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Stage 1 & 2 Archaeological Assessment

Proposed Development

4336 Willick Road, Niagara Falls, Part of Lot 18, Concession 3, Geographic Township of Willoughby, Regional Municipality of Niagara, Ontario

Original Report

Prepared for:

Ontario Ministry of Citizenship and Multiculturalism

Prepared by:

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PIF#: P066-0407-2024

Project No. 273-12-24

3 February 2025

EXECUTIVE SUMMARY

Archaeological Consultants Canada (ACC) was contracted by the Proponent to conduct a Stage 1 & 2 archaeological resource assessment including background research and property survey as part for a proposed development. The development includes 74 residential townhouses and roadways. An archaeological assessment was required as part of the pre-approval process for future development under the *Planning Act, R.S.O. 1990*. The area of assessment, or the “subject property”, is located at 4336 Willick Road, Niagara Falls, Part of Lot 18, Concession 3, Geographic Township of Willoughby, Regional Municipality of Niagara, Ontario. The subject property measures 2.50 hectares (ha) in size (Figure 1). The Proponent verified the limits of the subject property as defined in this report and provided a Concept Plan (Figure 2) for the project.

The Stage 1 & 2 assessment was conducted under Professional Archaeological License P066, held by Kristy O’Neal. Fieldwork was conducted under the direction of Leah Peacock (R1273). The Ontario Ministry of Citizenship and Multiculturalism (MCM) assigned Project Information Form (PIF) number P066-0407-2024 (Stage 1 & 2) to this project. The licensee of ACC received permission from the Proponent to access the property and to conduct all required archaeological fieldwork activities including the removal of artifacts, as necessary.

Stage 1 background research indicated that the subject property has general archaeological potential due to the following factors:

- The presence of a historical homestead located partially within the subject property (Page & Co., 1876).
- The subject property fronts Sodom Road, and Willick Road, two early historical transportation routes (Tremaine, 1862; Page & Co., 1876).
- Twenty- three archaeological sites have been registered within 1 km of the subject property.

The subject property measures 2.50 ha. A visual property inspection determined that 0.24 ha of the subject property has been previously disturbed by modern construction activities and has low to no archaeological potential.

2.26 ha of the subject property retained archaeological potential and was recommended for Stage 2 assessment. 1.84 ha of the subject property consisted of agricultural field that was assessed by means of pedestrian survey at 5 m intervals. 0.42 ha of the subject property consisted of wood rows or manicured greenspace and was assessed by test pit survey at 5 m intervals.

No artifacts or other archaeological resources were identified during the Stage 2 archaeological assessment.

The following recommendation is provided for consideration by the Proponent and by the MCM:

1. No artifacts or other archaeological resources were identified during the Stage 1 & 2 archaeological assessment. The subject property has now been fully assessed according to the Ontario Ministry of Citizenship and Multiculturalism’s 2011 *Standards and*



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Guidelines for Consultant Archaeologists. No further archaeological assessment of the property is required.



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LIST OF ABBREVIATIONS

The following is a list of abbreviations and acronyms used throughout this report.

ACC	Archaeological Consultants Canada
CHVI	Cultural Heritage Value or Interest
cm	centimetre
ha	hectares
km	kilometre
m	metre
MCM	Ministry of Citizenship and Multiculturalism
MHC	Mayer Heritage Consultants Inc.
MTR	Mechanical Topsoil Removal
OASD	Ontario Archaeological Sites Database
PIF	Project Information Form
%	percent
TLA	This Land Archaeology Inc.



PROJECT PERSONNEL

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Field Director:	Leah Peacock, B.A., R1273
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Stage 1 & 2 Archaeological Assessment

Proposed Development

4336 Willick Road, Niagara Falls, Part of Lot 18, Concession 3,
Geographic Township of Willoughby, Regional Municipality of
Niagara, Ontario

1.0 PROJECT CONTEXT

1.1 Development Context

Archaeological Consultants Canada (ACC) was contracted by the Proponent to conduct a Stage 1 & 2 archaeological resource assessment including background research and property survey as part of a proposed development. The development includes 74 residential townhouses and roadways. An archaeological assessment was required as part of the pre-approval process for future development under the *Planning Act, R.S.O. 1990*. The area of assessment, or the “subject property”, is located at 4336 Willick Road, Niagara Falls, Part of Lot 18, Concession 3, Geographic Township of Willoughby, Regional Municipality of Niagara, Ontario. The subject property measures 2.50 hectares (ha) in size (Figure 1). The Proponent verified the limits of the subject property as defined in this report and provided a Concept Plan (Figure 2) for the project.

The objective of a Stage 1 background study is to provide information about the subject property’s geography, history, previous archaeological fieldwork, and current land conditions. A Stage 1 study evaluates the subject property’s archaeological potential in order to recommend appropriate strategies for the Stage 2 survey.

The objective of a Stage 2 property assessment is to document all archaeological resources present on the property and to make a determination about whether these resources, if present, have Cultural Heritage Value or Interest (CHVI). Archaeological resources consist of artifacts (Indigenous stone tools, pottery and subsistence remains as well as Euro-Canadian objects), subsurface settlement patterns and cultural features (post moulds, trash pits, privies, and wells), and sites (temporary camps and special purpose activity areas, plus more permanent settlements such as villages, homesteads, grist mills and industrial structures). If any archaeological resources are present that exhibit CHVI, a Stage 2 survey will determine whether these resources require further assessment and, if necessary, recommend appropriate Stage 3 strategies for identified archaeological sites.

The Stage 1 & 2 assessment was conducted under Professional Archaeological License P066, held by Kristy O’Neal. Fieldwork was conducted under the direction of Leah Peacock (R1273). The Ontario Ministry of Citizenship and Multiculturalism (MCM) assigned Project Information Form (PIF) number P066-0407-2024 (Stage 1 & 2) to this project. The licensee of ACC received permission from the Proponent to access the property and to conduct all required archaeological



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fieldwork activities including the removal of artifacts, as necessary. The property was accessed on October 28, 2024.

All fieldwork and reporting were completed using MCM's 2011 *Standards and Guidelines for Consultant Archaeologists*. This report documents the research, the field methods and results, and the conclusions and recommendations based on the Stage 1 & 2 archaeological assessment. All documents and records related to this project will be curated at the offices of ACC, in accordance with subsection 66(1) of the *Ontario Heritage Act* (OHA).

1.2 Historical Context

1.2.1 Background Research

Stage 1 background research was conducted to determine the potential for finding and identifying archaeological resources including sites within the current subject property and to determine the necessity of conducting a Stage 2 survey. This is done by reviewing geographic, archaeological, and historical data for the property and the surrounding area. The background research was conducted to:

- amass all the readily available information on any previous archaeological surveys in the area.
- determine the locations of any registered and unregistered sites within and around the subject property.
- develop an historical framework for assigning levels of potential significance to any new sites discovered during fieldwork.

1.2.2 A Cultural Chronology for Southern Ontario

Over their thousands of years of occupation in the general region, Indigenous peoples have left behind, to a greater or lesser degree, physical evidence of their lifeway activities and settlements at many locations. Based upon a published synthesis of Indigenous cultural occupations (Wright, 1968). Table 1 is a general outline of the cultural history of southern Ontario that is applicable to the subject property. Ellis and Ferris (1990) provide greater detail of the distinctive characteristics of each time period and cultural group.

It is likely that Ontario was occupied soon after the retreat of the Ice Age glaciers. The earliest known human occupation in the area was during the Paleoindian period (between 12,000 and 9,500 years ago) wherein small groups of nomadic peoples hunted big game such as caribou in a cool sub-arctic climate. Sites are typically found near glacial features such as the shorelines of glacial lakes or kettle ponds which would have allowed access to the low-lying environments that were favoured by the caribou and other wildlife. These people were few and their small, temporary campsites are relatively rare. Paleoindian sites are recognized by the presence of distinctive artifacts such as fluted projectile points, beaked scrapers, and gravers and by the preference for light colored cherts, such as Collingwood chert. The Paleoindian Period is divided into two sub-periods, Early Paleoindian, and Late Paleoindian.

