TURNING THE FIRST MILLENNIUM: THE ARCHAEOLOGY OF THE HOLMEDALE SITE (AgHb-191) A PRINCESS POINT SETTLEMENT ON THE GRAND RIVER

Edited by

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THE HOLMEDALE SITE (AgHb-191): A SETTLEMENT ON THE GRAND RIVER

STAGE 4 REPORT ON SALVAGE EXCAVATION OF THE HOLMEDALE WATER TREATMENT PLANT UPGRADE, BRANTFORD PUBLIC UTILITIES COMMISSION, CITY OF BRANTFORD, ONTARIO

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Fronticepiece: Vessel 32 from Feature 8, Holmedale (AgHb-191) Site (illustration by A. Clish)

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CHAPTER 1: INTRODUCTION

by Robert H. Pihl and David A. Robertson

1.1 Background to the Holmedale Site

The Transitional Woodland period Holmedale (AgHb-191) site was discovered in the early summer of 1996, during the course of a Stage 1-2 archaeological resource assessment of a 2.5 ha. property situated adjacent to the Holmedale Water Treatment Plant in the City of Brantford (Figures 1.1 & 1.2). This work, which was completed by Archaeological Services Inc. (ASI) on behalf of Proctor & Redfern Limited and the City of Brantford Public Utilities Commission, was necessitated by proposed upgrades to the existing water treatment plant facilities on the property (ASI 1996).

The site was situated on the central, east section of the study area occupying an area to be impacted by the construction of two proposed storage lagoons (Figure 1.3). Once the site was discovered, a Stage 3 assessment was undertaken to establish its full extent and character. The south side of the site rested on a ridge overlooking an elongated depression or swale. This 30 metre wide swale had apparently been disturbed earlier this century to accommodate the placement of water pipes. Indeed, most testpits within the swale lacked topsoil.

Artifacts were recovered from a total of 50 testpits distributed over approximately 0.5 hectares. The material recovered included 34 lithic fragments, 82 ceramic vessel fragments including cord-wrapped stick decorated neck sherds and paddle marked body sherds, a groundstone fragment, a faceted ceramic pipe stem fragment and four animal bone fragments (1996: Appendix B, Tables 1-4). The single rim sherd to be recovered bore cord-wrapped stick impressions characteristic of the Princess Point complex which dates to the Transitional Woodland period, ca. A.D. 500-1100. One of the lithic artifacts collected was identified as a probable Levanna point base contemporary with the rim sherd and other ceramic fragments.

Based on these preliminary findings, it was determined that the Holmedale site was a rare and significant component of the Transitional Woodland (1996: 6), and it was recommended that a Stage 4 archaeological mitigation be conducted prior to impact caused by construction of the water treatment plant upgrade. These excavations were subsequently approved by the City of Brantford Public Utilities Commission and undertaken by ASI between July 30-October 25, 1996.

1.2 Investigating the Holmedale Site

Based on the results of the Stage 3 archaeological resource assessment, a five metre excavation grid was established on the site, and 51 1 m² test squares were hand excavated at 5-10 metre intervals across the site between July 30 and August 30, 1996 (Figure 1.4). All soil was screened through six millimetre mesh. The purpose of this testing procedure was to document and map the extent of the plough-disturbed soil horizon discovered during the initial survey, to delineate the main site area based on artifact densities and the location of sub-surface features, and to sample the archaeological deposits.

During the course of the test unit excavations, two large features were encountered (Feature 1 and 8). An additional 15 1 m² squares were block excavated and screened through six millimetre mesh in conjunction with these features (this includes two adjacent 1 m² squares that produced very high yields but no evidence of a feature; Figure 1.5).

As the test units were being excavated west to east across the site, a Gradall was brought in mid-August to initiate stripping of the plough zone, beginning with the western portion of the site. This was an area where artifact densities were low, but site activity was nevertheless suggested. Removal of topsoil continued west-to-east across the site until all areas of site potential, as determined by the test units, had been investigated. In general, a 5-10 metre buffer was extended beyond the established limits to ensure that no sub-surface archaeological deposits were missed. In total, an area of approximately 2,920 m² or 0.3 hectare was stripped and investigated (Figure 1.5). This represented 60% of the area originally estimated by the Stage 3 archaeological resource assessment.

Between September 23rd and October 25th, approximately 45 half-day field schools were conducted at the site, involving over 900 Grade 7 to 13 students from schools within the City of Brantford and Six Nations. An area located in the approximate centre of the site (see Figure 1.4) was set aside for this activity. A total of 56 1m² squares were carefully hand-excavated and screened through six millimetre mesh by the students under the supervision of ASI personnel.

As discussed in Chapter 3, 63 cultural features were identified and excavated including 12 hearths, 45 small shallow pits, and five large deep storage/refuse pits, from which most of the artifact assemblage was recovered (Figure 1.5). In addition, numerous rows and clusters of post moulds were recorded.

All feature and post locations were recorded by means of triangulation. Prior to triangulation, post moulds and features were further defined by trowelling, and square

plans were drawn. As conditions warranted, and as the soil dried out during exposure to sun and wind, water was used to increase the visibility of the features. All features were recorded by triangulation to a centre point and their plan views were then drawn on preprinted forms. Locational information and other attributes were also recorded. Features were excavated by trowel and shovel, their fills being screened through six mm mesh, although the exact manner in which this was carried out depended upon their size and complexity in order to provide the most useful vertical profiles for analysis and interpretation. Where necessary, photographs were also taken to document feature plans and profiles. Comments on feature fill and contents were made and recovered artifacts were bagged separately. Flotation samples were collected from all features, although in the case of large, rich or depositionally complex features, multiple samples were taken. Finally, the location and diameter of all post moulds were recorded on pre-printed forms. The majority of the post moulds encountered were also sectioned in order to determine their depth and orientation.

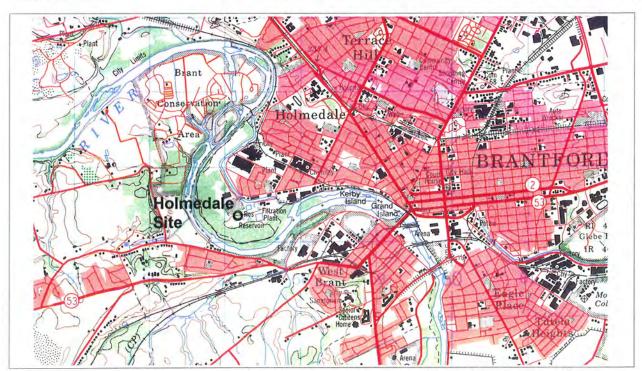


Figure 1.1 1:50,000 scale; portion of topographic map, 40P/1 Brantford, edition 7



Figure 1.2 1:10,000 scale; portion of aerial photograph #55-4306, 36-182

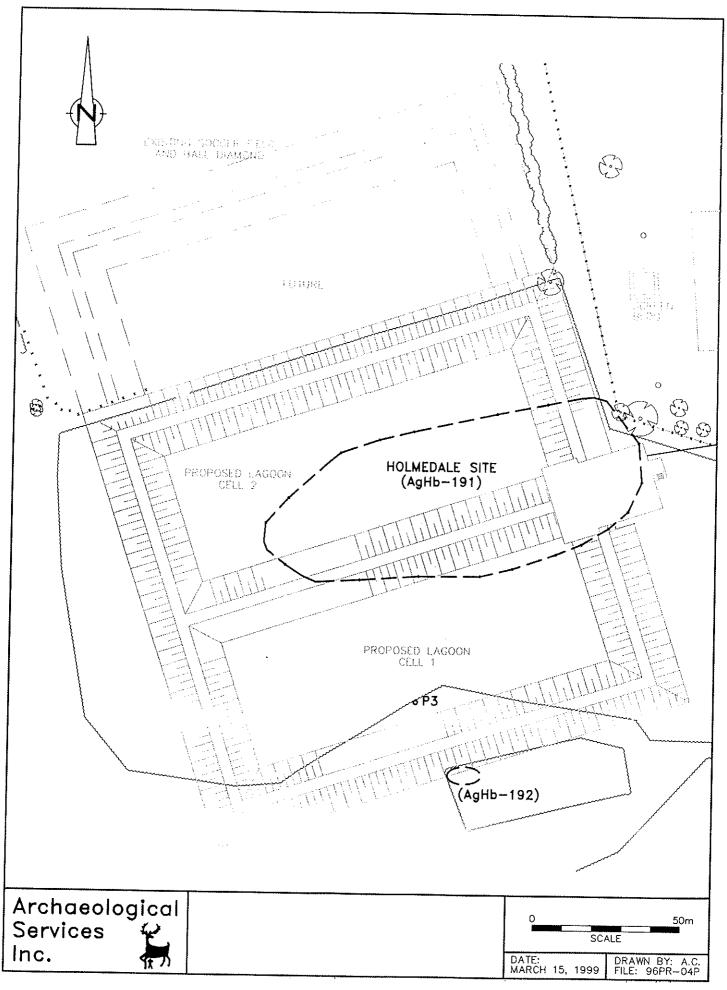


Figure 1.3 Stage 3 Location of Site within Construction Area

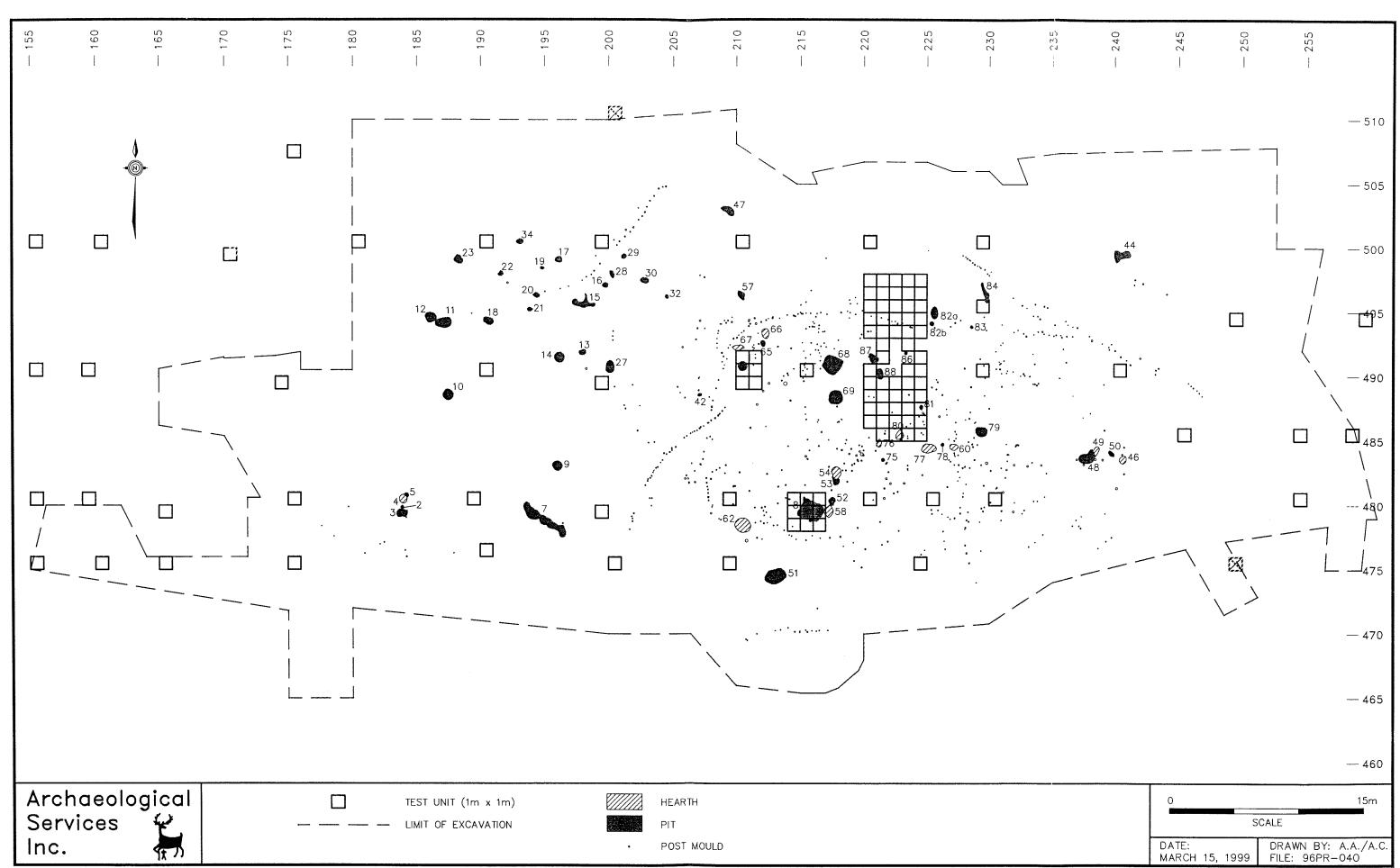
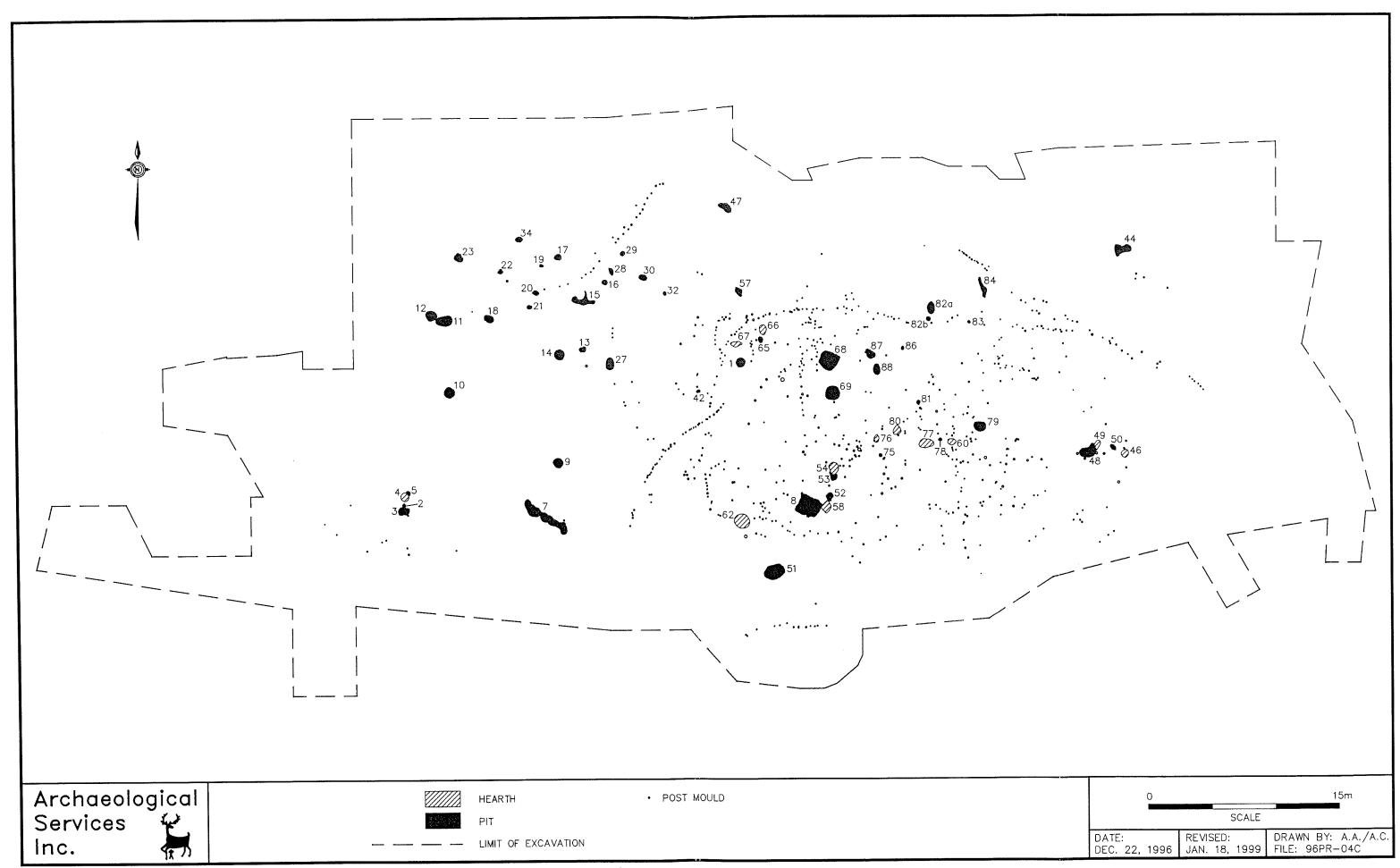


Figure 1.4



HOLMEDALE SITE (AgHb-191): SETTLEMENT PATTERNS

CHAPTER 2: ENVIRONMENTAL CONTEXT

by Robert I. MacDonald and Eva M. MacDonald

2.1 Introduction

Located within the City of Brantford on the floodplain of the Grand River, the Holmedale site is situated along a low terrace that traverses an oxbow formed by the river, the current course of which flows approximately 250 metres to the south. Previous development activities within the area have considerably altered the setting of the site, however, early twentieth century topographic mapping indicates that a sizeable back-water channel or creek and associated marsh formerly lay to the immediate east of the site (Figure 2.1).

2.2 Geology and Soils

The Brantford area is underlain by dolomite and shaly dolomite of the Upper Silurian Salina Formation and dolomite of the Middle Silurian Guelph formation. The bedrock topography varies locally on the order of three to six metres, ranging to over 120 metres in buried valleys. Most of this variation has been subdued by overlying Quaternary deposits which range in depth from about 10 to 75 metres (Cowan 1972:4-10).

Although underlying till of Early Wisconsinan age have been identified in the Brantford area, the bulk of the drift is composed of Late Wisconsinan deposits. During the Missouri stade of around 18-20,000 B.P. the Catfish Creek till was laid down by a glacier moving generally from northeast to southwest. This was followed by glacial retreat during the Erie Interstade of ca. 15,000 B.P., during which glaciolacustrine sediments of stratified to varved silts and clays and stratified sand were deposited. Around 14,000 years ago, glacial re-advance of the Port Bruce stade reworked the fine-grained lacustrine sediments into the Port Stanley Till. The Port Stanley ice sheet then retreated to the east of Brantford and the brief Mackinaw interstade ensued. A strong glacial advance then pushed westward to form the Paris Moraine during the Port Huron stade. The Wentworth Till and outwash gravels were also laid down at this time. As the Port Huron ice sheet retreated there was further deposition of outwash—particularly within the Grand River spillway—and the formation of the Galt and Moffat moraines. The retreating ice sheet also contributed to the formation of glacial Lake Whittlesey which is dated to around 13,000 B.P. This lake and its successor, Lake Warren, produced well-defined shoreline features along the eastern side of the Galt Moraine, including prominent beach ridges at St. George. They also laid down near-shore deposits of sand in the vicinity of the morainic uplands and deep-water deposits of silt and clay to the east. The northern part of the City of Brantford has been built on deltaic sands which were debouched into these glacial lakes by the Grand River spillway where it breached the morainic ridges. As the glacial lake waters receded around 12,000 years ago, high-level alluvial deposits were laid down along the major water courses (Acton 1989; Calkin and Feenstra 1985; Calkin and Barnett 1990; Chapman and Putnam 1984; Cowan 1972; Karrow 1987:24-30).

Since de-glaciation, significant deposits of alluvium have accumulated in the vicinity of Brantford as a result of a rapid decrease in gradient of the Grand River where it crosses the Galt Moraine (Cowan 1972: 3). As the Grand and its tributaries flow out across the easily eroded silts and clays of the Haldimand clay plain, they have developed deep, meandering courses. The resulting dissection of the plain is the major source of relief in this otherwise relatively flat physiographic area.

As the Holmedale site is situated on the floodplain of the Grand, the soils within its immediate catchment are predominantly alluviums. Alluvial soils tend to be quite variable in soil profile owing to their variability in texture, drainage, and age, and are therefore difficult to classify and map. In Brant County, most alluvial soils are imperfectly to poorly drained due to the proximity of the water table, periodic flooding, and seepage from adjacent uplands. Poorly drained alluvial soils are primarily Humic Gleysols (ACECSS 1987; Acton 1989: 26). Humic Gleysols have well-developed humic A horizons, over 8 cm in depth, overlying gleyed B or C horizons. Parent materials are typically alluvial, glacio-lacustrine, or resorted till deposits. Fertility limitations of Humic Gleysols are minor and productivity can be high for a variety of crops if drainage is artificially improved. Meadow grasses and sedges are commonly supported in the natural state (Clayton *et al.* 1977:1:136-140).

2.3 Paleovegetation and Subsistence Resources

The Holmedale site is situated within the Deciduous Forest Region of Canada, and its general forest type is classified as Southern Hardwood. The Deciduous Forest Region contains trees common to the adjacent Great Lakes-St. Lawrence Region, such as sugar maple, beech, white elm, basswood, red ash, white oak and butternut. In addition, Carolinian species, found more commonly to the south, include tulip-tree, cucumber tree, pawpaw, red mulberry, Kentucky coffee tree, redbud, black gum, blue ash, sassafras, mockernut hickory, pignut hickory, black oak, pin oak, swamp white oak, black walnut, and sycamore. Coniferous species tend to be restricted to the more sterile or wet soils, and include eastern white pine, tamarack, eastern red cedar and eastern hemlock (Hosie 1979; White and Hosie 1980).

Over the past 200 years, the forest-cover of the area has been reduced to the point that it scarcely resembles its original state. A number of sources are available to permit the reconstruction of local vegetation prior to Euro-Canadian settlement in the late eighteenth century. Brantford Township was originally surveyed by Lewis Burwell in 1831 and 1833, by Thomas Blyth in 1843, and by William Walker in 1845, and vegetation information from the notes of these surveyors has been transcribed onto a cadastral base map of Brant County (Finlay 1978). A strong correlation can be observed between vegetation and surficial geology/soils. On the coarse-textured soils of the morainic uplands and adjacent outwash, the predominant species is oak, (Quercus sp.) with a notable presence of pine (likely white pine, *Pinus strobus*). Several open plains are also noted in this context. It has been suggested that oak savanna replaced white pine as the dominant upland forest type between 6000 and 4000 B.P., and that the persistence of oak and pine is attributable to the dry substrates which restricted colonization by trees such as maple and beech which prefer more mesic soil-moisture regimes (Szeicz and MacDonald 1991). On the finetextured soils of the glacio-lacustrine plain, maple (likely sugar maple, Acer saccharum) and beech (Fagus grandifolia) predominate, with frequent associates of oak, pine, basswood (*Tilia americana*), elm (*Ulmus* sp.), and ironwood (*Ostrya virginiana*) (Maycock 1963; Szeicz and MacDonald 1991).

A wide variety of wild plant resources was available to the inhabitants of the site. Common nut-bearing trees found in the upland oak savannahs flanking the river valley are likely to have included Black Walnut (*Juglans nigra*), Butternut (*Juglans cinerea*), hickory (*Carya* sp.), oaks (*Quercus* sp.), American Beech (*Ulmus americanus*), and American Chestnut (*Castanea dentata*). The Grand River floodplain and associated wetlands also would have offered a wide variety of resources, including foods such as roots, tubers, greens, and berries, as well as fibres and building materials, such as bark and cedar (*Thuja canadensis*) poles.

Fleshy fruits such as elderberry (Sambucus canadensis), cherry (Prunus sp.), plum (Prunus sp.), apple (Malus coronaria), currant (Ribes sp.), strawberry (Fragaris sp.), and bramble (Rubus sp.) would all have flourished in disturbed or forest-edge habitats.

White-tailed deer (Odocoileus virginianus) would have been attracted to the open woodlands of the oak savannah during the fall, while wetlands along the Grand River would have also provided forest edge zones for spring and summer forage, as well as conifers for winter shelter. Additionally, wapiti (Cervus canadensis) may have occupied the oak savannahs, while the wetlands would have provided suitable habitat for moose (Alces alces).

The Grand River floodplain, and adjacent oak savannahs would also have been attractive to black bear (*Ursus americanus*) and a wide variety of smaller mammal species, including raccoon (*Procyon lotor*), snowshoe hare (*Lepus americanus*) and eastern cottontail (*Sylvilagus floridanus*) and eastern cottontail, while beaver (*Castor canadensis*) and muskrat (*Ondatra zibethica*) would have occupied the banks of the Grand River and its tributaries.

The Grand River valley also represents a significant area of waterfowl habitat, although the limitations of this area are considered moderately severe as a result of topography which limits the development of permanent wetlands and adversely affects the development of optimum marsh conditions along the waterfront. Nevertheless, the stretch of the Grand River between Brantford and Cambridge is noted as an important migration and wintering area. The main breeding species include: mallard duck (*Anas platyrhynchos*), blue-winged teal (*Anas discors*), wood duck (*Aix sponsa*), and black duck (*Anas rubripes*) (Johnson 1968).

The oak savanna and forest openings along the Grand River would have provided ideal habitats for upland game birds, particularly passenger pigeon (*Ectopistes migratorius*) and wild turkey (*Meleagris gallopavo*).

The Grand River, its tributaries and associated wetlands supported a number of fish species that would have been significant sources of dietary protein. Potentially important species include lake sturgeon (*Acipenser fulvescens*) bowfin (*Amia calva*), northern pike (*Esox lucius*), muskellunge (*Esox masquinongy*), channel catfish (*Ictalurus punctatus*) smallmouth bass (*Micropterus dolomieui*), yellow perch (*Perca flavescens*), and walleye (*Stizostedion vitreum*).

2.4 Historic Land Use

Although the land encompassing Holmedale was covered by woodlot and scrub and brush at the time of the site's initial discovery, it was formerly cultivated (Armstrong-Reynolds n.d.). The Brantford Waterworks Commission purchased the land in 1899, however, it continued to lease it out as dairy farm. Following a fire on the farm in 1907, the Commission no longer permitted animals on the property, but continued to lease the land for field crops. The existing woodlot is primarily a result of public works tree plantation project, completed 30 to 40 years ago. The reforestation utilized few naturally-occurring native plant species.

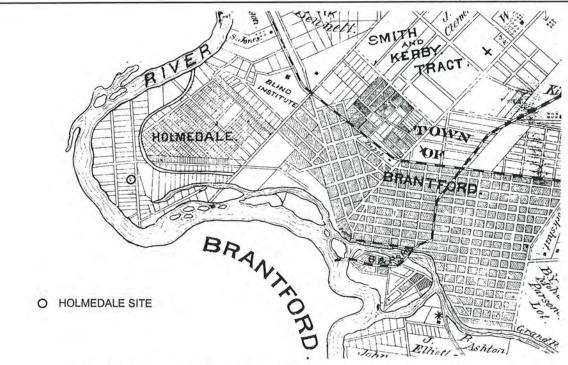


Figure 2.1 1875 Historical Atlas of Brant County

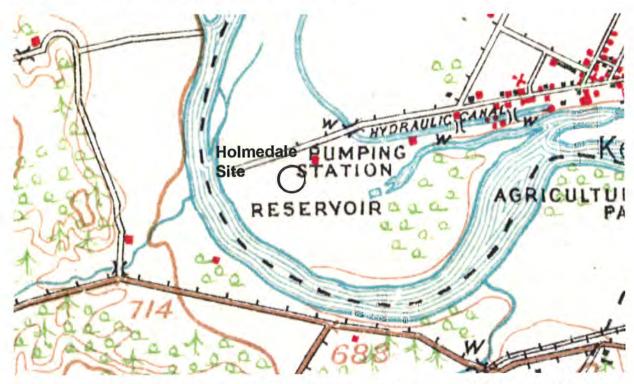


Figure 2.2 1916 NTS Topographic Map (1" to 1 mile [enlarged 400%], Brantford sheet 40P/1, based on 1908 cultural survey)

CHAPTER 3: SETTLEMENT PATTERN

by David A. Robertson

3.1 Introduction

The 1996 investigations resulted in the exposure of an area encompassing approximately 2920 m² or 0.3 hectare (Figure 1.4). As noted in Chapter 1, the majority of the site area was excavated through use of a Gradall to remove the plough zone—comprising approximately 30 cm of topsoil—in order to expose the subsoil . As discussed in Chapter 1, however, a total of 67 1 m² test squares was hand excavated and screened through six millimetre mesh at 5-10 metre intervals prior to the mechanical removal of the ploughed overburden. The purpose of this testing procedure was to document and map the extent of the plough-disturbed soil horizon discovered during the initial survey, to delineate the main site area based on artifact densities and the location of sub-surface features, and to sample the archaeological deposits. Furthermore, the plough zone from within a 56 m² block in the approximate centre of the site area was hand excavated and screened through six millimetre mesh.

The final limits of the excavation area were established on the basis of topography, artifact recovery patterns within the plough zone, the extent of previous disturbances resulting from nineteenth and twentieth century land use, and the distribution of subsurface settlement remains encountered as the excavations progressed.

A total of 63 cultural features, in the form of pits and hearths, together with 722 post moulds was recorded as a result of the investigations. As discussed below, the numerous feature clusters and post alignments encountered within the excavation area suggest the presence of a palisade, several poorly defined, small house structures and a number of fence lines, that would appear to indicate repeated short-term occupation of the settlement.

3.2 Feature Classification

Three broad classes may be discerned among the 63 features recorded at the site: "general pits" that are likely related to a variety of activities, large "storage pits" that were subsequently utilized for refuse disposal, and hearths. Some consideration must be given to the types of features utilized in the analysis, prior to the description of the settlement patterns documented at the site.

3.2.1 General Pits

Fort-five features are typed as pits that are generally of undifferentiated character and function, descriptive data concerning which are provided in Appendix 1. The contents of these generalized pit features are primarily limited to comparatively small quantities of secondary refuse. Such pits are broadly distributed throughout the site area, suggesting that they represent the vestiges of a broad range of interior and exterior activities. Unsurprisingly, therefore, this feature category subsumes a wide range of forms ranging from those comparatively small pits exhibiting regular (circular to ovate) plans and comparatively shallow profiles to larger, more amorphous features that possess irregular plans and/or profiles. The majority of the former were likely utilized only for short periods of time and, in most cases, appear to have been backfilled relatively rapidly once they went out of use, given their general lack of complex stratigraphic profiles. Discounting those upper portions of the features removed by the plough, these pits have, on average, volumes of less than 0.11 m³. The few cases in which the capacity of general pits exceeds approximately 0.2 m³ are confined to those features exhibiting comparatively large surface areas, but shallow depths.

A number of processes may account for the formation of the more irregular-shaped features. Naturally-occurring depressions, caused by tree falls or rock pulls, for example, may have been intentionally used as a place to discard refuse, although it is also possible that considerable quantities of debris could accumulate in such areas incidentally. In either case it is also possible that certain types of tasks were intentionally carried out in the vicinity of such areas, where the disposal of debris would be easily facilitated, and where there was access to a wealth of raw material such as bone. Other more amorphous features may represent repeated use of a specific area that resulted in the development of complexes of overlapping features as pits were dug, back-filled, and replaced by others in close proximity. Finally, tree and rodent disturbance is likely to have resulted in the distortion of the original forms of some deliberately-excavated pits, or even the spurious identification of cultural features.

3.2.2 Storage Pits

Five large, deep features are considered to be storage pits that were subsequently used for refuse disposal. Such features are frequently found on Transitional Woodland or early Late Woodland sites (e.g., Fox 1976:182; Lennox: 1982:10; Murphy and Ferris 1990:235-236; Timmins 1997:156-160) and, in general, exhibit deep basin to cylindrical flat-bottomed, or bell-shaped profiles, as well as complex layering and lensing, indicative of gradual or periodic back-filling, weathering and erosion of the exposed walls of the pit, and possibly re-use.

The Holmedale storage pits (Figure 3.1; Appendix 1) compare favourably with the sample of 68 features from the Early Iroquoian Calvert site that have been analyzed in considerable detail by Peter Timmins (1997), who noted that the average dimensions of the Calvert examples were 127 cm in length, 112 cm in width and 70 cm in depth, providing for an average capacity of approximately 1 m³. The Calvert features generally possessed fill comprised of three to four strata (Timmins 1997:Table 7.24). The five Holmedale examples, on the other hand, have mean dimensions of 124 x 106 x 65 cm, a mean volume slightly in excess of 1 m³. The fills of the pits are comprised of two to five major depositional strata.

It has generally been assumed that the primary function of pits of this type was cold season storage of maize or other foodstuffs, and that in order to be effective, it would have been necessary to provide the features with a bark liner (e.g., Fox 1976:182; Lennox 1982: Murphy and Ferris 1990:236; Timmins 1997:156). While Gabriel Sagard (1939 [1632]:95) has frequently been cited as ethnohistoric confirmation of the use of bark linings in underground storage pits (e.g., Heidenreich 1971:119; Timmins 1997:149), and he certainly described "large vats or casks of tree-bark," his discussion did not make explicit reference to bark-lined pits.

The probability that such a liner would deteriorate within a comparatively short period of time has led to the further assumption that the use-life of these storage pits was comparatively brief and that they would subsequently be used for refuse disposal (Timmins Although Timmins (1997:150-156) has devoted considerable effort to replicative studies concerning the post-abandonment processes responsible for the formation of the features recognized as storage pits, rather less consideration has been given to testing traditional assumptions concerning aspects of storage technology, such as the need for a bark lining, or the potential longevity of such features. Experimental data directly relevant to such questions, however, are available as a result of long-term research concerning grain storage in underground "silos" during the British Iron Age (Reynolds 1981:22-24). Such work has established, for instance, that a presence of a pit lining is not a critical factor in the preservation of grain. Rather, the key agent in the preservation process is the natural respiration cycle of the grain itself, which consumes oxygen and produces carbon dioxide as a waste by-product. Thus, grain placed in a sealed container consumes all of the available oxygen and will enter a state of unstable dormancy in the resulting carbon dioxide-charged atmosphere (Reynolds 1981:22). Until an anaerobic atmosphere is achieved, the germination of the grain at the interface of the pit walls and surface seal of the pit produces a dense layer of sprouts and rootlets that acts as a barrier to moisture penetration from the surrounding soil, while at the same time the bulk of the stored material is protected from further deterioration (Reynolds 1981:23). Upon removal of the stored grain, the pit is left with a the matt of sprouted grain adhering to the walls, which may then be peeled away and discarded, either in a midden or by burning it in situ if there is no further intention of using the feature for storage. If the former option is pursued, however, there appear to be no real limits placed upon the continued viability of the storage pit (Reynolds 1981:23-24). The ultimate abandonment of these features may, therefore, be more often attributable to other factors, the existence of which must be recognized in any effort to reconstruct the settlement history of a site.

3.2.3 Hearths

Twelve features are typed as hearths (Appendix 1), primarily on the basis of their shallow profiles, the predominance of fire-reddened soil in their fill, and their general dearth of artifactual contents. These attributes are a consequence of the fact that rather than being formed through excavation into the subsoil, hearth features result from the intense heat of a fire burning off the organic components of the underlying soil and oxidizes the remaining minerals. As the predominant mineral content in southern Ontario subsoils is iron, the result is a reddish-coloured iron oxide.

3.2.4 Posts

A total of 722 posts was recorded across the site. The majority of posts, however, were concentrated within an area defined by a primary palisade row and a series of fence lines that appear to have been the primary occupation zone. A small number of posts were diffusely distributed throughout the westernmost portion of the site, while a few were also noted to the northeast of the main occupation area. Overall, the posts ranged from four to 28 cm in diameter, with a mean of 8.5 cm. Post depths ranged from four to 51 cm, with a mean of 15.5 cm. The vast majority of the posts exhibited a diameter to depth ratio of between 1:1 and 1:3, and were vertically oriented. The overall high variability of the post mould metrics is likely a consequence of the fact that they represent the remains of a diverse range of structural features, ranging from wall and support elements from houses, interior domestic activity and furnishings, temporary or expedient exterior structures such as drying racks or informal, slightly-built, shelters and fences. More detailed consideration of post attributes are provided below as part of the effort to reconstruct the layout and appearance of the community.

3.3 Settlement Pattern Description

3.3.1 The Primary Occupation Area

The main focus of settlement activity at the site appears to have been concentrated in an area delineated by a major row of palisade and a series of fences (Figure 1.4). The variable orientations of the perimeter fence sections, together with the fact that they frequently bisect areas of concentrated feature activity, suggests that the compound may have been expanded or contracted on one or more occasions to meet the changing needs of the inhabitants of the site during their successive occupations. Unfortunately, the form of the area defined by the fences at any one time cannot be discerned with any degree of confidence, due both to the discontinuous patterns of the post lines and to the possibility that the construction of some of the house structures may have incorporated sections of fencing as house walls or vice versa. Whether or not such use of common architectural elements occurred as one or the other became redundant cannot be determined.

Despite these difficulties, it would appear that the greatest concentration of activity appears to have been confined to an oval-shaped area measuring approximately 650 m². Within this compound, at least nine potential clusters of hearths and pits are readily apparent. Each feature concentration is associated with scatters of post moulds of varying densities and configurations, however, few well-defined house structures are immediately evident. Those structures that are hypothesized in the following discussion, however, are largely consistent in terms of size and form with many of those documented at other roughly contemporary settlements such as Auda (Kapches 1987:Figure 2), Boys (Reid 1975:Figures 5 and 12), Van Beisen (Noble 1975:Figure 2) and the nearby Porteus site (Noble and Kenyon 1972:Figure 3; Stothers 1977:125). They also resemble the small circular to elliptical houses encountered on many somewhat later sites, such as Reid (Wright 1978:Figure 2), Elliot (Fox 1986:Figure 4), Roeland, Yaworski and Bermortel (Williamson 1985:Figures 14, 24 and 25), and Calvert (Timmins 1997Figure 5.1) in conjunction with structures that are more recognizable as "longhouses."

In the extreme northwest corner of the compound and immediately adjacent to the palisade, a pair of hearths (Features 66 and 67), separated from one another by a distance of approximately two metres, were found in association with a small, shallow pit (Feature 65), which was devoid of artifactual remains, and a large storage pit (Feature 1). Feature 1 measured 71 cm in length, 64 cm in width and 80 cm in depth and was composed of four major fill layers. Considerable quantities of ceramic sherds, derived from at least four separate vessels, lithic debitage and other refuse was recovered from the fill of the pit.

Two short alignments of posts, one of which traversed the main palisade row to the north and west of Features 1 and 67, while the other lay intermediate between them to the east

indicate the presence of a structure measuring approximately 3.5 m in length and 2.5 m in width that was oriented roughly north-south. Only one hearth (Feature 67) and the large storage pit (Feature 1) would have constituted interior features while the second hearth (Feature 66) and the small pit (Feature 65) were exterior to the house. The structure was not contemporary with the palisade.

To the immediate east of the Feature 1/65-67 complex, an approximately 6.5 m long line of irregularly spaced posts may represent the west side wall of another structure. Three pairs of posts extending eastward from the southern terminus of this alignment, and an irregularly cluster of seven posts at its northern end may be indicative of end walls. Two large storage pits (Features 68 and 69) may constitute centrally-aligned interior features associated with this potential house, suggesting that the structure may have measured approximately 2.75 to 3.0 m in width. The smaller of the storage pits (Feature 69) had a diameter of 105 cm in plan view and was 50 cm deep. Its fill was comprised of two major layers, which contained portions of at least 16 ceramic vessels. Feature 68, on the other hand, measured 165 x 150 x 65cm and three major strata were apparent within its fill. Portions of at least six ceramic vessels were recovered from this pit.

