



**ACC**

ARCHAEOLOGICAL  
CONSULTANTS CANADA

# Stage 1 Archaeological Assessment

Whitechurch Secondary Plan

Lots 9 to 11, Concession 4, and Lots 6 to 10, Concession 5, Former Geographic Township of Glanford, Wentworth County, now in the City of Hamilton, Ontario

Original Report

Prepared for:

**Ontario Ministry of Citizenship and Multiculturalism**

Prepared by:

Archaeological Licensee: Matthew Muttart, M. A., P1208

**Archaeological Consultants Canada**

PO Box 81045 Ancaster, RPO Fiddlers Green

Hamilton, ON L9G 4X1

PIF# P1208-0301-2023

Project No. 195-01-23

6 December 2023

## EXECUTIVE SUMMARY

Archaeological Consultants Canada (“ACC”) was contracted by the Proponent to conduct a Stage 1 archaeological assessment as part of the pre-planning process for the Whitechurch Secondary Plan. The assessment was required under the *Planning Act, R.S.O. 1990*. The area of assessment or the “subject property” measures 326.26 hectares (“ha”) and is located on Part of Lots 9, 10 and 11, Concession 4, Part of Lots 6, 7, 8, 9, and Lot 10, Concession 5, in the City of Hamilton, formerly in the Geographic Township of Glanford, Wentworth County, Ontario (Figure 1).

The entirety of the current subject property has been subject to Stage 1 assessment by D.R. Poulton & Associates (“DPA”), who completed a Stage 1 assessment for the decommissioning and replacement of an Enbridge pipeline, Line 10, on lands that included a 33 km corridor for a preferred pipeline replacement route along with a 1-kilometre (“km”) radius surrounding the preferred route. However, while DPA’s assessment focused on a much larger subject property discussion in the report was largely limited to the preferred pipeline route rather than their entire study area. DPA recommended general Stage 2 survey of the preferred route and associated impact areas as far in advance of construction as possible but did not specify areas of archaeological potential (DPA, 2015:41). Furthermore, DPA’s assessment was completed nearly a decade ago and additional assessments have been conducted within and surrounding the current subject property, warranting an updated Stage 1 archaeological assessment.

The Stage 1 assessment was conducted under Professional Archaeological License P1208, held by Matthew Muttart. The Ontario Ministry of Citizenship and Multiculturalism (“MCM”) assigned Project Information Form (“PIF”) number P1208-0301-2023 to this project. No fieldwork was conducted for this assessment.

Stage 1 background research indicates that the subject property has general archaeological potential due to the presence of 13 historic farmsteads within the property, the proximity to early historical transportation routes, the proximity of the subject property to historic Mount Hope, nearby water sources, and the presence of 187 registered sites located within 1 km of the subject property, including 13 registered sites located within the subject property.

18.28 ha, 6%, of the subject property has been previously subject to Stage 2 archaeological assessments for proposed pipeline assessments (Stantec, 2015, 2016, 2022, TMHC, 2015, 2016; see Figure 8 of this report). Thirteen locations containing archaeological resources were identified within the subject property during these assessments. Some of the sites documented during the Stage 1 & 2 assessments have undergone subsequent Stage 3 and 4 excavations. Of the 13 sites, nine sites have been sufficiently documented and have no further CHVI.

Four registered archaeological sites located within the subject property retain CHVI. AgGx-606 and AgGx-618 have been recommended for Stage 3 excavation (TMHC, 2017a). AgGx-1029 has been partially subject to Stage 4 mitigation through excavation by Stantec (MCM, 2023a), however, the site extended outside their subject property (Stantec, 2023a). According to the OASD, it appears Stage 4 mitigation has been completed on the southern portion of the site,

however, the report documenting this fieldwork has not yet been entered into the *Public Register of Archaeological Reports* (MCM, 2023b). Therefore, recommendations presented in Stantec's Stage 3 fieldwork report are the most current available for the site (Stantec, 2023a). The portion of the site outside Stantec's assessed area requires Stage 2 assessment and further Stage 3 and/or 4 assessments as necessary. AgGx-1030 has been subject to partial Stage 3 assessment by Stantec and has been recommended for Stage 4 mitigation through excavation (Stantec, 2023b). The portion of the site that extended outside Stantec's project area has been recommended for Stage 2 assessment followed by Stage 3 and/or Stage 4 assessments as necessary (Stantec, 2023b). Site-specific recommendations are presented in Section 5.0, below.

Background research of the geography, topography, and current condition of the property determined that 2.90 ha, 1%, of the subject property, is made up of waterbodies and watercourses. 10.55 ha, 3%, of the subject property has low to no archaeological potential because it has been previously intensively and extensively disturbed by major landscaping and construction activities involving grading below topsoil. The balance of the subject property, 294.53 ha, 90%, was recommended for Stage 2 assessment prior to development.

The following is a summary of recommendations provided for consideration by the Proponent and the MCM. For detailed recommendations please see the full report.

1. Aerial imagery and topographic mapping indicates that 10.55 ha of the property exhibits low potential for the recovery of archaeological resources due to previous disturbance. The Stage 2 assessment should confirm the presence and extent of these areas of low archaeological potential, and they should be mapped and documented by photography.
2. Stage 2 assessment has been conducted on 18.28 ha of the subject property. As the reports documenting this fieldwork have been approved by MCM, these lands do not require any further Stage 2 survey.
3. There are 13 registered sites documented within the subject property. Nine of these sites, AgGx-603, AgGx-619, AgGx-620, AgGx-621, AgGx-623, AgGx-624, AgGx-625, AgGx-626, and AgGx-627 have no further CHVI and require no additional fieldwork. Four sites, AgGx-606, AgGx-618, AgGx-1029, and AgGx-1030 retain further CHVI. Required fieldwork for each site is presented in the full recommendations presented within this report.
4. Stage 2 archaeological assessment in the form of a pedestrian survey should be conducted on the agricultural fields which account for 213.55 ha of the subject property.
5. Stage 2 archaeological assessment in the form of a test pit survey should be conducted in all areas where ploughing is not possible or viable, including manicured lawn, treerows, scrubland, and forested areas, which account for 80.98 ha of the subject property.



## TABLE OF CONTENTS

Executive Summary	2
Project Personnel	6
1.0 PROJECT CONTEXT	7
1.1 Development Context	7
1.2 Historical Context	8
1.2.1 Background Research	8
1.2.2 A Cultural Chronology for Southern Ontario	8
1.3 Archaeological Context	13
1.3.1 Natural Environment	13
1.3.2 Current Land Use	14
1.3.3 Previous Archaeological Investigations	14
1.3.3.1 Registered Archaeological Sites	14
1.3.3.2 Previous Archaeological Reports within the Property	25
1.3.3.3 Previous Archaeological Reports within 50 m	31
1.3.4 Archaeological Master Plans	32
1.3.5 Potential for Archaeological Resources	32
2.0 FIELD METHODS	35
3.0 RECORD OF FINDS	36
3.1 Areas of Low Archaeological Potential	36
3.2 Previously Assessed Areas	36
3.3 Areas of Archaeological Potential	36
3.4 Documentary Record	37
4.0 ANALYSIS AND CONCLUSIONS	38
5.0 RECOMMENDATIONS	41
6.0 ADVICE ON COMPLIANCE WITH LEGISLATION	45
7.0 BIBLIOGRAPHY AND SOURCES	46





8.0 FIGURES	51
-------------	----

#### LIST OF TABLES

---

1. General Cultural Chronology for Southern Ontario	9
2. Landowners Listed on Hardy Gregory's 1859 Map of Wentworth County	11
3. Landowners Listed on Page & Smith's 1875 Map of Glanford Township	12
4. Registered Archaeological Sites within 1 km of the Subject Property	15
5. Inventory of Documentary and Material Record	37
6. Status of Registered Archaeological Sites within the Subject Property	38

#### LIST OF FIGURES

---

1. Location of the Subject Property on a 1:50,000 Scale Topographic Map	
2. Land Use Plan	
3. Location of the Subject Property on Hardy Gregory's 1859 Map of the County of Wentworth, Canada West	
4. Location of the Subject Property on Page & Smith's 1875 Illustrated Historical Atlas Map of Glanworth Township, County of Wentworth	
5. Location of the Subject Property on a Map of Wentworth County Soils	
6. Water Sources within the Subject Property	
7. Current Land Use of the Subject Property	
8. Previous Archaeological Assessments Conducted Within 50 m of the Subject Property	
9. Location of the Subject Property on the City of Hamilton Archaeological Management Plan Map of Areas of Archaeological Potential	
10. Results and Recommendations of the Stage 1 Archaeological Assessment of the Subject Property	



## PROJECT PERSONNEL

Project Manager:	Matthew Muttart, M.A., P1208
Professional License:	Matthew Muttart, M.A., P1208
Field Director:	Matthew Muttart, M.A., P1208
Report Preparation:	Kristy O'Neal, M.A., P066
Graphics:	Kristy O'Neal, M.A., P066



# Stage 1 Archaeological Assessment

## Whitechurch Secondary Plan

Lots 9 to 11, Concession 4, and Lots 6 to 10, Concession 5, Former Geographic Township of Glanford, Wentworth County, now in the City of Hamilton, Ontario

### 1.0 PROJECT CONTEXT

#### 1.1 Development Context

Archaeological Consultants Canada (“ACC”) was contracted by the Proponent to conduct a Stage 1 archaeological assessment as part of the pre-planning process for the Whitechurch Secondary Plan. The assessment was required under the *Planning Act, R.S.O. 1990*. The area of assessment or the “subject property” measures 326.26 hectares (“ha”) and is located on Part of Lots 9, 10 and 11, Concession 4, Part of Lots 6, 7, 8, 9, and Lot 10, Concession 5, in the City of Hamilton, formerly in the Geographic Township of Glanford, Wentworth County, Ontario (Figure 1). The Proponent provided a Land Use Plan showing the limits of the subject property, which appears in Figure 2.

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 entirety of the current subject property has been subject to Stage 1 assessment by D.R. Poulton & Associates (“DPA”), who completed a Stage 1 assessment for the decommissioning and replacement of an Enbridge pipeline, Line 10, on lands that included a 33 km corridor for a preferred pipeline replacement route along with a 1-kilometre (“km”) radius surrounding the preferred route. However, while DPA’s assessment focused on a much larger subject property discussion in the report was largely limited to the preferred pipeline route rather than their entire study area. DPA recommended general Stage 2 survey of the preferred route and associated impact areas as far in advance of construction as possible but did not specify areas of archaeological potential (DPA, 2015:41). Furthermore, DPA’s assessment was completed nearly a decade ago and additional assessments have been conducted within and surrounding the current subject property, warranting an updated Stage 1 archaeological assessment.

The Stage 1 assessment was conducted under Professional Archaeological License P1208, held by Matthew Muttart. The Ontario Ministry of Citizenship and Multiculturalism (“MCM”) assigned Project Information Form (“PIF”) number P1208-0301-2023 to this project. No fieldwork was conducted for this assessment.

All reporting was completed using MCM’s 2011 *Standards and Guidelines for Consultant Archaeologists*. This report documents the research, the methods and results, and the

conclusions and recommendations based on the Stage 1 archaeological assessment. All documents and records related to this project will be curated at the offices of Archaeological Consultants Canada, in accordance with subsection 66(1) of the *Ontario Heritage Act*.

## 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 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 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 graters 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.

People during the Archaic period (*circa* 10,000 to 2,800 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



Stage 1 Archaeological Assessment  
Whitechurch Secondary Plan  
Lots 9 to 11, Concession 4 & Lots 6 to 10, Concession 5,  
Township of Glanford, City of Hamilton, ON

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

Table 1: General Cultural Chronology for Southwestern 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:		
	Late Woodland: Ontario Iroquois Tradition	Riviere au Vase	1500/1400-1200/1100	
		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 Woodland: Western Basin Tradition	Late: Neutral	600-450	
Younge Phase		1200/1100-800		
Springwells Phase		800-600		
HISTORIC	SW Ontario Iroquois	Wolf Phase	600-450	
		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)

The Woodland period is distinguished by the introduction of pottery vessels for storage and cooking. Sites of the Woodland period (*circa* 2,900 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. While North America had been visited by Europeans on an increasing scale since the end of the fifteenth century, it was not until the voyages of Jacques Cartier in the 1530s that Europeans visited Ontario Iroquoians in their home territories. 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.

The subject property was historically located within Part of Lots 9, 10, and 11, Concession 4, and Part of Lots 6, 7, 8, 9, and Lot 10, Concession 5, in the Geographic Township of Glanford, Wentworth 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).

In 1792, Simcoe divided Upper Canada into 19 counties. Wentworth County was once part of the Gore District, which was surveyed in 1791 by Augustus Jones. When the districts were broken up into counties, Wentworth and Halton formed a single municipality until 1854. Early settlement took place largely along the lakeshore as settlement elsewhere was hindered by a lack of transportation routes. Wentworth County was named after Sir John Wentworth, Lieutenant-Governor of Nova Scotia between 1792 and 1808 (Mika & Mika, 1983:624). The earliest settlers in the county were United Empire Loyalists who settled in the area following the American Revolution. As early as 1791, a grist mill was built on what is present day Ancaster. Upper Canada's first paper mill was established in Wentworth County in 1826.

During the War of 1812, Stoney Creek was the centre of a decisive battle credited with preventing American forces from overtaking Upper Canada. An invading force of 3,000 soldiers, having just seized Fort George and Niagara, moved inland and set up camp near Stoney Creek in 1813. British soldiers staged a surprise attack, and the British forces were victorious (Mika & Mika, 1983:625).

The Township of Glanford was named for the parish of Glanford Briggs in England, 40 km from London. The township originally belonged to the County of Lincoln but was transferred to Wentworth County in 1854 (Local History & Archives, 2023). The township was originally slow in settling due to the barrier of the Niagara escarpment. In 1815, there were only fifty ratepayers (Page & Smith, 1875:xi). The area remained primarily agrarian for a long time despite nearby



industrialization, but achieved some prosperity once the Hamilton and North Western Railway was completed in 1872.

The subject property exists near the town of Mount Hope. The town was originally known as Swazie’s corners, after the prominent owner of a hotel in town. It became known as Hines’ Corners after Mr. Swayze left and Mr. Hines replaced him as the hotel owner. The first land grants were issued in the Mount Hope area as early as 1802, but no settlers arrived until 1810. In the 1850s, a meeting was held to determine a name for the town. John Renton suggested “Mount Hope”, “Mount” in part because it is the highest point between Lake Erie and Ontario, and “Hope” either in hope for the temperance movement or hope for a larger future for the town. With the development of Port Dover Road, the town became larger and more profitable. By 1841 the population had increased to over 1,000, and the town boasted three blacksmith shops, two hotels, three butchers, two wagon-makers, a shoemaker, two carriage-makers and an undertaker (Glanbrook Heritage Society, 2007).

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 nineteenth century. Hardy Gregory’s 1859 *Map of Wentworth County* indicates that at that time there were 18 landowners listed within the subject property. Table 2 lists the landowners as well as the parcel of land each owned. The subject property is shown adjacent to four concession roads, now Airport Road East, Miles Road, White Church Road East, and Upper James Street. Town lots for the community of Mount Hope are shown to the northwest of the subject property. A toll gate and church are shown on Lot 5, near the subject property. A railroad is shown running through the northeast corner of the subject property. No structures are shown within the subject property (Figure 3). A schoolhouse is illustrated on Lot 12, Concession 4, 150 m from the subject property. A road allowance cuts between the two properties owned by Jane Leonard.

Table 2: Landowners Listed on Hardy Gregory’s 1859 Map of Wentworth County

LOT & CONCESSION	PART	LANDOWNER
Lot 9, Concession 4	W ½	John & H. Mullholland
	W ½ of E ½	William Mulholland
	E ¼	Edward Mullholland
Lot 10, Concession 4	W ¾	David & A. Smith
	E ¼	Jane Leonard
Lot 11, Concession 4	W ¼	Jane Leonard
	E ¾	Amos Smith
Lot 6, Concession 5	S ¼ of N ½	William Young
	S ½	Abraham Young
Lot 7, Concession 5	All	C. Penfold & James McKee
Lot 8, Concession 5	N ¼	J. Mason
	SW part	Anthony Murray
	S-central part	Thomas Parker
	SE part	none listed



Stage 1 Archaeological Assessment  
Whitechurch Secondary Plan  
Lots 9 to 11, Concession 4 & Lots 6 to 10, Concession 5,  
Township of Glanford, City of Hamilton, ON

LOT & CONCESSION	PART	LANDOWNER
Lot 9, Concession 5	N ½	Thomas Webber
	S ½	William Young
Lot 10, Concession 5	W ½	Isaac Duffield
	NE ¼	J. Hostein
	SE ¼	David Marr

Page & Smith's 1875 *Illustrated Historical Atlas of the County of Wentworth, Ontario* indicates that at that time there were 18 landowners listed within the subject property. Table 3 lists the landowners as well as the parcel of land each owned. Thirteen farmsteads and 11 orchards are illustrated throughout the subject property, largely fronting nearby concession roads. The subject property is shown adjacent to four concession roads, now Airport Road East, Miles Road, White Church Road East, and Upper James Street. Town lots for the community of Mount Hope are shown to the northwest of the subject property. The Glanford post office and two farmsteads and orchards are illustrated just outside the subject property in Lots 6 to 8. A church and cemetery are shown on Lot 5, west of Upper James Street. The Hamilton & Lake Erie Railroad is shown to the east of the subject property (Figure 4).

