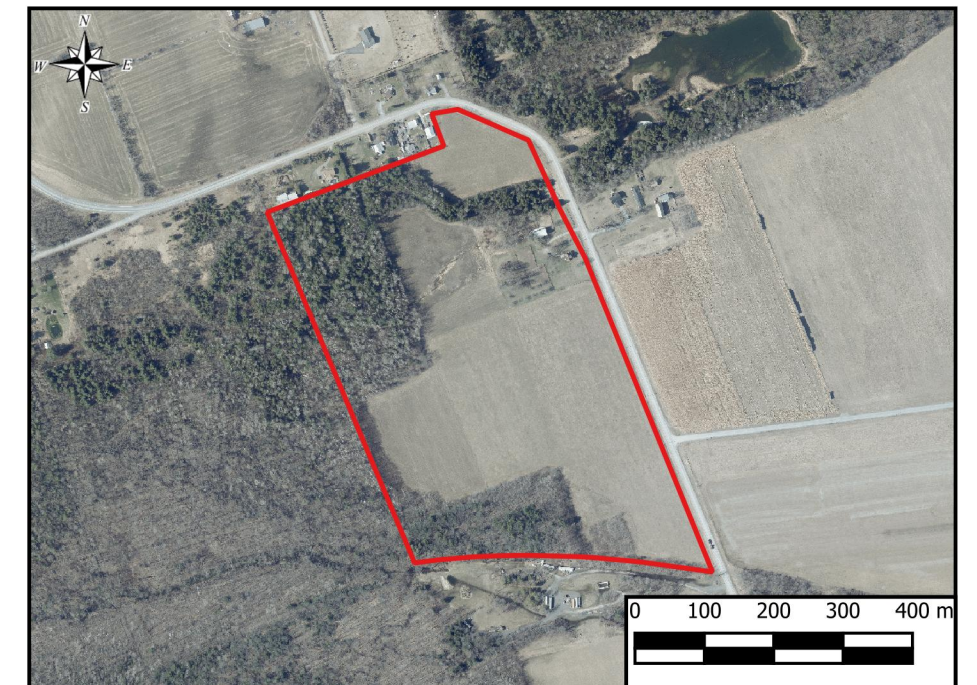
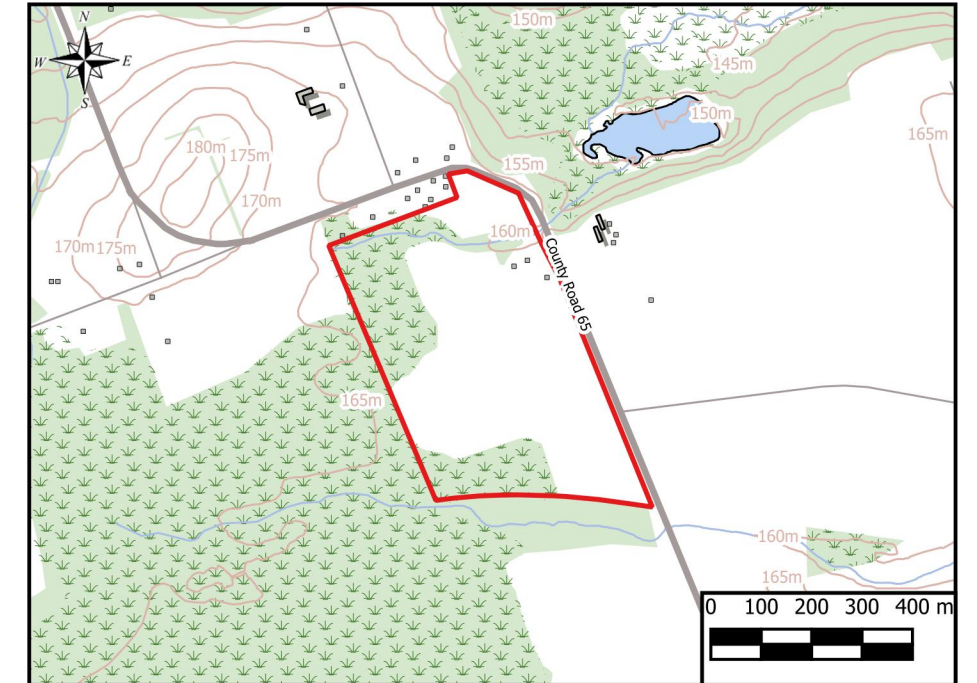