To the south of the Feature 68 and 69 pairing, two hearths (Features 54 and 58), were found to be separated from one another by a distance of approximately 2.5 cm. Feature 54 predated a general refuse pit (Feature 53), with which it was presumably associated, while Feature 58 was flanked by a pit (Feature 52), which predated a large "support" post, and the largest of the storage pits documented at the site (Feature 8). Feature 8 (Plates 3.1-3.3), which measured cm in length, 142 cm in width and 92 cm in depth, contained five major depositional strata, which yielded portions of at least 22 ceramic vessels.

The definition of potential structural elements associated with this feature cluster is problematic. A roughly 7.0 m long line of as many as 23 single-spaced to irregular clustered posts located approximately 2.0 m to the southwest of Feature 8, may indicate the presence of one wall. Similarly, a dense cluster of posts to the immediate northeast of Feature 54 may indicate the presence of a wall in this location. Taken together, these potential house walls may indicate the presence of a structure of roughly 8.3 m in length and perhaps 6.4 m in width.

A short distance to the west of Feature 8, a single hearth (Feature 62) occurred in apparent association with three comparatively well-defined lines of single-spaced and paired posts that extend to the northwest and which may represent the sides and north end wall of an open-ended structure measuring approximately four to five metres in length and three metres in width. The west side wall of the structure may, at some point, also have constituted a portion of the main palisade row.

Two potential—and possibly overlapping—structures also occurred to the north and east of postulated house containing Features 8, 52-54 and 58. Within this area four hearths (Features 60, 76, 77 and 80) formed two separate, but parallel-aligned pairs. In each case, the distance between the two hearths (Features 76 and 80; 77 and 60 respectively) measured approximately 2.0 m. The intervening space between the Feature 60/77 pair was occupied by a small pit (Feature 78). Two other pits (Features 75 and 79) may also be associated with this occupation area. Feature 75 was a small, shallow, generalized pit, while Feature 79 was a storage pit in-filled by two major strata that contained moderate quantities of refuse.

Approximately seven metres to the east of Feature 79, in the southeast portion of the primary settlement area a pair of hearths (Features 46 and 49) separated from one another by a distance of approximately 2.0 m, together with two pits (Features 48 and 50) and 18 scattered posts form a discrete activity area. Although the distance between the hearths and the pairing of hearths and pits is similar to that noted for the other postulated houses, no alignments of posts suggestive of walls were evident.

Approximately nine metres to the northwest of the Feature 46/48/49/50 concentration and adjacent to the easternmost palisade line, another structure may be indicated by the presence of a U-shaped line of 26 paired or staggered posts which may represent the rounded west end wall and portions of the sides of a house measuring approximately 6.5 m in length and 3.25 m in width. It is also possible that a rounded eastern end wall may by indicated by three widely spaced posts. Other than two post moulds in the approximate centre of this potential house, there is a dearth of further evidence for "interior" activity.

A number of other features that do not appear to have been contained within any structures were scattered throughout the main settlement area. These include a cluster of three pits (Features 86-88) and a minimum of five associated posts that lay to the east of the potential house containing Features 68 and 69 but within the main palisaded area. These features contained few artifacts.

A further five metres to the northeast, four pits (Features 82a, 82b, 83 and 84) and a few scattered posts were found within an area lying between the main palisade line and an exterior fence.

Finally, Feature 51, a large but comparatively shallow pit, was located a short distance to the south of the possible structures associated with Feature 62 on the one hand and Features 8, 52-54 and 58 on the other.

3.3.2 Exterior Activity Areas

A significant concentration of exterior activity appears to have occurred to the northwest of the area in which the house structures were likely to have been located. Much of this activity seems to have been focused on an approximately ten metre long fence row of single, evenly spaced posts. A row of four small pits (Features 15, 16, 28, and 29) was located to the south of, and roughly parallel to, this post alignment, immediately adjacent to two pairs of paired posts, which might define a passageway through the fence. Such patterning suggests that the post row and these pits were coeval. An additional eight pits (Features 13, 14, 27, 30, 32, 42, 47 and 57), together with numerous isolated posts were diffusely scattered throughout the broad open area lying between the ten metre long post row (Plate 3.4) and the palisade section surrounding the main settlement area. Further to the south, three pits (Features 7, 9 and 10) sat in relative isolation. Feature 7, however, appeared to represent the remains of three successive pits (Plate 3.5), suggesting that repeated or intensive activity took place in its immediate vicinity.

Approximately ten metres to the west of the Feature 7 complex, the presence of a tight feature cluster formed by a hearth (Feature 4), three pits (Features 2, 3, 5) and a single post reflects a significant level of activity in this area as well. Although a scatter of nine posts was found approximately 2.5 m to the south of this feature cluster, there were no other indications that a house may have been present in this locale.

To the north and west of the ten metre fence row, a diffuse scatter of 10 pits (Features 11, 12, 17-23) and isolated posts were encountered, indicating frequent use of the northwest perimeter of the settlement for the completion of various outdoor tasks and the disposal of refuse.

The northeast margins of the settlement, on the other hand, appear to have been much less intensively used, since only a single pit (Feature 44) and four isolated posts were found beyond the easternmost palisade line.

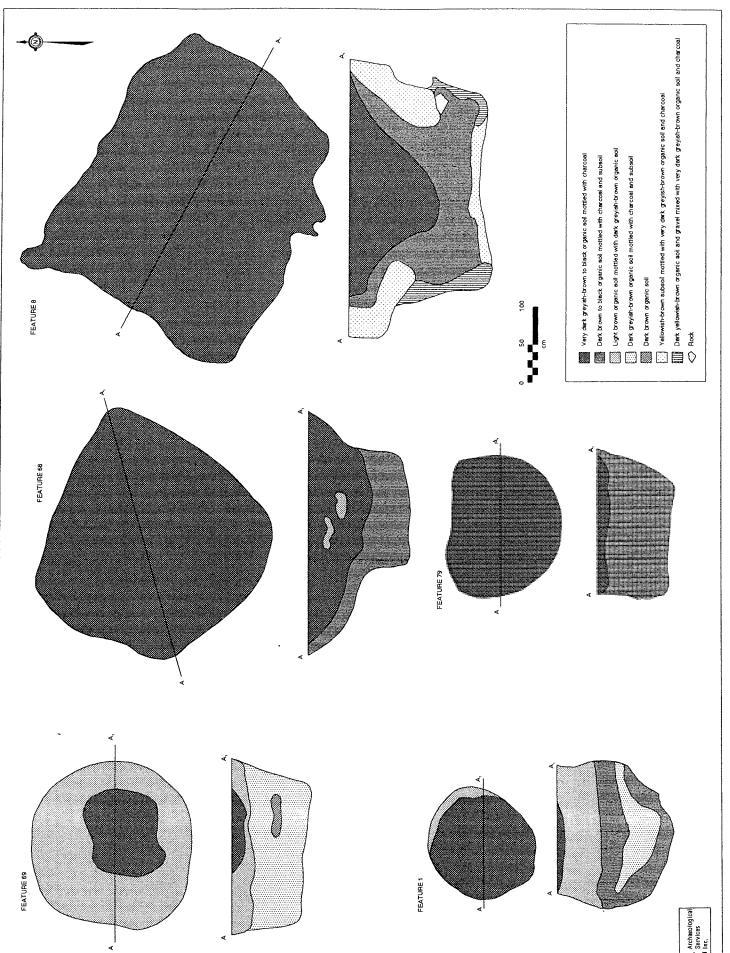


Figure 3.1 Holmedale Site: Plans and Profiles of Storage Pits



Plate 3.1 Planview of Feature 8 and Excavation of Southwest Quad



Plate 3.2 Profile of Feature 8 (North Wall)



Plate 3.3 Feature 8 (Northwest Quad) during Excavation (Depth at 58 cm)



Plate 3.4 Planview of Features 30 and 31 and Row of Post Moulds in Northwestern Portion of the Excavation Area. Note that Feature 30 proved to be non-cultural.

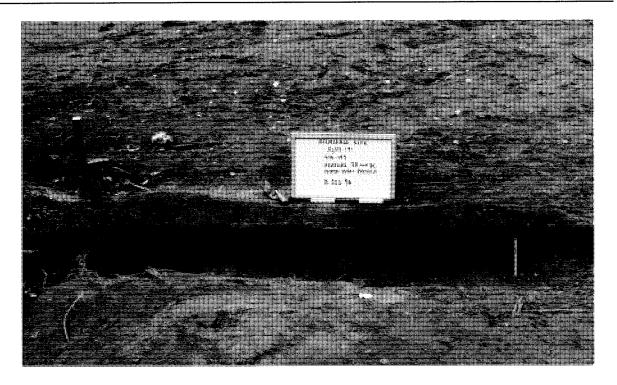


Plate 3.5 Planview of Feature 7b & c

CHAPTER 4: ARTIFACT ANALYSES

4.1 Ceramics

by Robert H. Pihl

Based on the limited artifact assemblage recovered from the initial investigation of the site in July 1996 (ASI 1996), Holmedale was identified as a component of the Princess Point Complex (cf. Stothers 1977). The fieldwork which then followed yielded a large, significant sample of ceramics from a totally excavated site which has suffered only minimal subsurface disturbance. Not since the Porteous site (AgHb-1) excavations between 1969-1971 (Noble and Kenyon 1972; Stothers 1977) or those at the Varden site (AdHa-1) in 1983 (MacDonald 1986) has there been an opportunity to examine a ceramic collection of this size and to offer fairly detailed information on Princess Point vessel morphology and decorative style.

4.1.1 Ceramic Sample

The Holmedale ceramic sample consists of a total of 2,761 specimens and includes pieces of cooking and storage vessels, fragments of small or juvenile-like pots, portions of smoking pipes, and a number of miscellaneous ceramic objects. As Table 4.1 details, the sample is clearly dominated by material from the first category, comprising 2,712 analyzable sherds (or 98.2% of the total) and quantities of unanalyzable fragmentary sherds (which together weigh over 55.6 kg). The remaining ceramic classes contain only limited numbers: eight juvenile ceramics, 34 pipe fragments, and seven miscellaneous ceramic objects. Each artifact class is described and analyzed in the following sections.

Table 4.1 also summarizes the derivation of the ceramic sample. Just over 5% of the material came from the initial one metre test units, 2-3% were recovered incidentally from shovel shining within the 5m² units prior to the excavation and recording of post moulds, while another 28-33% were obtained from the block excavations conducted around several of the features (e.g., Feature 1 and 8) or associated with the various field schools. The overwhelming portion of the sample, between 58-63%, were recovered during the excavation of the numerous subsurface features which were scattered throughout the site area. These were largely undamaged by previous agricultural activity or any of the myriad of other disturbances known to have occurred at the site. In general, all four ceramic artifact classes are represented in each of the excavation samples.

Table 4.1 Breakdown of Ceramic Sample

	1m² test units		1m² excavation units*		5m² units (posts)		Features		Total
Sample Type	X	%	X	%	X	%	×	%	X
Cooking Vessels									
# sherds**	155	5.7	767	28.3	58	2.1	1732	63.9	2712
weight (g)	2985.2	5.4	18382.3	33	1539.1	2.8	32719.6	58.8	55626.2
Juvenile Vessels									
# sherds	_		3	37.5	1	12.5	4	50	8
weight (g)			14.3	73.8	73.8	59	37.1	29.6	125.2
Pipes									
# sherds	1	2.9	16	47.1			17	50 [.]	34
weight (g)	1.5	1.2	33.3	27			88.5	71.8	123.3
Miscellaneous Cera	amic Object	ts							
# sherds	1	14	1	14.3	1	14.3	4	57.1	7
weight (g)	1.5	5.2	6.4	22	3.1	10.6	18.1	6.2	29.1
Total	· · · · · · · · · · · · · · · · · · ·								
# sherds	157	5.7	787	28.5	60	2.2	1757	63.6	2761
weight (g)	2988.2	5.3	18436.3	33	1616	2.9	32863.3	58.8	55903.8
*block excavations (**fragmentary body s	•		,	are included	in the weig	ht totals)			

The analysis process began in the laboratory when the entire ceramic sample was cleaned and labeled, and artifacts within each provenience unit were subjected to a preliminary sort and reconstruction, so that individual vessels and pipes could be identified. More detailed reconstruction followed, involving the cross-mending of portions or fragments from within and/or between excavation units. This resulted in a series of partially reconstructed vessels, and rim sections, as well as pipe bowls.

Once the preliminary processing and sorting was finished, the artifacts from each ceramic class were carefully re-examined by the author. During this analysis phase, one last attempt was made to sort and/or mend the artifacts into larger analytic units, and all specimens were weighed and described in detail.

4.1.2 Cooking/Storage Vessels

Sherds were sorted into the cooking/storage vessel sample if they satisfied two fundamental criteria: they possessed a paste that was generally well-knit, tempered, and reasonably well fired, and they appeared to be skillfully and purposefully manufactured and decorated. A total of 2,712 sherds met these minimal criteria. Specimens from vessels that appear to have been of small size, asymmetrical or irregular form or which bore amateurish or random decorative motifs were considered to be "juvenile vessels". Only eight specimens were so classified.

The primary analytic unit adopted for this study is the *vessel*, which includes all sherds or reconstructed portions with enough rim (including both interior and exterior surfaces), lip, neck, and shoulder to infer a profile *and* a clear indication of the exterior, interior and lip decoration. Sherds not incorporated into vessels were typed according to their presumed location on the vessel (i.e., fragmentary rims, necks, neck-shoulders, shoulders, body or base fragments). Any sherd smaller than 2 cm² in size and/or missing one or both surfaces, was classified as fragmentary.

Description and analysis varied with the nature of the specimen. Vessels received the most detailed treatment whereas fragmentary sherds were simply bulk weighed by provenience unit.

Sixty-five vessels (incorporating 653 sherds, or 24.0% of the total), as well as 133 fragmentary rims, 65 necks, 46 neck-shoulders, 248 shoulders, 1,455 bodies, and 112 bases were identified. Data tabulated in Appendix 2.2 indicate that while a larger percentage of the sherds used in reconstructing the vessels derive from the features (as expected), a disproportionate number of vessels also came from the block excavations, and to some degree from the post moulds. This is not necessarily significant, however, since the block excavations encompassed numerous small features (Figure 1.3).

Vessel distribution displays a rather skewed pattern (Table 4.2). Fifty-six vessels were recovered from features (86.1% of 65), but most of these (75.4%) came from four of the five large storage pits (Features 1, 8, 68 and 69) which were loosely clustered in the centre or densest part of the site (Figure 4.1). Each of these large pits was surrounded by hearths, other general pits, as well as a scattering of post moulds, and these together probably served as one or more domestic areas. Once the original storage function of the pits was exhausted, they were apparently re-used for refuse disposal. The rest of the vessel sample came from a few of the general purpose pits (Features 3, 7, 11,

30, 82a, 82b), or from the test and block excavation units. A few of the latter were probably associated with nearby general purpose features.

Table 4.2

Vessel L

1 m² tes

Block Exports the second of the latter were probably associated with nearby general purpose features.

The Vessels

The 65 identified vessels represent a significant collection of Princess Point

Table 4.2 Vessel Identification by Provenience

Vessel Location	#	%	#	%	Vessel Identification
1 m² test units			1	1.5	1
Block Excavations			6	9.2	2, 4-7, 64
5 m ² recording units			2	3.1	
Features			56	86.1	
general	7	12.5			11-13, 33, 62, 56-57
storage	49	87.5			3, 8-10, 14-18 ¹ , 20- 32, 34-55, 59-61, 63, 66
Total			65	100	
¹there is no Vessel 19					

ceramics from a single site. A comprehensive analysis was conducted to take advantage of the many large joined and/or associated rim and vessel portions. All vessels are described in detail (Appendix 3) and illustrations are provided (Figures A3.1-5).

Of the vessels identified, 42 (or 64.6%) are rim vessels, comprising one or more intact rim sherds, 13 (or 20.0%) are rim vessels with non-joined but associated sherds (usually neck and/or shoulder sherds), four (6.2%) are vessels consisting of large reconstructed portions, and six (or 9.2%) are reconstructed portions with additional non-joined but associated reconstructed portions. Following the definitions outlined in Figure 4.2, the analyzed vessel portion was recorded. Fourteen (or 21.5%) of the vessels provide an observation zone from the "lip to lower neck" only. Thirty-four (or 52.3%) of the vessels provide observation zones from the "lip to upper shoulder", and 17 (or 26.2%) extend the zone even further. These latter include four from the "lip to lower shoulder," eight from the "lip to upper body," four from the "lip to lower body," and one from the "lip to base". Thus, the sample provides an exceptional opportunity to document and study vessel morphology and decoration on larger, more intact specimens.

Holmedale Ceramics and "Princess Point Ware"

In his monograph entitled *The Princess Point Complex*, Stothers studied the ceramics from a number of related components and coined the term "Princess Point Ware" (1977: 54-58) to characterize the observed similarities in paste, vessel manufacture and morphology, and decoration. Without question, the Holmedale ceramic sample conforms to Stother's defining attributes.

The paste is generally well knit, reasonably well fired, and fairly densely tempered with fine to medium grit. This has resulted in pottery that is remarkably durable and which has survived rather well over time. Vessel construction was investigated by observing

attributes related to one of two possible manufacturing techniques: coiling *versus* lamination or layering. Regarding coiling, only two tenuous coil breaks were observed on the vessels, but neither showed obvious attributes as smoothing and overlapping. Within the overall sherd sample, only eleven coil breaks were noted representing an insignificant portion (0.4%) of the total. On the other hand, many of the Holmedale vessels exhibited exfoliated surfaces (three were particularly severe), and a large portion of the sherd sample was fragmentary in nature (judging by the large volume of unanalyzable sherds; Apppendix 2.2). This strongly suggests that vessel construction was by layering instead of coiling.

According to Stothers (1976: 140; 1977: 54) and others (Bursey 1995: 46; Smith and Crawford 1997: 24), the vessel bodies of Princess Point Ware were typically cord-roughened and then often partially smoothed, while the upper vessel portions were characteristically smoothed to receive decoration. This pattern is definitely reflected at the site. Based on the sherd sample, as well as the numerous reconstructed vessels, the vessel bodies were cord-marked and then partially smoothed. In total, 93.2% of all body sherds, 80.5% of all base sherds, and 100% of all vessels with intact body portions (n=17) were treated in this fashion. The balance were smoothed. Interior surfaces were characteristically smoothed (95.7% of all body sherds, 100% of all base sherds, and 96.8% of all vessels). There was only incidental use of wiping (or random striations), smoothed-over cord-marking, or combing (i.e., the incising of parallel lines).

Princess Point Ware is described as being decorated or undecorated (Stothers 1977; Smith and Crawford 1997), a reference to whether or not the upper rim area is "smoothed-over and decorated," or "cord-marked and undecorated." Over 92% of the Holmedale vessels had exteriors that were routinely smoothed to receive some form of decoration. That this smoothing was *usually* confined to the decorative zone is well documented on most of the vessels where this zone is complete (Vessels 3, 8, 12, 14, 15, 31, 32, 35 and 38). The exceptions are Vessels 17 (Plate 4.10, Figure A3.2) and 65 (Figure A3.3) which have substantial cord-roughened zones usually on the shoulder or upper body that were subsequently decorated. As a rule, the smoothed decorative zone on the reconstructed vessels extended from the upper rim to the lower shoulder or upper body area, with the normal, corded surface treatment resuming just below the decoration.

Limited surface roughening was occasionally incorporated into the decorative zone. A narrow (usually undecorated) band was observed on six vessels (Vessels 1, 5, 13, 21, 33 and 49; Plate 4.1:e, c). It should also be noted that six vessels (or 9.2%; Vessels 4, 7, 30, 40, 58 and 64; Plates 4.1:a, b, d; 4.2:b) were extensively cord-marked (i.e., they were deliberately unsmoothed) on the upper rim area. However, since all but one (Vessel 58; Plate 4.2:b) are rim vessels, more extensive (and perhaps smoothed) portions of the decorated body could be missing. In this group, only Vessel 7 was *not* decorated (Figure A3.1; Plate 4.1:e).

In terms of the sherd sample, intentional smoothing of the exterior decorative zone was also the norm: fragmentary rims (75.5% of 106), necks (87.9% of 58), neck-shoulders (80.5% of 41), and shoulders (80.3% of 201). Cord-marked surfaces generally comprised the balance.

Vessel Morphology and Manufacturing

Only one vessel was sufficiently reconstructed to permit characterization of its overall shape. Vessel 32 is a large, semi-conoidal shaped jar which stands 40.5 cm tall, has a 26 cm orifice diameter, and is characterized by a relatively tall (27 mm), out-flaring rim with constricted neck, flat lip, fairly pronounced shoulder, and semi-conical base (Figure 4.1:a; Plate 4.3). A second, partially reconstructed vessel (Vessel 31) is a somewhat shorter (perhaps 35 cm tall), globular-shaped jar with a smaller orifice diameter (21 cm), and it is defined by a shorter (15 mm), out-flaring rim with constricted neck, flat lip, and a fairly smooth shoulder. It probably had a round base (Figure 4.1:b; Plate 4.4). Despite these two similar examples, there is much more morphological variation within the overall vessel sample. Rim orientation is a good case in point. While many of the vessels have outflaring or everted rims similar to the above examples (40.0%), a large number have rims only slightly flare out (27.7%), and a sizable minority have vertical rims with no noticeable out-flaring (29.2%). Likewise, the dominant upper rim shape is parallel-sided (67.7%), but roughly a third of the vessels have upper rims that are expanding (9.2%), thickened by an appliqué (15.4%), or thinned (7.7%). The average upper rim height for the vessels is 14.2 mm (Table 4.3), compared to 11.67 mm for the fragmentary rim sample (n=38). Note that the latter average is about 2.5 mm shorter than the overall vessel sample and almost 7 mm shorter than the reconstructed vessel sample. This is probably due to measurement vagaries caused by the fragmentary nature of the sample.

Lip shape also varies somewhat within the sample. Although 48 vessels (73.8%) have a flat lip, at least one bevels in, ten bevel out, and two protrude to the exterior. Fifteen vessels (23.1%) have round lips, but one is folded-over to the exterior, contributing to a

	All V	essels (n=6	55)	Reconstructed Vessels (n=12)		
Measurement	n	×	δ	n	X	δ
lip thickness¹ (mm)	64	7.91	1.85	12	8.55	2.31
upper rim thickness (mm)	62	7.9	1.74	12	8.65	2.14
neck thickness² (mm)	58	7.9	1.91	11	8.5	1.99
shoulder thickness ³ (mm)	46	7.48	1.97	12	7.92	2.39
body thickness* (mm)	12	6.48	1.17	12	6.48	1.17
upper rim height ⁵ (mm)	61	14.2	5.62	12	18.52	7.12
upper rim-punctate distance (mm)	56	19.3	5.65	12	21.18	6.29

Table 4.3 Vessel Measurements

thickened upper rim. Finally, two vessels have splayed lips caused by a single, deeply stamped horizontal line. Average lip thickness clusters around 7.5 to 7.75 mm for most of the rims, but it is predictably thicker for rims with expanded flat lips (\bar{x} = 10.70 mm; n=5), beveled-in flat lips (8.3 mm; n = 1), and splayed lips (\bar{x} = 8.55 mm; n=2). Within the fragmentary rim sample (n = 112), the trends are similar. For lip shape, most are flat (71.4% of 112), while a quarter (25.9%) are round. Average lip thickness is 7.52 mm (see Table 4.3).

Upper rim modification is limited to 13 vessels with castellations. The examples are all incipient in form — seven are pointed, four are rounded, and two rise to a partial but unknown type, and none cause the rim profile to change its shape. Most of the vessels appear to have only one castellation, but one vessel (Vessel 32; Plate 4.3) has multiple points or scallops averaging about 73 mm apart. Within the fragmentary rim sample, only five show evidence of castellations, of which one is incipiently rounded, three are incipiently pointed, and one is rising to form a castellation.

Noticeable shoulder modification is limited to only one vessel (Vessel 3) which has a very pronounced ridge (and a single shoulder sherd which also has a carinated shoulder). Sixteen other vessels have a shoulder junction, but they are either smooth or only slightly pronounced.

Forty-one base sherds were identified in the sample, and several were partially reconstructed to assess their curvature (Plate 4.5). Round (55.3%) and semi-conical (44.7%) base shape were nearly equally represented. Since these bases are related to the globular and semi-conoidal vessel shapes, this ratio suggests that neither form was preferred over the other to any significant degree.

A series of vessel thickness measurements were taken at strategic places on the vessels (see Figure 4.2) and are summarized in Table 4.3 for both the complete and reconstructed vessel samples. To assist in the decorative analysis of the sherd sample (i.e. for proper sherd orientation), it is important to understand any trends in average vessel wall thickness as one moves from the upper rim down to the body. Twelve reconstructed vessels had intact surfaces from the lip to upper body, and their measurements were averaged together for comparison against the overall sample. In both samples, there is no appreciable difference in average thickness from the lip to neck areas, but both averages decrease perceptibly at the shoulder and quite significantly at the body, approximately 25 mm below the shoulder junction. Deliberate thinning of the vessel walls from the neck to body thus appears to be a characteristic trait.

It should be noted that the average thickness for the various locations on the vessel wall display significant internal variation within the sherd sample. This is no doubt due to the

difficulty in establishing consistent locations for measuring the sherds due to their fragmentary nature.

Orifice diameter was measured to provide at least one rough estimate of vessel size. Twenty-eight rims were sufficiently large to measure in this manner, and their inside diameters averaged 21.86 cm (see Table 4.3).

Vessel Decoration

When Stothers originally described the decoration on Princess Point vessels (1976: 142-143; 1977: 55-56), he considered the presence or absence of punctates to be *the* most significant attribute, and this was reflected in his simple typology:

type	sub-type	sub-type variants
Princess Point Punctate	interior punctate exterior punctate	based on motifs based on motifs
Princess Point Plain	decorated undecorated	based on motifs

In his analysis of ceramics from numerous sites, he listed and described dozens of motifs pertaining to the upper rim and neck (Stothers 1977: Appendix A, Parts 2-6) and investigated chronological trends in decoration based on a smaller series of these motifs: plain exteriors, obliques, obliques over horizontals, criss-cross and chevrons, filled "rhombi", and open or filled triangles (1977: 79-80). He then used the trends to seriate the various sites in his study (Stothers1977: Figure 6). Although many of these motifs are illustrated (Plates V-XVII), it is difficult to determine which motifs applied to the upper rim and/or neck, how these motifs contributed to an overall design sequence, to what degree they constituted *the* Princess Point decorative style, or how this style evolved over time.

Bekerman (1995) recently conducted a similar type of study which examined Princess Point ceramic trends through time. His analysis re-investigated five sites employed in Stothers' research, and two more recently investigated sites. A detailed ceramic code originally developed for Iroquoian sites was used to code attributes pertaining to decorative motifs, techniques and tools. The code allowed the attributes to be hierarchically grouped for different levels of analysis. Coupled with radiocarbon dating, Bekerman was able to seriate the sites using specific attributes and/or attribute combinations. Unfortunately, the individual attribute codes were not illustrated nor described in detail, making it virtually impossible to incorporate the Holmedale data into his results, except at a very superficial level.

For the Holmedale analysis, a slightly different approach was taken. Not only are data provided for inter-site comparisons, but information is presented on the decorative sequence employed by the potters. During the preliminary sorting process, it was apparent that vessel decoration was consistently incorporated into a series of discrete zones on the exterior and interior as follows:

Exterior:	zone 1	upper rim (and sometimes to upper neck)
_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		apper in (and comemitee to apper mount)

punctations (or bosses) on the neck

zone 2 neck to lower shoulder (or upper body)

zone 3 lower shoulder (or upper body) to base

Interior: zone 1 upper rim (and sometimes to upper neck)

bosses (punctations) on the neck

zone 2 neck to base

The following discussion, therefore, is organized around these decorative zones.

Only two vessels within the Holmedale sample (or 3.1% of the total) appear to have no decoration at all (Vessels 7 and 54), but they are defined by rim sections for which decorated body areas are possibly missing. Vessel 7 has encircling punctates (Figure A3.1; Plate 4.1).

<u>Exterior Zone 1 Decoration</u>. This zone is strongly linked to the upper rim, so that decoration is limited to a narrow band between the lip and neck. Common motifs include one or two bands of right or left obliques, verticals, or criss-crossed obliques (Figure 4.3). Table 4.4 summarizes the common motifs: while two-thirds of the sample are decorated

with right obliques, the other motifs are generally not well represented. Five vessels lacked any decoration within this zone. It should also be noted that of the 13 castellated rims, eleven (or 84.6%) were decorated with right obliques, one with criss-crossed obliques, and one zone was completely undecorated. This demonstrates a strong preference for that particular motif.

Fragmentary rim sherds (n=108) have similar decorative trends for exterior zone 1: right obliques (64.8%), left obliques (2.8%), verticals (14.8%), criss-cross (8.3%), and undecorated (9.3%). Four specimens also had superimposed bands of obliques on the lip edge or base of zone 1. For the castellated rims.

Table 4.4 Vessels: Exterior Zone 1 Decoration

Decoration	Total
Right Obliques (RO) -single band¹ -double band -RO over VE¹	43 (66.1%) 34 7 2
Left Obliques (LO) single band double band	4 (6.2%) 3 1
Verticals (VE) –single band¹ –double band	9 (13.8%) 8 1
Criss-cross (RO/LO) band	4 (6.2%)
Undecorated	5 (7.7%)
Total	65 (100%)

however, there is no consistency compared to the vessels, since all five displayed different motifs. One has a band of stamped criss-crossed obliques, one is completely undecorated, one has an undecorated zone over a band of stamped right obliques, one has vertical combing or incising, and one has a band of stamped verticals.

As defined, this decorative zone was commonly placed on the upper rim (53 vessels or 83.1%), but the band (or bands) often extended onto the upper neck or neck area (seven vessels, or 10.8%). One vessel even possessed a narrow band of obliques just under the lip (Vessel 5). On three of the undecorated vessels, however, the decorative zone extended past the upper rim, quite possibly to include the entire exterior surface (Vessels 7, 40 and 54; Plate 4.1:a,d).

The tools and techniques used to produce the decoration on a vessel are important cultural attributes to study. Because this is a Princess Point ceramic assemblage, the use of a cord-wrapped tool to decorate the pots is a given. However, in terms of the Holmedale vessel sample, it was apparently the only tool used on *all* the decorated vessels. On only two vessels were other tools also employed. One vessel (Vessel 27) incorporated bands of short linear punctates into an interior zone 1 motif involving a cord-wrapped tool, while another (Vessel 3) used corded punctates in part of its exterior zone 2 motif. Within the fragmentary rim sherd sample, one sherd was decorated just by use of a turtle suture stamp, while another had vertical parallel lines or combing. Drag-stamping with a cord-wrapped tool was noted on four sherds.

The cord-wrapped tool was characteristically stamped in bands, plats, or rows of decoration, but it was dragged stamped on two vessels as a supplemental technique to form a ribbon-like motif. During the analysis, care was taken to investigate two different attributes of the cord-wrapped tool. The first was the type of core around which the cord was "wrapped". Plasticine impressions of all rims were made and subjected to at least 10x microscopic examination. It became clear that not all cords were wrapped around sticks or other rigid objects: under magnification, many impressions showed clear evidence of a weave, i.e. cord-over-cord.

The second attribute examined was the nature of cord twisting. Currently, there is increasing interest in the possible link between cord twisting and ethnicity (Johnson 1996; Petersen 1996), in particular the possible cultural preference towards "s" or "z" twisted cords? To explore this

Table 4.5 Vessels: Use of Cord-wrapped Implement

		Type of C	ord Twist	
Tool*	"s" twist	"z" twist	unknown	total
Cord-wrapped Stick	35	2	6	43 (68.3%)
Cord-wrapped Cord	14		6	20 (31.7%)
total	49 (77.8%)	2 (3.2%)	12 (19.0%)	6 3

question, the cord twist direction was noted whenever possible. Data for both attributes are presented in Table 4.5.

The results indicate that cord-wrapped stick tools were preferred by a two-to-one margin over cord-wrapped cord implements. The fact that the latter tool was so common, however, is itself noteworthy. This tool type is not currently well documented in the Transitional Woodland literature, and its high frequency at the Holmedale site suggests an important cultural trait that must be further investigated. In terms of cord twisting, the overwhelming preference was the "s" twisted cord which occurred on 96% of the 51 vessels for which twisting could be identified.

Table 4.6 Vessels: Exterior Punctates and Bosses

one 1	6 (10.3%)
–within zone	3
-base of zone	3
one 2	46 (79.3%)
-top of zone	35
-within zone	11
one 1/2	6 (10.4%)
otal	59 (100%)
lacement of Bosses	Total
pper Rim	1 (1.7%)
pper Neck	1 (1.7%)
eck	44 (75.9%)
	8 (13.8%)
ower Neck	
ower Neck pper Shoulder	4 (6.9%)

Punctates and Bosses. An important characteristic of Princess Point and associated Transitional Woodland ceramics is the presence of a row of external punctates or bosses (the latter resulting from the protrusion of an interior punctate) at or near the neck of the vessel. This served to demarcate the motifs of the upper rim and lower body (i.e., decorative zones Punctates and bosses are well 1/2). represented at the site. Forty-seven vessels (or 73.4%) display a single row of exterior punctates and interior bosses, four (or 6.3%) have exterior punctates which raise no interior bosses, and seven (or 10.9%) have interior punctates which raise All but two of the 56 exterior bosses. punctated vessels were punched with a

circular-shaped tool (96.6%). An oval-shaped tool was used on the remainder. As detailed in Table 4.6, most of the punctate rows are located at or near the neck, but they were generally incorporated into decorative zone 2. There is no doubt, however, that they were clearly associated with the decorative transition between Zones 1 and 2.

Punctates and bosses are also common within the fragmentary rim sample. However, due to the nature of the sample, fewer punctates or bosses are represented (45.5%), and a larger percentage (37.3%) had exterior punctates but raised no interior bosses.

Exterior Zone 2 Decoration. As defined, this zone applies to the vessel below the neck and usually contains the more varied and complex decorative motifs (and possibly the motifs more likely to define "the regional or local ceramic style"). Unfortunately, it is also an area

which is not usually found intact on the vessel due to fragmentation. The large number of reconstructed vessels at the Holmedale site, however, provides more access to these decorative zones, and this will be useful in investigating stylistic trends.

An examination of the vessel and sherd sample indicates that several different classes of motifs or decorative bands were commonly employed, alone or in combination, to decorate the vessel bodies:

Horizontals: the most familiar (and usually the most common) body motif for Princess Point ceramics Princess Point ceramics are rows or lines of end-to-end stamps (often misidentified as cord-impression) (Figure 4.2). Horizontals usually occur in a zone of multiple rows (over 10 rows is common) just below the neck junction, but it is also placed further down the vessel body and after other decorative bands have been applied. One or several rows also serves as a boundary between decorative bands or as a border:

Bands of Obliques or Verticals: one or more horizontal bands of short stamped elements are often placed between decorative zones such as horizontals or plats, or within oblique or horizontal rows as a contrasting element (Figure 4.2). They are sometimes found as the *last* decorative band on the vessel, just above the transition to the corded surface treatment. These bands can be confused with platted designs if the proper sherd orientation is not known. (Note that 47 shoulder sherds also illustrate this transition: 42.5% have bands of decoration compared to 42.5% with plats);

Zones of Opposed Horizontals, Verticals or Obliques: due to the fragmentary nature of most vessels, these elements are often observed in different combinations of two or more. On the more complete vessel sections, however, the motifs form open or filled triangles, rectangles or rhomboids, which are commonly found further down the vessel body (Figure 4.2);

Panelled Designs: an infrequent but perhaps significant motif class resembles a series of nested horizontal and vertical or oblique lines arranged in a geometric pattern. Stothers called this motif "filled rhombi" (1977: 79; Plate XI), but it is different than the opposed variant described above (Figure 4.2). It is usually found just below the neck juncture;

Platted Designs: like horizontals, the use of plats is another common motif found just below the neck juncture, or more often, further down the vessel body (often just below a zone of horizontals). Basically, these are bands of obliques or horizontal stamps which are tilted to the left or right, or arranged vertically, and then are spaced around the vessel (Figure 4.2). Rarely, a row (or rows) of horizontal stamps (or punctates, etc.) will act as a boundary between tightly spaced plats, or plats will be opposed;

Undecorated Zone: sometimes a narrow band or zone between two decorated areas will be left intentionally undecorated (although not necessarily smoothed).

These decorative bands or zones are characteristically used in combination to form the design sequence. Reference to the design sequence begins by naming the decorative band closest to the top of the zone, which is typically horizontals (HO). As the design

progresses down the vessel, more Tadecorative bands are identified if they are observed, e.g. HO > RO plats of RO > undec (which means "rows of horizontals over a zone of right oblique plats of right obliques over undecorated zone"; see Appendix 3 for full details). An incomplete decorative band is noted by an "?". Decorative data for exterior zone 2 are summarized in Table 4.7. Motifs have been lumped into classes to expedite tabulation and to facilitate explanation.

Horizontals (which were stamped into a row and not impressed) were used as the *first decorative element* on a significant portion of the sample (70.5%; Plates 4.4, 4.6 and 4.7), followed in popularity by the use of plats (16.4%; Plates 4.8 and 4.9), paneled designs (4.9%; Plates 4.3, 4.10 and 4.11a), and simple or opposed obliques (3.3%); only three vessels (4.9%) had no decoration. As

Э	Table 4.7	Vessels:	Exterior	Zone	2 Decoration

Decoration Sequence	Total ¹
Undecorated (Figure A3.1) –undecorated? (Vessels 1, 4)	2 (3.3%)
Horizontals (Figures A3.1, A3.2, A3.3)HO? (Vessels 2, 5, 11, 18, 22-23, 25-30, 33, 34	43 (71.6%) 27 2 3 3 2 1 1 1 1 1
Panel (Figures A3.3, A3.4) -panel > VE > undec (Vessel 3) -panel > plats > undec (Vessels 17, 32)	3 (5.0%) 1 2
Plats (Figures A3.3, A3.5) -plats? (Vessels 6, 9, 10, 24, 42, 43, 57) -plats separated by RO? (Vessels 46, 62) -plats > HO > undec (Vessel 14)	10 (16.7%) 7 2 1
Opposed (Figure A3.3) -OP > HO? (Vessel 39)	1 (1.7%) 1
Right Obliques (Figure A3.1) –RO? (Vessel 37)	1 (1.7%) 1
Totals	60 (100%)

one moves past the first decorative element, which is usually found on the smaller, more fragmentary rim vessels, to the larger, reconstructed vessels (n = 22; see Figures A3.3 and A3.4), a clearer view of the entire design sequence emerges. Table 4.7 illustrates a great deal of individual diversity within the vessel sample, indicating that the Holmedale potters had no dominant design sequence, although they did prefer to lead with horizontals (Plates 4.11-4.16). They also varied the number of decorative bands employed on the body from one to four. Like horizontals, platted designs were either used just below the neck or further down the vessel body and are over twice as popular when used as the second decorative element (52.5% vs 21.0% on 19 vessels). However, in terms of overall preference (and regardless of where the design is located on the vessel body), the use of horizontals still dominates (72.1%), followed by plats (34.4%), bands of obliques or verticals (11.4%), opposed obliques and horizontals (6.6%), panels (4.9%; note that due to the multiple occurrence of any particular design element on the same vessel, the totals will be necessarily be greater than 100%).