Table 3: Landowners Listed on Page & Smith's 1875 Map of Glanford Township

LOT	PART	LANDOWNER	COMMENT
Lot 9, Concession 4	W ½	W. Young	-farmstead just outside subject property
	E ½	W. Findlay	-orchard in subject property -2 farmsteads just outside subject property
Lot 10, Concession 4	W ½	Amos Smith Jr.	-farmstead in subject property -orchard just outside subject property
	W ¼ of E ½	J. Hostein	-farmstead just outside subject property
	E ¼	R. Smith	-n/a
Lot 11, Concession 4	W ¼	R. Smith	-farmstead and orchard just outside subject property
	E ¾	Amos Smith	-farmstead and orchard in subject property -Hamilton & Lake Erie Railway cuts across corner
Lot 6, Concession 5	S ¼ of N ½	William Young	-farmstead and orchard just outside subject property
	N ½ of S ½	Jacob Young	-farmstead in subject property
	S ¼	E & L Young	-farmstead and orchard in subject property
Lot 7, Concession 5	N ½	Joseph Gray	-two farmsteads and orchard in subject property
	S ½	James McKee	-farmstead and orchard in subject property
Lot 8, Concession 5	N ¼	J. Mason	-farmstead and orchard just outside subject property
	SW part	R. Mulligan	-farmstead and orchard in subject property
	S-central part	Thomas Parker	-farmstead and orchard in subject property
	SE part	William Young	-farmstead and orchard in subject property
Lot 9, Concession 5	N ½	Thomas Webber	-farmstead and orchard in subject property
	S ½	William Young	-farmstead and orchard in subject property
Lot 10, Concession 5	W ½	Isaac Duffield Sr.	-farmstead and orchard in subject property





LOT	PART	LANDOWNER	COMMENT
	NE ¼	J. Hostein	-farmstead and orchard in subject property
	SE ¼	David Marr	-farmstead and orchard in subject property

While a number of farmsteads are indicated within the current subject property on historic mapping, it does not necessarily mean that one or more structures were not present at that time, earlier or later. Not all features of interest were mapped 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, 1997:100). Given that the subject property fronts four historic concession roads there is the potential for 19<sup>th</sup> 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 study area is in the central part of the clay plain, where the land has been dissected by tributary drainage. The dominant physiographic landform in the northern portion of the subject property is clay plain, while the dominant physiographic landform in the southern portion of the subject property is till plain (MNDM, 2007).

The *Soils of Wentworth County* (Presant et al., 1965) indicates that there are six dominant surface soil types within the subject property, Binbrook silt loam, Beverly silt loam, Brantford silt loam, Smithville silt loam, Toledo silty clay loam, and Bottom Land (Figure 5). Much of the northern portion of the subject property consists of Beverly silt loam. This soil is imperfectly drained and stone free, with gently sloping topography. The southernmost portion of the subject property is made up of Binbrook silt loam. This soil is imperfectly drained and stone free, with gentle to moderate sloping topography. Sections along the northern edge and southwestern portion of the subject property are made up of Brantford silt loam. This soil is well drained and stone free, with moderately sloping topography. Small sections of the northeast portion of the subject property are made up of Smithville silt loam. This soil is moderately well drained and stone free, with moderately sloping topography. The east-central portion of the subject property is made up of Toledo silty clay loam. This soil is poorly drained and stone free, with gently sloping topography. Areas surrounding seasonal streams within the subject property are made up of Bottom Land, alluvial soils surrounding stream courses.

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. There are eighteen small ponds within the subject property and eleven seasonal watercourses within the subject property, including tributaries of the Welland River and tributaries of Twenty Mile Creek (Figure 6).

### 1.3.2 Current Land Use

The subject property is currently largely made up of rural residential and agricultural land, with numerous residences along the concession roads and include a sod farm and a Christmas tree farm. The Southern Pines Golf and Country Club is located on the western edge of the subject property. A pipeline corridor runs through a portion of the property. A railroad cuts across the northeastern corner of the subject property. The subject property is surrounded largely by agricultural land and rural residences, with the community of Mount Hope to the northwest. Glanford Station is located one concession to the south.

Figure 7 shows the current land use of the subject property. No fieldwork was completed as part of this assessment.

### 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 AgGx Borden block.

Table 4 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 4 is provided by MCM through the OASD (MCM, 2023a).



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.

According to the OASD, 187 sites have been registered within one km of the subject property (MCM, 2023a). Thirteen of these sites have been registered within the subject property, while an additional 19 sites are located within 300 m of the subject property. Sites include Indigenous, Euro-Canadian, and multi-component sites, and span from the Palaeoindian period through to the 19<sup>th</sup> and 20<sup>th</sup> centuries. Indigenous site types include campsites, hamlets, findspots, scatters, and hunting losses. Euro-Canadian site types include cabins, homesteads, farmsteads, and mills.

Table 4: Registered Archaeological Sites within 1 km of the Subject Property

REG. #	NAME	TIME PERIOD	CULTURAL AFFILIATION	SITE TYPE	STATUS
AgGx-5	WEYLIE	unknown	unknown	unknown	unknown
AgGx-63	S. Brigham	unknown	unknown	unknown	unknown
AgGx-114	Jerome 4	Archaic	Indigenous	unknown	unknown
AgGx-128	Jerome 5	unknown	unknown	unknown	unknown
AgGx-162	Babyzac	unknown	unknown	unknown	unknown
AgGx-163	Hotz	Other	unknown	camp/campsite	unknown
AgGx-164	White Church	Pre-Contact	Indigenous	camp/campsite	unknown
AgGx-172	-	unknown	unknown	unknown	unknown
AgGx-173	-	unknown	unknown	unknown	unknown
AgGx-174	-	unknown	unknown	unknown	unknown
AgGx-175	-	unknown	unknown	unknown	unknown
AgGx-177	Chippewa Creek	Paleo-Indian, Late, Woodland, Middle	Indigenous	unknown	unknown
AgGx-179	Palermo	Archaic	Indigenous	unknown	unknown
AgGx-180	West Bank	Archaic, Early	Indigenous	unknown	unknown
AgGx-181	Many Splendors A	Archaic, Late	Indigenous	unknown	unknown
AgGx-182	Many Splendors B	Archaic	Indigenous	unknown	unknown
AgGx-183	Many Splendors C	Archaic, Late	Indigenous	unknown	unknown
AgGx-184	Jerome Historic	Post-Contact	Euro-Canadian	cabin, homestead	unknown
AgGx-185	Kennedy Point	Woodland, Early	Indigenous	unknown	unknown
AgGx-186	Many Splendors D	Archaic	Indigenous	unknown	unknown
AgGx-187	Many Splendors E	Woodland, Late	Iroquoian	unknown	unknown
AgGx-257	Lancaster	Woodland, Late	Iroquoian	hamlet	Further CHVI
AgGx-285	Strathearne	Archaic, Early	Indigenous	findspot	unknown
AgGx-286	Southern Pine	Pre-Contact	Indigenous	scatter	unknown
AgGx-287	Marion	unknown	unknown	unknown	unknown



Stage 1 Archaeological Assessment  
Whitechurch Secondary Plan  
Lots 9 to 11, Concession 4 & Lots 6 to 10, Concession 5,  
Township of Glanford, City of Hamilton, ON

REG. #	NAME	TIME PERIOD	CULTURAL AFFILIATION	SITE TYPE	STATUS
AgGx-288	Ferris	Archaic, Late	Indigenous	findspot	unknown
AgGx-289	Miles	Archaic, Early	Indigenous	scatter	unknown
AgGx-290	Nebo	Archaic, Late	Indigenous	findspot	unknown
AgGx-291	Tyneside	Archaic, Middle	Indigenous	findspot	unknown
AgGx-292	Tisdale	Pre-Contact	Indigenous	scatter	unknown
AgGx-293	Longview	Pre-Contact	Indigenous	scatter	unknown
AgGx-294	Mount Hope	Archaic, Early, Archaic, Middle	Indigenous	camp/campsite	unknown
AgGx-295	Kirk	Pre-Contact	Indigenous	scatter	unknown
AgGx-296	Woodbrook	Pre-Contact	Indigenous	scatter	unknown
AgGx-297	Glanford	Pre-Contact	Indigenous	findspot	unknown
AgGx-298	Southampton	Archaic, Middle	Indigenous	camp/campsite	unknown
AgGx-299	Trimble	Archaic, Early, Archaic, Middle, Pre-Contact	Indigenous	scatter	unknown
AgGx-300	Niapenco	Pre-Contact	Indigenous	findspot	unknown
AgGx-332	-	Pre-Contact	Indigenous	findspot	unknown
AgGx-333	-	Post-Contact	Euro-Canadian	findspot	unknown
AgGx-334	-	Pre-Contact	Indigenous	findspot	unknown
AgGx-335	-	Pre-Contact	Indigenous	findspot	unknown
AgGx-336	-	Pre-Contact	Indigenous	findspot	unknown
AgGx-337	-	Pre-Contact	Indigenous	scatter	unknown
AgGx-338	-	Pre-Contact	Indigenous	findspot	unknown
AgGx-339	-	Other	Neutral	findspot	unknown
AgGx-340	-	Pre-Contact	Indigenous	findspot	unknown
AgGx-341	-	Archaic, Early	Indigenous	findspot	unknown
AgGx-342	-	Pre-Contact	Indigenous	findspot	unknown
AgGx-343	-	Archaic	Indigenous	findspot	unknown
AgGx-344	-	Pre-Contact	Indigenous	findspot	unknown
AgGx-345	-	Woodland, Middle	Indigenous	findspot	unknown
AgGx-346	-	Archaic, Late	Indigenous	findspot	unknown
AgGx-360	Colonel Brandon	Archaic, Late	Indigenous	findspot	unknown
AgGx-361	Wolverine	unknown	unknown	unknown	unknown
AgGx-470	Mountain Gate I	unknown	unknown	unknown	unknown
AgGx-471	Mountain Gate II	Pre-Contact	Indigenous	camp/campsite	No further CHVI
AgGx-472	Mountain Gate III	unknown	unknown	unknown	unknown
AgGx-473	Mountain Gate IV	unknown	unknown	unknown	unknown
AgGx-474	Mountain Gate V	unknown	unknown	unknown	unknown
AgGx-475	-	unknown	unknown	unknown	unknown
AgGx-476	-	unknown	unknown	unknown	unknown
AgGx-477	-	unknown	unknown	unknown	unknown
AgGx-478	Mountain Gate IX	unknown	unknown	unknown	unknown



Stage 1 Archaeological Assessment  
Whitechurch Secondary Plan  
Lots 9 to 11, Concession 4 & Lots 6 to 10, Concession 5,  
Township of Glanford, City of Hamilton, ON

REG. #	NAME	TIME PERIOD	CULTURAL AFFILIATION	SITE TYPE	STATUS
AgGx-479	-	unknown	unknown	unknown	unknown
AgGx-480	-	unknown	unknown	unknown	unknown
AgGx-481	-	unknown	unknown	unknown	unknown
AgGx-499	-	Woodland, Late	Neutral	unknown	No further CHVI
AgGx-500	-	Archaic, Middle	Indigenous	unknown	No further CHVI
AgGx-501	-	Pre-Contact	Indigenous	scatter	No further CHVI
AgGx-587	-	Archaic, Late, Archaic, Middle	unknown	scatter	Further CHVI
AgGx-588	-	Other	unknown	unknown	Further CHVI
AgGx-590	-	Pre-Contact	Indigenous	scatter	No further CHVI
AgGx-591	-	Woodland, Late	Indigenous	scatter	No further CHVI
AgGx-596	-	Pre-Contact	-	scatter	Further CHVI
AgGx-597	-	Archaic, Late	Indigenous	scatter	Further CHVI
AgGx-603	-	Archaic, Middle, Woodland, Middle	Indigenous	scatter	No further CHVI
AgGx-604	-	Woodland, Middle	Indigenous	scatter	No further CHVI
AgGx-605	-	Pre-Contact	Indigenous	scatter	No further CHVI
AgGx-606	-	Archaic, Early, Archaic, Middle	Indigenous	unknown	Further CHVI
AgGx-607	-	Pre-Contact	Indigenous	scatter	No further CHVI
AgGx-608	-	Pre-Contact, Post-Contact	Indigenous	scatter, homestead	No further CHVI
AgGx-609	-	Pre-Contact	Indigenous	findspot	No further CHVI
AgGx-616	-	Pre-Contact	Indigenous	scatter	No further CHVI
AgGx-617	-	Pre-Contact	Indigenous	scatter	No further CHVI
AgGx-618	-	Pre-Contact	Indigenous	findspot	Further CHVI
AgGx-619	-	Archaic, Middle	Indigenous	findspot	No further CHVI
AgGx-620	-	Pre-Contact	Indigenous	scatter	No further CHVI
AgGx-621	-	Pre-Contact	Indigenous	scatter	No further CHVI
AgGx-622	-	Woodland, Late	Indigenous	findspot	No further CHVI
AgGx-623	-	Pre-Contact	Indigenous	scatter	No further CHVI
AgGx-624	-	Pre-Contact	Indigenous	scatter	No further CHVI
AgGx-625	-	Pre-Contact	Indigenous	scatter	No further CHVI
AgGx-626	-	Archaic, Late	Indigenous	scatter	No further CHVI
AgGx-627	-	Archaic, Middle	Indigenous	scatter	No further CHVI
AgGx-726	-	Post-Contact	unknown	farmstead	No further CHVI
AgGx-727	Homestead 2	Archaic, Late	Indigenous	findspot	No further CHVI
AgGx-728	-	Pre-Contact	unknown	camp/campsite	No further CHVI
AgGx-729	-	Pre-Contact	unknown	camp/campsite	No further CHVI
AgGx-730	Homestead 5	Archaic, Late	Indigenous	scatter	No further CHVI
AgGx-731	-	Pre-Contact, Post-Contact	unknown	camp/campsite, farmstead	No further CHVI
AgGx-758	H1	Post-Contact	Euro-Canadian	unknown	No further CHVI



Stage 1 Archaeological Assessment  
Whitechurch Secondary Plan  
Lots 9 to 11, Concession 4 & Lots 6 to 10, Concession 5,  
Township of Glanford, City of Hamilton, ON

REG. #	NAME	TIME PERIOD	CULTURAL AFFILIATION	SITE TYPE	STATUS
AgGx-759	P1	Archaic, Late	unknown	scatter	No further CHVI
AgGx-760	P2	Pre-Contact	Indigenous	scatter	No further CHVI
AgGx-761	P3	Woodland, Late	Indigenous	scatter	No further CHVI
AgGx-762	P4	Pre-Contact	Indigenous	scatter	No further CHVI
AgGx-763	P8	Pre-Contact	Indigenous	scatter	No further CHVI
AgGx-764	P9	Pre-Contact	Indigenous	scatter	No further CHVI
AgGx-765	P10	Pre-Contact	Indigenous	scatter	No further CHVI
AgGx-766	P14	Pre-Contact	Indigenous	scatter	No further CHVI
AgGx-965	-	Post-Contact	Euro-Canadian	residential	No further CHVI
AgGx-992	-	Pre-Contact, Post-Contact	Indigenous, Euro-Canadian	scatter, farmstead	No further CHVI
AgGx-993	-	Pre-Contact, Post-Contact	Indigenous, Euro-Canadian	scatter, farmstead	No further CHVI
AgGx-1001	AgGx-1001	Woodland	unknown	camp/campsite	No further CHVI
AgGx-1002	AgGx-1002	Pre-Contact	unknown	camp/campsite	No further CHVI
AgGx-1021	-	Pre-Contact	unknown	unknown	No further CHVI
AgGx-1026	-	Archaic, Middle	unknown	findspot	No further CHVI
AgGx-1027	-	Archaic, Late	unknown	findspot	No further CHVI
AgGx-1030	WCR-2	Pre-Contact, Post-Contact	unknown	scatter	Further CHVI
AgGx-1033	P2	Pre-Contact	Indigenous	camp/campsite	No further CHVI
AgGx-1034	P3	Pre-Contact	Indigenous	camp/campsite	No further CHVI
AgGx-1035	P7	Woodland, Middle	Indigenous	camp/campsite	Further CHVI
AgGx-1036	-	Archaic, Late	Indigenous	hunting	No further CHVI
AgGx-1037	H6	Pre-Contact	Indigenous	camp/campsite	No further CHVI
AgGx-1038	H4	Post-Contact	Euro-Canadian	farmstead	No further CHVI
AgGx-1061	-	Archaic, Late	Indigenous	hunting loss	No further CHVI
AgGx-1062	-	Archaic, Late	Indigenous	hunting loss	No further CHVI
AgGx-1063	-	Woodland, Middle	Indigenous	hunting loss	No further CHVI
AgGx-1064	-	Archaic, Middle	Indigenous	hunting loss	No further CHVI
AgGx-1065	-	Archaic, Late	Indigenous	hunting loss	No further CHVI
AgGx-1066	-	Archaic, Late	Indigenous	hunting loss	No further CHVI
AgGx-1067	-	Woodland, Late	Indigenous	hunting loss	No further CHVI
AgGx-1068	-	Archaic, Late	Indigenous	hunting loss	No further CHVI
AgGx-1071	Terryberry Sawmill	Pre-Contact, Post-Contact	Indigenous, Euro-Canadian	scatter, mill	Further CHVI
AgGx-1072	-	Pre-Contact, Post-Contact	Indigenous, Euro-Canadian	scatter	No further CHVI
AgGx-1073	-	Pre-Contact	Indigenous	scatter	No further CHVI
AgGx-1075	-	Pre-Contact	Indigenous	camp/campsite	No further CHVI
AgGx-1076	-	Pre-Contact	Indigenous	camp/campsite	No further CHVI
AgGx-1077	-	Pre-Contact	Indigenous	camp/campsite	No further CHVI
AgGx-1078	-	Pre-Contact	Indigenous	scatter	No further CHVI





Stage 1 Archaeological Assessment  
Whitechurch Secondary Plan  
Lots 9 to 11, Concession 4 & Lots 6 to 10, Concession 5,  
Township of Glanford, City of Hamilton, ON

