

ORIGINAL: 31 OCTOBER 2024

STAGE 1-2 ARCHAEOLOGICAL ASSESSMENT

Property Located at 1017-1029 Brebeuf Road, Lot 100, Concession 1 East of Penetanguishene Road, (Geographical Township of Tay), Town of Midland, County of Simcoe (AMICK Corporate Project #2024-602/MCM File #P038-1452-2024)

SUBMITTED TO:

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MCM FILE NUMBER: P038-1452-2024

MCM SITE RECORD: BEGX-81

CORPORATE PROJECT NUMBER: 2024-602

31 OCTOBER 2024

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EXECUTIVE SUMMARY

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31 October 2024

This report describes the results of the 2024 Stage 1-2 Archaeological Property Assessment of Property Located at 1017-1029 Brebeuf Road, Lot 100, Concession 1 East of Penetanguishene Road, (Geographical Township of Tay), Town of Midland, County of Simcoe, conducted by AMICK Consultants Limited. This assessment was undertaken as a requirement under the and was conducted under Professional Archaeologist License #P038 issued to Marilyn Cornies by the Minister of Citizenship and Multiculturalism (MCM) for the Province of Ontario. All work was conducted in conformity with Ontario Ministry of Tourism and Culture (MTC) Standards and Guidelines for Consultant Archaeologists (MTC 2011) and the Ontario Heritage Act (RSO 1990a).

The entirety of the study area is approximately 5.63 hectares (ha) in area and includes within it wooded area, grass lawn, two houses, a shed, two workshops, and two gravel driveways extending east off Brebeuf Road. Low-lying wet areas are present in the centre and northeast corner of the study area. The study area is bounded on the north by wooded area, on the east by wooded area, on the south by farmland and on the west by Brebeuf Road. AMICK Consultants Limited was engaged by the proponent to undertake a Stage 1-2 Archaeological Property Assessment of lands potentially affected by the proposed undertaking and was granted permission to carry out archaeological fieldwork. Following the criteria outlined by MCMS (2011) for determining archaeological potential, portions of the study area were determined as having archaeological potential for Pre-contact and Post-contact archaeological resources. Consequently, this report is being prepared in advance of the planning process for this property.

The entirety of the study area was subject to property inspection and photographic documentation concurrently with the Stage 2 Property Assessment which consisted of high intensity test pit methodology at a five-metre interval between individual test pits and test pit survey at a ten-metre interval to confirm disturbance on 01, 02 & 09 April 2024. All records, documentation, field notes, photographs, and artifacts (as applicable) related to the conduct and findings of these investigations are held at the Lakelands District corporate offices of AMICK Consultants Limited until such time that they can be transferred to an agency or institution approved by the MCM on behalf of the government and citizens of Ontario.

As a result of the property Assessment of the study area, one scatter of historic artifacts, the 24-602H1 (BeGx-81) Site, was identified. Based on the characteristics of these sites and the analysis of artifacts, the following recommendations are made:

- 1. The Cultural Heritage Value or Interest (CHVI) of the 24-602H1 (BeGx-81) Site has not been completely documented. There is potential for further CHVI for this location. The 24-602H1 (BeGx-81) Site requires Stage 3 Site-specific Assessment to gather further data to determine if Stage 4 Mitigation of Development Impacts will be required.
- 2. A Stage 3 Site-specific assessment of the 24-602H1 (BeGx-81) Site must be completed for this site in accordance with the Standards and Guidelines for Consultant Archaeologists (MTC 2011). The Stage 3 Site-specific assessment will

consist of the excavation of 1 by 1 metre square test units on a 5 by 5 metre square grid; the grid squares will be referred to by the intersection coordinates of their southwest corner. Each test unit will be excavated stratigraphically by hand into the first 5 centimetres of subsoil. Each unit will be examined for stratigraphy, cultural features, or evidence of fill, and all soil was screened through wire mesh of 6-millimetre width. All artifacts will be retained and recorded by the corresponding grid unit designation and will be held at the Lakelands District corporate offices of AMICK Consultants Limited until such time that they can be transferred to an agency or institution approved by the Ontario MCM (MCM) on behalf of the government and citizens of Ontario.

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- 3. The Stage 3 Site-specific Assessment of the 24-602H1 (BeGx-81) Site must include further archival research to establish the details of the occupation and land use history of the rural township lot of which the study area was a part.
- 4. A Controlled Surface Pickup (CSP) has been completed as part of the Stage 2 Property Assessment and are not required as part of the Stage 3 Site-specific Assessment of the 24-602H1 (BeGx-81) Site as these components of the Stage 3 requirements are already satisfied.

1.0 PROJECT CONTEXT

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1.1 DEVELOPMENT CONTEXT

This report describes the results of the 2024 Stage 1-2 Archaeological Property Assessment of Property Located at 1017-1029 Brebeuf Road, Lot 100, Concession 1 East of Penetanguishene Road, (Geographical Township of Tay), Town of Midland, County of Simcoe, conducted by AMICK Consultants Limited. This assessment was undertaken as a requirement under the and was conducted under Professional Archaeologist License #P038 issued to Marilyn Cornies by the Minister of Citizenship and Multiculturalism (MCM) for the Province of Ontario. All work was conducted in conformity with Ontario Ministry of Tourism and Culture (MTC) Standards and Guidelines for Consultant Archaeologists (MTC 2011) and the Ontario Heritage Act (RSO 1990a).

The entirety of the study area is approximately 5.63 hectares (ha) in area and includes within it wooded area, grass lawn, two houses, a shed, two workshops, and two gravel driveways extending east off Brebeuf Road. Low-lying wet areas are present in the centre and northeast corner of the study area. The study area is bounded on the north by wooded area, on the east by wooded area, on the south by farmland and on the west by Brebeuf Road. AMICK Consultants Limited was engaged by the proponent to undertake a Stage 1-2 Archaeological Property Assessment of lands potentially affected by the proposed undertaking and was granted permission to carry out archaeological fieldwork. Following the criteria outlined by MCMS (2011) for determining archaeological potential, portions of the study area were determined as having archaeological potential for Pre-contact and Post-contact archaeological resources. Consequently, this report is being prepared in advance of the planning process for this property.

The entirety of the study area was subject to property inspection and photographic documentation concurrently with the Stage 2 Property Assessment which consisted of high intensity test pit methodology at a five-metre interval between individual test pits and test pit survey at a ten-metre interval to confirm disturbance on 01, 02 & 09 April 2024. All records, documentation, field notes, photographs, and artifacts (as applicable) related to the conduct and findings of these investigations are held at the Lakelands District corporate offices of AMICK Consultants Limited until such time that they can be transferred to an agency or institution approved by the MCM on behalf of the government and citizens of Ontario.

The proposed development of the study area includes the removal of all existing structures, and the addition of a concrete mixing plan, two silos, aggregate storage bins, washrooms, a septic tank and septic bed, water tanks, a general tool storage trailer, a plant operations trailer, eleven typical parking spaces and one barrier free parking space, with associated services and landscape modifications. A preliminary plan of the proposed development has been submitted together with this report to MCMS for review and reproduced within this report as Map 4.

1.2 HISTORICAL CONTEXT

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1.2.1 PRE-CONTACT LAND-USE OUTLINE

Table 1 illustrates the chronological development of cultures within southern Ontario prior to the arrival of European cultures to the area at the beginning of the 17th century. This general cultural outline is based on archaeological data and represents a synthesis and summary of research over a long period of time. It is necessarily generalizing and is not necessarily representative of the point of view of all researchers or stakeholders. It is offered here as a rough guideline and as a very broad outline to illustrate the relationships of broad cultural groups and time periods.

TABLE 1 PRE-CONTACT CULTURAL CHRONOLOGY FOR SOUTHERN ONTARIO

| Years ago | Period | Southern Ontario |
|-----------|-------------------|---|
| 250 | Terminal Woodland | Ontario and St. Lawrence Iroquois Cultures |
| 1000 | Initial Woodland | Princess Point, Saugeen, Point Peninsula, and Meadowood |
| 2000 | | Cultures |
| 3000 | | |
| 4000 | Archaic | Laurentian Culture |
| 5000 | | |
| 6000 | | |
| 7000 | | |
| 8000 | Paleo | Plano and Clovis Cultures |
| 9000 | | |
| 10000 | | |
| 11000 | | |
| | | (Wright 1972) |

What follows is an outline of Aboriginal occupation in the area during the Pre-Contact Era from the earliest known period, about 9000 B.C. up to approximately 1650 AD.

1.2.1.1 PALEO PERIOD (APPROXIMATELY 9000-7500 B.C.)

North of Lake Ontario, evidence suggests that early occupation began around 9000 B.C. People probably began to move into this area as the glaciers retreated and glacial lake levels began to recede. The early occupation of the area probably occurred in conjunction with environmental conditions that would be comparable to modern Sub-Arctic conditions. Due to the great antiquity of these sites, and the relatively small populations likely involved, evidence of these early inhabitants is sparse and generally limited to tools produced from stone or to by-products of the manufacture of these implements.

1.2.1.2 ARCHAIC PERIOD (APPROXIMATELY 8000-1000 B.C.)

By about 8000 B.C. the gradual transition from a post glacial tundra-like environment to an essentially modern environment was largely complete. Prior to European clearance of the landscape for timber and cultivation, the area was characterized by forest. The Archaic Period is the longest and the most apparently stable of the cultural periods identified through

archaeology. The Archaic Period is divided into the Early, Middle and Late Sub-Periods, each represented by specific styles in projectile point manufacture. Many more sites of this period are found throughout Ontario, than of the Paleo Period. This is probably a reflection of two factors: the longer period of time reflected in these sites, and a greater population density. The greater population was likely the result of a more diversified subsistence strategy carried out in an environment offering a greater variety of abundant resources (Smith 2002:58-59).

Current interpretations suggest that the Archaic Period populations followed a seasonal cycle of resource exploitation. Although similar in concept to the practices speculated for the big game hunters of the Paleo Period, the Archaic populations utilized a much broader range of resources, particularly with respect to plants. It is suggested that in the spring and early summer, bands would gather at the mouths of rivers and at rapids to take advantage of fish spawning runs. Later in the summer and into the fall season, smaller groups would move to areas of wetlands to harvest nuts and wild rice. During the winter, they would break into yet smaller groups probably based on the nuclear family and perhaps some additional relatives to move into the interior for hunting. The result of such practices would be to create a distribution of sites across much of the landscape (Smith 2002: 59-60).

The material culture of this period is much more extensive than that of the Paleo First Nations. Stylistic changes between Sub-Periods and cultural groups are apparent, although the overall quality in production of chipped lithic tools seems to decline. This period sees the introduction of ground stone technology in the form of celts (axes and adzes), manos and metates for grinding nuts and fibres, and decorative items like gorgets, pendants, birdstones, and bannerstones. Bone tools are also evident from this time period. Their presence may be a result of better preservation from these more recent sites rather than a lack of such items in earlier occupations. In addition, copper and exotic chert types appear during the period and are indicative of extensive trading (Smith 2002: 58-59).

1.2.1.3 WOODLAND PERIOD (APPROXIMATELY 1000 B.C.-1650 A.D.)

The primary difference in archaeological assemblages that differentiates the beginning of the Woodland Period from the Archaic Period is the introduction of ceramics to Ontario populations. This division is probably not a reflection of any substantive cultural changes, as the earliest sites of this period seem to be in all other respects a continuation of the Archaic mode of life with ceramics added as a novel technology. The seasonally based system of resource exploitation and associated population mobility persists for at least 1500 years into the Woodland Period (Smith 2002: 61-62).

The Early Woodland Sub-Period dates from about 1000-400 B.C. Many of the artifacts from this time are similar to the late Archaic and suggest a direct cultural continuity between these two temporal divisions. The introduction of pottery represents and entirely new technology that was probably acquired through contact with more southerly populations from which it likely originates (Smith 2002:62).

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The Middle Woodland Sub-Period dates from about 400 B.C.-800 A.D. Within the region including the study area, a complex emerged at this time termed "Point Peninsula." Point Peninsula pottery reflects a greater sophistication in pottery manufacture compared with the earlier industry. The paste and temper of the new pottery is finer and new decorative techniques such as dentate and pseudo-scallop stamping appear. There is a noted Hopewellian influence in southern Ontario populations at this time. Hopewell influences from south of the Great Lakes include a widespread trade in exotic materials and the presence of distinct Hopewell style artifacts such as platform pipes, copper or silver panpipe covers and shark's teeth. The populations of the Middle Woodland participated in a trade network that extended well beyond the Great Lakes Region.

The Late Woodland Sub-Period dates from about 500-1650 A.D. The Late Woodland includes four separate phases: Princess Point, Early Ontario Iroquoian, Middle Ontario Iroquoian and Late Ontario Iroquoian.

The Princess Point phase dates to approximately 500-1000 A.D. Pottery of this phase is distinguished from earlier technology in that it is produced by the paddle method instead of coil and the decoration is characterized by the cord wrapped stick technique. Ceramic smoking pipes appear at this time in noticeable quantities. Princess Point sites cluster along major stream valleys and wetland areas. Maize cultivation is introduced by these people to Ontario. These people were not fully committed to horticulture and seemed to be experimenting with maize production. They generally adhere to the seasonal pattern of occupation practiced by earlier occupations, perhaps staying at certain locales repeatedly and for a larger portion of each year (Smith 2002: 65-66).

The Early Ontario Iroquoian stage dates to approximately 950-1050 A.D. This stage marks the beginning of a cultural development that led to the historically documented Ontario Iroquoian groups that were first contacted by Europeans during the early 1600s (Petun, Neutral, and Huron). At this stage formal semi-sedentary villages emerge. The Early stage of this cultural development is divided into two cultural groups in southern Ontario. The areas occupied by each being roughly divided by the Niagara Escarpment. To the west were located the Glen Meyer populations, and to the east were situated the Pickering people (Smith 2002: 67).

The Middle Ontario Iroquoian stage dates to approximately 1300-1400 A.D. This stage is divided into two sub-stages. The first is the Uren sub-stage lasting from approximately 1300-1350 A.D. The second of the two sub-stages is known as the Middleport sub-stage lasting from roughly 1350-1400 A.D. Villages tend to be larger throughout this stage than formerly (Smith 2002: 67).

The Late Ontario Iroquoian stage dates to approximately 1400-1650 A.D. During this time the cultural divisions identified by early European explorers are under development and the geographic distribution of these groups within southern Ontario begins to be defined.