The sherd sample provides complementary data. Due to the nature of the fragmentary rim sample, only 66 specimens (58.5% of 112 sherds) yielded information on exterior zone 2 decoration. Many of these (60.6%) were stamped with horizontals, while the balance were mostly undecorated (30.3%). As Table 4.8 indicates, the sample of lower sherds provides more some useful details regarding which design elements were preferred and where. Examples of decorated neck-shoulder sherds are also illustrated in Plate 4.17.

Table 4.8 Sherd Sample: Exterior Zone 2 Decorations

Horizontals	35	(67.3%)	27	(67.5%)	81	(40.1%)	143	(48.6%)
Opposed RO, LO, VE, and/or HO	5	(9.8%)	5	(12.5%)	7	(3.5%)	17	(5.8%)
Plats	17	(32.7%)	14	35.0%)	81	40.1%)	112	(38.0%)
Panels	52		40		1202	(0.5%)	1294	(0.3%)

It is clear that the use of platted designs increases in frequency while horizontals decrease as the decorative zone moves towards the shoulder.

Exterior Zone 3 Decoration. By definition, this zone is undecorated and carries the normal surface treatment characteristic of the vessel. Based on the 12 reconstructed vessels, it commonly began near the upper body or lower shoulder region of the vessel and extended towards the base. None of the 41 base sherds analyzed were decorated.

Interior Zone 1 Decoration. Vessel interiors were characteristically decorated in a fashion very similar to the exterior upper rim, except that the lower body area was never embellished, and the exterior punctates were usually matched with interior bosses. In terms of the sample (see Table 4.9), this decorative zone was usually confined to the upper rim area (48 vessels, or 73.9%) but occasionally extended into the neck or lower neck region (6 or 9.2%). On two vessels, only the upper rim

Table 4.9 Vessels: Interior Zone 1 Decoration

Decoration	Total
Right Obliques (RO) -single band¹ -double band -RO over VE -RO over 2 LO	37 (57.8%) 29 4 3 1
Left Obliques (LO) -single band	4 (6.2%) 4
Verticals (VE) -single band -VE over RO¹ -VE over LO¹	11 (17.2%) 9 1 1
Criss-cross (RO/LO)single bandCC over RO¹	9 (14.1%) 8 1
Undecorated -undecorated -undecorated over VE	3 (4.7%) 2 1
Total	64 (100%)

just below the lip was decorated. The motifs are listed in Table 4.9.

As can be seen, motifs involving right obliques dominate the sample, followed by those with vertical and criss-crossed lines. Although the incidence of double bands is very similar compared to the exterior upper rim, the designs are more often mixed when applied to the interior upper rim.

Interior zone 1 decoration was observed on the 92 fragmentary rims, and the decorative trend mirrors that of the vessels. Right obliques (one or two bands) account for 57.6%, verticals account for 15.2%, left obliques are present on (7.6% of the sample, criss-crossed obliques account for 12.0%, while 7.6% of the vessel interiors are undecorated in this zone.

Interior Zone 2 Decoration. By definition, this zone usually extended from the neck to include the entire vessel interior, but was never decorated with any of the stamped or other designs. Although undecorated, zone 2 incorporated virtually all the interior punctates or bosses. They are present on over 88.5% of the 52 punctated vessels while only four were found at the base of the upper decorative zone (zone 1), and two were at the interface between them.

None of the 281 neck, neck-shoulder or shoulder sherds with extant surfaces had any interior decoration. Punctates or bosses were present but under-represented due to the fragmentary nature of the sample.

<u>Lip Decoration</u>. As a decorative zone, the vessel lip is a very narrow and constricted area, limiting the potter to very simple designs. Basically, the lip was either decorated with a single band of stamps, a single row of end-to-end stamps, or it was sometimes left undecorated. The motif frequencies are as follows: right obliques (25 or 39.7%), verticals (11 or 17.4%), horizontal line (10 or 15.9%), undecorated (8 or 12.7%), left obliques (5 or 7.9%), interrupted horizontal line (2 or 3.2%), criss-crossed obliques (1 or 1.6%), and one motif involving bands of verticals over right obliques. As a rule, the decoration was unmodified at the castellation, except for two examples. On one rim, a small non-decorated gap occurred within a band of obliques, while the other rim had a change in the design orientation.

The analyzed lips on fragmentary rims (n=107) also display similar decorative trends when compared with the vessels: right obliques (41.1%); left obliques (9.3%); verticals (14.0%); criss-crossed obliques (2.8%); horizontals (one, two rows or interrupted, 15.9%); or multiple bands or right or left obliques and/or verticals (4.7%); and undecorated (10.3%). Although most were stamped with cord-wrapped stick, two lips had a row of circular punctates and another had linear gashes.

Ceramics and the Princess Point Decorative Style

Both Stothers (1977) and, more recently, Smith (Smith and Crawford 1995, Smith 1995) have discussed Princess Point ceramics in terms of several key traits: 1) the use of cordwrapped stick for decorated ceramics and cord-roughened surfaces for undecorated ceramics; 2) the use of exterior punctates which (usually) raise interior bosses; and 3) the application of decoration in discrete horizontal bands down the exterior and interior surfaces of the vessel. There is no question that the Holmedale ceramics exemplify these key traits and, therefore, can be confidently attributed to a Princess Point cultural affiliation. Their real value is in their contribution towards an understanding of what constitutes the local "Princess Point ceramic style".

There has been much discussion in the archaeological literature of what constitutes "style", and how it is studied through material culture. The key characteristics of the Holmedale ceramics are as follows:

- globular or semi-conoidal shaped vessels with out-flaring or slightly out-flaring rims and flat lips;
- exterior upper rim decoration limited to one or sometimes two bands of obliques stamped with a cord-wrapped tool;
- a single row of encircling circular punctates located at the neck. These usually raise
 interior bosses and are usually positioned at or near the juncture between
 decorative zones located on the upper rim and neck-body; and
- neck-body decoration consisting of one or more horizontal bands of designs, including rows of horizontal lines, larger zones or narrow bands of oblique or vertical lines, zones of opposed oblique, vertical and/or horizontal lines, a variety of uni-directional or opposed plats, and panels of nested, right-angled lines. The sequence of these designs on the vessel body is highly variable, but often began with (and sometimes was limited to) a zone of horizontals. The designs were also characteristically stamped with a cord-wrapped implement.

4.1.3 Pipes

The practice of smoking is documented at the site, both in terms of indirect evidence of tobacco seeds from the flotation samples, and a small but impressive sample of pipes. A total of 17 bowl fragments was recovered during the Holmedale excavations, and these are listed in Table 4.10. Three different bowl styles are represented: tubular or cylinder, barrel, and vasiform. Because the latter two have similar rim profiles, and due to the

fragmentary nature of the pipe sample, there could be some confusion in assigning bowl types to the sherds. Be that as it may, ten pipe bowls (58.8%) are classified as *barrel* compared to three as *vasiform*, and two as *tubular*. The lips are either round or flat, and all are plain. Exterior variation varies somewhat: over half (58.8%) are undecorated, but the balance was embellished with horizontal rows of cord-wrapped stick stamps with or without obliques.

Table 4.10 Ceramic Pipes: Descriptive Data

Provenience	Cat #	Nature of Specimen	Comments
479-216	1231	bowl fragment with rim	Plate 4.18: ctubular bowl with plain, round lipexterior decoration consists of at least 4 rows of horizontal (HO) CWS stamps
490-222	305	bowl fragment with rim	-Plate 4.18: dbarrel bowl with plain, flat lip-exterior is undecorated
490-229	1232	bowl fragment with rim	 barrel bowl with plain, flat lip -exterior decoration consists of right oblique (RO) CWS stamps over two rows of HO stamps
493-224	414	bowl fragment	Plate 4.18: fbarrel bowl; missing lipexterior decoration consists of two widely-spaced rows of HO CWS stamps filled with RO CWS stamps
494-222	428	bowl fragment with rim	–short barrel bowl with plain, round lip–exterior is undecorated
494-224	452	bowl fragment with rim	-Plate 4.18: b-barrel bowl with plain, round lip-exterior is undecorated
495-224	493	bowl fragment with rim	-barrel bowl with plain, flat lip -exterior is undecorated
496-222	531	bowl fragment with rim	barrel bowl with plain, flat lipexterior is undecorated
496-224	560	bowl fragment with rim	 tubular bowl with plain, flat lip and angular collar exterior is undecorated
497-222	575	bowl fragment with rim	 -Plate 4.18: i -barrel bowl with plain, round lip -exterior decoration consists of at least faint rows of HO CWS stamps
497-224	597	bowl fragment with rim	 -Plate 4.18: h -barrel bowl with plain, round lip -exterior decoration consists of two rows of HO CWS stamps just below the lip; there are traces of decoration along one lateral edge (possibly a platted design?)

Provenience	Cat #	Nature of Specimen	Comments
Feature 1	1233	complete bowl	Plate 4.18:avasiform bowl with plain, round lipexterior is undecorated
Feature 8 —ne quad (level 2)	1237	bowl fragment with rim	–vasiform bowl with plain, round lip–exterior is undecorated
	1238	bowl fragment with rim	-unknown bowl with plain, flat lip-exterior decoration consists of at least 2 rows of HO CWS stamps
-se quad	1.2e+07	bowl fragment with rim	 barrel bowl with plain, round lip; rim appears to be collared exterior is undecorated
Feature 52	1242	bowl fragment with rim	–Plate 4.18: g–vasiform bowl with plain, round lip–exterior is undecorated
Feature 68 -north ½	1104	bowl fragment	–unknown bowl; lip missing–decoration consists of multiple rows of HO CWS stamps

In addition to the bowls, another seven pipe bowl or elbow fragments were recovered as well as six stems, some of which have been reconstructed (AgHb-191: 1239, 1240, and 558; Plate 4.18: j-l). Four have a D-shaped cross-section, and one each is rectangular and oval (Stothers 1977: 59).

4.2 Flaked Lithics

by Robert H. Pihl and Deborah A. Steiss

Like ceramics, flaked lithics can offer significant information about Princess Point culture, technology and economy. The flaked lithic assemblage from the Holmedale site is both impressive in terms of absolute numbers and variety. The sample includes 108 formal tools (e.g. projectile point, drills, etc.), 287 expedient tools such as random scrapers and utilized flakes, and 8,756 pieces of debitage such as flakes, shatter and core fragments. The total assemblage weighs over 5.3 kilograms.

Table 4.11 compares the various samples obtained from the different types of excavation proveniences. The data indicate that while a third (35.4%) of the overall sample derives from the features, a larger portion (over 44%) comes from the various 1 m² excavation units associated with features and/or from the central core area of the site. This is in sharp contrast to the ceramic data presented in Table 4.1 which indicate that the features contributed over 65% of the overall sherd sample (and over 84% of the identified vessels).

Clearly there are different patterns of disposal and artifact loss or discard for lithics and ceramics at the site.

Table 4.11 Flaked Lithics: Breakdown of Sample

	1m² tes	t units	1m ² excavation units*		5m² units (posts)		Features		Total
Lithics Category	X	%	×	%	x	%	X	%	x
Formal Tools									
# specimens	17	15.7	61	56.5	1	0.9	29	26.9	108
weight (g)	39.8	15.2	123.8	47.4	1.1	0.4	96.6	37	261.3
Expedient Tools									
# specimens	54	18.8	100	34.8	4	1.4	129	45	287
weight (g)	100.3	21.3	176.7	37.4	8.9	1.9	185.5	39.4	471.4
Debitage and Cores	;								
# specimens	1350	15.4	4016	45.9	73	8.0	3317	37.9	8756
weight (g)	819.3	17.9	2051.8	44.8	105.5	2.3	1603.2	35	4579.8
Total									
# specimens	1421	15.5	4177	45.7	78	0.8	3475	38	9151
weight (g)	959.4	18.1	2352.3	44.3	115.5	2.2	1885.3	35.4	5312.5

4.2.1 Formal Tools

By definition, these are tools that were purposefully manufactured using a specific concept or norm that was usually replicated across the site proper and beyond: these represent the so-called tool type. They include the various forms of projectile points, drills, scrapers, bifaces, etc. that are familiar on Princess Point sites across southwestern Ontario.

Projectile Points

The site yielded two distinctive projectile point forms, both triangular in shape, and defined primarily by overall length (an arbitrary cut-off of 30 mm was employed) and manufacturing. The larger version is a medium-sized point with an average length of 37.9 mm, width of 23.9 mm, and thickness of 9.8 mm (Table 4.12), and characterized by an equilateral or isosceles triangular shape and a concave, slightly asymmetrical base. This

Table 4.12 Flaked Lithics: Large Projectile Points

				N	leasurem	ents (mm)*		
Provenience	Cat #	Point Shape	Base	L	W	Ratio	Th	Comments
485-224	10549	triangular	slightly concave	37.6	23.5	1.6 : 1	6	Plate 4.20:e complete
490-210	10606	triangular	slightly concave	41.4	32	1.3 : 1	5	Plate 4.20:b complete
491-221	10758	triangular	slightly concave	[46.0]	29.1	[1.6 : 1]	5	Plate 4.20:à missing tip
492-220	15161	triangular	concave	33.1	19.8	1.7 : 1	6	-Plate 4.20:g -missing lateral margin
295-235	15246	triangular	slightly concave asymmetrical	37.4	18.6	2.0 : 1	5	Plate 4.20:f complete
Feature 8 -ne quad (level 2) -nw quad (level 2)	1e+09	triangular	straight asymmetrical	45.3	24.5	1.8 : 1	6	Plate 4.20:c complete (joined)
-sw quad	10256	triangular	straight	32.6	19.6	1.7 : 1	10	-Plate 4.20:h -complete but not thinned
			⊼	37.9	23.9	1.6 : 1	6	
			1δ	4 .9	5.1	n/a	2	

point is traditionally classified as the "Levanna" type (Ritchie 1961: 31, Plates 15-16). Made from a large flake, these points are commonly well made and thinned by extensive secondary retouch.

The site yielded seven examples which are illustrated in Plate 4.20 (descriptive data are presented in Table 4.12). An average length-width ratio of 1.6:1 was calculated for these larger points.

The second triangular type is considerably smaller and seems to resemble an expedient version of the larger form, often consisting of only lightly modified flakes. Some of the points, however, are well made miniature versions. Although it is plausible that these represent juvenile points, it is also possible that they are specialized points for hunting smaller game. Descriptive data for the 14 points are presented in Table 4.13 and illustrated in Plate 4.22.

Table 4.13 Flaked Lithics: Small Projectile Points

					Measurem	ents (mm)*		_	
Provenlence	Cat#	Point Shape	Base	L	w	Ratio	Th	Comments	
480-220	12415	triangular	slightly convex		14.9	n/a	4	Plate 4.21:e base only	
485-223	10525	triangular	straight	20	15	1.3 : 1	3.7	-Plate 4.21:j -complete; thermally altered	
489-220	15093	triangular	straight	18.5	16.4	1.1 : 1	3.8	-Plate 4.21:g -complete	
489-222	15101	triangular	straight	[24.6]	14.3	[1.7 : 1]	2.8	-Plate 4.21:h -missing tip	
489-223	15106	triangular	slightly concave asymmetrical	[32.9]	16.4	[2.0: 1]	5.8	Plate 4.21:k missing tip	
490-210	10607	triangular	convex	27.5	16.8	1.6 : 1	4.7	-Plate 4.21:n -complete	
490-221	10673	triangular (with slight side-notches)	slightly concave asymmetrical	22.7	17.4	1.3 : 1	4.5	-Plate 4.21:i -complete; thermally altered	
494-224	15212	triangular	straight	[24.5]	18.1	[1.4 : 1]	4.5	-Plate 4.21:d -missing tip; thermally altere	
495-224	15231	triangular	concave	17.6	16.9	1.0 : 1	5	-Plate 4.21:I -complete	
496-222	10868	triangular	convex	25.4	13.7	1,8 : 1	4	-Plate 4.21:o -complete; ground base	
497-224	15286	triangular	concave asymmetrical	21.1	16.8	1.3 : 1	4.6	Plate 4.21:c complete	
Feature 8 -nw quad (Ivi 2)	10158	triangular	straight	[34.0]	15.7	2.2 : 1	4.8	-Plate 4.21:f -missing tip	
Feature 51	12135	triangular asymmetrical	straight	27.4	16.8	1.6 : 1	6	-Plate 4.21:m -complete	
Backdirt	12151	triangular	slightly concave asymmetrical	[24.5]	[20.0]	[1.2 : 1]	5.6	Plate 4.21:b missing corner	
			⊼	22.5	16.1	1.4:1	4.6		
		•	1δ	3.9	1.3	n.a	0.9		

The bases tend to be concave and asymmetrical, but many more are straight compared to the larger version. Average measurements are considerably less: 22.5 mm long, 16.1 mm wide, and 4.6 mm thick; the average length-width ratio is predictably less: 1.4:1. Thermal alteration was observed on three points, and several showed evidence of extensive edge damage from secondary use.

In addition to the prevalent triangular point form, two other miscellaneous points were also recovered. The first, from Feature 68, is a narrow-bladed, corner-notched variety (AgHb-191: 12752) which resembles the Innes type (Table 4.11; Plate 4.20:i), a Late Archaic point

dating to ca. 1400 B.C. (Lennox 1987). Missing its tip, this specimen has a straight, asymmetrical base, a triangular-shaped blade measuring 22.5 mm wide and 8.2 mm thick, and an incomplete length of 51.5 mm.

The second point (AgHb-191: 12955) is a broad-bladed, stemmed point (Plate 4.20:d; Table 4.11) which is reminiscent of the Perkiomen type (Ritchie 1961: 42-43, Plate 23). This Broadpoint style also dates to the Late Archaic, ca. 1500 B.C. (Ellis et al. 1990: 99-106). The specimen is complete and measures 48.1 mm long and 36.0 mm wide, giving it a length-width ratio of 1.3:1. The base is straight and measures 17.3 mm wide and 9.6 mm high, the blade is excurvate in shape, and the point has an overall thickness of 8.9 mm. It was also found in a feature -- one of the large storage (refuse) pits, Feature 8. Since both "exotic" points were recovered in features dating to the principal site occupation, i.e. during the Transitional Woodland, they probably represent found and curated items.

Bifaces

In addition to projectile points and drills (see below), several other biface varieties were recovered from the site.

A single large hafted biface (AgHb-191: 10095) was recovered from Feature 8. Made from Onondaga chert, it has a long triangular blade measuring 69.2 mm long and 46.3 mm wide, and slight but prominent shoulders leading to a squared base (Plate 4.22:i) measuring 42.9 mm wide and 17.9 mm high. The base is not ground, but both lateral margins have extensive use-damage. With a total length of 87.1 mm, and a maximum thickness of 8.9 mm, the specimen was probably utilized as a knife. Two other recovered biface fragments (AgHb-191: 10387, 10650) have similar hafting elements (Plate 4.22:f, j), and these collectively might suggest a formal tool type at the site.

A second biface type is also large, somewhat less refined, but only represented by two fragmentary examples. A base to mid-section portion (AgHb-191: 12352) measures 37.7 mm wide and 8.1 mm thick and has an incomplete length of 51.4 mm. It has a convex base shape and displays heavy use-wear along both lateral margins (and apparently extensive plough damage along one). A tip fragment with comparable width dimensions was also found but unfortunately does not mend with the larger piece (Plate 4.22:k,g). Perhaps these represent a second knife variety.

A single biface example has a squat, triangular form with rounded corners (Plate 4.22:a). It has been thinned with fine, secondary retouch flaking and appears to have slight shoulders and a tapered blade or bit which is now missing. It might conceivably represent

a drill base, although its height of approximately 22 mm would seem to make that unlikely. For the moment, its function remains unknown.

Another solitary biface specimen also defies explanation. This is thick and crudely flaked, roughly oval in shape, and all lateral edges have been extensively ground (Plate 4.22:b). With no bi-lateral or bi-polar battering evident, its function as a wedge seems doubtful. Perhaps it was used to smooth or crease a soft material such as bark or hide, although no polishing was noticed.

Finally, two extremely crude bifacial forms were recovered from the site, and these might be described as blanks: one is triangular in shape, the other is diamond-shaped (Plate 4.22:c,e). Both are thick with a single prominent ridge or humped-back, and neither have any evidence of edge damage through use. The triangular form measures 34.5 mm long, 23.3 wide, and 9.4 thick, and it falls within the means of the larger projectile points (see above). The second form is smaller, measuring 18.5 mm long, 19.1 mm wide, and 10.1 mm thick, and seems to be without a finished referent (it does not resemble the drill blank discussed below).

The biface sample also includes scores of fragments in various stages of manufacturing, from blanks to finished forms, including 24 tips, 12 mid-sections (Plate 4.22:h), six mid-section to tip portions (Plate 4.22:l-m), one base to mid-section fragment, and 11 base pieces (see Appendix 4). Of the 54 specimens, only two are thermally altered, and all but one was manufactured from Onondaga chert, the exception being Ancaster chert (Plate 4.22:m). The very high incidence of tip fragments is very interesting, especially since comparatively few "tipless" points and bifaces were recovered during the excavations: an attempt to mend tips and mid-sections netted only one join. Many of the tips have hinge fractures, and perhaps they broke during impact as a projectile or, conversely, while being used to pry or punch an object.

Drills

Drills are particularly well represented at the Holmedale site consisting of 11 complete or base sections, five drill tips, and three mid-sections. Descriptive data are presented in Table 4.14, and several base styles are indicated: the most popular is the expanding base (Plate 4.23:a-c, g-i) which is followed in frequency by the T-base (Plate 4.23:d, f) and then rounded or convex base styles (Plate 4.23:j-k). Although the bits on many specimens were broken, the average length is calculated at 28.7 mm, width is 10.7 mm, and bit thickness is 6.0 mm. The bit on one drill (AgHb-191: 15051) is unusual in that it is flat (like a slot screw-driver) and not pointed. Perhaps it was used as a gouge instead of a drill.

Table 4.14 Flaked Lithics: Drills

				Measureme	nts (mm)*		_
Provenience	Cat #	Base Shape	L	Base W	Bit W	Th	Comments
480-215	12376	expanding	20.6+	30.7	15.7	8.4	Plate 4.23:a missing tip
480-225	12430	modified "T"	27.0+	27.3	10.4	6.4	-Plate 4.23:d -missing tip
485-223	10526	expanding	29.5	14.8	11.1	5.3	-Plate 4.23:h -complete
487-224	15051	rounded	30.5	18.9	10.5	6	Plate 4.23:j complete; tip is flat not pointed
490-220	10649	" T "	20.0+	18.0+	11.2	4.5	–Plate 4.23:f–missing tip and corner
480-235	10817	expanding	19.8+	21.9	14.1	8.7	-Plate 4.23:b -missing tip
480-235	12461	expanding	25.2	14.3	5.9	5.8	Plate 4.23:g complete
Feature 8ne quad (level 1)	10068	expanding	23.6+	18.4+	11.9	5.3	-Plate 4.23:c -missing base
–ne quad (level 2)	12536	expanding	33.5	19.4	6.4	6.4	-Plate 4.23:i complete
Feature 49	12686	n/a	24.6	12.2	9.3	5	Plate 4.23:e complete; blank
Feature 69 —south ½	12844	rounded	16.1+	13.6	11.1	3.9	Plate 4.23:k complete
		×		22.5	16.1	4.6	
		1δ		3.9	1.3	0.9	

Hafted and Crescent Scrapers

By definition, scrapers derive from unifacial flakes with steeply retouched dorsal edges that were employed to scrape and/or prepare hides or other soft material. They are commonly expedient tools, i.e. flakes that were picked up, used, and then discarded. In other words, tools which show very little knapping workmanship or consistent form. There are some scraper forms, however, that have been heavily modified into recognizable "types" and which were probably retained for repeated use. Representatives of two such types were recovered at the Holmedale site.

The first is the *hafted end scraper* which includes four specimens (Plate 4.23:I-o; Table 4.15). The three complete examples have tapered hafts, but the actual element varies: one is plain, another has prominent shoulders, and the third is notched. The scrapers average 32.5 mm long, 22.7 mm wide, and 6.8 mm thick. All were manufactured from Onondaga chert, and none was thermally altered. Although the main working area is located at the distal or bit end of these tools, most had lateral working edges as well: three were steeply retouched, and one showed use-wear on alternate opposing margins.

The second variety is the *crescent side scraper* which is only represented by a single specimen (Plate 4.23: p). This tool has a distinctive crescent shape with steep retouch occurring on the convex lateral margin. The proximal end is thinned and may have served as the haft. The tool measures 27.0 mm long, 13.5 mm wide, and 5.2 mm thick.

Table 4.15 Flaked Lithics: Hafted Scrapers

Cat # V	Veight 2.5	Flake Type	Haft	Location of Use ¹	100	*******		The state of the s
12368	2.5			5. 550	LI NA	W	Th	Comment
		secondary knapping	tapered, notched	DD LL-D LL-V	31.8	21.9	4.3	-Plate 4.23:n -end scraper with double utilized lateral margins
10488	6.2	shatter	tapered	D-D RL-D LL-D	33.1	20.1	9.1	–Plate 4.23:m –end-double side scraper
10675	5.5	shatter	tapered, shouldered	D-D RL-D LL-D	[30.7]	27.6	8.7	–Plate 4.23:l –end-double side scraper
15222	2.1	shatter	unknown	D-D LL-D	[21.0]	21.1	5	-Plate 4.23:0 -end-side scraper
				₹	32.5	22.7	6.8	
				δ	0.9	3.4	2.5	
RL = right lateral LL = left lateral	_		D = dorsal V = ventral					
L	10675 15222 RL = right lateral	10675 5.5 15222 2.1 RL = right lateral	10675 5.5 shatter 15222 2.1 shatter RL = right lateral D = distal LL = left lateral P = proximal	10675 5.5 shatter tapered, shouldered 15222 2.1 shatter unknown RL = right lateral D = distal D = dorsal LL = left lateral P = proximal V = ventral	RL-D LL-D 10675 5.5 shatter tapered, D-D shouldered RL-D LL-D 15222 2.1 shatter unknown D-D LL-D ≅ RL = right lateral D = distal D = dorsal B = bifac	RL-D LL-D RL-D RL-D	RL-D LL-D 10675 5.5 shatter tapered, Shouldered RL-D LL-D 15222 2.1 shatter unknown D-D LL-D \$\overline{2}\$ 32.5 22.7 \$\overline{5}\$ 0.9 3.4 \$\overline{8}\$ RL = right lateral D = distal D = dorsal B = bifacial	RL-D LL-D RL-D

4.2.2 Expedient Tools

Expedient tools are those that do not receive much formal modification or shaping by the user. Usually these are flakes (and shatter) that are picked up and used for one specific task, e.g. cutting, scraping or piercing, and then discarded. Edge modification varies from incidental damage to purposeful retouching along the intended margin of use.

In this analysis, the expedient tool category includes not only the "flake" tools such as random scrapers, gravers, and spokeshaves, but also wedges which were commonly made from exhausted cores and core fragments. The expedient tool sample numbers 287 specimens and descriptive data on all of them can be found in Appendix 5.

Random Scrapers

The location of the working edge on these scrapers varies widely with the type and shape of flake selected, hence the qualifying term "random". For purposes of this analysis, the location was simplified to either *side* or *end*. Flakes were selected for a thicker working edge which is characteristically convex or often straight and oriented towards the distal end or corner but occasionally along a lateral margin. Although extensive shaping is by definition lacking, the margins often display continuous, steep and deliberate retouch flaking, often leading to regular shapes: double side scrapers (Plate 4.24: j-k), and end or side-end scrapers (Plate 4.24: m-o). The sample of 68 specimens break down into the following scraper categories: side, double side, double side-end, side/utilized flake, side/spokeshave, end, end-side, end/utilized flake, and end-side/utilized flake (Table 4.16). As can be seen, 10 (14.7%) of the scrapers were combination tools.

These scrapers were manufactured from Onondaga chert and were infrequently thermally altered (Table 4.16). In general, only secondary knapping flakes and shatter (of related quality) were selected, no doubt because of size and thickness factors.

Table 4.16 Flaked Lithics: Random Scrapers

			F	lake Ty	rpe*				Non-Ono	ndaga Cherts
Scraper Varieties	PR	PT	sk'	SR	SH	Total	%	Thermally Altered (%)	Ancaster	Upper Mercer
side		3	8		11	22	32.4	5 (22.7)	1	1
double side			7			7	10.3	1 (14.3)		
double side-end			2			2	2.9	1 (50.0)		
side/utilized flake		1	1		1	3	4.4			
side/spokeshave					1	1	1.5			
end	1	2	6		3	12	17.6	1(8.3)	1	
end-side			5	1	9	15	22.1	1 (6.7)		
end/utilized flake			2		1	3	4.4			
end-side/utilized flake			1		2	3	4.4	1 (33.3)		

total	1	6	32	1	28	68	100	10	2	1
%	1.4	8.8	47	1.4	41			14.8		
*Flake types: PR and P	T = prim	ary redu	iction a	nd thinni	ing; SK	and SR :	= seconda	ıry knapping an	d retouch; SH	= shatter.

Gravers

These are specialized flake tools with a pointed working edge indicative of boring or piercing. Edge modification along one or both lateral margins can be incidental, consisting of continuous or discontinuous zones of minute flake scars, or purposeful retouching.

There are 10 gravers in the Holmedale sample (Plate 4.24: e-g), and six had other use-wear usually along a lateral margin (see Appendix 5). All were manufactured from Onondaga chert, and none was heat altered. Secondary knapping flakes were preferred (70%) followed by primary thinning flakes.

Spokeshaves

These are specialized tools used for shaving and shaping wood or a similar product. The working edge is concave in shape and usually consists of a discontinuous zone of small, acute-angled flake scars. The Holmedale sample includes 17 specimens (Plate 4.24:h-i), all of which were manufactured from Onondaga chert. Three were thermally altered, and over half (58.8%) derived from secondary knapping flakes. The remaining specimens were made on shatter (29.4%).

Within the sample, ten (58.8%) were considered single spokeshaves, one was a double version (Plate 4.24: i), and six (35.3%) were combined with one or more zones of edge damage through incidental use.

Utilized Flakes

Although the tool name does not imply a particular kind of use, the type of observed edge damage usually suggests that some form of cutting or slicing took place. The working edge is usually straight (or convex) in shape, and although commonly located along the longer lateral margin, it frequently occurs at the distal end as well. Flake scars are small and mostly discontinuous.

The Holmedale sample totals 178 utilized flakes, two-thirds (69.1%) of which can be classified as a *side* flake tool, roughly a quarter (23.1%) as an *end* variety, and the rest as a combination *side-end* flake tool. Secondary knapping flakes were selected by a wide margin over shatter (61.2% vs 21.4%), but an unusually large portion of the sample includes the larger primary flakes or core fragments. Perhaps a high magnification use-wear study on the sample would discover if different kinds of edge damage characterize these flake types, which, in turn, would suggest different tool functions.

Except for four specimens, the sample was manufactured from Onondaga chert, the exceptions being Ancaster and Upper Mercer cherts. Almost 17% was thermally altered.

Table 4.17 Flaked Lithics: Utilized Flakes

				Flake	Type*					Non-Onondaga Cherts			
Tool Varieties	CF	PR	PT	SK	SR	SH	Total	%	Thermally Altered (%)	Ancaste r	Upper Mercer		
side	1		8	73	2	39	123	69.1	25 (20.3)	1	2		
end		1	8	27	1	5	42	23.6	2 (4.8)	1			
side-end			1	9		3	13	7.3	3 (23.1)				
tota	1	1	17	109	3	47	178	100	30 (16.9)	2	2		
%	0.6	0.6	9.5	61.2	1.7	26.4							

*Flake types: CF = core fragment; PR and PT = primary reduction and thinning; SK and SR = secondary knapping and retouch; SH = shatter.

Wedges

Although over half (58.8%) of the 12 wedges recovered from the Holmedale site derived from primary thinning or secondary flakes, a large number came from recycled biface or exhausted core fragments (Plate 4.24: a-d). The tools have a square shape (length-width ratio = 1.0:1) with average measurements of 21.7 mm long, 21.8 mm wide, and 7.4 mm thick. Most have some amount of bi-polar or bi-lateral crushing from use, and at least two have secondary use-damage on the lateral margins probably due to cutting some material. All wedges were made from Onondaga chert, and none was thermally altered.

Table 4.18 Flaked Lithics: Wedges

				Mea	surements	(mm)	
Provenience	Cat#	Flake Type	Thermal Alteration	L	W	Th	Comments
479-215	12279	secondary knapping	yes	24.3	17.4	4.3	distal crushing marginal use damage
479-216	12295	primary thinning	yes	18.6	17.8	5.7	-distal / lateral crushing
480-220	12414	primary thinning		18.2	19.9	6.7	bi-lateral crushing
486-224	10564	core fragment		21.5	12.5	10.2	distal crushing
489-221	15099	primary thinning		29.7	30.1	8	Plate 4.24:abi-polar/bi-lateral crushing; heavy lateral use-wear
497-223	10904	core fragment		19.5	23.5	7	distal crushing
480-235 -post #	12459	unrefined biface		20.8	17.6	4.2	bi-polar crushing
Feature 8 -sw quad	10260	primary thinning	yes	20.3	26.3	5.5	Plate 4.24:b bi-lateral crushing
-se quad	10192	core fragment		25.5	28.7	14.2	lateral crushing
Feature 48	11084	biface fragment		23.1	22.5	7.1	Plate 4.24:c bi-lateral crushing
Feature 68 -north 1/2	12738	secondary knapping		17.7	19.3	4.7	bi-polar crushing
	12751	primary thinning		21.5	26.3	11.3	Plate 4.24:d bi-polar crushing
			×	21.7	21.8	7.4	
			1δ	3.5	5.3	3.1	

4.2.3 Cores and Debitage

Cores and debitage are commonly the largest flaked lithic artifact category found on most archaeological sites, and the Holmedale site is no exception. The sample was carefully sorted into flake and chert types, and the presence/absence of thermal alteration was noted. Due to the size of the collection, only feature samples were analyzed in full, the others were sampled: approximately 50% of the test-unit and block excavation samples were examined. The data are presented in Table 4.19.

The results indicate that both secondary knapping and retouch flakes predominate: these are indicative of flint-knapping activities that are more focused on tool manufacturing and refurbishing than core reduction. The sample does, however, include approximately one

dozen core fragments, chunks of Onondaga chert which show heavy battering due to attempts to remove flakes. The larger specimens indicate that both rotated and bi-polar cores were used.

Table 4.19 Flaked Lithics: Debitage

Flake Type	Sam	Sample Size		Thermally Altered		Non-Onondaga Chert Type*							
гіаке туре	#	%Total	#	%Туре	SE	AN	НА	UP	co	вв	KP	FR	UN
Primary Thinning	108	1.2	29	26.9		1							
Secondary Knapping	2160	24.7	319	14.8	1	8		3	1	1	5		
Secondary Retouch	2140	24.4	212	9.9		3	2	9			4		
Shatter	1790	20.4	393	22	1	3	1	7			2	1	1
Core Fragment	14	0.2	1	7.1									
Combined Sample	2544	29.1	313	12.3	3	41		3					6
Total	8756	100	1267	14.5	5	56	3	22	1	1	11	1	7

*Chert Types: SE = Selkirk; AN = Ancaster; HA = Haldimand; UP = Upper Mercer; CO = Collingwood; BB = Bois Blanc; KP = Kettle Point; FR = Flint Ridge; UN = Unknown.

Although Onondaga chert is predominant, there are traces of several cherts considered exotic to the Brantford area, notably Kettle Point chert (from Lake Huron), Collingwood chert, and Upper Mercer chert from Ohio.

4.3 Ground Stone

by Robert H. Pihl and Martin S. Cooper

Ground stone objects are poorly represented within the Holmedale artifact assemblage, which includes only six complete specimens and several pieces of debitage.

Two modified stones, interpreted as netsinkers, were recovered from ploughzone deposits during the excavations. The first is flat, ovoid in shape, and measures 81.1 mm long, 76.3 mm wide, and 15.3 mm thick (AgHb-191: 6001). Made from a sandstone pebble weighing 96.9 gr, it has a single bifacial notch on one lateral margin (Plate 4.25:a), although two secondary scars (probably a result from recent ploughing) were also noted in two other locations. It was found in Unit 490-220.

The second specimen was also fashioned from an oval sandstone pebble but is somewhat thicker, measuring 81.5 mm long, 68.8 mm wide, and 29.5 mm thick; it weighs in at 248.0 gr. A transverse groove, measuring 32.1 mm long and approximately 6.9 mm wide intersects one lateral margin but only appears on one surface (Plate 4.25:b). It was found in Unit 480-209.

Netsinkers were likely used as drogue anchors to weigh down the bottom of gill nets and also may have been used on seine nets (Cleland 1982). Given the riverine location of the site, and the presence of former shallow embayments along the Grand River shore, gill nets could easily be set by canoe or simply by wading out into the river. This would permit the easy capture of exceedingly large quantities of fish, such as sturgeon, especially during the spring spawning runs (see Chapter 6.3.6).

The single hammerstone to be recovered is circular in shape, lenticular in cross-section and measures 92.6 mm long, 95.6 mm wide, and 44.9 mm thick (AgHb-191: 6003). Derived from a granite pebble and weighing 532.1 gr, it exhibits two circular zones of pecking on opposite lateral margins, one nearly twice the size of the other. The hammerstone was found in a post mould during recording of Unit 480-215 (Post #30). This post also contained a complete bone awl and an incised beaver incisor, and it may have functioned as a ceremonial offering.

A single pitted abrader was recovered from the ploughzone of Unit 500-220. The specimen is a small, sandstone pebble, measuring 53.1 mm long, 43.7 mm wide, and 29.1 mm thick, and it has an ovoid depression—17.7 mm by 15.1 mm, and 3.2 mm deep —on one of the surfaces. The artifact could have been used to grind the points on bone and/or antler tools.

No complete or finished celts are included in the ground stone sample. Only a single celt blank fragment, one reworked celt (?) portion, as well as six edge framents and surface spalls were recovered. All the material is a green-black, fine-grained chloride schist.

The first specimen is a longitudinal flake (complete with flake scar), measuring 78.6 mm long, 36.7 mm wide, and at least 11.7 mm thick, which has been partially worked into a celt-like form or blank (AgHb-191: 5005). It weighs 58.0 gr, and the lateral edges (at least on the one intact surface) have been roughly ground and flaked to approximate a ridged cross-section. Both ends appear to have been broken, but in longitudinal cross-section, the intact portion has a slight tapered profile.

The second artifact, while made from the same dark-coloured chloride schist as the other items, maintains few celt-like attributes. Instead, it resembles a heavily battered chert core which has been used (or re-used) as a wedge or pièce esquillée (AgHb-191: 6006). The

specimen was excavated from Feature 8 (Level 1), measures 24.5 mm long, 37.8 mm wide, and 8.2 mm thick, and weighs 10.2 gr. Both surfaces were flaked, and the one intact lateral edge has been finely ground into a bifacial cross-section. Both proximal and distal edges (previously broken) show extensive battering and use as a wedge, probably for splitting bone or wood.

The last group of ground stone artifacts are flakes and surface spalls probably from one of the elusive finished celts (Table 4.20). These provide additional evidence for the presence of wood-working tools on the site.