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Table 1: General Cultural Chronology for Southern Ontario

PERIOD	SUBDIVISION I	SUBDIVISION II	YEARS BEFORE PRESENT	COMMENTS
PALEOINDIAN	Early Paleoindian	Fluted Point Horizon	12,000-10,500	big game hunters
	Late Paleoindian	Holcombe & Hi-Lo Horizons	10,500-9,500	small nomadic groups
ARCHAIC	Early Archaic	Side Notched Horizon	10,000-9,700	nomadic hunters and gatherers
		Corner-Notched Horizon	9,700-8,900	
		Bifurcate Horizon	8,900-8,000	
	Middle Archaic	Middle Archaic I/Stemmed Horizon	8,000-5,500	territorial settlements
		Middle Archaic II	5,500-4,500	polished ground stone tools
	Late Archaic	Narrow Point Horizon	4,500-3,500	
		Broad Point Horizon	4,000-3,500	
		Small Point Horizon (including Haldimand and Glacial Kame Complexes)	3,500-2,800	burial ceremonialism
WOODLAND	Early Woodland	Meadowood Complex	2,900-2,400	introduction of pottery
		Middlesex Complex	2,500-2,000	
	Middle Woodland	SW Ontario: Saugeen	2,300-1,500	long distance trade networks
		Western Basin: Couture	2,300-1,500	
	Transitional Woodland	SW Ontario:		
		Princess Point	1,500/1,400-1,200	incipient agriculture
		Western Basin:		
		Riviere au Vase	1500/1400-1200/1100	
	Late Woodland: Ontario Iroquois Tradition	Early: Glen Meyer	1200/100-750/700	transition to village life
		Middle I: Uren	720/700-710/670	large villages with palisades
		Middle II: Middleport	710/670-670/600	wide distribution of ceramic styles
		Late: Neutral	600-450	
	Late Woodland: Western Basin Tradition	Younge Phase	1200/1100-800	
		Springwells Phase	800-600	
		Wolf Phase	600-450	
HISTORIC	SW Ontario Iroquois	Historic Neutral	450-350	tribal warfare
	European Contact	Initial Contact	380-300	tribal displacement
		European Settlement	200 >	European settlement
		First Nations Resettlement	200 >	

(Compiled from Adams, 1994, Ellis *et al.*, 1990, Wright, 1968)

People during the Archaic period (*circa* 10,00 to 500 years ago) were still primarily nomadic hunters, but they adapted to a more temperate climate. Groups were dispersed during winter months and converged around watercourses from the spring to fall in large fishing campsites. The Archaic period is characterized by the appearance of ground stone tools, notched, or stemmed projectile points. The Archaic Period is divided into three sub-periods, Early, Middle, and Late Archaic. During the Archaic Period, groups began to establish territorial settlements



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and introduce burial ceremonialism. There is a marked increase in the number and size of sites, especially during the Late Archaic period.

The Woodland period is distinguished by the introduction of pottery vessels for storage and cooking. Sites of the Woodland period (*circa* 3000 to 400 years ago) are usually the most numerous because the population levels in southern Ontario had significantly increased, especially along the shores of Lakes Erie and Ontario. The Woodland Period is also marked by the establishment of complex long distance trading networks. The Woodland Period is divided into three sub-periods, Early, Middle and Late Woodland. During the Late Woodland Period, there is increasing sedentarism and the establishment of horticulture, a reliance on tribal warfare, and the introduction of semi-permanent villages with large protective palisades. The Late Woodland period also envelops the emergence of Iroquoian tribes and confederacies.

The historic period (from A.D. 1650 to 1900) begins with the arrival of Euro-Canadian groups. Sites of this period document European exploration, trade, and the displacement and devastation of native groups caused by warfare and infectious disease. The most common sites of this period include Euro-Canadian homesteads, industries, churches, schools, and cemeteries.

While North America had been visited by Europeans on an increasing scale since the end of the 15th century, the first European to venture into what would become southern Ontario was Étienne Brûlé. Brûlé was sent by Samuel de Champlain in the summer of 1610 to consolidate an emerging friendship between the French and the First Nations, and to learn their languages and customs. Other Europeans would subsequently be sent by the French to train as interpreters. These men played an essential role in communications with the First Nations (Gervais and Rothe, 2004:182).

The late 17th and early 18th centuries saw the growth and spread of the fur trade, with the establishment and maintenance of trading posts along the Great Lakes. In 1754, hostilities over trade and the territorial ambitions of the French and the British led to the Seven Years' War, which ended when the French surrendered in 1760 (Smith, 1987:22). In addition to cementing British control over the Province of Quebec, the British victory over the French also proved pivotal in catalyzing the Euro-Canadian settlement process.

During pre-contact and early contact times, the vicinity of the subject property would have contained a mixture of deciduous trees, coniferous trees, and open areas. In the early 19th century, Euro-Canadian settlers arrived via easily accessible colonization routes and began to clear the forests for agricultural purposes. In the 19th and early 20th centuries, the subject property and surrounding land were primarily used for agricultural purposes, Mixed farming was common, with wheat crops and beef cattle dominating the landscape (Chapman and Putnam, 1984:177).

The subject property was historically located on Part of Lot 18, Concession 3, Willoughby Township, Welland County. In 1791, the provinces of Lower Canada and Upper Canada were created from the former province of Quebec by a British parliamentary act. Colonel John Graves Simcoe was appointed as the Lieutenant Governor of Upper Canada and was tasked with

governing and directing its settlement, as well as establishing a constitutional government based on Britain's model (Coyne et al, 1895:33).

Welland County was formed in 1851, when land from the southern section of Lincoln County broke away (Mika & Mika, 1983). The county was named after the Welland River, which, in turn, was named by John Graves Simcoe, after a stream in Lincolnshire, England (Middleton, 1927). The townships in this county were among the earliest settlements in Upper Canada, made up of United Empire Loyalists who came to the area after the American Revolutionary war (Carter, 1984). The building of the first Welland Canal in the 1820's also helped stimulate the growth of settlement in the area (Mika & Mika, 1983). The earliest recorded European visitor to the county is Father Louis Hennepin, who explored the area as a missionary in 1678. He is best known for publishing an account of his travels, which include the first written description of Niagara Falls, published in 1689 (Page, 1876).

Willoughby Township was first settled in 1784 and was surveyed in 1787 (Armstrong, 1930). These first settlers were mainly United Empire Loyalists escaping the American Revolution. More groups of pacifist Pennsylvania Dutch families arrived in the 1790s. The nineteenth century saw increasing settlement, mainly by German-speaking farmers from Switzerland, and other German regions attracted by cheap land (Page, 1876). Within Willoughby Township is the site of the Battle of Chippawa, fought between British and American forces on July 5, 1814 (Page, 1876).

The nearest historic community was the village of Chippewa, located 1.94 kilometres (km) to the northeast of the subject property. This community was settled in 1799 known as Fort Welland. A post office under the name Chippewa was opened in 1801, while the area was incorporated as a village in 1849 (Carter, 1984).

Historical records and mapping were examined for evidence of early Euro-Canadian occupation within and near the subject property. Figures 3 and 4 represent the Euro-Canadian settlement in and around the current subject property in the late 19th century. Tremaine's 1862 *Map of the County of Welland, Canada West* indicates that at that time James Cummings was the owner of Lot 18, Concession 3 (Figure 3). There are no structures depicted within the subject property. Sodom Road is depicted to the east of the subject property. Lyons Creek is depicted approximately 600 m west of the subject property.

H.R. Page & Co.'s 1876 map of Willoughby Township in the *Illustrated Historical Atlas of the counties of Lincoln and Welland* indicates that George Dencer owned Lot 18, Concession 3 (Figure 4). George Dencer is listed in the 1881 census as a 48-year-old farmer from Germany living with his wife Catherine aged 50, and their seven children; Elizabeth, 22; George, 20; John, 19; Kate, 17; Martin, 16; Carolin, 14, and Mary, 13 (Library and Archives, 1881). There is one structure depicted, located partially within the subject property. Sodom road is in the same location as the previous map, however there is now a road depicted north of the subject property, the present Willick Road.

It should be noted that while one structure is depicted within the subject property on the historical atlas mapping, this does not necessarily mean that one or more additional structures were not present at that time, earlier or later. Not all features of interest were mapped



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systematically on the Ontario series of historical maps and atlases, given that they were financed by subscription, and subscribers were given preference regarding the level of detail provided on the maps (Caston, 1977:100). Given that the subject property fronts two historic concession roads there is the potential for 19th century buildings to be present, depending on the level of disturbance.