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1.2.2 Post-Contact Land Use Outline

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In the seventeenth century Simcoe County was home to the Huron. With the arrival of French priests and Jesuits, missions were established near Georgian Bay. After the destruction of the missions by the Iroquois and the British, Algonquin speaking peoples occupied the area. After the war of 1812, the government began to invest in the military defences of Upper Canada, through the extension of Simcoe's Yonge Street from Lake Simcoe to Penetanguishene on Georgian Bay (Garbutt 2010).

The first arrival of Europeans within Tay Township was in 1615, the Jesuits named and established this area are the first Christian mission in Canada. The area was called Huronia and consisted of land from the present day Tiny Township through Flos, Tay, Medonte and to Orillia. After the Iroquois destroyed the Huron, the surviving First Nations and priests found safety on Christian Island. In 1778 George Cowan established Cowan's Trading post, located on the east side of Matchedash Bay. This area was developed and settled because Lieutenant-Governer John Graves Simcoe wanted to establish a safer transportation route for military supplies between the Great Lakes. It was finally decided that Penetanguishene would be the naval headquarters. (Tay Township 2015).

Map 2 is a facsimile segment from <u>Hogg's Map of the County of Simcoe</u> (Hogg 1871). Map 2 illustrates the location of the study area and environs as of 1871. The study area is shown to belong to T.C. Ross T; no structures are shown to be within the study area; however, a school house is shown to be adjacent to the north of the study area. This demonstrates that the original property of which the study area is a part was settled by the time that the atlas data was compiled. Accordingly, it has been determined that there is potential for archaeological deposits related to early Post-contact settlement within the study area. In addition, this map Mud Lake south east of the study area and a smaller lake is shown as north of the study area. A settlement road is depicted as directly adjacent to the study area to the west. This road is the current Brebeuf Road. Mud Lake is no longer present on most recent maps, instead being replace entirely by low-lying wet areas.

Map 3 is a facsimile segment of the Township of Tay map reproduced from the Simcoe Supplement in the Illustrated Historical Atlas of the Dominion of Canada (Walker & Miles 1877). Map 3 illustrates the location of the study area and environs as of 1877. The study area is shown to belong to Chas. Ross; one structure is shown to be within the study area. This demonstrates that the original property of which the study area is a part was settled by the time that the atlas data was compiled. Accordingly, it has been determined that there is potential for archaeological deposits related to early Post-contact settlement within the study area. In addition, this map Mud Lake and low-lying wet areas south east of the study area and a Semple Lake is shown as north of the study area. A settlement road is depicted as directly adjacent to the study area to the west. This road is the current Brebeuf Road. Mud Lake is no longer present on most recent maps, instead being replace entirely by low-lying wet areas.

A plan of the study area is included within this report as Map 4. Current conditions encountered during the Stage 1-2 Property Assessment are illustrated in Maps 5 & 6.

1.2.3 SUMMARY OF HISTORICAL CONTEXT

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The brief overview of readily available documentary evidence indicates that the study area is situated within an area that was close to historic transportation routes and in an area well populated during the nineteenth century and therefore has potential for sites relating to early Post-contact settlement in the region. However, it also appears that while the area was moving toward urban development by the fourth quarter of the 19th century, it was still predominantly rural in character and the likelihood of locating significant Post-contact archaeological deposits of cultural heritage value or interest (CHVI) on a very small parcel of the original township lot is not likely.

1.3 ARCHAEOLOGICAL CONTEXT

The study area is located near Georgian Bay and is bounded on the north by wooded area, on the east by wooded area, on the south by farmland and on the west by Brebeuf Road.

Two houses, a shed, two workshops, and two gravel driveways extending east off Brebeuf Road are present within the study area, which impact the western portion of the study area. The remainder of the study area contains wooded and lawn areas. Low-lying and wet areas are present in the centre and northeastern portions of the study area. The northwest portion of the study area contains a small area of steep slope.

1.3.1 Physiographic Region

The study area is situated within the Simcoe Uplands physiographic region. The Simcoe Uplands is described as a series of broad, rolling till plains separated by steep-sided, flat-floored valleys, indicating they were islands in Lake Algonquin. The till is composed of mainly Precambrian rock, the texture of which is a gritty loam that becomes sandier toward the north; more calcareous till occurs near Lake Simcoe and near Midland. Although the dominant soil in the uplands is a sandy loam, smaller areas near the sandy ridges of the Oro Moraine and the Hendrie forest feature extremely pervious soil areas, sometimes with dry depressions many feet in depth. The loose sandy texture of the surface soil is conducive to wind erosion when vegetation has been removed (Chapman and Putnam 1984: 182-183).

1.3.2 SURFACE WATER

The study area is located approximately 1 kilometre south of Little Lake, and approximately 1 kilometer north of low-lying wet areas associated with the previous Mud Lake. These lakes are shown on both Hogg's Map of the County of Simcoe (Hogg 1871) and the Simcoe Supplement in Illustrated Historical Atlas of the Dominion of Canada (Belden & Co. 1881) These lakes do not impact the potential for Post-Contact or Pre-Contact archaeological resources within the study area, as they area beyond 300 metres. A seasonal water course is shown on topographic imagery just south of the study area. Low-lying and wet areas are present in the central and northeastern portions of the study area.

1.3.3 LITHIC SOURCES

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The study area is located adjacent to the Gull River Formation which has outcrops of Huronia chert. The Gull River Formation is a member of the Simcoe Group and is Middle Ordovician in age. The Gull River Formation is mainly comprised of lithographic limestone with interbeds of shale that is between 500 and 600 feet thick (Hewitt 1972: 5-6). Huronia chert is a mottled or banded blueish gray chert with hints of brownish-gray or greyish-beige. Light to dark gray or gray to black speckling of the chert is common; it can contain siderite inclusions in addition to recrystalized quartz vugs. Huronia chert tends to be medium to fine grained in texture, its luster is dull to waxy, and its patination is white. The closest known outcrops of Huronia are located approximately 7.5 kilometers north of the study area.

1.3.4 REGISTERED ARCHAEOLOGICAL SITES

The Archaeological Sites Database administered by the MCMS indicates that there are five (5) previously documented sites within 1 kilometre of the study area. However, it must be noted that this assumes the accuracy of information compiled from numerous researchers using different methodologies over many years. AMICK Consultants Limited assumes no responsibility for the accuracy of site descriptions, interpretations such as cultural affiliation, or location information derived from the Archaeological Sites Database administered by MCMS. In addition, it must also be noted that a lack of formerly documented sites does not indicate that there are no sites present as the documentation of any archaeological site is contingent upon prior research having been conducted within the study area.

1.3.4.1 Pre-contact Registered Sites

A summary of registered and/or known archaeological sites within a 1-kilometre radius of the study area was gathered from the Archaeological Sites Database, administered by MCMS. As a result, it was determined that five (5) archaeological sites relating directly to Pre-contact habitation/activity had been formally registered within the immediate vicinity of the study area. However, the lack of formally documented archaeological sites does not mean that Pre-contact people did not use the area; it more likely reflects a lack of systematic archaeological research in the immediate vicinity. Even in cases where one or more assessments may have been conducted in close proximity to a proposed landscape alteration, an extensive area of physical archaeological assessment coverage is required throughout the region to produce a representative sample of all potentially available archaeological data in order to provide any meaningful evidence to construct a pattern of land use and settlement in the past. One (1) of these sites (BeGx-8) is a multi-component site listed as both Pre-contact and Post-contact sites. All previously registered Pre-contact sites are briefly described below in Table 2:

TABLE 2 PRE-CONTACT SITES WITHIN 1KM

| Borden # | Site Name | Time Period | Affinity | Site Type |
|----------|-----------|----------------|----------|-----------|
| BeGx-8 | Jones | Post-Contact, | | Village |
| | | Woodland, Late | | |

| BeGx-59 | Eckron | Woodland, Late | Iroquoian | |
|---------|-------------|----------------|--------------|-----------------|
| BeGx-40 | Little Lake | Woodland, Late | Huron-Wendat | Special Purpose |
| | BeGx-40 | | | |
| BeGx-39 | Silva | Woodland, Late | Aboriginal, | Othercamp/ |
| | | | Iroquoian | Campsite, |
| | | | _ | Cabin |
| BeGx-36 | George | Other | OtherHuron- | Otherhamlet |
| | Edwards | | Wendat | |

None of the above noted archaeological sites are situated within 300 metres of the study area. Therefore, they have no impact on determinations of archaeological potential for further archaeological resources related to Pre-contact activity and occupation with respect to the archaeological assessment of the proposed undertaking.

1.3.4.2 Post-contact Registered Sites

A summary of registered and/or known archaeological sites within a 1-kilometre radius of the study area was gathered from the Archaeological Sites Database, administered by MCMS. As a result, it was determined that one (1) archaeological site relating directly to Post-contact habitation/activity had been formally registered within the immediate vicinity of the study area. This is a multi-component sites listed as both Pre-contact and Post-contact sites. All previously registered Post-contact sites are briefly described below in Table 3:

TABLE 3 POST-CONTACT SITES WITHIN 1KM

| Borden # | Site Name | Time Period | Affinity | Site Type |
|----------|-----------|--------------|----------|-----------|
| BeGx-8 | Jones | Post-Contact | | Village |

This archaeological sites is not situated within 300 metres of the study area. Therefore, it has no impact on determinations of archaeological potential for further archaeological resources related to Post-contact activity and occupation with respect to the archaeological assessment of the proposed undertaking.

1.3.4.3 REGISTERED SITES OF UNKNOWN CULTURAL AFFILIATION

A summary of registered and/or known archaeological sites within a 1-kilometre radius of the study area was gathered from the Archaeological Sites Database, administered by MCMS. As a result, it was determined that one (1) archaeological site of unknown cultural affiliation have been formally registered within the immediate vicinity of the study area. This site is also listed as a Huron Wendat site. All previously registered sites of unknown cultural affiliation are briefly described below in Table 4:

TABLE 4 REGISTERED SITES OF UNKNOWN CULTURAL AFFILIATION WITHIN 1KM

| Borden # | Site Name | Time Period | Affinity | Site Type |
|----------|-----------|-------------|-------------|-------------|
| BeGx-36 | George | Other | OtherHuron- | Otherhamlet |
| | Edwards | | Wendat | |

This archaeological site is not situated within 300 metres of the study area. Therefore, it has no impact on determinations of archaeological potential for further archaeological resources related to human activity and occupation with respect to the archaeological assessment of the proposed undertaking.

1.3.5 Previous Archaeological Assessments

On the basis of information supplied by MCMS, no archaeological assessments have been conducted within 50 metres of the study area. AMICK Consultants Limited assumes no responsibility for the accuracy of previous assessments, interpretations such as cultural affiliation, or location information derived from the Archaeological Sites Database administered by MCMS. In addition, it must also be noted that the lack of formerly documented previous assessments does not indicate that no assessments have been conducted.

1.3.5.1 Previous Regional Archaeological Potential Modelling

The study area is situated within an area subject to an archaeological master plan or a similar regional overview study. The *County of Simcoe Archaeological Master Plan* was endorsed by County Council on 4 December 2019. The study involved the delineation of areas of archaeological potential within the County of Simcoe. A facsimile segment of the archaeological potential map produced as a part of that study has been reproduced within this report as Map 7 and illustrates the Study Area on this plan. This map indicates that the study area is in a zone of archaeological potential based on a composite screening criteria for First Nations, Métis, and Historical sites. However, Archaeological Management Plans and the conclusions therein are guidelines for municipal planners and are not a substitute for Stage 1 Background Assessment conducted by Licensed archaeologists. Table 5 (on the next page) describes the modelling criteria by which the Simcoe County regional archaeological potential was calculated.

TABLE 5 SUMMARY OF ARCHAEOLOGICAL SITE POTENTIAL MODELLING CRITERIA

| Environmental or Cultural Feature | Buffer Distance (metres) | Buffer Qualifier |
|--|--|---|
| Pre-contact Indigenous Site Potential | 6 | |
| rivers and streams | 250 | from top of bank for former; from centreline for latter; on well- or imperfectly drained soils only |
| lakes and ponds | 250 | on well or imperfectly drained soils only |
| Wetlands (including pre-settlement) | 250 | on well or imperfectly drained soils only |
| alluvial soils (former river courses) | 250 | on well or imperfectly drained soils only |
| registered archaeological sites | 100 | 200 m for villages; if not completely excavated |
| slope > 20 degrees | 0 | removed from potential zone |
| Historical Site Potential | | |
| THOUSING CHO T CLOTHICA | polygon as mapped | no buffer, override integrity |
| historical settlement centres | , , , , | no buffer, override integrity None |
| historical settlement centres domestic sites | mapped | |
| historical settlement centres domestic sites breweries and distilleries | mapped 100 | None |
| historical settlement centres domestic sites breweries and distilleries hotels/taverns historical schools and churches | mapped 100 100 | None None |
| historical settlement centres domestic sites breweries and distilleries hotels/taverns | mapped 100 100 100 | None None None |
| historical settlement centres domestic sites breweries and distilleries hotels/taverns historical schools and churches historic mills, forges, extraction industries | mapped 100 100 100 100 | None None None None |
| historical settlement centres domestic sites breweries and distilleries hotels/taverns historical schools and churches historic mills, forges, extraction industries early settlement roads | mapped 100 100 100 100 100 | None None None None |
| historical settlement centres domestic sites breweries and distilleries hotels/taverns historical schools and churches historic mills, forges, extraction | mapped 100 100 100 100 100 100 | None None None None None both sides |

1.3.6 HISTORIC PLAQUES

There are no relevant plaques associated with the study area, which would suggest an activity or occupation within, or near, the study area that may indicate potential for associated archaeological resources of significant CHVI.

1.3.7 SUMMARY OF ARCHAEOLOGICAL CONTEXT

Two houses, a shed, two workshops, and two gravel driveways extending east off Brebeuf Road are present within the study area, which impact the western portion of the study area. The remainder of the study area contains wooded and lawn areas. Low-lying and wet areas are present in the centre and northeastern portions of the study area. The northwest portion of the study area contains a small area of steep slope.

Current conditions within the study area indicate that some areas of the property may have no or low archaeological potential and do not require Stage 2 Property Assessment or should be excluded from Stage 2 Property Assessment. These areas would include the footprint of existing structures, areas under gravel, and low-lying and wet areas. A significant proportion of the study area does exhibit archaeological potential and therefore a Stage 2 Property Assessment is required.

Background research also indicates that the study area is situated in the Simcoe Uplands physiographic region, which is characterized by till that is composed of mainly Precambrian rock, the texture of which is a gritty loam that becomes sandier toward the north; more calcareous till occurs near Lake Simcoe and near Midland. In addition, the study area is located adjacent to the Gull River Formation which has outcrops of Huronia chert.