REG. #	NAME	TIME PERIOD	CULTURAL AFFILIATION	SITE TYPE	STATUS
AgGx-1079	-	Pre-Contact	Indigenous	scatter	No further CHVI
AgGx-1080	-	Pre-Contact	Indigenous	scatter	No further CHVI
AgGx-1081	-	Pre-Contact	Indigenous	scatter	No further CHVI
AgGx-1082	-	Pre-Contact	unknown	unknown	No further CHVI
AgGx-1083	-	Pre-Contact	Indigenous	scatter	No further CHVI
AgGx-1084	-	Pre-Contact	Indigenous	scatter	No further CHVI
AhGx-14	G Smith	Woodland, Late	Iroquoian	hamlet, village	unknown
AhGx-226	Thistle Hill	Other	unknown	camp/campsite	unknown
AhGx-275	Spruce	Archaic, Late	Indigenous	findspot	unknown
AhGx-276	Pine	Pre-Contact	Indigenous	findspot	unknown
AhGx-277	Poplar	Archaic, Late	Indigenous	findspot	unknown
AhGx-570		Archaic, Late	Indigenous	unknown	unknown
AhGx-571	Wright-Maricle	Post-Contact	Euro-Canadian	farmstead	unknown
AhGx-572	The Aeropark 1	Pre-Contact	Indigenous	findspot, scatter	unknown
AhGx-573	-	Archaic, Early	Indigenous	findspot	unknown
AhGx-574	The Aeropark 2 Site	Pre-Contact	Indigenous	findspot	unknown
AhGx-575	The Aeropark 3 Site	Pre-Contact	Indigenous	findspot	unknown
AhGx-576	The Aeropark 4 Site	Archaic, Late	Indigenous	findspot	unknown
AhGx-577	-	Pre-Contact	Indigenous	findspot	unknown
AhGx-610	-	Pre-Contact	Indigenous	findspot	unknown
AhGx-647	Twenty Road	Pre-Contact	Indigenous	scatter	unknown
AhGx-851	-	Archaic, Middle, Woodland, Middle	Indigenous	camp/campsite	Further CHVI
AhGx-852	-	Pre-Contact	Indigenous	scatter	Further CHVI
AhGx-853	-	Pre-Contact	Indigenous	scatter	No further CHVI
AhGx-854	-	Pre-Contact, Post-Contact	Indigenous, Euro-Canadian	scatter	No further CHVI
AhGx-860	-	Pre-Contact	Indigenous	scatter	No further CHVI
AhGx-862	-	Woodland, Late	Indigenous	camp/campsite	Further CHVI
AhGx-863	-	Archaic, Early	Indigenous	scatter	Further CHVI
AhGx-864	-	Pre-Contact	Indigenous	scatter	No further CHVI
AhGx-865	-	Archaic, Early, Archaic, Middle, Woodland, Middle	Indigenous	camp/campsite	Further CHVI
AhGx-866	-	Archaic, Early, Archaic, Middle	Indigenous	scatter	No further CHVI
AhGx-867	-	Pre-Contact	Indigenous	scatter	No further CHVI
AhGx-868	-	Pre-Contact	Indigenous	scatter	No Further CHVI
AhGx-869	-	Pre-Contact	Indigenous	scatter	Further CHVI
AhGx-870	-	Pre-Contact	Indigenous	scatter	No Further CHVI
AhGx-871	-	Pre-Contact	Indigenous	scatter	No Further CHVI
AhGx-872	-	Woodland, Middle	Indigenous	scatter	Further CHVI
AhGx-873	-	Pre-Contact	Indigenous	scatter	No Further CHVI



Stage 1 Archaeological Assessment  
Whitechurch Secondary Plan  
Lots 9 to 11, Concession 4 & Lots 6 to 10, Concession 5,  
Township of Glanford, City of Hamilton, ON

REG. #	NAME	TIME PERIOD	CULTURAL AFFILIATION	SITE TYPE	STATUS
AhGx-876	-	Woodland	Indigenous	scatter	Further CHVI
AhGx-877	-	Pre-Contact	Indigenous	findspot	No Further CHVI
AhGx-878	-	Pre-Contact	Indigenous	scatter	No Further CHVI
AhGx-879	-	Pre-Contact	Indigenous	camp / campsite	Further CHVI
AhGx-880	-	Pre-Contact	Indigenous	findspot	No Further CHVI
AhGx-881	-	Pre-Contact	Indigenous	findspot	No Further CHVI
AhGx-882	-	Woodland, Early	Indigenous	scatter	No Further CHVI

Thirteen of the 187 registered archaeological sites are located within the current subject property (MCM, 2023a). A summary of each of these sites is provided below.

- Archaeological site AgGx-603 is located within the subject property. The site was first documented by Timmins Martelle Heritage Consultants Inc. (“TMHC”) during pedestrian survey. Two projectile points and two flakes were recovered from a 13.5 m by 5 m area (TMHC, 2017a:197). The projectile points included a Stanly Stemmed type dating to the Middle Archaic period, circa 8,000 to 7,500 years before present, and a Jack’s Reef type dating to the Middle Woodland to early Late Woodland period, circa 600 to 400 years before present. The site was determined to retain CHVI and was recommended for Stage 3 assessment (TMHC, 2017a:226). TMHC conducted a Stage 3 assessment at the site, which yielded 7 artifacts from a 10 m by 10 m area (TMHC, 2017d). The site was determined to have no further CHVI (TMHC, 2017d:11).
- Archaeological site AgGx-606 is located within the subject property. The site was first documented by TMHC during pedestrian survey and test pit survey. A total of 471 artifacts were recovered from a 150 m by 195 m area, with a dense concentration of artifacts measuring 100 m by 90 m. All artifacts were lithic, and included flakes, bifaces, scrapers, and projectile points (TMHC, 2017a:185). The projectile points included a Brewerton side-notched type dating to the Middle Archaic period, circa 5,500 to 4,500 years before present, and a possible Nettling type dating to the Early Archaic period, circa 10,000 to 9,500 years before present. The site was determined to retain CHVI and was recommended for Stage 3 assessment (TMHC, 2017a:235). The site was discovered during work for an Enbridge pipeline replacement. Given the large size and density of artifacts, the proposed pipeline was rerouted to avoid the site (TMHC, 2017a:252). The site retains CHVI and requires Stage 3 assessment. TMHC also indicated that given the large size and density of artifacts found at the site, Stage 4 mitigation of impacts would likely be required (TMHC, 2017a:235).
- Archaeological site AgGx-618 is located within the subject property. The site was first documented by TMHC during test pit survey. One flake was recovered from one artifact bearing, or “positive” test pit. A test unit was not excavated for the site during the Stage 2 assessment (TMHC, 2017a:186). The site was discovered during work for an Enbridge pipeline replacement and because of its proximity to AgGx-606, the proposed pipeline was rerouted to avoid this site as well (TMHC, 2017a:253). As no test unit has been





excavated at the site, AgGx-618 retains CHVI and was recommended for Stage 3 assessment by TMHC (TMHC, 2017a:253).

- Archaeological site AgGx-619 is located within the subject property. The site was first documented by TMHC during a pedestrian survey. The site consists of a single isolated Otter Creek type projectile point dating to the Middle Archaic period, circa 6,000 to 5,000 years before present (TMHC, 2017a:196). The site was determined to have no further CHVI (TMHC, 2017a:218).
- Archaeological site AgGx-620 is located within the subject property. The site was first documented by TMHC during a pedestrian survey and consists of four flakes found in a 6 m by 22 m area (TMHC, 2017a:197). The site was determined to have no further CHVI (TMHC, 2017a:243).
- Archaeological site AgGx-621 is located within the subject property. The site was first documented by TMHC during a pedestrian survey and test pit survey and consists of three flakes and a biface found in a 13.5 m by 10 m area (TMHC, 2017a:200). The site was determined to have no further CHVI (TMHC, 2017a:243).
- Archaeological site AgGx-623 is located within the subject property. The site was first documented by TMHC during a pedestrian survey and test pit survey. The site consists of 17 flakes from a 72 m by 43 m area (TMHC, 2017a:187). The site was determined to have no further CHVI (TMHC, 2017a:242).
- Archaeological site AgGx-624 is located within the subject property. The site was first documented by TMHC during a pedestrian survey and consists of 22 flakes, one scraper, and one indeterminate projectile point tip fragment found within a 123 m by 40 m area (TMHC, 2016:188). The site was determined to have no further CHVI (TMHC, 2017a:242).
- Archaeological site AgGx-625 is located within the subject property. The site was first documented by TMHC during a pedestrian survey and consists of 4 flakes found within a 10 m by 18 m area (TMHC, 2017a:190). The site was determined to have no further CHVI (TMHC, 2017a:242).
- Archaeological site AgGx-626 is located within the subject property. The site was first documented by TMHC during a pedestrian survey and consists of 4 flakes and a projectile point found within a 10 m by 30 m area (TMHC, 2016:190). The projectile point was a Lamoka type dating to the Late Archaic period, circa 4,500-4,000 years before present. The site was determined to have no further CHVI (TMHC, 2017a:242).
- Archaeological site AgGx-627 is located within the subject property. The site was first documented by TMHC during a pedestrian survey and consists of a core, a biface, and a projectile point found within a 31 m by 2 m area (TMHC, 2017a:191). The projectile point was a possible Brewerton type dating to the Middle Archaic period, circa 5,500-



4,500 years before present. The site was determined to have no further CHVI (TMHC, 2017a:242).

- Archaeological site AgGx-1029, the WCR-1 Site, is located within the subject property. The site was first documented by Stantec Consulting Ltd. (“Stantec”) during Stage 2 survey and consisted of 501 Indigenous and Euro-Canadian artifacts found within a 95 m by 15 m area (Stantec, 2022). Stantec conducted a Stage 3 assessment at the site, which yielded 3,165 Indigenous and 6 Euro-Canadian artifacts from 45 units excavated across a 105 m by 15 m area (Stantec, 2022). The Indigenous and Euro-Canadian component of the site was determined to have further CHVI and Stage 4 mitigation was recommended (Stantec, 2023a). The Euro-Canadian component of the site was determined to have no further CHVI (Stantec, 2023a). Stantec has completed Stage 4 mitigation of AgGx-1029, however, a report documenting the fieldwork has not yet been filed in the *Public Register of Archaeological Reports*. The OASD indicates the Stage 4 excavation is complete and the site has no further CHVI within Stantec’s project area but extends to the north of Stantec’s project limits (MCM, 2023a).
- Archaeological site AgGx-1030, the WCR-2 Site, is located within the subject property. The site was first documented by Stantec Consulting Ltd. (“Stantec”) during Stage 2 survey and consisted of 141 Indigenous and Euro-Canadian artifacts found within a 40 m by 15 m area (Stantec, 2022). Stantec conducted a Stage 3 assessment at the site, which yielded 426 Indigenous artifacts and 679 Euro-Canadian artifacts from a 45 m by 15 m area (Stantec, 2023b). Both the Indigenous and Euro-Canadian components of the site were determined to have further CHVI and Stage 4 mitigation was recommended (Stantec, 2023b).

An additional 19 registered archaeological sites are located within 300 m of the subject property (MCM, 2023a). A summary of each of these sites is provided below.

- Archaeological site AgGx-285, the Strathearne Site, is located 75 m from the subject property. The site was documented by Archaeological Services Inc. (“ASI”) in 2001 and consisted of an isolated Early Archaic period Nettling type projectile point (ASI, 2001). No further fieldwork was recommended for this site (MCM, 2023a).
- Archaeological site AgGx-286, the Southern Pine Site, is located 165 m from the subject property. The site was documented by ASI in 2001 and consisted of six flakes within a 30 m radius area (ASI, 2001). ASI determined the site had further CHVI and recommended Stage 3 assessment (MCM, 2023a).
- Archaeological site AgGx-287, the Marion Site, is located 185 m from the subject property. The site was first documented by ASI in 2001 and consisted of three bifaces and 15 flakes within a 25 m radius area (ASI, 2001). The site was redocumented by New Directions Archaeology Ltd. (“NDA”) in 2003. A total of 33 lithic artifacts were recovered during NDA’s survey (NDA, 2003). NDA determined the site had further CHVI and recommended Stage 3 assessment (MCM, 2023a).



- Archaeological site AgGx-288, the Ferris Site, is located 190 m from the subject property. The site was documented by ASI in 2001 and consisted of an isolated Late Archaic period Lamoka type projectile point (ASI, 2001). No further fieldwork was recommended for this site (MCM, 2023a).
- Archaeological site AgGx-289, the Miles Site, is located 270 m from the subject property. The site was first documented by ASI in 2001 and consisted of eight flakes and an Early Archaic period Nettling type projectile point within a 5 m by 5 m area (ASI, 2001). The site was redocumented by NDA in 2003. A total of 13 lithic artifacts were recovered during NDA's survey, with Stage 3 unit excavations also completed at the site (NDA, 2003). NDA determined the site required no further fieldwork (MCM, 2023a).
- Archaeological site AgGx-290, the Nebo Site, is located 130 m from the subject property. The site was documented by ASI in 2001 and consisted of an isolated Late Archaic period Genesee type projectile point (ASI, 2001). No further fieldwork was recommended for this site (MCM, 2023a).
- Archaeological site AgGx-337 is located 280 m from the subject property. The site was first documented by TMHC during a pedestrian survey and consists of 12 artifacts within a 70 m by 25 m area (TMHC, 2017a:149). The site was interpreted as a lithic scatter dating to the Early Archaic to Middle Archaic period. TMHC determined the site had further CHVI and recommended Stage 3 assessment (TMHC, 2017a:228).
- Archaeological site AgGx-338 is located 210 m from the subject property. The site was first documented by TMHC during a pedestrian survey and consists of 45 artifacts within a 75 m by 52 m area (TMHC, 2017a:143). The site was interpreted as a lithic scatter. TMHC determined the site had further CHVI and recommended Stage 3 assessment (TMHC, 2017a:228).
- Archaeological site AgGx-343 is located 300 m from the subject property. The site was first documented by TMHC during a pedestrian survey and consists of a single Early Archaic period corner-notched projectile point (TMHC, 2017a:90). TMHC determined the site had further CHVI and recommended Stage 3 assessment (TMHC, 2017a:225).
- Archaeological site AgGx-344 is located 295 m from the subject property. The site was first documented by TMHC during a pedestrian survey and consists of a flake and three bifaces within a 30 m by 20 m area (TMHC, 2017a:91). The site was interpreted as a diffuse lithic scatter. Based on a Collingwood chert biface, the site was interpreted as a possible Palaeoindian or 17<sup>th</sup> century Attawandaron site (TMHC, 2017a:91). TMHC determined the site had further CHVI and recommended Stage 3 assessment (TMHC, 2017a:226).
- Archaeological site AgGx-346 is located 295 m from the subject property. The site was first documented by TMHC during test pit survey and consists of a Late Archaic period Crawford Knoll projectile point (TMHC, 2017a:95). The site was interpreted as an isolated findspot, however because it was recovered during test pit survey, TMHC



determined the site had further CHVI and recommended Stage 3 assessment (TMHC, 2017a:244).

- Archaeological site AgGx-587 is located 170 m from the subject property. The site was first documented by TMHC during a pedestrian survey and consists of 171 artifacts within a 150 m by 120 m area (TMHC, 2017a:178). The site was interpreted as a lithic scatter dating to the Middle Archaic to Late Archaic period. TMHC determined the site had further CHVI and recommended Stage 3 assessment (TMHC, 2017a:229).
- Archaeological site AgGx-596 is located 190 m from the subject property. The site was first documented by TMHC during a pedestrian survey and consists of 34 flakes found within a 23 m by 54 m area (TMHC, 2017a:180). The site was interpreted as a lithic scatter. TMHC determined the site had further CHVI and recommended Stage 3 assessment (TMHC, 2017a:229).
- Archaeological site AgGx-597 is located 150 m from the subject property. The site was first documented by TMHC during a pedestrian survey and consists of 3 artifacts flakes found within a 1 m by 10 m area (TMHC, 2017a:182). The site was interpreted as a lithic scatter dating to the Late Archaic period. TMHC determined the site had further CHVI and recommended Stage 3 assessment (TMHC, 2017a:226).
- Archaeological site AgGx-604 is located 35 m from the subject property. The site was first documented by TMHC during a test pit survey and consists of 8 flakes found in 5 positive test pits within a 5 m by 20 m area (TMHC, 2017a:183). The site was interpreted as a possible camp. TMHC determined the site had further CHVI and recommended Stage 3 assessment (TMHC, 2017a:232).
- Archaeological site AgGx-605 is located 70 m from the subject property. The site was first documented by TMHC during a test pit survey and consists of 7 flakes found in two positive test pits and a test unit dug 2.5 m apart (TMHC, 2017a:184). The site was interpreted as a possible camp. TMHC determined the site had further CHVI and recommended Stage 3 assessment (TMHC, 2017a:232).
- Archaeological site AgGx-616 is located 270 m from the subject property. The site was first documented by TMHC during a pedestrian survey and consists of 24 flakes found within a 38 m by 94.5 m area (TMHC, 2017a:182). The site was interpreted as a lithic scatter. TMHC determined the site had no further CHVI (TMHC, 2017a:221).
- Archaeological site AgGx-622 is located 75 m from the subject property). The site was first documented by TMHC during a pedestrian survey and consists of two mending fragments of a Late Woodland projectile point (TMHC, 2017a:202). The site was interpreted as an isolated find and was determined to have no further CHVI (TMHC, 2017a:243).
- Archaeological site AgGx-965 is located 110 m from the subject property. The site was first documented by DCL during test pit survey and consists of 76 Euro-Canadian



artifacts found within a 23 m by 13 m area (DCL, 2018a). DCL determined the site had further CHVI and recommended Stage 3 assessment (DCL, 2018a). Stage 3 assessment, also conducted by DCL, resulted in the recovery of 1,499 artifacts from unit excavation across a 26 m by 31 m area. The site was determined to date largely to the 20<sup>th</sup> century and was noted to be disturbed. DCL determined the site had no further CHVI (DCL, 2018b).

### 1.3.3.2 Previous Archaeological Reports within the Current Subject Property

A review of archaeological reports within the *Public Register of Archaeological Reports* indicated that 15 archaeological reports detailing previous archaeological fieldwork within the subject property had been filed with MCM at the time this report was written (MCM, 2023b). Reports were searched through the register based on site information, historic lots and concessions, communities, and nearby streets. A summary of each of these reports is provided below. Figure 8 shows the location of these assessments in relation to the current subject property.

***The 2015 Stage 1 Archaeological Assessment of the Proposed Enbridge Pipelines Inc. Line 10, Westover Segment Replacement Project, City of Hamilton, Ontario. D.R. Poulton & Associates Inc. Report dated July 7, 2015. PIF P316-0306-2015.***

D.R. Poulton & Associates (“DPA”) completed a Stage 1 assessment for the decommissioning and replacement of an Enbridge pipeline, Line 10. DPA assessed a 33 km Line 10 corridor for the preferred replacement route along with a 1 km radius surrounding the preferred pipeline route. A portion of the Line 10 corridor is located within the current subject property and the 1 km radius around the pipeline included the entirety of the current subject property. Stage 2 survey was recommended for the preferred route and associated impact areas as far in advance of construction as possible (DPA, 2015:1). While the current subject property has been subject to Stage 1 assessment, DPA’s report focused largely on the pipeline corridor itself, and as it was done nearly a decade ago, additional assessments and research have been completed on the current subject property.

