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## **REVISED REPORT**

## Stage 1 and 2 Archaeological Assessment

Proposed Cardinal Creek Development - Part Lot 28 Concession 1, Geographic Township of Cumberland, Ottawa, Ontario

## **Prepared For**

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Attention: Mr. Ted Philips

## September, 2012

PIF: P369-002-2012

Ben Mortimer, MA (Licence Number P369)

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#### 1.0 Executive Summary

Paterson Group, on behalf of Taggart Investments (Taggart), undertook a combined Stage 1 and 2 archaeological assessment of the study area located on Part Lot 28, Concession 1 in the geographic township of Cumberland. The objectives of the investigation were to assess the archaeological potential of the property and determine through field survey whether there were archaeological resources in the study area prior to development in accordance with the Planning Act.

Taggart Investments is planning to develop the property into a residential development similar to subdivisions in the surrounding areas.

The Stage 1 assessment included a review of updated Ontario Ministry of Tourism, Culture and Sport (MTCS) archaeological site databases, a review of relevant environmental, historical and archaeological literature, and primary historical research, including: historical maps, aerial photographs, and land registry records. The subject property has archaeological potential based on the proximity of historic roads and topographic features and the fact that the area is indicated as having potential on the City of Ottawa archaeological management plan (Archaeological Services Inc. & Geomatics International Inc. 1999a, 1999b).

The Stage 2 component of the archaeological assessment involved a pedestrian survey of the area where ploughing was possible. Subsurface testing occurred in areas that could not be ploughed, such as woodlots, which consisted of hand excavated test pits at 5m intervals. The field portion was undertaken over 6 days between June 5 and July 3, 2012. Weather conditions were sunny with temperatures that ranged between 18 and 32° Celsius. Permission to access the property was provided by Taggart (May 22, 2012).

Based on the results of this investigation it is recommended:

- 1. That a partial clearance of the Proposed Cardinal Creek Development Part Lot 28 be granted, except for Operation 2.
- 2. The Ministry of Tourism, Culture and Sport provide a letter confirming that there are no further concerns with regard to alterations to archaeological sites for the partial cleared areas of the property (excluding Operation 2).
- 3. That a Stage 3 archaeological assessment be conducted by a licensed archaeologist in the form of a controlled surface pick-up followed by 1m² excavation units on a grid. This site dates to before 1870 and so displays cultural heritage value as per Section 1. a., Standard 3.4.2, and is recommended to proceed to a Stage 4. Therefore the Stage 3 testing should be done on a 10 m interval as per Standard 1, Section 3.2.3, as (MTCS 2011), to determine the extent and affinity of the historic site located on Part Lot 28, Operation 2 (BiFu-7) (as illustrated by the area marked in orange on Supplementary Documentation Map 3) as per Sections 3.2.1, 3.2.2, and 3.2.3 (MTCS 2011). Furthermore, as per Standard 1, Section 3.2.3, as (MTCS 2011), an additional 40% infill of the initial grid unit total should be excavated in areas of interest. This site will have a 20 m protective buffer zone, and a 50 m monitoring zone (Supplementary Documentation Map 4).

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## 3.0 Project Personnel

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#### 4.0 Project Context

#### 4.1 Development Context

Paterson Group was contracted by Taggart Investments (Taggart) to conduct a Stage 1 and 2 archaeological assessment of the proposed Cardinal Creek Village Development located on Concession 1, Part Lot 28 in the former township of Cumberland, Russell County (Map 1). Taggart Investments is constructing a subdivision on the study property (Map 2). This archaeological assessment has been required by a pre-application submission prior to development.

The City of Ottawa has an archaeological management plan which was developed in 1999, *The Archaeological Resource Potential Mapping Study of the Regional Municipality of Ottawa-Carleton*. The management plan covers the Township of Cumberland (Archaeological Services Inc. and Geomatics International Inc. 1999a, 1999b). According to the management plan, the entire study area has archaeological potential.

At the time of the archaeological assessment, the entirety of the study area was owned by Taggart Investments and was in the pre-development phase. Permission to access the study property was granted by Taggart Investments prior to the commencement of any field work; no limits were placed on this access.

#### 4.2 Historical Context

#### 4.2.1 Historic Documentation

There are a few published resources on the history of Cumberland Township. The township is briefly referred to in *Ottawa Country* (Bond 1968), but most notably in *Historical Research for Cumberland Township* (Heinz 1936), and *Memories of Cumberland Township* (Cumberland Township Historical Society 2006). Another useful resource is the *Prescott and Russell Supplement to the Illustrated Atlas of the Dominion of Canada* (1881).

### 4.2.2 Pre-Contact Period

The Ottawa Valley was not hospitable to human occupation until the retreat of glaciers and the draining of the Champlain Sea, some 10,000 years ago. The Laurentide Ice Sheet of the Wisconsinian glacier blanked the Ottawa area until about 11,000 B.P. At this time the receding glacial terminus was north of the Ottawa Valley, and water from the Atlantic Ocean flooded the region to create the Champlain Sea. The Champlain Sea encompassed the lowlands of Quebec on the north shore of the Ottawa River and most of Ontario east of Petawawa, including the Ottawa Valley and Rideau Lakes. However, by 10,000 B.P. the Champlain Sea was receding and within 1,000 years was gone from Eastern Ontario (Watson 1990:9).

By circa 11,000 B.P., when the Ottawa area was emerging from glaciations and being flooded by the Champlain Sea, northeastern North America was home to what are commonly referred to as the Paleo-Indian people. For Ontario the Paleo-Indian period is divided into the Early Paleo-Indian period (11,000 - 10,400 B.P.) and the Late Paleo-Indian period (10,500-9,400 B.P.), based on changes in tool technology (Ellis and Deller 1990). The Paleo people, who had moved into hospitable areas of southwest Ontario (Ellis and Deller 1990), likely consisted of small groups of exogamous hunter-gatherers relying on a variety of plants and animals who ranged over large territories (Jamieson 1999). The few possible Paleo-Indian period artifacts found, as surface finds or poorly documented finds, in the broader region are from the Rideau Lakes area (Watson 1990) and Thompson's Island near Cornwall (Ritchie 1969:18). In comparison, little evidence exists for Paleo-Indian occupations in the immediate Ottawa Valley, as can be expected given the environmental changes the region underwent, and the recent exposure of the

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area from glaciations and sea. However, as Watson (1999:38) suggests, it is possible Paleo-Indian people followed the changing shoreline of the Champlain Sea, moving into the Ottawa Valley in the late Paleo-Indian Period, although archaeological evidence is absent.

As the climate continued to warm, the ice sheet receded further allowing areas of the Ottawa Valley to be travelled and occupied in what is known as the Archaic Period (9,500 – 2,900 B.P.). This period is generally characterized by increasing populations, developments in lithic technology (e.g., ground stone tools), and emerging trade networks. Archaic populations remained hunter-gatherers with an increasing emphasis on fishing. Sites from this period in the region include Morrison's Island-2 (BkGg-10), Morrison's Island-6 (BkGg-12) and Allumette Island-1 (BkGg-11) near Pembroke, and the Lamoureaux site (BiFs-2) in the floodplain of the South Nation River (Clermont 1999).

The Woodland Period is characterized by the introduction of ceramics. Populations continued to participate in extensive trade networks that extended across much of North America. Social structure appears to have become increasingly complex with some status differentiation recognized in burials. Towards the end of this period domesticated plants were gradually introduced to the region. This coincided with other changes including the development of semi-permanent villages. The Woodland period is commonly divided into the Early Woodland (1000 – 300 B.C.), Middle Woodland (400 B.C. to A.D. 1000), and the Late Woodland (A.D. 900 – European Contact) periods.

The Early Woodland is typically noted via lithic point styles (i.e., Meadowood bifaces) and pottery types (i.e., Vinette I). Early Woodland sites in the Ottawa Valley region include Deep River (CaGi-1) (Mitchell 1963), Constance Bay I (BiGa-2) (Watson 1972), and Wyght (BfGa-11) (Watson 1980). The Middle Woodland period is identified primarily via changes in pottery style (e.g., the addition of decoration). Some of the best documented Middle Woodland Period sites from the region are from Leamy Lake Park (BiFw-6, BiFw-16) (Laliberté 1999).

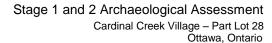
The identification of pottery traditions or complexes (Laurel, Point Peninsula, Saugeen) within the Northeast Middle Woodland, the identifiers for the temporal and social organizational changes signifying the Late Woodland Period, subsequent phases within in the Late Woodland, and the overall 'simple' culture history model assumed for Ontario at this time (e.g., Ritchie 1969; Wright 1966, 2004) are much debated in light of newer evidence and improved interpretive models (Engelbrecht 1999; Ferris 1999; Hart 2011; Hart and Brumbach 2003, 2005, 2009; Hart and Englebrecht 2011; Martin 2008; Mortimer 2012). Thus the shift into the period held as the Late Woodland is extremely fuzzy. Needless to say there are general trends for increasingly sedentary populations, the gradual introduction of agriculture, and changing pottery and lithic styles. However, nearing the time of contact, Ontario was populated with somewhat distinct regional populations that broadly shared many traits. In the southwest, in good cropland areas, groups were practicing corn-bean-squash agriculture in semi-permanent, often palisaded villages which are commonly assigned to Iroquoian peoples (Wright 2004:1297-1304). On the shield and in other non-arable environments, including portions of the Ottawa Valley, there seems to remain a less sedentary lifestyle often associated with the Algonquian groups noted in the region at contact (Wright 2004:1485-1486).

#### 4.2.3 Post-Contact Period

The first survey of 47,000 acres that would become Cumberland Township took place in 1791. A second survey in 1798 stated that counties should be made up of townships within eight judicial districts: Eastern, Johnston, Midland, Home, Niagara, London, Western and Newcastle. This was executed in 1802, when the area became part of the Eastern District which consisted of the counties of Glengarry, Dundas, Leeds, and Stormont (Cumberland Township Historical Society 2005).