A total of five (5) previously registered archaeological sites have been documented within 1km of the study area. Of these, five (5) are Pre-contact, one (1) is Post-contact and one (1) is of unknown cultural affiliation. None of these sites are located within 300m of the study area and, therefore, do not demonstrate archaeological potential for further archaeological resources of Pre-contact or Post-contact activity and occupation with respect to the archaeological assessment of the current study area.

The study area is situated in area for which there is no archaeological master plan/the study area is situated within an area subject to the *County of Simcoe Archaeological Master Plan*. There are no relevant plaques associated with the study area.

The study area has potential for archaeological resources of Native origins based on proximity to previously registered archaeological sites of Pre-contact origins and proximity to a source of potable water. Background research also suggests potential for archaeological resources of Post-contact origins based on proximity to a historic roadway, and proximity to areas of documented historic settlement.

2.0 FIELD WORK METHODS AND WEATHER CONDITIONS

2.1 Introduction

A property inspection was carried out in compliance with <u>Standards and Guidelines for Consultant Archaeologists</u> (MTC 2011) to document the existing conditions of the study area to facilitate the Stage 2 Property Assessment. All areas of the study area were visually inspected and select features were photographed as a representative sample of each area defined within Maps 5 and 6. Observations made of conditions within the study area at the time of the inspection were used to inform the requirement for Stage 2 Property Assessment for portions of the study area as well as to aid in the determination of appropriate Stage 2 Property Assessment strategies. The locations from which photographs were taken and the directions toward which the camera was aimed for each photograph are illustrated in Maps 5 & 6 of this report.

The Stage 2 Assessment of the study area was carried out on 01, 02 & 09 April 2024 and consisted of high intensity test pit methodology at a five-metre interval between individual test pits and test pit survey at a ten-metre interval to confirm disturbance which was conducted in compliance with the <u>Standards and Guidelines for Consultant Archaeologists</u>, section 2.1.2: Test Pit Survey and 2.1.8: Property Survey to Confirm Previous Disturbance (MTC 2011). Weather conditions were appropriate for the necessary fieldwork required to complete the Stage 2 Property Assessment and to create the documentation appropriate to this study.

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2.2 TEST PIT SURVEY

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Approximately 4.38 ha of the study area was wooded, lawn that cannot be strip ploughed, or occupied by existing landscaping or infrastructure that would be damaged where ploughing or cultivation would not be viable and was subjected to test pit survey at 5m intervals per Section 2.1.2, Standard 1 (MTC 2011).

All test pits were excavated within 1m of all built structures, were at least 30cm in diameter and were excavated into the first 5cm of subsoil to examine stratigraphy, cultural features and evidence of fill. All soils were screen through mesh no greater than 6mm and all test pits were backfilled. All work was photo documented.

During the 5m test pit survey, ten (10) test pits produced a total of thirty-nine (39) Post-contact artifacts. However, this was not enough to determine if a Stage 3 Site-Specific Assessment would be necessary. Therefore, test pit excavation was continued on the survey grid, but no further archaeological resources were encountered. Consequently, intensification efforts started with 8 radial test pits at an interval of 2.5m around the positive test pit(s). A total of twenty-four (24) additional positive radial test pits were encountered which produced 171 Post-contact artifacts. At this point, it was clear this site would be recommended for Stage 3, therefore the 1m by 1m test unit was not required for intensification. All artifacts were collected according to their associated test pit.

2.3 CONFIRMATION OF DISTURBANCE

Approximately 0.36 ha of the study area was subject to test pit survey at 10m intervals to confirm disturbance. Areas of suspected disturbance within the study area consists of an area identified as probable disturbance from grading. AMICK Consultants Limited tested the suspected disturbed area at a 10-metre interval to confirm disturbance in a manner consistent with the objectives to ensure that the area is accurately delimited and properly identified. This procedure demonstrated that the entire disturbed portion of the study area consists of fill deposited within a deeply disturbed context. There is no archaeological potential within this area.

Approximately 78% of the study area consisted of wooded and lawn area that was test pit surveyed at an interval of 5 metres between individual test pits. Approximately 6.4% of the study area was test pit surveyed at an interval of 10 metres between individual test pits to confirm disturbance. Approximately 4% of the study area was not assessable due to the presence of existing structures and disturbed gravel driveway. Maps 5 & 6 of this report illustrate the Stage 2 Assessment methodology within the study area.

3.0 RECORD OF FINDS

3.1 Introduction

As a result of the Stage 1-2 Assessment of the study area, one (1) historic site, named 24-602H1 (BeGx-81), was encountered. The number and types of artifacts collected from the 24-602H1 (BeGx-81) site are listed below in Table 6 - 11. Descriptions of the artifact types

Stage 1-2 Archaeological Property Assessment (Original)

collected from the 24-602H1 (BeGx-81) can be found below in section 3.2 and appended to this report in Appendix A. Detailed description of the location of these sites can be found in the supplementary information package of this report filed under separate cover with the MCM.

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100.00%

3.2 24-602H1 (BEGX-81) SITE

The 24-602H1 (BeGx-81) Site consists of 210 artifacts covering an area approximately 20 metres from north to south and 32 metres from west to east. The 24-602H1 (BeGx-81) Site is a Post-Contact Euro-Canadian site. The number and types of artifacts collected from the 24-602H1 (BeGx-81) Site are listed below in Table 6. Descriptions of these artifact types can be found appended to this report in Appendix B.

DESCRIPTION FREQUENCY PERCENTAGE Ceramic 75 35.71% Faunal 5 2.38% 80 38.10% Glass Metal 48 22.86% Mortar 1 0.48% Plastic 1 0.48%

210

TABLE 6 24-602H1 (BEGX-81) SITE ARTIFACT COUNTS AND TYPES

The two most frequent artifact type collected from the 24-602H1 (BeGx-81) site are ceramic (36%) and glass (38%), followed by metal (23%). Other artifact types collected from this site include faunal (bone fragments and a tooth), a single mortar artifact, and a single plastic button. Table 7 below describes the different classes of ceramic artifacts collected from the 24-602H1 (BeGx-81) site.

TABLE 7 24-602H1 (BEGX-81) SITE CERAMIC ARTIFACT COUNTS AND CLASSES

| CLASS | FREQUENCY | PERCENTAGE |
|---------------------------|-----------|------------|
| Coarse Red Earthenware | 11 | 14.67% |
| Ironstone | 24 | 32.00% |
| Porcelain | 4 | 5.33% |
| Refined White Earthenware | 26 | 34.67% |
| Stoneware | 1 | 1.33% |
| Yellowware | 9 | 12.00% |
| Total | 75 | 100.00% |

Refined white earthenware and (34%) and ironstone (32%) are the most common class of ceramic collected from the 24-602H1 (BeGx-81) site. Other ceramic types collected include coarse red earthenware (15%), porcelain (5%), a single stoneware artifact (1%) and yellowware (12%). The ceramic artifacts are also further classified by type and attribute, which can be found below in Table 8 and Table 9, respectively.

Total

TABLE 8 24-602H1 (BEGX-81) SITE CERAMIC ARTIFACT COUNTS AND TYPE

| Түре | FREQUENCY | PERCENTAGE |
|--------------------------|-----------|------------|
| Banded | 1 | 1.33% |
| Grey Bodied | 1 | 1.33% |
| Maker's Mark | 1 | 1.33% |
| Moulded | 3 | 4.00% |
| Overglaze Decal | 1 | 1.33% |
| Overglaze Transfer Print | 2 | 2.67% |
| Painted | 1 | 1.33% |
| Spongeware | 2 | 2.67% |
| Transfer Print | 11 | 14.67% |
| Undecorated | 52 | 69.33% |
| Total | 75 | 100.00% |

TABLE 9 24-602H1 (BEGX-81) SITE CERAMIC ARTIFACT COUNTS AND ATTRIBUTE

| ATTRIBUTE | FREQUENCY | PERCENTAGE |
|---------------------------------|-----------|------------|
| Albany Slip | 1 | 1.33% |
| Tranfer Print; Black | 3 | 4.00% |
| Overglaze Transfer Print; Black | 2 | 2.67% |
| Spongeware; Blue | 1 | 1.33% |
| Transfer Print; Blue | 3 | 4.00% |
| Transfer Print; Brown | 1 | 1.33% |
| Banded; Brown | 1 | 1.33% |
| Clear Glaze | 42 | 56.00% |
| Cobalt Blue | 4 | 5.33% |
| Green | 1 | 1.33% |
| Green Foliage | 1 | 1.33% |
| Lead Glaze | 4 | 5.33% |
| Pink | 1 | 1.33% |
| Pink; "TAYLOR&C" "LAND" | 1 | 1.33% |
| Rockingham Glaze | 1 | 1.33% |
| Salt Glaze | 1 | 1.33% |
| Unglazed | 5 | 6.67% |
| Yellow Lead Glaze | 2 | 2.67% |
| Total | 75 | 100.00% |

The most frequent type of ceramic artifact collected from the 24-602H1 (BeGx-81) site is undecorated (69%), followed by transfer print (11%). Other types of ceramics collected include banded (1%), grey bodied (1%), maker's mark (1%), moulded (4%), overglaze decal (1%), overglaze transfer print (3%), painted (1%), and spongeware (3%).

The most common attribute of ceramic artifacts include clear glazed (56%) and unglazed (7%), followed by cobalt blue (5%), black transfer print (4%), blue transfer print (4%),

yellow lead glaze (3%), and black overglaze transfer print (3%). Below in Table 10 is a breakdown of the glasses of glass collected from the 24-602H1 (BeGx-81) Site.

TABLE 10 24-602H1 (BEGX-81) SITE GLASS ARTIFACT COUNTS AND CLASSES

| CLASS | FREQUENCY | PERCENTAGE |
|----------------------|-----------|------------|
| Commercial Container | 49 | 61.25% |
| Indeterminate | 3 | 3.75% |
| Rolled Sheet | 28 | 35.00% |
| Total | 80 | 100.00% |

The classes of glass collected from the 24-602H1 (BeGx-81) Site include commercial container (61%), which include bottle shards, rolled sheet (35%), which includes window pane glass, and indeterminate shards (4%). The forms of metal collected from the 24-602H1 (BeGx-81) site can be found below in Table 11.

TABLE 11 24-602H1 (BEGX-81) SITE METAL ARTIFACT COUNTS AND FORM

| FORM | FREQUENCY | PERCENTAGE |
|---------------|-----------|------------|
| Drill Bit | 1 | 2.08% |
| Indeterminate | 2 | 4.17% |
| Nail; Cut | 29 | 60.42% |
| Nail; Wire | 12 | 25.00% |
| Pin | 1 | 2.08% |
| Screw | 2 | 4.17% |
| Spike | 1 | 2.08% |
| Total | 48 | 100.00% |

The most common form of metal collected from the 24-603H1 (BeGx-81) site is cut nails (60%), and wire nails (25%). Other forms of metal collected include a drill bit (2%), a pin (2%), two screws (4%), a spike (2%) and two indeterminate pieces (4%).

The collection of artifacts from this assessment is packaged in a single banker's box and housed at the Exeter office of AMICK Consultants Limited until such time as an appropriate permanent location, as approved by MCM, is located and appropriate arrangements for the transfer of the collection and associated responsibilities for the material is made.

The documentation produced during the field investigation conducted in support of this report includes: one sketch map, one page of photo log, one page of field notes, and 63 digital photographs.

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4.0 Analysis and Conclusions

4.1 STAGE 1 ANALYSIS AND CONCLUSIONS

4.1.1 CHARACTERISTICS INDICATING ARCHAEOLOGICAL POTENTIAL

Section 1.3.1 of the <u>Standards and Guidelines for Consultant Archaeologists</u> specifies the property characteristics that indicate archaeological potential (MTC 2011). Factors that indicate archaeological potential are features of the local landscape and environment that may have attracted people to either occupy the land or to conduct activities within the study area. One or more of these characteristics found to apply to a study area would necessitate a Stage 2 Property Assessment to determine if archaeological resources are present. These characteristics include:

- 1) Within 300m of Previously Identified Archaeological Sites
- 2) Within 300m of Primary Water Sources (e.g., lakes, rivers, streams, and creeks)
- 3) Within 300m of Secondary Water Sources (e.g., intermittent streams and creeks, springs, marshes, and swamps)
- 4) Within 300 m of 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, and cobble beaches)
- 5) Within 300m of an Accessible or Inaccessible Shoreline (e.g., high bluffs, swamp, or marsh fields by the edge of a lake, sandbars stretching into marsh)
- 6) Elevated Topography (e.g., eskers, drumlins, large knolls, and plateaux)
- 7) Pockets of Well-drained Sandy Soil, especially near areas of heavy soil or rocky ground.
- 8) Distinctive Land Formations 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.
- 9) Resource Areas, including:
 - food or medicinal plants (e.g., migratory routes, spawning areas, and prairie)
 - scarce raw materials (e.g., quartz, copper, ochre or outcrops of chert)
 - resources of importance to early Post-contact industry (e.g., logging, prospecting, and mining)
- 10) Within 300m of Areas of Early Post-contact Settlement, including:

farmstead complexes)

military or pioneer settlement (e.g., pioneer homesteads, isolated cabins, and

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- early wharf or dock complexes, pioneer churches and early cemeteries
- 11) Within 100m of Early Historical Transportation Routes (e.g., trails, passes, roads, railways, portage routes)
- 12) Heritage Property A property listed on a municipal register or designated under the Ontario Heritage Act or is a federal, provincial, or municipal historic landmark or site.
- 13) Documented Historical or Archaeological Sites property that local histories or informants have identified with possible archaeological sites, historical events, activities, or occupations. These are properties which have not necessarily been formally recognized or for which there is additional evidence identifying possible archaeological resources associated with historic properties in addition to the rationale for formal recognition.

The study area is situated immediately adjacent to the north of a seasonal water course which is a secondary water source. The study area contains a historic farmstead identified on the historic atlas map of 1881. The study area is situated within 100m of an early settlement road that appears on the historic atlas maps of 1871 and 1881. This historic road corresponds to the road presently known as Brebeuf Road which is directly adjacent to the study area on its western edge.

4.1.2 CHARACTERISTICS INDICATING REMOVAL OF ARCHAEOLOGICAL POTENTIAL

Section 1.3.2 of the <u>Standards and Guidelines for Consultant Archaeologists</u> specifies the property characteristics which indicate no archaeological potential or for which archaeological potential has been removed (MTC 2011). These characteristics include:

- 1) Quarrying
- 2) Major Landscaping Involving Grading Below Topsoil
- 3) Building Footprints
- 4) Sewage and Infrastructure Development

The study area contains two houses, a shed, two workshops, and two gravel driveways.