***Stage 1-2 Archaeological Assessment: Proposed Temporary Access and Workspaces in Glanford Township (CWP 1436S), Enbridge Line 10, Parts of Various Lots, Concession 5, Geographic Township of Glanford, former Wentworth County, now City of Hamilton, Ontario. Stantec. Report dated September 23<sup>rd</sup>, 2015. PIF P256-0309-2014.***

Stantec Consulting Ltd. (“Stantec”) was contracted by Enbridge Pipelines Inc. to complete a Stage 1 & 2 archaeological assessment of 10 proposed temporary access roads and workspaces for their Line 10 Integrity Dig program. Four of Stantec’s workspace areas are located within the current subject property. A fifth workspace is located within 45 m of the current subject property. No archaeological resources were identified during the assessment, and no further assessment was recommended (Stantec, 2015:5.1).





***Stage 1-2 Archaeological Assessment: Proposed Temporary Access and Workspaces in Glanford Township, Various Integrity Digs (CWP 1511S), Enbridge Line 11, Part of Lots 1, 2, 3, 7, 8, and 12, Concession 5, Geographic Township of Glanford, former Wentworth County, now City of Hamilton, Ontario. Stantec. Report dated April 14<sup>th</sup>, 2016. PIF P256-0326-2015.***

Stantec was contracted by Enbridge Pipelines Inc. to complete a Stage 1 & 2 archaeological assessment of 10 proposed temporary access roads and workspaces for their Line 11 Integrity Dig program. One of these workspace areas was located within the current subject property. No archaeological resources were identified during the assessment, and no further assessment was recommended (Stantec, 2015:5.1).

***Stage 2 Archaeological Assessment, Enbridge Pipelines Inc., Line 10 Westover Segment Replacement Project, Geotechnical Borehole Work Areas and Access Routes, City of Hamilton, Ontario. Timmins Martelle Heritage Consultants. Report dated December 22<sup>nd</sup>, 2015. PIF P1075-0017-2015.***

TMHC was contracted by Enbridge to complete a Stage 2 assessment along a corridor for the proposed replacement of their Line 10. The assessment included survey of 23 geotechnical borehole areas and access routes. While none of the geotechnical borehole areas were located within the current subject property or within 50 m of the current subject property, Stage 2 assessment was recommended for unassessed portions of the pipeline corridor, including areas within the current subject property (TMHC, 2015:83-85). Three sites, all isolated findspots, were documented during TMHC's survey, however none of these are within or near the current subject property and none were determined to retain CHVI (TMHC, 2015).

***Stage 2 Archaeological Assessment, Enbridge Pipelines Inc., Line 10 Westover Segment Replacement Project, 2015 Fieldwork, City of Hamilton, Ontario. Timmins Martelle Heritage Consultants. Report dated April 19<sup>th</sup>, 2016. PIF P1075-0018-2016.***

TMHC was contracted by Enbridge to complete a Stage 2 assessment along a corridor for the proposed replacement of their Line 10. The assessment included survey of portions of the corridor as well as testing for three geotechnical borehole areas and access routes. While none of the tested areas were located within the current subject property or within 50 m of the current subject property, Stage 2 assessment was recommended for unassessed portions of the pipeline corridor, including areas within the current subject property (TMHC, 2016:73-75). Nine sites were documented during TMHC's survey, two of which were determined to retain CHVI. None of these sites were in close proximity to the current subject property (TMHC, 2016).

***Stage 2 Archaeological Assessment, Enbridge Pipelines Inc., Line 10 Westover Segment Replacement Project Spring, Summer and Early Fall 2016 Fieldwork, City of Hamilton, Ontario. Timmins Martelle Heritage Consultants. Report dated March 2<sup>nd</sup>, 2017. PIF P324-0098-2016.***

TMHC was contracted by Enbridge to complete a Stage 2 assessment along a corridor for the proposed replacement of their Line 10. The assessment included a portion of the current subject



property. A total of 162 sites were recorded during the assessment. Eleven sites were registered within the current subject property as a result of the assessment. Three of these sites were determined to retain CHVI and were recommended for further assessment, AgGx-603, AgGx-606, and AgGx-618. Due to the large size of AgGx-606, the proposed pipeline replacement route was realigned to avoid this site. As AgGx-618 was in close proximity to this site, it was also avoided because of the realignment (TMHC, 2017a:252). Seven additional unregistered findspots were also documented within TMHC's Line 10 corridor, none of these were deemed to retain CHVI. Twelve additional registered sites were documented within 300 m of the current subject property.

***Stage 2 Archaeological Assessment, Enbridge Pipelines Inc., Line 10 Westover Segment Replacement Project, Hydro One Networks Inc. (HONI) Re-Route and Later Fall 2016 Fieldwork, City of Hamilton, Ontario. Timmins Martelle Heritage Consultants. Report dated March 29<sup>th</sup>, 2017. PIF P1075-0018-2016.***

TMHC was contracted by Enbridge to complete a Stage 2 assessment along a corridor for the proposed replacement of their Line 10. The assessment included survey of portions of the corridor as well as a corridor for the pipeline to be rerouted. While none of the tested areas were located within the current subject property or within 50 m of the current subject property, the report reiterated recommendations for sites found within the current subject property as discussed in their previous fieldwork for the project (TMHC, 2017b:93). Stage 2 assessment was recommended for remaining unassessed portions of the pipeline corridor; however, none of these were within or near the current subject property (TMHC, 2017b). Twenty-eight sites were documented during TMHC's survey, none of these sites were in close proximity to the current subject property (TMHC, 2017b).

***Stage 2 Archaeological Assessment, Enbridge Pipelines Inc., Line 10 Westover Segment Replacement Project, Hydro One Networks Inc. (HONI) re-Route and Later Fall 2016 Fieldwork, City of Hamilton, Ontario. Timmins Martelle Heritage Consultants. Report dated June 29<sup>th</sup>, 2017. PIFs P324-0201-2017, P324-0228-2017.***

TMHC was contracted by Enbridge to complete a Stage 2 assessment along a corridor for the proposed replacement of their Line 10. The assessment included survey of outstanding portions of the corridor as well as minor workspace area changes throughout the corridor. While none of the tested areas were located within the current subject property or within 50 m of the current subject property, the report reiterated recommendations for sites found within the current subject property as discussed in their previous fieldwork for the project (TMHC, 2017c). Stage 2 assessment was recommended for remaining unassessed portions of the pipeline corridor; however, none of these areas were within or near the current subject property (TMHC, 2017c). Seventeen were documented during TMHC's survey, none of these sites were in close proximity to the current subject property (TMHC, 2017c).

***Stage 3 Archaeological Assessment Enbridge Pipelines Inc. Line 10 Westover Segment Replacement Pipeline Tract 110 Location 1 (AgGx-603) within Lot 7, Concession 5 Geographic Township of Glanford Former Wentworth County Now City of Hamilton,***



**Ontario. Timmins Martelle Heritage Consultants. Report dated February 27, 2017.  
PIF P324-0139-2016.**

TMHC was contracted by Enbridge to complete a Stage 3 assessment at AgGx-603 as part of Enbridge's proposed replacement of their Line 10. The assessment consisted of hand excavation of 11 test units across a 10 m by 10 m area and resulted in the recovery of seven artifacts and a determination that the site had no further CHVI and required no further fieldwork ((TMHC, 2017d:11).

***Stage 1-2 Archaeological Assessment: White Church Road Pipeline Installation Project: Part of Lot 6, Concession 5, Geographic Township of Glanford, former County of Wentworth, now City of Hamilton, Ontario. Stantec Consulting Ltd. Report dated March 25<sup>th</sup>, 2022. PIF P1060-0110-2021.***

Stantec was contracted by Enbridge to complete a Stage 1 & 2 assessment of an ha area for the proposed White Church Road Pipeline Installation Project. The assessment included a portion of land in the southwest portion of the current subject property. Two sites were identified during the assessment, registered in the OASD as AgGx-1029 and AgGx-1030. Both sites contain Indigenous and Euro-Canadian components and both sites were determined to retain CHVI and require Stage 3 assessment (Stantec, 2022).

***Stage 3 Archaeological Assessment: White Church Road Pipeline Installation, WCR-1 (AgGx-1029) Part of Lot 6, Concession 5, Geographic Township of Glanford, former County of Wentworth, now City of Hamilton, Ontario. Stantec Consulting Ltd. Report dated May 2<sup>nd</sup>, 2023. PIF P256-0692-2021.***

Stantec was contracted by Enbridge to complete a Stage 3 assessment of site AgGx-1029 along a corridor for the proposed White Church Road Pipeline Installation Project. The assessment included a portion of the current subject property. The Stage 3 assessment resulted in the recovery of 3,165 Indigenous artifacts and 6 Euro-Canadian artifacts from 45 test units. Both the Indigenous component of AgGx-1029 was determined to retain CHVI and was recommended for Stage 4 mitigation through excavation, as avoidance and protection was not a viable option for the project (Stantec, 2023a).

***Stage 4 Archaeological Mitigation by Excavation: White Church Road Pipeline Installation, WCR-1 (AgGx-1029) Part of Lot 6, Concession 5, Geographic Township of Glanford, former County of Wentworth, now City of Hamilton, Ontario. Stantec Consulting Ltd. Report not in Public Register. PIF P1148-0030-2022.***

Stantec has completed Stage 4 mitigation of AgGx-1029, located within the subject property. A report for this fieldwork has not yet been filed in the *Public Register of Archaeological Reports*, however the OASD indicates the Stage 4 excavation is complete and the site has no further CHVI within Stantec's project area. Site registration information indicates that AgGx-1029 may extend outside of Stantec's project limits to the north, on lands that have not been subject to Stage 2 archaeological assessment (MCM, 2023a). A Stage 2 archaeological assessment was





recommended for future development impacts within lands to the north of the site (Stantec, 2023a).

***Stage 3 Archaeological Assessment: White Church Road Pipeline Installation, WCR-2 (AgGx-1030) Part of Lot 6, Concession 5, Geographic Township of Glanford, former County of Wentworth, now City of Hamilton, Ontario. Stantec Consulting Ltd. Report dated May 3<sup>rd</sup>, 2023. PIF P256-0708-2022.***

Stantec was contracted by Enbridge to complete a Stage 3 assessment of site AgGx-1030 along a corridor for the proposed White Church Road Pipeline Installation Project. The assessment included a portion of the current subject property. The Stage 3 assessment resulted in the recovery of 426 Indigenous artifacts and 679 Euro-Canadian artifacts from 33 test units. Both the Indigenous and Euro-Canadian components of AgGx-1030 were determined to retain CHVI and were recommended for Stage 4 mitigation through excavation, as avoidance and protection was not a viable option for the project.

For the Indigenous component at AgGx-1030, Stantec’s site-specific Stage 4 mitigation recommendations are as follows:

“Stage 4 mitigation of Indigenous component of WCR-2 (AgGx-1030) by excavation will include hand excavation of one-metre units by systematic levels around Stage 3 test units with greatest artifact density, i.e., test units with 10 or more artifacts, as illustrated on Figure 11 and Tile 5 in the Supplementary Documentation. Block units will be excavated into the first five centimetres of subsoil unless excavation uncovers a cultural feature. Soil will be screened through six-mm hardware cloth to facilitate the recovery of any artifacts that may be present and recovered artifacts will be bagged and tagged by provenience. The exposed subsoil surface will be cleaned by shovel or trowel and will be examined for cultural features. If any subsurface cultural features are encountered, they will be recorded and excavated by hand in accordance with Section 4.2.2 and Section 4.2.4 of the MCM’s 2011 *Standards and Guidelines for Consultant Archaeologists*. Further, soil samples will be obtained from subsurface cultural features in accordance with Section 4.4 of the MCM’s 2011 *Standards and Guidelines for Consultant Archaeologists*. The Stage 4 block excavation will extend, regardless of artifact yields, two metres beyond any cultural feature uncovered, but remain within Project boundaries and one metre away from buried utilities.” (Stantec, 2023b).

For the Euro-Canadian component at AgGx-1030, Stantec’s site-specific Stage 4 mitigation recommendations are as follows:

“Stage 4 archaeological mitigation of the Euro-Canadian component of WCR-2 (AgGx-1030) proceed by hand excavation followed by mechanical topsoil removal (MTR). Though no subsurface cultural features or middens were identified during the Stage 3 test unit excavation, based on the artifacts recovered, it has been determined that Stage 3 test units with Euro-Canadian artifact counts



greater than 85 may represent the location of possible nearby midden area. In accordance with Section 4.2.7 of the MCM's 2011 *Standards and Guidelines for Consultant Archaeologists*, the Stage 4 mitigation will consist of the hand excavation of one-metre units around suspected midden areas. It is recommended that the block excavation show a decrease in artifact count around the Stage 3 test units of greater than 85 Euro-Canadian artifacts, as illustrated on Figure 11 and Tile 5 in the Supplementary Documentation. The block excavation will be terminated where Euro-Canadian artifacts counts drop to under 85 artifacts per one-metre unit. Soil will be screened through six-mm mesh and all artifacts will be bagged and tagged by provenience unit. The exposed subsoil surface will be cleaned by shovel and/or trowel and will be examined for cultural features. If any subsurface cultural features are encountered, they will be recorded and excavated by hand in accordance with Section 4.2.2 and Section 4.2.7 of the MCM's 2011 *Standards and Guidelines for Consultant Archaeologists*. Following this, and in accordance with Section 4.2.7 and Section 4.3 of the MCM's 2011 *Standards and Guidelines for Consultant Archaeologists*, the Stage 4 mitigation of the Euro-Canadian component of WCR2 (AgGx-1030) will also involve the MTR of the remainder of the site. The extent of mechanical topsoil removal will extend a minimum of 10 metres beyond any uncovered cultural feature but remain within the Project boundaries and three metres away from buried utilities to maintain Enbridge safety requirements, as illustrated on Figure 11 and Tile 5 in the Supplementary Documentation. If any cultural features are encountered during mechanical topsoil removal, they will be recorded and excavated by hand in accordance with Section 4.2.2 and Section 4.2.7 of the MCM's 2011 *Standards and Guidelines for Consultant Archaeologists*." (Stantec, 2023).

It was further noted that AgGx-1030 may extend outside of Stantec's project limits to the north, on lands that have not been subject to Stage 2 archaeological assessment. A Stage 2 archaeological assessment was recommended for future development impacts within lands to the north of the site (Stantec, 2023).

***Stage 1 Archaeological Assessment, Proposed Development, 8113 Airport Road, Part of Lot 8, Concession 5, Geographic Township of Glanford, Wentworth County, now in the City of Hamilton, Ontario. Archaeological Consultants Canada. Report dated February 27<sup>th</sup>, 2023. PIF P1208-0198-2023.***

ACC was contracted to conduct a Stage 1 assessment of 34.81 ha of lands located in the northcentral portion of the current subject property. ACC recommended the property for Stage 2 assessment including pedestrian survey at 5 m intervals for agricultural fields, test pit survey at 5 m intervals for non-ploughable areas, and confirmation and documentation of all areas of low archaeological potential (ACC, 2023a:22-23).

***Stage 1 Archaeological Assessment, Proposed Development, 7505 Airport Road, Part of Lots 9 and 10, Concession 5, Geographic Township of Glanford, Wentworth County,***



***now in the City of Hamilton, Ontario. Archaeological Consultants Canada. Report dated February 28<sup>th</sup>, 2023. PIF P1208-0197-2023.***

ACC was contracted to conduct a Stage 1 assessment of 93.88 ha of lands located in the eastern portion of the current subject property. ACC recommended the entire property for Stage 2 assessment including pedestrian survey at 5 m intervals for agricultural fields, test pit survey at 5 m intervals for non-ploughable areas, and confirmation and documentation of all areas of low archaeological potential (ACC, 2023b:22-23).

### 1.3.3.3 Previous Archaeological Reports within 50 m of the Current Subject Property

A review of archaeological reports within the *Public Register of Archaeological Reports* indicated that six archaeological reports detailing previous archaeological fieldwork within 50 m of the subject property had been filed with MCM at the time this report was written (MCM, 2023b). Figure 8 shows the location of these assessments in relation to the current subject property.

***Stage 1-2 Archaeological Assessment, 3311 Homestead Drive, Part of Lot 6, Concession 5, Geographic Township of Glanford, County of Wentworth, now in the City of Hamilton, Ontario. AMICK Consultants Limited.. Report dated January 29<sup>th</sup>, 2019. PIF P038-0948-2018.***

AMICK Consultants Limited (“AMICK”) was contracted to conduct a Stage 1 & 2 assessment of a 0.33 ha parcel of land located within 50 m to the west of the current subject property. No archaeological resources were identified during the assessment and no further fieldwork was recommended for the property (AMICK,2019:12).

***Stage 1-2 Archaeological Assessment, 3323 Homestead Drive, Part of Lot 6, Concession 5, Geographic Township of Glanford, County of Wentworth, now in the City of Hamilton, Ontario. Detritus Consulting Limited. Report dated July 10<sup>th</sup>, 2019. PIF P017-0411-2018.***

DCL was contracted to conduct a Stage 1 & 2 assessment of a 0.14 ha parcel of land located within 50 m to the west of the current subject property. No archaeological resources were identified during the assessment and no further fieldwork was recommended for the property (DCL, 2019:16).

***Stage 1 and Stage 2 Archaeological Assessment, 3530 Upper James Street, Part of Lot 5, Concession 5, Geographic Township of Glanford, County of Wentworth, now in the City of Hamilton, Ontario. WSP Canada. Report dated April 25<sup>th</sup>, 2023. PIFs P1078-0096-2020 and P1078-0100-2020.***

WSP Canada (“WSP”) was contracted to conduct a Stage 1 & 2 assessment of a 0.14 ha parcel of land located within 50 m to the west of the current subject property. No archaeological resources were identified during the assessment, however a portion of the study area adjacent to the White Church Cemetery was recommended for Stage 3 Cemetery Investigation (WSP, 2023).