1.3 Archaeological Context

1.3.1 Natural Environment

The subject property is located within the Haldimand Clay Plain physiographic region (Chapman and Putnam, 1984:113). Lying between the Niagara Escarpment and Lake Erie, this area is made up of a series of parallel belts that were once submerged in Lake Warren. The highest ground adjoins the Niagara Escarpment. The main part of Welland County is characterized by level topography and poor drainage and several square miles are covered in peat bogs. The drainage in the belt is controlled by several parallel streams, such as Twenty Mile Creek, Forty Mile Creek, and the Welland River (Chapman and Putman, 1984:157).

The *Soils of the Regional Municipality of Niagara* (Kingston & Presant, 1989) indicates the dominant surface soil types within the subject property (Figure 5). Niagara soil, this soil consists of a mainly reddish hued lacustrine heavy clay. The soil has imperfect to poor drainage. The area has smooth basin to level topography.

Water has been identified as the major determinant of site selection, and the presence of potable water is the single most important resource necessary for any extended human occupation or settlement. Primary water sources include, among others, lakes, rivers, creeks, and streams. Secondary water sources include intermittent streams, creeks, springs, marshes, and swamps. Past water sources, such as raised beach ridges, relic water channels, and glacial shorelines are also considered to have archaeological potential. Swamps and marshes are also important as resource extraction areas, and any resource areas are considered to have archaeological potential. The nearest water source is Lyons Creek, located 600 metres (m) northwest of the subject property. Lyons Creek connected to the Welland River, which is located approximately 1.06 km north of the subject property.

1.3.2 Current Land Use

Figure 6 shows the current land use of the subject property. The west portion of the subject property consists of woodlot, a residential building, a commercial building and multiple outbuildings. The eastern portion of the subject property consists of ploughed agricultural field. The subject property is located within a rural area of the city of Niagara Falls. Willick Road is north, Sodom Road is east, agricultural fields are south and residential houses are west.

Fieldwork for the project was completed on October 28, 2024.



1.3.3 Previous Archaeological Investigations

1.3.3.1 Registered Archaeological Sites

Previously registered archaeological sites can be used to indicate archaeological potential. To determine if any previous assessments have yielded archaeological sites, either within or surrounding the current subject property, two main sources were consulted. These include the *Ontario Archaeological Sites Database* (OASD) and the *Public Register of Archaeological Reports*, both of which are maintained by MCM.

The OASD contains archaeological sites registered within the Borden system (Borden, 1952). The Borden system divides Canada into 13 km by 18.5 km blocks based on longitude and latitude. Each Borden block is designated with a four-letter label and sites identified within the block are numbered sequentially as they are registered. The subject property is located within the AgGs Borden block.

According to the OASD, no archaeological sites have been registered within the subject property, however, twenty- three sites have been registered within 1 km of the subject property (MCM, 2025a). Two are Euro-Canadian or have a Euro-Canadian component. Four are Indigenous or have an Indigenous component. Seventeen sites are of unknown cultural affiliation. Sites include campsites, scatters, homesteads, and findspots.

Table 2 lists the sites within 1 km along with the current Cultural Heritage Value or Interest (CHVI) for each site. CHVI is a term used by MCM and consultant archaeologists to describe archaeological resources that meet one or more criteria that recommend further fieldwork in MCM's *Standards and Guidelines for Consultant Archaeologists*. Under the *Ontario Heritage Act* and its regulations, archaeological resources that have been determined to possess CHVI are protected as archaeological sites under Section 48 of the act. Information in Table 2 is provided by MCM through the OASD (MCM, 2025a).

Table 2: Registered Archaeological Sites within 1 km of the Subject Property

BORDEN #	NAME	TIME PERIOD	CULTURAL AFFILIATION	SITE TYPE	STATUS
AgGs-46	Brindle	Archaic, Middle	Indigenous	Othercamp/campsite	Unknown
AgGs-396	H1	Post-Contact, Pre-Contact	Unknown	OtherTransitory Spot where tool retouching/sharpening occurred., Unknown	No Further CHVI
AgGs-371	Weaver 2	Post-Contact	Euro-Canadian	scatter	Unknown
AgGs-344	Weaver 1	Post-Contact	Euro-Canadian	homestead	Unknown
AgGs-343	AgGs-343-P1	Pre-Contact	Unknown	scatter	Unknown
AgGs-342	AgGs-342-P31	Pre-Contact	Unknown	Unknown	Unknown
AgGs-341	AgGs-341-P27	Archaic, Middle, Pre-Contact	Indigenous	Unknown	Unknown
AgGs-340	AgGs-340-P25	Archaic, Middle	Unknown	Unknown	Unknown
AgGs-339	AgGs-339-P23	Pre-Contact	Unknown	Unknown	Unknown
AgGs-338	AgGs-338-P21	Pre-Contact	Unknown	Unknown	Unknown

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BORDEN #	NAME	TIME PERIOD	CULTURAL AFFILIATION	SITE TYPE	STATUS
AgGs-337	AgGs-337-P20	Pre-Contact	Unknown	Unknown	Unknown
AgGs-336	AgGs-336-P15	Pre-Contact	Unknown	Unknown	Unknown
AgGs-335	AgGs-335-P13	Pre-Contact	Unknown	Unknown	Unknown
AgGs-334	AgGs-334-P12	Pre-Contact	Unknown	Unknown	Unknown
AgGs-333	AgGs-333-P10	Woodland, Late	Unknown	Unknown	Unknown
AgGs-332	AgGs-332-P9	Pre-Contact	Unknown	Unknown	Unknown
AgGs-331	AgGs-331-P6	Archaic, Middle	Unknown	Unknown	Unknown
AgGs-330	AgGs-330-P4	Pre-Contact	Unknown	Unknown	Unknown
AgGs-329	AgGs-328-P3	Pre-Contact	Unknown	Unknown	Unknown
AgGs-328	AgGs-328-P2	Woodland, Early	Unknown	Unknown	Unknown
AgGs-327	P1	Archaic	Unknown	Unknown	Unknown
AgGs-161		Archaic, Middle	Indigenous	findspot	Unknown
AgGs-1	Chippawa	Archaic	Indigenous	Unknown	Unknown

Information concerning specific site locations is protected by provincial policy and is not fully subject to the *Freedom of Information Act*. The release of such information in the past has led to looting or various forms of illegally conducted site destruction. Confidentiality extends to all media capable of conveying location, including maps, drawings, or textual descriptions of a site location. MCM will provide information concerning site location to the party or an agent of the party holding title to a property, or to a licensed archaeologist with relevant cultural resource management interests.

1.3.3.2 Previous Archaeological Reports

A review of archaeological reports within the *Public Register of Archaeological Reports* indicated that there are no archaeological reports detailing previous archaeological fieldwork within the subject property. There were three additional reports detailing fieldwork within 50 m of the subject property filed with the MCM at the time this report was written. Reports were searched based on registered site information, historic lots and concessions, and nearby streets. Figure 7 shows the location of these assessments in relation to the current subject property.

Archaeological Resource Assessment Surveys Chippawa East and West Subdivisions, R.M. of Niagara, Ontario. Mayer Heritage Consultants Inc. report dated 1992. PIF 92-012-LIC-013.

In 1992 Mayer Heritage Consultants Inc. (MHC) conducted a Stage 1 and 2 assessments on lands adjacent to the current subject property, north of Willick Road. No artifacts were encountered during the assessment and no further fieldwork was recommended (MHC, 1992).

Report on the Stage 1 & 2 Archaeological Assessment of Weaver Family Cemetery Located on, Queensway Chippawa Properties Inc.'s Land, C/O DG Group Inc., Part of Lot 19, Concession 3, City of Niagara Falls, Regional Municipality of Welland, Ontario. This Land Archaeology Inc. report dated August 18, 2015. PIF P059-0646-2014



This Land Archaeology (TLA) conducted a Stage 1 and 2 assessments of the Weaver Family Cemetery, adjacent to the current subject property, north of Willick Road. The assessment was conducted to establish the boundaries of the cemetery. The Stage 2 involved recording the GPS coordinates of the cemetery boundaries and examining ground conditions. TLA recommend a 10 m area surrounding the cemetery for mechanical topsoil removal (MTR). If any burials are found, appropriate notifications to the authorities should occur, and stripping will continue to an additional 10 m (TLA, 2015a).