4.1.3 SUMMARY OF ARCHAEOLOGICAL POTENTIAL

Table 12 below summarizes the evaluation criteria of the Ministry of Citizenship and Multiculturalism together with the results of the Stage 1 Background Study for the proposed undertaking. Based on the criteria, the property is deemed to have archaeological potential on

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the basis of proximity to water, proximity to historic settlement structures, and the location of early historic settlement roads adjacent to the study area.

TABLE 12 EVALUATION OF ARCHAEOLOGICAL POTENTIAL

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| FFA | TURE OF ARCHAEOLOGICAL POTENTIAL | YES | NO | N/A | COMMENT | |
|-----------------------------------|---|------|-----|------|-------------------------------|--|
| | TOTAL OF PRINCIPAL COLORIDATE TOTAL COLORIDATE | 1.23 | 110 | 11// | If Yes, potential | |
| 1 | Known archaeological sites within 300m | | N | | determined | |
| | PHYSICAL FEATURES | | | | | |
| 2 | Is there water on or near the property? | Υ | | | If Yes, what kind of water? | |
| | Primary water source within 300 m. (lakeshore, | | | | If Yes, potential | |
| 2a | river, large creek, etc.) | | N | | determined | |
| | Secondary water source within 300 m. (stream, | | | | If Yes, potential | |
| 2b | spring, marsh, swamp, etc.) | Υ | | | determined | |
| | Past water source within 300 m. (beach ridge, | | | | If Yes, potential | |
| 2c | river bed, relic creek, etc.) | | N | | determined | |
| | Accessible or Inaccessible shoreline within 300 m. | | | | If Yes, potential | |
| 2d | (high bluffs, marsh, swamp, sand bar, etc.) | | N | | determined | |
| | Elevated topography (knolls, drumlins, eskers, | | | | If Yes, and Yes for any of 4- | |
| 3 | plateaus, etc.) | | N | | 9, potential determined | |
| | | | | | If Yes and Yes for any of 3, | |
| 4 | Pockets of sandy soil in a clay or rocky area | | N | | 5-9, potential determined | |
| | | | | | If Yes and Yes for any of 3- | |
| | Distinctive land formations (mounds, caverns, | | | | 4, 6-9, potential | |
| 5 | waterfalls, peninsulas, etc.) | | N | | determined | |
| HISTORIC/PREHISTORIC USE FEATURES | | | | | | |
| | Associated with food or scarce resource harvest | | | | If Yes, and Yes for any of 3- | |
| | areas (traditional fishing locations, | | | | 5, 7-9, potential | |
| 6 | agricultural/berry extraction areas, etc.) | | N | | determined. | |
| | | | | | If Yes, and Yes for any of 3- | |
| | | | | | 6, 8-9, potential | |
| 7 | Early Post-contact settlement area within 300 m. | Υ | | | determined | |
| | Historic Transportation route within 100 m. | | | | If Yes, and Yes for any 3-7 | |
| 8 | (historic road, trail, portage, rail corridors, etc.) | Υ | | | or 9, potential determined | |
| | Contains property designated and/or listed under | | | | | |
| | the Ontario Heritage Act (municipal heritage | | | | If Yes and, Yes to any of 3- | |
| 9 | committee, municipal register, etc.) | | N | | 8, potential determined | |
| APP | LICATION-SPECIFIC INFORMATION | | | | | |
| | Local knowledge (local heritage organizations, | | | | If Yes, potential | |
| 10 | Pre-contact, etc.) | | N | | determined | |
| | Recent disturbance not including agricultural | | | | | |
| | cultivation (post-1960-confirmed extensive and | | | | If Yes, no potential or low | |
| | intensive including industrial sites, aggregate | | | | potential in affected part | |
| 11 | areas, etc.) | | N | | (s) of the study area. | |

If YES to any of 1, 2a-c, or 10 Archaeological Potential is confirmed

If **YES** to 2 or more of 3-9, Archaeological Potential is **confirmed**

If **YES** to 11 or No to 1-10 Low Archaeological Potential is **confirmed** for at least a portion of the study area.

4.2 STAGE 2 ANALYSIS AND CONCLUSIONS

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As a result of the Stage 2 Property Assessment, one (1) Post-Contact Euro-Canadian site, the 24-602H1 (BeGx-81) Site were encountered.

The 24-602H1 (BEGX-81X) Site is a Post-Contact Euro-Canadian that consists of 210 artifacts from 34 positive test pits covering an area approximately 20 metres from north to south and 32 metres from west to east. The artifact assemblage of the site mainly consists of ceramic, glass, and metal artifacts. The most prevalent ceramic artifact includes refined white earthenware and ironstone. The glass artifacts mainly consist of bottle and window glass, and the metal artifacts consist mainly of cut and wire nails. Other materials recovered were minimal, but includes faunal (including bones and a tooth), a single piece of mortar, and a single plastic artifact. The 24-602H (BeGx-81) Site assemblage indicates the site is likely a farmstead with a long occupation, primarily dating between the second quarter and second quarter of the twentieth century, with the most likely date range from 1840-1930.

The 23-602H1 (BeGx-81) Site contains more than twenty (20) artifacts that date before 1900. Consequently, the site retains CHVI and a Stage 3 Site-Specific Assessment is recommended.

5.0 RECOMMENDATIONS

5.1 STAGE 1-2 RECOMMENDATIONS

As a result of the property Assessment of the study area, one scatter of historic artifacts, the 24-602H1 (BeGx-81) Site, was identified. Based on the characteristics of these sites and the analysis of artifacts, the following recommendations are made:

- 1. The Cultural Heritage Value or Interest (CHVI) of the 24-602H1 (BeGx-81) Site has not been completely documented. There is potential for further CHVI for this location. The 24-602H1 (BeGx-81) Site requires Stage 3 Site-specific Assessment to gather further data to determine if Stage 4 Mitigation of Development Impacts will be required.
- 2. A Stage 3 Site-specific assessment of the 24-602H1 (BeGx-81) Site must be completed for this site in accordance with the Standards and Guidelines for Consultant Archaeologists (MTC 2011). The Stage 3 Site-specific assessment will consist of the excavation of 1 by 1 metre square test units on a 5 by 5 metre square grid; the grid squares will be referred to by the intersection coordinates of their southwest corner. Each test unit will be excavated stratigraphically by hand into the first 5 centimetres of subsoil. Each unit will be examined for stratigraphy, cultural features, or evidence of fill, and all soil was screened through wire mesh of 6-millimetre width. All artifacts will be retained and recorded by the corresponding grid unit designation and will be held at the Lakelands District corporate offices of AMICK Consultants Limited until such time that they can be transferred to an agency or institution approved by the Ontario MCM (MCM) on behalf of the government and citizens of Ontario.

- 3. The Stage 3 Site-specific Assessment of the 24-602H1 (BeGx-81) Site must include further archival research to establish the details of the occupation and land use history of the rural township lot of which the study area was a part.
- 4. A Controlled Surface Pickup (CSP) has been completed as part of the Stage 2 Property Assessment and are not required as part of the Stage 3 Site-specific Assessment of the 24-602H1 (BeGx-81) Site as these components of the Stage 3 requirements are already satisfied.

6.0 ADVICE ON COMPLIANCE WITH LEGISLATION

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While not part of the archaeological record, this report must include the following standard advisory statements for the benefit of the proponent and the approval authority in the land use planning and development process:

- a. This report is submitted to the Minister of Citizenship and Multiculturalism as a condition of licensing in accordance with Part VI of the Ontario Heritage Act, R.S.O. 1990, c. 0.18. The report is reviewed to ensure that it complies with the standards and guidelines 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 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 archaeologist to carry out archaeological fieldwork, in compliance with sec. 48 (1) of the Ontario Heritage Act.
- d. The Cemeteries Act, R.S.O. 1990, c. C.4 and the Funeral, Burial and Cremation Services Act, 2002, S.O. 2002, c.33 (when proclaimed in force) require that any person discovering human remains must notify the police or coroner and the Registrar of Cemeteries at the Ministry of Consumer Services.
- e. 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 licence.

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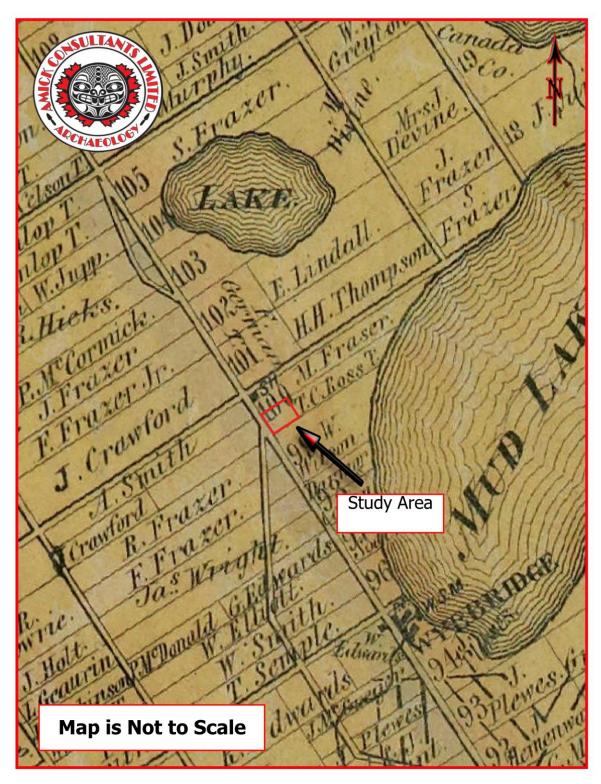
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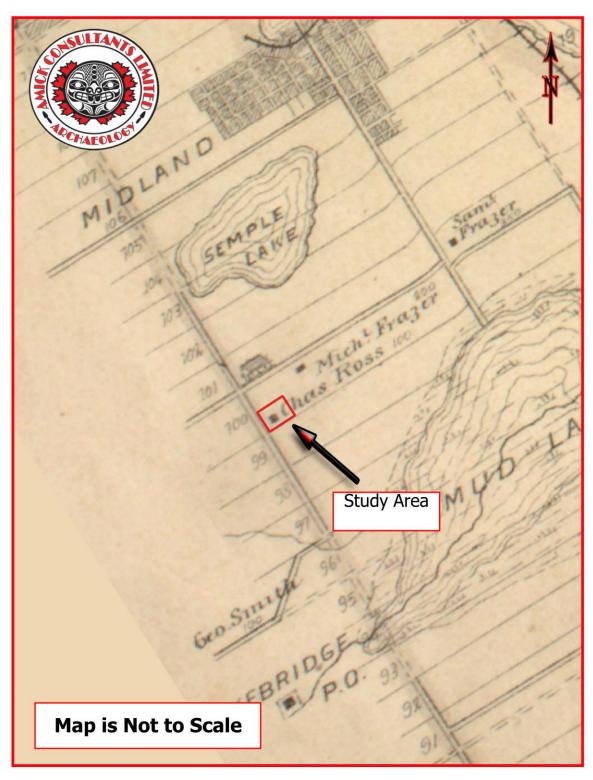
MAPS



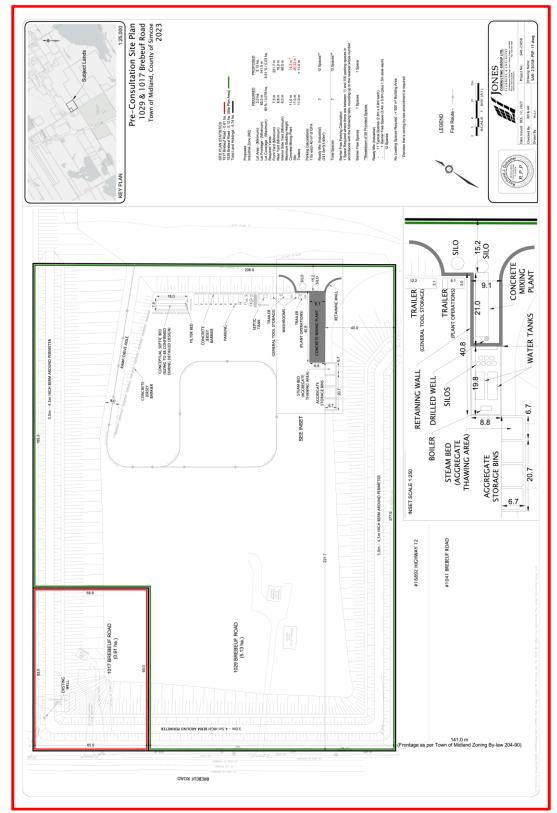
MAP 1 LOCATION OF THE STUDY AREA (ESRI 2019)



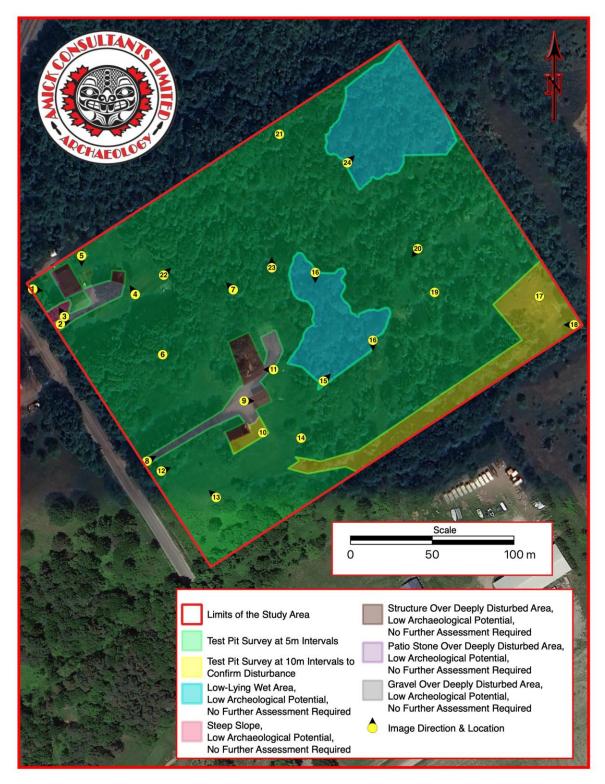
MAP 2 FACSIMILE SEGMENT OF HOGG'S MAP OF THE COUNTY OF SIMCOE (HOGG 1871)