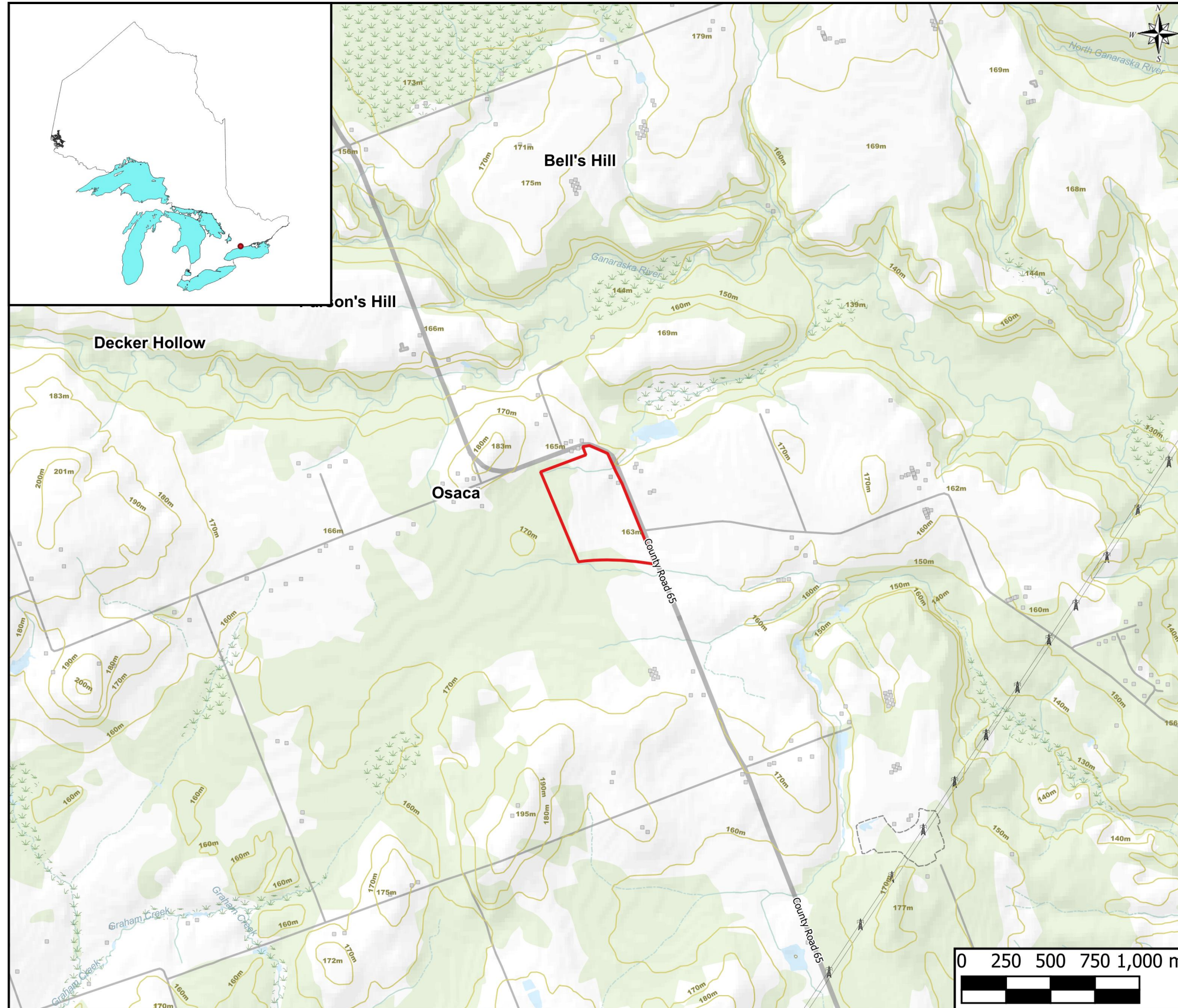