In the summer of 1799, Cumberland Township was named to honour Prince Ernest Augustus I, one of the numerous children of George III, who became Duke of Cumberland on 24 April 1799. By October

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1799, Cumberland Township was listed as existing partly in Stormont and Dundas Counties. On January 1, 1800, Cumberland Township was included with the townships of Clarence, Gloucester, Osgoode, Russell, and Cambridge in the County of Russell, which was now included in the Eastern District (Cumberland Township Historical Society 2005).

In Russell County, the first settlements occurred along the Ottawa River. The village of Cumberland was established on the south shore of the Ottawa River in 1801. Its strategic location at the confluence of the Lievre and Ottawa Rivers made it a popular early fur trading post. Settlement is not recorded in the interior of the township prior to 1820. By 1828, there were only twelve landowners in the township (Assessment Rolls for Cumberland Township 1834-1848).

By the mid-1800s the village of Cumberland was a major seasonal forwarding centre. A wharf allowed for mail carriers to transport communications, and the village had two telegraph offices. Cumberland also had a small ship building industry (Cumberland Township Historical Society 2005). In 1851, the population of Cumberland township was 1,659 and by 1861 had almost doubled to 2,609 (Bond 1968:22). In 1851, the township consisted of one stone house, 54 frame houses, 46 log houses, and 115 shanties. By 1861, the township had 6 stone houses, 16 frame houses, 315 log houses, and zero shanties (Bond 1968:24).

#### 4.2.4 Study Area Specific History

The study area is located on Part Lot 28, the first Concession from the Ottawa River in the geographic township of Cumberland. The original 200 acre parcel that comprises Lot 28 was granted by the Crown to Matilda Cozens on May 25, 1836. The 1825 Coffin map of Cumberland Township shows that the land was granted at that time, which may indicate that the Land Ticket had already been issued, but had not yet been registered (Map 3). Unfortunately, Matilda Cozens must have passed away shortly after acquiring the property as the next entry in 1839 is her will. By 1840, a structure is shown on Lot 28 to the north of the roadway (Assessment Rolls for Cumberland Township 1834-1848) (Map 3). A relative of Matilda, Joshua F. Cozens, sold the property in 1848 to Edward Dagton and William McShaw for £287. In 1850, Dagton and McShaw sold the property to Robert J Lusk for £200. Lusk is shown as the property owner on the 1862 map (Walling 1862) and by 1881 the property has two small structures close to the road (Belden 1881) (Map 4). Lusk mortgaged the property several times before declaring bankruptcy in 1882. The Court ruled that the land would pass to Honore Cotte, one of the previous lenders. Cotte sold the property in 1885 to Francis Masson, who in turn sold the property that same year to Israel Cardinal (Land Registry Record AR-24). Israel was a French Canadian farmer born in Quebec in 1857. With his wife Edwidge he had nine daughters and two sons (Canada Census 1901). The eldest son, Alderic, inherited the property in 1907 at the age of 13. In 1908, Alderic sold five and a half acres to the Canadian Northern Ontario Railway Company. Alderic maintained possession of the remainder of the property until his death in 1939, when the property remained in the Cardinal family for whom the creek that runs through the property is named (OLR:AR-24).

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#### 4.3 Archaeological Context

#### 4.3.1 Current Conditions

The study area consists of 18.8 hectares that is characterized primarily by cultivated corn fields (Figure 1, Figure 3), lightly wooded areas to the north and central section (Figure 8), and an overgrown field to the south surrounding a barn (Figure 5). The property is relatively flat, but a large slope culminating in a ridge is located to the north of the property. Cardinal Creek runs through the property.

A barn and church are present on the south section of the study property, however the church is not owned by Taggart and is outside of the development area. No other structures are present on the study area property.

#### 4.3.2 Physiography

The study area lies within the Ottawa Valley Clay Plains (Map 5). The region is characterized by poorly drained topography of clay plains interrupted by ridges of rock or sand that offer moderately better drainage, This topography was influenced by the post glacial sequence Champlain Sea (*ca.* 10,500 to 8,000 B.C.) that deposited these clay soils and were subsequently covered by sand deposits from the emerging fresh water drainage. Some of these sands were eroded to the underlying clay deposits by later channels of the developing Ottawa River. The sections to the north and south of the Ottawa River are characteristically different. On the Ontario side there is a gradual slope, although there are also some steep scarps. (Chapman and Putnam 2007:205-208).

The soils of the regions consist of St. Rosalie clay, Wendover clay, and a Grenville loam and Bearbrook clay complex (Map 5). St. Rosalie clay consists of a stone free light clay soil. It is light grey in colour with a light grey non-calcareous parent material. Drainage of this soil is poor and the topography is level. Wendover clay soils are also stone free and grey in colour, however the parent material is non-calcareous layered red and grey clay. This type of soil is good cropland, undulating, but the drainage imperfect. Grenville loam is a stony loam with stony calcareous loam till parent material. It has a rolling topography and good drainage and is considered excellent cropland. Bearbrook clay is a stone free, dark grey soil. The parent material is non-calcareous layered red and grey clay. This has poor drainage, level topography, and is considered good cropland (Wicklund and Richards 1962).

#### 4.3.3 Previous Archaeological Assessments

Archaeological work in the region has primarily consisted of cultural resource management studies related to specific properties or development projects. Projects located within the vicinity of the study property include Stage 1 and 2 assessments for a proposed subdivision located on part of Lots A, B & C, Concession. 8 & 9, Cumberland Township (Swayze 2001), a Stage 1 assessment of Part Lots D and E, Concession 7 and Part Lot 21, Concession 7 in Cumberland Township (Adams 2009), and a Stage 1 assessment for a hydro corridor to Quebec that passed through Cumberland Township (Kennett 1999).

### 4.3.4 Registered Archaeological Sites

A search of the Ontario Archaeological Sites Database indicated that no registered sites are located within a 1 km radius of the study area. The search was expanded to a 2 km radius and revealed two archaeological sites to the south of the study area. These are BiFu-5 (Cardinal Creek Homestead), a late 19<sup>th</sup> to early 20<sup>th</sup> Century Euro-Canadian homestead, and BiFu-6, an unidentified lithic scatter.

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### 4.4 Archaeological Potential

The study property exhibits several indicators for pre-contact archaeological potential including proximity to water sources, elevated topography, and pockets of well drained sandy soil. Based on current knowledge of the pre-contact archaeology of the Ottawa Valley, there is potential for pre-contact archaeological sites in this area. Archaeological potential is increased by the proximity of other known archaeological sites, however, the only known lithic scatter is located more than 1 km away from the site.

The land registries, census records, and historic maps show that although this area was mainly rural, the property was occupied from early in the nineteenth century and there is evidence of a structure located on the property. Likewise the study property was close to historic transportation routes in the form of roads and rail systems. One other known historic period archaeological site is located within a 2 km radius of the study property.

This study property demonstrates high potential for both pre-contact and historic period archaeological sites (Map 6).

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#### 5.0 Field Methods

This property is considered high potential according to the 2011 standards set out for consultant archaeologists by the MTCS, due to its proximity to historic development areas, water sources, and topographic features. In accordance with these standards, the entire property was surveyed at a 5 metre test interval, with the exception a small section of the northern slope and ridge which was judged to have a grade exceeding 20 degrees (Figure 11 and Figure 12), areas that consisted of permanently wet land (Figure 7) and the footprint of the barn which consisted of a disturbed area (Figure 5). This area is exempt from Stage 2 survey as per Stand. 2. a. i. and iii., Sect. 2.1 (MTCS 2011). These excluded areas comprised 13% (2.5 ha.) (Map 7).

Approximately 63% (11.9 ha.) of the subject property was suitable for ploughing (Map 7) as described in Standard 1, Section 2.1.1 of the Standards and Guidelines for consultant archaeologists (MTCS 2011) (Figure 1, Figure 3). This area was pedestrian surveyed at high potential 5 metre intervals (Figure 2, Figure 4). All surveyed fields had been plowed prior to commencing fieldwork, and exhibited minimal new growth. Fields were adequately weathered, with heavy rainfall occurring June 3, the day before pedestrian survey began. Pedestrian survey resulted in the discovery of a moderate sized scatter of historic Euro-Canadian artifacts.

Approximately 23% (4.4 ha.) of the property was not suitable for ploughing as per Standard 1.a. and 1.c., Section 2.1.2 (MTCS 2011) (Figure 5). This area was shovel tested at 5 meter intervals (Map 7) (Figure 6, Figure 8). All tests-pits were a minimum of 30 cm² and were excavated into the first 5cm of subsoil. All soil was screened using 6mm mesh screens. All test-pits were examined for cultural features and stratigraphy then backfilled. In areas where insufficient information was found for recommending a Stage 3 assessment, the survey area was intensified around a positive test pit in order to determine whether or not a Stage 3 was necessary (Figure 9, Figure 10).

Diagnostic or formal artifact types were all collected, bagged, and labelled according to the find spot during the pedestrian survey, or by shovel test unit. When artifacts were found during pedestrian survey they were flagged then pedestrian survey of the area surrounding the find was intensified to 1 m transects perpendicular to the 5 m transects. These extended 20 m in all directions from the find. As new finds were found in the intensified area, they too were flagged and the area of 1 m transects expanded accordingly until such time as 20 m from the last find had been cleared. Diagnostic artifact locations were recorded using a Garmin GPSmap 62 GPS unit.

When artifacts were found during the shovel testing the location was recorded using a Garmin GPSmap 62 and flagged for ease of returning to that location. The remainder of the grid was investigated.

The provenience system used for this project is based upon the Paterson project number plus operation number, plus sub-operation number, plus find spot number, thus the first pedestrian find in operation 1, sub-operation A under this Project number was P1001-1A1. Similarly the first positive test pit in sub-operation B within operation 1 is designated P1001-1B1. Operation areas are intended to convey geographic areas within the larger property. Sub-operations are intended to represent find areas or archaeological interest areas

Photographs were taken during fieldwork in order to document the current land conditions (Map 8) Standard 1.a., Section 7.8.5 (MTCS 2011). A representative sample of all categories of diagnostic artifacts were also photographed as per Standard 2, Section 7.5.11 (MTCS 2011).