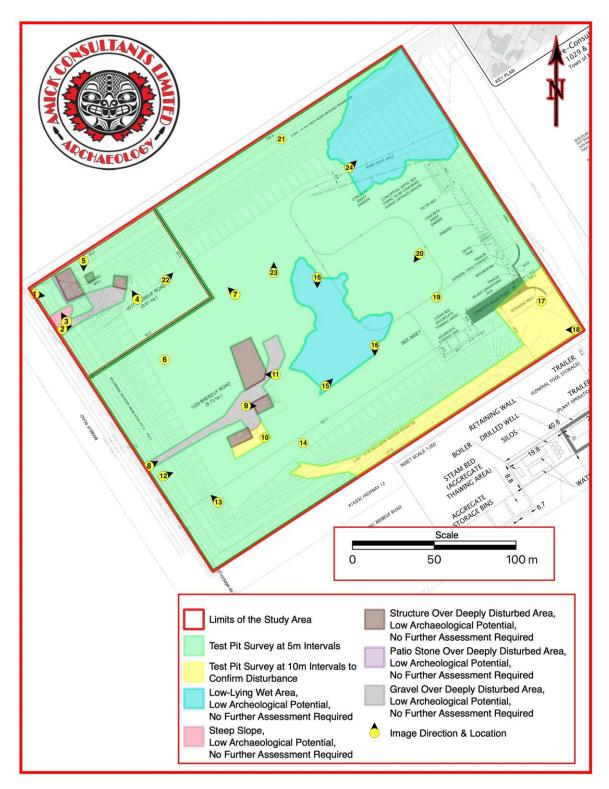
MAP 3 FACSIMILE SEGMENT OF THE HISTORIC ATLAS MAP OF THE TOWNSHIP OF TAY (BELDEN & Co. 1881)



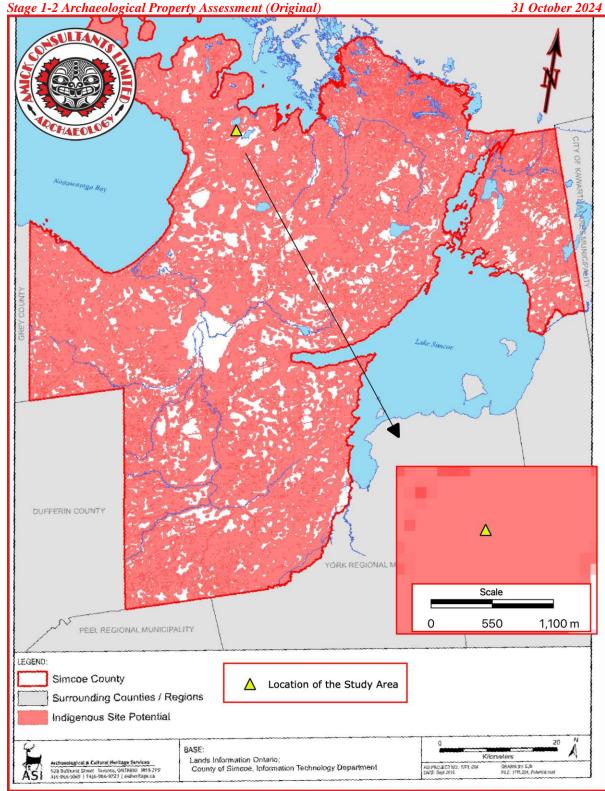
MAP 4 SITE PLAN (JONES CONSULTING GROUP 2023)



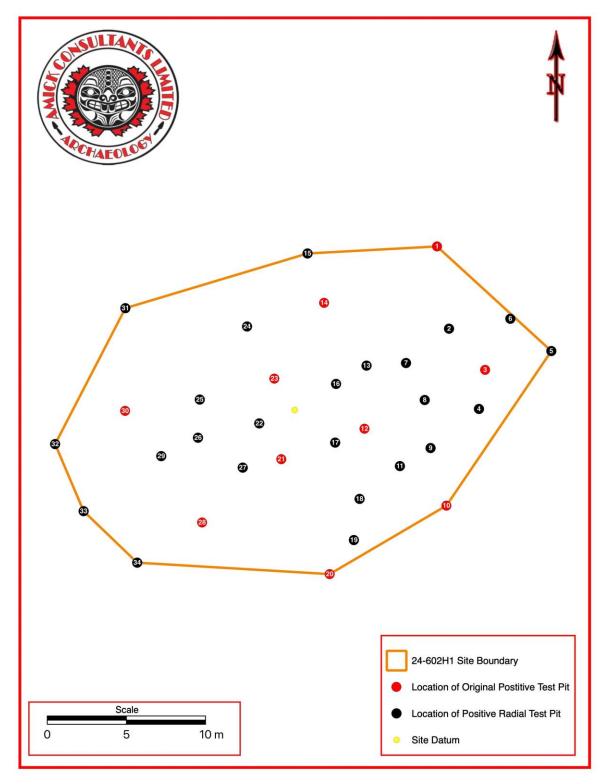
MAP 5 AERIAL PHOTO OF THE STUDY AREA (GOOGLE EARTH 2016)



MAP 6 DETAILED PLAN OF THE STUDY AREA (AFTER JONES CONSULTING GROUP 2023)



MAP 7 SIMCOE COUNTY ARCHAEOLOGICAL POTENTIAL (ASI 2019A)



MAP 8 24-602H1 (BEGX-81) SITE

IMAGES







IMAGE 13 CREW CONDUCTING TEST PIT SURVEY AT 5M INTERVALS



IMAGE 15 LOW-LYING WET AREA



IMAGE 17 DISTURBED TEST PIT



IMAGE 18 OVERVIEW OF DISTURBED TEST PITTING CONDITIONS



IMAGE 19 COMPLETED TEST PIT



IMAGE 20 CREW AT WORK CONDUCTING TEST PIT SURVEY AT 5M INTERVALS



IMAGE 21 COMPLETED TEST PIT



IMAGE 22 CREW AT WORK CONDUCTING TEST PIT SURVEY AT 5M INTERVALS



IMAGE 23 OVERVIEW OF TEST PITTING CONDITIONS



IMAGE 24 LOW-LYING WET AREA



IMAGE 25 ARTIFACT SAMPLE -TOP ROW: CAT# 8, 36, 11, 12, 73, 49, 97 BOTTOM ROW: CAT# 38, 43, 45, 31, 55, 54



IMAGE 26 ARTIFACT SAMPLE – CAT# 95, 138, 17, 16, 22



IMAGE 27 ARTIFACT SAMPLE – CAT# 62, 83, 93, 101



IMAGE 28 ARTIFACT SAMPLE - CAT# 113, 89

APPENDIX A: 24-602H1 (BEGX-81)ARTIFACT CATALOGUE

Note: Test pit numbers indicated with an asterisk (*) is a positive test pit encountered during the initial test pit survey at 5m intervals. Test pit numbers without an asterisk are positive radial test pits encountered during intensification.

| CAT | TP# | Layer | Material | Class | Type | Attribute | Form | Function | Qty | Date |
|-----|--------|-------|----------|---------------|----------------|-------------|-----------|--------------|-----|---------|
| # | | | | | | | | | | Range |
| 1 | TP 19 | N/A | Ceramic | Refined White | Undecorated | Clear Glaze | Body | Tableware | 1 | 1820- |
| | | | | Earthenware | | | Sherd | | | Present |
| 2 | TP 26 | N/A | Ceramic | Ironstone | Moulded | Clear Glaze | Body | Tableware | 1 | 1850- |
| | | | | | | | Sherd | | | Present |
| 3 | TP 26 | N/A | Ceramic | Ironstone | Undecorated | Clear Glaze | Body | Tableware | 1 | 1850- |
| | | | | | | | Sherd | | | Present |
| 4 | TP 26 | N/A | Ceramic | Coarse Red | Undecorated | Unglazed | Brick | Architecture | 1 | 1785- |
| | | | | Earthenware | | | Fragment | | | Present |
| 5 | TP 26 | N/A | Glass | Rolled Sheet | Window | Clarified | Window | Architecture | 1 | 1870- |
| | | | | | | | Pane | | | Present |
| 6 | TP 34 | N/A | Ceramic | Refined White | Undecorated | Clear Glaze | Rim Sherd | Tableware | 1 | 1820- |
| | | | | Earthenware | | | | | | Present |
| 7 | TP 32 | N/A | Metal | Iron | Cut | | Nail | Architecture | 1 | 1825- |
| | | | | | | | | | | 1890 |
| 8 | TP 32 | N/A | Ceramic | Refined White | Transfer Print | Black | Body | Tableware | 1 | 1845- |
| | | | | Earthenware | | | Sherd | | | 1870 |
| 9 | TP 31 | N/A | Glass | Rolled Sheet | Window | Clarified | Window | Architecture | 2 | 1870- |
| | | | | | | | Pane | | | Present |
| 10 | TP 31 | N/A | Metal | Iron | Cut | | Nail | Architecture | 1 | 1825- |
| | | | | | | | | | | 1890 |
| 11 | *TP 30 | N/A | Ceramic | Refined White | Transfer Print | Black | Rim Sherd | Tableware | 1 | 1845- |
| | | | | Earthenware | | | | | | 1870 |
| 12 | *TP 30 | N/A | Ceramic | Refined White | Transfer Print | Brown | Body | Tableware | 1 | 1818- |
| | | | | Earthenware | | | Sherd | | | 1869 |
| 13 | *TP 30 | N/A | Ceramic | Ironstone | Undecorated | Clear Glaze | Body | Tableware | 2 | 1850- |
| | | | | | | | Sherd | | | Present |
| 14 | TP 15 | N/A | Ceramic | Refined White | Undecorated | Clear Glaze | Body | Tableware | 1 | 1820- |
| | | | | Earthenware | | | Sherd | | | Present |

| 15 | TP 15 | N/A | Glass | Rolled Sheet | Window | Clarified | Window Pane | Architecture | 1 | 1870- Present |
|----|------------|----------------|----------|---------------|---------------|-------------|----------------|------------------|---|------------------|
| 16 | TP 15 | N/A | Glass | Commercial | Cylindrical | Amber | Bottle | Liquor Storage & | 1 | 1870- |
| 10 | 11 13 | IN/A | Glass | | Cymharicai | Amber | | | 1 | |
| | | 37/1 | ~- | Container | ~ | ~ | Shard | Consumption | | Present |
| 17 | TP 15 | N/A | Glass | Commercial | Cylindrical | Green | Bottle | Liquor Storage & | 1 | 1870- |
| | | | | Container | | | Shard | Consumption | | Present |
| 18 | TP 15 | N/A | Metal | Iron | Cut | | Nail | Architecture | 1 | 1825- |
| | | | | | | | | | | 1890 |
| 19 | TP 15 | N/A | Metal | Iron | Wire | | Nail | Architecture | 3 | 1890- |
| | | | | | | | | | | Present |
| 20 | TP 15 | N/A | Metal | Iron | Threaded | | Screw | Architecture | 1 | 1890- |
| | 11 10 | 1,711 | 1,10,001 | 11011 | 1111044004 | | 5616 ** | | - | Present |
| 21 | TP 29 | N/A | Glass | Rolled Sheet | Window | Clarified | Window | Architecture | 2 | 1870- |
| 21 | 11 29 | 11/1 | Glass | Rolled Silect | W IIIdo w | Clarifica | Pane | Architecture | 2 | Present |
| 22 | TP 29 | N/A | Glass | T. 1.4 | T. 1.4 | Pink | _ | T., 1. (| 1 | |
| 22 | 1P 29 | N/A | Glass | Indeterminate | Indeterminate | Pink | Diamond | Indeterminate | 1 | Indetermi |
| | | | | | | | | | | nate |
| 23 | TP 29 | N/A | Metal | Iron | Cut | | Nail | Architecture | 3 | 1825- |
| | | | | | | | | | | 1890 |
| 24 | TP 25 | N/A | Glass | Rolled Sheet | Window | Clarified | Window | Architecture | 2 | 1870- |
| | | | | | | | Pane | | | Present |
| 25 | TP 25 | N/A | Glass | Indeterminate | Indeterminate | Melted | Indetermin | Indeterminate | 1 | Indetermi |
| | | | | | | | ate | | | nate |
| 26 | TP 25 | N/A | Metal | Iron | Cut | | Nail | Architecture | 1 | 1825- |
| 20 | 11 23 | 1 1/11 | Wietur | non | Cut | | 1 (411 | Themteetare | • | 1890 |
| 27 | TP 22 | N/A | Glass | Commercial | Embossed | "MADE IN | Bottle | Storage | 1 | 1870- |
| 21 | 11 22 | 1 N / A | Glass | Container | Lilibossed | CANADA" | Base | Storage | 1 | |
| 20 | TED 22 | NT/A | CI | | C 1: 1: 1 | | | G. | ~ | Present |
| 28 | TP 22 | N/A | Glass | Commercial | Cylindrical | Clear | Bottle | Storage | 5 | 1870- |
| | | | | Container | | | Shard | | | Present |
| 29 | TP 22 | N/A | Glass | Commercial | Cylindrical | Green | Bottle | Liquor Storage & | 1 | 1870- |
| | | | | Container | | | Shard | Consumption | | Present |
| 30 | TP 24 | N/A | Ceramic | Ironstone | Undecorated | Clear Glaze | Body | Tableware | 1 | 1850- |
| | | | | | | | Sherd | | | Present |
| 31 | TP 24 | N/A | Ceramic | Refined White | Undecorated | Clear Glaze | Body | Tableware | 1 | 1820- |
| | | | | Earthenware | | | Sherd | | - | Present |
| 32 | TP 24 | N/A | Metal | Iron | Cut | | Nail | Architecture | 1 | 1825- |
| | - . | 1,,,,, | 1.10.001 | | | | 1,022 | | - | 1890 |
| 33 | TP 33 | N/A | Metal | Iron | Wire | | Nail | Architecture | 1 | 1890- |
| 33 | 11 55 | 11/71 | Wictai | 11011 | WIIC | | 1 14111 | Architecture | 1 | Present |
| | | | | | | | | | | Fieseilt |