Report of the Stage 3 Archaeological Assessment of Weaver Family Cemetery Located on Queenway Chippawa Properties Inc.'s Land, C/O DG Group Inc., Part of Lot 19, Concession 3, City of Niagara Falls, Regional Municipality of Welland, Ontario. This Land Archaeology Inc. report dated August 18, 2015. PIF P059-0014-2015.

TLA conducted a Stage 3 cemetery investigation on the Weaver Family Cemetery, located adjacent to the current subject property, north of Willick Road. A 10 m area surrounding the boundary of the cemetery was subject to MTR. No unmarked burials were found during the assessment. TLA determined that there were no further concerns associated with unmarked burials outside of the boundary of the Weaver Family Cemetery (TLA, 2015b).

1.3.4 Archaeological Master Plans

Niagara Region has an official plan that sets out directions and policies that guide economic, environmental, and community planning decisions for the region. In 2023, Niagara Region developed an Archaeological Management Plan. The plan is to be a comprehensive approach for the conservation of archaeological resources. The plan provides policies and process recommendations for planning and developmental approvals for the conservation of archaeological resources. The recommendations and policies are consistent with the Provincial Policy statement and makes them standard clauses for Niagara region and municipalities (Niagara Region, 2023).

The document also includes an Archaeological Potential Model for Niagara Region which highlights the lands within the Region that contain archaeological potential. The model was based on inductive and deductive approaches to determined potential. The Pre-Contact Indigenous site layer uses data from the Ontario Archaeological Site Database. While the historical site potential layer uses digitization of residential, commercial and industrial features and transportation routes from historical mapping; along with all previously discovered historical sites. The Archaeological Potential Model indicates that majority of the subject property has potential for archaeological resources (Figure 8).

2.0 FIELD METHODS

The subject property measures 2.50 ha. A Stage 1 visual inspection and Stage 2 property assessment were conducted concurrently on October 28, 2024, with advance permission to enter the subject property obtained from the Proponent. Weather conditions during the assessment consisted of overcast skies with a maximum daily temperature of 15 degrees Celsius.

The Stage 1 assessment of the subject property began with an on-site property inspection to gain first-hand knowledge of the geography, topography, and current condition of the property. The entirety of the subject property was accessible and was inspected. Appropriate photographic documentation was taken during the visual inspection. Coverage of the property was sufficient to identify the presence or absence of features of archaeological potential, meeting the requirements of Section 1.2 Standard 1 of the *Standards and Guidelines for Consultant Archaeologists*.

Areas of low to no archaeological potential include lands that have been previously disturbed, lands that have steeply sloping topography, and lands that are low-lying and permanently wet. No areas of low-lying and permanently wet or steeply sloping topography were observed. 0.24 ha, 9.60 percent (%) of the subject property, has been previously disturbed by intensive and extensive modern soil alterations, including for construction of a residential house with garage and outbuildings and gravel driveway. The buildings are now demolished but can be seen on the aerial imagery (Figure 6).

The remainder of the subject property, totaling 2.26 ha, 90.4%, retained archaeological potential and was recommended for Stage 2 archaeological assessment. 1.84 ha, 73.60% of the subject property consists of agricultural field and required Stage 2 assessment by pedestrian survey. The agricultural field was subject to ploughing deep enough to provide total topsoil exposure but not deeper than previous ploughing. The field was well-weathered and had greater than 80% ground surface visibility. As such, the pedestrian survey met Section 2.1.1 of the *Standards and Guidelines for Consultant Archaeologists* in terms of field preparation and visibility. The ploughed field was assessed by pedestrian survey at 5 m intervals. As no artifacts were observed during the pedestrian survey no intensified survey was conducted.

The remainder of the subject property, totaling 0.42 ha, 16.80% of the subject property consisted of manicured green space and tree rows. As these lands could not be ploughed, Stage 2 archaeological assessment was conducted by test pit survey at 5 m intervals in accordance with Section 2.1.2d of the *Standards and Guidelines for Consultant Archaeologists*. Each test pit was dug by hand and was 30 centimetres (cm) in diameter and was dug to at least five cm into the subsoil. Test pits were examined for stratigraphy, cultural features, or evidence of fill. Test pits were dug to within one m of all disturbances and other areas of low archaeological potential. All soil was screened through 6-millimetre mesh to maximize the potential for artifact recovery. Appropriate photographic documentation was taken, and all test pits were backfilled upon completion. As no artifacts were observed during the test pit assessment no intensified survey was conducted.

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There were no weather, ground, or lighting conditions detrimental to the recovery of artifacts. As such, it is confirmed that the assessment met Section 1.2 Standard 2 and Section 2.1 Standard 3 of the *Standards and Guidelines for Consultant Archaeologists* regarding weather and lighting.

The entirety of the subject property was assessed. The results of Stage 1 & 2 assessment are shown in Figures 9 and 10. Images of the assessment are shown in Section 8.0.



3.0 RECORD OF FINDS

3.1 Soils

The surface soils within the ploughed agricultural fields consisted of medium brown clay loam. Test pits contained approximately 23 to 28 cm of medium brown clay loam topsoil above yellow clay loam subsoil. Some soil disturbance was observed in test pits excavated in areas near the demolished buildings; however, test pit survey was still conducted at 5 m intervals to ensure full survey coverage.

3.2 Archaeological Resources

No artifacts or other archaeological resources were observed during the Stage 1 & 2 assessment of the subject property.

3.3 Documentary Record

All fieldwork-related activities were documented and kept, including field notes and observations and detailed maps. Appropriate photographic records were kept of the assessment and all image descriptions were recorded in a photo log.

A detailed list of field records is presented in Table 3. All digital items have been duplicated and all paper items have been scanned and stored as digital documents. All items are housed in the corporate offices of ACC.

Under Section 6 of Regulation 881 of the *Ontario Heritage Act*, ACC will keep in safekeeping all objects of archaeological significance that are found under the authority of the license and all field records that are made in the course of the work authorized by the license, except where the objects and records are donated to His Majesty the King in right of Ontario or are directed to be deposited in a public institution under subsection 66 (1) of the Act.

Table 3: Inventory of Documentary and Material Records

PROJECT INFORMATION		
DOCUMENT/MATERIAL	NUMBER	DESCRIPTION
ACC project number	273 -12-24	
Licensee	Kristy O'Neal	
MCM PIF number	P066-0407-2024	
field notes & photo logs	4	pages (paper, with digital copies)
maps	1	aerial imagery of the subject property
	1	concept plan
photos	4	digital colour photographs

4.0 ANALYSIS AND CONCLUSIONS

4.1 Potential for Archaeological Resources

Archaeological potential is defined as the likelihood of finding archaeological sites within a subject area. For planning purposes, determining archaeological potential provides a preliminary indication that significant sites might be found within the subject area, and consequently, that it may be necessary to allocate time and resources for archaeological survey and mitigation.

The framework for assigning levels of potential archaeological significance is drawn from provincial guidelines found in the *Standards and Guidelines for Consultant Archaeologists* (MCM, 2011: Sections 1.3.1 and 1.3.2). The following are features or characteristics that can indicate archaeological potential:

- previously identified archaeological sites
- water sources (It is important to distinguish types of water and shoreline, and to distinguish natural from artificial water sources, as these features affect site locations and types to varying degrees.).
 - primary water sources (e.g., lakes, rivers, streams, creeks)
 - secondary water sources (e.g., intermittent streams and creeks, springs, marshes, swamps)
 - features indicating past water sources (e.g., glacial lake shorelines indicated by the presence of raised sand or gravel beach ridges, relic river or stream channels indicated by clear dip or swale in the topography, shorelines of drained lakes or marshes, cobble beaches)
 - accessible or inaccessible shoreline (e.g., high bluffs, swamp or marsh fields by the edge of a lake, sandbars stretching into marsh)
- elevated topography (e.g., eskers, drumlins, large knolls, plateaus)
- pockets of well-drained sandy soil, especially near areas of heavy soil or rocky ground
- distinctive land formation that might have been special or spiritual places, such as waterfalls, rock outcrops, caverns, mounds, and promontories and their bases. There may be physical indicators of their use, such as burials, structures, offerings, rock paintings or carvings.
- resource areas, including:
 - food or medicinal plants (e.g., migratory routes, spawning areas, prairie)
 - scarce raw materials (e.g., quartz, copper, ochre or outcrops of chert)
 - early Euro-Canadian industry (e.g., fur trade, logging, prospecting, mining)