Field work was undertaken during 6 days between June 5 and July 3, 2012. Weather conditions were sunny with temperatures that ranged between 18 and 32° Celsius. Permission to access the property was provided by Taggart (May 22, 2012).

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## 6.0 Record of Finds

All artifact dates are sourced from the Parks Canada Archaeological Resources Database (Parks Canada 2012).

## 6.1 Operation 1

During field testing of the southern section of the property a total of 26 artifacts were recovered from pedestrian survey and shovel testing (see Supplementary Documentation Map 1). This area was labelled Operation 1. Artifacts were recovered over a wide area (230 x 350 m) and are not concentrated. The artifact catalogue is provided as Appendix A.

Recovered ceramics indicate a scatter of mid to late 18<sup>th</sup> century Euro-Canadian artifacts. These include refined white earthenwares of different styles including plain and blue transfer (1830+). One piece of a porcelain tea cup with a lithographed floral design (1890+) was found.

Other artifacts include an iron buckle, possibly from a harness, a base from a 2-piece bottle mould with hinged base (1750-1870) of aqua glass, and a fragment of plain pipe stem (Figure 15).

Also recovered was a small amount of lithic material, which consists of two quartzite thinning flakes and one quartzite secondary thinning flake (Figure 13).

Artifacts left in the field as an indicator of the site location, as per Section 2.1.1, Standard 9 (MTCS 2011), include three plain refined white earthenware body sherds, one olive green bottle body fragment, two cut nails, a piece of lamp chimney glass, and a quartzite thinning flake.

#### 6.2 Operation 2

During pedestrian survey in the north-eastern field area a scatter of historic Euro-Canadian artifacts was located. The periphery of the forested area had four positive test pits. Intensification around three positive test pits did not occur, since they were associated with the finds from the adjacent field in which intensification of the pedestrian survey did occur (see Supplementary Documentation Map 2). The area around test pit PA1001-2C1 was intensified (as per 2.1.3 Standard 2b Option A) with no additional finds Supplementary Documentation Map 5. This area was labelled Operation 2. The artifacts collected during Stage 2 testing totalled 143 and included ceramics, window pane glass, bottle glass, smoking pipe fragments, and other miscellaneous items. The artifact catalogue is provided as Appendix A.

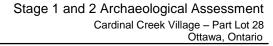
Recovered ceramics included refined white earthenwares of different styles such as blue transfer, which included the Willow pattern (1830+); blue sponged (1840-1890); black stamped (1840-1890); blue edged (1830-1890); brown transfer (1830+); red transfer (1830+) industrial slip banded pattern (1830-1930); and painted late palette (1830+). Other ware types included yelloware (1827-1972), coarse red earthenware, coarse buff earthenware, and vitrified white earthenware (1845+) (Figure 14).

Bottle glass was mostly aqua, light blue, colourless, or dark olive green coloured glass. These consisted of panel bottles and unidentified bottle shards.

Smoking pipe fragments included two pipe bowl fragments, one plain and one with a band of raised rectangles, and one plain pipe stem made of red earthenware (Figure 15). Personal items included one shell two-hole button and part of a writing slate.

Artifacts left in the field as an indicator of the site location, as per Section 2.1.1, Standard 9 (MTCS 2011), encompass approximately 50% of the scatter and include refined white earthenware sherds of various decoration types (blue transfer, purple transfer, hand painted, blue edged), one coarse red

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earthenware sherd, clear bottle glass, mammal teeth, decorated smoking pipe bowl, and red clay pipe stem.

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#### 7.0 Analysis and Conclusions

The artifacts from Operation 1 do not trigger a requirement for a Stage 3 assessment based on Section 1.a.i.(2), 1.c., Standard 2.2 (MTCS 2011).

Analysis of the Euro-Canadian artifacts recovered during Stage 2 survey in Operation 2 found that the majority of the recovered material dated to the mid-late 19th century, with no material suggesting a post 1900 date. The combination of household artifacts, building materials, and scatter size suggests that the site may comprise the remains of a cabin. Under Standard 1.c. of Section 2.2 of the Standards and Guidelines for Consultant Archaeologists (MTCS 2011) this site is considered culturally significant and requires Stage 3 investigation with a likelihood of Stage 4 as this site dates to before 1870 and so displays cultural heritage value as per Section 1.a., Standard 3.4.2 (MTCS 2011). This site has been registered with the MTCS as BiFu-7 (Supplementary Documentation Map 3).

#### 8.0 Recommendations

Based on the results of this investigation it is recommended:

- 1. That a partial clearance of the Proposed Cardinal Creek Development Part Lot 28 be granted, except for Operation 2.
- 2. The Ministry of Tourism, Culture and Sport provide a letter confirming that there are no further concerns with regard to alterations to archaeological sites for the partial cleared areas of the property (excluding Operation 2).
- 3. That a Stage 3 archaeological assessment be conducted by a licensed archaeologist in the form of a controlled surface pick-up followed by 1m<sup>2</sup> excavation units on a grid. This site dates to before 1870 and so displays cultural heritage value as per Section 1. a., Standard 3.4.2, and is recommended to proceed to a Stage 4. Therefore the Stage 3 testing should be done on a 10 m interval as per Standard 1, Section 3.2.3, as (MTCS 2011), to determine the extent and affinity of the historic site located on Part Lot 28, Operation 2 (BiFu-7) (as illustrated by the area marked in orange on Supplementary Documentation Map 3) as per Sections 3.2.1, 3.2.2, and 3.2.3 (MTCS 2011). Furthermore, as per Standard 1, Section 3.2.3, as (MTCS 2011), an additional 40% infill of the initial grid unit total should be excavated in areas of interest. This site will have a 20 m protective buffer zone, and a 50 m monitoring zone (Supplementary Documentation Map 4).

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## 9.0 Advice on Compliance with Legislation

- a. This report is submitted to the Minister of Tourism and Culture as a condition of licencing in accordance with Part VI of the Ontario Heritage Act, R.S.O. 1990, c 0.18. The report is reviewed to ensure that it complies with the standards and guidelines that are issued by the Minister, and that the archaeological fieldwork and report recommendations ensure the conservation, protection and preservation of the cultural heritage of Ontario. When all matters relating to archaeological sites within the project area of a development proposal have been addressed to the satisfaction of the Ministry of Tourism and Culture, a letter will be issued by the ministry stating that there are no further concerns with regard to alterations to archaeological sites by the proposed development.
- b. It is an offence under Sections 48 and 69 of the Ontario Heritage Act for any party other than a licenced 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 Archaeology Reports referred to in Section 65.1 of the Ontario Heritage Act.
- Should previously undocumented archaeological resources be discovered, they may be a new archaeological site and therefore subject to Section 48 (1) of the Ontario Heritage Act. The proponent or person discovering the archaeological resources must cease alteration of the site immediately and engage a licenced consultant archaeologist to carry out archaeological fieldwork, in compliance with Section 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.

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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## 10.0 Closure

We trust that this report meets your current needs. If you have any questions or we may be of further assistance, please contact the undersigned.

Paterson Group Inc.

Ben Mortimer, M.A., A.P.A. Senior Archaeologist

Nadine Kopp, M.A., A.P., Project Archaeologist

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## 11.0 Bibliography and Sources

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## 12.0 <u>Images</u>



Figure 1: Photo showing field conditions in southern portion of the property prior to pedestrian survey (D001).



Figure 2: Field walking southern portion of property (D010).



Figure 3: Photo showing field conditions in northern field prior to pedestrian survey (D020).



Figure 4: Field walking in northern field, orange flags indicate find spots (D030).

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Figure 5: Tall grasses around barn area in southern section of the property (D015).



Figure 6: Shovel testing through long grasses around the barn area (D052).



Figure 7: Photo showing a drainage ditch near the barn and tall grass area, located to the east of the southern field (D014).



Figure 8: Shovel testing in forested area (D034).

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Figure 9: Excavating 1x1 m unit in forested area on edge of northern field (D039).



Figure 10: 1x1 m unit excavated to subsoil in forested area on edge of northern field (D041).

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Figure 11: Excluded area due to slope greater than 20 degrees towards the creek (D054).

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Figure 12: Edge of excluded area to the north of the study area due to slope greater than 20 degrees (D056).



Figure 13: Thinning flakes and secondary thinning flake of quartzite found in Operation 1.



Figure 14: Representative sample of artifacts found in Operation 2.