Image 25: Location 1 Artifact.



9.0 Maps





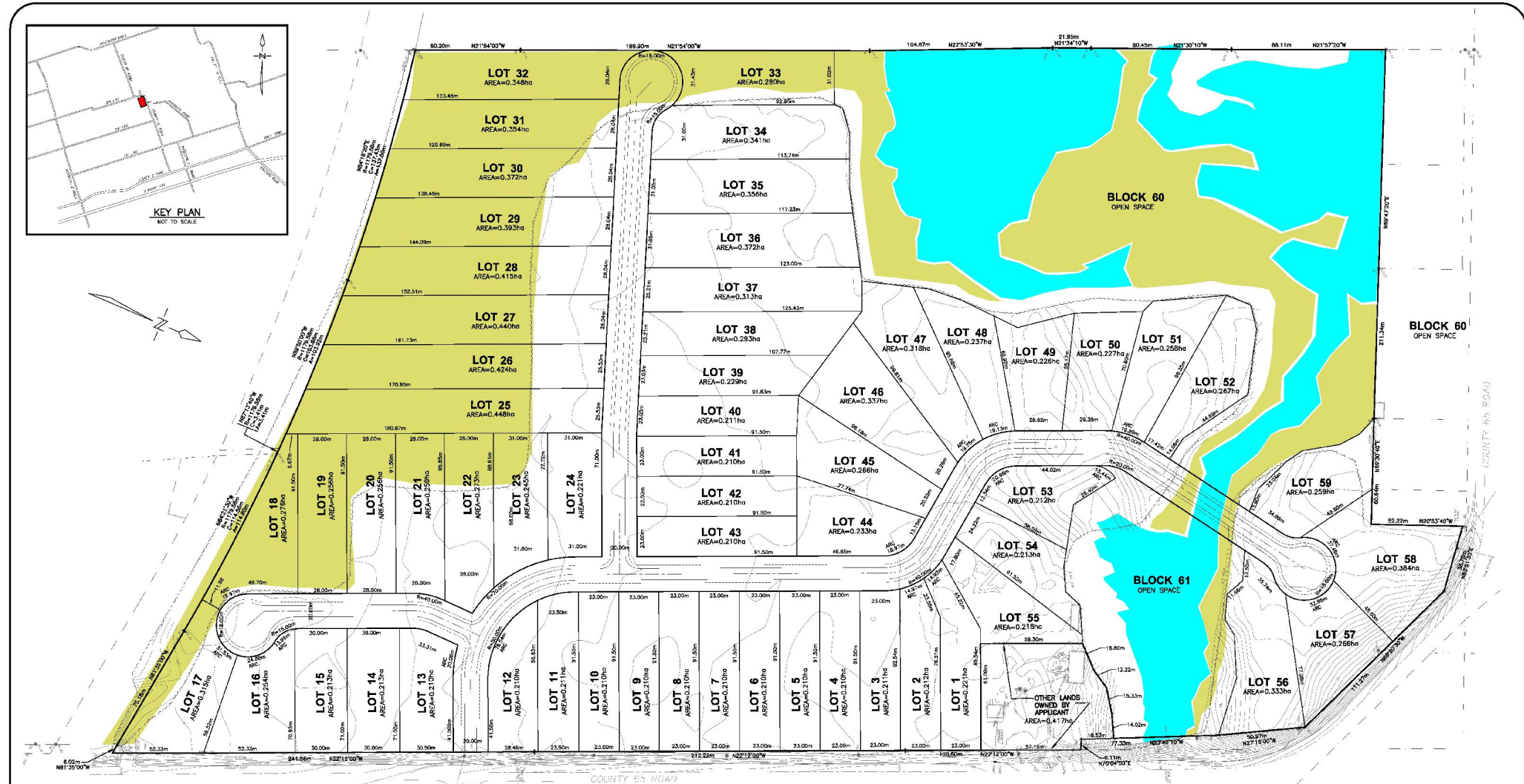
Legend

 Study Area

Reference:
Canvec Data. Scale 1:50000
Ontario Basic Mapping. Scale 1:10000
Port Hope SCOOP 2018 Aerial Imagery

Map 1: Regional Map

Earthworks Archaeological Services Inc.
 Stage 1 & 2 Archaeological Assessment
 5868 County 65 Rd
 Osaca



LAND USE SCHEDULE				
PROPOSED USE	LOT/BLK #	# OF LOTS/BLKS	# OF UNITS	AREA (ha)
LOW DENSITY RESIDENTIAL SINGLE DETACHED	LOTS 1 - 59	59	59	16.012
NON RESIDENTIAL OPEN SPACE ROADS	BLOCKS 60 & 61 20.0m ROW	2	2	6.378 2.223
TOTALS		61	59	24.623

ADDITIONAL INFORMATION REQUIRED UNDER SECTION 51 OF THE PLANNING ACT			
E	NORTH	-RURAL RESIDENTIAL	
S	SOUTH	-RURAL RESIDENTIAL	
E	EAST	-AGRICULTURAL	
W	WEST	-AGRICULTURAL	
M		-PIPED MUNICIPAL WATER	
T		-TILL	
K		-NO MUNICIPAL SERVICES AVAILABLE	

OWNER'S AUTHORIZATION	SURVEYOR'S CERTIFICATE
I/WE, LAND OWNER BEING THE REGISTERED OWNER OF THE SUBJECT LANDS HEREBY AUTHORIZE D.G. BIDDLE AND ASSOC. LTD. TO PREPARE AND SUBMIT A DRAFT PLAN OF SUBDIVISION FOR APPROVAL. SIGNED: _____ TITLE: _____ DATE: _____	I HEREBY CERTIFY THAT THE BOUNDARY OF THE LANDS TO BE SUBDIVIDED AS SHOWN ON THIS PLAN AND THEIR RELATIONSHIP TO ADJACENT LANDS ARE ACCURATELY AND CORRECTLY SHOWN. ONTARIO LAND SURVEYOR OWNED LAND SURVEYORS SIGNED: _____ DLS: _____ DATE: _____

PRELIMINARY DRAFT PLAN

PART OF LOT 27, CONCESSION 5
 FORMERLY IN THE TOWNSHIP OF HOPE
 NOW IN THE
MUNICIPALITY OF PORT HOPE
 COUNTY OF NORTHUMBERLAND

SCALE: 1:1000	122049
DRAWN BY: B.B.	DP-1
DESIGN BY: M.F.	
CHECKED BY: M.F.	
PLOT DATE: 26/06/2022	

D.G. Biddle & Associates Limited
 consulting engineers and planners
 66 KING STREET EAST - OSACA, ON L1H 1R6
 PHONE (905) 878-8500 • FAX (905) 878-8730
 info@dgbiddle.com