- areas of early Euro-Canadian settlement. These include places of early military or pioneer settlement (e.g., pioneer homesteads, isolated cabins, farmstead complexes), early wharf or dock complexes, pioneer churches and cemeteries. There may be commemorative markers of their history, such as local provincial, or federal monuments or heritage parks
- early historical transportation routes (e.g., trails, passes, roads, railways, portages)
- property listed on a municipal register or designated under the OHA or that is in a federal, provincial, or municipal historic landmark site
- property that local histories or informants have identified with possible archaeological sites, historical events, activities, or occupations

Archaeological potential can be determined not to be present for either the entire property or parts of it when the area under consideration has been subject to extensive and deep land alterations that have severely damaged the integrity of any archaeological resources. This is commonly referred to as “disturbed” or “disturbance” and may include:

- quarrying
- major landscaping involving grading below topsoil
- building footprints
- sewage and infrastructure development
- activities such as agricultural cultivation, gardening, minor grading, and landscaping do not necessarily affect archaeological potential.

4.2 Discussion

Section 1.3.1 of the *Standards and Guidelines for Consultant Archaeologists* (MCM, 2011) lists criteria indicative of archaeological potential. Stage 1 background research indicated that the subject property has general archaeological potential due to the following factors:

- The subject property is largely comprised of well- drained land that is suitable for human habitation and agriculture
- The presence of a historical homestead located partially within the subject property (Page & Co., 1876).
- The subject property fronts Sodom Road, and Willick Road, two early historical transportation routes (Tremaine, 1862; Page & Co., 1876).
- Twenty- three archaeological sites have been registered within 1 km of the subject property.

Given the above criteria, background archival research indicates that the subject property exhibits general archaeological potential for the discovery of both pre/post-contact Indigenous

and Euro-Canadian archaeological resources therefore, a Stage 2 archaeological assessment was required.

The subject property measures 2.50 ha. A visual property inspection determined that 0.24 ha of the subject property has been previously disturbed by modern construction activities and has low to no archaeological potential.

2.26 ha of the subject property retained archaeological potential and was recommended for Stage 2 assessment. 1.84 ha of the subject property consisted of agricultural field that was assessed by means of pedestrian survey at 5 m intervals. 0.42 ha of the subject property consisted of wood rows or manicured greenspace and was assessed by test pit survey at 5 m intervals.

No artifacts or other archaeological resources were identified during the Stage 2 archaeological assessment. According to the *Standards and Guidelines for Consultant Archaeologists* (MCM, 2011), the subject property has now been completely assessed and does not require any additional fieldwork.



5.0 RECOMMENDATIONS

Subject to acceptance of the results and approval of the recommendations, MCM is requested to deem this report compliant with ministry requirements for archaeological fieldwork and reporting and to issue a letter accepting this report into the *Ontario Public Register of Archaeological Reports*.

The following recommendation is provided for consideration by the Proponent and by the MCM:

1. No artifacts or other archaeological resources were identified during the Stage 2 archaeological assessment. The subject property has now been fully assessed according to the Ontario Ministry of Citizenship and Multiculturalism's 2011 *Standards and Guidelines for Consultant Archaeologists*. No further archaeological assessment of the property is required.



6.0 ADVICE ON COMPLIANCE WITH LEGISLATION

The following advice on compliance with current legislation is provided for consideration:

- a. This report is submitted to the Minister of Citizenship and Multiculturalism as a condition of licensing in accordance with Part IV of the *Ontario Heritage Act*, R.S.O. 2005, c O.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.
- b. 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 a time as a licensed archaeologist has completed archaeological 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 Archaeological Reports referred to in Section 65.1 of the *Ontario Heritage Act*.
- c. 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*.
- d. The *Funeral, Burial and Cremation Services Act*, 2002, S.O. 2002, c.33 requires that any person discovering human remains must notify the local police or coroner and the Registrar, Burials Unit, at the Ministry of Public and Business Service Delivery.



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2025a Sites within a one km radius of the subject property. Provided from the *Ontario Archaeological Sites Database.*

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Niagara Region

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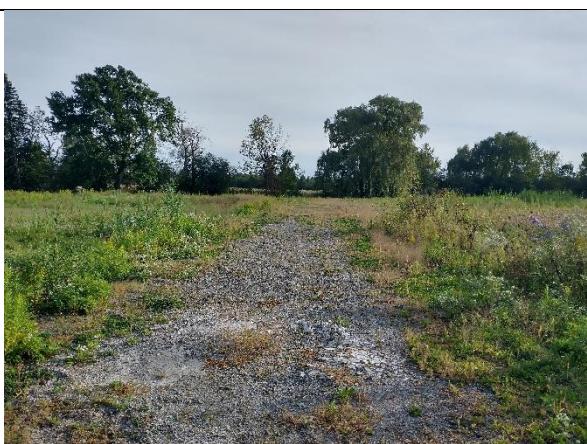
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8.0 IMAGES



	
Image 1: Subject property, facing west	Image 2: Subject property, facing west
	
Image 3: Asphalt driveway leading to demolished buildings, facing south	Image 4: Typical test pit