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| 34 | TP 33 | N/A | Metal | Iron | Cut | | Nail | Architecture | 2 | 1825- 1890 |
|----|--------|-----|---------|------------------------------|-----------------------------|---------------|-----------------|--------------|---|------------------|
| 35 | TP 33 | N/A | Ceramic | Porcelain | Undecorated | Clear Glaze | Rim Sherd | Tableware | 1 | 1890- Present |
| 36 | TP 33 | N/A | Ceramic | Refined White Earthenware | Transfer Print | Cobalt Blue | Rim Sherd | Tableware | 2 | 1820- 1860 |
| 37 | TP 33 | N/A | Ceramic | Refined White Earthenware | Spongeware | Blue | Body Sherd | Tableware | 1 | 1820- 1860 |
| 38 | *TP 28 | N/A | Ceramic | Porcelain | Overglaze Decal | Green Foliage | Body Sherd | Tableware | 1 | 1890- Present |
| 39 | *TP 28 | N/A | Ceramic | Refined White Earthenware | Undecorated | Clear Glaze | Body Sherd | Tableware | 2 | 1820- Present |
| 40 | *TP 28 | N/A | Metal | Iron | Cut | | Nail | Architecture | 1 | 1825- 1890 |
| 41 | *TP 23 | N/A | Metal | Iron | Wire | | Nail | Architecture | 1 | 1890- Present |
| 42 | *TP 23 | N/A | Ceramic | Ironstone | Undecorated | Clear Glaze | Body Sherd | Tableware | 1 | 1850- Present |
| 43 | *TP 23 | N/A | Ceramic | Ironstone | Moulded | Clear Glaze | Body Sherd | Tableware | 1 | 1850- Present |
| 44 | *TP 23 | N/A | Glass | Commercial Container | Cylindrical | Clarified | Bottle Shard | Storage | 1 | 1870- Presnt |
| 45 | *TP 1 | N/A | Ceramic | Stoneware | Grey Bodied | Albany Slip | Body Sherd | Storage | 1 | 1830- 1900 |
| 46 | *TP 1 | N/A | Glass | Commercial Container | Cylindrical | Clarified | Bottle Shard | Storage | 1 | 1870- Present |
| 47 | *TP 1 | N/A | Metal | Iron | Cut | | Nail | Architecture | 3 | 1825- 1890 |
| 48 | *TP 12 | N/A | Glass | Commercial Container | Cylindrical | Clarified | Bottle Shard | Storage | 1 | 1870- Present |
| 49 | *TP 12 | N/A | Ceramic | Ironstone | Overglaze Transfer Print | Black | Body Sherd | Tableware | 1 | 1890- Present |
| 50 | *TP 12 | N/A | Ceramic | Refined White Earthenware | Transfer Print | Cobalt Blue | Body Sherd | Tableware | 1 | 1820- 1860 |
| 51 | *TP 14 | N/A | Ceramic | Ironstone | Transfer Print | Blue | Body Sherd | Tableware | 1 | 1890- Present |
| 52 | TP 6 | N/A | Glass | Rolled Sheet | Window | Clarified | Window Pane | Architecture | 1 | 1870- Present |

| 53 | TP 6 | N/A | Ceramic | Yellowware | Undecorated | Clear Glaze | Body Sherd | Tableware | 2 | 1830- 1930 |
|----|-------|-----|---------|------------------------------|-----------------------------|----------------------|-------------------|--------------------------------|---|------------------|
| 54 | TP 4 | N/A | Ceramic | Coarse Red Earthenware | Undecorated | Unglazed | Brick Fragment | Architecture | 2 | 1785- Present |
| 55 | TP 4 | N/A | Ceramic | Coarse Red Earthenware | Undecorated | Yellow Lead Glaze | Body Sherd | Food Preparation & Consumption | 1 | 1796- 1920 |
| 56 | TP 4 | N/A | Ceramic | Ironstone | Overglaze Transfer Print | Black | Body Sherd | Tableware | 1 | 1890- Present |
| 57 | TP 4 | N/A | Ceramic | Refined White Earthenware | Undecorated | Unglazed | Body Sherd | Tableware | 1 | 1820- Present |
| 58 | TP 4 | N/A | Glass | Commercial Container | Cylindrical | Clear | Bottle Shard | Storage | 1 | 1870- Present |
| 59 | TP 4 | N/A | Glass | Rolled Sheet | Window | Clarified | Window Pane | Architecture | 1 | 1870- Present |
| 60 | TP 4 | N/A | Metal | Iron | Cut | | Nail | Architecture | 1 | 1825- Present |
| 61 | TP 4 | N/A | Metal | Iron | Wire | | Nail | Architecture | 2 | 1890- Present |
| 62 | TP 4 | N/A | Metal | Iron | Wire | | Drill Bit | Indeterminate | 1 | 1890- Present |
| 63 | *TP 3 | N/A | Ceramic | Ironstone | Undecorated | Clear Glaze | Body Sherd | Tableware | 1 | 1850- Present |
| 64 | *TP 3 | N/A | Glass | Commercial Container | Cylindrical | Clarified | Bottle Finish | Storage | 1 | 1870- Present |
| 65 | *TP 3 | N/A | Glass | Commercial Container | Embossed | "DA" | Bottle Shard | Storage | 1 | 1870- Present |
| 66 | *TP 3 | N/A | Glass | Commercial Container | Cylindrical | Clarified | Bottle Shard | Storage | 2 | 1870- Present |
| 67 | *TP 3 | N/A | Glass | Rolled Sheet | Window | Clarified | Window Pane | Architecture | 2 | 1870- Present |
| 68 | *TP 3 | N/A | Glass | Commercial Container | Cylindrical | Green | Bottle Shard | Liquor Storage & Consumption | 1 | 1870- Present |
| 69 | TP 2 | N/A | Glass | Commercial Container | Cylindrical | Clear | Bottle Shard | Storage | 2 | 1870- Present |
| 70 | TP 2 | N/A | Ceramic | Porcelain | Undecorated | Clear Glaze | Body Sherd | Tableware | 1 | 1890- Presen |
| 71 | TP 2 | N/A | Metal | Iron | Cut | | Nail | Architecture | 2 | 1825- Present |

| 72 | TP 2 | N/A | Metal | Iron | Indeterminate | Indeterminate | Indetermin | Indeterminate | 1 | Indetermi |
|----|--------|-----|---------|------------------------------|----------------|-------------------------------|----------------------|--------------------------------|---|-----------------------|
| 73 | TP 2 | N/A | Ceramic | Refined White Earthenware | Spongeware | Pink | ate Body Sherd | Tableware | 1 | nate 1820- 1860 |
| 74 | TP 5 | N/A | Ceramic | Coarse Red Earthenware | Undecorated | Salt Glaze | Body Sherd | Food Preparation & Consumption | 1 | 1830- 1900 |
| 75 | TP 5 | N/A | Ceramic | Refined White Earthenware | Undecorated | Clear Glaze | Body Sherd | Tableware | 3 | 1820- Present |
| 76 | TP 5 | N/A | Ceramic | Refined White Earthenware | Transfer Print | Blue | Body Sherd | Tableware | 1 | 1830- 1890 |
| 77 | TP 5 | N/A | Ceramic | Ironstone | Maker's Mark | Pink; "TAYLOR&C" "LAND" | Base Sherd | Tableware | 1 | 1890- Present |
| 78 | TP 5 | N/A | Glass | Commercial Container | Cylindrical | Clarified | Bottle Shard | Storage | 1 | 1870- Present |
| 79 | TP 27 | N/A | Metal | Iron | Cut | | Nail | Architecture | 2 | 1825- 1890 |
| 80 | TP 27 | N/A | Metal | Iron | Wire | | Nail | Architecture | 1 | 1890- Present |
| 81 | TP 27 | N/A | Metal | Copper | Indeterminate | Indeterminate | Pin | Indeterminate | 1 | Indetermi nate |
| 82 | *TP 21 | N/A | Glass | Commercial Container | Cylindrical | Clarified | Bottle Shard | Storage | 1 | 1870- Present |
| 83 | *TP 21 | N/A | Metal | Iron | | | Spike | Architecture | 1 | 1825- 1890 |
| 84 | *TP 21 | N/A | Metal | Iron | Wire | | Nail | Architecture | 1 | 1890- Present |
| 85 | *TP 20 | N/A | Ceramic | Refined White Earthenware | Undecorated | Clear Glaze | Body Sherd | Tableware | 1 | 1820- Present |
| 86 | *TP 20 | N/A | Glass | Rolled Sheet | Window | Clarified | Window Pane | Architecture | 1 | 1870- Present |
| 87 | TP 18 | N/A | Ceramic | Ironstone | Transfer Print | Black | Rim Sherd | Tableware | 1 | 1850- Present |
| 88 | TP 18 | N/A | Ceramic | Ironstone | Moulded | Clear Glaze | Body Sherd | Tableware | 1 | 1850- Present |
| 89 | TP 18 | N/A | Faunal | Mammal | Fragments | | Bone | Indeterminate | 3 | Indetermi |

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| 90 | TP 18 | N/A | Glass | Rolled Sheet | Window | Clarified | Window Pane | Architecture | 1 | 1870- Present |
|-----|--------|--------|------------|---------------------------|--------------------|-------------|----------------|--------------------------------|-----|-------------------|
| 91 | TP 17 | N/A | Ceramic | Refined White | Undecorated | Clear Glaze | Body | Tableware | 2 | 1820- |
| | 11 1, | 1 1/11 | Cerunine | Earthenware | Chaccolatea | Cicar Giazo | Sherd | Tuote ware | _ | Present |
| 92 | TP 17 | N/A | Metal | Iron | Wire | | Nail | Architecture | 1 | 1890- |
| | | | | | | | | | | Present |
| 93 | TP 17 | N/A | Metal | Iron | Cut | | Nail | Architecture | 2 | 1825- |
| | | | | | | | | | | 1890 |
| 94 | TP 17 | N/A | Glass | Commercial | Cylindrical | Clarified | Bottle | Storage | 1 | 1870- |
| | | | | Container | | | Shard | | | Present |
| 95 | *TP 10 | N/A | Glass | Rolled Sheet | Window | Clarified | Window | Architecture | 1 | 1870- |
| | | | | | | | Pane | | | Present |
| 96 | *TP 10 | N/A | Glass | Commercial | Cylindrical | Clarified | Bottle | Storage | 3 | 1870- |
| | | | | Container | | | Shard | | | Present |
| 97 | *TP 10 | N/A | Ceramic | Refined White | Banded | Brown | Rim Sherd | Tableware | 1 | 1830- |
| | | 27/1 | | Earthenware | | | | | | 1940 |
| 98 | TP 9 | N/A | Ceramic | Yellowware | Undecorated | Clear Glaze | Body | Tableware | 1 | 1830- |
| | TED 0 | 27/4 | <i>a</i> . | T . | TY 1 . 1 | CI CI | Sherd | T 11 | | 1930 |
| 99 | TP 9 | N/A | Ceramic | Ironstone | Undecorated | Clear Glaze | Body | Tableware | 1 | 1850- |
| 100 | TP 9 | NT/A | Camanaia | Coorne Dod | I I ada a a mata d | Yellow Lead | Sherd | Essal Dusus sustinus | 1 | Present 1796- |
| 100 | 1179 | N/A | Ceramic | Coarse Red Earthenware | Undecorated | Glaze | Body Sherd | Food Preparation & Consumption | 1 | 196- |
| 101 | TP 9 | N/A | Metal | Iron | Wire | Glaze | Nail | Architecture | 1 | 1890- |
| 101 | 11 9 | IN/A | Metal | HOII | WIIE | | Naii | Architecture | 1 | Present |
| 102 | TP 9 | N/A | Metal | Iron | Cut | | Nail | Architecture | 1 | 1825- |
| 102 | | | | non | | | | | 1 | 1890 |
| 103 | TP 9 | N/A | Metal | Iron | Wire | Flat Head | Screw | Architecture | 1 | 1890- |
| | | | | | | | | | | Present |
| 104 | TP 9 | N/A | Glass | Rolled Sheet | Window | Clarified | Window | Architecture | 4 | 1870- |
| | | | | | | | Pane | | | Present |
| 105 | TP 9 | N/A | Glass | Commercial | Cylindrical | Clear | Bottle | Storage | 2 | 1870- |
| | | | | Container | | | Shard | | | Present |
| 106 | TP 9 | N/A | Glass | Indeterminate | Moulded | Melted | Indetermin ate | Indeterminate | 1 | Indetermi nate |
| 107 | TP 11 | N/A | Glass | Rolled Sheet | Window | Clarified | Window | Architecture | 5 | 1870- |
| 107 | 11 11 | 11/11 | Glass | Rolled Sheet | W IIIGO W | Clarifica | Pane | Memiceture | , | Present |
| 108 | TP 11 | N/A | Glass | Commercial | Cylindrical | Clarified | Bottle | Storage | 2 | 1870- |
| 100 | | 1 1//1 | Siass | Container | C j illianican | Clarifica | Shard | Storage | _ | Present |
| | | | I . | 00111111111 | | | ~ | l . | l . | 11000111 |

| 109 | TP 11 | N/A | Metal | Iron | Cut | | Nail | Architecture | 1 | 1925- Present |
|-----|-------|------|---------|---------------|----------------|-------------|------------|------------------|---|------------------|
| 110 | TP 11 | N/A | Ceramic | Coarse Red | Undecorated | Unglazed | Brick | Architecture | 1 | 1785- |
| 110 | 11 11 | IV/A | Ceranne | Earthenware | Ondecorated | Oligiazed | Fragment | Architecture | 1 | Present |
| 111 | TP 11 | N/A | Mortar | | | | | | 1 | Indetermi |
| | | | | | | | | | | nate |
| 112 | TP 11 | N/A | Metal | Iron | Sheet | | Indetermin | Indeterminate | 1 | Indetermi |
| | | | | | | | ate | | | nate |
| 113 | TP 11 | N/A | Faunal | Mammal | | | Tooth | Indeterminate | 1 | Indetermi |
| | | | | | | | | | | nate |
| 114 | TP 11 | N/A | Ceramic | Ironstone | Undecorated | Clear Glaze | Cup Base | Tableware | 1 | 1850- |
| | | | | | | | | | | Present |
| 115 | TP 11 | N/A | Ceramic | Refined White | Undecorated | Clear Glaze | Body | Tableware | 1 | 1820- |
| | | | | Earthenware | | | Sherd | | | Present |
| 116 | TP 11 | N/A | Ceramic | Ironstone | Transfer Print | Cobalt Blue | Body | Tableware | 1 | 1850- |
| | | | | | | | Sherd | | | Present |
| 117 | TP 11 | N/A | Ceramic | Yellowware | Undecorated | Rockingham | Body | Tableware | 1 | 1840- |
| | | | | | | Glaze | Sherd | | | 1900 |
| 118 | TP 13 | N/A | Glass | Commercial | Cylindrical | Clarified | Bottle | Storage | 8 | 1870- |
| | | | | Container | | | Shard | | | Present |
| 119 | TP 13 | N/A | Glass | Rolled Sheet | Window | Clarified | Window | Architecture | 2 | 1870- |
| | | | | | | | Pane | | | Present |
| 120 | TP 13 | N/A | Glass | Commercial | Cylindrical | Green | Storage | Liquor Storage & | 2 | 1870- |
| | | | | Container | | | | Consumption | | Present |
| 121 | TP 13 | N/A | Glass | Commercial | Cylindrical | Olive Green | Storage | Liquor Storage & | 1 | 1785- |
| | | | | Container | | | | Consumption | | Present |
| 122 | TP 13 | N/A | Faunal | Mammal | Fragment | | Bone | Indeterminate | 1 | Indetermi |
| | | | | | | | | | | nate |
| 123 | TP 13 | N/A | Ceramic | Ironstone | Painted | Green | Body | Tableware | 1 | 1850- |
| | | | | | | | Sherd | | | Present |
| 124 | TP 13 | N/A | Ceramic | Coarse Red | Undecorated | Lead Glaze | Body | Food Preparation | 3 | 1796- |
| | | | | Earthenware | | | Sherd | & Consumption | | 1920 |
| 125 | TP 13 | N/A | Metal | Iron | Wire | | Nail | Architecture | 1 | 1890- |
| | | | | | | | | | | Present |
| 126 | TP 13 | N/A | Metal | Iron | Cut | | Nail | Architecture | 3 | 1825- |
| | | | | | | | | | | 1890 |
| 127 | TP 13 | N/A | Plastic | | Sew-Threw | 5-hole | Button | Clothing | 1 | Indetermi |
| | | | | | | | | | | nate |