4.4 Modified Bone, Antler and Shellby Martin S. Cooper and Robert H. Pihl

During the course of the inventory (Chapter 6) of faunal material from the 1996 Holmedale excavations, 27

Table 4.20 Ground Stone: Celt Fragments

Cat #	Provenience	Type	Weight (gr)
6007	Feature 68	flake	7.6
6008	479-199	flake	0.6
6009	497-224	surface spall	5.9
6010	485-221	surface spall	7.9
6011	480-185	flake	0.8
6012	Feature 8 (SW Quad)	surface spall	3.6

specimens of bone as well as antler and shell were noted to have some form of intentional modification. These were removed from the faunal assemblage for separate analysis. The majority of the modified material (88.9%) is animal bone, of which the following artifact classes are represented: awls, worked rodent incisors, pottery markers, and miscellaneous objects.

Table 4.21 Modified Bone: Awls

Cat#	Provenience	Measurements (mm)			
		Length	Width	Thickness	Comments
5001	Feature 69	130	45	24	-Plate 4.26:a proximal ulna, white-tailed deer
5002	480-215 (Post 30)	72	12	8	-Plate 4.26:c cortical splinter from large mammal bone
5003	Feature 1 (Level 5)	54	8	6	-Plate 4.26:d splinter of bird long bone
5004	495-224 (Plough zone)	33	4	2	-Plate 4.26:e splinter of bird bone
5012	Feature 8	123	5	4	-Plate 4.26b radius, bird

Five bone awls were identified in the faunal assemblage. Selective descriptive data for the awls are presented in Table 4.21 and several are illustrated in Plate 4.26.

The first specimen (AgHb-191: 5001) is complete and was manufactured from the proximal ulna of a white-tailed deer. It is highly polished at the tip and exhibits small cut marks on the proximal end. The proximal end of the ulna or olecronon provides a very functional handle for this tool (Plate 4.26:a). Similar ulna awls manufactured on both deer and bear ulnae have been found on other Iroquoian sites in Ontario, such as the Uren site (Wintemberg 1928: 91). A modified fragment of a white-tailed deer olecronon was also recovered from the Holmedale site (AgHb-191: 5020), and it may have been derived from a similar ulna awl.

A second complete awl was also recovered from the site (AgHb-191: 5012). Derived from a bird radius, the awl has a sharply pointed tip which is highly polished, and it exhibits dark staining (Plate 4.26:b).

Other bone awls include one specimen made from a cortical splinter of large mammal bone (AgHb-191: 5002). It is highly polished at working end and exhibits some polish at the proximal end. A needle-like awl (AgHb-191: 5003) was made from a splinter of bird long bone. It has a sharply pointed and polished tip, suggesting that it may have been used for tattooing. A small, finely pointed awl (AgHb-191: 5004) was made from a small splinter of bone, and it also has a highly polished on tip. These awls are illustrated in Plate 4.26: c-e.

A total of seven rodent incisor tools were recovered from the site, including five from beaver and two from small rodents, possibly squirrel. Details are presented in Table 4.22.

Rodent incisors were commonly used as wood-working tools, primarily for carving. The incisor was likely hafted in a handle (possibly similar to the antler handle recovered from the site and discussed below [AgHb-191: 5026]). Three of the beaver incisors (5014, 5017, 5018) were serrated at the working end and may have been used for a specific task (Plates 4.26:h-i and 4.27)

Table 4.22 Modified Bone: Rodent Incisors

Cat #	Provenience	Comments
5013	Feature 8 (NE Quad, Level 2)	-beaver incisor -beveled working facet
5014	Feature 68	-rodent incisor serrated working facet
5015	Feature 8 (SW Quad)	-beaver incisor -beveled working facet
5017	480-215 (Post #30))	-beaver incisor; Plate 4.27:b -end of tooth finely serrated
5018	Feature 8 (SE Quad)	-beaver incisor; Plate 4.27:a -end of tooth finely serrated
5023	Feature 8 (NW Quad, Level 2)	-rodent incisor -small, possibly modified
5024	Feature 8 (NE Quad, Level 2)	-beaver incisor -possibly modified

Seven similar and unusual modified bone objects were recovered from the site. These are generally similar in form to bone awls, except that one or both working ends are blunted rather than pointed. It is suggested that these tools functioned as pottery markers. Details are presented in Table 4.23, and several are illustrated in Plate 4.26.

Four of the specimens derive from features, while three (AgHb-191: 5007, 5008, 5010) come from block excavations associated with a single feature complex (Feature 82a and 82b). Experiments show that they produce a small linear or triangular punctate when impressed in plasticine (depending on the angle of application) or a clean, narrow line when incised.

Table 4.23 Modified Bone: Pottery Markers

Cat#	Provenience	Measurements (mm)			
		Length	Width	Thickness	Comments
5005	Feature 1	38	6	5	Plate 4.26:gone end is bi-beveled, other end is tapered
5006	Feature 51	44	5	2	Plate 4.26:f uni-beveled end with highly polished surface
5007	495-224	22	8	2	-rounded end
5008	494-224	34	8	3	–flat, tapered end
5009	Feature 8 (Level 2)	22	10	5	-flat, tapered end
5010	495-223	19	8	3	-flat, tapered end which is burnt and highly polished
5011	Feature 69	28	8	6	-tip portion with blunted end

The last class of modified bone includes four items that exhibit modification but are otherwise too fragmentary to reveal a specific function (Table 4.24).

The first is a distal phalanx of a white-tailed deer (AgHb-191: 5019) which was recovered from Feature 69. The specimen had been drilled and partially ground along the

Table 4.24 Modified Bone: Miscellaneous Objects

Cat #	Provenience	Comments
5019	Feature 69	-distal phalanx, white-tailed deer -possible projectile point
5021	Feature 1	-polished dog mandible fragment
5022	Feature 69	–ulna fragment, white-tailed deer –possible awl
5025	490-220 (Post #20)	-incised long bone fragment

exterior margins, and it measures 33 mm long, 21 mm wide, and 13 mm thick. Although the function is not known, it could have been used as a projectile point tip (Plate 4.26:j).

The ventral portion of a dog mandible fragment (AgHb-191: 5021) shows high polish and small transverse cut marks. Its function is also unknown.

Another specimen is the proximal fragment of a white-tailed deer ulna (AgHb-191: 5022) which appears to be modified. Although missing the distal (and probably pointed) end, it likely functioned as an awl, similar to AgHb-191: 5001 (Plate 4.26:a). A visible epiphyseal line suggests that it was derived from a young individual.

The last two modified bone objects include a polished piece of long bone with incised grooves along the bone's axis (AgHb-191: 5025), and a complete mammal canine which had been grooved at the base of the root so that it could be attached to a pendent or necklace (AgHb-191: 5027).

Only two artifacts made from antler were recovered from the excavations. The first is an unusual carved item (AgHb-191: 5016) that was recovered from Feature 8 (NW Quad, Level 2). Made from antler, the specimen measures 48 mm long, 16 mm wide, and 4 mm thick. Both ends are missing, but one exhibits the remnants of what might be considered two tines or teeth, similar to a hair comb or ornament. It has surface decoration consisting of incised lines parallel to the objects lateral margins and four incised chevrons at one end. It also has faintly etched opposing chevrons at the opposite end (Plate 4.28).

This object may also have been reworked for use as a pottery marker. One lateral margin is serrated producing a dentate stamp motif. A rounded tip at one end and a tapered tip at the other may have also been used for decorating ceramics. When this serrated margin was impressed in plasticine, it produced a classic dentate stamp, which, unfortunately, is a very rare ceramic decoration on the site. However, when the tool was dragged across the clay medium, a series of parallel incised or "combed" lines was produced, and this technique was used frequently as a surface treatment for the vessels.

The second antler artifact is a modified tine fragment (AgHb-191: 5026) that was recovered from Feature 69, Level 2. It is ground and tapered towards the distal end, which is unfortunately missing, and measures 96.0 mm long, 18.9 mm wide, and 19.0 mm thick. The fragment appears to be drilled or perforated at the end to accommodate some sort of tool, possibly a chert drill, perforator or beaver incisor. It most likely functioned as a handle.

A single marginella shell was recovered from the plough zone of Unit 495-224 (which is part of the block excavation associated with Features 82a and 82b). The specimen was ground or perforated on the side opposite the whorl, probably for use as a bead, and it measures 11.2 mm long, 7.2 mm wide, and 5.3 mm thick. Marginella is a salt-water

species from the Gulf of Mexico, and its shell is characteristically used for ornamental purposes.

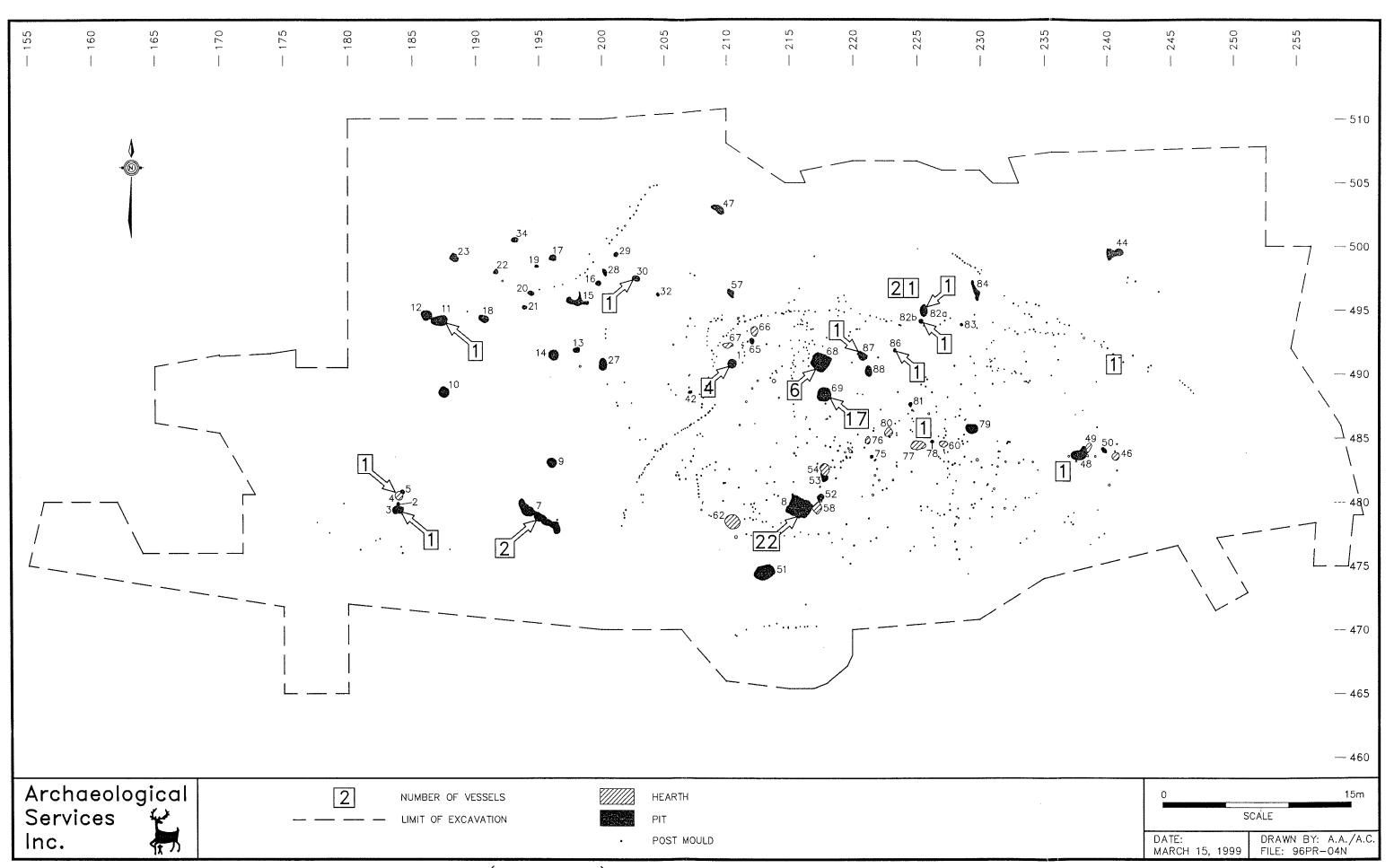


Figure 4.1

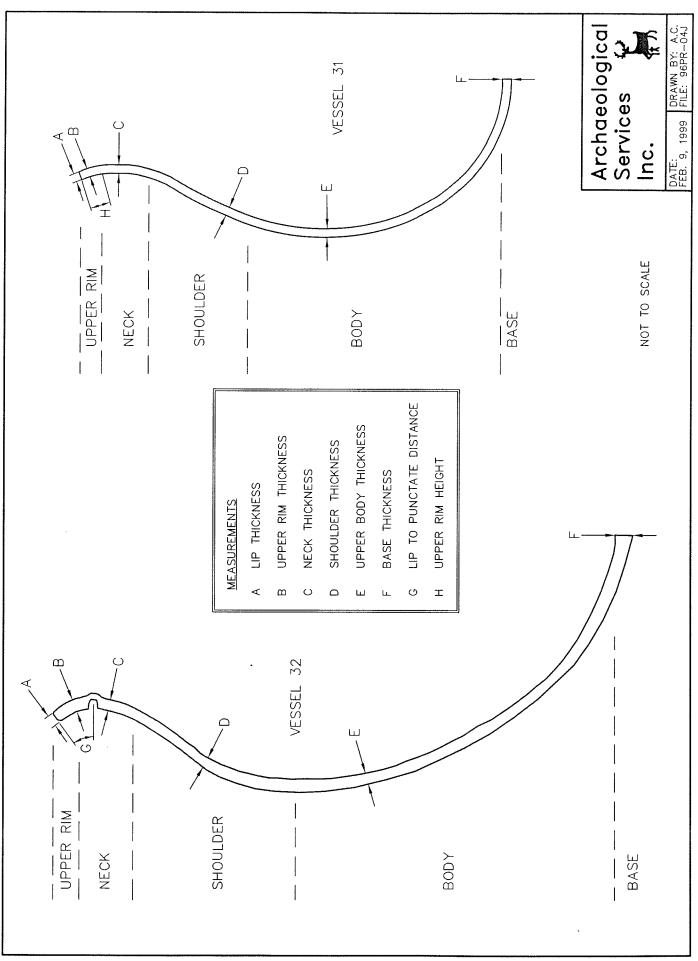
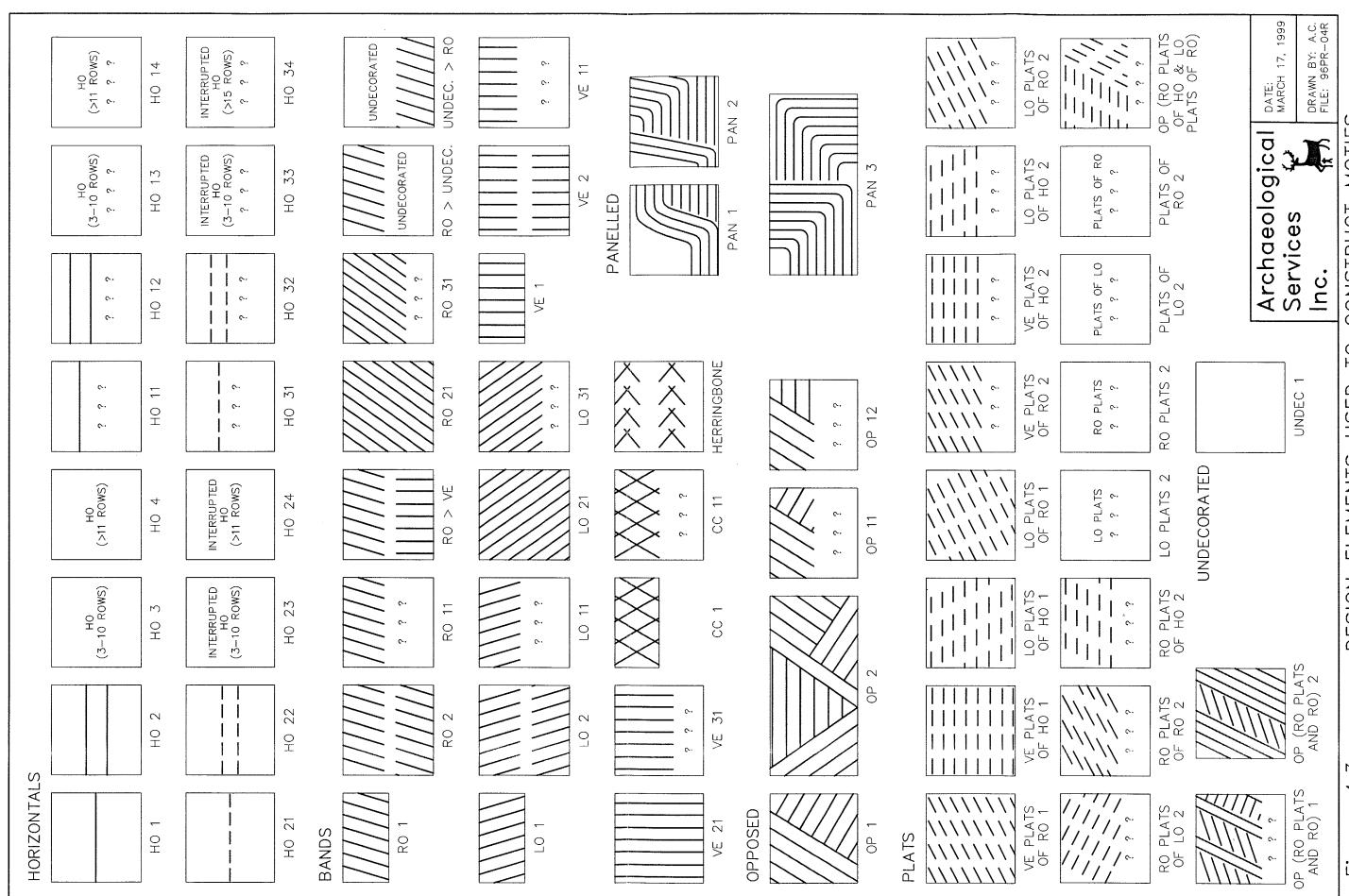


Figure 4.2 HC

HOLMEDALE SITE: VESSEL FORM AND LOCATION OF MEASUREMENTS



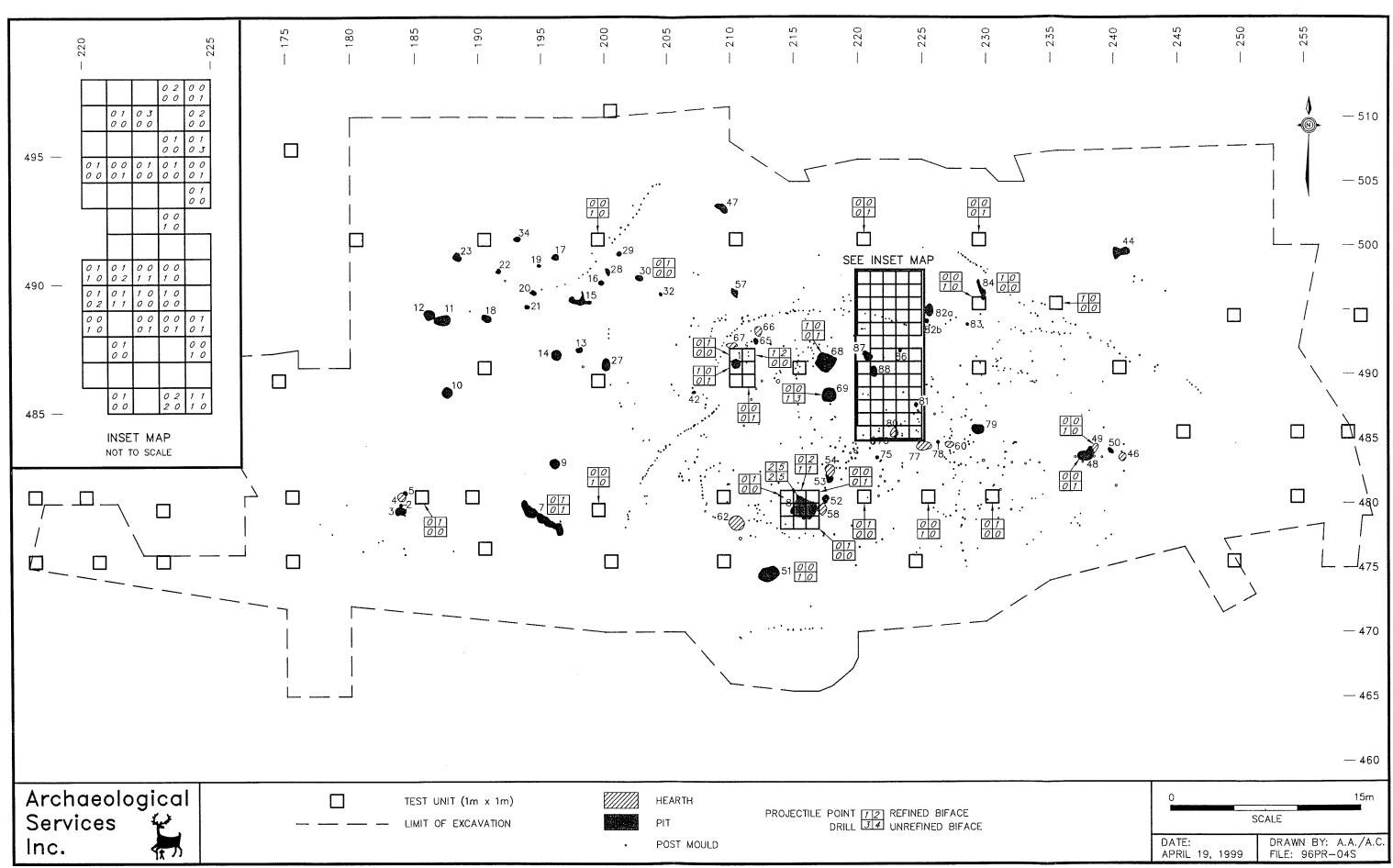


Figure 4.4a HOLMEDALE SITE (AgHb-191): DISTRIBUTION OF CHIPPED LITHICS - FORMAL TOOLS

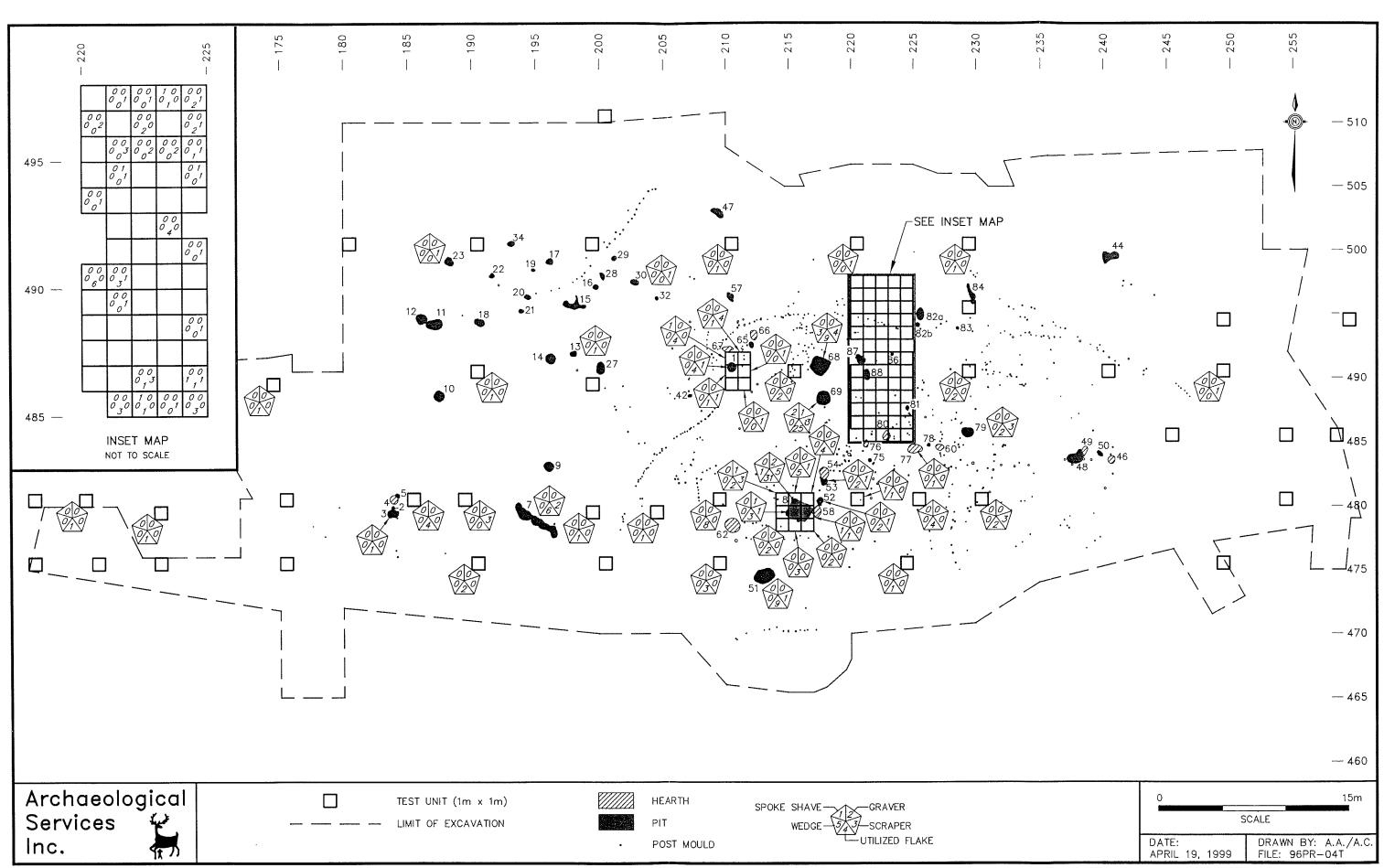


Figure 4.4b

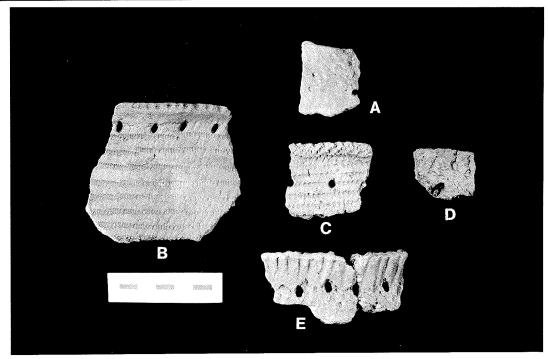


Plate 4.1 Holmedale Site: Vessels 7, 30, 33, 40 and 1

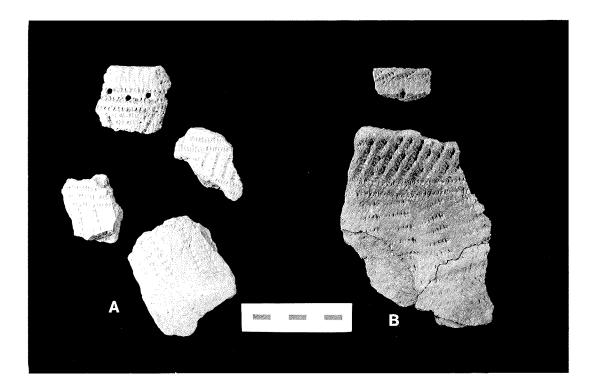


Plate 4.2 Holmedale Site: Vessels 35 and 58

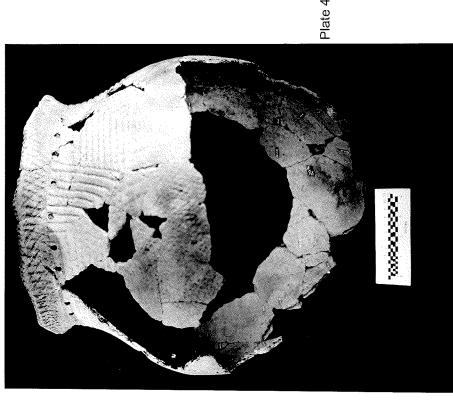


Plate 4.4 Holmedale Site: Vessel 31

Plate 4.3 Holmedale Site: Vessel 32

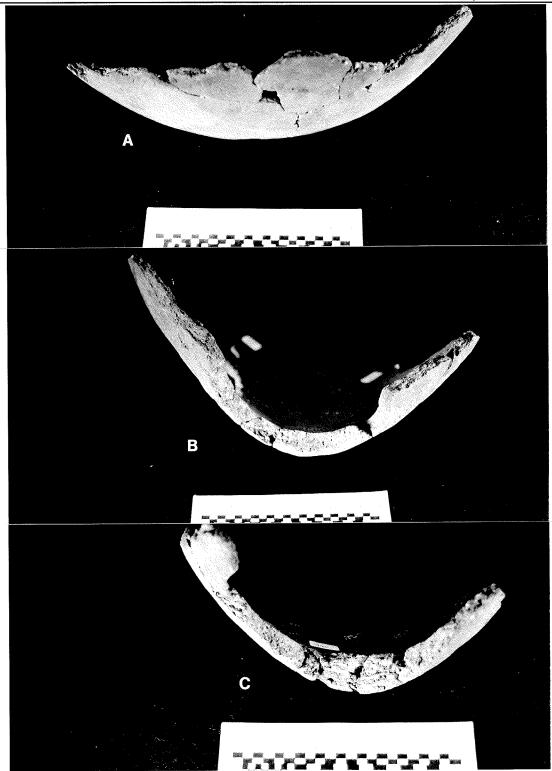


Plate 4.5 Holmedale Site: Reconstructed Vessel Bases

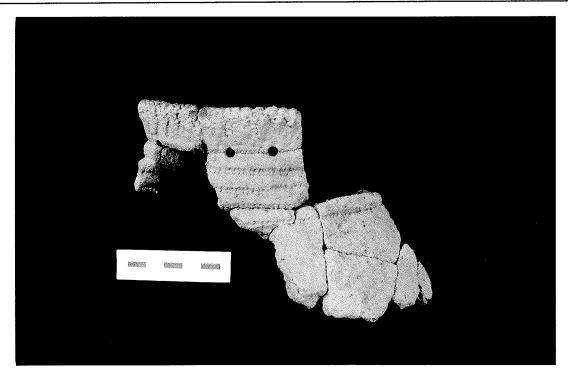


Plate 4.6 Holmedale Site: Vessel 12

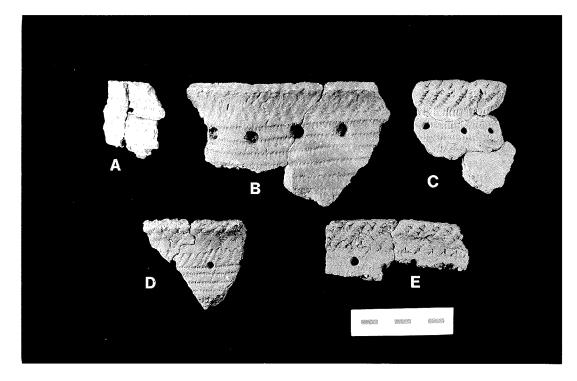


Plate 4.7 Holmedale Site: Vessels 2, 18, 47, 29, 34



Plate 4.8 Holmedale Site: Vessel 14

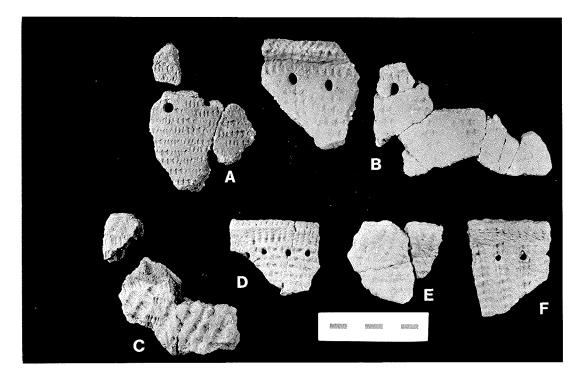


Plate 4.9 Holmedale Site: Vessels 57, 10, 24, 6, 9, 62

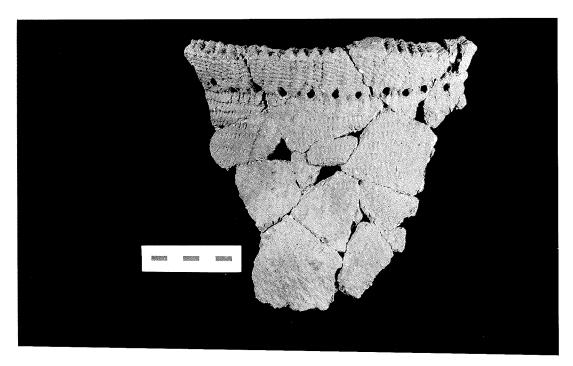


Plate 4.10 Holmedale Site: Vessel 7

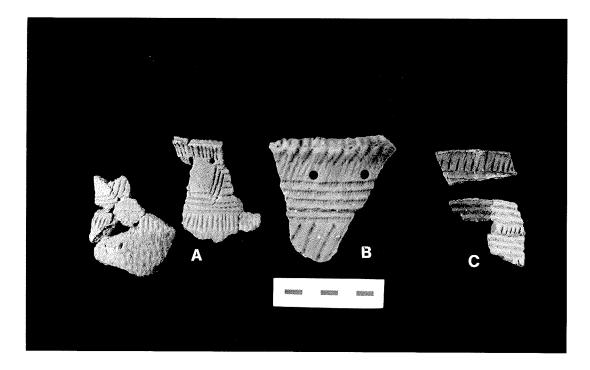


Plate 4.11 Holmedale Site: Vessel 3 and Vessels 13 and 49

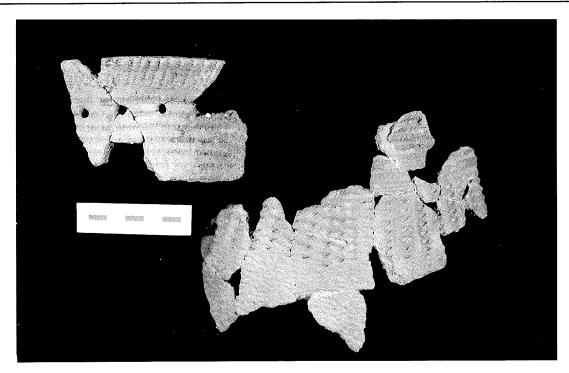


Plate 4.12 Holmedale Site: Vessel 8

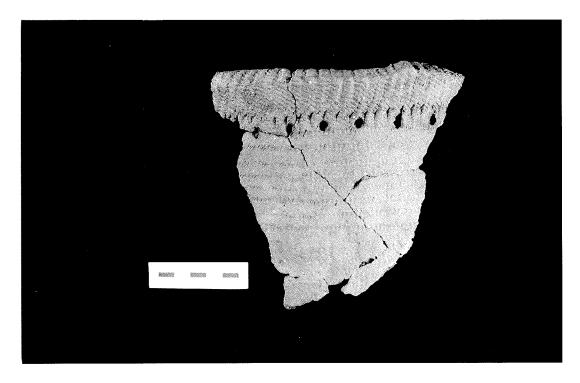


Plate 4.13 Holmedale Site: Vessel 16

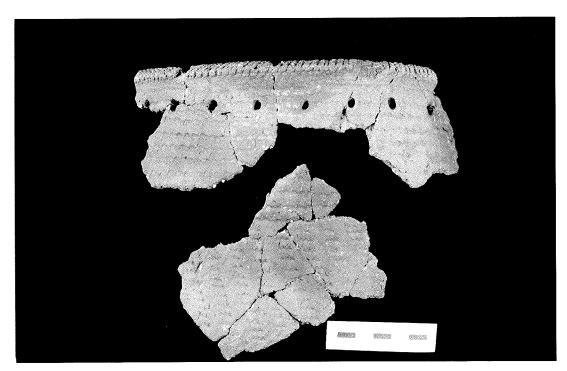


Plate 4.14 Holmedale Site: Vessel 15

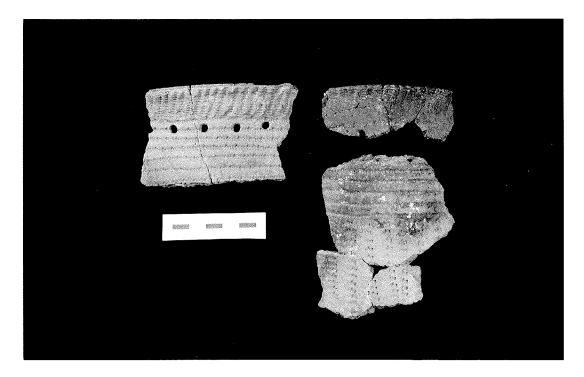


Plate 4.15 Holmedale Site: Vessel 55

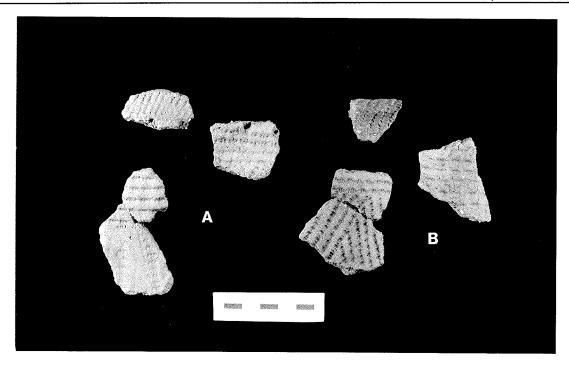


Plate 4.16 Holmedale Site: Vessels 59 and 60

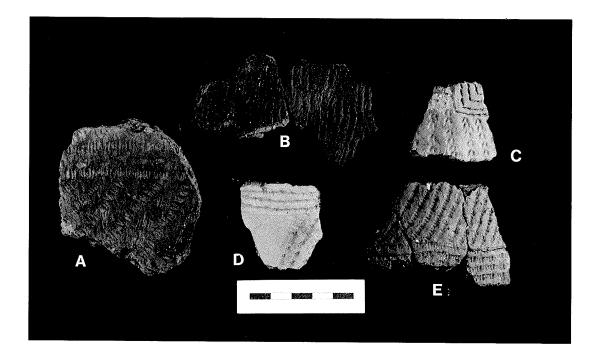


Plate 4.17 Holmedale Site: Decorated Neck-Shoulder Sherds

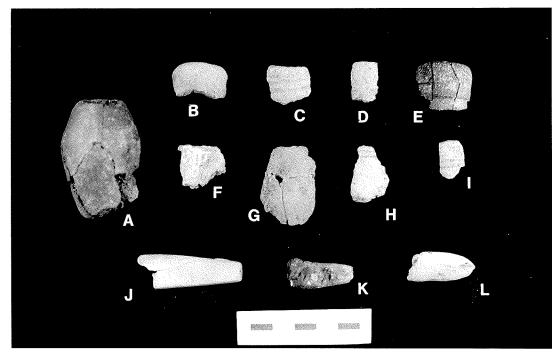


Plate 4.18 Holmedale Site: Pipe Bowls and Stems

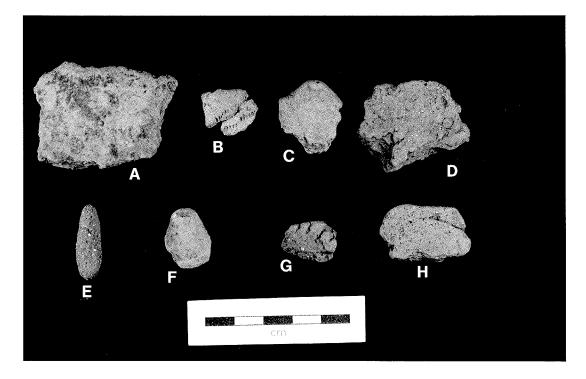


Plate 4.19 Holmedale Site: Juvenile Ceramics and Miscellaneous Ceramic Objects

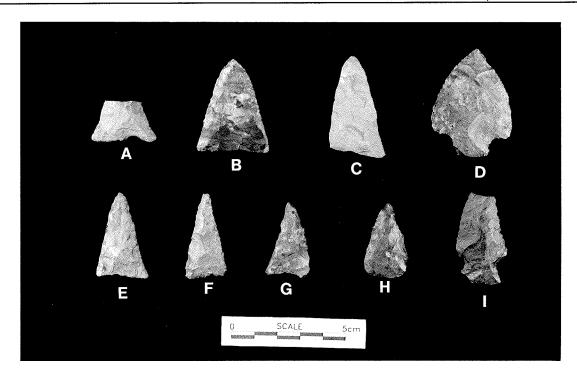


Plate 4.20 Holmedale Site: Projectile Points

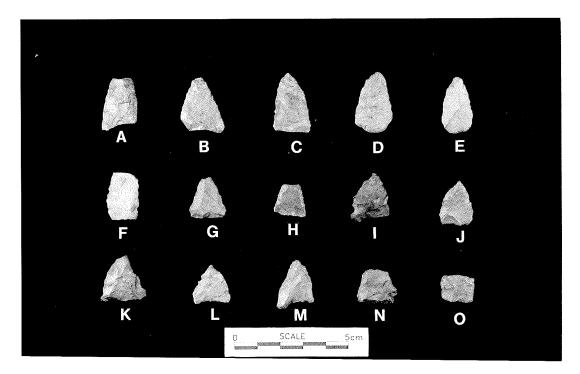


Plate 4.21 Holmedale Site: Projectile Points

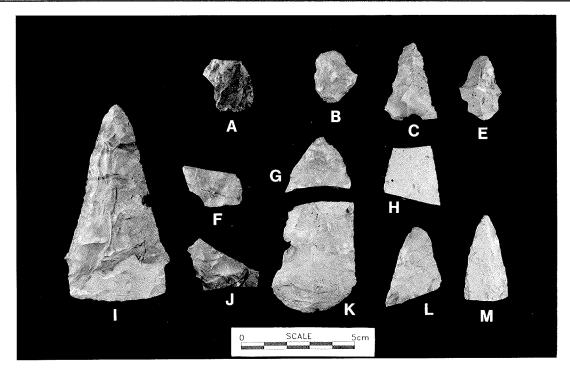


Plate 4.22 Holmedale Site: Flaked Lithics – Miscellaneous Bifaces

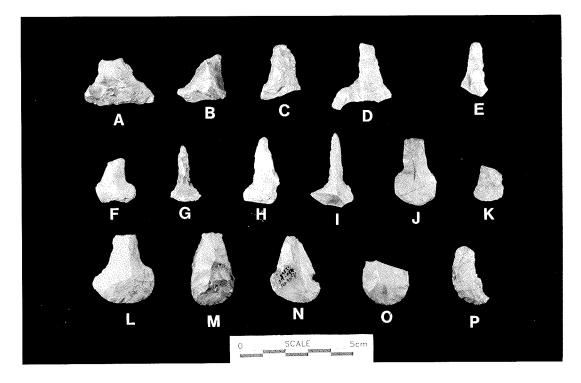


Plate 4.23 Holmedale Site: Chipped Lithics -- Drills and Hafted Scrapers

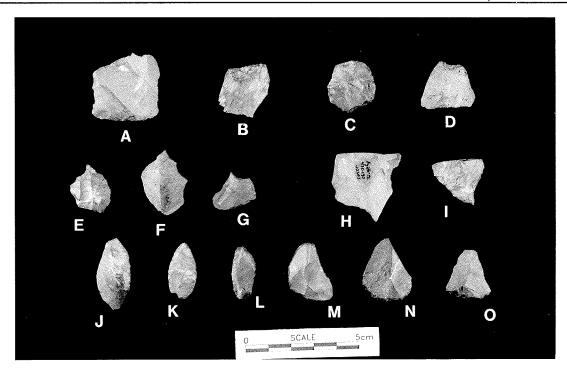


Plate 4.24 Holmedale Site: Flaked Lithics--Wedges, Gravers, Spokeshaves and Random Scrapers