9.0 FIGURES



Figure 1: Location of the Subject Property on a Topographic Map

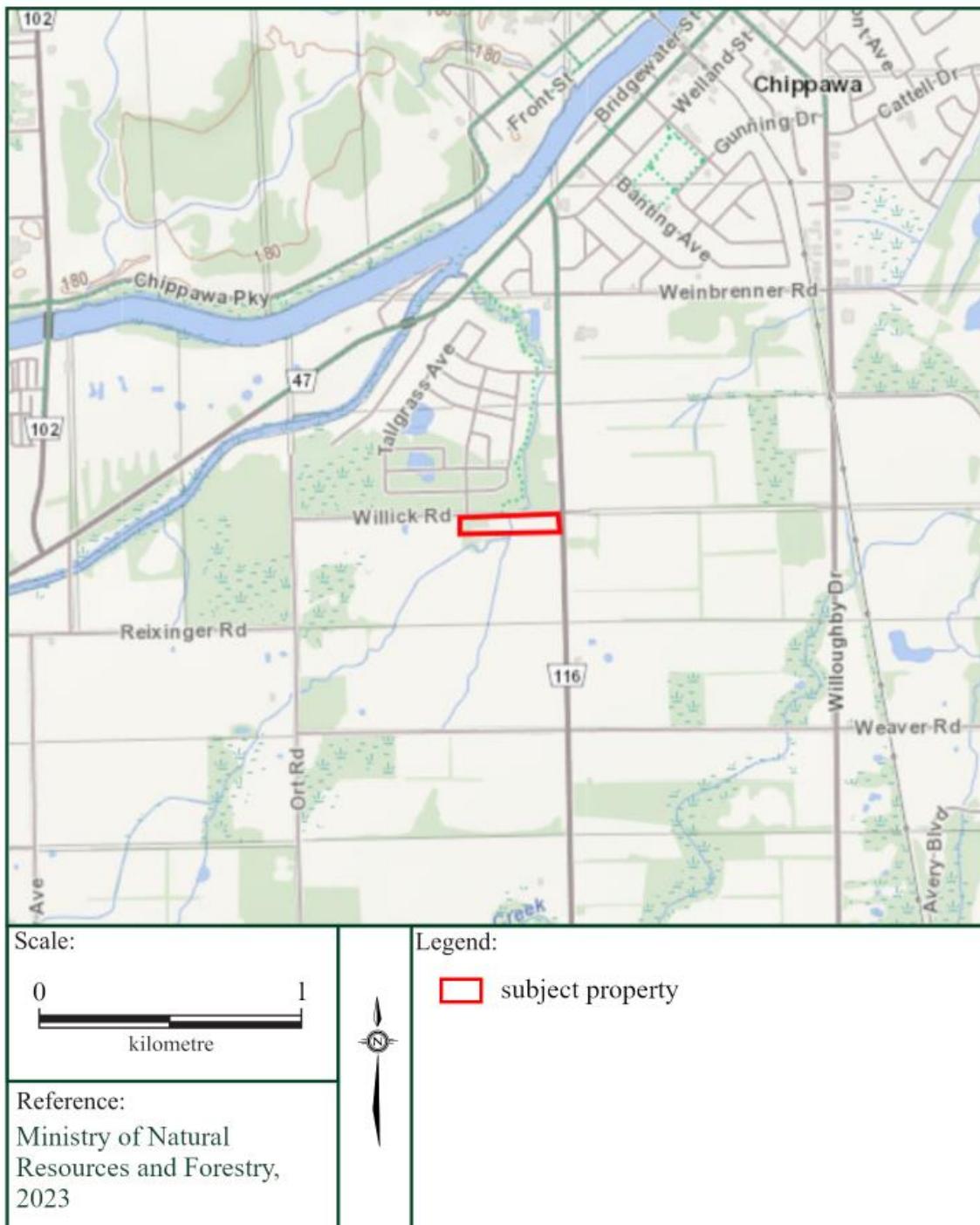


Figure 2: Concept Plan

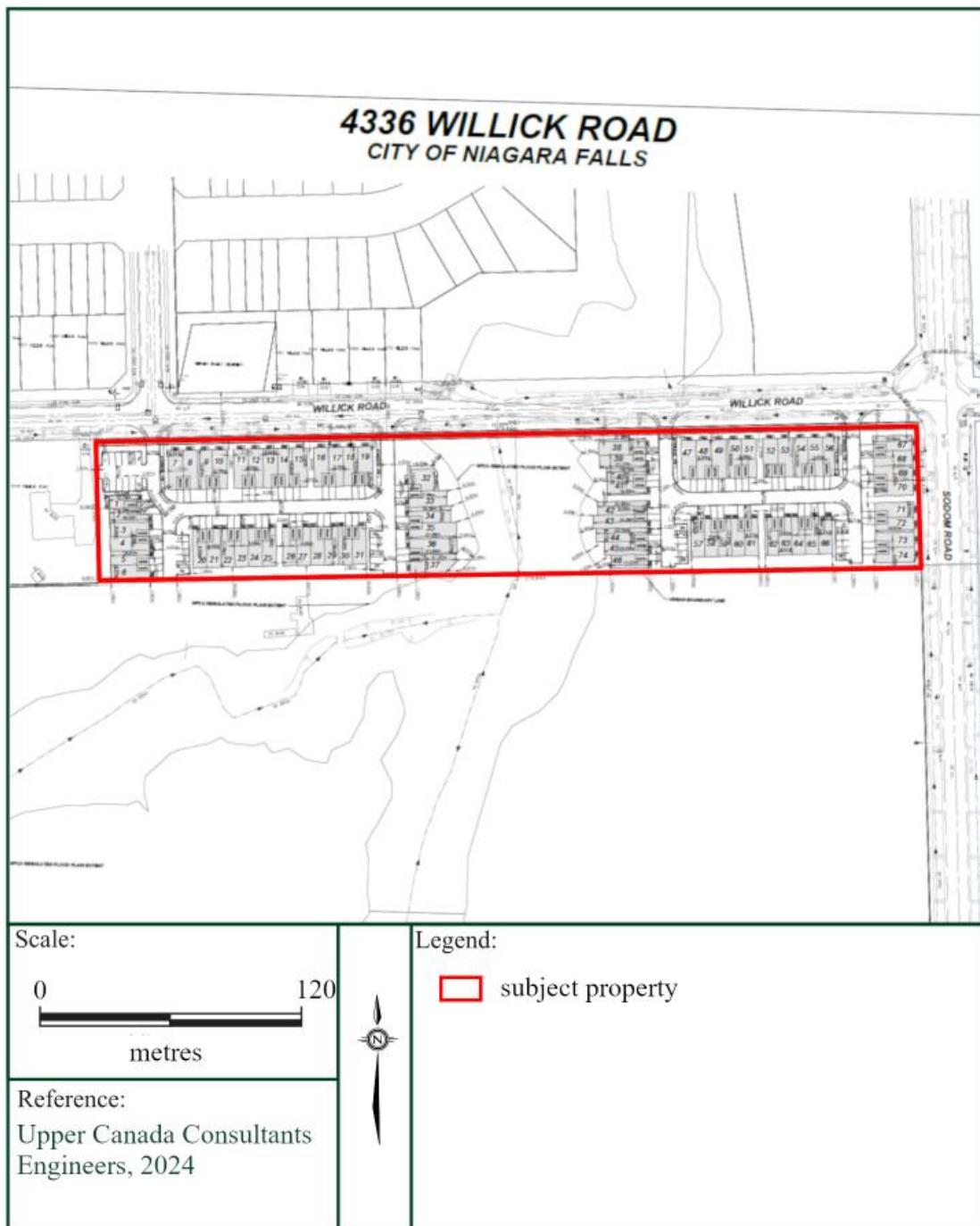


Figure 3: Location of the Subject Property on Tremaine's 1862 Map of the Counties of Welland and Lincoln, Canada West



Figure 4: Location of the Subject Property on H. R. Page & Co.'s 1876 Illustrated Historical Atlas Map of Willoughby Township, in the Counties of Lincoln and Welland, Ontario

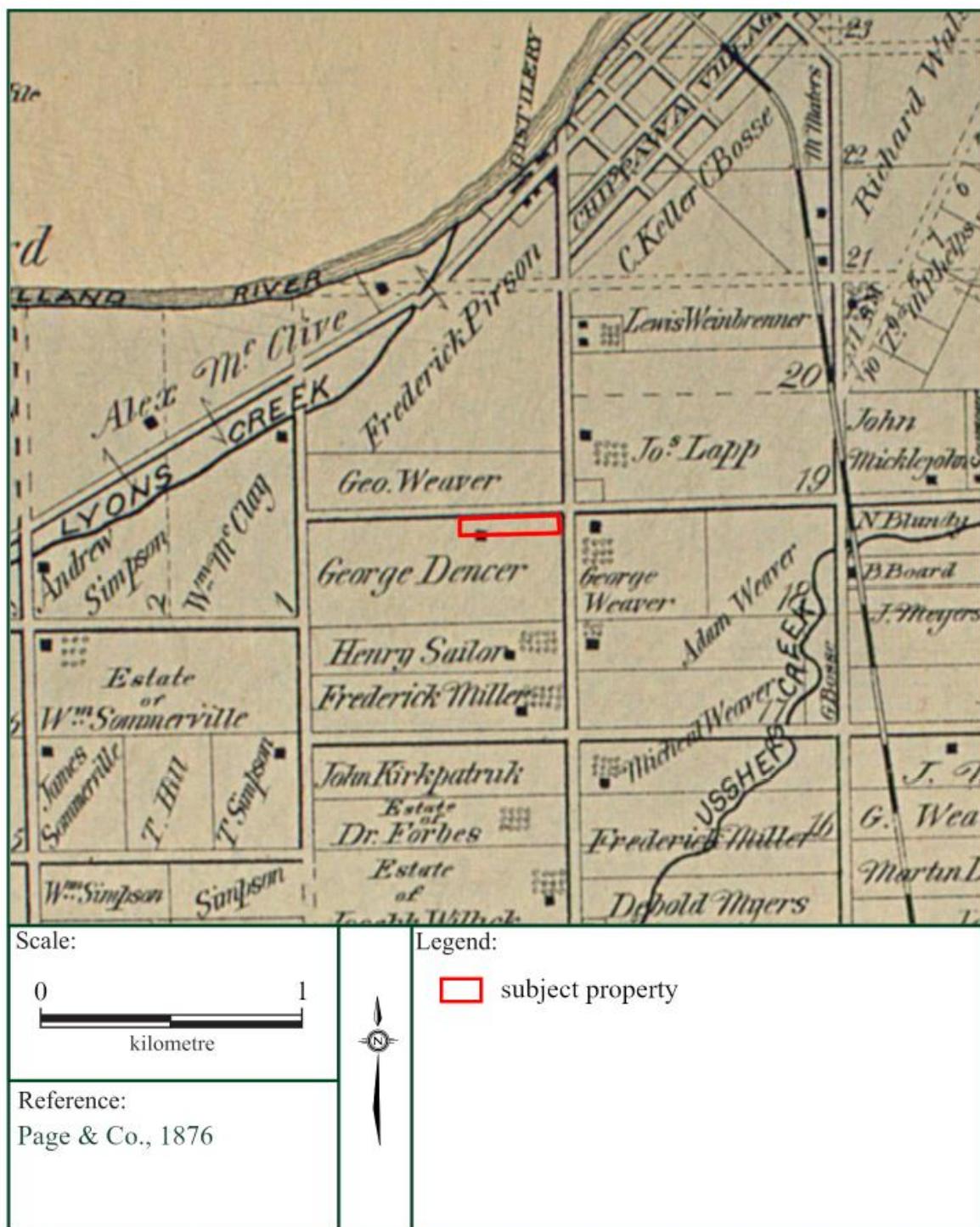


Figure 5: Location of the Subject Property on a Map of the Soils of Regional Municipality of Niagara