***Stage 4 Construction Monitoring, Enbridge Pipelines Inc. Line 10 Westover Segment Replacement Project, Tract 105 Location 1 (AgGx-596), within Lot 6, Concession 6 Geographic Township of Glanford, Former Wentworth County, Now City of Hamilton, Ontario. Timmins Martelle Heritage Consultants. Report dated August 2018. PIF P324-0253-2017.***

***Stage 4 Construction Monitoring, Enbridge Pipelines Inc. Line 10 Westover Segment Replacement Project, Tract 99 Location 1 (AgGx-587), within Lot 5, Concession 6 Geographic Township of Glanford, Former Wentworth County, Now City of Hamilton, Ontario. Timmins Martelle Heritage Consultants. Report dated September 2018. PIF P324-0257-2017.***

***Stage 4 Construction Monitoring, Enbridge Pipelines Inc. Line 10 Westover Segment Replacement Project, Tract 99 Location 2 (AgGx-588), within Lot 5, Concession 6 Geographic Township of Glanford, Former Wentworth County, Now City of Hamilton, Ontario. Timmins Martelle Heritage Consultants. Report dated September 2018. PIF P324-0259-2017.***

The above three reports prepared by TMHC documented Stage 4 construction monitoring at three archaeological sites for the proposed replacement of Enbridge's Line 10 TMHC, 2018a, b, c). The reports divided the pipeline into tracts of land for the purposes of their study areas, with Tract 99 located within 50 m to the southwest of the current subject property and Tract 105 located within 50 m to the south of the current subject property. While the tracts of land are located within 50 m of the subject property, none of the fieldwork conducted at any of the three sites documented in the reports was within 50 m of the current subject property. AgGx-587 is located 170 m from the subject property, and AgGx-588 and AgGx-596 are both over 300 m from the subject property. The above three reports were included in this document for completeness but are not mapped in Figure 8.

#### 1.3.4 Archaeological Master Plans

The City of Hamilton's *Archaeology Management Plan* details the processes and procedures for treatment of archaeological resources within the City of Hamilton (City of Hamilton, 2012). The management plan has a map detailing all areas within the city thought to hold archaeological potential. According to this map, most portions of the current subject property are shown to be in areas of overall archaeological potential (Figure 9).

#### 1.3.5 Potential for Archaeological Resources

Archaeological potential is defined as the likelihood of finding archaeological sites within a subject property. For planning purposes, determining archaeological potential provides a preliminary indication that significant sites might be found within the subject property, 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 *Ontario Heritage Act* 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.

Several factors can be used to assess the potential for recovery of Euro-Canadian archaeological resources on a property. The subject property is comprised largely of well-drained land that is suitable for human habitation and agriculture. 1875 historical atlas mapping shows 13 historic farmsteads within the subject property (Page & Smith.; 1875; Figure 4). The subject property also fronts four concession roads that are early historical transportation routes, Airport Road East, Miles Road, White Church Road East, and Upper James Street. There are two sites with a Euro-Canadian component located within the subject property.

Several factors can be used to assess the potential for recovery of Indigenous archaeological resources on a property. The subject property is largely comprised of well-drained land that is suitable for human habitation. Water sources are present within the subject property including ponds and seasonal tributaries of Welland River and Twenty Mile Creek. There are 13 sites with an Indigenous component located within the subject property.

Most of the subject property is located in an area of archaeological potential according to the City of Hamilton’s Archaeological Master Plan.

Given the above, background archival research indicates that all previously undisturbed and previously unassessed areas portions of the subject property exhibit general archaeological potential for the discovery of both pre/post-contact Indigenous and Euro-Canadian archaeological resources therefore, a Stage 2 archaeological assessment is required.





## 2.0 FIELD METHODS

No fieldwork was conducted for this Stage 1 archaeological assessment as there was no optional visual property inspection completed for the project. However, the entirety of the property was assessed and documented through background research of the geography, topography, and current condition of the property. This research was sufficient to identify the presence or absence of features of archaeological potential, and to make appropriate recommendations regarding further fieldwork.



### 3.0 RECORD OF FINDS

The subject property measures 326.26 ha. There are 21 ponds located on the property. These waterbodies make up 2.90 ha and account for 1 percent (“%”) of the property.

#### 3.1 Areas of Low Archaeological Potential

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. There were no areas of steeply sloping topography identified within the project area.

10.55 ha of the subject property, 3%, has been previously disturbed by construction of residential, farm, and commercial structures, as well as laneways, and parking areas. Extensive and intensive landscaping and construction activities have removed archaeological potential from these areas.

As no visual property inspection has been completed for this Stage 1 assessment, the Stage 2 assessment must confirm, document, and map all areas of low to no archaeological potential identified during this Stage 1 archaeological assessment.

#### 3.2 Previously Assessed Areas

18.28 ha of the subject property, 6%, has been previously subject to Stage 2 archaeological assessments (Stantec, 2015, 2016, 2022, TMHC, 2015, 2016; see Figure 8 of this report). The reports documenting this fieldwork have been accepted by MCM into their *Public Register of Archaeological Reports*. As such, no additional Stage 2 assessment is required for the lands. However, 13 locations containing archaeological resources were identified within these previously assessed areas. Four sites still retain CHVI and require further fieldwork, and these areas cannot be considered free of archaeological concern until the sites have been fully documented.

#### 3.3 Areas of Archaeological Potential

294.53 ha, 90%, of the subject property retains archaeological potential as there is no evidence for previous ground disturbance that would have damaged or removed archaeological resources from the subject property.

213.55 ha, 65%, of the subject property is agricultural field. As the fields are ploughable land, the Stage 2 assessment of the fields should be completed by pedestrian survey at 5 m intervals.

80.98 ha, 25%, of the subject property is manicured lawn, scrubland, tree rows, or forest. These areas meet the requirements of Section 2.1.2 1e of the *Standards and Guidelines for Consultant Archaeologists*, that ploughing or cultivation is not viable. Because these portions of the property cannot be ploughed, the Stage 2 assessment of these areas should be completed by test pit survey at 5 m grid intervals.





### 3.4 Documentary Record

A detailed list of field records is presented in Table 5. 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 5: Inventory of Documentary and Material Records

PROJECT INFORMATION		
ACC project number	195-01-23	
Licensee	Matthew Muttart	
MCM PIF number	P1208-0301-2023	
DOCUMENT/MATERIAL	NUMBER	DESCRIPTION
project notes	2	pages (paper, with digital copies)
maps	1	aerial photograph of subject property



## 4.0 ANALYSIS AND CONCLUSIONS

Stage 1 background research indicates that the subject property has general archaeological potential for the following reasons:

- Thirteen farmsteads are illustrated within the subject property in 1875 historical mapping.
- The subject property is adjacent to four concession roads, Airport Road East, Miles Road, White Church Road East, and Upper James Street.
- The subject property is located within 300 m of the historic limits of the community of Mount Hope.
- There are water sources within the subject property including 21 ponds and 13 seasonal tributaries of the Welland River and Twenty Mile Creek.
- There are 187 registered sites located within 1 km of the subject property, including 13 registered sites located within the subject property.

18.28 ha, 6%, of the subject property has been previously subject to Stage 2 archaeological assessments for proposed pipeline assessments (Stantec, 2015, 2016, 2022, TMHC, 2015, 2016; see Figure 8 of this report). Thirteen locations containing archaeological resources were identified within the subject property during these assessments. Some of the sites documented during the Stage 1 & 2 assessments have undergone subsequent Stage 3 and 4 excavations. Of the 13 sites, nine sites have been sufficiently documented and have no further CHVI. Table 6 lists the development review status and fieldwork recommendations for the registered sites documented within the subject property.

Table 6: Status of Registered Archaeological Sites within the Subject Property

BORDEN	SITE TYPE	DEVELOPMENT REVIEW STATUS	RECOMMENDED FIELDWORK
AgGx-603	Indigenous scatter	No further CHVI	none
AgGx-606	Indigenous large scatter	Further CHVI	Stage 3 assessment
AgGx-618	Indigenous findspot	Further CHVI	Stage 3 assessment
AgGx-619	Indigenous findspot	No further CHVI	none
AgGx-620	Indigenous scatter	No further CHVI	none
AgGx-621	Indigenous scatter	No further CHVI	none
AgGx-623	Indigenous scatter	No further CHVI	none
AgGx-624	Indigenous scatter	No further CHVI	none
AgGx-625	Indigenous scatter	No further CHVI	none
AgGx-626	Indigenous findspot	No further CHVI	none
AgGx-627	Indigenous scatter	No further CHVI	none
AgGx-1029	Indigenous/Euro-Canadian	Further CHVI	Stage 4 mitigation for the southern portion of the site is required. (Note: the OASD indicates southern portion of the site is fully excavated but



Stage 1 Archaeological Assessment  
Whitechurch Secondary Plan  
Lots 9 to 11, Concession 4 & Lots 6 to 10, Concession 5,  
Township of Glanford, City of Hamilton, ON

BORDEN	SITE TYPE	DEVELOPMENT REVIEW STATUS	RECOMMENDED FIELDWORK
			reporting is not yet entered into Public Register MCM, 2023a, b). Stage 2 assessment plus additional stages as necessary are still required for the unassessed northern portion of the site.
AgGx-1030	Indigenous/Euro-Canadian	Further CHVI	Stage 4 mitigation for the southern portion of the site is required. Stage 2 assessment plus additional stages as necessary are still required for the unassessed northern portion of the site.

Four registered archaeological sites located within the subject property retain CHVI. AgGx-606 and AgGx-618 have been recommended for Stage 3 excavation (TMHC, 2017a). AgGx-1029 has been partially subject to Stage 4 mitigation through excavation by Stantec (MCM, 2023a), however, the site extended outside their subject property (Stantec, 2023a). According to the OASD, it appears Stage 4 mitigation has been completed on the southern portion of the site, however, the report documenting this fieldwork has not yet been entered into the *Public Register of Archaeological Reports* (MCM, 2023b). Therefore, recommendations presented in Stantec’s Stage 3 fieldwork report are the most current available for the site (Stantec, 2023a). The portion of the site outside Stantec’s assessed area requires Stage 2 assessment and further Stage 3 and/or 4 assessments as necessary. AgGx-1030 has been subject to partial Stage 3 assessment by Stantec and has been recommended for Stage 4 mitigation through excavation (Stantec, 2023b). The portion of the site that extended outside Stantec’s project area has been recommended for Stage 2 assessment followed by Stage 3 and/or Stage 4 assessments as necessary (Stantec, 2023b). Site-specific recommendations are presented in Section 5.0, below.

Nineteen sites have been registered within 300 m of the current subject property. Site AgGx-604 is located 35 m away but has no further CHVI. None of the remaining sites are close enough to impact strategies and recommendations for fieldwork within the current subject property.

Background research of the geography, topography, and current condition of the property determined that determined that 2.90 ha, 1%, of the subject property, is made up of waterbodies and watercourses. 10.55 ha, 3%, of the subject property has low to no archaeological potential because it has been previously intensively and extensively disturbed by major landscaping and construction activities involving grading below topsoil.

The balance of the subject property, 294.53 ha, 90%, does not display evidence for disturbance that would have destroyed or removed archaeological resources; therefore, further assessment of the subject property in the form of a Stage 2 archaeological assessment will be required prior to development.

213.55 ha, 65%, of the subject property is agricultural field that can be ploughed and therefore, Stage 2 archaeological assessment in these areas should be conducted by pedestrian survey at 5 m intervals. 80.98 ha, 25%, of the subject property is comprised of manicured lawn, treerows,



scrubland, or forest. As such it meets the requirements of Section 2.1.2 1e of the *Standards and Guidelines for Consultant Archaeologists*, that ploughing, or cultivation is not viable. Therefore, Stage 2 archaeological assessment in these areas should be conducted by test pit survey at 5 m intervals (Figure 9).



## 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 recommendations are provided for consideration by the Proponent and the MCM:

1. Aerial imagery and topographic mapping indicates that 10.55ha of the property exhibits low potential for the recovery of archaeological resources due to previous disturbance. The Stage 2 assessment should confirm the presence and extent of these areas of low archaeological potential, and they should be mapped and documented by photography.
2. Stage 2 assessment has been conducted on 18.28 ha of the subject property. As the reports documenting this fieldwork have been approved by MCM, these lands do not require any further Stage 2 survey.
3. There are 13 registered sites documented within the subject property. Nine of these sites, AgGx-603, AgGx-619, AgGx-620, AgGx-621, AgGx-623, AgGx-624, AgGx-625, AgGx-626, and AgGx-627 have no further CHVI and require no additional fieldwork. Four sites, AgGx-606, AgGx-618, AgGx-1029, and AgGx-1030 retain further CHVI. Recommended fieldwork for each site includes the following:
  - a. Site AgGx-606 is a large Indigenous scatter. Stage 3 assessment is required for the site prior to development (TMHC, 2017a). Given the extent of the site and density of artifacts, it is evident that the level of CHVI at this site will result in a recommendation to proceed to Stage 4 excavations. This site was found during test pit assessment and pedestrian survey; therefore, controlled surface artifact collection is required for the artifacts recovered from within the agricultural field. The agricultural field should be ploughed and weathered sufficiently for the surface artifact collection. Stage 3 fieldwork will involve the hand-excavation of 1 m by 1 m square units placed in a 10 m grid across the extent of the site. Grid unit excavation should be followed by excavation of additional test units, amounting to 40% of the grid unit total, focusing on areas of interest within the site extent (such as distinct areas of higher concentrations of artifacts or adjacent to high-yield units) as per Section 3.2.2 and Table 3.1 of the *Standards and Guidelines for Consultant Archaeologists*. If any features are encountered, they will be addressed as per Section 3.2.2 Standard 6 where their planview will be recorded, be covered in geotextiles and backfilled.
  - b. Site AgGx-618 is an Indigenous findspot. Stage 3 assessment is required for the site prior to development (TMHC, 2017a; P324-0098-2016). It is not yet evident that the level of CHVI at this site will result in a recommendation to proceed to Stage 4 excavations. This site was found during test pit assessment; therefore, no controlled surface artifact collection is required. Stage 3 fieldwork will involve



the hand-excavation of 1 m by 1 m square units placed in a 5 m grid across the extent of the site. Grid unit excavation should be followed by excavation of additional test units, amounting to 20% of the grid unit total, focusing on areas of interest within the site extent (such as distinct areas of higher concentrations of artifacts or adjacent to high-yield units) as per Section 3.2.2 and Table 3.1 of the *Standards and Guidelines for Consultant Archaeologists*. If any features are encountered, they will be addressed as per Section 3.2.2 Standard 6 where their planview will be recorded, be covered in geotextiles and backfilled.

- c. Site AgGx-1029 is a multi-component Indigenous and Euro-Canadian site that retains CHVI and requires Stage 4 mitigation. As per Stantec's (2023a; PIF P256-0692-2021), the Indigenous component at AgGx-1029, Stage 4 mitigation will include hand excavation of 1 m by 1 m square units by systematic levels around Stage 3 test units with greatest artifact density, i.e., test units with 10 or more artifacts. Units will be excavated into the first five centimetres of subsoil unless excavation uncovers a cultural feature. Soil will be screened through 6-mm aperture wire mesh to facilitate the recovery of any artifacts that may be present. Recovered artifacts will be recorded by provenience. The exposed subsoil surface will be cleaned by shovel or trowel and will be examined for cultural features. If subsurface cultural features are encountered, they will be recorded and excavated by hand in accordance with Section 4.2.2 and Section 4.2.4 of the MCM's 2011 *Standards and Guidelines for Consultant Archaeologists*. Further, soil samples will be obtained from subsurface cultural features in accordance with Section 4.4 of the MCM's 2011 *Standards and Guidelines for Consultant Archaeologists*. The Stage 4 unit excavation will extend, regardless of artifact yields, 2 m beyond any cultural feature uncovered, (Stantec, 2023b).

The Euro-Canadian component of AgGx-1029 does not retain CHVI.

The limits of AgGx-1029 may extend beyond the limits of Stantec's (2023a) project area. Stage 2 archaeological assessment, followed by additional fieldwork stages, as necessary, is required for portions of the site not yet assessed.

- d. Site AgGx-1030 is a multi-component Indigenous and Euro-Canadian site that retains CHVI and requires Stage 4 mitigation. As per Stantec's (2023b; PIF P256-0708-2022) recommendations, the Indigenous component at AgGx-1030, Stage 4 mitigation will include hand excavation of 1 m by 1 m square units by systematic levels around Stage 3 test units with greatest artifact density, i.e., test units with 10 or more artifacts. Units will be excavated into the first five centimetres of subsoil unless excavation uncovers a cultural feature. Soil will be screened through 6-mm aperture wire mesh to facilitate the recovery of any artifacts that may be present. Recovered artifacts will be recorded by provenience. The exposed subsoil surface will be cleaned by shovel or trowel and will be examined for cultural features. If subsurface cultural features are encountered, they will be recorded and excavated by hand in accordance with Section 4.2.2 and





Section 4.2.4 of the MCM's 2011 *Standards and Guidelines for Consultant Archaeologists*. Further, soil samples will be obtained from subsurface cultural features in accordance with Section 4.4 of the MCM's 2011 *Standards and Guidelines for Consultant Archaeologists*. The Stage 4 unit excavation will extend, regardless of artifact yields, 2 m beyond any cultural feature uncovered, (Stantec, 2023b).

For the Euro-Canadian component at AgGx-1030, Stage 4 archaeological mitigation should proceed by hand excavation followed by mechanical topsoil removal ("MTR"). Though no subsurface cultural features or middens were identified during the Stage 3 test unit excavation, based on the artifacts recovered, it has been determined that Stage 3 test units with Euro-Canadian artifact counts greater than 85 may represent the location of possible nearby midden areas. In accordance with Section 4.2.7 of the MCM's 2011 *Standards and Guidelines for Consultant Archaeologists*, the Stage 4 mitigation will consist of the hand excavation of 1 m by 1 m square units around suspected midden areas. It is recommended that the block excavation show a decrease in artifact count around the Stage 3 test units of greater than 85 Euro-Canadian artifacts. Unit excavation will be terminated where Euro-Canadian artifact yields drop to under 85 artifacts per unit. Soil will be screened through 6-mm aperture wire mesh. All artifacts will be recorded by provenience. The exposed subsoil surface will be cleaned by shovel or trowel and will be examined for cultural features. If subsurface cultural features are encountered, they will be recorded and excavated by hand in accordance with Section 4.2.2 and Section 4.2.7 of the MCM's 2011 *Standards and Guidelines for Consultant Archaeologists*. Following this, and in accordance with Section 4.2.7 and Section 4.3 of the MCM's 2011 *Standards and Guidelines for Consultant Archaeologists*, the Stage 4 mitigation of the Euro-Canadian component of AgGx-1030 will involve the MTR of the remainder of the site. The extent of mechanical topsoil removal will extend a minimum of 10 m beyond any uncovered cultural features. If any cultural features are encountered during mechanical topsoil removal, they will be recorded and excavated by hand in accordance with Section 4.2.2 and Section 4.2.7 of the MCM's 2011 *Standards and Guidelines for Consultant Archaeologists* (Stantec, 2023b).