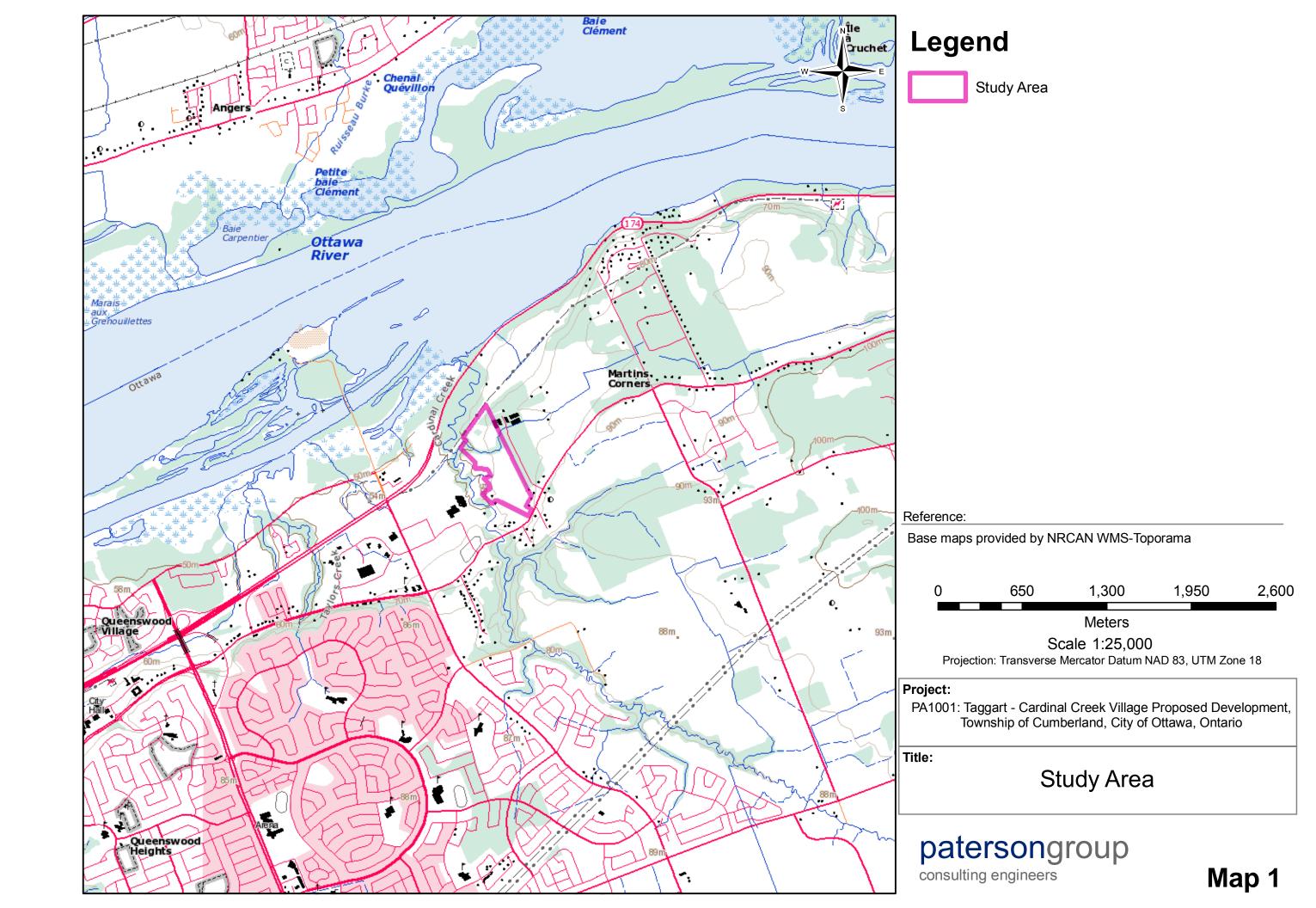
Figure 15: Smoking pipe fragments: plain pipe stem (Operation 1), and bowl with band of raised rectangles and red earthenware pipe stem (Operation 2).

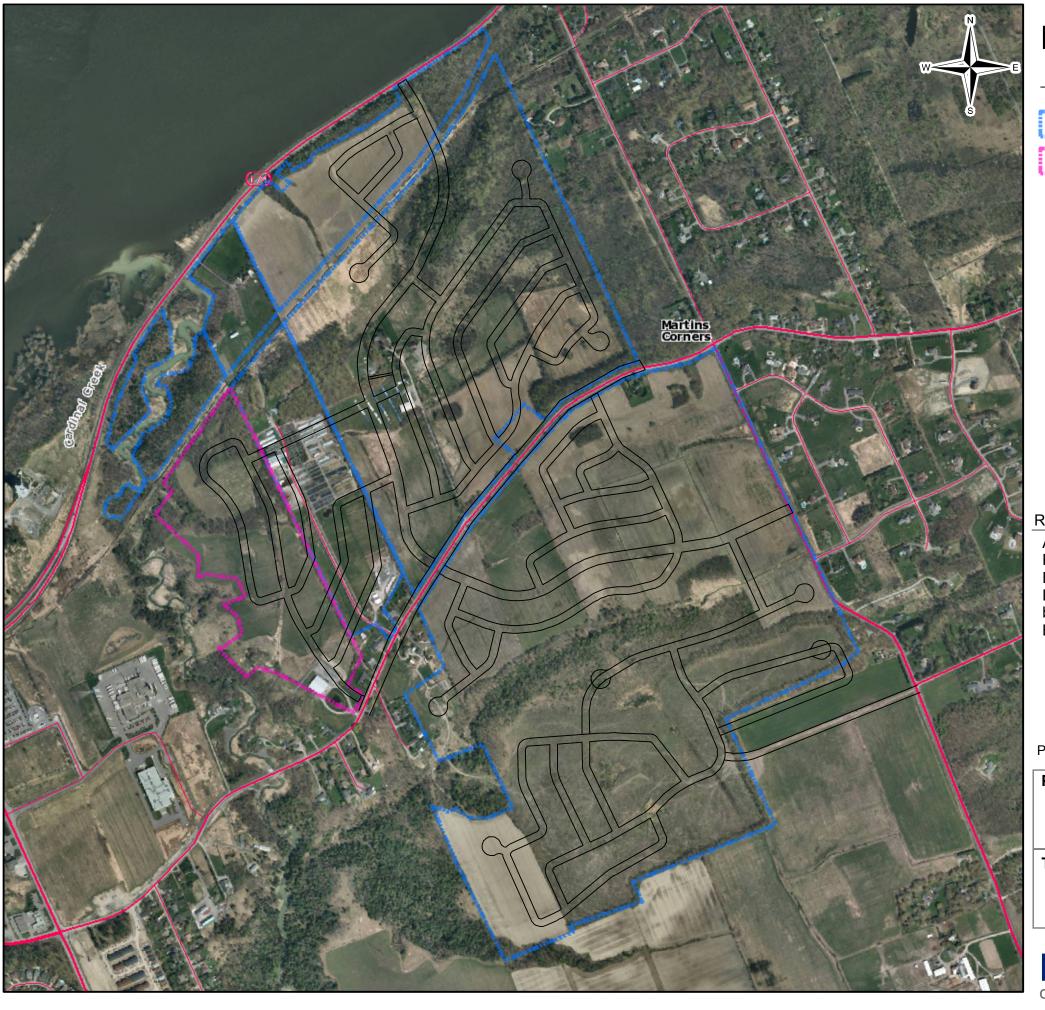
paterson@roup Ottawa Kingston North Bay

Stage 1 and 2 Archaeological Assessment Cardinal Creek Village – Part Lot 28 Ottawa, Ontario

13.0 <u>Maps</u>

Report: PA1001





## Legend

Proposed Roads Other Study Areas



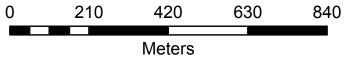
**Current Study Area** 

## Reference:

Air photo circa 2011 provided by DSEL Engineering. Proposed development plan provided by DSEL Engineering.

Development are delineated by Taggart and provided by DSEL Engineering.

Base map from NRCAN WMS-Toporama



Scale 1:10,000

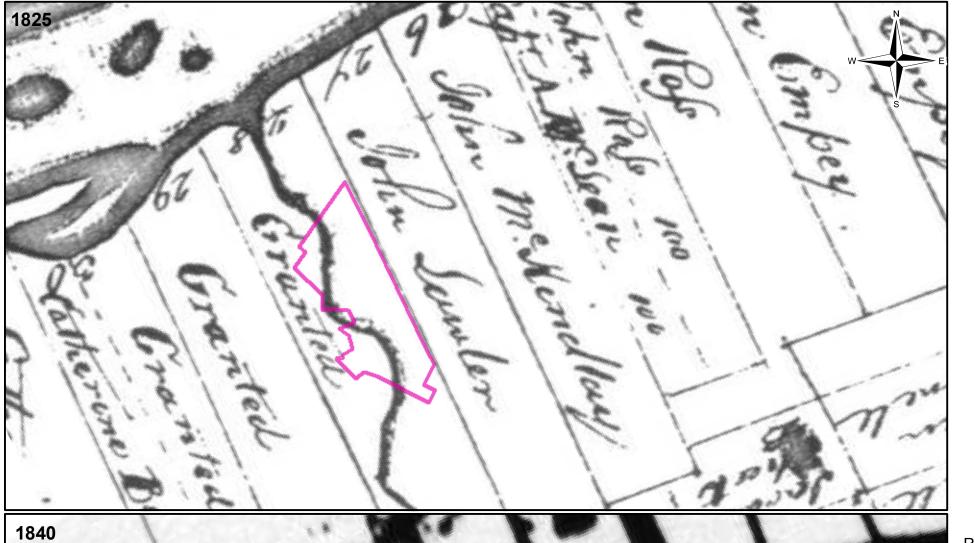
Projection: Transverse Mercator Datum NAD 83, UTM Zone 18

## Project:

PA1001: Taggart - Cardinal Creek Village Proposed Development, Township of Cumberland, City of Ottawa, Ontario

Taggart Proposed Development Plan April 2012

## patersongroup consulting engineers



## Legend



Study Area



Historical Map - Segment of Township of Cumberland, Coffin, 1825 (NMC 3425)

Historical Map - Segment of Assessment Map of Cumberland, 1840 (NAC MS 116)

0 190 380 570 760 Meters

Scale 1:14,690

Projection: Transverse Mercator Datum NAD 83, UTM Zone 18

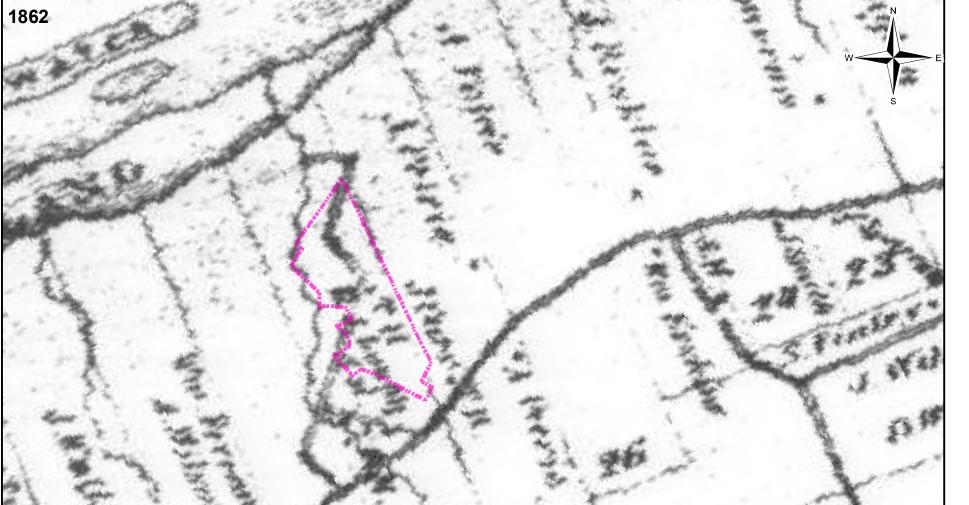
#### Project

PA1001: Taggart - Cardinal Creek Village Proposed Development, Township of Cumberland, City of Ottawa, Ontario

Title:

Georeferenced Historical Maps 1









1881

### <u>eterence:</u>

Historical Map - Segment of Plan of the Counties of Stormont, Dundas, Glengarry, Prescott & Russell, Walling 1862 (NMC 21998).