Plate 4.25 Holmedale Site: Netsinkers

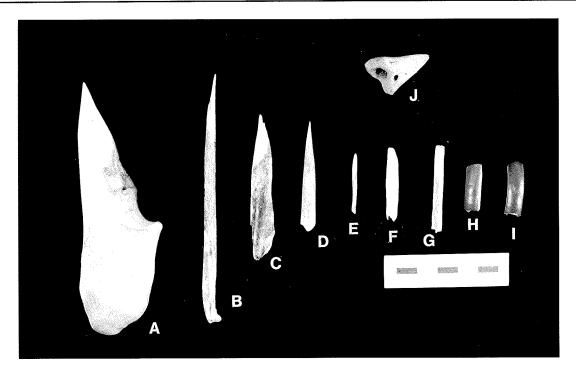


Plate 4.26 Holmedale Site: Worked Bone

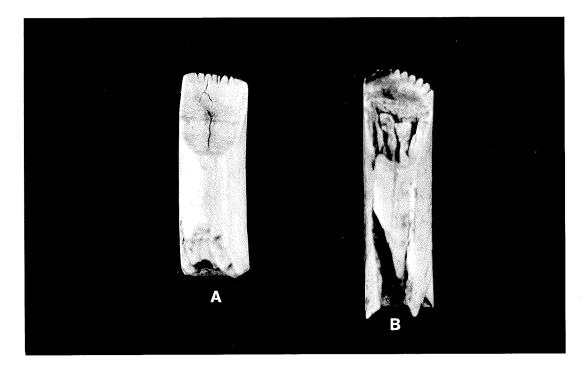
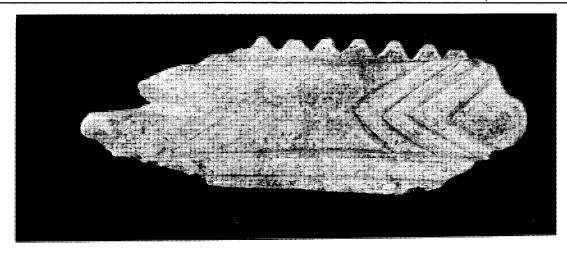


Plate 4.27 Holmedale Site: Serrated Beaver Incisors





cm

Plate 4.28 Holmedale Site: Decorated Hair Ornament (and Possible Pottery Marker)

CHAPTER 5: PLANT REMAINS

by Stephen G. Monckton

Analysis of plant remains recovered from the Holmedale site reveal a considerable variety of plant species, both cultivated and wild. The following report consists of a review of methodology and findings, but also attempts to interpret these in context of other data in southern Ontario.

5.1 Methods

During the salvage excavation of the Holmedale site, attempts were made to recover soil samples from as many archaeological contexts as time would permit. A total of 172 litres of soil were floated. The bucket method of flotation provided an efficient method of extracting plant remains, which not only depends on the buoyancy of objects, but their suspension during vigorous stirring of the sample in water. This suspension is poured through a 300 micrometer screen which collects the majority of identifiable charred plant remains. Light fractions are allowed to dry for a period of about 48 hours and a series of standard geological screens further separate the light fraction into particle size categories which facilitate sorting under a stereoscope. A more detailed account of methods used here appears in Monckton (1992). Wood charcoal fragments were broken in half in order to provide a fresh transverse sections of wood structure. An average of 25 fragments per sample were examined under a stereoscope.

5.2 Results

During this study, 885 charred seeds and seed fragments were recovered from 35 flotation samples representing 21 archaeological features. Analysis reveals that the only cultivated plant taxa were maize (*Zea mays*) and tobacco (*Nicotiana rustica*). Noncultigens, including a wide variety of fleshy fruits and greens compose the majority of plant taxa. About 21% of the seeds were contributed by cultigens. In contrast, fleshy fruits contributed about 16% of the seed population. These include black nightshade (*Solanum nigrum/americanum*), strawberry (*Fragaria* sp.), bramble (*Rubus* sp.), cherry (*Prunus* sp.), hawthorn (*Crataegus* sp.) and grape (*Vitis* sp.). Greens/grains and other taxa include chenopod (*Chenopodium* sp.), cleavers (*Galium* sp.), spikenard (*Aralia* sp.), pepper-grass (*Lepidium* cf. *L. densiflorum/virginicum*), sumac (*Rhus typhina*), cat-tail (*Typha latifolia*), small grass

(*Gramineae*), and several yet unidentified species (Appendices 7.1-7.3). Note that the number of maize kernels in Appendix 7.1 is based on weight contributions by very fragmented remains. Fragment number and weight are provided in Appendix 7.1. One hundred intact charred maize kernels (based on specimens from the Auger site, Simcoe County) weigh approximately 10 grams (Monckton 1992). The total number of objects stated above is therefore reduced to 404 seeds. Wood charcoal fragments reveal a familiar range of tree genera (Appendix 7.3). This includes maple (*Acer* sp.), beech (*Fagus* sp.), birch (*Betula* sp.), ash (*Fraxinus* sp.), elm (*Ulmus* sp.), red and white oak (*Quercus rubra* and *Q. alba* respectively), and ironwood (*Ostrya virginiana*). Elm and oak are dominant in almost all samples analyzed, while ash and ironwood are common contributors.

5.3 Discussion

Plant remains from the Holmedale site have much in common with archaeobotanical assemblages elsewhere in southern Ontario. Here, as on later Iroquoian period sites, Eastern Eight Row, or Eastern Complex maize was cultivated. This is evidenced by several intact maize kernels. While individual cupules and cupule fragments are ubiquitous at Holmedale, no complete transverse sections are available from cob fragments to permit an assessment of row number. The largest collection of cobs comes from the Seed site located in the southern prehistoric area of Huron occupation in south central Ontario. Approximately 80% of cobs are eight row (Crawford 1985). Cobs bearing four, six, ten, and twelve rows of kernels form the remainder. Virtually identical proportions were found in material from five assemblages dating to the early 17th century in Huronia (Monckton 1992).

Bean (*Phaseolus vulgaris*) was not recovered from Holmedale, but poor representation of this taxon is typical of even later Iroquoian sites investigated in Ontario (e.g., Crawford 1985; Fecteau 1978; King and Crawford 1979; Monckton 1992). The only exception to this is the Auger site (Latta 1985), which appears to have burned, preserving large numbers of beans there (Monckton 1992). Similarly, no cucurbit (*Cucurbita pepo*) remains were recovered from Holmedale which is also typical of later Iroquoian sites.

In general, both bean and cucurbit are probably under-represented or apparently absent in most sites due to food preparation methods which inhibit preservation in the archaeological record (Gasser 1982). It should be noted, however, that cucurbit phytoliths were identified at the HH site at the western end of Lake Ontario (Buerhle cited in Woodley

1996:124). The HH site was primarily occupied during the late Middle Woodland, although a possible Princess Point component may also be present. However, the fact that no later components were identified, together with the radiocarbon dates obtained for the two features from which the cucurbit phytoliths were recovered (1410±60 B.P. and 1550±60 B.P. respectively), suggests that general assumptions concerning the relatively late arrival of this taxon to southern Ontario and its relative importance prior to the 13th century (e.g., Smith and Crawford 1997:26) are in need of some reassessment in light of these taphonomic factors.

No sunflower (*Helianthus annuus*) was recovered from this settlement which probably reflects the actual absence of this cultigen. Sunflower is well represented on most later lroquoian sites and is often second only to maize in ubiquity. Substantial sunflower populations have been reported by Crawford (1985) and Monckton (1992). Current data indicate that a relatively small seeded form of sunflower was cultivated in Ontario, much smaller than material from Mississippian assemblages (Yarnell 1978).

Tobacco (*Nicotiana rustica*) is the only other cultigen besides maize at Holmedale. A total of eight seeds was recovered. The frequency is probably much higher given that several more "*Nicotiana*-like" objects were relegated to the unidentifiable seed category. Quantification of this taxon, however, is perhaps unreliable given the production of up to a million seeds per plant (Goodspeed 1954). In Iroquoian assemblages, frequencies of tobacco range from zero to several hundred seeds and are often unevenly distributed among features. It is, therefore, difficult to evaluate the degree to which Holmedale inhabitants produced tobacco in comparison with later assemblages.

5.4 Wild Plant Use

Plant remains from Holmedale indicate the extensive collection of wild plant foods, specifically nuts and fleshy fruits. Probably the most important collected plant food was walnut whose shell fragments constitute almost half of the food related items larger than 2.00 mm in size. Oak and hickory nuts are represented only in trace quantities. There is little doubt that these walnut remains represent food remains rather than fortuitous charring in firewood because there is no walnut wood charcoal present. Such food would have been collected in the autumn.

Bramble is the most commonly represented fleshy fruit taxon in most Late Woodland archaeological contexts and this site is no exception. This strong representation of fruit at

Holmedale anticipates larger contributions from these taxa in assemblages of later protohistoric Iroquoian sites (see Monckton 1992). The Jesuits were impressed with the quantities fleshy fruits available to protohistoric groups such as the Huron (Thwaites 1896-1901; 10: 103). Recent dietary analysis of Huron plant food indicates that fruit would have contributed about a quarter of the daily calories needed by the average person (Monckton 1992). More distant Fort Ancient assemblages exhibit considerably more nut remains (Wagner 1987; MacAuly 1990). Data presented here show that dependence on fleshy fruits was probably less important than nuts at Holmedale which is located on the northern edge of the Carolinian forest region.

Several other taxa also represented at Holmedale could have served as greens or grains. Chenopod (*Chenopodium* sp.) seed is in this category and is represented by a single specimen. It is difficult to evaluate the contribution of chenopod to the diet of the Holmedale site inhabitants, if it was indeed consumed for food. Leaves were probably used for greens, and therefore difficult to quantify on the basis of seeds alone. Pepper-grass (*Lepidium densiflorum*, *L. virginicum*) has been documented for Iroquoian settlements, but this is the earliest occurrence in Ontario. This member of the Cruciferae could have been used as a green or condiment as the common name implies (Erichsen-Brown 1979: 461; Monckton 1992: 48). *Lepidium virginicum* is distinguished from *L. densiflorum* by a narrow wing. However, these frequently fail to survive in archaeological specimens, rendering the species indistinguishable. The one specimen which lacks this structure therefore remains identified only to one of these two species. Several other adventive weeds common in Iroquoian sites, but not represented at Holmedale, are knotweed (*Polygonum* sp.), purslane (*Portulaca oleracea*) and several species of small grass (Gramineae).

Other taxa from Holmedale include spikenard (*Aralia nudicaulis*), sumac (*Rhus typhina*), cleavers (*Galium* sp.), and cat-tail (*Typha latifolia*). All these are quite common in Iroquoian sites. Spikenard, a member of the Araliaceae, was frequently used as medicine in the Great Lakes region (Wrong 1939: 195). Cat-tail seeds occur in several locations at Holmedale, and could represent the presence of rush mats similar to those referred to in ethnohistoric records of the 17th century Huron (Thwaites; 42: 205; 58: 209; 59: 129, 133, 155). It should be noted, however, that cat-tail seeds are the smallest of identified taxa and can pass through the collection screen and their recovery is probably not systematic. Interpretations of the quantities of cat-tail should, therefore, be made with caution.

The Holmedale sample strongly supports a late summer to fall occupation. There is a single strawberry seed located in Feature 8 which is suggestive of early summer (June).

While strawberry could have been dried and consumed in late summer, one might expect more evidence of it in the deposits. The majority of time appears to have been spent later in the summer, perhaps as a harvest station with faint evidence of early summer planting.

5.5 Wood Charcoal

Remains of firewood and construction material provides information on the local environment and potentially cultural preferences in wood use. Appendix 7.3 provides the wood charcoal fragment numbers and a percent summary. Wood charcoal remains were found to be dominated by maple (*Acer* sp.), elm (*Ulmus americana*), and red oak (*Quercus rubra*). Other prominent contributors are ash (*Fraxinus* sp.) and ironwood (*Ostrya virginiana*). It should be noted that while maple is represented by the greatest number of fragments identified, almost half of them come from a single context (Feature 3). Elm and oak, however, are more ubiquitous in the assemblage.

5.6 Conclusions

The inhabitants of Holmedale cultivated maize and tobacco. It is possible they also cultivated cucurbit since carbonized remains of this taxon are rarely found even on protohistoric Iroquoian sites, where historical documents suggest extensive use of that cultigen. The same could be said for bean although there is no archaeological evidence for it prior to about A.D. 1000 in the Northeast. Plant remains also indicate that the settlement benefitted from a rich source of nuts and locally available forest edge plant species such as bramble, strawberry, and adventive weeds such as chenopod.

The prominence of collected plant foods in the majority of archaeological deposits is evidence of a significant contribution of non-cultivated plants to the peoples diet. The ubiquity and quantity of maize remains at Holmedale, however, suggests a degree of reliance on this cultigen well within the range of variability found on protohistoric Iroquoian settlements. It is, therefore, likely that maize cultivation was already well established by the time that Holmedale was occupied (*cf.* Crawford *et al.* 1997). In fact, the only major botanical difference between this assemblage and later Iroquoian settlements appears to be a heavy reliance on nuts which is a trait that is consistent with Holmedale's geographical position.

CHAPTER 6: FAUNAL REMAINS INVENTORY

by Stephen Cox Thomas

6.1 Introduction

A preliminary examination of the faunal collections from the Holmedale site was conducted in order to gain some general data concerning the subsistence resources exploited by the occupants of the site, to provide a basic description of the collection and to gain some insight into its potential for further zooarchaeological research. Given the preliminary character of a faunal inventory, the use of a comparative reference collection was not required. Specimens from each provenience unit were identified to zoological class and some tentative identifications were made to generic or species level. Developmental traits that might help to establish the season of deposition were noted. Observations were made of factors which could identify intrusive Euro-Canadian material, including tentative identifications of European domesticated species and metallic tool butchering marks.

The taxonomic data presented below is entirely provisional; while much is probably accurate, species recognition should be verified through formal analysis. Similarly, conclusions based on this inventory must be regarded as hypotheses to be tested through future analyses. Besides providing positive identifications, a zooarchaeological analysis will inevitably note more taxa, describe body area representation with far greater accuracy and detail, and identify more industrially altered and butcher-marked elements.

All the specimen counts presented in the inventory (Appendix 7) are approximate in the sense that joining broken specimens during zooarchaeological analysis will decrease the total.

6.1.1 Procedure

The collection was divided into washed and unwashed sections. Material in the washed section was lightly cleaned in accordance with good curation practice. However, fine silt matrix still tenaciously clung to some items, particularly to the fine sculpturing on fish vertebrae, and seriously hampered evaluation in many units. During any formal future analysis, it will be important to quantify salmonid and non-salmonid vertebrae, and to determine species of salmonid vertebrae.

For the purposes of this inventory, fish vertebrae and scales were not counted among potentially identifiable bones, although they are, technically, identifiable. The presence of salmonid fish and the American eel vertebrae was noted, but no attempt was made to recognize the vertebrae of other fish species. The presence of scales within samples has been noted only if reasonably intact specimens were observed.

Some items in the unwashed section could not be evaluated without cleaning. Except for items of obvious significance, specimen cleaning was outside the scope of this inventory.

As previously noted, all counts provided in the inventory are approximate. In the Description column of Appendix 7, recognized taxa are listed in approximate order of abundance, from most to least numerous.

In this collection, use of "Number of Specimen" statistics can convey a misleading impression of the information potential of many of the units. Some samples contain large quantities of unidentifiable mammal bone fragments, sometimes calcined, and perhaps crumbled fish bone and non-diagnostic serial elements, such as ribs, spines, rays, etc. As the inventorying work progressed, it became apparent that estimated quantities of potentially identifiable specimens were likely to provide a more reliable indication of information potential among the individual samples.

Feature 52 (both screened and floated) is an example of a sample with a particularly low identification rate. Of 257 inventoried items, only three were counted as "potential identifications." Significantly, over 30% could not even be identified to zoological class. At the other extreme is Feature 82a (n = 117) with a potential identification rate of close to 30%. In general, the identification rate for the overall assemblage will probably be found to be closer to 10%.

6.2 Findings

6.2.1 General Observations

The Holmedale collection consisted of 3,019 specimens from 52 samples taken from 22 pit features; 185 specimens from seven post mould samples; 703 specimens from 52 samples derived from 48 one-metre square plough zone excavation units; and 14 specimens from unknown provenience. The distribution of specimens among these various provenience types is presented in Table 6.1.

Plough zone proveniences tend to have yielded fewer specimens than do features, although some squares produced sample sizes comparable to major features. With two notable exceptions, posts te8nd to contain very few specimens.

A detailed description of provenience units is presented in Appendix A5. The total of approximately 3,921 specimens breaks down as 2,395 mammal specimens, 878 fish specimens, 156 bird specimens, 57 mollusc specimens, 10 reptile specimens, and 390 specimens of unknown class.

Table 6.1: Distribution of Faunal Specimens Among Types of Provenience Unit

Specimen Count	Post		Feature		Ploughzone	
	n	%	n	%	n	%
0-5	5	71	7	35	26	57
6-20	1	14	4	20	12	26
21-80	0	0	2	10	5	11
81-320	1	14	4	20	3	7
321-1,280	0	0	3	15	0	0
Totals	7	99	20	100	46	101

NB: This table excludes two squares and one feature which were found to contain no faunal material, just bone-like floral items or fossiliferous or biomorphic stones. Also excluded is one sample of unknown provenience.

The sample also includes 27 worked or modified bone items (see Chapter 4.4).

6.2.2 Taxonomic Abundance & Ubiquity

Among units with substantial specimen counts, mammals were found to predominate in 26, and fish in just six. Of the latter, five are flotation samples from Features 1, 8, and 69. The only non-flotation sample in which fish predominate is Feature 1. The identification rate is low in most of these samples.

The order in which mammal species are distributed among the faunal samples, proceeding from most to least ubiquitous, is: Virginia White-tailed Deer, American Beaver, Muskrat, Raccoon, Grey Squirrel, *Canis* (Dog or Wolf), Eastern Chipmunk and Black Bear

Deer was by far the most frequently recognized mammal species, occurring in 35 samples from 19 metre squares and nine features. The relatively large showing in the plough zone level of the one metre squares may be partially due to the differential destruction of less robust bones of fish and small mammals.

Beaver remains were noted in 17 samples from three plough zone units, three features, and two posts. The relative abundance of beaver may be partly due to the prominence of

beaver incisor tools in the worked bone assemblage; finished tools are likely to be carefully curated, which may tend to over-represent a species.

The low frequency of beaver remains in the plough zone units contrasts with deer, and probably reflects a real difference in where the bone of the two species was deposited on the site. The dense, robust bones of this aquatically-adapted mammal should resist mechanical destruction as well as those of deer.

Remains of muskrat, as well as grey squirrel and raccoon are moderately well represented. Thus, the patterns exhibited by the inventory suggest that the two most heavily exploited mammal species besides deer (beaver and muskrat) were aquatic in habitat preference.

Canis sp. (dog or wolf), eastern chipmunk, and black bear are among the less well represented mammal species. Canis remains are found in two plough zone units and three features, and are most numerous in Feature 1. In terms of their relative size, the individuals represented in the sample appear, on first impression, to be at the large end of the native dog size range, or at the very small end of that for Ontario timber wolves.

Pending analysis, little may be said concerning taxonomic ubiquity among the bird assemblage. The large number of resident and migratory avian species together with limitations imposed by preservation makes even tentative species recognition difficult. It is possible that grouse and passenger pigeon may be among the more numerous taxa. The position of ducks and wading birds (herons, cranes, egrets) cannot be evaluated. The presence of two unusual taxa — an eagle and, possibly, a swan — were noted.

Very few turtle bones were noted in the collection. Snapping turtle was recognized, as well as a species morphologically similar to the map and the painted turtle.

Amphibian bones are relatively uncommon. Most specimens fall within the Order Anura (frogs and toads). Recognized taxa include bullfrog, another smaller species of frog, and a toad in the American toad size range. A mudpuppy (*Necturis*) vertebra was noted in the "No Provenience" sample.

The order in which fish species are distributed among faunal *samples*, proceeding from most to least ubiquitous, is Sucker sp. (*Catostomus* sp.), Salmonids (Lake Trout, Lake Herring or Cisco, and Lake Whitefish), Yellow Perch, Small Sunfish (*Lepomis* sp. such as Pumpkinseed and Bluegill), Bullhead (*Ameiurus* sp. such as Black and Yellow Bullhead), American Eel.

Suckers, yellow perch, and smaller members of the sunfish family (pumpkinseed, bluegill, etc.) are the most ubiquitous of the fish species found locally in the Grand River and its

tributaries. Often remains of these taxa appear to represent individuals in the smaller end of their respective size ranges.

Considering the meandering riverine habitat in the site catchment area, channel catfish and more bullhead specimens would be expected. Given this habitat, together with the relative abundance of small sunfish, the absence of northern pike and possibly muskellunge is noteworthy. These trends imply a certain degree of selectiveness in either the habitats exploited or in the methods and equipment used, and suggest that the site catchment area did not seem to be exploited for maximum utilization of available riverine fish resources.

Among the most significant trends in the inventory is the relative abundance of salmonid species, including lake whitefish, lake herring or cisco, and lake trout. These taxa were tentatively recognized on the basis of vertebrae. All inhabit cool, deep lake waters except for certain times of the year, particularly during the autumn spawning season. These remains, thus appear to represent long distance transport of resources exploited at a remote location, presumably Lake Erie or Lake Ontario. Further analysis will be necessary to determine whether the remains were brought to the site in the form of preserved fillets or whole fish.

American eel was noted in several contexts within Feature 8, particularly within Level 2. The American eel breeds in salt water, and it is believed by fisheries experts that its range did not extend to Lakes Erie or Huron prior to the construction of the Welland Canal (Scott and Crossman 1979:625; William Ramshaw, Dept. of Biodiversity & Conservation Science, Royal Ontario Museum, personal communication January 1997). This strongly implies that the eel meat was imported to the site from the Lake Ontario drainage. As with the salmonids, further analysis is required to help determine whether preserved fillets or whole fish were imported.

Other fish taxa noted in the inventory were bass (large- or smallmouth), a redhorse sucker, at least two species of minnow, walleye, bowfin, lake sturgeon and possibly white bass. Minnows are important, not for their nutritional significance, but because many species are highly specific in habitat preference. Sturgeon is significant because it almost certainly reflects a spring procurement event.

Feature 69 (Level 3), Feature 82a, and Post 31 in square 480-215 contain clearly identifiable but unrecognized fish cranial bones. Further analysis of these features would provide insights concerning habitat exploitation, since American eel, burbot, or salmonid cranial bones may be present. Fish scales which may be sufficiently intact to analyze were noted in two screened and two flotation samples from Feature 1, and in two flotation samples from Feature 8.

The most ubiquitously distributed mollusc was a land snail such as the common garden snail (*Anguispira alternata*) or similar species. Land snails could well be naturally deposited. Indeed, the fragile shells are unlikely to withstand the taphonomic stresses which destroyed more durable elements of other taxa.

Freshwater mussel shell fragments were noted in many samples. These are more likely than the land snail shells to reflect human subsistence behaviour, but it is still conceivable that a portion of these shells were brought to the site by raccoons from a nearby tributary stream or slough. Only one possibly identifiable specimen was noted, recovered from the plough zone in unit 494-224.

6.2.3 Evidence of Euro-Canadian Disturbance

Evidence of European domesticated species was meager and confined entirely to the plough zone. A probable ox vertebra with a saw mark was noted in square 491-224; a probable pig mandible was found in 520-200; and, a possible domesticate bone fragment was noted in 480-199. Other plough zone units that contain fragments of large animal bone which may be derived from European domesticates include 495-224, 496-220, and 496-221, although some of these elements may prove to be derived from large indigenous mammals such as elk, moose, or bear.

6.3 Discussion

6.3.1 Noteworthy Provenience Units

The ten most productive units, from most to least productive, are Features 1, 8, 69, 52, and 51, Post 31 (beaver interment), Feature 68, metre squares 496-224, 495-224, Feature 82a. As discussed in Chapter 3 above, Features 1, 8, 68, and 69 all represent large refuse-filled storage pits. Appendix 7 provides more detailed information on feature and square contents.

6.3.2 Features

Feature 1 yielded the largest faunal sample. Among the mammal species noted were a large dog or wolf, bear, muskrat, and deer. Salmonid bone was apparently well represented, including lake whitefish, lake herring, and probably lake trout. Other fish include small sunfish, small bullheads, perch, at least two minnow species, and probably a bass species.

Feature 8, the most complex feature, yielded the second largest amount of faunal material. Six rodent incisor chisels were recovered, including one of the serrated form. Among the mammal species noted are deer, beaver, muskrat, grey squirrel, and raccoon. Fish species recognized include American eel, lake whitefish, sucker, bullhead, and small sunfish. Also noted were snapping turtle and possibly swan. A concentration of calcined mammal bone in Level 2 of the northwest quadrant suggests derivation from a hearth area.

Feature 69 yielded the third largest faunal sample, and produced an unusually wide variety of both fish and mammal species. This suggests association with a different pattern or range of subsistence activities than is reflected by other large features. Feature 69 was second only to Feature 8 in worked bone content. Layer 3 yielded two fragments of antler manufacturing debris as well as two pieces of what appear to be antler implements. It may be that this deposit was associated with antler processing.

Feature 52 produced the fourth biggest faunal sample, including a large quantity of burned bone fragments, almost all of which were calcined, and likely derived from the adjacent hearth area (Feature 58).

Feature 51 contained the fifth largest sample of faunal material. This feature may represent a deer bone processing event. Deer elements comprised over 90% of the contents, consisting primarily of fresh bone fractured pieces of major limb bones with a few fragments representing the head. There were very few vertebral fragments, and no ribs, phalanges or ankle bones. While the paucity of postcranial axial elements might reflect a long range hunting event, this explanation cannot account for the absence of phalanges and ankle elements. Presumably, they would have been processed separately in another location.

Feature 79 contained primarily calcined large mammal long bone fragments, suggesting that they were redeposited in the feature from a hearth area. All the identifiable mammal bones represent the toe and ankle region of deer. This might complement the activity represented in the material from Feature 51, or it might represent an extreme case of a long range hunting event.

Feature 82a is an example of a unit with a proportionately high number of potential identifications, possibly over 30% of the entire sample. Given the deer body part representation, this feature may reflect the processing of a whole deer carcass.

6.3.3 Posts

Post 31 in unit 480-215 appears to contain an interment of a major portion of a single beaver carcass. All body areas are represented. These remains would appear to represent a single food processing event. Besides the fact that it is unusual to find a whole carcass interment of a beaver in the Late Woodland period of southern Ontario, the Post 31 collection is significant. The remains of the right mandible, almost complete, show careful and systematic chipping of the ventral border for incisor removal, and beaver incisor chisels are the most common recognizable implement type at Holmedale. Also, because of the good preservation, and the presence of much of the skeleton, butcher marks are well defined, it is relatively easy to differentiate perimortem fractures from dry bone breaks, and it is possible to refit many of the broken bones. These points would enable reconstruction of much of the butchering process, which consisted not only cutting, but of systematically breaking various elements of the skeleton.

Post 31 contained 165 faunal items, making it the sixth largest faunal sample in the Holmedale collection. While small amounts of bone and other artifactual material might fall into a post hole prior to post placement, or might drift into the post mould as the post itself decays, it is not likely that such a volume of bone representing a single carcass should enter a post mould by random processes.

Post 30 of unit 480-215 contained two implements (an entire awl and the cutting end of a serrated beaver incisor cutting tool). The fact that it contained two items, and the fact that they are implements rather than manufacturing debris makes it unique. Moreover, the Holmedale collection includes few complete faunal implements, and the fact that a complete awl was derived from Post 30 makes this post mould even more unusual. It is possible that the beaver incisor tool was also complete, at least when originally deposited. The root end of the tool was removed by a recent fracture. It is unlikely that the excavators could miss a large orange-and-white section of beaver incisor while sectioning Post 30. It is more likely that the root end of the tool was broken by plough action.

Only four other features (1, 8, 51, and 69) contained more than one worked bone specimen. If Post 30 actually contained two entire implements, it would place it on a par with Features 8 and 69, two of the three most prolific Holmedale features.

6.3.4 Plough Zone Units

Faunal material from the one metre units excavated in area of 495-224 to 497-223 (just to the west and north of Feature 82a) are in excellent condition for a plough zone sample. This suggests that the plough had not turned the soil in this spot very many times. If so, the faunal material has not been removed far from its original point of deposition. Body portion representation in this area may complement that noted in Features 1 and 8.

6.3.5 Possible Hearth Loci

Some square samples with relatively large bone counts that consisted primarily of calcined mammal bone were noted. Logically, a concentration of calcined bone found in a metre square could either represent a hearth lens destroyed by ploughing, or a secondary deposit of material removed from a hearth. An example of the former possibility is the calcined bone found in square 485-222. It could well have been derived from hearth Feature 80. Other samples, however, are not associated with established hearth features. These include concentrations in squares 495-222 and 500-224. It is possible that one or both of these concentrations could represent a hearth so shallow that it did not penetrate below the present plough zone.

Similarly, a concentration of calcined mammal bone in level 2 in the northeast quadrant of Feature 8 may represent a hearth event, in all likelihood related to the adjacent Feature 58 hearth. Less obvious concentrations of calcined bone were noted in Feature 30 (which is not associated with any identified hearth and Feature 53 (associated with the Feature 54 hearth).

6.3.6 Seasonality

Most seasonal indicators suggest a warm weather occupation. Avian seasonal indicators were noted in:

- Feature 1/no level or quadrant (juvenile bird);
- Feature 1/fill (possible passenger pigeon and an unidentified juvenile bird);
- Feature 8/ level 2, NW quadrant (passenger pigeon-sized juvenile bird);
- Feature 69/level 3, no quadrant (possible juvenile passenger pigeon);
- Feature 82a (juvenile bird);
- Feature 82b/ no level or quadrant (an unidentifiable juvenile bird);
- Post 28 Unit 480-215 (juvenile bird);
- Unit 496-224/ plough zone (possible juvenile passenger pigeon).

Taxonomic identification would increase the value of these observations.

Early-fusing muskrat epiphyses in unfused condition can be used to indicate a warm weather occupation (Thomas 1988). Specimens thought to be muskrat elements with unfused early-fusing epiphyses were noted in:

- Feature 1/5, north part
- Feature 8/2, NW & NE guadrants
- Unit 494-224/plough zone washed & unwashed samples
- Unit 497-224/plough zone

Few other obvious seasonal indicators were noted. A sturgeon bone fragment was noted in Feature 82a. Generally, sturgeon procurement would have been limited to the spring spawning runs, given the assumed level of fishing technology. A possible swan bone was noted in Feature 8. This may indicate access to spring and/or fall migrants.

Salmonid bone was noted in a number of contexts: Feature 1, Feature 8, Feature 51, Feature 68, and Feature 69. At this point, only salmonid vertebrae have been recognized. No diagnostic salmonid cranial bones were immediately identified. While the salmonid evidence most probably represents lacustrine salmonid fishing in the autumn, no specific seasonality is indicated because this evidence may only reflect consumption of preserved salmonid fillets. More extensive analysis would be necessary to test for salmonid cranial bone (possibly indicative of consumption of fresh salmonids), to test for the presence of salmonid vertebrae in other features, to establish a species representation profile, and to establish an indication of dietary significance in relation to other fish species. It may be noted, however, that the overall ratio of cranial bones to fish vertebrae in the assemblage seems to be rather high. If analysis proves this impression to be accurate, the possibility that processed fish were exported from this site for use at other locations should be considered.

CHAPTER 7: 14C CHRONOLOGY

by Robert H. Pihl and David A. Robertson

This section discusses the two radiocarbon dates obtained from the Holmedale site excavations and places them within the current Princess Point chronology of southwestern Ontario.

7.1 Holmedale ¹⁴C Dates

Two samples recovered from the Holmedale site were submitted for radiocarbon dating. Both dates were subsequently calibrated using CALIB 4.0, an updated version of the programme developed at the Quaternary Isotope Lab at the University of Washington (Stuiver and Reimer 1993) with the calibration dataset INTCAL98.14C (Stuiver et al. 1998).

A single carbonized maize kernel (86 mg) from Feature 1 (Figure 1.4) was submitted to the University of Toronto's IsoTrace Radiocarbon Laboratory, Accelerator Mass Spectometry Facility, for an AMS date, yielding a result of 1010 ± 70 B.P. (TO-6079). Rounded to the nearest decade, this date calibrates to A.D. 1020 with a 1δ range of A.D. 980-1050, and a 2δ range of A.D. 890-1200.

The second date was run on a 3.96 g sample of carbonized walnut fragments collected from Features 1 and 7c (Figure 1.4). This material was sent to the University of Waterloo's Environmental Isotope Laboratory for a conventional date, and yielded a result of $1080 \pm 80 \, \text{B.P.}$ (WAT-3005). Rounded to the nearest decade, the calibrated date is A.D. 980 with a 1δ range of A.D. 890-1020, and a 2δ range of A.D. 780-1160.

Both dates are chronologically consistent with artifactual remains from the site, notably the ceramics, and are therefore considered acceptable. Using the modal dates, a site occupation spanning ca. A.D. 985-1020 is thus minimally indicated.

7.2 Princess Point Chronology

In a recent article published in *Northeast Anthropology*, David Smith has compiled a list of all available radiocarbon dates from southern Ontario spanning the Middle to early Late Woodland periods, subjected them to calibration (Stuiver and Pearson 1993) and provided commentary on the nature and timing of the cultural transition between these two periods

(which will be reviewed in a later section). The Princess Point dates assessed by Smith are summarized in Table 7.1 and Figure 7.1, with the addition of the Holmedale and several other sites that he omitted from consideration.

Site	Lab No.	¹⁴ C Date (B.P.)	Calibrated Calendrical Date (A.D.)*	References
Bull's Point	TO-6341	960±60	980 (104 0) 1220	Smith 1996
Grand Banks	TO-5875	970±50	990 (1030)1210	Crawford et al. (1997)
Selkirk No. 5	DIC-175	1000±70	890 (102 0) 1220	Fox (1978)
Holmedale	TO-6079	1010±70	890 (10 20) 1210	this report
Moyer Flats	I-13,078	1050 <u>+</u> 80	820 (1010) 1170	Fox (1986)
Stratford Flats	I-13,081	1050 <u>+</u> 190	640 (101 0) 1300	Fox (1984)
Grand Banks	TO-4584	1060±60	880 (100 0) 1150	Crawford et al. (1997)
Holmedale	WAT-3005	1080±80	780 (980) 1160	this report
Varden	RIDDL-116	1120±240	440 (900, 910, 960) 1380	MacDonald (1986)
Scott-O'Brien	WAT-2875	1150±100	670 (890) 1150	ASI (1994)
Cayuga Bridge	S-714	1155±132	650 (890) 1 170	Stothers (1977)
Selkirk No. 5	DIC-167	1210 <u>+</u> 55	680 (820, 84 0, 860) 970	Fox (1978)
Grand Banks	TO-4585	1250±80	650 (780) 9 80	Crawford et al. (1997)
Varden	RIDDL-311	1330±140	430 (680)1 010	MacDonald (1986)
Peace Bridge	TO-5243	1330±60	630 (680) 8 20	Williamson et al. (1997)
Scott-O'Brien	WAT-2873	1410±70	540 (650) 770	ASI (1994)
Varden	RIDDL-115	1440±120	400 (640) 8 70	MacDonald (1986)
Grand Banks	TO-5308	1500±150	240 (570, 600) 830	Crawford et al. (1997)
Mohawk Chapel	I-13,534	1520±80	400 (550) 6 70	Fox (1984)
Varden	RIDDL-118	1560±190	80 (540) 880	MacDonald (1986)
Grand Banks	TO-5307	1570±90	260 (540) 6 60	Crawford et al. (1997)

*Calibrated at 2δ with the program CALIB 4.0, Method A (Stuiver and Reimer 1993). Calibrations are rounded to the nearest decade. One or more modal values are presented between the 2δ ranges.