The limits of AgGx-1030 may extend beyond the limits of Stantec's (2023b) project area. Stage 2 archaeological assessment, followed by additional fieldwork stages, as necessary, is required for portions of the site not yet assessed.

4. Stage 2 archaeological assessment in the form of a pedestrian survey should be conducted on the agricultural fields which account for 213.55 ha of the subject property. The land to be assessed must be recently ploughed and must be disked after ploughing if the soils are heavy clay. Direction should be provided to the contractor undertaking the ploughing that the ploughing should be deep enough to provide total topsoil exposure, but not deeper than previous ploughing. The ploughed lands must be weathered by one heavy rainfall or several light rains to improve the visibility of archaeological resources. At least



80% of the ground surface must be visible to conduct a pedestrian survey. If the fields to be assessed do not meet the above conditions, then the land may need to be reploughed prior to survey. The ploughed lands should be surveyed at 5 metre (“m”) intervals.

When archaeological resources are found, the survey intervals will be decreased to 1 m intervals over a minimum of 20 m radius around the archaeological find to determine if it is an isolated find or part of a larger scatter. The 1 m interval survey should continue until the full extent of the surface scatter has been identified. All formal artifact types and diagnostic categories are to be collected and enough artifacts should be left in-situ to relocate the site if it is necessary to conduct further assessment.

5. Stage 2 archaeological assessment in the form of a test pit survey should be conducted in all areas where ploughing is not possible or viable, including manicured lawn, treerows, scrubland, and forested areas, which account for 80.98 ha of the subject property. The test pits should be excavated by hand at 5 m intervals. Test pits should be at least 30 centimetres (“cm”) in diameter and should be dug into the first 5 cm of subsoil. Test pits should be conducted to within 1 m of any disturbances or until test pits show evidence of recent ground disturbance. Each pit should be examined for stratigraphy, cultural features, or evidence of fill. Soils should be screened through wire mesh with an aperture no greater than 6 mm to facilitate artifact recovery. All artifacts should be collected according to their associated test pit. All test pits should be backfilled unless otherwise instructed.

When artifacts are found, the survey grid should be continued to determine whether there are further positive test pits. This may produce sufficient archaeological resources to meet criteria for requiring a Stage 3 archaeological assessment. When insufficient archaeological resources are found through continued grid survey to meet criteria for Stage 3 assessment, survey coverage around the positive test pit should be continued, by means of eight additional test pits and one or more 1 m by 1 m square test unit placed above the positive test pit.



## 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.
- e. It is an offence to destroy or alter an archaeological site without approval from the Ministry of Citizenship and Multiculturalism. Archaeological sites recommended for further archaeological fieldwork or protection remain subject to Section 48(1) of the *Ontario Heritage Act* and may not be altered, or have artifacts removed from them, except by a person holding an archaeological license.

## 7.0 BIBLIOGRAPHY AND SOURCES

Adams, Nick

1994 *Field Manual for Avocational Archaeologists in Ontario*. Publication No.16,  
Ontario Archaeological Society Inc.

AMICK Consultants Limited (“AMICK”)

2019 *Stage 1-2 Archaeological Property Assessment, 3311 Homestead Drive, Part of Lot 6, Concession 5, (Geographic Township of Glanford, County of Wentworth), City of Hamilton*. Report on File, MCM, Toronto. PIF P038-0948-2018.

Archaeological Consultants Canada (“ACC”)

2023a *Stage 1 Archaeological Assessment, Proposed Development, 8113 Airport Road, Part of Lot 8, Concession 5, Geographic Township of Glanford, Wentworth County, now in the City of Hamilton, Ontario*. Report on file, MCM, Toronto. PIF P1208-0198-2023.

2023b *Stage 1 Archaeological Assessment, Proposed Development, 7505 Airport Road, Part of Lots 9 and 10, Concession 5, Geographic Township of Glanford, Wentworth County, now in the City of Hamilton, Ontario*. Report on file, MCM, Toronto. PIF P1208-0197-2023.

Archaeological Services Inc. (“ASI”)

2001 *Stage 1 & 2 Archaeological Assessment of the Proposed Southampton Estates, Mount Hope, Township of Glanbrook, City of Hamilton, Ontario*. Report on file, MCM, Toronto.

Borden, Charles E.

1952 A Uniform Site Designation Scheme for Canada. *Anthropology in British Columbia*, No. 3, 44-48.

Caston, Wayne

1997 Evolution in the Mapping of Southern Ontario and Wellington County. *Wellington County History*. 10:91-106.

Chapman, Lyman John and Donald F. Putnam

1984 The Physiography of Southern Ontario (Third Edition). *Ontario Geological Survey Special Volume 2*. Ontario Ministry of Natural Resources, Toronto.

Coyne, James, C. O. Ermatinger, K. W. McKay

1895 *Historical Sketches of the County of Elgin*. Elgin Historical and Scientific Institute, St. Thomas.



D.R. Poulton & Associates (“DPA”)

2015 *The 2015 Stage 1 Archaeological Assessment of the Proposed Enbridge Pipelines Inc. Line 10, Westover Segment Replacement Project, City of Hamilton, Ontario.* Report on file, MCM, Toronto. PIF P316-0306-2015.

Detritus Consulting Ltd. (“DCL”)

2018a *Archaeological Assessment (Stages 1-2) 3253, 3263, 3269, 3287, 3307, 3311, 3313 Homestead Drive, and 8533 Airport Road West, Mount Hope Part of Lot 6, Concession 5, Geographic Township of Glanford, Historical County of Wentworth, now in the City of Hamilton, Ontario.* Report on file, MCM, Toronto. PIF P017-0625-2017.

2018b *Stage 3 Archaeological Assessment AgGx-965 3311 Homestead Drive, Part of Lot 6, Concession 5, Geographic Township of Glanford, Historical County of Wentworth, City of Hamilton, Ontario.* Report on file, MCM, Toronto. PIF P389-0335-2018.

2019 *Stage 1-2 Archaeological Assessment, 3311 Homestead Drive, Part of Lot 6, Concession 5, Geographic Township of Glanford, County of Wentworth, now in the City of Hamilton, Ontario.* Report on file, MCM, Toronto. PIF P017-0648-2018.

ESRI

2023 *ArcGIS Map Viewer.*  
<https://www.arcgis.com/apps/mapviewer/index.html>  
[Accessed December 4, 2023]

Energy, Mines and Resources Canada

1988 *Map 30-M/13, Bolton.* 1:50,000 scale National Topographic System map.

Glanbrook Heritage Society

2007 *Mount Hope.*  
<http://www.glanbrookheritage.ca/mounthope.htm>  
[Accessed February 14, 2023]

Hardy Gregory

1859 *Map of the County of Wentworth, Canada West.* Hardy Gregory, Publisher.

Local History and Archives

2023 *Chronology of Cities, Towns and Townships in Hamilton,*  
<https://lha.hpl.ca/articles/chronology-cities-towns-and-townships-hamilton?page=0%2C1#:~:text=The%20township%20of%20Glanford%20was,to%20Wentworth%20County%20in%201854.>  
[Accessed July 24, 2023]

Mika, Nick and Helma Mika

1983 *Places in Ontario: Their Name Origins and History. Part II, N-Z.* Mika Publishing Company, Belleville.



Ministry of Citizenship and Multiculturalism (“MCM”)

- 2005 *The Heritage Act, R.S.O. 2005*. Queen's Printer, Toronto.
- 2011 *Standards and Guidelines for Consultant Archaeologists*. Toronto.
- 2023a Sites within a one km radius of the subject property. Provided from the *Ontario Archaeological Sites Database*.
- 2023b Archaeological assessments completed within the subject property or within 50 m of the subject property. Provided from the *Ontario Public Register of Archaeological Report*.

Ministry of Northern Development and Mines (“MNDM”)

- 2007 *Physiography of Southern Ontario*. Chapman, L.J. and D.F. Putnam, authors. GIS map data layer distributed by the Ontario Geological Survey as Miscellaneous Release – Data (MRD) 228. Queen’s Printer for Ontario.  
<http://www.mndm.gov.on.ca/en/mines-and-minerals/applications/ogsearch>  
[Accessed December 4, 2023]

Ministry of Natural Resources and Forestry (“MNR”) (“MNR”)

- 2023 *Topographic Map*, Land Information Ontario  
[https://www.lioapplications.lrc.gov.on.ca/MakeATopographicMap/index.html?viewer=Make\\_A\\_Topographic\\_Map.MATM&locale=en-CA](https://www.lioapplications.lrc.gov.on.ca/MakeATopographicMap/index.html?viewer=Make_A_Topographic_Map.MATM&locale=en-CA)  
[Accessed December 4, 2023]

New Directions Archaeology Ltd. (“NDA”)

- 2003 *Stage 2-3 Archaeological Assessment of the Proposed Southampton Estates, Town of Mount Hope, R. M. of Hamilton-Wentworth (25T-98002 & 25T-200301)*. Report on file, MCM, Toronto. PIF P018-008.

Ontario Ministry of Agriculture, Food and Rural Affairs (“OMAFRA”)

- 2012 *GIS Layers for Soils and Physiography in the Province of Ontario*.  
<http://sis.agr.gc.ca/cansis/publications/surveys/on/index.html>.  
[Accessed July 20, 2023]

Page & Smith

- 1875 *Illustrated Historical Atlas of the County of Wentworth, Ont.*. Toronto.

Presant, E. W., R. E. Wicklund and B. C. Matthews

- 1965 *The Soils of Wentworth County*. Report No. 32 of the Ontario Soil Survey. Research Branch, Canada Department of Agriculture, Ottawa, and the Ontario Department of Agriculture, Toronto.

Stantec Consulting Ltd. (“Stantec”)

- 2015 *Stage 1-2 Archaeological Assessment: Proposed Temporary Access and Workspaces in Glanford Township (CWP 1436S), Enbridge Line 10, Parts of Various Lots, Concession*



- 5, *Geographic Township of Glanford, former Wentworth County, now City of Hamilton, Ontario*. Report on file, MCM, Toronto. PIF P256-0309-2014.
- 2016 *Stage 1-2 Archaeological Assessment: Proposed Temporary Access and Workspaces in Glanford Township, Various Integrity Digs (CWP 1511S), Enbridge Line 11, Part of Lots 1, 2, 3, 7, 8, and 12, Concession 5, Geographic Township of Glanford, former Wentworth County, now City of Hamilton, Ontario*. Stantec. Report on file, MCM, Toronto. PIF P256-0326-2015.
- 2022 *Stage 1-2 Archaeological Assessment: White Church Road Pipeline Installation Project: Part of Lot 6, Concession 5, Geographic Township of Glanford, former County of Wentworth, now City of Hamilton, Ontario*. Report on file, MCM, Toronto. PIF P1060-0110-2021.
- 2023a *Stage 3 Archaeological Assessment: White Church Road Pipeline Installation, WCR-1 (AgGx-1029) Part of Lot 6, Concession 5, Geographic Township of Glanford, former County of Wentworth, now City of Hamilton, Ontario*. Report on file, MCM, Toronto. PIF P256-0692-2021.
- 2023b *Stage 3 Archaeological Assessment: White Church Road Pipeline Installation, WCR-2 (AgGx-1030) Part of Lot 6, Concession 5, Geographic Township of Glanford, former County of Wentworth, now City of Hamilton, Ontario*. Report on file, MCM, Toronto. PIF P256-0708-2022.

Timmins Martelle Heritage Consultants (“TMHC”)

- 2015 *Stage 2 Archaeological Assessment, Enbridge Pipelines Inc., Line 10 Westover Segment Replacement Project, Geotechnical Borehole Work Areas and Access Routes, City of Hamilton, Ontario*. Report in Register, MCM, Toronto. P1075-0017-2015.
- 2016 *Stage 2 Archaeological Assessment, Enbridge Pipelines Inc., Line 10 Westover Segment Replacement Project, 2015 Fieldwork, City of Hamilton, Ontario*. Report on file, MCM, Toronto. PIF P1075-0018-2016.
- 2017a *Stage 2 Archaeological Assessment Enbridge Pipelines Inc. Line 10 Westover Segment Replacement Project Spring, Summer and Early Fall 2016 Fieldwork City of Hamilton, Ontario*. Report on file, MCM, Toronto. PIF P324-0098-2016.
- 2017b *Stage 2 Archaeological Assessment, Enbridge Pipelines Inc., Line 10 Westover Segment Replacement Project, Hydro One Networks Inc. (HONI) Re-Route and Later Fall 2016 Fieldwork, City of Hamilton, Ontario*. Report on file, MCM, Toronto. PIF P1075-0018-2016.
- 2017c *Stage 2 Archaeological Assessment, Enbridge Pipelines Inc., Line 10 Westover Segment Replacement Project, Hydro One Networks Inc. (HONI) re-Route and Later Fall 2016 Fieldwork, City of Hamilton, Ontario*. Report on file, MCM, Toronto. PIFs P324-0201-2017, P324-0228-2017.
- 2017d *Stage 3 Archaeological Assessment Enbridge Pipelines Inc. Line 10 Westover Segment Replacement Pipeline Tract 110 Location 1 (AgGx-603) within Lot 7, Concession 5 Geographic Township of Glanford Former Wentworth County Now City of Hamilton, Ontario*. Report on file, MCM, Toronto. PIF P324-0139-2016.



- 2018a *Stage 4 Construction Monitoring, Enbridge Pipelines Inc. Line 10 Westover Segment Replacement Project, Tract 105 Location 1 (AgGx-596), within Lot 6, Concession 6 Geographic Township of Glanford, Former Wentworth County, Now City of Hamilton, Ontario.* Report on file, MCM, Toronto. PIF P324-0253-2017.
- 2018b *Stage 4 Construction Monitoring, Enbridge Pipelines Inc. Line 10 Westover Segment Replacement Project, Tract 99 Location 1 (AgGx-587), within Lot 5, Concession 6 Geographic Township of Glanford, Former Wentworth County, Now City of Hamilton, Ontario..* Report on file, MCM, Toronto. PIF P324-0257-2017.
- 2018c *Stage 4 Construction Monitoring, Enbridge Pipelines Inc. Line 10 Westover Segment Replacement Project, Tract 99 Location 2 (AgGx-588), within Lot 5, Concession 6 Geographic Township of Glanford, Former Wentworth County, Now City of Hamilton, Ontario.* Report on file, MCM, Toronto. PIF P324-0259-2017.

Urban Hamilton Official Plan

2023 *White Church Secondary Plan- Map B.5.5-1 – Land Use Plan.*

Wright James V.

1968 *Ontario Prehistory: an eleven thousand-year archaeological outline.*  
Archaeological Survey of Canada, National Museums of Canada, Ottawa.