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0 190 380 570 760 Meters

Scale 1:14,690

Projection: Transverse Mercator Datum NAD 83, UTM Zone 18

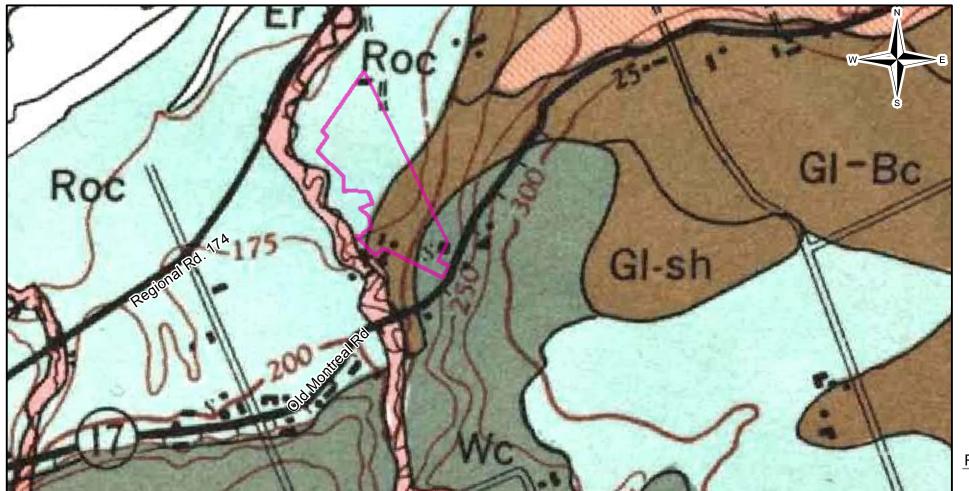
### Project:

PA1001: Taggart - Cardinal Creek Village Proposed Development, Township of Cumberland, City of Ottawa, Ontario

### Title:

Georeferenced Historical Maps 2





# Clay Plains Ottawa Valley Clay Plains Ottawa Valley Clay Plains Linestone Plains

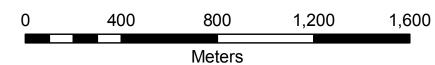
## Legend



See text for description of soil and physiographic area.

### Reference:

Wicklund and Richards 1962 Chapman and Putnam 2007



Scale 1:15,727

Projection: Transverse Mercator Datum NAD 83, UTM Zone 18

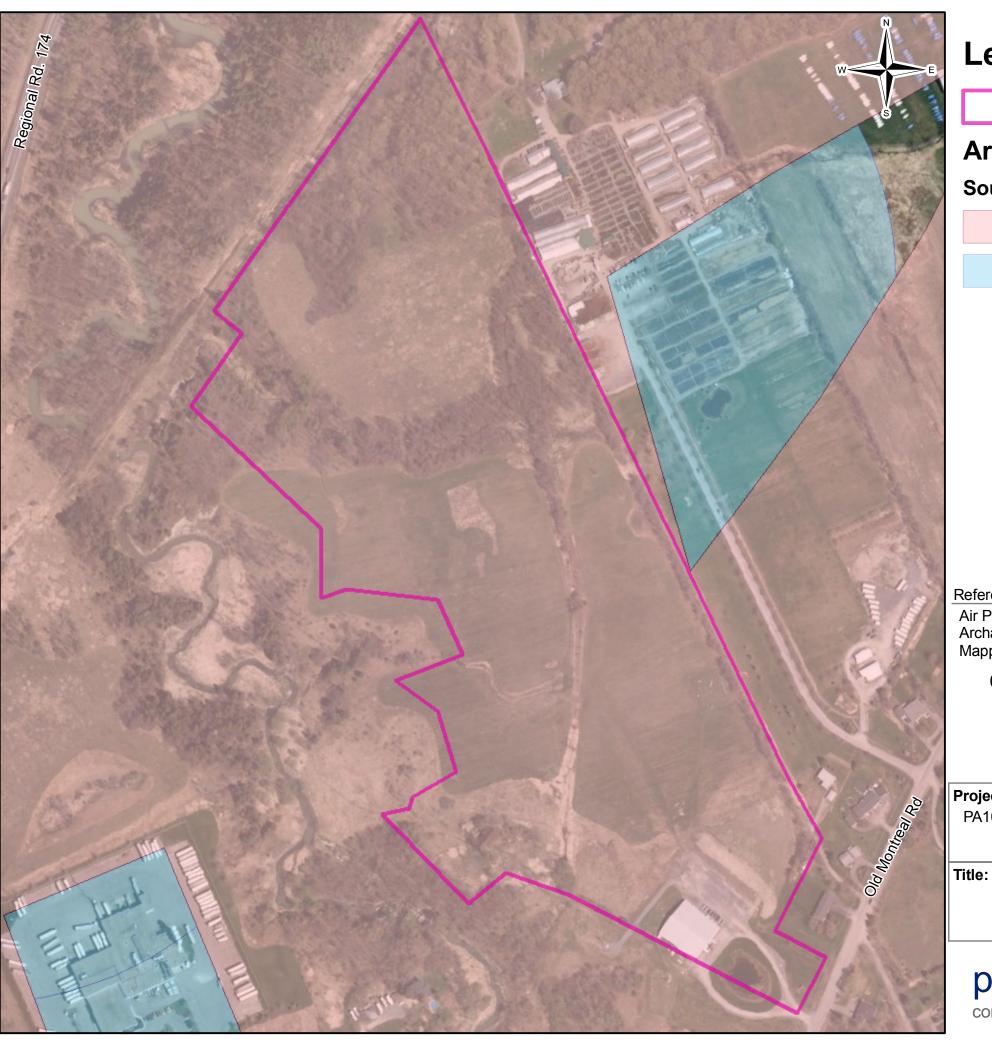
### Project:

PA1001: Taggart - Cardinal Creek Village Proposed Development, Township of Cumberland, City of Ottawa, Ontario

### Title:

Soils and Physiography

# patersongroup consulting engineers



Study Area

# **Archaeological Potential**

### **Source**

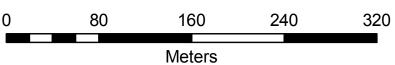
City of Ottawa Master Plan



Within 300m of Watersource

### Reference:

Air Photo circa 2011 provided by DSEL Engineering
Archaeology Potential from The Archaeological Resource Potential
Mapping Study of the Regional Municipality of Ottawa-Carleton



Scale 1:3,265

Projection: Transverse Mercator Datum NAD 83, UTM Zone 18

PA1001: Taggart - Cardinal Creek Village Proposed Development, Township of Cumberland, City of Ottawa, Ontario

**Archaeological Potential** 

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Study Area

Testing\_Strategy

# **Assessment Method**

Shovel Test

Pedestrian



Deeply Disturbed, NOT EXAMINED



Permanently Wet, NOT EXAMINED



Slope > 20 Degrees, NOT EXAMINED



Separate Ownership

### Reference:

Air photo circa 2011 provided by DSEL Engineering

75 225 150 300 Meters Scale 1:3,386

Projection: Transverse Mercator Datum NAD 83, UTM Zone 18

### Project:

PA1001: Taggart - Cardinal Creek Village Proposed Development, Township of Cumberland, City of Ottawa, Ontario

**Assessment Strategy** 

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Map 7



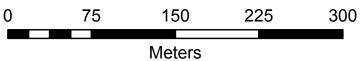
Photo Location and Direction



Study Area

### Reference:

Air photo circa 2011 provided by DSEL Engineering



Scale 1:3,386

Projection: Transverse Mercator Datum NAD 83, UTM Zone 18

### Project:

PA1001: Taggart - Cardinal Creek Village Proposed Development, Township of Cumberland, City of Ottawa, Ontario

Title:

Photo Key

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Stage 1 and 2 Archaeological Assessment
Cardinal Creek Village
Ottawa, Ontario

# Appendix A: Artifact Catalogue

Quantity	1	2	1	1	1	н	1	1	1	2	1
Condition	Incomplete	Incomplete	Incomplete	Incomplete		Incomplete	Incomplete	Incomplete	Complete		
Portion	rim	hody	hody	hроq	neck	base	rim	base			
Primary Diagnostic	Blue transfer	plain	plain	plain		2 Piece bottle mould (hinged base)	plain	Mould blown			
Decorative Colour	blue	translucent	translucent	translucent			translucent				
Decorative Pattern	Willow	plain	plain	plain			plain				
Dec Patterns	Transfer /batt print	generic	generic	generic			generic				
Function Detail	plate /coaster /pat	unspecified	unspecified	plate /coaster /pat	bottle	pharmaceutical / toiletry bottle	unspecified	pharmaceutical / toiletry bottle	buckle	flake	flake
Function	Plate unspecified	Tableware unspecified	Tableware unspecified	Plate unspecified	Wine bottle	Panel bottle	Tableware unspecified	Panel bottle	Buckle	Thinning flake	Secondary thinning flake
Material	Refined White Earthenware	Refined White Earthenware	Refined White Earthenware	Refined White Earthenware	Green Glass (dark olive)	Blue/Green Glass (aqua)	Refined White Earthenware	Blue/Green Glass (aqua)	Iron	Quartzite	Quartzite
Rec. Number	32	37	38	35	150	34	33	141	142	25	26
Provenience	1a6	1b3	1b4	1e1	1f1	181	1g1	1h1	1h1	1j1	1j1
Project	PA1001	PA1001	PA1001	PA1001	PA1001	PA1001	PA1001	PA1001	PA1001	PA1001	PA1001