| 128 | TP 7 | N/A | Ceramic | Ironstone | Undecorated | Clear Glaze | Body Sherd | Tableware | 2 | 1850- Present |
|-----|-------|------|---------|---------------|----------------|-------------|---------------|------------------|---|------------------|
| 129 | TP 7 | N/A | Glass | Commercial | Cylindrical | Clear | Bottle | Storage | 5 | 1870- |
| | | | | Container | | | Shard | | | Present |
| 130 | TP 7 | N/A | Metal | Iron | Cut | | Nail | Architecture | 2 | 1825- 1890 |
| 131 | TP 7 | N/A | Ceramic | Yellowware | Undecorated | Clear Glaze | Body Sherd | Tableware | 3 | 1830- 1930 |
| 132 | TP 8 | N/A | Ceramic | Porcelain | Undecorated | Clear Glaze | Indetermin | Tableware | 1 | 1890- |
| 100 | TID 0 | NT/A | G : | T | TT 1 . 1 | CI CI | ate | TD 1.1 | 1 | Present |
| 133 | TP 8 | N/A | Ceramic | Ironstone | Undecorated | Clear Glaze | Body Sherd | Tableware | 1 | 1850- Present |
| 134 | TP 8 | N/A | Ceramic | Refined White | Undecorated | Clear Glaze | Body | Tableware | 1 | 1820- |
| | | | | Earthenware | | | Sherd | | | Present |
| 135 | TP 8 | N/A | Ceramic | Coarse Red | Undecorated | Lead Glaze | Body | Food Preparation | 1 | 1796- |
| | | | | Earthenware | | | Sherd | & Consumption | | 1920 |
| 136 | TP 8 | N/A | Ceramic | Refined White | Transfer Print | Blue | Body | Tableware | 1 | 1830- |
| | | | | Earthenware | | | Sherd | | | Present |
| 137 | TP 8 | N/A | Glass | Rolled Sheet | Window | Clarified | Window | Architecture | 1 | 1870- |
| | | | | | | | Pane | | | Present |
| 138 | TP 8 | N/A | Metal | Iron | Cut | | Nail | Architecture | 1 | 1825- 1890 |
| 138 | TP 16 | N/A | Ceramic | Yellowware | Undecorated | Clear Glaze | Body Sherd | Tableware | 2 | 1830- 1930 |
| 138 | TP 16 | N/A | Ceramic | Ironstone | Undecorated | Clear Glaze | Body | Tableware | 3 | 1850- |
| | | | | | | | Sherd | | | Present |
| 138 | TP 16 | N/A | Glass | Commercial | Cylindrical | Clear | Bottle | Storage | 2 | 1870- |
| | | | | Container | <u> </u> | | Shard | | | Present |
| 138 | TP 16 | N/A | Glass | Commercial | Cylindrical | Clarified | Bottle | Storage | 1 | 1870- |
| | | | | Container | | | Finish | | | Present |
| 138 | TP 16 | N/A | Glass | Rolled Sheet | Window | Clarified | Window | Architecture | 1 | 1870- |

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Present

Pane

APPENDIX B: DATABLE POST-CONTACT ARTIFACT TYPE DESCRIPTIONS

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The descriptions offered below are confined to datable historic artifacts typically recovered during field investigations. Although other materials are often found, they do not necessarily lend themselves to dating archaeological assemblages and are therefore not included in the following discussion. Additionally, the following represents a comprehensive reference guide for datable objects and is not limited to finds specific to a particular project or site assemblage.

CERAMICS

Creamware

Cream coloured earthenware was developed during the early 18th Century in England. Its development is attributed to Thomas Astbury of Shelton England during the reign of George I (Hughes n.d.: 104). George I reigned from 1714-1727 (Neumann 1967: 360). In the early period the lead glaze of this ware was applied in powdered form known as smithum or galena. Creamware achieved widespread production and general popularity as tableware by about 1750 as a result of Thomas Frye's development of a new process of applying the glaze in liquid form. This allowed for consistent and even application of decorative finishes and was quickly copied by other potters (Hughes n.d.: 105). Almost universal popularity was achieved by this ware when Josiah Wedgwood (founder of the renowned Wedgwood potteries) presented a creamware caudle and breakfast set of 73 pieces to Queen Charlotte as a gift to celebrate the birth of the Prince of Wales in 1762. It is said that the Queen was so impressed by this ware that she ordered a table service of the same ware but modified the design to her own taste. The resulting pattern became known as "Queen's Ware". When this set was delivered, George III saw it and likewise placed an order for an additional set altered to suit his own tastes. This further modification became known as the "Royal Pattern". As a result of these regal commissions, creamware achieved immense popularity (Hughes n.d.: 108).

By the late 1790s Creamware became the cheapest tableware in production. This was due to a number of factors, but it was mainly due to the introduction of pearlware which was whiter and more closely resembled oriental porcelain. This new ware quickly displaced Creamware as the most popular of the tableware produced during the late 18th and early 19th Centuries. By 1830 truly white (refined white earthenware) tableware was available. Creamware, known from about 1790 as "CC Ware", had changed as well. Officially "CC Ware" remained in production throughout the 19th Century but it became indistinguishable from refined white earthenware by about 1830.

Plain Creamware

Plain creamware was in production throughout the production history of the ware; however it is uncommon prior to 1790.

Pearlware

Pearlware was the next stage after creamware in the quest for a white ceramic body. For many years the development of pearlware was attributed to Josiah Wedgwood, who, after many experiments introduced a ceramic which he termed "pearl white" in 1779 (Hume 1982: 128; Sussman 1977: 105). Recently, a reconsideration of the evidence seems to suggest that pearlware, termed "china glaze", may have been in production sometime in the 1760s and certainly by 1775 (for a detailed discussion see Miller 1987).

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Pearlware is essentially a variation of creamware. The body of the ware is essentially the same with slightly higher flint content, but the real difference is in the glaze. Cobalt was added to the glaze of this ceramic as a bluing agent to make the off-white colour of the glaze appear whiter. This ceramic was called "pearl white and "china glaze" amongst other things but is now more commonly identified as pearlware.

Plain Pearlware

Plain undecorated pearlware fragments can be dated within the general production range of the ware itself, 1770 - 1830.

Polychrome Hand Painted Pearlware

Polychrome painted pearlware is simply pearlware which has been hand painted with more than one colour. There has been some attempt to differentiate polychrome painted wares based upon visibly identifiable distinctions in the particular hues employed. It has been suggested that from 1795 – 1815 colours were done in soft pastel hues, and thence onward colours were of bright blues, greens, and pinkish reds (Humes 1982: 129). Others have suggested that underglaze pinks and reds were not seen on datable pieces prior to 1820 and that this is also true of certain shades of purple and green (Sussman and Moyle 1988: 1). While this is generally the case and can aid in the further refinement of dates applied to collections of hand painted wares, the unfamiliar should remain leery. These distinctions result from the use of chromium oxide as a constituent element of pigments beginning sometime around 1820. One must bear in mind that the particular colouring oxides used are only one of several factors which can have great effect on the final appearance of any ceramic product.

Many factors can affect the final colouration of the ware such as: the specific proportion of each of the elements used in both the underglaze pigment and the glaze itself; the constituent elements of, and colour of the vessel body; and the internal conditions of the kiln during the firing process (the purity of the atmosphere and the temperature being chief among these). With respect to the use of chromium oxide in particular, the specific ingredients of a glaze recipe and variations in the temperature used in firing will yield dramatically different results. Chromium oxide will produce the colours of red, pink, yellow, brown, green and blue-green (Rhodes 1983: 209). Each of these colours can also be produced using other oxides which have a longer history of use in ceramic production. The essential difference is in the specific hues which chromium oxide produces in each of these colours which cannot be precisely duplicated by other means.

Relief Moulded Pearlware

This decorative technique is most commonly identified with ironstone. Raised designs on the vessels were incorporated into the moulding of the objects themselves. Many of the early patterns produced in this medium persist to the present day. Many ceramics manufactured prior to the introduction of ironstone, such as pearlware, incorporated the use of embossed designs, but this form of decoration had never been so closely identified with a particular ceramic as it became with ironstone.

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Slip Decorated Pearlware

This type of decoration is made by applying slip in patterns to the exterior surface of vessels. This type of decoration was used on ceramics both before and after the production of pearlware and is therefore not useful in refining a date from that of general pearlware production.

Transfer Printed Pearlware

Transfer printing was a method for transferring pictures to the surface of ceramic vessels which was developed during the late 18th Century. The use of colours other than cobalt blue for transfer printing was not attempted on any large scale until after 1828. The reason for this was that cobalt blue oxide was the only colouring agent which remained stable during the firing when used in conjunction with the transfer printing process. In 1828 a process was patented which allowed for the use of other colours. Immediately after this development colours such as red, brown, green, black and light blue were used on a popular level. Coloured transfers were popular in England by 1830 and had achieved similar appeal in North America by the early 1830s (Collard 1984: 117-118).

Shell Edge Decorated Pearlware

Shell edge came into production on creamware during the 1770s. It remained a status item of the middle and upper classes until the close of the century. Following the War of 1812, transfer printed wares began to rise very quickly in popularity and edged wares quickly became the cheapest of the decorated wares in the 19th Century. Edged wares remained in production on refined white earthenware long after pearlware ceased to be produced as a table ware around 1830 (Miller 1990: 115).

Refined Red Earthenware

Similar to refined white earthenware, refined red earthenware (RRE) is a semi-vitreous refined earthenware with a red clay paste rather than a white clay paste (Ricardi, 2020: 103). Fired at temperatures of 1100-1200° C, RRE is often clear, lead-glazed, hard and compact; it is only slightly porous and the compaction texture may be visible (Groover, 2003: 231-233).

Refined White Earthenware

The various forms of refined white earthenware which came into production during the 1820s remained in production for an extended period of time and do not lend themselves well to dating unless one has the advantage of makers' marks. In the case of this site there is not one example of refined white earthenware which has a maker's mark. This is not surprising since the ceramics from this ware category recovered from this site represent the cheapest types produced. The cheapest goods were often not marked since it was not considered worth the time and material.

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Refined white earthenware (or RWE) was one of the most popular mid-nineteenth century ceramic wared in Ontario. Decorated motifs identified include: factory-slipped annular ware and banded (ca. 1830-1920), scalloped blue edgeware (ca. 1830-1850), flow blue (ca. 1840-1860), hand-painted late palette (ca. 1830-1870s), Rockingham (ca. 1855-1890s), spongeware (ca. 1840-1870), blue (1820 to present), black (ca. 1830-1840s), brown (ca. 1830-1860; 1880s) green and red/pink transferprint (1830-1850). Spongeware motifs were common between ca. 1840-1870, while transferprint ranges in date from ca. 1820 to the present.

The highest frequency of decoration noted are the various transferprints (n=369). Annularware or banded ceramics are the next highest in frequency (n=62), followed by late palette hand painted (n=50), blue floware (n=34), spongeware (n=14) and scalloped edgeware (n=9).

Plain Refined White Earthenware

Lacking any definitive attributes, these sherds have been assigned a date of post 1825.

Polychrome Hand Painted Refined White Earthenware

Polychrome painted refined white earthenware is simply refined white earthenware which has been hand painted with more than one colour. There have been some attempts to differentiate polychrome painted wares based upon visibly identifiable distinctions in the particular hues employed. It has been suggested that from 1795 – 1815 colours were done in soft pastel hues, and from thence onward colours were of bright blues, greens, and pinkish reds (Humes 1982: 129). Others have suggested that underglaze pinks and reds were not seen on datable pieces prior to 1820 and that this is also true of certain shades of purple and green (Sussman and Moyle 1988: 1). While this is generally the case and can aid in the further refinement of dates applied to collections of hand painted wares, the unfamiliar should remain leery. These distinctions result from the use of chromium oxide as a constituent element of pigments beginning sometime around 1820. One must bear in mind that the particular colouring oxides used are only one of several factors which can have great effect on the final appearance of any ceramic product.

Many factors can affect the final colouration of the ware such as: the specific proportion of each of the elements used in both the underglaze pigment and the glaze itself; the constituent elements of, and colour of the vessel body; and the internal conditions of the kiln during the

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firing process (the purity of the atmosphere and the temperature being chief among these).

With respect to the use of chromium oxide in particular, the specific ingredients of a glaze recipe and variations in the temperature used in firing will yield dramatically different results. Chromium oxide will produce the colours of red, pink, yellow, brown, green and blue-green (Rhodes 1983: 209). Each of these colours can also be produced using other oxides which have a longer history of use in ceramic production. The essential difference is in the specific hues which chromium oxide produces in each of these colours which cannot be precisely duplicated by other means.

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Slip Decorated Refined White Earthenware

This type of ceramic is decorated by applying slip in patterns to the exterior surface of the vessels.

Sponge Decorated Refined White Earthenware

This decorative style is produced by applying pigment to the surface of vessels using sponges. This type of decoration enjoyed tremendous popularity during the middle of the 19th Century. Blue was the first colour used for this purpose and was most prevalent during the 1840s. Sponged wares were shipped to North America in quantity as cheap decorative kitchen and toiletry articles by mainly Scottish potteries until about 1890 (Collard 1984: 144-145).