## 8.0 FIGURES



Figure 1: Location of the Subject Property on a 1:50,000 Scale Topographic Map

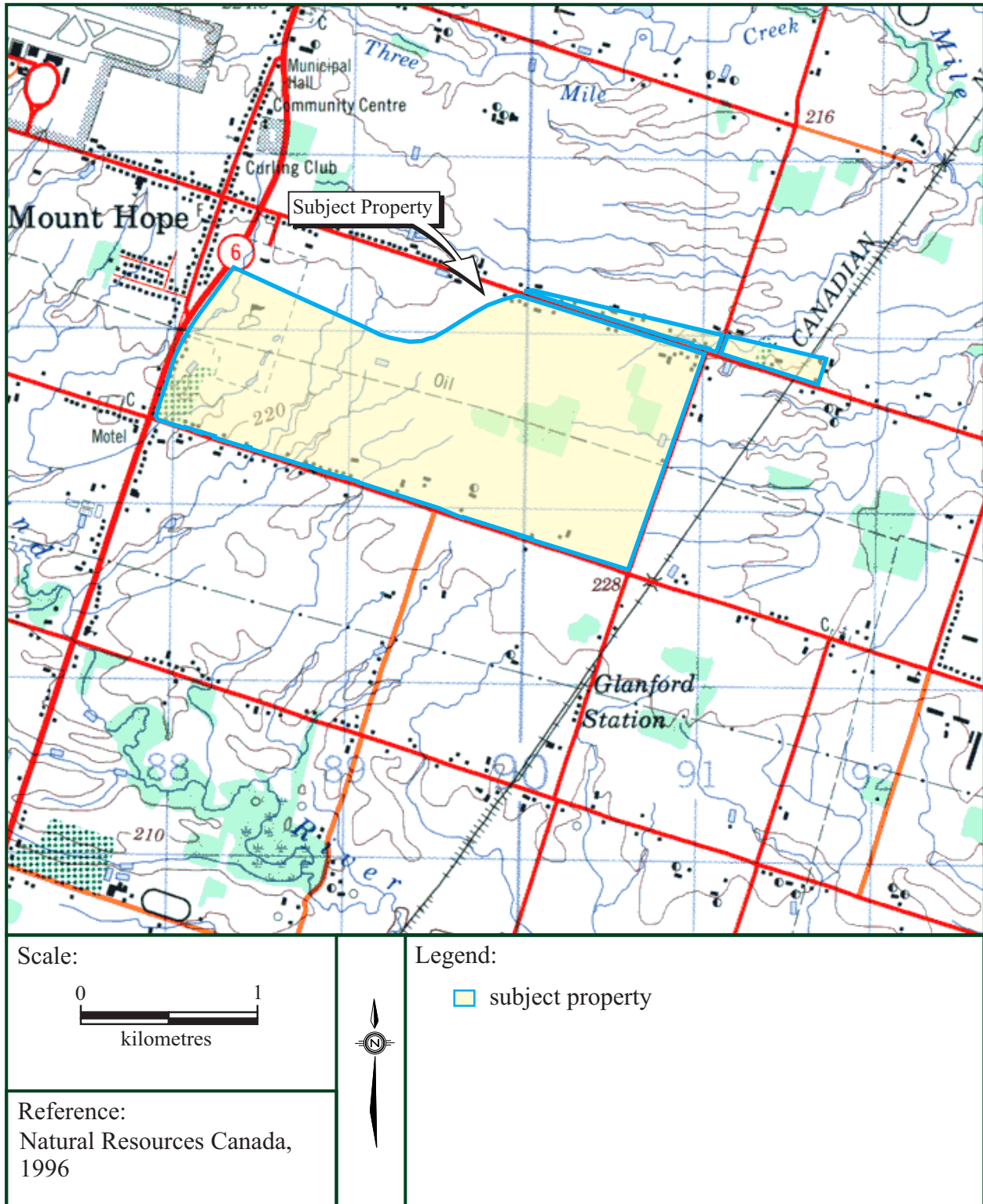


Figure 2: Land Use Plan

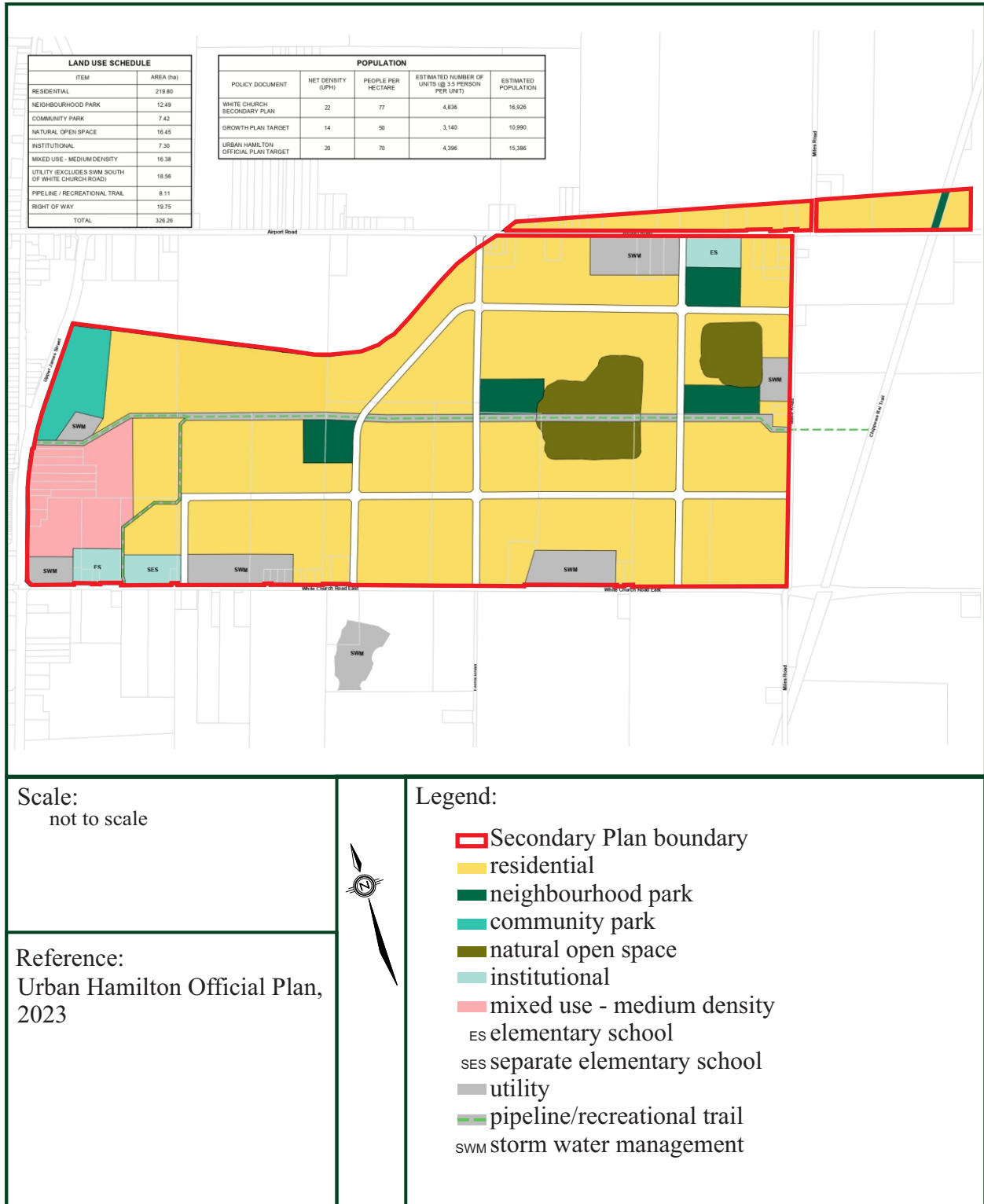




Figure 3: Location of the Subject Property on Hardy Gregory's 1859 Map of the County of Wentworth, Canada West

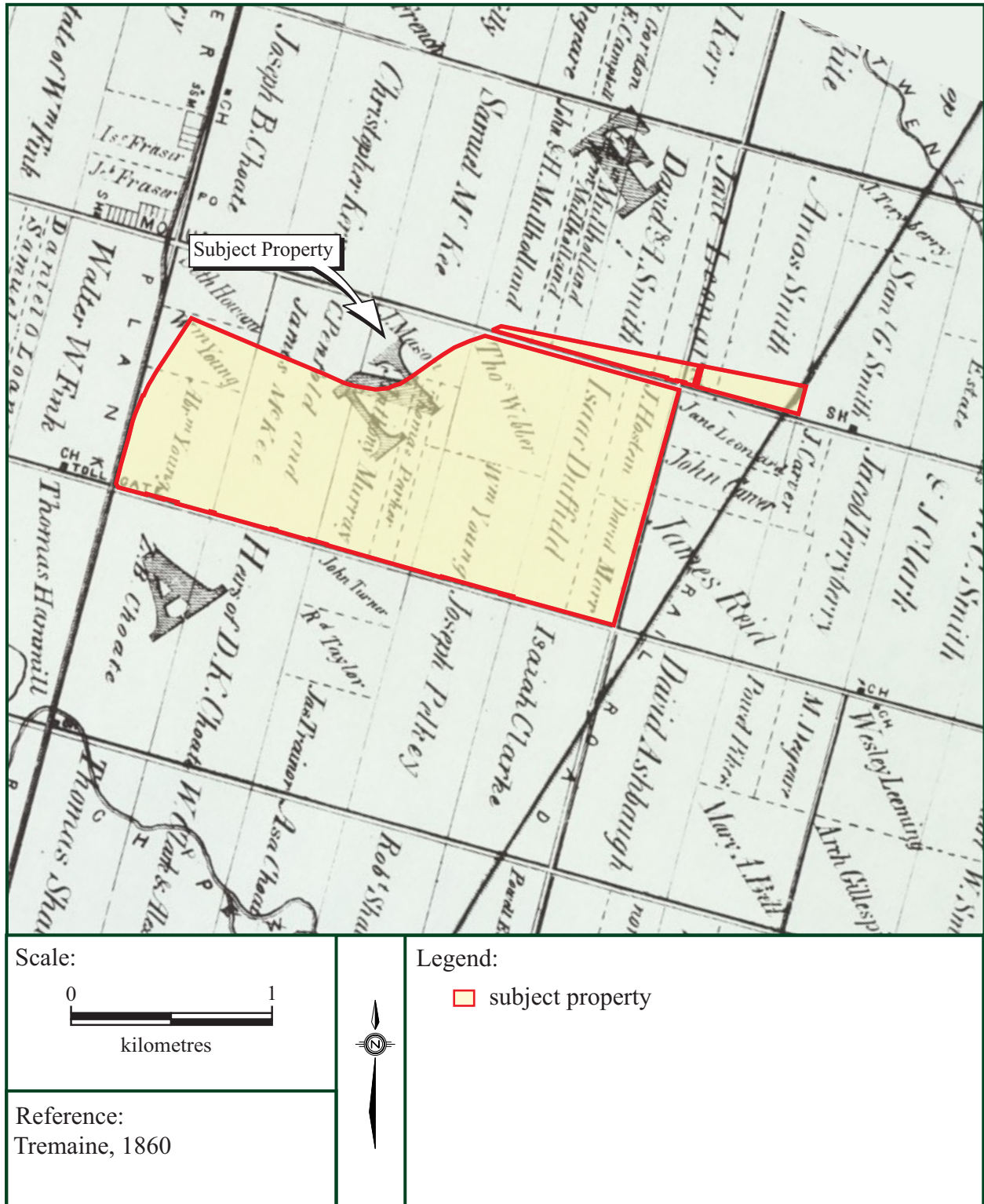




Figure 4: Location of the Subject Property on Page & Smith's 1875 Illustrated Historical Atlas Map of Glanworth Township, County of Wentworth