Map 2: Site Plan

Tile 1 - 1861



Tile 2 - 1878



Legend

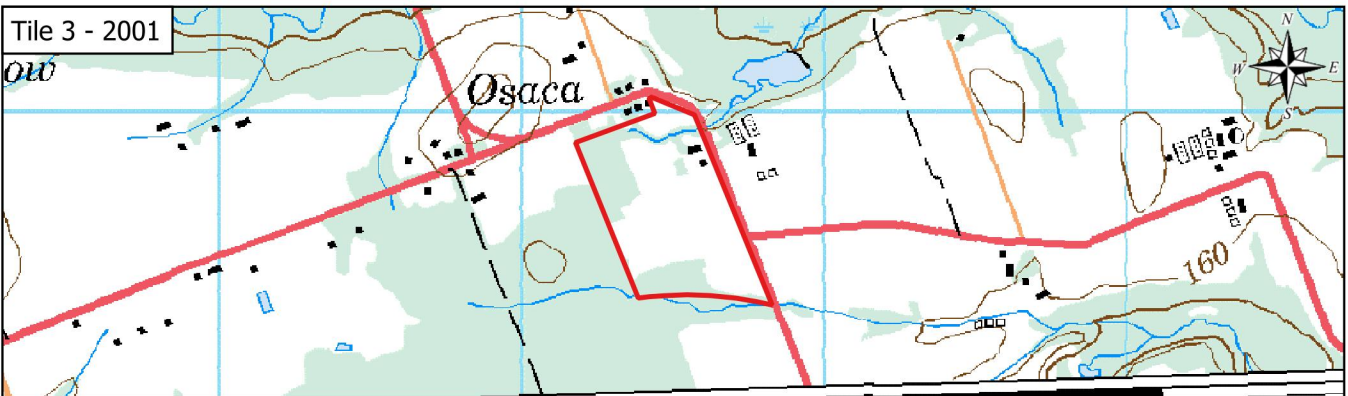
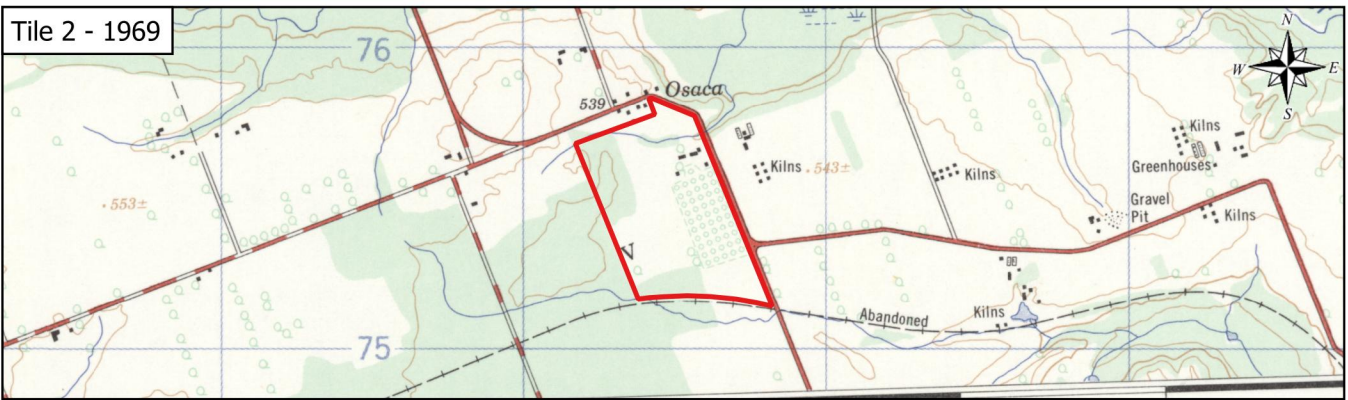
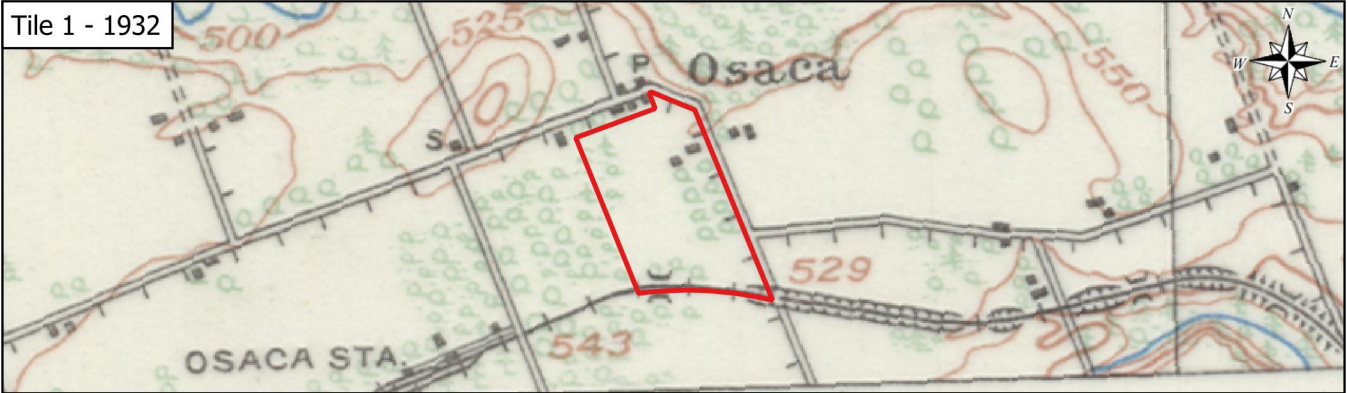
 Study Area

Not to Scale

Tile 1 - Tremaine's Map of the County of Durham, Upper Canada. Drawn by John Shier Esq. P.L.S. C.E. Assisted by Mr. John F. Ward. Published by Geo C. Tremaine. Toronto, 1861.

Tile 2 - Illustrated historical atlas of the counties of Northumberland and Durham, Ont. H. Belden & Co. 1878