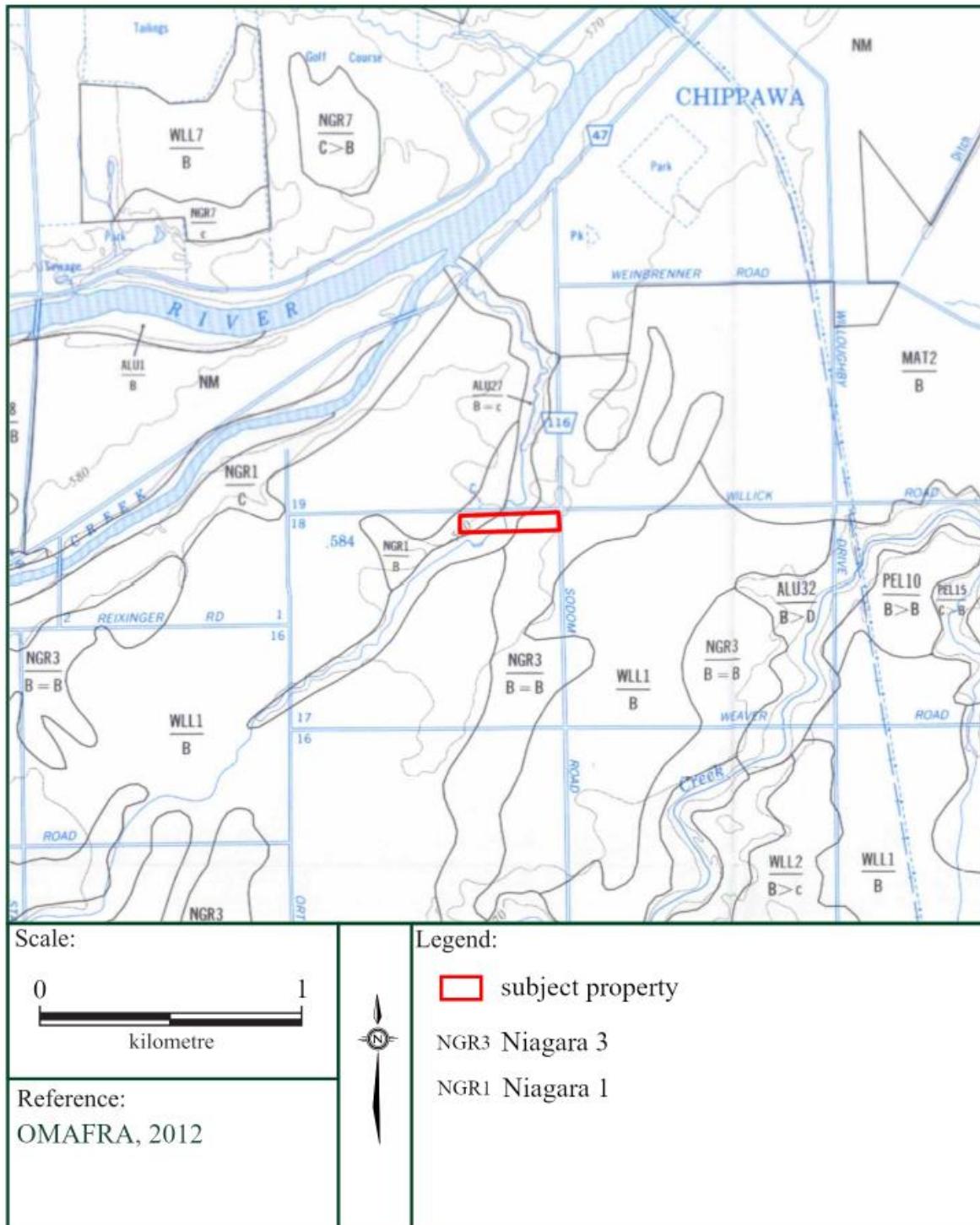


Figure 6: Current Land Use of the Subject Property



Figure 7: Previous Archaeological Assessments conducted within 50 metres of the Subject Property.

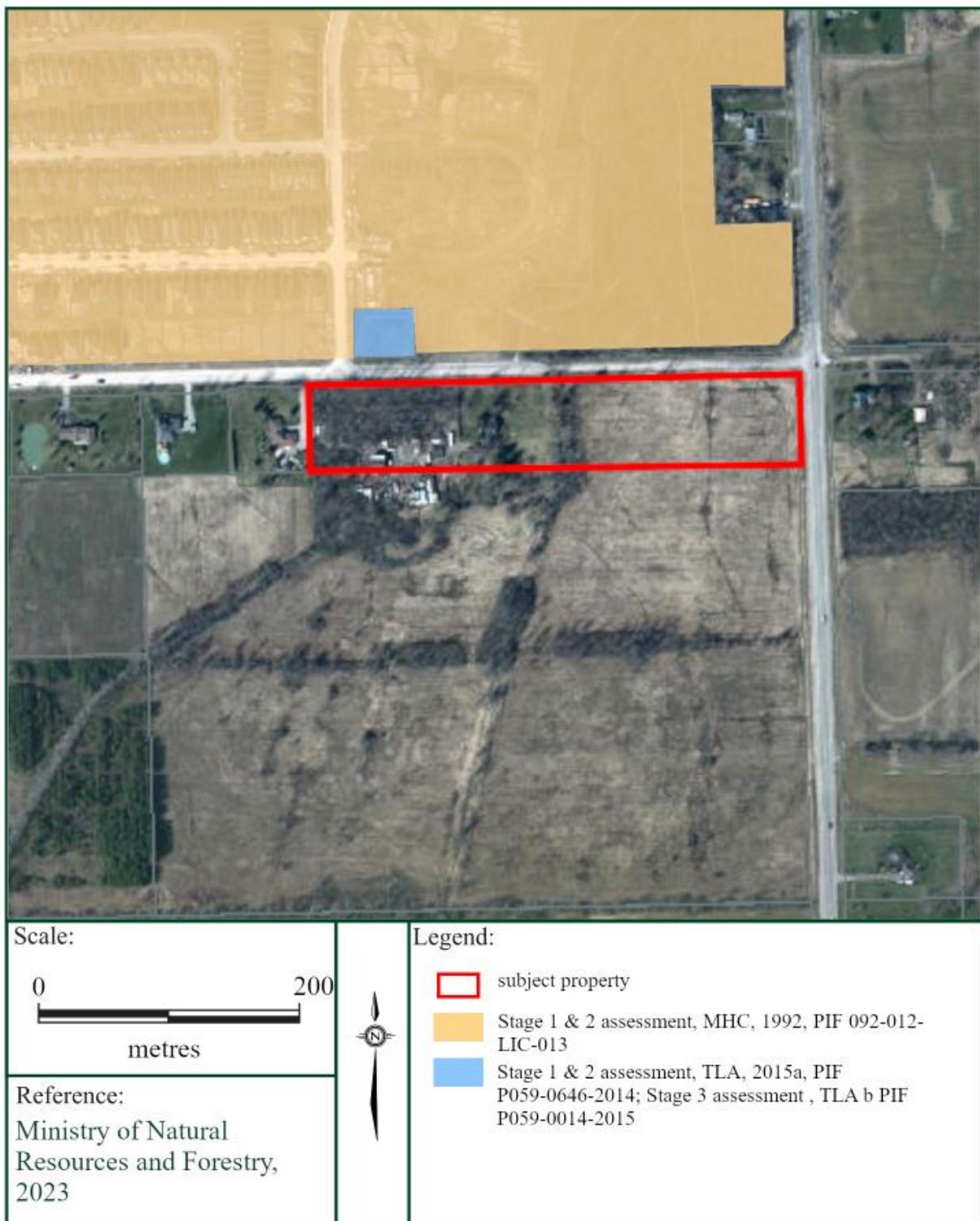


Figure 8: Location of the Subject Property on Niagara Region's Archaeological Potential Map