It should be noted that Smith has included dates previously rejected by some of the original researchers because they appeared too early (i.e., dates from the Varden and Mohawk

Chapel sites), but recalibration has brought them more in line with his current and revised Princess Point chronology. Other dates from the Stratford Flats and Moyer Flats sites, however, have also been included in Table 7.1. Although both have been characterized as dating to the Early Ontario Iroquoian period (Smith 1997: Table 2; Fox 1990: 181), the material is described by Fox as typical of early Princess Point components (1984, 1986).

In his summary article on the Middle to Late Woodland Transition in southern Ontario, Fox argued (and apparently agreed with Stothers [1977: 113]) that an A.D. 600-900 timeline for Princess Point was still plausible (1990: 181). Based on the new battery of dates from the Grand Banks site, however, Smith is now suggesting that the time span of Princess Point should be broadened to A.D. 500–1030 (1997: 48). It should be noted that the two Holmedale dates are now clustered with six others that extend Princess Point chronology into the early to mid-11th century A.D.

41)	DATE: DRAWN BY: A.C. MARCH 15, 1999 FILE: 96PR-04M
BULL'S POINT (TO-6341) [AT ±25 AND ROUNDED TO THE FROM INTERCEPTS (STUIVER AND REIMER,
SELKIRK N HOLMEDA MOYER FLATS (1-13,076) 1 STRATFORD FLATS (1-13,076) 1 GRAND BANKS (TO-4584) HOLMEDALE (WAT-3005) 1 GRAND BANKS (TO-4585)	VALUES EXPRESSED E RANGES OBTAINED THOD A).
VARDEN (RIDDL-116)	1 CALIBRATION OF ¹⁴ C NEAREST DECADE. 2 CALIBRATED ¹⁴ C AG 1993), CALIB 4.0, ME
100 2001	Archaeological Services

Figure 7.1 PRIN

PRINCESS POINT 14C DATES (ADAPTED FROM SMITH [1997] WITH ADDITIONS)

CHAPTER 8: INTERPRETATIONS AND CONCLUSIONS

by Robert H. Pihl and Ronald F. Williamson

The Holmedale site represents a significant .5 hectare Transitional Woodland site, which afforded a rare opportunity to explore life during the late tenth and early eleventh centuries. In particular, the site yielded considerable artifact assemblages, which have been subjected to detailed analyses, as well as an extraordinary expanse of Transitional Woodland settlement patterns.

A total of 722 posts and 63 features was recorded across the site, the majority of which was concentrated within an area defined by a series of fence lines that appears to have been the primary occupation zone. The overall high variability of the post mould metrics is likely a consequence of the fact that they represent the remains of a diverse range of structural features, ranging from wall and support elements from houses, interior domestic activity and furnishings, temporary or expedient exterior structures such as drying racks or informal, slightly-built, shelters and fences.

Forty-five of the features were typed as pits that were generally of undifferentiated character and function and found to contain comparatively small quantities of secondary refuse. Such pits are broadly distributed throughout the site area, suggesting that they represent the vestiges of a broad range of interior structure and exterior activities. Five large, deep features are considered to have been storage pits that were subsequently used for refuse disposal since they were found to contain most of the recovered artifact assemblage. In general, these features exhibited deep basin to cylindrical flat-bottomed, or bell-shaped profiles, characterised by complex layering and lensing, indicative of gradual or periodic back-filling and possible re-use. Twelve features were typed as hearths, primarily on the basis of their shallow profiles, the predominance of fire-reddened soil in their fill, and their general dearth of artifactual contents.

The main focus of settlement activity at the site appears to have been concentrated in an area defined by a single-row palisade. The variable orientations of other fence sections, however, together with the fact that they frequently bisect areas of concentrated feature activity, suggests that the compound may have been expanded or contracted on one or more occasions to meet the changing needs of the inhabitants of the site. Unfortunately, the full extent and nature of the site at any one time cannot be discerned with any degree of confidence, due both to the discontinuous patterns of the post lines and to the possibility

that the construction of some of the house structures may have incorporated sections of palisading as house walls or vice versa.

Despite these difficulties, it would appear that the greatest concentration of activity was confined to an oval-shaped area measuring approximately 650 m². Within this compound, at least nine potential clusters of hearths and pits are readily apparent, some of which may have constituted house structures. Those structures that were hypothesized are largely consistent in terms of size and form with many of those documented at other roughly contemporary settlements.

A number of other features that were scattered throughout the main settlement area do not appear to have been situated within any structures. There was also a significant concentration of exterior activity to the northwest of the main settlement area, much of which seems to have been focused around an approximately ten metre long fence of single, evenly spaced posts.

The density of posts and features along with their hypothesised interior structure and exterior activity area associations suggest a substantial occupation in both fair and inclement weather. While the settlement patterns are not as clear as those from the Porteous site (Stothers 1977), the Holmedale data do represent the first extensive examination of a potentially year-round occupied Transitional Woodland community since that time.

An extensive artifact assemblage was recovered from the site, much of it from the storage/refuse features, whose presence are also indicative of long-term occupation. The ceramic sample consists of a total of 2,761 specimens and includes pieces of cooking and storage vessels, fragments of small or juvenile-like pots, portions of smoking pipes, and a number of miscellaneous ceramic objects. The sample is clearly dominated by cooking vessel fragments, comprising 98% of the analyzable sherds while eight juvenile vessel fragments, 34 pipe fragments, and seven miscellaneous ceramic objects were also recovered.

Sixty-five vessels were delineated. These are characterized by an absence of coil breaks and the large number of exfoliated sherds suggests that vessels were manufactured by modeling or accretion and not by coiling. Although few are sufficiently reconstructed to evaluate, most vessels were probably semi-conoidal or rounded in shape with both conical and rounded bases. A significant amount of morphological variation is, nevertheless, evident. Upper rims are uncollared but frequently thickened, short to medium in height,

vertical to slightly outflaring, and mostly flat-lipped. The vessels are generally well made and feature relatively thin wall construction, which generally extends to the base on several reconstructed portions. Incipient castellations were observed on 13 vessels (or 20% of the sample) and at least one shoulder is crenellated. Although the exterior upper rim, neck, and shoulder area was routinely smoothed to accept the decoration, cord-marked surfaces were sometimes incorporated into the motifs, either as a background or an undecorated zone. Surface treatment routinely involved cord-marked paddling, but fabrics were sometimes impressed on the bodies, often immediately below the shoulder.

There is substantial variation within exterior vessel decoration although the key characteristics of the Holmedale ceramic decoration are as follows:

- exterior upper rim decoration limited to one or sometimes two bands of obliques stamped with a cord-wrapped tool;
- a single row of encircling circular punctates located at the neck. These usually raise
 interior bosses and are usually positioned at or near the juncture between
 decorative zones located on the upper rim and neck-body. Exterior bosses are far
 less common, but all of the vessels with this trait were found in Features 68 and 69,
 two large, adjacent circular refuse pits in the middle of the site; and
- neck-body decoration consisting of one or more horizontal bands of designs, including rows of horizontal lines, larger zones or narrow bands of oblique or vertical lines, zones of opposed oblique, vertical and/or horizontal lines, a variety of uni-directional or opposed plats, and panels of nested, right-angled lines. The sequence of these designs on the vessel body is highly variable, but often began with (and sometimes was limited to) a zone of horizontals. The designs were also characteristically stamped with a cord-wrapped implement.

Both Stothers and, more recently, Smith have discussed Princess Point ceramics in terms of several key traits: 1) the use of cord-wrapped stick for decorated ceramics and cord-roughened surfaces for undecorated ceramics; 2) the use of exterior punctates which (usually) raise interior bosses; and 3) the application of decoration in discrete horizontal bands down the exterior and interior surfaces of the vessel. There is no question that the Holmedale ceramics exemplify these key traits and, therefore, can be confidently attributed to a Princess Point cultural affiliation.

Their real value, however, is in their contribution towards an understanding of what constitutes a local Princess Point ceramic micro-tradition. In particular, the presence of a cord-wrapped cord element needs further investigation as this is not well documented elsewhere. Both the variability in design sequence and the predominance of "s" twisted cording also require further comparative analyses.

A small sample of pipe fragments, including plain bowls and several faceted stems, was recovered from the site as well as **a** nearly intact undecorated vasiform pipe.

The lithic sample includes an extensive flaked lithic and modest ground stone industry. The flaked stone assemblage features numerous triangular points, unique hafted bifaces and/or knifes, exquisite T-drills, hafted scrapers, and a large debitage sample, the majority of which relates to biface reduction and tool refurbishing. A small but significant presence of Upper Mercer chert from Ohio was noted in the debitage, perhaps signaling a continuation of trade alliances often reflected on sites of the preceding period in southern Ontario. The fact that most of the debitage sample was recovered from the plough zone rather than from subsurface features also suggests that some caution should be exercised when removing topsoil from sites of this nature, in the absence of sufficient sampling of the plough zone.

Although few bone artifacts were recovered, one noteworthy specimen is an exquisite ornamental object made from antler, perhaps a comb fragment, which was later used to mark pottery. The site also yielded clear evidence for a rodent and in particular, beaver, incisor chisel industry. Some of these tools were serrated. There were even signs of intentional incisor removal in an otherwise almost entire beaver carcass in one of the excavated posts.

Stephen Cox Thomas's faunal identifications include cranial and distal appendicular deer elements, the most abundant mammal species, although he pointed to some evidence for far distant off-site hunting and processing of deer. He also documented beaver, muskrat, raccoon, large canis, bear, grey squirrel and eastern chipmunk. Bird species include swan, eagle, and sandhill crane, although passenger pigeon and grouse are most numerous. Among the abundant fish remains are sunfish (blue gill), sucker (redhorse), perch, bullhead, and, surprisingly, several lakefish varieties such as cisco, lake trout and whitefish, presumably caught in remote deep lake waters. Thomas also identified snapping turtle, painted or box turtle, and bullfrog. Perhaps most surprising, however, was his identification of a sizable sample of eel bones, a rare find for the Lake Erie watershed and indicative of transport from the Lake Ontario watershed. This evidence for a clear link

between the Lake Ontario and Grand River based populations also requires long-term consideration and a search for reflections of this same connection in other artifact classes.

The floral analysis was undertaken by Stephen Monckton. The inhabitants of the site cultivated maize and tobacco. Plant remains also indicate that the settlement benefitted from a rich source of nuts and locally available forest edge plant species such as bramble, strawberry, and adventive weeds such as chenopod. The prominence of collected plant foods in the majority of archaeological deposits is evidence of a significant contribution of non-cultivated plants to the peoples diet. The ubiquity and quantity of maize, however, suggests a degree of reliance on this cultigen well within the range of variability found on protohistoric Iroquoian settlements. It is, therefore, likely that maize cultivation was already well established by the time that Holmedale was occupied although a heavy dietary reliance on nuts is also indicated.

Two samples were submitted for radiocarbon dating. A single carbonized maize kernel from Feature 1 was submitted to the University of Toronto's IsoTrace Radiocarbon Laboratory, for an AMS date, yielding a result of 1010 ± 70 B.P. Rounded to the nearest decade, this date calibrates to A.D. 1020 with a 1δ range of A.D. 980-1050. The second date was run on a sample of carbonized walnut fragments collected from Features 1 and 7c. This material was sent to the University of Waterloo's Environmental Isotope Laboratory for a conventional date, and yielded a result of 1080 ± 80 B.P.. Rounded to the nearest decade, the calibrated date is A.D. 980 with a 1δ range of A.D. 890-1020.

Both dates are chronologically consistent with artifactual remains from the site, notably the ceramics, and are, therefore, considered acceptable. Using the modal dates, a site occupation dating to the ca. A.D. 985-1020 period is thus indicated. Based on the new battery of dates from the Grand Banks site, David Smith is now suggesting that the time span of Princess Point should be broadened to A.D. 500–1030. The two Holmedale dates, which cluster with six others, appear to confirm the extension of Princess Point into the early to mid-11th century A.D.

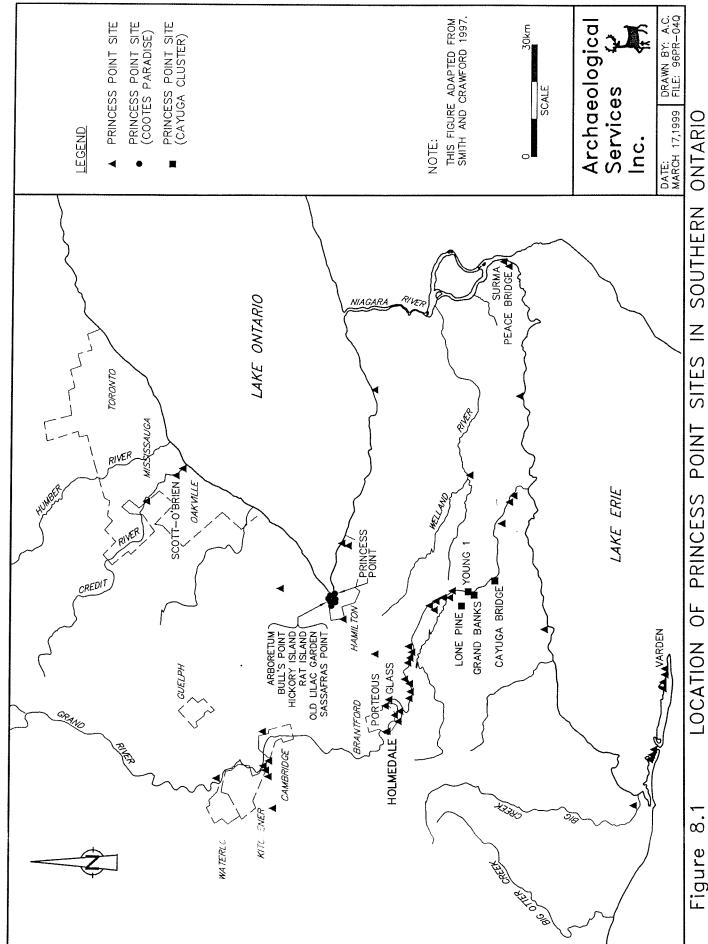
The Holmedale site, then, is one of numerous Princess Point sites that have been found along the lower reaches of the Grand River between Brantford and Lake Erie. It had been thought previously that cultigens were introduced into the region during this period but that the settlement-subsistence systems of the previous Middle Woodland period had remained virtually unchanged. Indeed, Stother's (1977:122) original characterization of the basic Princess Point subsistence-settlement system proposed that for most of the period, communities followed annual subsistence cycle involving interior fall and winter microband

hunting camps, which were situated to exploit nuts and animals attracted to mast-producing forest, and larger spring and summer macroband settlements, which were located on major rivers and lakeshores in order to exploit rich aquatic resources. Warm season occupations likely also entailed limited agricultural pursuits, although for the most part subsistence- settlement patterns were consistent with the strategies of populations of the preceding Middle Woodland period. Stothers further suggested (1977:162-165) that the end of the Princess Point period (*circa* 850 A.D.) witnessed an intensification of food production and sedentism that heralded the onset of Early Iroquoian period, resulting in another settlement pattern shift towards more sedentary communities situated in well-drained sandy uplands. Other researchers have questioned various aspects of this model, suggesting, for example, that the current archaeological record is not sufficiently detailed to allow the macro-band/microband hypothesis to be rigorously tested (Fox 1990:179; Smith and Crawford 1997:25).

Recently, a new program of Transitional Woodland period site survey and excavation has been undertaken by David Smith and Gary Crawford, of the University of Toronto, along the Grand in the vicinity of Cayuga and at Cootes Paradise in Burlington Bay (Figure 8.1). Their more recent investigations have identified the presence of maize on several of the Cayuga area sites as early as *ca* A.D. 550-600, although the contribution of this cultigen to the overall subsistence regime at this early date appears to have been slight. Nevertheless, this early appearance of maize, is one of several factors that have led Smith and Crawford to speculate that in the lower Grand River valley, "Princess Point society was dependent on food production as a subsistence regime" by *circa* A.D. 1000. They have further suggested that the overall span of the "Princess Point Tradition" be expanded to *circa* A.D. 500-1100.

The results of the Holmedale site excavation support both of these propositions although the shift to food production did not bring about a transition to formal village life given the settlement-subsistence patterns evident on this site and other Early Iroquoian sites of the subsequent three centuries. That transition was clearly long and gradual although food production obviously led to some re-orientation in settlement patterns, as larger sites, which appear to have been more intensively occupied and subject to a greater degree of internal spatial organization, were located with increasing frequency on terraces overlooking the floodplains of large rivers, or on floodplain river bars. Whether such sites represent year-round settlements or long-term repeated seasonal occupations remains a matter of some debate, as it does for the Holmedale site.

In conclusion, the Holmedale excavation has contributed to an increasing understanding of this period as one in which communities, probably descendant from local Middle Woodland populations, were shifting to food production and occasionally moving their settlements to terraced locales perhaps enabling longer term occupation. While the Holmedale community was participating in a widespread ceramic decorative convention, their assemblage also appears to attest to a local ceramic micro-tradition. This is fully consistent with our notion of socio-political organization at this time as consisting of a number of autonomous communities distributed about the early eleventh century landscape. Hopefully with more detailed analyses of other Princess Point assemblages we will be able to begin to reconstruct the actual degree of social and political relatedness between these communities that are reflected, for example, in the transport of eel and lake fish filets from distant locales. Investigating these networks will no doubt also contribute to the debate regarding Iroquoian origins and cultural evolution.



∞ 7. Figure

SOUTHERN Z SITES POINT **PRINCESS** P LOCATION

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APPENDICES	
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Holmedale Site (AgHb-191): Descriptive Data for Features

APPENDIX 1

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	Dk Soil		75	70	40	09	09	70	75	9	70	70	75	09	70	75	02	70	70	70	75	9	9	75	9	70	70	20	ď
	Munsell Value (Primary Matrix)	al Pits	10YR4/4	10YR4/4	5YR4/2	10YR3/2	10YR2/2	7.5YR3/2	10YR2/2	10YR3/4	10YR3/3	7.5YR3/2	10YR2/2	10YR4/2	7.5YR3/2	10YR3/3	10YR3/2	10YR3/2	7.5YR3/2	10YR3/3	10YR3/2	10YR3/4	7.5YR4/4	10YR3/2	10YR3/2	10YR3/2	10YR3/3	10YR5/4	10YR3/2
	Feature FIII	General Pits	Mottled	Mottled	Mottled	Mottled Lensed	Mottled	Mottled	Mottled	Mottled Lensed	Mottled	Mottled	Mottled	Mottled	Mottled	Mottled Layered	Mottled	Mottled	Mottled	Mottled	Mottled	Mottled	Mottled	Mottled	Mottled	Mottled	Mottled	Mottled	Mottlod
	Profile Shape	-	Shallow Basin	Irregular	Skewed	Irregular	Irregular	Irregular	Irregular	Irregular	Irregular	Irregular	Shallow Basin	Deep Basin	Irregular	Deep Basin	Shallow Basin	Shallow Basin	Irregular	Shallow Basin	Irregular	Irregular	Shallow Basin	Shallow Basin	Shallow Basin	Shallow Basin	Shallow Basin	Shallow Basin	
	Plan Shape		Ovate	Irregular	Circular	Irregular	Ovate	Ovate .	Ovate	Irregular	Irregular	Circular	Irregular	Ovate	Ovate	Ovate	Ovate	Ovate	Ovate	Irregular	Irregular	Ovate	Irregular	Circular	Ovate	Circular	Ovate	Ovate	Irrogular
	Volume (M³)		0.01	0.05	0.01	0.04	0.08	60.0	0.18	0.28	90.0	0.16	0.28	0.01	90.0	0.17	0.01	0.04	0.02	0.02	0.11	0.21	0.05	0.01	0.05	0.01	90.0	0.01	0.46
	Depth (Cm)		8	10	8	13	14	14	18	40	30	24	16	18	25	39	13	20	22	17	26	36	22	6	21	10	23	12	12
	Width (Cm)		30	9	34	82	75	80	83	88	39	80	100	20	43	53	24	42	32	36	65	62	34	40	45	35	43	21	8
	Length v		32	88	35	402	80	82	122	88	55	82	175	26	25	81	34	49	35	39	99	95	29	40	20	35	63	33	132
	Feat. No.		02	03	92	20	60	10	1	12	13	14	15	16	17	18	19	20	21	22	23	27	28	59	30	32	34	42	Ş

									Fill Composition (%)	sition (%	(
	Width (Cm)	Depth (Cm)	Volume (M³)	Plan Shape	Profile Shape	Feature Fill	Munsell Value (Primary Matrix)	Dk Soil	Subsoil	Ash Fin	Fired Cpr	Contents and Comments
	25	38	0.26	Irregular	Irregular	Mottled	10YR3/3	09	40			Chert, shrd, bone, fcr/disturbed
	72	13	0.13	Irregular	Irregular	Mottled	10YR4/2	09	30		10	
	38	12	0.02	Ovate	Shallow Basin	Mottled	10YR5/4	08	15			5 Shrds/
- 1	105	28	0.50	Ovate	Shallow Basin	Mottled	5YR3/3	09	30		10	Projectile Point & Wrkd Bone/
	55	15	0.05	Irregular	Shallow Basin	Mottled	10YR3/1	20	30		10 10	
	28	26	0.10		Shallow Basin	Mottled	7.5YR2.5/2	52	25			Chert,potry,calbne/postdates F54 & 1 Post
	52	20	0.09	Irregular	Irregular	Mottled	10YR3/2	0.2	30			Chert,shrd/
47	37	11	0.02	Ovate	Irregular	Mottled Lensed	5YR2.5/2	20	25		25	None/
23	23	12	0.01	Circular	Shallow Basin	Mottled	10YR2/2	06	2			5 Pottery/
28	25	7	0.01		Shallow Basin	Mottled	10YR3/4	22	20			5 Sherd,fcr/
36	26	12	0.01	Ovate		Mottled	7.5YR3/2	92	30			5
104	62	38	0.25	Ovate		Mottled	10YR2/2	09	30		10	Chert, shrds, bone/
89	4	16	0.05	Ovate		Mottled	10YR2/2	09	30		10	Chert,shrd,bone/
23	23	19	0.01	Circular		Mottled Lensed	10YR3/2	75	25			Nuts,chert/
153	43	25	0.16	Irregular	Shallow Basin	Mottled Lensed	10YR2/2	09	40			Point,shrds/
30	24	17	0.01	Ovate	Deep Basin	Mottled	7.5YR3/3	0/	30			Chert, shrd, bone/
65	64	30	0.12	Irregular	in	Mottled Lensed	7.5YR4/3	02	30			None/
139	98	56	0.74	Irregular	Irregular	Mottled Lensed	10YR3/4	0.2	30			Maize,shrd/
						Storac	Storage Pits	:				
71	64	80	0.36	Ovate	Deep Basin	Mottled Lensed/Layered	10YR3/3	09	30		10	Pipebowl,projpoint,wrkdbone 4 Major strata
179	142	92	2.34	Irregular	Flat-bottomed	Mottled Lensed/Layered	10YR3/2	20	30		20	Pot,point,wrkdbone 5 Major strata
165	150	65	1.61	Irregular	Flat Bottomed	Mottled Lensed	7.5YR2.5/1	70	20		10	Innis Pt,shrd,pipestem 2 Major strata; Stones at Base

										Fill Composition (%)	osition	(%)		
Feat. No.	Length (Cm)	Width (Cm)	Depth (Cm)	Volume (M³)	Volume Plan Shape Profi (M³)		e Shape Feature Fill	Munsell Value (Primary Matrix)	Dk Soil	Subsoil	Ash	Fired	ğ	Contents and Comments
69	105	105	20	0.55	Circular	Bathtub	Mottled Lensed	10YR2/2	80	10			10	Pottery,chert,etc. 3 Major strata
79	98	73	39	0.28	Ovate	Flat Bottomed	Mottled Lensed	7.5YR3/2	09	30			6	Chert, shrds 2 Major strata
							He	Hearths						
40	99	62	7	1	Ovate	Shallow Basin	Mottled	5YR4/6	30	30		40		None/
46	142	48	12	1	Ovate ·	Shallow Basin	Mottled	5YR5/3	20	30		20		None/
49	53	51	5	1	Ovate	Shallow Basin Mottled	Mottled	7.5YR4/6	40	20		40		Sherd, Chert,bone/predates F48
54	93	74	32	•	Irregular	Irregular	Mottled	2.5YR3/4	40	20		40		Chert/predates F53 & 1 Post
58	110	72	6	,	Irregular	Skewed	Mottled	5YR3/4	40	30		30		None/
09	65	45	9	-	Irregular	Skewed	Mottled	5YR4/6	40	20		40		Sherd/
62	110	110	16	•	Circular	Irregular	Mottled	2.5YR4/6	40	30		30		None/
99	74	51	16	•	Ovate	Shallow Basin	Mottled	5YR4/4	20	30		20		None/
29	06	40	18	1	Irregular	Irregular	Mottled Lensed	5YR4/4	30	30		40		Shrd,fcr/
92	65	36	10	-	Ovate	Skewed	Mottled	5YR3/3	40	20	10	25	5	Pottery/
22	113	70	16	1	Irregular	Shallow Basin	Mottled	5YR4/4	35	30		35		Chert, sherd/predates 1 Post
80	68	54	16	1	Ovate	Shallow Basin	Mottled Lensed	5YR4/6	25	25	0	35	C)	Chert,sherd/

APPENDIX 2 CERAMICS

Appendix 2.1 Ceramics: Catalogue and Selected Descriptive Data¹

Provenlence	Cat #	Nature of Specimen	Description of Specimen	Comments
		1 m ² TES	Γ UNITS AND BLOCK EXCAVATIONS ²	
475-175*	1	body sherd	weight: 5.6 gr smoothed over cord-marked (SC) exterior and smoothed (SM) interior surfaces	
	2	fragmentary sherds	weight: 10.0 gr SC, CM and SM surfaces	
475-190*	3	fragmentary sherds	weight: 10.0 gr SC, CM and SM surfaces	
475-200*	4	body sherd	weight: 3.2 grSC exterior and SM interior surfaces	
	5	fragmentary sherds	weight: 10.0 gr SC, CM, and SM surfaces	
475-209*	6	fragmentary sherds	weight: 3.2 gr SC and SM surfaces	
175-224* 178-214	7	fragmentary sherd	weight: 2.8 gr SC surface	
	8	body sherd	weight: 28.9 gr SC exterior and SM interior surfaces	
	9	3 body sherds	weight: 28.9 gr CM exterior and SM interior surfaces	
	10	fragmentary sherds	weight: 60.0 gr CM and SC surfaces; 1 has cord-wrapped stick (CWS) stamps	
478-215	11	fragmentary rim sherd	weight: 1.5 grdetails: SC exterior and SM interior (but SC at lip edge] surfaces; vertical rim with flat lipdecoration: exterior-single band of short left oblique (LO) CWS stamps [upper nm] superimposed with single band of very short RO stamps [lip edge], over undecorated zone [upper neck-?]; interior-undecorated [upper nm-?]; lip-CM but undecoratedmeasurements: lip thickness-6.4 mm; neck thickness-5.7 mm	
	12	fragmentary rim sherd	weight: 1.4 grdetails: SM exterior and interior surfaces; flat lipdecoration: exteriorband of short vertical (VE) CWS stamps [upper rim], over at least 1 HO CWS stamps with super-imposed circular punctate (CP) [neck-?]; interior band of short LO CWS stamps [upper rim] undecorated zone superimposed with bosses (BO); lipband of LO CWS stampsmeasurements: lip thickness6.1 mm; neck thickness7.0 mm	

¹ Cooking and juvenile vessel fragments, pipe fragments and miscellaneous ceramic objects are listed in this catalogue, but their descriptive data are provided in separate tables (e.g. see Appendix 3 for the sample of ceramic vessels).

² Squares designated with an asterisk (*) are 1 m² test units. The unmarked squares are part of the various block excavations.

Provenience	Cat#	Nature of Specimen	Description of Specimen	Comments
	13	fragmentary rim sherd	weight: 2.0 grdetails: undetermined surfaces; pointed lipdecoration: exteriorsingle band of RO CWS stamps, over at least 2 rows of HO CWS stamps with superimposed CP [neck-?]; interior partial band of RO dragged CWS stamps with superimposed BO [upper rim-?]; liptwo HO lines at lip edgesmeasurement: lip thickness7.5 mm	
	14	shoulder sherd	weight: 5.4 grSC exterior and combed interior surfacesdecoration: exteriorat least 1 band of RO over rows of HO CWS stamps; interiorundecoratedmeasurement: shoulder thickness5.6 mm	
	15	shoulder sherd	weight: 12.4 grSM exterior and interior surfacesdecoration: exteriorrows of HO CWS stamps; interior undecoratedmeasurement: shoulder thickness9.1 mm	
	16	body sherd (portion of base)	weight: 72.6 grSC exterior and SM interior surfacesmeasurement: body thickness13.5 mm	
	17	5 body sherds	weight: 105.5 grCM exterior and sloughed interior surfaces	
	18	fragmentary sherds	weight: 128.8 gr SC, CM and SM surfaces; a few have traces of CWS stamps	
478-216	19	fragmentary rim sherd	weight: 3.6 grdetails: SM exterior and interior surfaces; out-flaring rim with rounded lip; possibly coileddecoration: exteriorband of RO CWS [upper rim] over at least 1 row of HO CWS stamps [upper neck-?]; interiorpartial band of RO CWS stamps [upper rim-?]; lipRO CWS stampsmeasurement: lip thickness8.3 mm	
	20	2 body sherds	weight: 16.4 gr CM exterior and SM interior surfaces	
	21	4 body sherds	weight: 42.9 gr SC exterior and SM interior surfaces	
	22	fragmentary sherds	weight: 79.3 gr CM and SC surfaces	
479-165*	23	fragmentary sherds	weight: 7.6 gr SC surfaces	
479-199*	24	body sherd	weight: 5.5 grSC exterior and SM but uneven interior surface	
	25	fragmentary sherds	weight: 21.5 gr SC surfaces	
479-214	26	shoulder sherd	weight: 4.3 grCM exterior and SM interior surfacesdecoration: exterior-basal portion of band of LO CWS stamps, over undecorated zone [body]; interiorundecoratedmeasurement: shoulder thickness-8.6 mm	
	27	body sherd	weight: 8.8 gr CM exterior and SM interior surfaces	

Provenience	Cat#	Nature of Specimen	Description of Specimen	Comments
	28	fragmentary sherds	weight: 133.7 grCM, SC and SM surfaces; a few have CWS stamps	
479-215	29	2 shoulder sherds	weight: 7.1 grSC exterior and SM interior surfacesdecoration: exterior—at least 1 band of RO CWS stamps; interior—undecoratedmeasurement: shoulder thickness–5.0 mm	
	30	body sherd	weight: 12.3 gr CM exterior and SM interior surfaces	
	31	3 body sherds	weight: 13.0 gr SC exterior and SM interior surfaces	
	32	fragmentary sherds	weight: 165.2 gr CM, SC and SM surfaces; at least 1 sherd has CWS stamps, another has a rectangular PU	
279-216	33	shoulder sherd	weight: 6.6 grSM exterior and interior surfacesdecoration: exteriorrows of HO CWS stamps; interiorsmoothed over irregular CWS stampsmeasurement: shoulder thickness-7.3 mm	
	34	2 body sherds	weight: 7.0 gr CM exterior and SM interior surfaces	
480-175*	35	2 body sherds	weight: 8.0 gr SC exterior and SM interior surfaces	
	36	fragmentary sherds	weight: 163.2 gr CM, SC and SM surfaces; several have CWS stamps	
	1231	pipe fragment	-weight: 2.1 gr -pipe bowll fragment; see pipe descriptions	
	37	fragmentary sherds	weight: 8.3 gr SC and SM surfaces	
480-185*	38	2 rim sherd (joined)	weight: 29.7 gr see vessel descriptions	Vessel 1
	39	neck sherd	weight: 1.2 grSC exterior and SM interior surfacesdecoration: exterior-opposed (RO/LO) CWS stamps; interiorundecorated	
	40	2 body sherds	weight: 18.0 gr CM exterior and SM interior surfaces	
	41	body sherd	weight: 9.7 gr SC exterior and SM interior surfaces	
	42	fragmentary sherds	weight: 43.8 gr CM, SC and SM surfaces	
480-189*	43	body sherd	weight: 6.8 gr CM exterior and SM interior surfaces	
	44	body sherd	weight: 3.5 gr SC exterior and SM interior surfaces	
	45	fragmentary sherds	weight: 31.5 gr CM, SC and SM surfaces; several have CWS stamps	

Provenience	Cat#	Nature of Specimen	Description of Specimen	Comments
480-209*	46	fragmentary rim sherd	weight: 4.3 grdetails: SC exterior and SM interior surfaces; vertical rim with flat lipdecoration: exteriorsingle band of short VE CWS stamps [upper rim], over undecorated [neck-?]; interiorsingle band of VE CWS stamps [upper rim], over undecorated zone [neck-?]; lip-LO CWS stampsmeasurements: lip thickness-6.7 mm; neck thickness-7.3 mm	
	47	fragmentary rim sherd	weight: 4.2 grdetails: SM exterior and interior surfaces; ? rim with flat lipdecoration: exterior1 band of RO CWS stamps [upper rim] over undetermined CWS stamps [neck-?] with superimposed CP [neck]; interiorshort band of RO CWS stamps [upper rim], over undecorated zone [neck-?] with superimposed BO [neck]; lipRO CWS stampsmeasurements: lip thickness6.1 mm; neck thickness7.4 mm	
	48	fragmentary rim sherd	weight: 3.6 grSM exterior and SC interior surfaces; ? rim with rounded lipdecoration: exterior-single band of dragged RO CWS stamps [upper rim], over undecorated zone [neck-?] with superimposed BO; interior- single band of dragged LO CWS stamps [upper rim], over undetermined zone [neck-?] with superimposed ovoid PU [neck]; lip-RO CWS stampsmeasurement: lip thickness-7.4 mm	
	49	neck sherd	weight: 13.8 grSM exterior and interior surfacesdecoration: exteriorLO plats of short HO CWS stamps; interiorundecoratedmeasurements: neck thickness7.0 mm; shoulder thickness9.2 mm	
	50	shoulder sherd	weight: 4.0 mmSM exterior and interior surfacesdecoration: exteriorrows of HO CWS stamps; interiorundecoratedmeasurement: shoulder thickness6.1 mm	
	51	shoulder sherd	weight: 4.1 grSM exterior and interior surfacesdecoration: exteriorpartial row of RO CWS stamps; interiorundecoratedmeasurement: shoulder thickness6.5 mm	
	52	shoulder sherd	weight: 4.1 gr -SC [decorative zone] over SM [body] exterior and SM interior surfacesdecoration: exteriorzone of LO plats of RO CWS stamps, over undecorated zone [body]; interiorundecoratedmeasurement: shoulder thickness-6.8 mm	
	53	shoulder sherd	weight: 4.0 grSM exterior and interior surfacesdecoration: exterior-RO CWS stamps; interiorundecoratedmeasurement: body thickness8.0 mm	
	54	shoulder sherd	weight: 4.9 grSC exterior and SM interior surfacesdecoration: exterioroblique CWS stamps; interiorundecoratedmeasurement: shoulder thickness6.5 mm	
	55	neck-shoulder sherd	weight: 21.7 grSM exterior and interior surfacesdecoration: exteriorrows of HO CWS stamps; interiorundecoratedmeasurements: neck thickness6.1 mm; shoulder thickness8.8 mm	
	56	body sherd	weight: 5.5 grCM exterior and SM interior surfaces	

Provenience	Cat#	Nature of Specimen	Description of Specimen	Comments
	57	5 body sherds	weight: 24.5 gr SC exterior and SM interior surfaces	
	58	4 body sherds	weight: 32.0 gr SC exterior and SM (but uneven) interior surfaces	
	59	fragmentary sherds	weight: 141.2 gr CM, SC and SM surfaces; a few have CWS stamps or cording	
480-214	60	fragmentary rim sherd	weight: 2.4 gr -details: SM exterior and interior surfaces; ? rim with flat lipdecoration: exteriorband of short RO CWS stamps [upper rim], over at least 1 row of HO CWS stamps [neck-?]; interiorband of short RO CWS stamps [upper rim], over undecorated zone [neck-?]; lipRO CWS stampsmeasurement: lip thickness5.7 mm	
	61	neck sherd	weight: 6.8 grsloughed exterior and SM interior surfacesdecoration: exteriorundetermined, with CP; interiorundecorated	
	62	body sherd	weight: 3.5 gr CM exterior and SM interior surfaces	
	63	2 body sherds	weight: 11.7 gr SC exterior and SM interior surfaces	
480-215*	64	fragmentary sherds	weight: 44.3 gr CM, SC and SM surfaces; several have CWS stamps	
	65	shoulder sherd	weight: 5.7 grSC extenor and SM interior surfacesdecoration: extenorrows of HO CWS stamps; interiorundecoratedmeasurement: shoulder thickness-8.0 mm	
	66	6 body sherds	weight: 24.3 gr SC exterior and SM interior surfaces	
	67	fragmentary sherds	weight: 111.5 gr CM, SC and SM surfaces; many with CWS stamps	
480-216	68	fragmentary rim sherd .	weight: 1.3 grdetails: SM exterior and interior surfaces; ? rim with round lipdecoration: exteriorpartial band of VE CWS stamps [upper rim-?]; interior partial band of VE CWS stamps [upper rim-?]; lipalternating RO and LO CWS stampsmeasurement: lip thickness5.7 mm	
	69	shoulder sherd	weight: 3.5 grSM exterior and interior surfacesdecoration: exterior—rows of HO CWS stamps; interior—undecoratedmeasurement: shoulder thickness—6.3 mm	
	70	shoulder sherd	weight: 5.0 grSM exterior and SC interior surfaces; possible coil breakdecoration: exteriorCWS stamps present; interiorundecoratedmeasurement: shoulder thickness8.0 mm	
	71	2 body sherds	weight: 9.4 gr SC exterior and SM interior surfaces	
	72	fragmentary sherds	weight: 134.4 gr CM, SC and SM surfaces; a few with CWS stamps	