Map 3: Nineteenth Century Historic Mapping



Legend

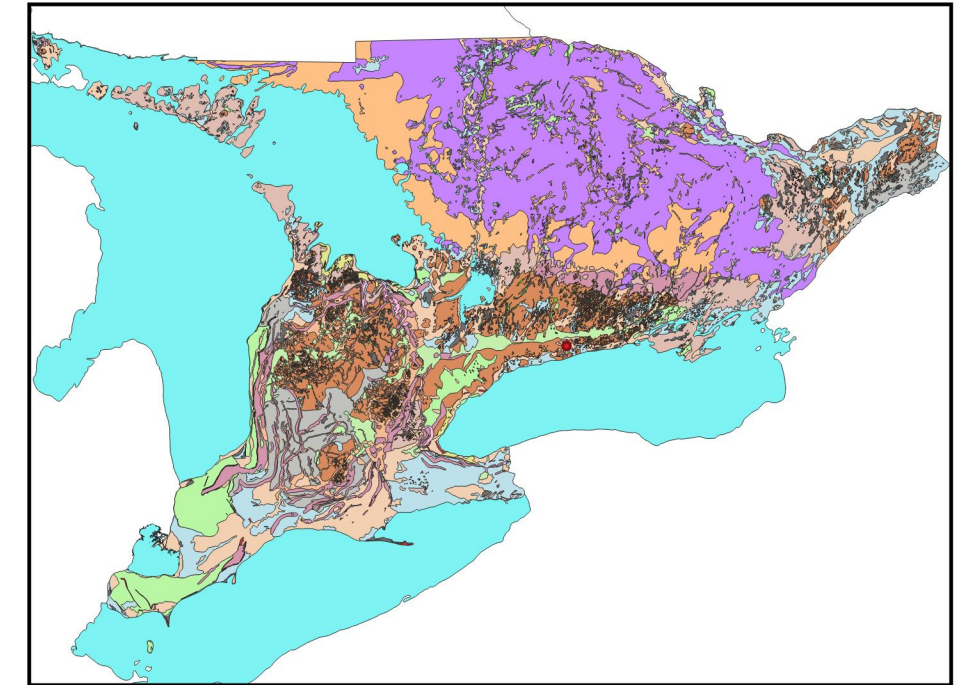
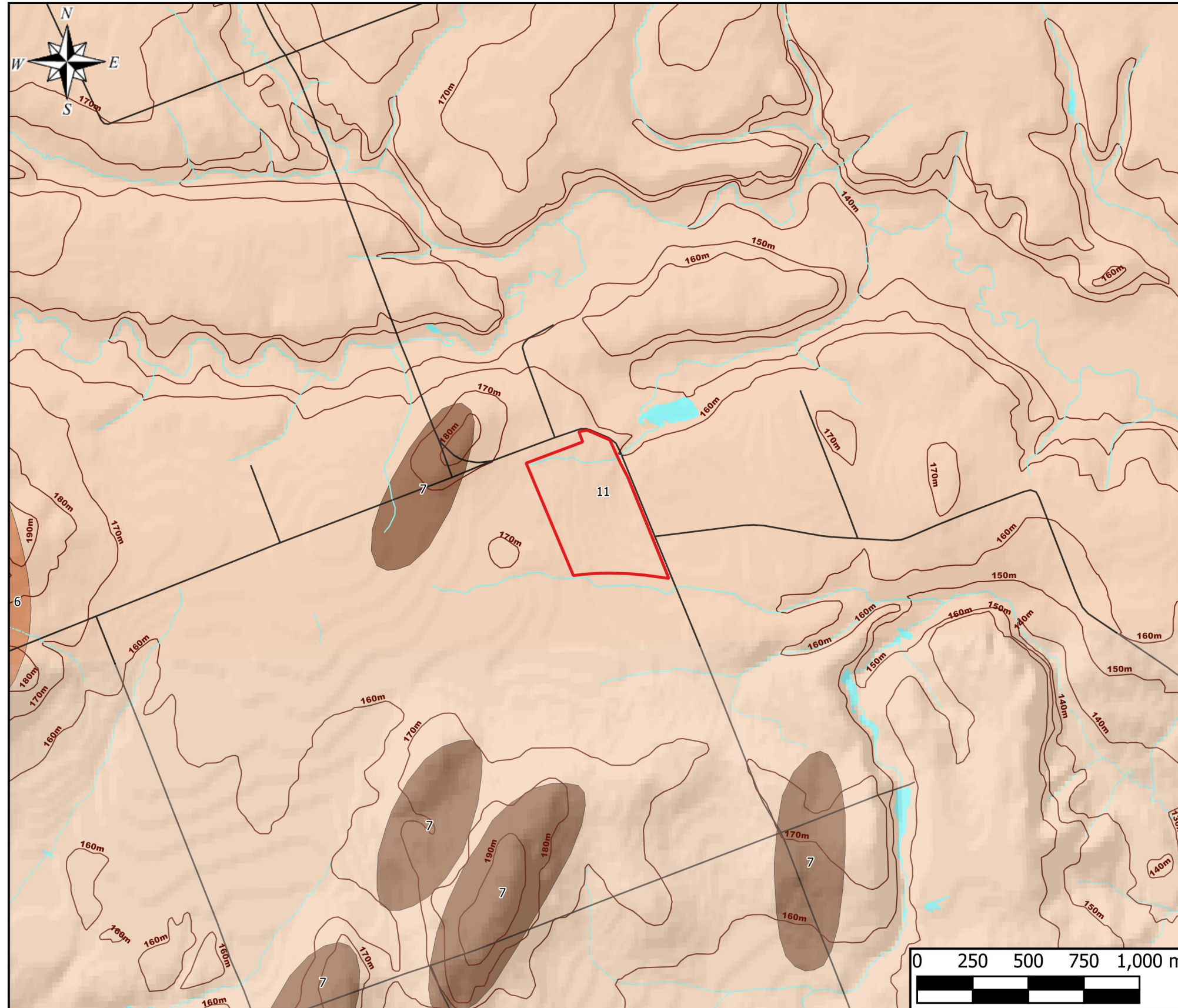
 Study Area

Tile 1 - Canada, Department of Militia and Defence [Department of National Defence], Rice Lake, Ontario. 1:63,360. Map Sheet 031D01, [ed. 1], 1932.
 Tile 2 - Canada, Department of National Defence. Garden Hill, Ontario. 1:25,000. Map Sheet 031D01/D, [ed. 1], 1969.
 Tile 3 - Canada, Natural Resources Canada. Rice Lake, Ontario. 1:50,000. Map Sheet 31 D/1, ed. 7, 2001.