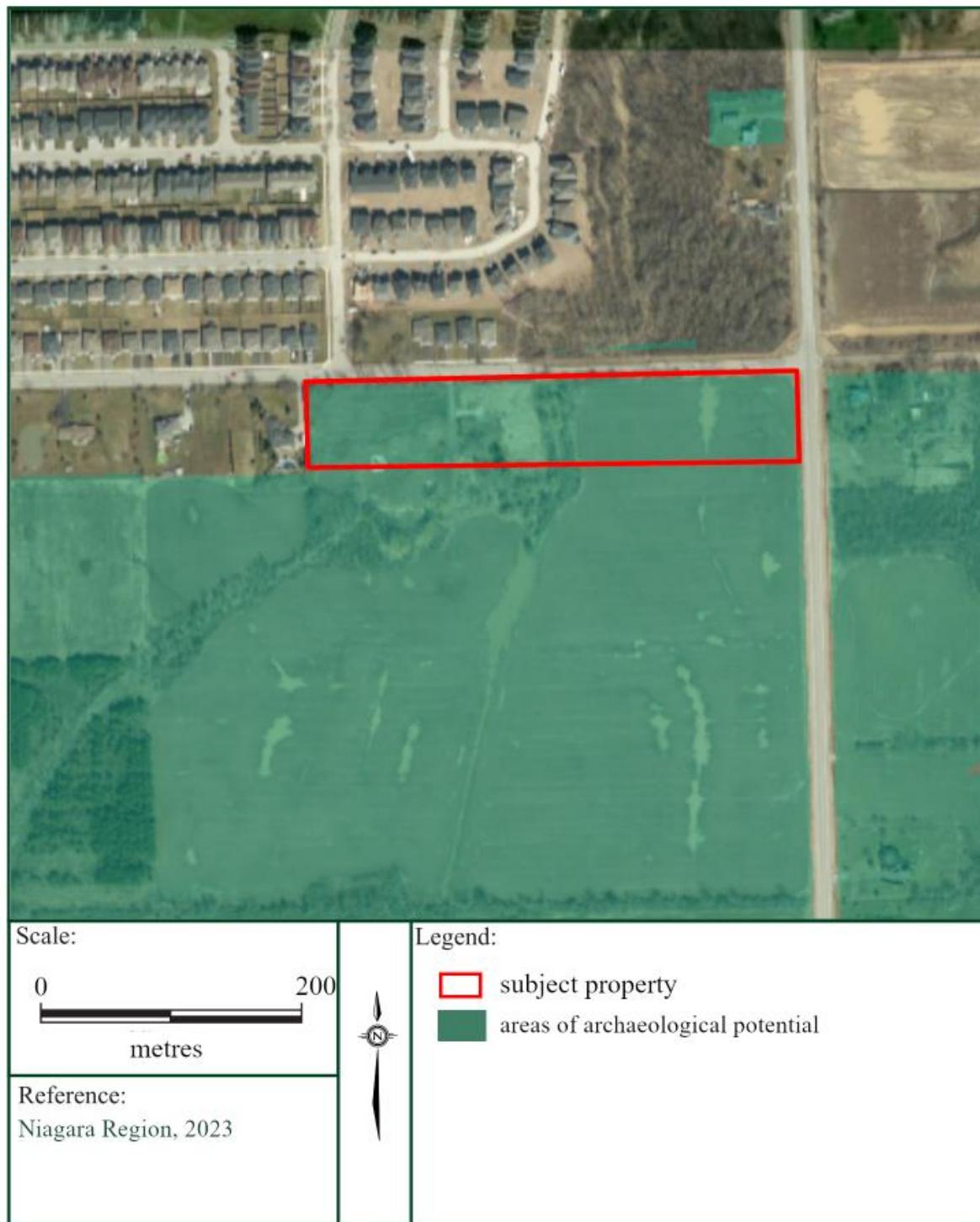


Figure 9: Aerial Imagery Showing the Results of the Stage 1 & 2 Archaeological Assessment of the Subject Property, with Image Locations and Directions

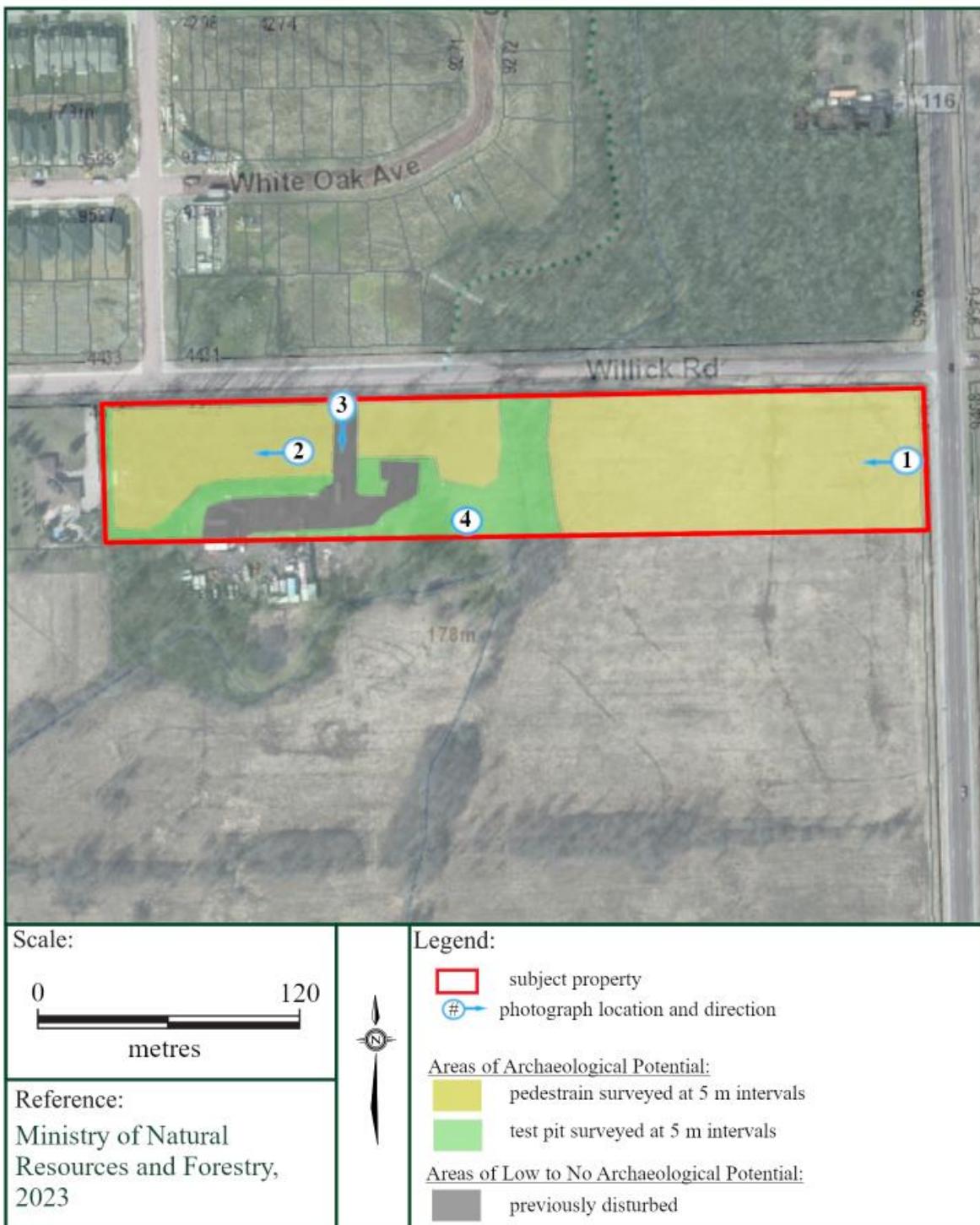


Figure 10: Concept Plan Showing the Results of the Stage 1 & 2 Archaeological Assessment of the Subject Property