Provenience	Cat#	Nature of Specimen	Description of Specimen	Comments
480-230*	73	shoulder sherd	weight: 5.0 grSM exterior and interior surfacesdecoration: exteriorrows of HO CWS stamps; interiorundecoratedmeasurement: shoulder thickness5.8 mm	
	74	shoulder sherd	weight: 7.1 grSM exterior and interior surfacesdecoration: exteriorrows of HO CWS stamps; interiorundecoratedmeasurement: shoulder thickness7.9 mm	
	75	2 body sherds	weight: 7.1 grSC exterior and SM interior surfaces	
	76	fragmentary sherds	weight: 9.1 gr SC and SM surfaces	
480-220*	77	shoulder sherd	weight: 3.7 grSM exterior and interior surfacesdecoration: exteriorrows of HO CWS stamps; interiorundecoratedmeasurement: shoulder thickness7.1 mm	
	78	shoulder sherd	weight: 3.8 grSM exterior and interior surfacesdecoration: exterior—at least 2 bands of RO CWS stamps; interior—undecoratedmeasurement: shoulder thickness—7.4 mm	
480-225*	79	2 body sherds	weight: 7.3 grCM exterior and SM interior surfaces	
	80	2 body sherds	weight: 7.5 grSC exterior and SM interior surfaces	
	81	fragmentary sherds	weight: 74.6 gr CM, SC and SM surfaces; at least 1 CWS stamps	
480-225*	82	2 body sherds	weight: 31.8 gr CM exterior and SM interior surfaces	
	83	2 body sherds	weight: 7.3 grSC exterior and SM interior surfaces	
	84	fragmentary sherds	weight: 60.7 grCM, SC and SM surfaces; several with CWS stamps	
480-244*	85	fragmentary sherds	weight: 17.5 grSC and SM surfaces	
485-221	86	fragmentary rim sherd	weight: 3.0 grdetails: undetermined exterior and SM interior surfaces; ? rim with round lipdecoration: exteriorundetermined [upper rim-?]; interiorsingle band of VE CWS stamps [upper rim], over undecorated zone [neck-?]; lipundecoratedmeasurements: lip thickness5.8 mm; neck thickness6.9 mm	
	87	shoulder sherd	weight: 4.6 grSM exterior and interior surfacesdecoration: exteriorrows of HO CWS stamps; interiorundecoratedmeasurement: shoulder thickness8.5 mm	
485-221 (continued)	88	shoulder sherd	weight: 2.0 grSM exterior and interior surfacesdecoration: exteriorrows of HO CWS stamps; interiorundecoratedmeasurement: shoulder thickness5.7 mm	

Provenience	Cat #	Nature of Specimen	Description of Specimen	Comments
	89	shoulder sherd	weight: 3.5 grSM exterior and interior surfacesdecoration: exteriorrows of HO CWS stamps; interiorundecoratedmeasurement: shoulder thickness7.8 mm	
	90	shoulder sherd	weight: 2.9 grSM exterior and sloughed interior surfacesdecoration: exteriorrows of HO CWS stamps; interiorundecoratedmeasurement: shoulder thickness6.8 mm	
	91	2 body sherds	weight: 4.5 grCM exterior and SM interior surfaces	
	92	3 body sherds	weight: 18.5 gr SC exterior and SM interior surfaces	
	93	fragmentary sherds	weight: 35.9 gr CM, SC and SM surfaces; a few with CWS stamps	
480-216	94	fragmentary rim sherd	weight: 2.2 gr -details: SM exterior and interior surfaces; out-flaring rim with flat, expanding lipdecoration: exterior-single band of VE CWS stamps [upper rim], over undeter- mined zone [neck-?] superimposed with CP [neck]; interior-single band of criss- crossed obliques (CC) CWS stamps [upper nm], over undecorated zone [neck-?] superimposed with BO [neck]; lip-RO CWS stampsmeasurements: lip thickness9.9 mm; neck thickness6.0 mm	
	95	juvenile vessel fragment	weight: 9.9 grSM exterior and interior surfaces; untempered; vertical rim profile with pointed lipdecoration: exterior, interior and lipundecoratedmeasurements: lip thickness3.0 mm; upper rim thickness10.9 mm	
	96	neck sherd	weight: 1.4 grSM exterior and interior surfacesdecoration: exteriorrows of HO CWS stamps; interiorundecoratedmeasurement: neck thickness5.9 mm	
	97	shoulder sherd	weight: 2.3 grSM exterior and interior surfacesdecoration: exteriorrows of HO CWS stamps; interiorundecoratedmeasurement: shoulder thickness6.0 mm	
485-222	98	shoulder sherd .	weight: 4.7 grSM exterior and interior surfacesdecoration: exteriorrows of HO CWS stamps; interiorundecoratedmeasurement: shoulder thickness8.2 mm	
	99	shoulder sherd	weight: 4.3 grSM exterior and interior surfacesdecoration: exterior-rows of HO CWS stamps; interior-undecoratedmeasurement: shoulder thickness-5.2 mm	
	100	neck-shoulder sherd	weight: 3.2 grSM exterior and interior surfacesdecoration: exterior-bands of RO CWS stamps; interiorundecoratedmeasurements: neck thickness-5.3 mm; shoulder thickness-7.0 mm	
485-222 (continued)	101	shoulder sherd	weight: 3.8 grSM exterior and interior surfacesdecoration: exterior—at least 2 bands of VE CWS stamps; interior—undecoratedmeasurement: shoulder thickness—6.0 mm	

Provenience	Cat:#	Nature of Specimen	Description of Specimen	Comments
	102	3 body sherds	weight: 13.6 gr CM exterior and SM interior surfaces	
	103	12 body sherds	weight: 69.5 gr SC exterior and SM interior surfaces	
	104	2 body sherds	weight: 22.5 gr SM exterior and interior surfaces	
	105	fragmentary sherds	weight: 157.3 gr CM, SC and SM surfaces; many with CWS stamps	
485-223	106	fragmentary nm sherd	weight: 2.5 gr -details: SM exterior and interior surfaces; ? rim with flat lip -decoration: exterior-single band of CC CWS stamps [upper rim], over at least 1 row of HO CWS stamps [neck-?]; interior- single band of RO CWS stamps [upper rim], over undecorated zone [neck-?]; lipLO CWS stampsmeasurements: lip thickness-6.8 mm; neck thickness-6.0 mm; upper rim height- 10.3 mm	
	107	fragmentary rim sherd	weight: 3.5 grdetails: SM exterior and interior surfaces; ? rim with splayed lipdecoration: exteriorsingle band of RO CWS stamps [upper rim], over undeter- mined zone [neck-?] superimposed with CP [neck]; interior- single band of RO CWS stamps [upper rim], over undecorated zone [neck-?] superimposed with BO?; lip- single HO CWS stampsmeasurement: lip thickness10.1 mm	
	108	fragmentary rim sherd	weight: 1.4 grdetails: SM exterior and interior surfaces; ? rim with flat lipdecoration: exteriorsingle band of short RO CWS stamps [upper rim] super- imposed with a single band of tiny LO CWS stamps [lip edge], over undecorated zone [neck-?]; interior- single band of short RO CWS stamps [upper rim], over unde- corated zone [neck-?]; lip-single HO CWS stampsmeasurement: lip thickness-6.3 mm	
	109	neck sherd	weight: 3.0 grSM exterior and interior surfacesdecoration: exteriorshort VE linear stamps (LI) superimposed with CP; interior-undecorated with superimposed BOmeasurement: neck thickness9.3 mm	
	110	neck sherd •	weight: 3.3 grSM exterior and interior surfacesdecoration: exterior-partial band of CC CWS stamps; interior-basal portion of band of RO CWS stampsmeasurement: neck thickness7.0 mm	
	111	shoulder sherd	weight: 3.8 grSM exterior and interior surfacesdecoration: exteriorrows of HO CWS stamps; interiorundecoratedmeasurement: shoulder thickness7.4 mm	
	112	shoulder sherd	weight: 5.5 gr -SM [decorative zone] over SC [body] exterior and SM interior surfacesdecoration: exteriorbasal portion of band of RO CWS stamps, over undecora-ted zone [body]; interiorundecoratedmeasurement: shoulder thickness6.5 mm	
485-223 (continued)	113	2 body sherds	weight: 24.0 gr CM exterior and SM interior surfaces	

Provenience	Cat#	Nature of Specimen	Description of Specimen	Comments
	114	9 body sherds	weight: 57.8 gr SC exterior and SM interior surfaces	
	115	fragmentary sherds	weight: 163.7 gr CM, SC and SM surfaces; several with CWS stamps	
485-224	116	rim sherd, frag. rim sherd, 2 neck sherds	weight: 21.4 gr see vessel descriptions	Vessel 2
	117	fragmentary rim sherd	weight: 1.8 grdetails: SC exterior and SM interior surfaces; ? rim with round lipdecoration: exteriorundecorated [upper rim-?] with CP [neck?]; interiorsingle band of RO CWS stamps [upper rim], over undetermined zone [neck-?] super-imposed with BO [neck]; lipfaint RO CWS stampsmeasurement: lip thickness5.3 mm	
	118	neck sherd	weight: 3.4 grSM exterior and interior surfacesdecoration: exteriorrows of HO CWS stamps over at least 1 band of RO CWS stamps; interiorundecoratedmeasurement: neck thickness7.0 mm	
	119	shoulder sherd	weight: 3.0 grSM [decorative zone] over SC [body] exterior and SM interior surfacesdecoration: exterior-basal portion of band of RO CWS stamps, over undecorated zone [body]; interiorundecoratedmeasurement: shoulder thickness-6.2 mm	
	120	shoulder sherd	weight: 2.1 grSM [decorative zone] over SM [body] exterior and SM interior surfacesdecoration: exteriorbasal portion of band of RO CWS stamps, over undecorated zone [body]; interiorundecoratedmeasurement: shoulder thickness5.9 mm	
	121	3 body sherds	weight: 22.1 gr SC exterior and SM interior surfaces	
	122	fragmentary sherds	weight: 78.9 gr SC and SM surfaces; a few with CWS stamps	
485-249*	123	fragmentary rim sherd	weight: 1.9 grdetails: SM exterior and sloughed interior surfaces; ? rim with flat lipdecoration: exteriorsingle band of RO CWS stamps [upper rim-?]; interior undetermined [upper rim-?]; lipfaint interrupted HO CWS stampsmeasurement: lip thickness-7.8 mm	
	124	body sherd	weight: 3.5 gr SC exterior and SM interior surfaces	
	125	fragmentary sherds	weight: 5.5 gr SC and SM surfaces	

Provenience	Cat #	Nature of Specimen	Description of Specimen	Comments
486-221	126	fragmentary rim sherd	weight: 12.5 grdetails: SM exterior and interior surfaces; ? rim with flat lipdecoration: exteriortwo bands of short RO CWS stamps [upper rim] over plats? of RO CWS stamps [neck-?] super-imposed with CP [neck]; interiorband of faint, short RO CWS stamps [just below lip], over undecorated zone [upper rim-?]; lip interrupted HO CWS stampsmeasurements: lip thickness9.5 mm; neck thickness11.5 mm; upper rim height 15.4 mm	
	127	neck sherd	weight: 3.7 grSC exterior and SM interior surfacesdecoration: exteriorat least 1 row of HO CWS stamps over LO plat of short RO CWS stamps; interiorundecoratedmeasurement: neck thickness5.6 mm	
	128	shoulder sherd	weight: 4.6 mmSM exterior and combed interior surfacesdecoration: exteriorfaint CWS stamps; interiorundecoratedmeasurement: body sherd10.8 mm	
	129	12 body sherds	weight: 76.8 gr SC exterior and SM interior surfaces	
	130	2 body sherds	weight: 9.8 mm SM exterior and interior surfaces	
	131	fragmentary sherds	weight: 66.0 gr SC and SM surfaces; at least 1 CWS stamps	
486-222	132	fragmentary rim sherd	weight: 5.0 grSC exterior and SM interior and lip surfaces; ? rim with flat lip, rising to a castellationdecoration: exteriorsingle band of CC CWS stamps [upper rim], over undetermined zone [neck-?]; interiorsingle band of CC CWS stamps [upper rim], over undecorated [neck-?]; lip-LO CWS stampsmeasurement: neck thickness8.0 mm	
	133	shoulder sherd	weight: 5.5 grSM exterior and interior surfacesdecoration: exteriorrows of HO CWS stamps; interiorundecoratedmeasurement: shoulder thickness9.4 mm	
	134	neck sherd .	weight: 2.9 mmSM exterior and interior surfacesdecoration: exteriorat least 2 bands of RO CWS stamps; interiorundecoratedmeasurement: neck thickness5.5 mm	
	135	body sherd	weight: 7.6 gr CM exterior and SM interior surfaces	
	136	6 body sherds	weight: 29.0 gr SC exterior and SM interior surfaces	
	137	2 body sherds	weight: 11.8 gr SM exterior and interior surfaces	
	138	fragmentary sherds	weight: 179.1 gr CM, SC and SM surfaces; several with CWS stamps	

Provenience	Cat#	Nature of Specimen	Description of Specimen	Comments
486-223	139	fragmentary rim sherd	weight: 4.3 grdetails: SM exterior and interior surfaces; ? rim with round lipdecoration: exterior-single band of RO CWS stamps [upper rim], over undetermined zone [neck-?] superimposed with CP [neck]; interior- partial band of RO CWS stamps [upper rim-?]; lipRO CWS stampsmeasurements: lip thickness-6.6 mm; neck thickness-7.3 mm; upper rim height-16.5 mm	
	140	fragmentary rim sherd	weight: 5.8 grdetails: SC exterior and sloughed interior surfaces; ? rim with round lipdecoration: exterior-single band of short RO CWS stamps [just below lip], over undecorated zone [upper rim], over plats of RO CWS stamps [neck-?] superimposed with CP [neck]; interiorundetermined; lipVE CWS stampsmeasurements: n/a	
	141	neck sherd	weight: 7.5 grSM exterior and interior surfacesdecoration: exteriorbands of RO CWS stamps over VE CWS stamps; interior undecoratedmeasurement: neck thickness7.7 mm	
	142	neck sherd	weight: 4.1 grSM exterior and interior surfacesdecoration: exterior-LO plats of RO CWS stamps [neck-?] superimposed with CP [neck]; interiorundecorated with superimposed BO [neck]measurement: neck thickness8.0 mm	
·	143	shoulder sherd	weight: 2.1 grSM exterior and interior surfacesdecoration: exteriorrows of HO CWS stamps; interiorundecoratedmeasurement: shoulder thickness-6.6 mm	
	144	2 body sherds	weight: 12.3 grCM exterior and SM intenor surfaces	
	145	4 body sherds	weight: 19.1 gr SC exterior and SM interior surfaces	
	146	fragmentary sherds	weight: 186.4 gr CM, SC and SM surfaces; some with CWS stamps	
	147	shoulder sherd .	weight: 3.7 grSM exterior and interior surfacesdecoration: exteriorbands of short RO CWS stamps; interiorundecoratedmeasurement: shoulder thickness7.9 mm	
486-224	148	fragmentary rim sherd	weight: 3.1 grSM exterior and sloughed interior surfaces; out-flaring rim with flat lipdetails: decoration: exterior2 bands of short VE CWS stamps [upper rim-lower neck] over at least 3 rows of HO CWS stamps [upper shoulder-?]; interiorband of short RO CWS stamps [upper rim] over undecorated zone [neck-?]; lipCC CWS stampsmeasurements: lip thickness4.4 mm; neck thickness4.5 mm	
	149	neck sherd	weight: 3.5 grSM exterior and interior surfacesdecoration: exteriorat least 1 row of HO CWS stamps; interiorundecoratedmeasurement: neck thickness4.8 mm	

Provenience	Cat #	Nature of Specimen	Description of Specimen	Comments
486-224 (continued)	150	neck-shoulder sherd	weight: 12.3 grSM exterior and interior surfacesdecoration: exteriorat least 4 rows of HO CWS stamps over at least 3 rows of RO CWS stamps bordering open triangular zone; interiorundecoratedmeasurements: neck thickness4.7 mm; shoulder thickness5.6 mm	
	151	4 body sherds	weight: 21.7 grSC exterior and SM interior surfaces	
	152	body sherd	weight: 6.2 grSM exterior and interior surfaces	
	153	fragmentary sherds	weight: 48.3 gr SC and SM surfaces; many with CWS stamps	
487-221	154	2 body sherds	weight: 6.9 gr CM exterior and SM interior surfaces	
	155	8 body sherds	-weight: 40.0 gr -SC exterior and SM interior surfaces	
	156	body sherd	-weight: 8.5 gr -SM exterior and interior surfaces	
	157	fragmentary sherds	-weight: 123.6 gr -CM, SC and SM surfaces	
487-222	158	neck sherd	-weight: 13.5 gr -SM exterior and interior surfaces, but traces of interior combing -decoration: exterior-lines of HO CWS stamps [?-lower neck] superimposed with BO [neck], over HO plats of HO CWS stamps [upper shoulder-?]; interior: basal portion of band of RO CWS stamps [?-neck] superimposed with CP [neck] -measurement: neck thickness-10.6 mm	
	159	neck-shoulder sherd	weight: 5.0 grSM exterior and interior surfacesdecoration: exteriortightty spaced RO plats of short LO CWS stamps; interior undecoratedmeasurements: neck thickness5.8 mm; shoulder thickness7.5 mm	
	160	shoulder sherd	-weight: 3.5 gr -SM [decorative zone] over CM [body] exterior and SM interior surfaces -decoration: exterior-basal portion of band of RO CWS stamps, over undecorated zone [body]; interior-undecorated -measurement: shoulder thickness-7.7 mm	
	161	shoulder sherd	-weight: 3.8 gr -SM exterior and sloughed interior surfaces -decoration: exterior-RO plats of LO CWS stamps; interior- undetermined -measurement: shoulder thickness-7.3 mm	
	162	shoulder sherd	-weight: 6.4 gr -SM [decorative zone] over CM [body] exterior and sloughed interior surfaces -decoration: exterior-CWS rocker-stamps, over undecorated zone [body]; interior-undetermined -measurement: shoulder thickness8.1 mm	
	163	shoulder sherd	-weight: 14.6 gr -SM [decorative zone] over SC [body] exterior and sloughed interior surfaces -decoration: exterior-rows of short LO CWS stamps, over undecorated zone [body]; interior-undetermined -measurement: shoulder thickness-9.6 mm	

Provenience	Cat#	Nature of Specimen	Description of Specimen	Comments
487-222 (continued)	164	shoulder sherd	-weight: 5.0 gr -SM exterior and interior surfaces -decoration: exterior-CWS stamps, over undecorated zone; interior- undecor-ated -measurement: shoulder thickness-7.5	
	165	shoulder sherd	weight: 5.5 grSM exterior and interior surfacesdecoration: exterior-RO plats of LO CWS stamps; interior- undecoratedmeasurement: shoulder thickness-7.7 mm	
	166	body sherd	weight: 6.2 gr CM exterior and SM interior surfaces	
	167	2 body sherds	weight: 20.0 gr CM exterior and SM interior surfaces	
	168	2 body sherds	-weight: 13.3 gr -SC exterior and SM interior surfaces	
	169	fragmentary sherds	weight: 87.8 gr	
487-223	170	neck sherd	weight: 8.2 grSM exterior and interior surfacesdecoration: exterior-rows of HO CWS stamps [neck-?] superimposed with CP [neck]; interior-undecorated zone [neck-?] superimposed with BO [neck]measurement: neck thickness-8.3 mm	
	171	shoulder sherd	weight: 8.3 grSM exterior and interior surfacesdecoration: exteriorrows of HO CWS stamps; interiorundecoratedmeasurement: shoulder thickness-6.2 mm	
	172	body sherd	-weight: 4.2 grCM exterior and SC interior surfacesmeasurement: body thickness-6.5 mm	
	173	body sherd	weight: 15.0 mmSC exterior and SM interior surfaces	
	174	4 body sherds	weight: 12.5 gr CM exterior and SM interior surfaces	
	175	fragmentary sherds	weight: 71.3 gr	
487-224	176	neck sherd	-weight: 2.5 gr -SM exterior and sloughed interior surfaces -decoration: exterior-rows of HO CWS stamps; interior-undetermined -measurements: n/a	
	177	neck sherd	-weight: 3.8 gr -SM exterior and interior surfaces -decoration: exterior-basal portion of band of RO CWS stamps [?-neck], over several rows of HO CWS stamps [neck-?] superimposed with CP [neck]; interior-undecorated except for BO -measurement: neck thickness-9.3 mm	
	178	neck sherd	 -weight: 2.3 gr -SM exterior and interior surfaces -decoration: exterior-opposed (LO/HO) CWS stamps; interior- undecorated -measurement: neck thickness-7.7 mm 	

Provenience	Cat#	Nature of Specimen	Description of Specimen	Comments
487-224 (continued)	179	shoulder sherd	-weight: 3.7 gr -CM exterior and sloughed surfaces -decoration: exterior-plats of RO CWS stamps; interior-undetermined -measurement: ri/a	
	180	3 body sherds	weight: 11.4 grSC exterior and SM interior surfaces	
	181	fragmentary sherds	-weight: 107.2 gr -SC exterior and SM interior surfaces	
488-220	182	neck-shoulder sherd	-weight: 6.2 gr -SM exterior and SM interior surfaces -decoration: exterior-rows of HO CWS stamps; interior-faint unknown (CWS stamps?) stamps -measurement: shoulder thickness-6.3 mm	
	183	shoulder sherd	-weight: 2.2 gr -SM exterior and sloughed interior surfaces -decoration: exterior-undecorated zone [?-upper rim], over rows of HO CWS stamps [neck-?] with superimposed CP [neck]; interior- undetermined but superimposed with BO [neck] -measurements: n/a	
	184	shoulder sherd	-weight: 5.4 gr -SM exterior and interior surfaces -decoration: exterior-rows of HO CWS stamps; interior-undecorated -measurement: shoulder thickness7.2 mm	
	185	shoulder sherd	-weight: 3.5 gr -SM exterior and interior surfaces -decoration: exterior-rows of HO CWS stamps; interior-undecorated -measurement: shoulder thickness-5.9 mm	
	186	shoulder sherd	-weight: 6.4 gr -SM exterior and interior surfaces -decoration: exterior-plats of LO CWS stamps; interior-undecorated -measurement: shoulder thickness-7.4 mm	
	187	fragmentary rim sherd	-weight: 2.9 gr -details: SM exterior and lip, and CM interior surfaces; ? rim with flat lip -decoration: exterior-single band of RO CWS stamps [upper rim], over undecorated zone [neck-?]; interior-partial band of RO CWS stamps [upper rim-?]; lip-RO CWS stamps -measurement: lip thickness-8.2 mm	
	188	shoulder sherd	-weight: 3.4 gr -SM [decorative zone] over CM [body] exterior and SM interior surfaces -decoration: exterior-basal portion of band of RO CWS stamps, over undecorated zone [body]; interior- undecorated -measurement: shoulder thickness- 9.7 mm	
	189	3 body sherds	-weight: 16.3 gr -CM exterior and SM interior surfaces	
	190	2 body sherds	weight: 14.0 gr SC exterior and SM interior surfaces	
	191	body sherd	-weight: 5.5 gr -SM exterior and interior surfaces	
	192	fragmentary sherds	-weight: 148.7 gr -SC and CM surfaces; many with CWS stamps	

Provenience	Cat#	Nature of Specimen	Description of Specimen	Comments
488-221	193	fragmentary rim sherd	-weight: 3.3 gr -details: SM exterior, interior and lip surfaces; ? rim with flat lip -decoration: exterior-band of RO CWS stamps [upper rim], over rows of HO CWS stamps [neck-?] superimposed with CP [neck]; interior- band of RO CWS stamps [upper rim], over undecorated zone [neck-?] superimposed with BO [neck]; lip-RO CWS stamps -measurements: lip thickness-6.1 mm; neck thickness-5.7 mm	
	194	shoulder sherd	-weight: 6.8 gr -SM [decorative zone] over CM [body]exterior and SM interior surfaces -decoration: exterior-rows of HO CWS stamps, over undecorated zone [body]; interior-undecorated -measurements: neck thickness-8.0 mm; shoulder thickness-8.5 mm	
	195	shoulder sherd	-weight: 4.6 gr -SM [decorative zone] over SM [body] exterior and SM interior surfaces -decoration: exterior-plats of RO CWS stamps, over undecorated zone [body]; interior-undecorated -measurement: shoulder thickness-7.3 mm	
	196	shoulder sherd	-weight: 3.6 gr -SM exterior and interior surfaces -decoration: exterior-rows of HO CWS stamps; inteiror-undecorated -measurement: shoulder thickness 5.4 mm	
	197	body sherd	-weight: 3.9 gr -CM exterior and S M interior surfaces	
	198	2 body sherds	–weight: 10.7 gr –SC exterior and SM interior surfaces	
	199	fragmentary sherds	weight: 95.5 gr CM, SC and SM surfaces	
488-223	200	fragmentary rim sherd	-weight: 1.9 gr -details: SM exterior and lip, and sloughed interior surfaces; out-flaring rim with slightly rounded lip -decoration: exterior-2 bands of short VE CWS stamps [upper rim-lower neck], over at least 1 row of HO CWS stamps [upper shoulder-?]; interiorpartial band of RO CWS stamps [upper rim-?]; lip-RO CWS stamps -measurement: lip thickness-5.8 mm	
	201	body sherd ·	-weight: 4.8 gr -SC exterior and SM interior surfaces	
	202	2 body sherds	-weight: 8.5 gr -CM exterior and SM interior surfaces	
	203	3 body sherds	-weight: 12.8 gr -SC exterior and SM interior surfaces	
	204	fragmentary sherds	-weight: 135.3 gr -SM, SC and CM surfaces and traces of CWS stamps	
488-222	205	shoulder sherd	-weight: 4.1 grSM exterior and interior surfaces -decoration: exterior-rows of HO CWS stamps; interiorundecoratedmeasurement: shoulder thickness-6.2 mm	
	206	fragmentary sherds	-weight: 150.5 grCM, SC and SM surfaces and traces of CWS stamps	

Provenience	Cat#	Nature of Specimen	Description of Specimen	Comments
488-224	207	rim sherd	weight: 7.0 gr associated with Vessel 2	-see #116
	208	body sherd	-weight: 6.9 gr -CM exterior and CM interior surfaces	
	209	3 body sherds	weight: 20.5 gr SC exterior and SM interior surfaces	
	210	fragmentary sherds	-weight: 107.1 gr -CM, SC and SM surfaces and traces of CWS stamps	
489-174*	211	neck sherd	weight: 4.0 grSM exterior and interior surfacesdecoration: exterior-rows of HO CWS stamps; interior-undecoratedmeasurements: neck thickness-7.3 mm; shoulder thickness-6.8 mm	
489-199*	212	shoulder sherd	-weight: 4.2 gr -SM exterior and interior surfaces -decoration: exterior-rows of HO CWS stamps; interior-undecorated -measurement: shoulder thickness-7.2 mm	
	213	body sherd	weight: 10.0 gr CM exterior and SM interior surfaces	
	214	fragmentary sherds	-weight: 17.3 gr -SC and SM surfaces and traces of CWS stamps	
489-210	215	body sherd	–weight: 5.0 gr –SC exterior and SM interior s urfaces	
	216	fragmentary sherds	-weight: 49.4 gr -CM, SC and SM surfaces and traces of CWS stamps	
489-211	217	fragmentary sherds	weight: 26.8 gr SC and SM surfaces	
489-220	218	shoulder sherd	-weight: 5.7 gr -SC exterior and SM surfaces -decoration: exterior-plats of HO CWS stamps; interior-undecorated -measurement: shoulder thickness-7.5 mm	
	219	shoulder sherd	-weight: 5.5 gr -SC exterior and SM interior surfaces -decoration: exterior-linear stamps; interiorundecorated -measurements: shoulder thickness-8.8 mm	
	220	neck sherd	-weight: 4.9 gr -SC exterior and SM interior surfaces -decoration: exterior-LO plat of RO CWS stamps superimposed with CP; interior-undecorated zone superimposed with BO -measurement: shoulder thickness-7.2 mm	
	221	body sherd	-weight: 4.0 gr CM exterior and SM interior surfaces	
	222	7 body sherds	-weight: 45.3 gr SC exterior and SM interior surfaces	
	223	body sherd	-weight: 6.1 gr -SM exterior and interior surfaces	

Provenlence	Cat#	Nature of Specimen	Description of Specimen	Comments
489-220 (continued)	224	fragmentary sherds	weight: 246.2 gr CM, SC and SM surfaces and traces of CWS stamps	
489-221	225	fragmentary rim sherd	-weight: 1.7 gr -details: SM exterior and lip, and sloughed interior surfaces; ? rim with flat lip -decoration: exterior-single band of RO CWS stamps [upper rim-?]; interior- undetermined [upper rim-?]; lip-single row of HO CWS stamps -measurement: lip thickness-8.9 mm	
	226	shoulder sherd	-weight: 4.3 gr -SM exterior and interior surfaces -decoration: exterior-rows of HO CWS stamps; interior-undecorated	
	227	body sherd	-weight: 4.9 gr -CM exterior and SM interior surfaces	
	228	3 body sherds	-weight: 26.8 gr SC exterior and SM interior surfaces	
	229	fragmentary sherds	weight: 213.6 gr CM, SC and SM surfaces and traces of CWS stamps	
489-222	230	fragmentary rim sherd	-weight: 2.6 gr -details: SM exterior, interior and lip surfaces; ? rim with flat lip -decoration: exterior-single band of RO CWS stamps [upper rim]; interior- undetermined [upper rim]; lip-faint RO CWS stamps -measurement: lip thickness-7.7 mm	
	231	2 body sherds	-weight: 8.1 gr -CM exterior and SM interior surfaces	
	232	4 body sherds	-weight: 23.4 gr -SC exterior and SM interior surfaces	
	233	fragmentary sherds	–weight: 203.5 gr –CM, SC and SM surfaces and lots of CWS stamps	
489-223	234	fragmentary rim sherd	-weight: 4.0 gr -details: SM exterior and interior and lip surfaces; ? rim with flat lip -decoration: exterior-single band of RO CWS stamps [upper rim] over at least 1 row of HO CWS stamps [neck-?]; interior- single band of RO CWS stamps [upper rim], over undecorated zone [neck-?]; lip-single row of HO CWS stamps -measurements: lip thickness-8.4 mm; neck thickness-8.1 mm	
	235	fragmentary rim sherd	-weight: 3.8 gr -details: SC [decorative zone] over SM [body] exterior, SM interior, and SC lip surfaces; rounded lip -decoration: exterior-undecorated zone [upper rim], over rows of HO CWS stamps [neck-?]; interior-single band of faint RO CWS stamps; lip-undecorated -measurements: lip thickness-6.8 mm; neck thickness-6.6 mm	
	236	neck-shoulder sherd	 -weight: 5.8 gr -SM exterior and interior surfaces -decoration: exterior-at least 1 band of short RO CWS stamps over at least 1 row of HO CWS stamps; interior-undecorated -measurements: neck thickness-6.3 mm; shoulder thickness-7.1 mm 	
	237	shoulder sherd	 -weight: 3.5 gr -SM exterior and interior surfaces -decoration: exterior-CWS stamps; interior- undecorated -measurement: shoulder thickness-7.0 mm 	

Provenience	Cat#	Nature of Specimen	Description of Specimen	Comments
489-223 (continued)	238	body sherd	-weight: 12.5 gr -CM exterior and SM interior surfaces	
	239	3 body sherds	-weight: 12.7 gr -SC exterior and SM interior surfaces	
	240	3 body sherds	-weight: 10.4 gr -SM exterior and interior surfaces	
	241	fragmentary sherds	-weight: 131.4 gr -CM, SC and SM surfaces; lots of CWS stamps	
489-224	242	fragmentary rim sherd	-weight: 2.1 gr -details: SC exterior and lip, SM interior surfaces; rounded lip -decoration: exterior-undecorated zone [upper rim], over undetermined zone [neck-?] superimposed with CP [neck]; interior-single band of RO CWS stamps [upper rim], over undecorated zone [neck-?]; lip- undecorated -measurement: lip thickness-6.8 mm	
·	243	neck sherd	-weight: 4.0 gr -SM exterior and interior surfaces -decoration: exterior-plats of LO CWS stamps superimposed with CP [neck]; interior-undecorated zone superimposed with BO [neck] -measurement: neck thickness-9.5 mm	
	244	neck sherd	-weight: 4.6 gr -SM exterior and interior surfaces -decoration: exterior-at least 2 bands of short RO CWS stamps superimposed with CP; interior-undecorated zone superimposed with BO -measurement: neck thickness-7.8 mm	
	245	shoulder sherd	weight: 4.0 gr -SM exterior and interior surfaces -decoration: exterior-rows of RO CWS stamps; interiorundecorated -measurement: shoulder thickness-7.8 mm	
	246	neck-shoulder sherd	-weight: 4.4 gr -SM exterior and interior surfaces -decoration: exterior-rows of HO CWS stamps over rows of RO CWS stamps; interior-undecorated -measurements: neck thickness-6.9 mm; shoulder thickness-7.6 mm	
	247	shoulder sherd .	-weight: 5.9 gr -SC exterior and SM interior surfaces -decoration: exterior-row of CWS stamps; interior- undecorated -measurement: shoulder thickness-8.5 mm	
	248	2 body sherds	–weight: 13.8 gr –CM exterior and SM interior surfaces	
	249	2 body sherds	-weight: 10.8 gr -SC exterior and SM interior surfaces	
	250	2 body sherds	weight: 10.9 gr SM exterior and interior surfaces	
	251	fragmentary sherds	-weight: 105.0 gr -CM, SC and SM surfaces; traces of CWS stamps	
490-155*	252	fragmentary sherds	-weight: 3.8 gr -CM and SM surfaces	

Provenience	Cat#	Nature of Specimen	Description of Specimen	Comments
490-190*	253	body sherd	weight: 3.5 gr SM exterior and interior surfaces	
	254	fragmentary sherd	–weight: 2.0 gr –sloughed exterior and SM interior surfaces	
490-210*	255	2 rim sherds	–weight: 15.0 gr –joins to vessel 3	-see #692
	256	shoulder sherd	-weight: 9.1 gr -SM [decorative zone] over SC [body] exterior and SM interior surfaces -decoration: exterior-plats of short RO CWS stamps, over undecorated zone [body]; interior-undecorated -measurements: shoulder thickness-n/a; body thickness-7.1 mm	
	257	3 body sherds	–weight: 22.8 gr –CM exterior and SM interior surfaces	
	258	2 body sherds	-weight: 18.5 gr -SC exterior and SM interior surfaces	
	259	fragmentary sherds	-weight: 65.0 gr -CM, SC and SM surfaces; traces of CWS stamps	
490-211	260	neck sherd	weight: 4.1 grSM exterior and interior surfacesdecoration: exteriorrows of HO CWS stamps superimposed with CP over plats of short RO CWS stamps; interior undecoratedmeasurements: upper rim thickness-8.5; neck thickness-7.5 mm	
	261	body sherd	-weight: 7.3 gr -SC exterior and SM interior surfaces	
	262	fragmentary sherds	-weight: 27.2 gr -CM, SC and SM surfaces; traces of CWS stamps and dragged punctate	
490-215*	263	fragmentary rim sherd	weight: 7.5 grdetails: SM extenor and lip, sloughed interior surfaces; ? rim with flat lipdecoration: exteriorsingle band of VE CWS stamps [upper rim], over undecorated zone [neck-?]; interiorundetermined [upper rim-?]; lipRO CWS stampsmeasurement: lip thickness8.3 mm	
•	264	fragmentary rim sherd	-weight: 3.2 gr -details: SM exterior, interior and lip surfaces; ? rim with flat lip -decoration: exterior-single band of RO CWS stamps, over at least 2 rows of HO CWS stamps [neck-?] superimposed with CP [neck]; interior-single band of RO CWS stamps [upper rim], over undecorated zone [neck-?]; lip-RO CWS stamps -measurements: lip thickness-4.7 mm; upper rim thickness-7.4 mm	
	265	shoulder sherd	-weight: 3.4 gr -SM exterior and interior surfaces -decoration: exterior-LO plats of RO CWS stamps; interior- undecorated -measurement: shoulder thickness-5.4 mm	
	266	shoulder sherd	weight: 6.2 grSM exterior and interior surfacesdecoration: exteriorrows of HO CWS stamps; interiorundecoratedmeasurement: shoulder thickness7.3 mm	
	267	shoulder sherd	weight: 2.6 gr -SM exterior and interior surfaces -decoration: exterior-rows of HO CWS stamps; interiorundecorated -measurement: shoulder thickness-5.6 mm	

Provenience	Cat #	Nature of Specimen	Description of Specimen	Comments
490-215* (continued)	268	shoulder sherd	-weight: 14.0 gr -SM [decorative zone] over SM [body] exterior and SM interior surfaces -decoration: exterior-LO plats of RO CWS stamps; interior-undecorated -measurement: shoulder thickness-9.8 mm	-
	269	body sherd	-weight: 5.5 gr -CM exterior and SM interior	
	270	body sherd	-weight: 4.2 gr -SC exterior and SM interior surfaces	
	271	fragmentary sherds	-weight: 76.5 gr -CM, SC and SM surfaces; lots of CWS stamps	
490-220*	272	fragmentary rim sherd	-weight: 6.3 gr -details: SM exterior, interior and lip surfaces; ? nm with flat lip -decoration: exterior-undecorated zone [upper nm] superimposed with CP [neck]; interior-single band of RO CWS stamps [upper rim], over undecorated zone [neck-?] super-imposed with BO [neck]; lip-LO CWS stamps -measurement: lip thickness-8.6 mm	
	273	fragmentary rim sherd	weight: 2.5 grdetails: SM exterior and lip, SC interior surfaces; ? rim with rounded, slightly beveled lip with incipient pointed castellationdecoration: exterior, interior & lip-undecoratedmeasurement: lip thickness8.9 mm	
	274	neck sherd	weight: 5.7 grSM exterior and interior surfacesdecoration: exteriorrows of HO CWS stamps superimposed with CP; interior undecorated zone with superimposed BOmeasurement: neck thickness-7.8 mm	
	275	neck s herd	-weight: 7.2 gr -SM exterior and sloughed interior surfaces -decoration: exterior-rows of HO CWS stamps superimposed with circular drill-hole; interior-undecorated -measurement: reck thickness-8.1 mm	
	276	neck-shoulder sherd	-weight: 11.5 gr -SM exterior and interior surfaces -decoration: exterior-rows of HO CWS stamps; interiorundecorated -measurements: neck thickness-7.0 mm; shoulder thickness-8.6 mm	
	277	neck sherd	-weight: 6.4 gr -SM exterior and interior surfaces -decoration: exterior-partial band of CC CWS stamps [?-upper rim] superimposed with CP [neck]; interior-undecorated zone superimposed with BO [neck] -measurement: neck thickness-11.1 mm	
	278	shoulder sherd	-weight: 4.0 gr -SM exterior and interior surfaces -decoration: exterior-rows of HO CWS stamps; interiorundecorated -measurement: neck thickness-5.2 mm	
	279	shoulder sherd	-weight: 3.7 gr -SM exterior and interior surfaces -decoration: exterior-rows of HO CWS stamps; interiorundecorated -measurement: neck thickness-6.4 mm	