Map 4: Twentieth Century Topographic Mapping



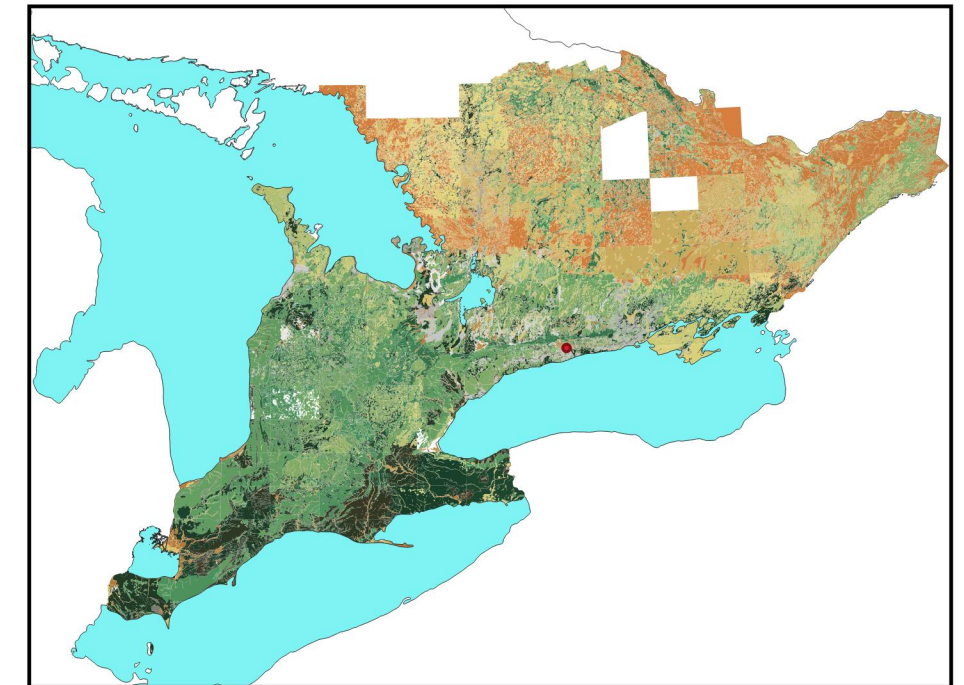
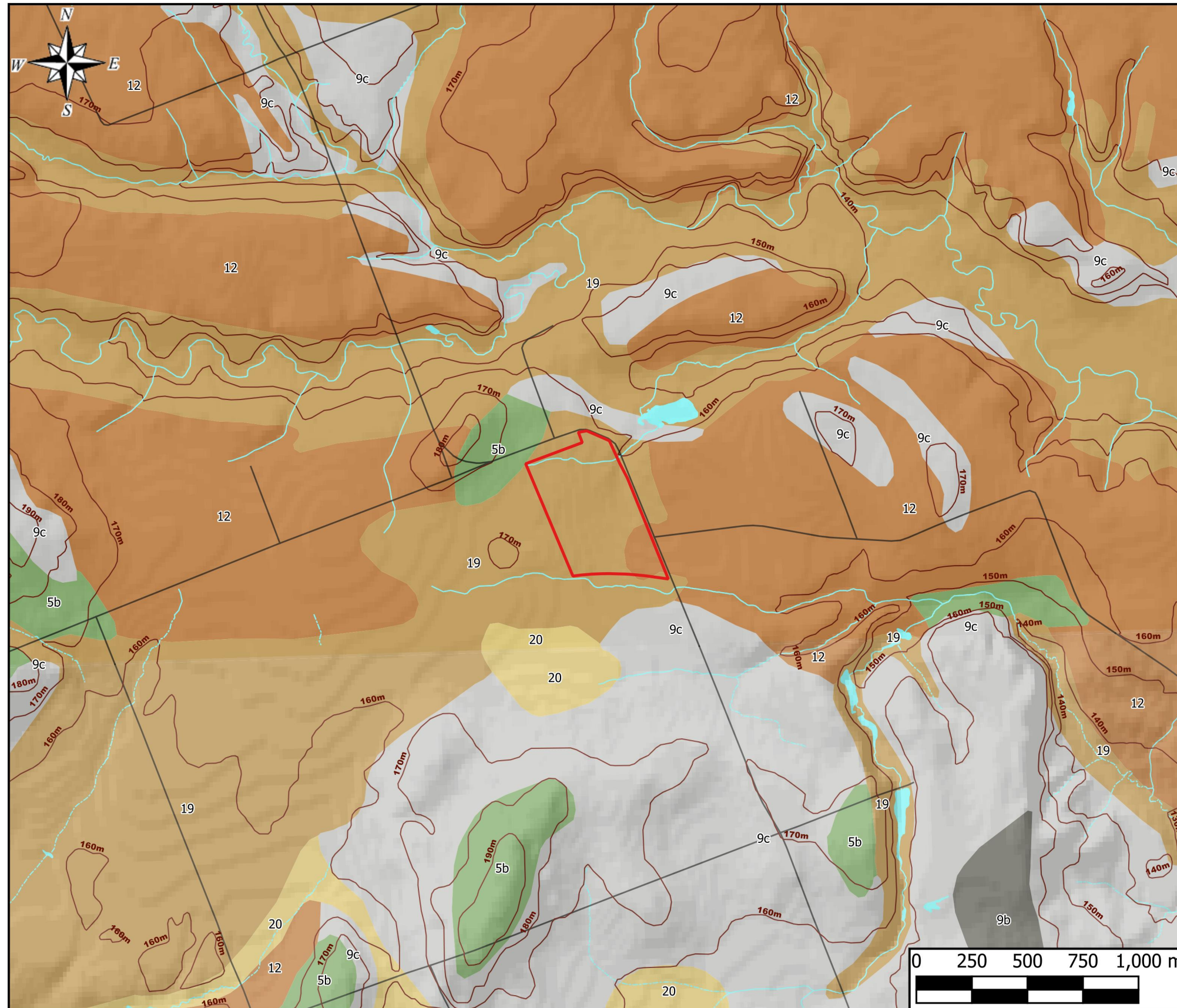