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Stage 1 and 2 Archaeological Assessment Cardinal Creek Village Ottawa, Ontario

Quantity	$\leftarrow$	$\leftarrow$	$\leftarrow$	₩	1	2	$\leftarrow$	н	П	1	2	2	1
Condition	Incomplete	Incomplete	incomplete	Incomplete	Incomplete	Incomplete	Incomplete	Incomplete	Incomplete	Incomplete	Incomplete	Incomplete	Incomplete
Portion	body	body	handle	bowl body	rim	body	rii	body	hody	stem	hody	body	hody
Primary Diagnostic	Blue painted	Plain	plain		Lithograph	plain	Blue transfer	Mould blown				plain	Blue transfer
<b>Decorative</b> <b>Colour</b>	blue	translucent	translucent		pink	translucent	blue					translucent	blue
Decorative Pattern	Painted unspecified	Plain	plain	plain	flowers	plain	Willow					plain	Willow
Dec Patterns	painted	generic	generic	generic	lithograph	generic	Transfer /batt print					generic	Transfer /batt print
Function Detail	unspecified	plate /coaster /pat	unspecified	pipe	cup /saucer	unspecified	plate /coaster /pat	unidentified	unidentified	pipe	pharmaceutical / toiletry bottle	plate /coaster /pat	plate /coaster /pat
Function	Tableware unspecified	Plate unspecified	Handle / knob unspecified	Smoking pipe	Teacup	Tableware unspecified	Plate unspecified	Bottle unidentified	Bottle unidentified	Smoking pipe	Panel bottle	Plate unspecified	Plate unspecified
Material	Refined White Earthenware	Vitrified White Earthenware	Vitrified White Earthenware	White Clay	Porcelain unspecified	Refined White Earthenware	Refined White Earthenware	Blue/Green Glass (aqua)	Colourless Glass	White Clay	Blue Glass	Refined White Earthenware	Refined White Earthenware
Rec. Number	39	23	24	36	31	30	172	174	173	175	176	164	166
Provenience	1j1	1j1	1j1	1k1	1m1	1m1	1n1	1n2	1n2	1n2	1n3	2a1	2a1
Project	PA1001	PA1001	PA1001	PA1001	PA1001	PA1001	PA1001	PA1001	PA1001	PA1001	PA1001	PA1001	PA1001



Stage 1 and 2 Archaeological Assessment Cardinal Creek Village Ottawa, Ontario

Cardinal Creek Village Ottawa, Ontario

Provenience	Rec.	Material	Function	Function Detail	Dec Patterns	Decorative	Decorative	Primary	Portion	Condition	Quantity
	168	Refined White Earthenware	Plate unspecified	plate /coaster /pat	generic	plain	translucent	plain	hody	Incomplete	11
	165	Refined White Earthenware	Plate unspecified	plate /coaster /pat	generic	plain	translucent	plain	footring	Incomplete	11
	154	Blue/Green Glass (aqua)	Bottle unidentified	unidentified					урод	Incomplete	1
	152	Coarse Earthenware buff	Holloware	holloware	generic	plain	translucent		rim	Exfoliated	1
	151	Refined White Earthenware	Plate unspecified	plate /coaster /pat	Sponged /stamped	Sponged	blue	Sponged /stamped	урод	Incomplete	2
	153	White Glass opaque (milk)	Bottle unidentified	unidentified					урод	Incomplete	П
	167	Refined White Earthenware	plate	unspecified materials	generic	plain	translucent	plain	rim	Incomplete	1
	10	Refined White Earthenware	Tableware unspecified	unspecified	Sponged /stamped	Sponged	Blue	Sponged /stamped	rim	Incomplete	2
	6	Refined White Earthenware	Tableware unspecified	unspecified	Sponged /stamped	Stamped	blue	Sponged /stamped	hody	Incomplete	П
	12	White Clay	Smoking pipe	pipe	pipe bowl	Band of raised rectangles			bowl body	Incomplete	П
	11	Yelloware	Holloware	holloware	generic	Plain	translucent		rim	Incomplete	1

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Stage 1 and 2 Archaeological Assessment Cardinal Creek Village Ottawa, Ontario

Quantity	1	1	П	2	Н	1	П	1	П	Ţ
Condition	Incomplete	Incomplete	Incomplete	Incomplete	Incomplete	Incomplete	Incomplete	Complete	Incomplete	Incomplete
Portion	footring	rim	hood	hody	hody	rim	hood		base	rim
Primary Diagnostic	plain	Edged blue	Other transfer (1st group/ black, dk brown, red)	Blue transfer	Blue transfer	Edged blue	Other transfer (1st group/ black, dk brown, red)	4 hole	Moulded	edged blue
Decorative Colour	translucent	blue	brown	blue	blue	blue	brown			blue
Decorative Pattern	plain	Scalloped rim	Unspecified Transfer	Unspecified Transfer	Willow	Unscalloped with lt. Impressed pattern	Unspecified Transfer			Even scalloped /impressed pattern
Dec Patterns	generic	moulded	Transfer /batt print	Transfer /batt print	Transfer /batt print	pedpe	Transfer /batt print			edged
Function Detail	bowl	plate /coaster /pat	cup /saucer	unspecified	plate /coaster /pat	plate /coaster /pat	unspecified	button	bottle	plate /coaster /pat
Function	Bowl unspecified	Plate unspecified	saucer	Tableware unspecified	Plate unspecified	Plate unspecified	Tableware unspecified	Button	Case bottle	Plate unspecified
Material	Refined White Earthenware	Refined White Earthenware	Refined White Earthenware	Refined White Earthenware	Refined White Earthenware	Refined White Earthenware	Refined White Earthenware	shell	Green Glass (dark olive)	Refined White Earthenware
Rec. Number	69	89	99	29	65	51	50	52	77	73
Provenience	2b10	2b10	2b10	2b10	2b10	2b11	2b11	2b11	2b12	2b12
Project	PA1001	PA1001	PA1001	PA1001	PA1001	PA1001	PA1001	PA1001	PA1001	PA1001



Stage 1 and 2 Archaeological Assessment
Cardinal Creek Village
Ottawa, Ontario

Quantity	н	Τ.	П	П	П	11	1	1
Condition	Incomplete	Incomplete	Incomplete	Incomplete	Incomplete	Incomplete	Incomplete	Incomplete
Portion	body	rim	rim	rim	rim	rim	уbod	hody
Primary Diagnostic	Sponged /stamped	Edged blue	Other transfer (1st group/ black, dk brown, red)	Other transfer (1st group/ black, dk brown, red)	Blue transfer	Blue transfer	Blue transfer	Other transfer (1st group/ black, dk brown, red)
Decorative Colour	black	blue	brown	red	blue	blue	blue	brown
Decorative Pattern	Sponged	Unscalloped with lt. Impressed pattern	Unspecified Transfer	Unspecified Transfer	Unspecified Transfer	Willow	Unspecified Transfer	Unspecified Transfer
Dec Patterns	Sponged /stamped	pegpe	Transfer /batt print	Transfer /batt print	Transfer /batt print	Transfer /batt print	Transfer /batt print	Transfer /batt print
Function Detail	plate /coaster /pat	plate /coaster /pat	plate /coaster /pat	plate /coaster /pat	plate /coaster /pat	plate /coaster /pat	plate /coaster /pat	plate /coaster /pat
Function	Plate unspecified	Plate unspecified	Plate unspecified	Plate unspecified	Plate unspecified	Plate unspecified	Plate unspecified	Plate unspecified
Material	Refined White Earthenware	Refined White Earthenware	Refined White Earthenware	Refined White Earthenware	Refined White Earthenware	Refined White Earthenware	Refined White Earthenware	Refined White Earthenware
Rec. Number	71	92	72	74	75	70	47	49
Provenience	2b12	2b12	2b12	2b12	2b12	2b12	2b13	2b13
Project	PA1001	PA1001	PA1001	PA1001	PA1001	PA1001	PA1001	PA1001



Stage 1 and 2 Archaeological Assessment Cardinal Creek Village Ottawa, Ontario

Quantity	1	2	11	1	1	П	П	1	П
Condition	Incomplete	Incomplete	incomplete	Incomplete	Incomplete	Incomplete	Incomplete	Incomplete	Incomplete
Portion	λpoq	body	footring	rim	rim	footring	body	rim	rim
Primary Diagnostic	Blue transfer	Blue transfer	Sponged /stamped	Edged blue	Blue transfer	Blue transfer	Painted	Edged blue	Other transfer (2nd series/lt. green blue brown purple
Decorative Colour	plue	blue	black	Blue	blue	blue	green	blue	purple
Decorative Pattern	Willow	Willow	Sponged	unscalloped with lt. Impressed pattern	Unspecified Transfer	Willow	Painted unspecified	Unscalloped with It. Impressed pattern	Unspecified Transfer
Dec Patterns	Transfer /batt print	Transfer /batt print	Sponged /stamped	pagpa	Transfer /batt print	Transfer /batt print	painted	pagpa	Transfer /batt print
Function Detail	bowl	bowl	cup /saucer	plate /coaster /pat	holloware	cup /saucer	plate /coaster /pat	plate /coaster /pat	cup /saucer
Function	Bowl unspecified	Bowl unspecified	Saucer	Plate unspecified	Holloware	Saucer	Plate unspecified	Plate unspecified	saucer
Material	Refined White Earthenware	Refined White Earthenware	Refined White Earthenware	Refined White Earthenware	Refined White Earthenware	Refined White Earthenware	Refined White Earthenware	Refined White Earthenware	Refined White Earthenware
Rec. Number	48	46	45	1	2	æ	56	28	55
Provenience	2b13	2b14	2b15	2816	2816	2816	2b2	262	262
Project	PA1001	PA1001	PA1001	PA1001	PA1001	PA1001	PA1001	PA1001	PA1001