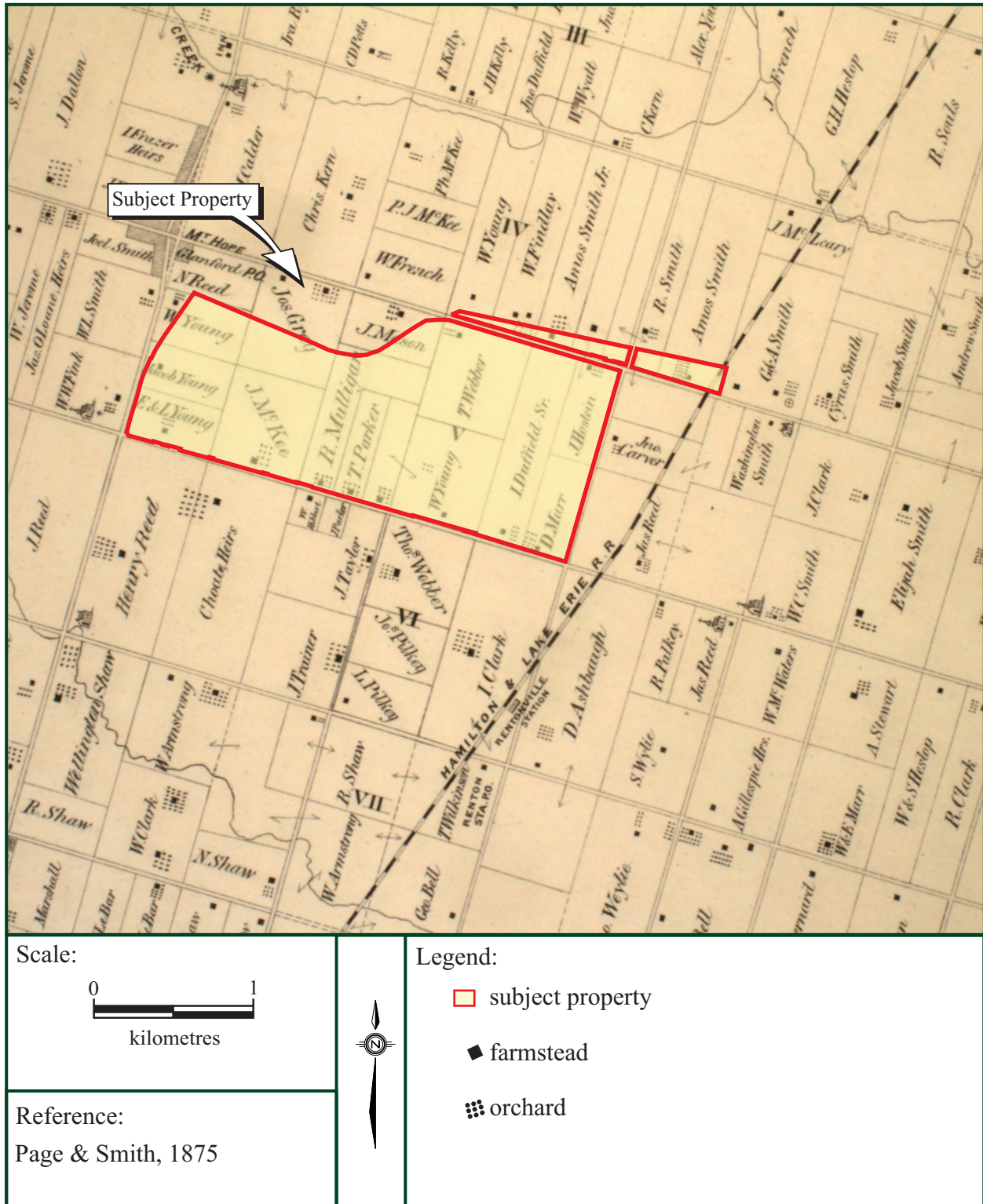




Figure 5: Location of the Subject Property on a Map of Wentworth County Soils

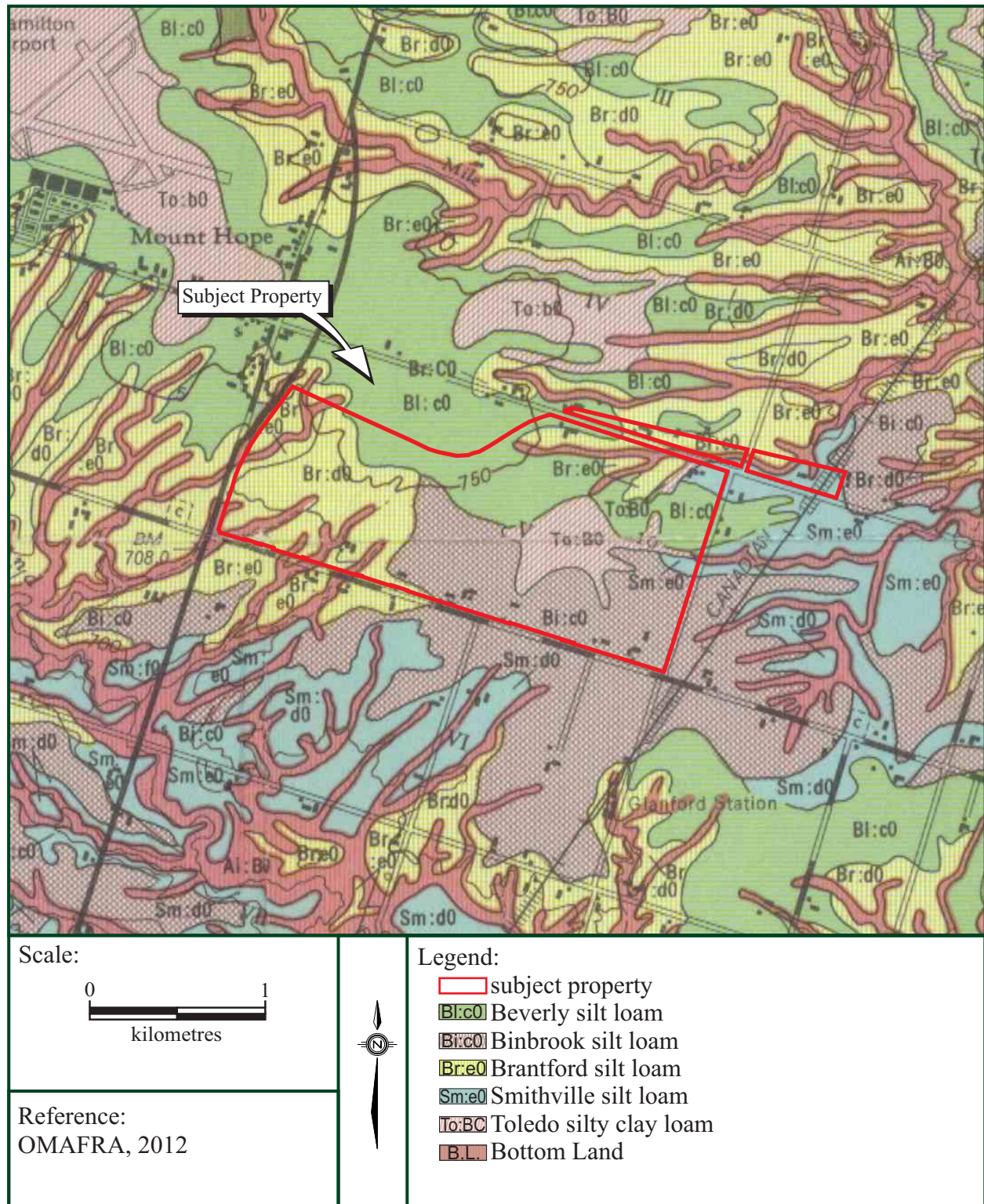




Figure 6: Water Sources within the Subject Property

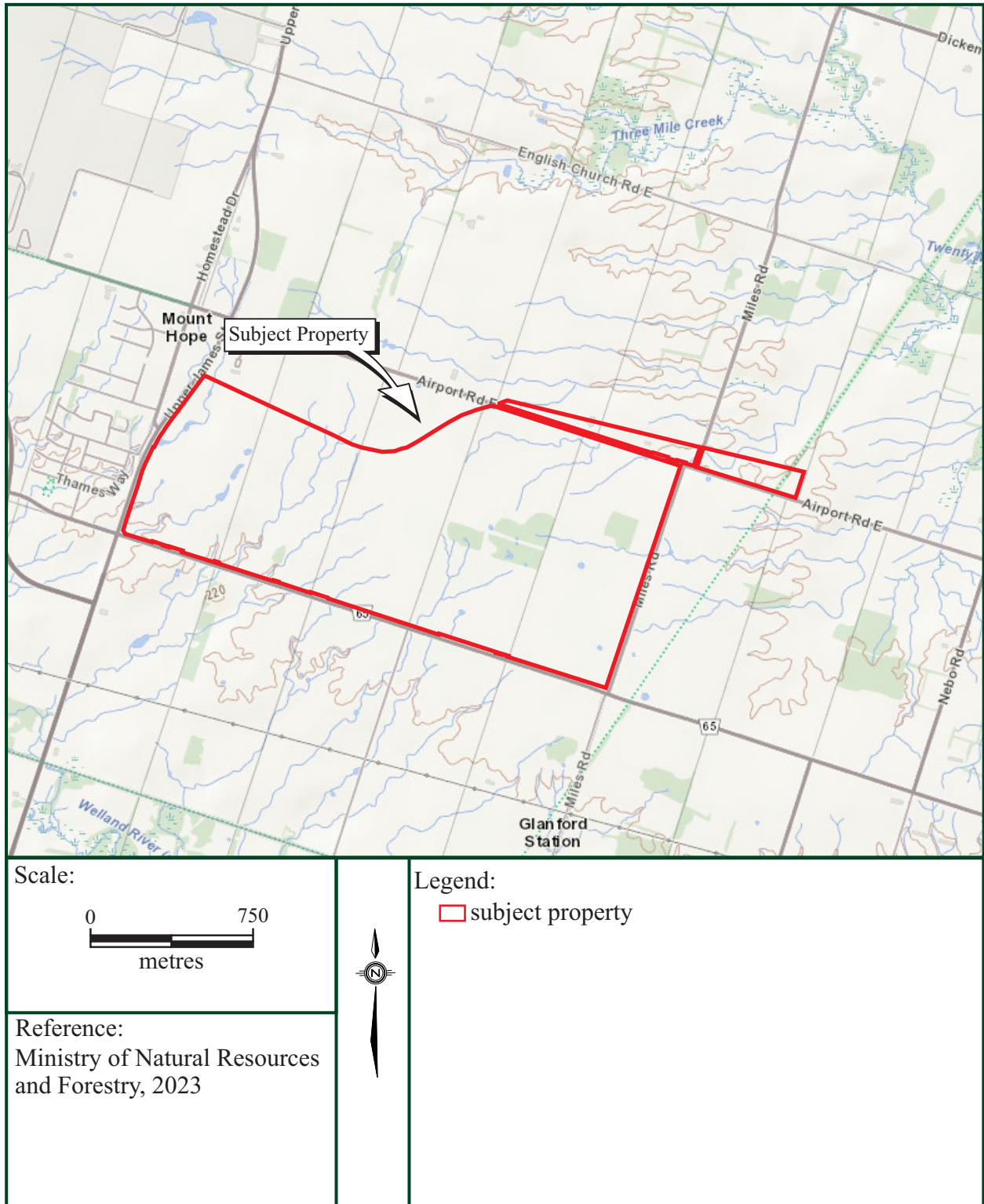


Figure 7: Current Land Use of the Subject Property

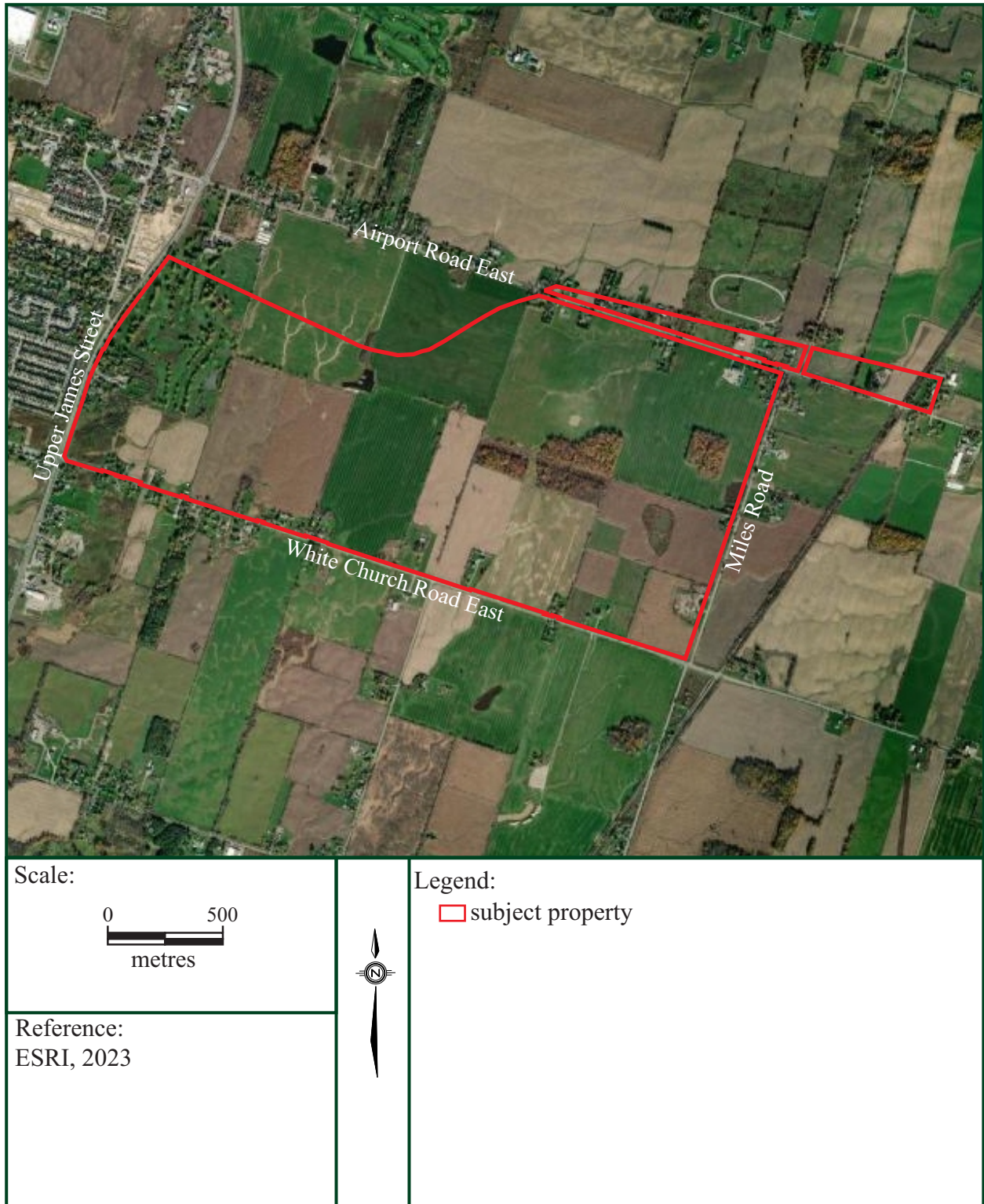
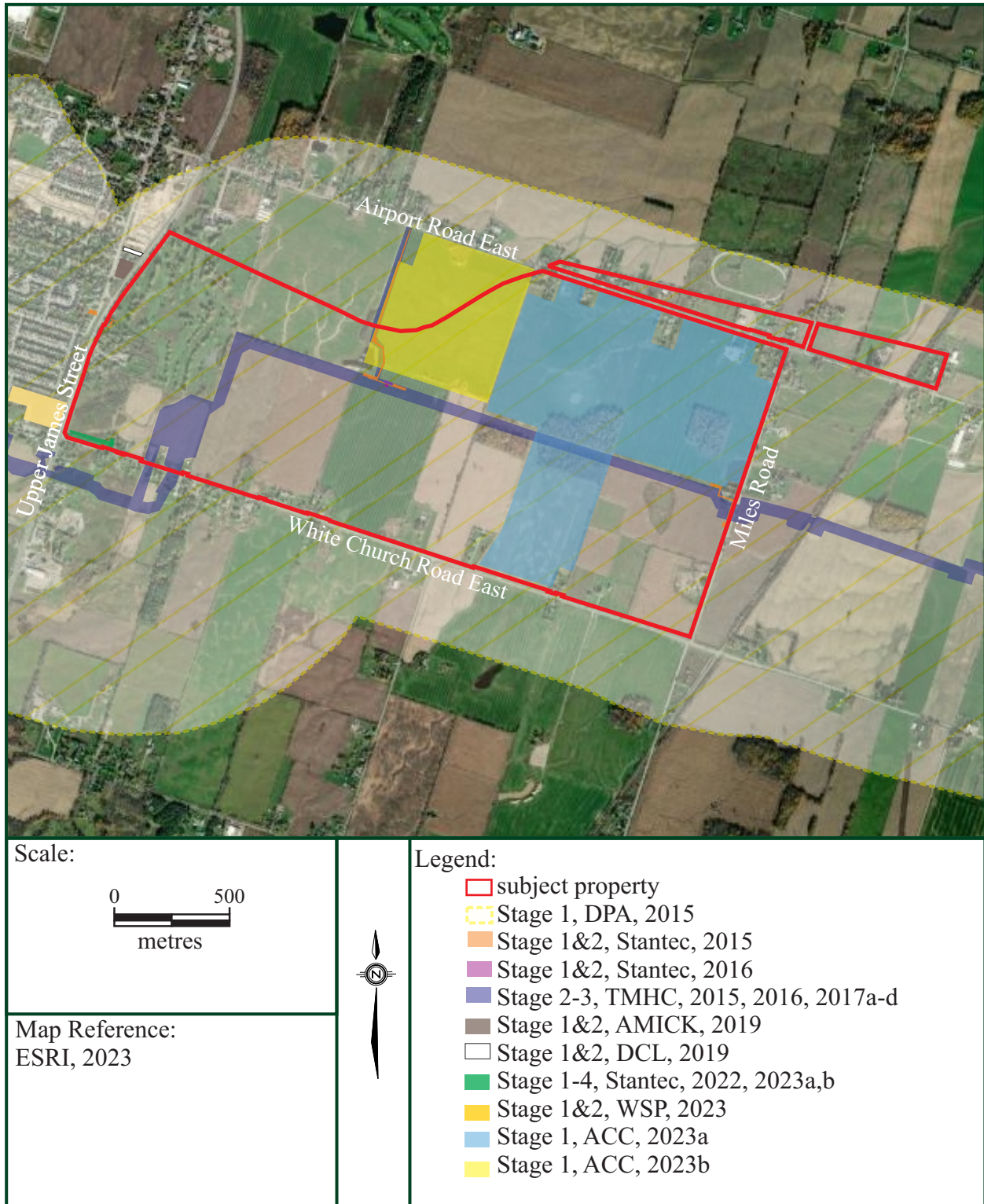
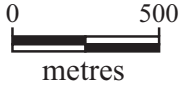




Figure 8: Previous Archaeological Assessments Conducted Within 50 m of the Subject Property



Scale:  
  
 0 500  
 metres

Map Reference:  
 ESRI, 2023

Legend:












-  subject property
-  Stage 1, DPA, 2015
-  Stage 1&2, Stantec, 2015
-  Stage 1&2, Stantec, 2016
-  Stage 2-3, TMHC, 2015, 2016, 2017a-d
-  Stage 1&2, AMICK, 2019
-  Stage 1&2, DCL, 2019
-  Stage 1-4, Stantec, 2022, 2023a,b
-  Stage 1&2, WSP, 2023
-  Stage 1, ACC, 2023a
-  Stage 1, ACC, 2023b



Figure 9: Location of the Subject Property on the City of Hamilton Archaeological Management Plan Map of Areas of Archaeological Potential

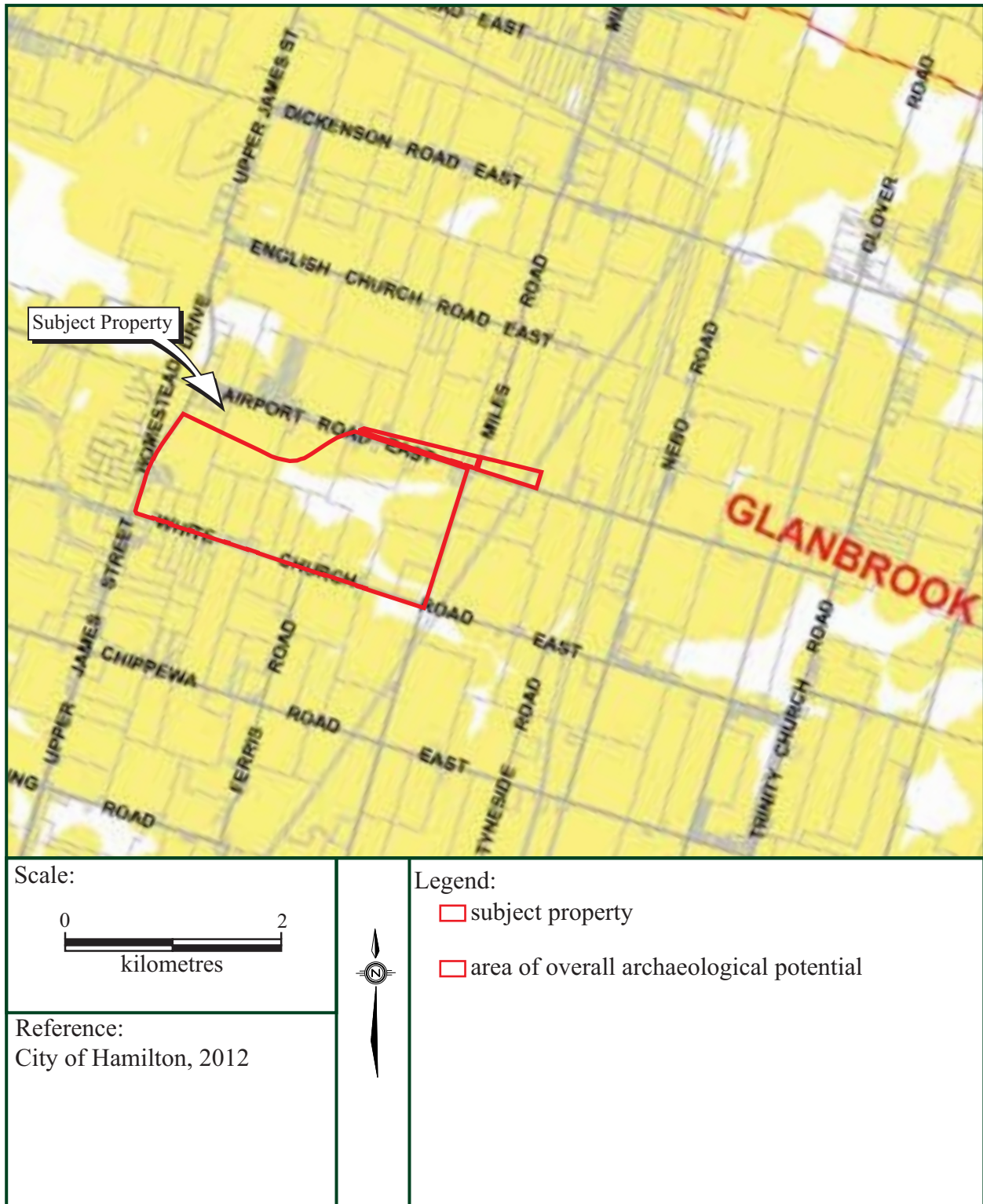
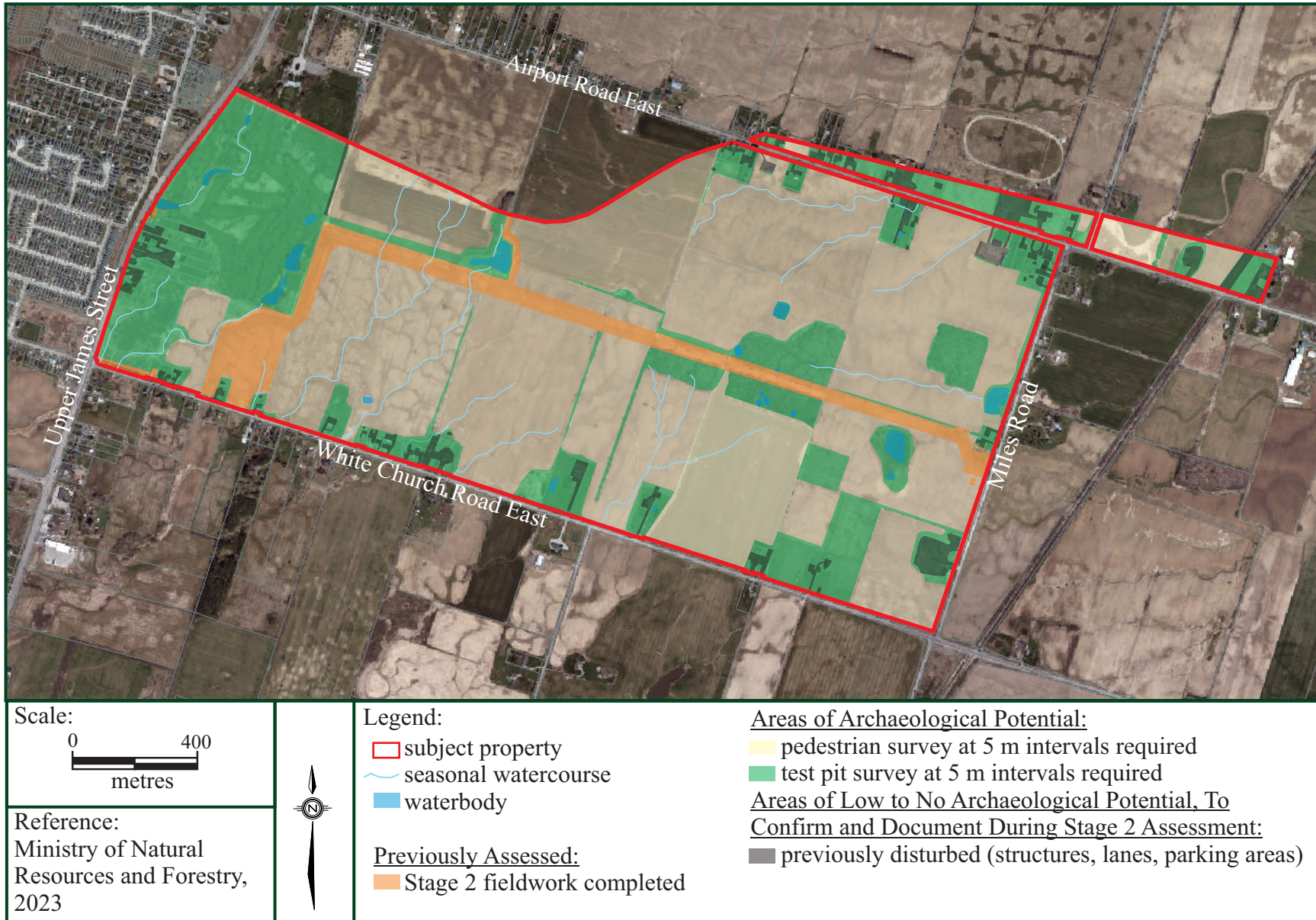




Figure 10: Results and Recommendations of the Stage 1 Archaeological Assessment of the Subject Property





Supplementary Figure: Aerial Imagery Showing the Location of Registered Archaeological Sites within the Subject Property