Legend

- Study Area
- Road Network
- 6 - Till Plains (Drumlinized)
- 7 - Drumlins
- 11 - Sand Plains

Base Data:
Chapman, L.J. and Putnam, D.F. 2007. Physiography of southern Ontario; Ontario Geological Survey, Miscellaneous Release—Data 228.

Map 5: Physiographic Landforms

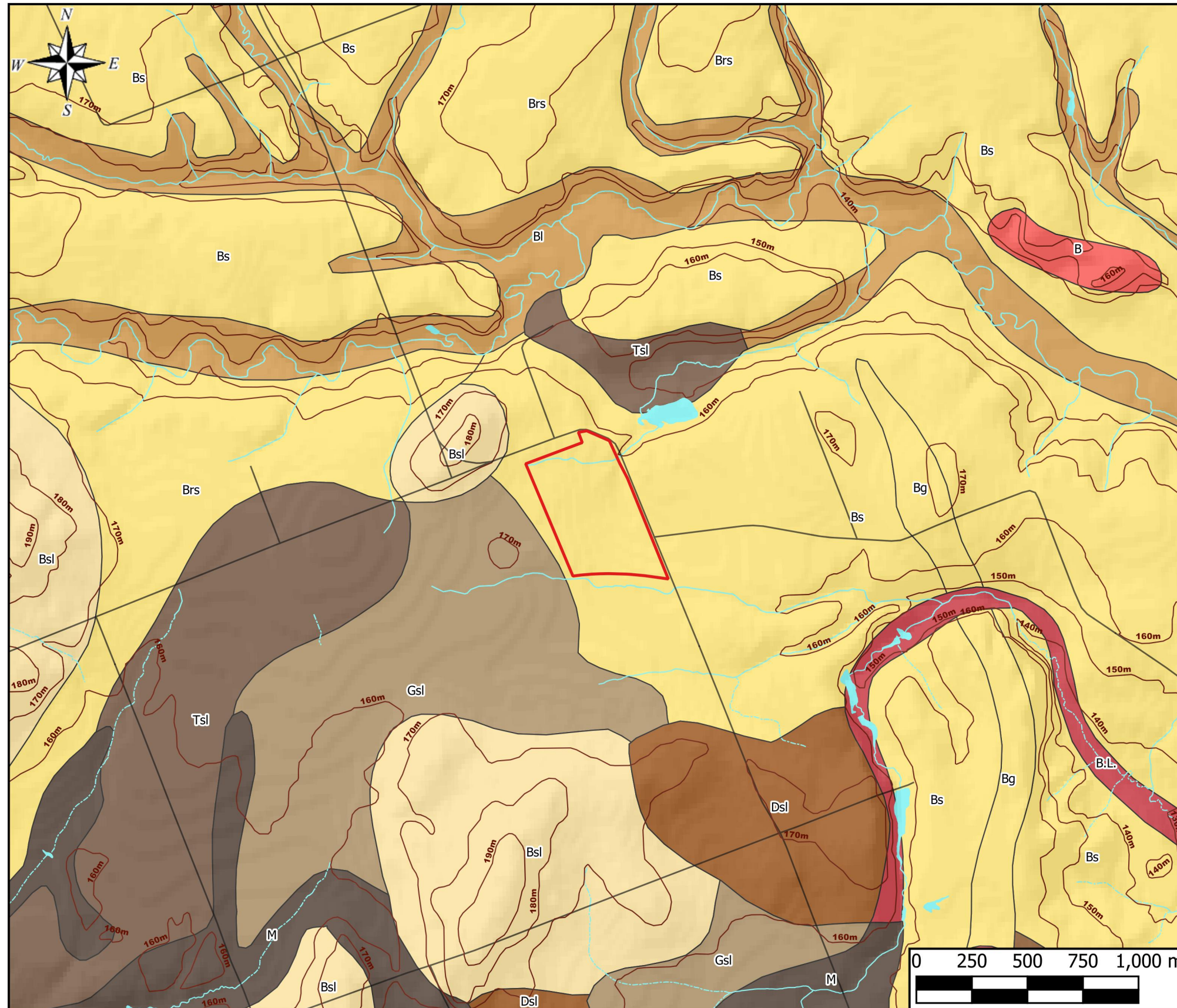


Legend

- Study Area
- Road Network
- 5b - sandy silt to sand till; 3% stone content
- 9b - Gravelly sand and gravel; 1-5m thick; raised shorelines
- 9c - Sand and silty sand; 1->50m thick
- 12 - Gravel, sand, silt, clay; 1-8m thick
- 19 - Gravel, sand, silt, clay, muck; 1-2m thick
- 20 - Peat, muck, and marl; 1-7m thick; occurs in wetlands