Stage 1 and 2 Archaeological Assessment
Cardinal Creek Village
Ottawa, Ontario

Quantity	₩	₽	₩	₩	4	₩	₩	₩	₩	2
Condition	Incomplete	incomplete	Incomplete	Incomplete	incomplete	Incomplete	Incomplete	Incomplete	Incomplete	Incomplete
Portion	hody	rim	rim	hody	hody	stem	hody	hody	rim	hood
Primary Diagnostic	Blue transfer	Painted blue	Painted	Sponged /stamped	Blue transfer		plain	Sponged /stamped	Sponged /stamped	Other transfer (1st group/ black, dk brown, red)
<b>Decorative</b> <b>Colour</b>	blue	blue	red	blue	blue		translucent	black	blue	brown
Decorative Pattern	Unspecified Transfer	Floral	Floral	Sponged	Unspecified Transfer		plain	Sponged	Sponged	Unspecified Transfer
Dec Patterns	Transfer /batt print	painted	painted	Sponged /stamped	Transfer /batt print		generic	Sponged /stamped	Sponged /stamped	Transfer /batt print
Function Detail	plate /coaster /pat	cup /saucer	cup /saucer	bowl	plate /coaster /pat	pipe	unspecified	plate /coaster /pat	cup /saucer	unspecified
Function	Plate unspecified	Teacup	saucer	Bowl unspecified	Plate unspecified	Smoking pipe	Tableware unspecified	Plate unspecified	Cup unspecified	Tableware unspecified
Material	Refined White Earthenware	Refined White Earthenware	Refined White Earthenware	Refined White Earthenware	Refined White Earthenware	Coarse Earthenware red	Refined White Earthenware	Refined White Earthenware	Refined White Earthenware	Refined White Earthenware
Rec. Number	57	63	64	62	61	84	81	78	80	79
Provenience	2b2	2b3	2b3	2b3	2b3	2b4	2b4	2b4	2b4	264
Project	PA1001	PA1001	PA1001	PA1001	PA1001	PA1001	PA1001	PA1001	PA1001	PA1001



Stage 1 and 2 Archaeological Assessment Cardinal Creek Village Ottawa, Ontario

		1	1	1	1		1	ı	1
Quantity	ε	ε	Π	П	П	1	Н	1	1
Condition	incomplete	Incomplete	Incomplete	Incomplete	Burned / Melted	Incomplete	Incomplete	Incomplete	Incomplete
Portion	rim	body	rim	body	rim	footring	rim	rim	rim
Primary Diagnostic	Blue transfer	Blue transfer	Industrial slip	moulded	plain	Plain	Edged blue	Edged blue	Other transfer (1st group/ black, dk brown, red)
Decorative Colour	blue	blue	brown		translucent	translucent	blue	blue	brown
Decorative Pattern	Unspecified Transfer	Willow	Banded	Moulded	plain	plain	Unmoulded unscalloped rim	Unscalloped with It. Impressed pattern	Unspecified
Dec Patterns	Transfer /batt print	Transfer /batt print	industrial slip	Ceramic / Glass	generic	generic	edged	pagpa	Transfer /batt print
Function Detail	cup /saucer	plate /coaster /pat	holloware	cup /saucer	pot	bowl	plate /coaster /pat	plate /coaster /pat	holloware
Function	saucer	Plate unspecified	Holloware	Teacup	Pot unspecified  _	Bowl unspecified	Plate unspecified	Plate unspecified	Holloware
Material	Refined White Earthenware	Refined White Earthenware							
Rec. Number	82	83	103	104	101	105	107	106	100
Provenience	2b4	2b4	2b5	2b5	2b5	2b5	2b5	2b5	2b5
Project	PA1001	PA1001							



Stage 1 and 2 Archaeological Assessment Cardinal Creek Village Ottawa, Ontario

Quantity	н	1	П	1	П	2	П	П	П	н	1
Condition	Incomplete	Incomplete	Incomplete	incomplete	Incomplete	Incomplete	incomplete	Incomplete	Incomplete	Incomplete	Incomplete
Portion	body	body	rim		body	rim	body	footring	rim	footring	body
Primary Diagnostic	Other transfer (1st group/ black, dk brown, red)	Blue transfer	Blue transfer					Blue painted	Blue painted	Plain	Sponged /stamped
Decorative Colour	black	blue	blue				blue	blue	blue	translucent	Blue, light
Decorative Pattern	Unspecified Transfer	Unspecified Transfer	Unspecified Transfer		Moulded		Moulded unspecified	Painted unspecified	Painted unspecified	Plain	Sponged
Dec Patterns	Transfer /batt print	Transfer /batt print	Transfer /batt print		Ceramic / Glass		moulded	painted	painted	generic	Sponged /stamped
Function Detail	cup /saucer	plate /coaster /pat	plate /coaster /pat	writing	unspecified	pan	unspecified	bowl	plate /coaster /pat	unspecified	unspecified
Function	Cup unspecified	Plate unspecified	Plate unspecified	Writing item	Tableware unspecified	Milk pan	Tableware unspecified	Bowl unspecified	Plate unspecified	Tableware unspecified	Tableware unspecified
Material	Refined White Earthenware	Refined White Earthenware	Refined White Earthenware	slate	Vitrified White Earthenware	Coarse Earthenware red	Refined White Earthenware	Refined White Earthenware	Refined White Earthenware	Refined White Earthenware	Refined White Earthenware
Rec. Number	102	108	109	111	110	22	20	16	17	19	18
Provenience	265	2b5	2b5	2b5	2b5	2b6	2b6	2b6	2b6	2b6	2b6
Project	PA1001	PA1001	PA1001	PA1001	PA1001	PA1001	PA1001	PA1001	PA1001	PA1001	PA1001



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Quantity	1	1	1	С	2	1	1	1	1	5
Condition	Incomplete	Incomplete	Incomplete	Incomplete	Incomplete	Incomplete	Incomplete	Incomplete	Incomplete	Incomplete
Portion	rim	rim	hody	rim	hody	footring	hody	hody	rim	body
Primary Diagnostic	Edged blue	Blue transfer	Blue transfer		Industrial slip	Blue transfer	Painted	Painted	Painted	plain
Decorative Colour	blue	blue	blue	blue	blue	blue	blue	green	blue	translucent
Decorative Pattern	Unscalloped with It. Impressed pattern	Unspecified Transfer	Unspecified Transfer	Willow	Cable	Floral generic	Painted unspecified	Painted unspecified	Painted unspecified	Plain
Dec Patterns	pagpa	Transfer /batt print	Transfer /batt print	Transfer /batt print	industrial slip	painted	painted	painted	painted	generic
Function Detail	unspecified	cup /saucer	unspecified	plate /coaster /pat	holloware	plate /coaster /pat	cup /saucer	plate /coaster /pat	plate /coaster /pat	plate /coaster /pat
Function	Tableware unspecified	Cup unspecified	Tableware unspecified	Plate unspecified	Holloware	Plate unspecified	Teacup	Plate unspecified	Plate unspecified	Plate unspecified
Material	Refined White Earthenware	Refined White Earthenware	Refined White Earthenware	Refined White Earthenware	Refined White Earthenware	Refined White Earthenware	Refined White Earthenware	Refined White Earthenware	Refined White Earthenware	Refined White Earthenware
Rec. Number	21	14	15	13	128	121	117	126	127	115
Provenience	2b6	2b6	2b6	2b6	2b7	2b7	2b7	2b7	2b7	2b7
Project	PA1001	PA1001	PA1001	PA1001	PA1001	PA1001	PA1001	PA1001	PA1001	PA1001



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Project	Provenience	Rec.	Material	Function	Function Detail	Dec Patterns	Decorative	Decorative	Primary	Portion	Condition	Quantity
		Number					Pattern	Colour	Diagnostic			
PA1001	267	116	Refined White Earthenware	Bowl /individual service	lwod	generic	Plain	translucent	plain	footring	Incomplete	1
PA1001	2b7	123	Refined White Earthenware	Plate unspecified	plate /coaster /pat	moulded	Scalloped rim	blue	Edged blue	rii	Incomplete	2
PA1001	2b7	112	Refined White Earthenware	Bowl /individual service	bowl	Sponged /stamped	Sponged	blue	Sponged /stamped	body	Incomplete	П
PA1001	267	113	Refined White Earthenware	Plate unspecified	plate /coaster /pat	Sponged /stamped	Stamped	blue	Sponged /stamped	body	Incomplete	2
PA1001	267	114	Refined White Earthenware	Plate unspecified	plate /coaster /pat	Sponged /stamped	Stamped	black	Sponged /stamped	body	Incomplete	2
PA1001	287	122	Refined White Earthenware	Plate unspecified	plate /coaster /pat	pegpe	Unmoulded unscalloped rim	blue	Edged blue	rin	Incomplete	4
PA1001	2b7	119	Refined White Earthenware	Tableware unspecified	unspecified	Transfer /batt print	Unspecified Transfer	blue	Blue transfer	body	Incomplete	н
PA1001	267	120	Refined White Earthenware	Teacup	cup /saucer	Transfer /batt print	Unspecified Transfer	blue	Blue transfer	body	Incomplete	П
PA1001	267	125	Refined White Earthenware	Plate unspecified	plate /coaster /pat	Transfer /batt print	Unspecified Transfer	purple	Other transfer (1st group/ black, dk brown, red)	rim	Incomplete	ī
PA1001	267	118	Refined White Earthenware	Plate unspecified	plate /coaster /pat	Transfer /batt print	Willow	blue	Blue transfer	rim	Incomplete	ε
PA1001	267	124	Yelloware	Holloware	holloware	generic	plain	translucent		rim	Incomplete	1