Transfer Printed Refined White Earthenware

Transfer printing was a method for transferring pictures to the surface of ceramic vessels which was developed during the late 18th Century. The use of colours other than cobalt blue for transfer printing was not attempted on any large scale until after 1828. The reason for this was that cobalt blue oxide was the only colouring agent which remained stable during the firing when used in conjunction with the transfer printing process. In 1828 a process was patented which allowed for the use of other colours. Immediately after this development colours such as red, brown, green, black and light blue were used on a popular level. Coloured transfers were popular in England by 1830 and had achieved similar appeal in North America by the early 1830s (Collard 1984: 117-118).

Ironstone

Ironstone is partially vitrified white earthenware. Plain ironstone was first produced in the 1840s and featured no decorative elements apart from ribs, scrolls, or panels which were an intrinsic part of the vessel design. Various designs in relief moulded decoration were patterned from 1848 onward. One pattern, known generally as the "wheat" Pattern has remained in production in various styles from 1848 up to the present day (Sussman 1985: 7). Ironstone is first mentioned in Ontario store records in 1847 (Kenyon 1988: 25). This ware gained popularity throughout the second half of the nineteenth century until by the 1880s it far outsold other ceramic types (Kenyon 1988: 20).

Ironstone was manufactured specifically for the North American market. In general, those potteries which produced this ceramic did so to the exclusion of all others (Sussman 1985: 8). During its early history, throughout the 1850s and early 1860s, ironstone was evidently as expensive as the costly transfer printed wares (Sussman 1985: 9). This ware was being advertised in London (Ontario) newspapers by the early 1860s and by the 1870s was one of the most popular ceramics available on the market (Kenyon n.d.: 11). By 1897 it was the cheapest ceramic sold by the T. Eaton Company. Prices charged for either plain or relief decorated ironstone were the same (Sussman 1985: 9).

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Plain Ironstone

These pieces are not precisely datable and were most likely produced some time after 1840. Ironstone and a number of related vitrified and semi-vitrified wares were produced in great quantities during the second half of the 19th Century and into the 20th Century. These ceramics were a continuation of the development techniques and styles employed in the production of other earlier contemporary wares.

Relief Moulded Ironstone

The most common decorative technique identified with ironstone is relief moulding. Raised designs on the vessels were incorporated into the moulding of the objects themselves. Many of the early patterns produced in this medium persist to the present day. Many ceramics manufactured prior to the introduction of ironstone incorporated the use of embossed designs, but this form of decoration had never been so closely identified with a particular ceramic as it became with ironstone.

Slip Decorated Ironstone

This type of ceramic is decorated by applying slip in patterns to the exterior surface of the vessels.

Sponge Decorated Ironstone

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Transfer Printed Ironstone

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the firing when used in conjunction with the transfer printing process. In 1828 a process was patented which allowed for the use of other colours. Immediately after this development colours such as red, brown, green, black and light blue were used on a popular level. Coloured transfers were popular in England by 1830 and had achieved similar appeal in North America by the early 1830s (Collard 1984: 117-118). The decorative technique of transfer printing on ironstone has no affect on the general date range of this type of ware as it was applied to ironstone throughout the history of the production of this ceramic type.

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Soft Paste Porcelain

Porcelain was first produced in Europe at Meissen by the firm "Royal Saxon Porcelain Manufacture" in 1710, although it had been developed by Johann Friedrich Bottger two years previously in 1708 (Savage 1954:125). This development reflects the high regard Europeans had held for porcelain imported from China and Japan. Loved for their beauty and durability, European ceramic producers lost considerable revenue to this import and were determined to discover a means of duplicating the ware. In England the discovery of a formula for porcelain production was not achieved until probably 1743 when the "Chelsea" works went into production. A patent for soft paste porcelain was made the following year in the joint names of Edward Heylyn and Thomas Frye (Savage 1954: 210). Throughout the early period of European production these wares tended to be heavily ornamented with thick overglaze polychrome enamels and as processes were refined the decorative techniques of underglaze painting and transfer patterns were used extensively. These decoration techniques predominated well into the 19th Century. It was not until the late 19th Century. and particularly, the 20th Century that porcelain became accessible as a standard household ware. By this time its decorative characteristics were substantially debased, with plain porcelain becoming increasingly common.

Soft paste porcelain is the lowest grade of this ware and is different from the more costly hard paste porcelain in a number of ways. First, soft paste porcelain generally exhibits a greyish cast, whereas hard paste porcelain or true porcelain is white. When broken soft paste porcelain has a granular paste in appearance and a glassy glaze which is visibly distinct from the body. Hard paste is entirely glassy in cross section and it is very difficult to assess where the body ends and the glaze begins. High firing in this case ensures a more complete fusion of body and glaze which accounts for the difference in appearance of these two wares.

Plain Soft Paste Porcelain

Lacking any other diagnostic datable attributes, plain sherds of this ware cannot be more precisely dated beyond the general date range of this type of ceramic.

Semi-Porcelains:

A total of 36 semi-porcelain ceramic fragments was recovered during the assessment. Semi-porcelain was known outside of Canada as a hard-paste porcelain produced in England and continental Europe during the late nineteenth and twentieth centuries. The clay is fired to a hard-paste consistency so that it has a fine-grained, dense, and hard body. It is extremely

white in colour and the clear glaze has a high firing point which creates a glassy appearance. Semi-porcelain can be produced in moulded forms or have sprig moulding attached, as well as have transfer print and hand-painted motifs. In the twentieth century, semi-porcelain was exclusively decorated with overglaze decalcomania patterns and liquid gold embellishment (DAACS 2013).

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DAACS (2013). Digital Archaeological Archive of Comparative Slavery Cataloging Manual: Ceramics. October 2003, updated October 2013.

Stoneware

Stoneware is a class of ceramic which belongs under the larger heading of vitrified wares. Stoneware is manufactured from different clays that that used to make earthenware. This is because the objects in this medium are fired at much higher temperatures such that the clay is brought nearly to its melting point thereby causing the body to fuse together. It renders the body of the finished product much harder and therefore more durable. It has the added effect of rendering the paste of the fired ware wholly or partially water impermeable. Stoneware has been used to produce a wide variety of goods from the most elaborate and expensive to the most robust and utilitarian of the potter's craft.

Salt Glazed Stoneware

Salt glazed stoneware was first made in England during the latter years of the 16th Century. This particular variety of stoneware is relatively cheap and easy to produce as it requires only one firing to harden the vessel and to apply the glaze. The name "salt glaze" derives from the process by which this product is manufactured. At the appropriate time during the firing of the vessels, salt is shoveled into the kiln. The heat of the kiln causes the salt to separate into its constituent elements of sodium and chloride. The chloride gas escapes through the vent holes of the kiln and the sodium bonds with the silica present in the clay of the vessels to form a glass over the surface of the vessel. The manufacture of utilitarian wares of this type has been popular from the time of its development until well into the 20th Century. Salt glazed vessels rose to prominence as larger more efficient potteries were established in North America which could produce these high firing durable products at low cost. The industrial production of utilitarian stoneware goods displaced the localized red earthenware industry in the closing decades of the 19th Century.

Bristol Glazed Stoneware

Invented by William Powell of Bristol, Bristol glaze stoneware was manufactured from circa 1835 to the mid-20th century. Initially used as an alternative to salt and lead glazes to produce a smooth, white surface on stoneware pastes, Bristol glaze became popular in North America in the 20th century (Greer 1981:265). Bristol Glaze is a feldspathic glaze-slip using zinc oxide, that requires only a single firing. It is sometimes called "double glazed ware" because the two-toned effect required dipping each vessel in the glaze two times (Noël Hume 2001:324).

Yellow Ware

Yellow ware was generally used for kitchen crockery and utility bowls. Yellow ware which is decorated with coloured horizontal bands is often referred to as "banded ware". This is the most readily recognizable of the yellow ware products which became popular after 1840. Undecorated plain yellow ware is termed "common yellow" and dates from about 1830 onward. Yellow ware did not pass out of common usage in Canada until the 1930s (Lueger 1981: 141).

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Coarse Red Earthenware

Coarse red earthenware refers to a class of ceramic which was used largely for general purpose utilitarian kitchen and household wares. It is very difficult to date with precision as this form of vessel manufacture was pursued in the main by small cottage industries supplying what was normally a local market. As a result, they appear in highly variant forms based upon the clays, glazes, and techniques of each potter. They are common on historic sites from the beginning of settlement in North America until 1900. Two of the earliest potteries to be established in Ontario both began production in 1849. Many other potteries were soon established which provided domestic and utilitarian wares to primarily local consumers.

Coarse Yellow Earthenware

Coarse yellow earthenware (CYE) refers to coarse earthenware fabricated and decorated in the same way but the mineral composition of the clay produced a yellow paste rather than a red one.

Slip Lined Coarse Red Earthenware

This type of ceramic is decorated by applying slip in patterns to the exterior surface of the vessels.

Clay Pipes/White Ball Clay

White clay pipes were being mass-produced in Scotland, England, Canada, Germany and France by the 19th century. These pipes stems were typically marked along the stem with the maker and city of manufacture. These marks do not provide a specific date but provide the manufacturing date ranges of production (Walker 1970). As white clay pipes have a long use history they are very difficult to date with precision and are typically not used for dating a site.

Bottle Glass

Machine Made Bottle Glass

In the late 19th Century a trend started toward the manufacture of bottles with semi-automatic and fully automatic machines. Machine made bottles are hollowware containers shaped using air pressure supplied by a machine, both automatic and semi-automatic machines

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produce bottle with similar characteristics. The first workable semi-automatic machines were patented in 1881 in the United States and in 1886 in England, in the next few decades machine made containers become increasingly popular as they are cheaper to produce with continually refined techniques; by the early 20th Century hand blown bottle are becoming uncommon.

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Undiagnostic Bottle Glass

These pieces are likely from two-piece moulded vessels or from vessels produced using two-or-more vertical body moulds with separate bases. However these pieces were too small or did not have any diagnostic traits needed to identify the technology used in their manufacture.

Contact Moulded Bottle Glass

Contact moulding is a process by which full-sized objects or portions of objects are formed in a mould using air pressure from a mouth or machine. Hot glass is introduced into a mould, that may or may not have had a design, and expanded by air pressure until it fills the mould, at which point the object or partial object is removed. This technique was used during Roman times extensively for containers. It was reintroduced in the 17th Century but did not come into wide use in containers until the 18th Century (Jones and Sullivan 1989: 23-24).

Pressed Glass Tableware

During the press moulding manufacturing process hot glass is dripped into a mould which might consist of any number of pieces. The only limitation to the process is that the plunger must be able to enter and exit the mould without the necessity of it being opened. For decorated pieces, a design is embossed on the on the interior surface of the mould. The glass takes the form of the mould on its outer surface while the plunger shapes the inner surface. Once the object is removed from the mould it may be fire polished to restore the brilliance of the glass which has been lost due to contact with the mould (Jones and Sullivan 1989: 33)

Press moulding has been used on a small scale in England since the late 17th Century. At this time it was employed in the production of small solid objects such as imitation precious stones, glass seals, watch faces, etc. By the 1780s decanter stoppers and feet for vessels were being made using this technique. During the 1820s the technique was further developed in the United States and applied to the manufacture of complete vessels. By the early 1830s mass production of pressed table wares was underway in the New England states. Early pressed glass was manufactured primarily out of lead glass. William Leighton developed a lime glass in 1864 which resembled lead glass but was one third cheaper. Non-lead glass becomes common on Canadian sites from about 1870 onward (Jones and Sullivan 1989: 34-35)

Nails

Cut Nails

Around 1800, machines for cutting nails began to be used. At first these were simple machines resembling a table with a guillotine-like knife at one end. Strips of metal which were as broad as the resulting nails were to be long were fed against the blade. The strip of metal was shifted from side-to-side following each cut. This produced the tapered shank of the nail. Nails made by this method remained square in cross section and still required heads to be fashioned by hand. Around 1820 improved machines were developed for the manufacture of cut nails which included mechanical headers (Rempel 1980: 369). In general terms, cut nails dominated the construction industry from roughly 1825 to 1890 when they were displaced by wire nails.

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Forged Nails

Towards the end of the 18th Century all nails were made by the blacksmith out of nail stock. Nail stock was typically produced by a special mill on location at the iron works. Wrought iron strips were fed into the mill which cut it into sections which were square in cross-section. The resulting nail stock was cut into the required length by the smith, then heated, tapered and headed. These nails were not displaced by cut nails until around 1825 in developed areas. In more remote areas forged nails remained in use quite longer. This was especially the case with larger spikes which were often required to meet very particular specifications and not required in quantity (Rempel 1980: 367). Blacksmiths continued to fill the void between accessibility to commercial products and the needs of their clients into the first three decades of the twentieth century. Forged nails most likely date to the first half of the 19th Century although it is possible that they were produced at a later date.

Bullets

In 1823 Captain Norton of the British Army introduced devised a bullet shaped like a cylinder with a hollow concave base and a pointed tip. This became the basis for the modern bullet and the mathematical term for the shape is a "right-truncated cylindro-ogival". Twenty-five years later, the bullet was matched to a workable paper cartridge by Captain C. E. Minie of France and the "minny ball" was born. The earliest self-igniting metal cartridge followed soon after the union of these two pieces. In 1842 Dreyse's needle gun was patented. The needle gun cartridge had a projecting pin from the base of the cartridge that was struck by the flat hammer of the firearm. This development included the innovation of the expansive gas cartridge. This important development allows a brass cartridge to expand under pressure once ignited. This at once releases the bullet and forms an air tight pressure seal in the breach of the weapon and results in higher pressure behind the fired cartridge leading to higher velocity and longer distance of travel. The drawbacks to this cartridge design were that they were easily damaged and ignited if mishandled or dropped and they tended to corrode around the protruding pin in storage or moist environments making them unserviceable. The solution to this problem took two forms: the rimfire cartridge and the centrefire cartridge. In a rim fire cartridge the fulminate for ignition of the main charge is in a narrow band around the crimped edge of the cartridge. This design works well but only for small caliber low velocity rounds. The modern .22 cartridge is an example of this method. The centrefire cartridge was developed during the 1850s. In this configuration a percussion cap is seated in the centre of the base of the round. By 1870 this form of cartridge was used

for nearly all high velocity rounds and after 1870 for nearly every caliber of small arms ammunition (Held 1959: 183-184).

Bakelite

Bakelite is an early form of brittle plastic made from formaldehyde and phenol, used chiefly for electrical equipment. It was developed in 1907 and patented in New York state in 1909 (American Chemical Society, 1993: 1).