Base Data:
 Ontario Geological Survey 2010. Surficial geology of Southern Ontario; Ontario Geological Survey, Miscellaneous Release--Data
 128-REV ISBN 978-1-4435-2483-4

Map 6: Surficial Geology

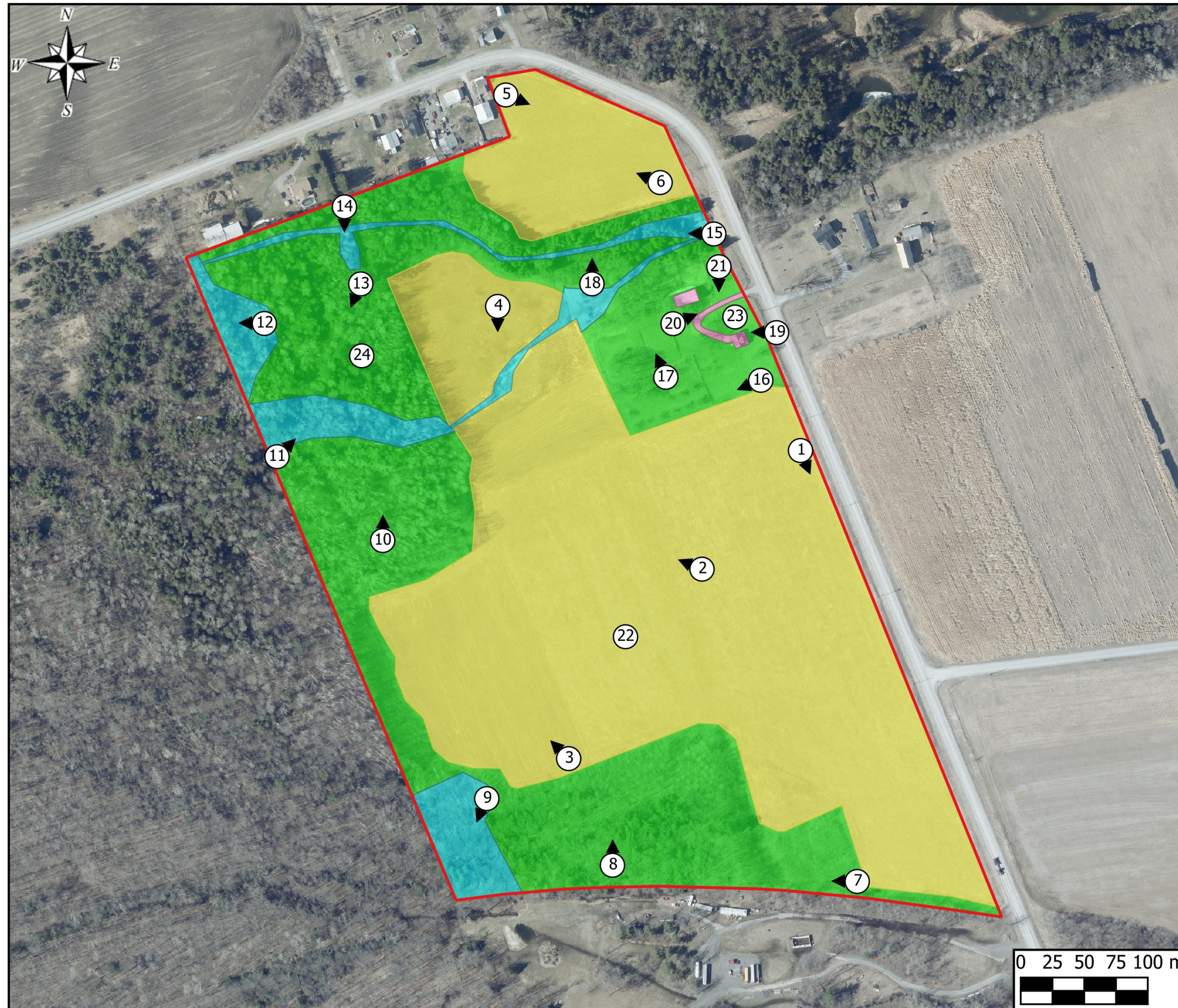


Legend

- Study Area
- Road Network
- B - Bridgman Sand
- B.L. - Bottom Land
- Bg - Brighton Gravelly Sand
- Bl - Bondhead Loam
- Brs - Brighton Sandy Loam
- Bs - Brighton Sand
- Bsl - Bondhead Fine Sandy Loam
- Dsl - Dundonald Sandy Loam
- Gsl - Granby Sandy Loam
- Gu-b - Guerin Sandy Loam - Bouldery
- M - Muck
- Pl - Percy Loam
- Tsl - Tecumseth Sandy Loam

Reference:
 Soil Map of Durham County. Soil Survey Report No. 9. Scale 1:63,360

Map 7: Regional Soil Map



Legend

- Study Area
- Area Subject to Stage 2 Pedestrian Survey at 5 metre intervals
- Area Subject to Stage 2 Test Pit Survey at 5 metre intervals
- Area of Permanent Inundation - Not Assessed
- Area of Subsurface Disturbance - Not Assessed
- Photo Location and Direction

Reference:
Port Hope SCOOP 2018 Aerial Imagery

**Map 8: Stage 2
Assessment Results**