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	1	1	T	I		T	· · · · · · · · · · · · · · · · · · ·	- 1		1
Quantity	1	ε	7	e e	₽	1	2	2	7 1	1
Condition	Incomplete	Incomplete	incomplete	Incomplete		Incomplete	Incomplete		Incomplete	incomplete
Portion	hody	hody	hood	hody		hpoq	броq		hody	rim
Primary Diagnostic	Sponged /stamped	Blue transfer	Other transfer (1st group/ black, dk brown, red)	Blue transfer		Other transfer (1st group/ black, dk brown, red)	Plain		plain	Blue transfer
Decorative Colour	black	blue	black	blue		red	translucent		translucent	blue
Decorative Pattern	Sponged	Willow	Unspecified Transfer	Willow		Unspecified Transfer	plain		plain	Unspecified Transfer
Dec Patterns	Sponged /stamped	Transfer /batt print	Transfer /batt print	Transfer /batt print		Transfer /batt print	generic		generic	Transfer /batt print
Function Detail	plate /coaster /pat	plate /coaster /pat	unspecified	plate /coaster /pat	miscellaneous door / window	unspecified	plate /coaster /pat	bone	bone unspecified	unspecified
Function	Plate unspecified	Plate unspecified	Tableware unspecified	Plate unspecified	Hardware	Tableware unspecified	Plate unspecified	Mammal bone	Mammal bone Tableware unspecified	Tableware unspecified
Material	Refined White Earthenware	Refined White Earthenware	Refined White Earthenware	Refined White Earthenware	Iron	Refined White Earthenware	Refined White Earthenware	bone	Bone Refined White Earthenware	Refined White Earthenware
Rec. Number	53	54	09	59	177	29	44	43	40	41
Provenience	2b8	2b8	2b9	2b9	2c1	2c1	2c2	2c3	2c4 2c4	2c4
Project	PA1001	PA1001	PA1001	PA1001	PA1001	PA1001	PA1001	PA1001	PA1001	PA1001



# Appendix B: Photographic Catalogue

Catalogue	Prov.	Lot	Con	Subject	Dir	Latitude	Longitude	Photographer
Number								
PA1001-D001		28	1	Field conditions in south field	ΜN	75°28'10.47"	45°29'44.79"	BM
PA1001-D002		28	1	Field conditions in south field	Ν	75°28'10.47"	45°29'44.79"	BM
PA1001-D003		28	1	Field conditions in south field	NE	75°28'10.47"	45°29'44.79"	BM
PA1001-D004		28	_	Field conditions in south field	NE	75°28'10.47"	45°29'44.79"	BM
PA1001-D005		28	1	Field conditions in south field	N	75°28'10.47"	45°29'44.79"	BM
PA1001-D006		28	1	Field conditions in south field	SE	45°29'47.64"	75°28'8.52"	BM
PA1001-D007		28	_	Pedestrian survey in south field	SE	45°29'47.01"	75°28'12.67"	BM
PA1001-D008		28	_	Pedestrian survey in south field	SE	45°29'47.15"	75°28'12.75"	BM
PA1001-D009		28	_	Pedestrian survey in south field	z	45°29'46.18"	75°28'14.87"	BM
PA1001-D010		28	_	Pedestrian survey in south field	Ν	45°29'46.21"	75°28'14.87"	BM
PA1001-D013		28	1	Drainage ditch near tall grassy area around barn	S	45°29'42.79"	75°28'12.21"	BM
PA1001-D014		28	1	Drainage ditch near tall grassy area around barn	S	45°29'42.79"	75°28'12.37"	BM
PA1001-D015		28	1	Tall grassy area looking towards barn	Ν	45°29'43.59"	75°28'14.57"	BM
PA1001-D016		28	_	Looking towards south field from tall grassy area near barn	ш	45°29'43.68"	75°28'14.57"	BM
PA1001-D017		28	1	Field conditions in north field	NE	45°29'49.37"	75°28'19.47"	BM
PA1001-D018		28	_	Field conditions in north field	z	45°29'49.67"	75°28'19.54"	BM
PA1001-D019		28	1	Field conditions in north field	z	45°29'49.83"	75°28'19.58"	BM
PA1001-D020		28	1	Field conditions in north field	SE	45°29'55.45"	75°28'21.5"	BM
PA1001-D021		28	1	Field conditions in north field	SE	45°29'55.49"	75°28'21.54"	BM
PA1001-D022		28	1	Field conditions in north field	S	45°30'0.05"	75°28'26.77"	BM
PA1001-D023		28	1	Field conditions in north field	SE	45°30'0.52"	75°28'17.44"	BM
PA1001-D024		28	1	Pedestrian survey in north field	SE	45°29'59.89"	75°28'17.34"	BM
PA1001-D025		28	1	Pedestrian survey in north field	SE	45°29'59.89"	75°28'17.34"	BM
PA1001-D026	PA1001-	28	1	Looking towards operation 2 in north field	NE	45°29'57.94"	75°28'18.55"	BM
	2							
PA1001-D027	PA1001- 2	28	Н	Looking towards operation 2 in north field	N	45°29'58.16"	75°28'18.76"	BM
PA1001-D028	PA1001- 2	28	Т	Looking towards operation 2 in north field with find spots marked with orange flags	SE	45°29'58"	75°28'19.28"	BM
PA1001-D029	PA1001-	28	1	Intensification of pedestrian survey around operation 2	SE	45°29'58"	75°28'19.28"	BM

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Catalogue Number	Prov.	Pot	Con	Subject	ä	Latitude	Longitude	Photographer
	2							
PA1001-D030		28	1	Pedestrian survey of north field, orange flags mark find spots	SE	45°29'58"	75°28'19.28"	BM
PA1001-D031	PA1001- 2	28	Н	Intensification of pedestrian survey around operation 2	SE	45°29'58"	75°28'19.27"	BM
PA1001-D032		28	1	N. Kopp shovel testing in lightly wooded area	N N	45°29'54.66"	75°28'19.97"	BM
PA1001-D033		28	1	M. Lapensée-Paquette on edge of lightly wooded area	NE	45°29'54.66"	75°28'19.97"	BM
PA1001-D034		28	1	Shovel testing in lightly forested area	N N	45°29'54.66"	75°28'19.97"	BM
PA1001-D035		28	1	Shovel testing in lightly forested area	Ν	45°29'54.64"	75°28'19.93"	BM
PA1001-D036		56	1	Shovel testing along edge of field	SE	45°29'55.66"	75°28'19.43"	BM
PA1001-D037		28	1	Typical test pit	Ω	45°29'58.19"	75°28'17.62"	BM
PA1001-D038		28	Т	typical test pit	۵	45°29'58.21"	75°28'17.59"	BM
PA1001-D039		28	П	Excavating 1x1 unit near operation 2	≷	45°29'56.29"	75°28'17.65"	BM
PA1001-D040		28	1	Excavating 1x1 near operation 2	≥	45°29'56.29"	75°28'17.65"	BM
PA1001-D041		28	1	1x1 unit near operation 2	≥	45°29'56.26"	75°28'17.69"	BM
PA1001-D042		28	1	1x1 unit near operation 2	≥	45°29'56.26"	75°28'17.69"	BM
PA1001-D043		28	1	Typical test pit	Ω	45°29'49.73"	75°28'8.87"	BM
PA1001-D044		28	1	Typical test pit	Ω	45°29'49.71"	75°28'8.87"	BM
PA1001-D045		28	1	Shovel testing on edge of southern field	ш	45°29'52.43"	75°27'55.32"	BM
PA1001-D046		28	1	C. Pechie shovel testing area	z	45°29'52.55"	75°27'56.11"	BM
PA1001-D047		28	1	Shovel testing on edge of southern field	≥	45°29'52.52"	75°27'55.21"	BM
PA1001-D048		28	П	Testing in long grasses near barn area	S	45°29'44.2"	75°28'14.95"	BM
PA1001-D049		28	П	Long grasses near barn area	S	45°29'44.11"	75°28'15.02"	BM
PA1001-D050		28	1	Shovel testing in tall grassy area	SW	45°29'44.07"	75°28'15.06"	BM
PA1001-D051		28	1	Inside of the barn	≥	45°29'43.69"	75°28'18.52"	BM
PA1001-D052		28	1	Shovel testing in tall grasses near barn	S	45°29'45.61"	75°28'15.26"	BM
PA1001-D053		28	1	Shovel testing in lightly wooded area to the north of the	≥	45°30'3.54"	75°28'18.59"	BM
				property on edge of the ridge				
PA1001-D054		28	П	Steep slope down to creek	SW	45°29'57.16"	75°28'25.4"	BM
PA1001-D055		28	П	Steep slope towards creek	SW	45°29'57.16"	75°28'25.4"	BM
PA1001-D056		28	П	Shovel testing on edge of steep slope	NE	45°29'57.04"	75°28'25.41"	BM
PA1001-D057		28	1	Lightly forested area on edge of steep slope towards creek	Ν	45°29'57.05"	75°28'25.41"	BM

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Catalogue Number	Prov. Lot Con	Pot	Con	Subject	Ä	Latitude	Longitude	Dir Latitude Longitude Photographer
PA1001-D058		28	1	Steeply sloping area	z	45°29'54.97"	N 45°29'54.97" 75°28'29.16" BM	BM
PA1001-D059		28 1	1	Shovel testing through lightly wooded area in central section	SE	45°29'55"	SE 45°29'55" 75°28'29.13" BM	BM
				between north and south field				



Appendix C: Map Catalogue

Map Number	Description	Created By
_	Study Area	B. Mortimer
2	Taggart Proposed Development Plan April 2012	B. Mortimer
8	Georeferenced Historical Maps 1	B. Mortimer
4	Georeferenced Historical Maps 2	B. Mortimer
2	Soils and Physiology	B. Mortimer
9	Photo Key	B. Mortimer
7	Assessment Strategy	B. Mortimer

Appendix D: Document Catalogue

Project	Description	Created By
PA1007	Cardinal Creek Part Lot 28 Field Notes Stage 2 (scanned to PDF B. Mortimer	B. Mortimer
	"PA1001 - Tagart Cardinal Creek Part Lot 28 - Field Notes.pdf")	