Provenience	Cat#	Nature of Specimen	Description of Specimen	Comments
490-220* (continued)	280	shoulder sherd	-weight: 5.0 gr -WI and SM exterior [decorative zone] over SC [body] and SM interior surfaces -decoration: exterior-LO plats of RO CWS stamps, over undecorated zone [body]; interior-undecorated -measurement: neck thickness-8.0 mm	
	281	4 body sherds	-weight: 22.8 gr CM exterior and SM interior surfaces	
	282	10 body sherds (several joined)	-weight: 80.8 gr -SM exterior and SM interior surfaces	
	283	fragmentary sherds	-weight: 252.9 gr CM, SC and SM surfaces; many with CWS stamps	
	284	miscellaneous clay object	-weight: 1.5 gr -see descriptions of miscellaneous ceramic objects	
490-221	285	fragmentary rim sherd	-weight: 6.9 gr -details: SM exterior, interior and lip surfaces; ? rim with flat lip -decoration: exterior-single band of RO CWS stamps superimposed with LO gash [upper rim], over CP [neck]; interior- RO CWS stamps; lip-single HO CWS stamps -measurements: lip thickness-8.3 mm; upper rim thickness-11.1 mm	
	286	neck sherd	weight: 2.6 grSM exterior and interior surfacesdecoration: exterior-HO CWS stamps superimposed with CP; interior- undecorated zone with superimposed BOmeasurement: neck thickness-4.8 mm	
	287	shoulder sherd	weight: 5.0 gr -SM [decorative zone] over SC [body] exterior and SM interior surfaces -decoration: exterior-LO plats of HO CWS stamps separated by LO rows of CWS stamps; interior-fingernail punctatesmeasurement: shoulder thickness-9.3 mm	
	288	shoulder sherd	-weight: 3.7 gr -SM exterior and interior surfaces -decoration: exterior-rows of HO CWS stamps; interior-undecorated -measurement: shoulder thickness-4.5 mm	
	289	shoulder sherd	-weight: 6.3 grSM exterior and interior surfaces -decoration: exterior-RO plats of LO CWS stamps; interior- undecoratedmeasurement: shoulder thickness-6.4 mm	
	290	shoulder sherd	-weight: 6.5 gr -SM [decorative zone] over SC [body] exterior and SM interior surfaces -decoration: exterior-LO plats of RO CWS stamps, over undecorated zone; interior-undecorated -measurement: shoulder thickness-7.1 mm	
	291	shoulder sherd	-weight: 3.7 gr -SM exterior and interior surfaces -decoration: exterior-rows of HO CWS stamps; interiorundecorated -measurement: shoulder thickness-5.2 mm	
	292	4 body sherds	-weight: 27.4 gr CM exterior and SM interior surfaces	
	293	9 body sherds (several are joined)	-weight: 103.1 grSC exterior and SM interior surfaces	

Provenience	Cat#	Nature of Specimen	Description of Specimen	Comments
490-221 (continued)	294	basal sherd (2 joined sherds)	-weight: 97.7 gr -SC exterior and SM interior surfaces; semi-conical base -measurement: max. base thickness-20.0 mm	
	295	fragmentary sherds	-weight: 249.1 gr -CM, SC and SM surfaces; lots of CWS stamps	
490-222	296	fragmentary rim sherd	-weight: 7.7 gr -details: SM exterior and lip, sloughed interior surfaces; out-flaring rim with flat lip with beveled interior -decoration: exterior-single band of short RO CWS stamps [upper rim], over rows of HO CWS stamps [neck-?] super-imposed with CP [neck]; interiorundetermined [upper rim-?]; lip-single HO CWS stamps -measurements: lip thickness-9.9 mm; upper rim thickness-7.8 mm; neck thickness-8.1 mm	
	297	fragmentary rim sherd	-weight: 3.7 gr -details: SM exterior and interior surfaces; ? rim with round lip -decoration: exterior-single band of VE CWS stamps [upper rim], over undeter- mined zone [neck-?] superimposed with CP [neck]; interior- single band of LO CWS stamps [upper rim], over undecorated zone superimposed with BO [neck]; lip-LO CWS stamps -measurement: lip thickness-6.5 mm; neck thickness-5.9 mm	
	298	neck-shoulder sherd	weight: 5.6 grSM exterior and interior surfacesdecoration: exteriorrows of HO CWS stamps; interiorundecoratedmeasurement: shoulder thickness-7.7 mm	
	299	shoulder sherd	weight: 7.5 grCM exterior and SM interior surfacesdecoration: exteriorLO plats of RO CWS stamps; interior undecoratedmeasurement: shoulder thickness7.2 mm	
	300	shoulder sherd	-weight: 5.8 gr -SC [decorative zone] over SC [body] extenor and CM interior surfaces -decoration: exterior-RO plats of LO CWS stamps; interior-undecorated -measurement: shoulder thickness-8.3 mm	
	301	body sherd	-weight: 4.1 gr -SM exterior and interior surfaces -decoration: exterior-undecorated except for a short incised line; interior-undecorated	
	302	2 body sherds	weight: 12.8 gr CM exterior and SM interior surfaces	
	303	11 body sherds	-weight: 121.4 gr -SC exterior and SM interior surfaces	
	304	fragmentary sherds	-weight: 430.8 gr -CM, SC and SM surfaces; lots of CWS stamps	
	305	pipe fragment	-weight: 1.6 gr portion of an undecorated bowl	
490-223	306	neck sherd	-weight: 5.3 gr -SM exterior and interior surfaces -decoration: exterior-rows of HO CWS stamps superimposed with CP; interior-undecorated zone superimposed with BO -measurement: neck thickness-6.7 mm	

Provenience	Cat#	Nature of Specimen	Description of Specimen	Comments
490-223 (continued)	307	neck-shoulder sherd	-weight: 8.2 gr -SM exterior and interior surfaces -decoration: exterior-RO plats of LO CWS stamps; interiorundecorated -measurements: neck thickness-6.1 mm shoulder thickness-7.2 mm	
	308	body sherd	-weight: 10.2 gr -CM exterior and sloughed interior surface	
	309	2 body sherds	-weight: 9.7 gr -SC exterior and SM interior surfaces	
	310	3 body sherds	-weight: 23.2 gr -SM exterior and interior surfaces	
	311	fragmentary sherds	-weight: 235.2 gr -CM, SC and SM surfaces; lots of CWS stamps	
490-224	312	fragmentary rim sherd	-weight: 4.3 gr -details: SM exterior, interior and lip surfaces; ? rim with flat lip -decoration: exterior-at least 2 bands of VE CWS stamps [upper rim], over undetermined zone [neck-?]; interior-single band of RO CWS stamps [upper rim] over undetermined zone [neck-?]; lip-RO CWS stamps -measurement: lip thickness-7.2 mm	
	313	2 fragmentary rim sherds	-weight: 7.0 gr -details: SC exterior, interior and lip surfaces; ? rim with flat lip -decoration: exterior-single band of RO CWS stamps [upper rim], over undecorated zone [neck-?]; interior-one band of RO CWS stamps [upper rim], over undecorated zone [neck-?]; lip-short VE CWS stamps -measurement: lip thickness-7.7 mm	
	314	neck sherd	-weight: 3.7 gr -SC exterior and SM interior surfaces -decoration: exterior-undecorated zone superimposed with CP; interior-partial band of RO CWS stamps superimposed with BO -measurement: neck thickness-6.9 mm	
	315	4 body sherds	-weight: 34.2 gr -SC exterior and SM interior surfaces	
	316	fragmentary sherds	–weight: 151.8 gr –CM, SC and SM surfaces; evidence of CWS stamps	
490 -2 29*	317	neck sherd	-weight: 4.5 gr -SM exterior and interior surfaces -decoration: exterior-rows of HO CWS stamps; interior-undecorated -measurement: neck thickness-7.3 mm	
	318	2 body sherds	-weight: 6.8 gr -CM exterior and SM interior surfaces	
	319	7 body sherds	–weight: 57.7 gr –SC exterior and SM interior surfaces	
	320	body sherd	weight: 10.5 gr SM exterior and interior surfaces	
	321	fragmentary sherds	-weight: 124.8 gr -CM, SC and SM surfaces; CWS stamps present; 1 coil break observed	
	1232	pipe fragment	-weight: 1.5 gr -pipe bowl fragment; see pipe descriptions	

Provenience	Cat #	Nature of Specimen	Description of Specimen	Comments
490 - 240*	322	body sherd	-weight: 3.7 gr -CM exterior and SM interior surfaces	
	323	2 body sherds	-weight: 18.7 gr -SC exterior and SM interior surfaces	
	324	fragmentary sherds	weight: 75.0 gr SC and SM surfaces	
490-249*	325	body sherd	weight: 4.5 gr CM exterior and SM interior	
	326	fragmentary sherds	-weight: 23.0 gr -CM, SC and SM surfaces	
490-252*	327	fragmentary rim sherd	-weight: 3.1 gr -details: SM exterior, interior, and lip surfaces; ? rim with round lip -decoration: exterior-single band of RO cord-impressed stamps [upper rim], over undecorated zone [neck-?]; interior-band of CC CWS stamps [upper rim], over undecorated zone [neck-?]; lip-CC CWS stamps -measurements: lip thickness-6.2 mm; neck thickness-6.6 mm	
	328	fragmentary rim sherd	-weight: 1.5 gr -details: SM exterior and lip, sloughed interior surfaces; ? rim with flat lip -decoration: exterior-partial band of CC CWS stamps [upper rim-?]; interior- undetermined [upper rim-?]; lip faint RO CWS stamps -measurement: lip thickness-8.6 mm	
	329	3 body sherds	weight: 22.0 gr CM exterior and SM interior surfaces; 1 has a coil break	
	330	body sherd	weight: 6.6 gr CM exterior and interior surfaces	
	331	fragmentary sherds	-weight: 50.0 gr CM, SC and SM surfaces; traces of CWS stamps	
491-210	332	fragmeritary rim sherd	-weight: 5.0 gr -details: SM interior and lip, sloughed exterior surfaces; ? rim with flat lip -decoration: exterior-undetermined [upper rim-?]; interiorpartial band of VE CWS stamps [upper rim-?]; lip-VE CWS stamps -measurement: lip thickness-9.8 mm	
	333	2 body sherds	-weight: 9.8 gr SC exterior and SM interior surfaces	
	334	fragmentary sherds	-weight: 45.2 gr -CM, SC and SM surfaces; evidence of CWS stamps and CP	
491-211	335	2 body sherds	-weight: 12.3 gr -SC exterior and SM interior surfaces	
	336	body sherd	-weight: 5.0 gr -SM exterior and interior surfaces	
	337	fragmentary sherds	weight: 40.0 gr CM, SC and SM surfaces; evidence of CWS stamps	
491-221	338	fragmentary rim sherd	-weight: 2.7 gr -details: SM exterior, interior and lip surfaces; ? rim with flat lip -decoration: exterior-partial band of RO CWS stamps [upper rim-?]; interior-band of short LO CWS stamps [upper rim-?]; lip-VE CWS stamps -measurement: lip thickness-9.7 mm	

Provenience	Cat #	Nature of Specimen	Description of Specimen	Comments
	339	fragmentary rim sherd	-weight: 2.7 gr -details: SM exterior, sloughed interior and CM lip surfaces; out-flaring rim with round lip -decoration: exterior-single band of CC CWS stamps [upper rim], over rows of HO CWS stamps [neck-?] superimposed with CP [neck]; interior-undetermined [upper rim-?]; lip-CM -measurement: lip thickness-6.8 mm	
	340	neck sherd	-weight: 3.5 gr -SM exterior and sloughed interior surfaces -decoration: exterior-basal portion of band short RO CWS stamps [?-upper rim] superimposed with CP [neck], over HO CWS stamps [neck-?]; interior- sloughed -measurement: neck thickness-9.3 mm	
	341	shoulder sherd	-weight: 4.2 gr -SM [decorative zone] over CM [body] exterior and SM interior surfaces -decoration: exterior-at least 2 rows of HO CWS stamps over band of short RO CWS stamps, over undecorated zone [body]; interior- undecorated -measurement: shoulder thickness-7.4 mm	
	342	shoulder sherd	-weight: 5.4 gr -SM exterior and interior surfaces -decoration: exterior-rows of HO CWS stamps; interiorundecorated -measurement: shoulder thickness-8.7 mm	
	343	shoulder sherd	-weight: 7.1 gr -SM exterior and interior surfaces -decoration: exterior-LO plats of HO CWS stamps; interior- undecorated -measurement: shoulder thickness-9.4 mm	
	344	body sherd	-weight: 7.5 gr -CM exterior and SM interior surfaces	
	345	6 body sherds	-weight: 58.0 gr -SC exterior and SM interior surfaces	
	346	basal sherd	-weight: 13.3 gr -SM exterior and interior surfaces; undetermined type	
	347	fragmentary sherds	weight: 208.8 gr CM, SC and SM surfaces; evidence of CWS stamps; 2 coil breaks observed	
491-224	348	fragmentary nm · sherd	-weight: 4.7 gr -details: SM exterior, interior and lip surfaces; ? rim with flat lip -decoration: exterior-single band of RO CWS stamps [upper rim] superimposed with CP [neck], over undetermined [neck-?]; interior- single band of VE CWS stamps [upper rim], over undecorated zone [neck-?]; lip-LO CWS stamps -measurement: lip thickness-8.3 mm; upper rim thickness-8.6 mm	
	349	fragmentary rim sherd	-weight: 1.4 gr -details: SM exterior and lip, sloughed interior surfaces; ? rim with flat lip -decoration: exterior-single band of RO CWS stamps [upper rim-lower neck]; interior-parital band of VE CWS stamps [upper rim-?]; lip-VE CWS stamps -measurement: lip thickness-7.2 mm	
491-224 (continued)	350	fragmentary rim sherd	-weight: 2.7 gr -details: SM exterior, interior and lip surfaces; ? rim with flat lip -decoration: exterior-partial band of RO CWS stamps [upper rim-?]; interior-partial band of faint, short VE CWS stamps [upper rim-?]; lip- RO CWS stamps -measurement: lip thickness-9.6 mm	

Provenience	Cat#	Nature of Specimen	Description of Specimen	Comments
	351	neck-shoulder sherd	-weight: 5.0 grSM exterior and interior surfacesdecoration: exterior-several rows of HO CWS stamps; interior- undecoratedmeasurement: shoulder thickness-8.4 mm	
	352	shoulder sherd	-weight: 6.3 grSM exterior and interior surfacesdecoration: exteriorat least 2 rows of HO CWS stamps over rows of LO CWS stamps; interiorundecoratedmeasurement: shoulder thickness-7.4 mm	
	353	shoulder sherd	-weight: 1.4 grSC exterior and SM interior surfaces -decoration: exteriorOP (RO/LO) CWS stamps; interior-undecoratedmeasurement: shoulder thickness-3.3 mm	
	354	shoulder sherd	-weight: 5.0 gr -SC exterior and SM interior surfaces -decoration: exterior-at least 2 rows of HO CWS stamps; interior- undecorated -measurement: shoulder thickness-6.5 mm	
	355	shoulder sherd	-weight: 4.5 gr -SM [decorative zone] over SC [body] exterior and SM interior surfaces -decoration: exterior-basal portion of band of RO CWS stamps over undecorated zone [body]; interior-undecorated -measurement: shoulder thickness-7.7 mm	
	356	shoulder sherd	weight: 11.0 grSM exterior and interior surfacesdecoration: exteriorRO plats of LO CWS stamps; interior undecoratedmeasurement: shoulder thickness9.6 mm	
	357	body sherd	-weight: 7.3 gr -CM exterior and SM interior surfaces	
	358	5 body sherds	-weight: 39.1 gr -SC exterior and SM interior surfaces	
	359	body sherd	-weight: 4.6 gr -SM exterior and interior surfaces	
	360	fragmentary sherds	weight: 221.8 gr CM, SC and SM surfaces; lots of CWS stamps; 2 coil breaks observed	
492-220	361	neck sherd	weight: 5.0 grSM exterior and interior surfacesdecoration: exterior-rows of HO CWS stamps [?-neck] supermposed with CP [neck], over OP(HO/RO) CWS stamps [upper shoulder-?]; interior-undecoratedmeasurement: neck thickness-7.7 mm	
	362	2 body sherds	-weight: 7.7 gr -CM exterior and SM interior surfaces	
	363	body sherd	-weight: 6.4 gr -SC exterior and SM interior surfaces	
492-220 (continued)	364	fragmentary sherds	-weight: 100.0 gr CM, SC and SM surfaces; some CWS stamps	
492-221	365	neck sherd	weight: 3.1 grSM exterior and interior surfacesdecoration: exterior-partial zone of OP (RO/LO) CWS stamps; interior- undecoratedmeasurement: neck thickness-5.5 mm	

Provenience	Cat #	Nature of Specimen	Description of Specimen	Comments
	366	shoulder sherd	-weight: 4.3 gr -SM exterior and interior surfaces -decoration: exterior-RO plats of LO CWS stamps; interior- undecorated -measurement: shoulder thickness-8.1 mm	
	367	3 body sherds	-weight: 32.5 gr -CM exterior and SM interior surfaces	
	368	6 body sherds	-weight: 47.8 gr -SC exterior and SM interior surfaces	
	369	fragmentary sherds	-weight: 138.8 gr -CM, SC and SM surfaces; lots of CWS stamps; 2 coil breaks	
492-223	370	rim sherd (2 joined)	-weight: 6.9 gr -see vessel descriptions	-Vessel 4
	371	fragmentary rim sherd	-weight: 1.4 gr -details: SM exterior, interior and lip surfaces; ? nm with flat lip -decoration: exterior-partial band of RO CWS stamps [upper rim-?]; interior-single band of RO CWS stamps [upper rim], over undecorated zone [neck-?]; lip-RO CWS stamps -measurement: lip thickness-6.5 mm; neck thickness-5.3 mm	
	372	neck sherd (2 joined)	-weight: 16.8 gr -SM exterior and WI interior surfaces -decoration: exterior-rows of HO CWS stamps; interiorundecorated -measurement: neck thickness-7.8 mm	
	373	neck-shoulder sherd	-weight: 8.1 gr -SM exterior, but lightly combed interior surfaces -decoration: exterior-at least 2 rows of HO CWS stamps; interior- undecorated -measurements: neck thickness-7.8 mm; shoulder thickness-8.3 mm	
	374	shoulder sherd	-weight: 6.8 gr -SM exterior and interior surfaces -decoration: exterior-at least 1 row of HO CWS stamps over VE plats of HO CWS stamps; interior-undecorated -measurement: shoulder thickness-7.4 mm	
	375	shoulder sherd	weight: 5.5 gr -SM exterior and interior surfaces -decoration: exterior-rows of HO CWS stamps; interiorundecorated -measurement: shoulder thickness-7.9 mm	
	376	neck-shoulder sherd	-weight: 10.8 gr -SM exterior and interior surfaces -decoration: exterior-rows of HO CWS stamps; interiorundecorated -measurements: neck thickness-8.0 mm; shoulder thickness-9.3 mm	
	377	shoulder sherd	-weight: 5.6 gr -SC exterior and CM interior surfaces -decoration: exterior-LO plats of RO CWS stamps; interior- undecorated -measurement: shoulder thickness-6.9 mm	
492-223 (continued)	378	3 body sherds	–weight: 27.5 gr –CM exterior and SM interior surfaces	
	379	5 body sherds	-weight: 66.5 gr -SC exterior and SM interior surfaces	
	380	2 body sherds	-weight: 24.7 gr -SM exterior and interior surfaces	

Provenience	Cat #	Nature of Specimen	Description of Specimen	Comments
	381	fragmentary sherds	weight: 147.2 grCM, SC and SM surfaces; lots of CWS stamps and traces of CP; 2 coil breaks	
493-220	382	rim sherd	-weight: 2.7 gr -see vessel descriptions	-Vessel 5
	383	shoulder sherd	-weight: 6.5 gr -SM exterior and interior surfaces -decoration: exterior-at least 2 rows of HO CWS stamps; interior- undecorated -measurement: shoulder thickness-9.0 mm	
	384	body sherd	–weight: 5,5 gr –CM exterior and SM interior surfaces	
	385	3 body sherds	-weight: 29.0 gr -SC exterior and SM interior surfaces	
	386	fragmentary sherds	-weight: 145.5 gr -CM, SC and SM surfaces; traces of CWS stamps and CP	
493-221	387	fragmentary rim sherd	-weight: 8.9 gr -details: SM exterior, interior and lip surfaces; ? rim with flat lip and incipient round castellation -decoration: exterior-undecorated zone [upper rim] over RO CWS stamps super-imposed with CP [both neck], over at least one row of HO CWS stamps [upper shoulder-?]; interior-single band of deep RO CWS stamps [upper rim], over band of VE CWS stamps [neck-?] super-imposed with BO [neck]; lip-short, faint HO CWS stamps -measurements: lip thickness-8.3 mm; neck thickness-9.3 mm; upper rim height-13.2 mm	
	388	neck-shoulder sherd	-weight: 7.7 gr -SC exterior and SM interior surfaces -decoration: exterior-partial zone of OP (LO/HO) over band of VE CWS stamps over rows of HO CWS stamps; interior- undecorated -measurements: neck thickness-5.5 mm; shoulder thickness-7.4 mm	
	389	shoulder sherd	-weight: 11.6 gr -SC exterior and SM interior surfaces -decoration: exterior-partial band of VE CWS stamps over rows of HO CWS stamps; interior-undecorated -measurement: shoulder thickness-9.0 mm	-see #388
	390	shoulder sherd	-weight: 7.1 gr -SM exterior and interior surfaces -decoration: exterior-rows of HO CWS stamps; interior-undecorated -measurement: shoulder thickness-8.5 mm	
	391	shoulder sherd	 -weight: 5.9 gr -SM exterior and interior surfaces -decoration: exterior-at least 2 rows of HO CWS stamps; interior undecorated -measurement: shoulder thickness-8.4 mm 	
493-221 (continued)	392	shoulder sherd	-weight: 5.0 gr -SM exterior and interior surfaces -decoration: exterior-at least 2 rows of HO CWS stamps; interior- undecorated -measurement: shoulder thickness-8.6 mm	
	393	4 body sherds	-weight: 59.1 gr -SC exterior and SM interior surfaces	
	394	2 body sherds	-weight: 27.9 gr -SM exterior and interior surfaces	

Provenience	Cat #	Nature of Specimen	Description of Specimen	Comments
	395	fragmentary sherds	-weight: 212.9 gr -CM, SC and SM surfaces; lots of CWS stamps and numerous CP	
493-222	396	2 body sherds	-weight: 11.6 gr -SC exterior and SM interior surfaces	
	397	fragmentary sherds	-weight: 28.2 gr -SC and SM surfaces	
493-223	398	neck sherd (2 joined)	-weight: 12.7 gr -SC exterior and pitted interior surfaces -decoration: exterior-LO plats of short HO CWS stamps; interior- undecorated -measurement: neck thickness-8.7 mm	
	399	shoulder sherd	weight: 7.4 grSM exterior and pitted interior surfacesdecoration: exteriorrows of HO CWS stamps; interiorundecoratedmeasurement: shoulder thickness-7.9 mm	
	400	3 body sherds	–weight: 16.9 gr –CM exterior and SM interior surfaces	
	401	5 body sherds	-weight: 45.7 gr -SC exterior and SM interior surfaces	
	402	body sherd	-weight: 5.9 gr -SM exterior and interior surfaces	
	403	fragmentary sherds	-weight: 214.8 gr CM, SC and SM surfaces; lots of CWS stamp, CP, and several coil breaks	
493-224	404	fragmentary rim sherd	-weight: 7.1 gr -details: SM extenor, intenor and lip surfaces; ? rim with roundlip -decoration: exterior-single band of RO CWS stamps [upper rim], over HO CWS stamps [neck-?] superimposed with CP [neck]; interior-single band of LO CWS stamps [upper rim], over undecorated zone [neck-?] superimposed with BO [neck]; lip-RO CWS stamps superimposed with HO CWS stamps -measurements: lip thickness-8.1 mm; neck thickness-8.2 mm; upper rim height- 15.2 mm	
	405	fragmentary rim sherd .	-weight: 4.5 gr -details: SM exterior, interior and lip surfaces; ? rim with flat lip -decoration: exterior-single band of RO CWS stamps [upper rim], over rows of HO CWS stamps [neck-?] superimposed with CP [neck]; interior-single band of VE CWS stamps [upper rim], over undecorated zone [neck-?] superimposed with BO [neck]; lip-CC CWS stamps -measurements: lip thickness-5.9 mm; neck thickness-8.0 mm; upper rim thickness-10.0 mm	
493-224 (continued)	406	fragmentary rim sherd	-weight: 6.6 gr -details: SM exterior, interior and lip surfaces; vertical rim with flat lip -decoration: exterior-single band of slightly RO CWS stamps [upper rim], over undetermined zone [neck-?] superimposed with CP [neck]; interior-single band of VE CWS stamps [upper rim], over undecorated zone [neck-?] superimposed with BO [neck]; lip-VE CWS stamps -measurements: lip thickness-8.5 mm; neck thickness-9.1 mm; upper rim height- 17.7 mm	

Provenience	Cat #	Nature of Specimen	Description of Specimen	Comments
	407	fragmentary rim sherd	-weight: 1.9 gr -details: SM exterior, interior and lip surfaces; ? rim with flat lip -decoration: exterior-single band of RO CWS stamps [upper rim], over undetermined zone [neck-?]; interior-single band of RO CWS stamps [upper rim], over undecorated zone [neck-?]; lip-RO CWS stamps -measurement: lip thickness-8.0 mm	
	408	neck-shoulder sherd	-weight: 15.2 gr -SM exterior and pitted (CM?) interior surfaces -decoration: exterior-partial band of VE CWS stamps [?-upper rim], over LO plats of RO CWS stamps [neck-?] superimposed with CP [neck]; interior-single band of VE CWS stamps [?-upper rim], over undecorated zone [neck-?] superimposed with BO [neck] -measurements: neck thickness-8.5 mm; shoulder thickness-6.1 mm	
	409	shoulder sherd	weight: 7.5 grSM exterior and interior surfacesdecoration: exteriorLO plats of HO CWS stamps; interior undecoratedmeasurement: shoulder thickness7.6 mm	
	410	3 body sherds	-weight: 52.5 gr -CM exterior and SM interior surfaces	
	411	13 body sherds	weight: 124.3 gr SC exterior and SM interior surfaces	
	412	body sherd	weight: 5.3 gr -SM exterior and interior surfaces	
	413	fragmentary sherds	-weight: 337.8 gr -CM, SC and SM surfaces; lots of CWS stamps and CP; several coil breaks	
	414	pipe fragment	-weight: 2.6 gr -bowl fragment (see pipe descriptions)	
494-220	415	4 body sherds	–weight: 30.5 gr –SC exterior and SM interior surfaces	
	416	basal sherd (2 joined)	-weight: 38.6 gr -SC exterior and WI interior surfaces; probably rounded base -decoration: exterior-traces of CWS stamps; interior-undecorated	
	417	fragmentary sherds	-weight: 69.7 gr -CM, SC and SM surfaces; traces of CWS stamps	
494-221	418	shoulder sherd	-weight: 5.6 gr -SM exterior and interior surfaces -decoration: exterior-rows of HO CWS stamps; interior-undecorated -measurement: shoulder thickness-8.5 mm	
	419	6 body sherds	-weight: 40.5 gr -SC exterior and SM interior surfaces	
494-221 (continued)	420	body sherd	-weight: 11.3 gr -SM exterior and interior surfaces	
	421	fragmentary sherds	-weight: 167.8 gr -CM, SC and SM surfaces; many with CWS stamps	

Provenience	Cat#	Nature of Specimen	Description of Specimen	Comments
494-222	422	fragmentary rim sherd	-weight: 3.2 gr -details: SC exterior and SM interior and lip surfaces; ? rim with round, thickened lip -decoration: exterior-undecorated [upper rim-?]; interior-single band of short RO CWS stamps [upper rim], over undecorated zone [neck-?]; lip-RO CWS stamps -measurement: lip thickness-6.9 mm	
	423	shoulder sherd	-weight: 5.0 gr -SM exterior and interior surfaces -decoration: exterior-row of RO CWS stamps bordering single RO plat of LO CWS stamps; interior-undecorated -measurement: shoulder sherd-8.8 mm	
	424	4 body sherds	weight: 37.2 gr SC exterior and SM interior surfaces	
	425	body sherd	-weight: 5.5 gr -SM exterior and interior surfaces	
	426	basal sherd	weight: 10.5 grSM exterior and interior surfaces; rounded basemeasurement: base thickness-12.6 mm	
	427	fragmentary sherds	weight: 186.0 gr CM, SC and SM surfaces; evidence of CWS stamps, CP, and several coil breaks	
	428	pipe fragment	-weight: 1.2 gr bowl fragment; see pipe descriptions	
494-223	429	fragmentary rim sherd	-weight: 4.1 gr -details: SM exterior, interior and lip surfaces; ? rim with flat lip -decoration: exterior-single band of RO CWS stamps [upper rim], over several rows of faint HO CWS stamps [neck-?] super-imposed with BO [neck]; interior-single band of RO CWS stamps [upper rim], over undecorated zone [neck-?] superimposed with CP [neck]; lip-RO CWS -measurements: lip thickness-8.6 mm; neck thickness-5.8 mm; upper rim height- 13.5 mm	
	430	fragmentary rim sherd	-weight: 2.6 gr -details: CM exterior, and SM interior and lip surfaces; out-flaring rim with slightly round lip; coil break -decoration: exterior-undecorated [upper rim-?]; interiorundecorated [upper rim-?]; lip-RO CWS stamps -measurement: lip thickness-9.4 mm	
	431	fragmentary rim sherd	weight: 4.5 grdetails: SM exterior and lip, and sloughed interior surfaces; ? rim with flat lipdecoration: exterior-single band of RO CWS stamps [upper rim], over at least 1 row of HO CWS stamps [neck-?] superimposed with CP [neck]; interior undeter-mined [upper rim-?]; lip- RO CWS stampsmeasurement: upper rim height-19.1 mm	
	432	shoulder sherd	-weight: 4.9 gr -SM [decorative zone] over SC [body] exterior and SM interior surfaces -decoration: exterior-RO plats of LO CWS stamps, over undecorated zone [body]; interior- undecorated -measurement: shoulder thickness-8.0 mm	
494-223 (continued)	433	body sherd	–weight: 7.3 gr –CM exterior and SM interior surfaces	
	434	3 body sherds	–weight: 18.2 gr –SC exterior and CM interior surfaces	

Provenience	Cat#	Nature of Specimen	Description of Specimen	Comments
	435	7 body sherds	-weight: 44.9 gr -SC exterior and SM interior surfaces	
	436	body sherd	-weight: 7.8 gr -SM exterior and interior surfaces	
	437	basal sherd	weight: 13.5 grSC exterior and SM interior surfaces; semi-conical base	
	438	fragmentary sherds	-weight: 233.2 gr -CM, SC and SM surfaces; CWS stamp and CP noted for numerous fragments	
494-224	439	fragmentary rim sherd	-weight: 3.9 gr -details: SM exterior, interior and lip surfaces; ? rim with round lip -decoration: exterior-single band of RO CWS stamps [upper rim]. over undecorated zone superimposed with CP [both neck] over at least 1 row of HO CWS [upper shoulder-?]; interior-partial band of RO CWS stamps [upper rim-?]; lip-RO CWS stamps -measurements: lip thickness-6.3 mm; upper rim thickness-7.6 mm	
	440	juvenile vessel fragment	-weight: 3.5 gr -SM extenor and lip, and CM interior surfaces; round lip; incipient pointed castellation with folded-over lip at point -decoration: exterior, interior and lipundecorated -measurements: lip thickness-4.9 mm; neck thickness-5.5 mm; upper rim height-7.5 mm	
	441	shoulder sherd	-weight: 11.7 gr -SM extenor and interior surfaces -decoration: exterior-rows of HO CWS; interiorundecorated -measurement: shoulder thickness-9.2 mm	
	442	shoulder sherd	-weight: 7.7 gr -SM exterior and interior surfaces -decoration: exterior-RO plats of LO CWS stamps; interior- undecorated -measurement: shoulder thickness-9.0 mm	
	443	shoulder sherd	-weight: 7.7 gr -CM exterior and sloughed interior surfaces -decoration exterior-plat of CWS stamps; interiorundetermined -measurement: shoulder thickness-n/a	
	444	shoulder sherd •	-weight: 10.0 gr -SM [decorative zone] over CM [body] exterior and SM interior surfaces -decoration: exterior-at least 1 row of HO CWS stamps, over undecorated zone [body]; interior-undecorated -measurement: shoulder thickness-8.3 mm; body thickness-7.0 mm	
	445	shoulder sherd	-weight: 6.5 gr -SM exterior and interior surfaces -decoration: exterior-rows of HO CWS stamps; interior-undecorated -measurement: shoulder thickness-8.3 mm	

Provenience	Cat #	Nature of Specimen	Description of Specimen	Comments
494-224 (continued)	446	shoulder sherd	-weight: 6.6 gr -SM [decorative zone] over SC [body] exterior and SM interior surfaces -decoration: exterior-traces of CWS stamps, over undecorated zone [body]; interior-undecorated -measurement: shoulder thickness-9.3 mm	
	447	body sherd	weight: 4.9 grCM exterior and SM interior surfaces	
	448	4 body sherds	weight: 24.1 gr -SC exterior and CM interior surfaces	
	449	10 body sherds	-weight: 85.0 gr -SC exterior and SM interior surfaces	
	450	2 body sherds	-weight: 11.5 gr -SM exterior and interior surfaces	
	451	fragmentary sherds	-weight: 373.6 gr -CM, SC and SM surfaces; lots of CWS stamps and CP; several coil breaks	
	452	pipe fragment	-weight: 3.9 gr -bowl fragment; see pipe descriptions	
494-229*	453	fragmentary rim sherd	-weight: 7.4 gr -details: SM extenor, interior and lip surfaces; ? rim with round lip -decoration: exterior-single band of RO CWS stamps [upper rim], over undecorated zone [neck] over at least 1 band of RO CWS dragged stamps [lower neck] over at least 1 row of HO CWS stamps [upper shoulder-?]; interior-single band of RO CWS stamps [upper rim], over undecorated zone [neck-?]; lip- undecorated -measurements: lip thickness-6.3 mm; neck thickness-6.4 mm; upper collar height-11.9 mm	
	454	neck sherd	weight: 2.8 gr -SM exterior and interior surfaces -decoration: exterior-undecorated zone [?-upper rim] superimposed with CP [neck], over at least 1 row of HO CWS stamps [upper shoulder-?]; interior-undecorated -measurement: neck thickness-7.1 mm	
	455	shoulder sherd	weight: 7.2 grSM exterior and interior surfacesdecoration: exterior-rows of HO CWS stamps; interior-undecoratedmeasurement: shoulder thickness7.8 mm	
	456	shoulder sherd	-weight: 4.8 gr -SM exterior and interior surfaces -decoration: exterior-rows of HO CWS stamps; interior-undecorated -measurement: shoulder thickness-n/a	
	457	shoulder sherd	weight: 6.3 grSM [decorative zone] over SM [body] exterior and SM interior surfacesdecoration: exteriorRO plats of short HO CWS stamps, over undecorated zone; interiorundecoratedmeasurement: shoulder thickness8.7 mm	
	458	4 body sherds	-weight: 41.1 gr -CM exterior and SM interior surfaces	
	459	12 body sherds	–weight: 136.0 gr –SC exterior and SM interior surfaces	
	460	body sherd	–weight: 9.1 gr –SM exterior and interior surfaces	

Provenience	Cat #	Nature of Specimen	Description of Specimen	Comments
494-229* (continued)	461	fragmentary sherds	-weight: 327.1 gr -various CM, SC and SM surfaces; many have CWS stamps and CP; two coil breaks	
	462	pipe fragment	-weight: 1.9 gr -portion of a pipe stem	
495-220	463	fragmentary rim sherd	-weight: 3.3 gr -details: CM exterior, and SM interior and lip surfaces; ? rim with flat lip -decoration: exterior-undecorated zone [upper rim-neck], over at least 2 rows of HO CWS stamps [lower neck-?] superimposed with CP [lower neck]; interior-single band of RO CWS stamps [upper rim], over undecorated zone [neck-?] superimposed with BO [lower neck]; lip- short RO CWS stamps at exterior lip junction and 1 row of HO CWS stamps -measurement: lip thickness-6.8 mm; neck thickness-6.9 mm; upper collar height- 5.9 mm	
	464	body sherd	-weight: 4.5 gr CM exterior and SM interior surfaces	
	465	body sherd	weight: 7.1 gr SC exterior and CM interior surfaces	
	466	3 body sherds	-weight: 28.6 gr -SC exterior and SM interior surfaces	
	467	fragmentary sherds	-weight: 91.1 gr -CM, SC and SM surfaces; some CWS stamps	
495-221	468	fragmentary nim sherd	weight: 5.9 grdetails: SM exterior, interior and lip surfaces; ? rim with flatdecoration: exterior-single band of CC CWS stamps [upper rim], over at least 1 row of HO CWS stamps [neck-?]; interior- single band of short RO CWS stamps [upper rim], over undecorated zone [neck-?]; lip-widely spaced VE CWS stampsmeasurement: lip thickness-7.5 mm; upper rim thickness-8.5 mm; neck thick- ness-8.6 mm	
	469	body sherd	weight: 5.4 gr CM exterior and SM interior surfaces	
	470	3 body sherds	-weight: 25.7 gr -SC exterior and SM interior surfaces	
:	471	3 body sherds	–weight: 24.9 gr –SM exterior and interior surfaces	
	472	fragmentary sherds	–weight: 148.1 gr –CM, SC and SM surfaces; numerous CWS stamps	
495-222	473	shoulder sherd	-weight: 14.6 gr -SM [decorative zone] over SC [body] exterior and SM interior surfaces -decoration: exterior-rows of HO CWS stamps over a single band of short RO CWS stamps, over undecorated zone [body]; interior- undecorated -measurements: neck thickness-8.7 mm; shoulder thickness-8.5 mm; body thickness-7.4 mm	
	474	shoulder sherd	-weight: 2.7 gr -SM exterior and interior surfaces -decoration: exterior-LO plats of HO CWS stamps; interiorundecorated -measurement: shoulder thickness-5.0 mm	
	475	6 body sherds	-weight: 84.6 gr -SC exterior and SM interior surfaces	

Provenience	Cat#	Nature of Specimen	Description of Specimen	Comment s
495-222 (continued)	476	body sherd	weight: 8.9 gr SM exterior and interior surfaces	
	477	fragmentary sherds	-weight: 139.6 gr -CM, SC and SM surfaces; lots of CWS stamps and CP and BO	
	478	pipe fragment	-weight: 2.3 gr bowl fragment; see pipe descriptions	
495-223	479	fragmentary nim sherd	weight: 2.8 grdetails: SM exterior, interior and lip surfaces; ? rim with flat lipdecoration: exterior-at least 2 bands of short LO CWS stamps [upper rim-?]; interior-single band of RO CWS stamps [upper rim], over undecorated zone [neck-?]; lip-RO CWS stampsmeasurement: lip thickness-10.1 mm	
	480	shoulder sherd	-weight: 5.0 gr -SM exterior and interior surfaces -decoration: exterior-rows of HO CWS superimposed with CP; interior-undecorated zone superimposed with BO -measurement: shoulder thickness-7.5 mm	
	481	shoulder sherd	 -weight: 2.6 gr -SM exterior and interior surfaces -decoration: exterior-LO plats of RO CWS stamps; interiorundecorated -measurement: shoulder thickness-4.8 mm 	
	482	3 body sherds	-weight: 28.1 gr -CM exterior and SM interior surfaces	
	483	2 body sherds	weight: 18.7 gr SC exterior and SM interior surfaces	
	484	fragmentary sherds	-weight: 229.9 gr -CM, SC and SM surfaces; CWS stamps and CP evident on many sherds	
495-224	485	fragmentary rim sherd	weight: 5.3 grdetails: SC exterior and lip, SM interior surfaces; vertical rim with flat thickened lipdecoration: exteriorband of short RO CWS stamps [just below lip], over undecorated zone [neck] over VE CWS stamps [upper shoulder-?] superimposed with CP [upper shoulder]; interiorsingle band of RO CWS stamps [upper rim], over undecorated zone [neck-?] superimposed with BO [neck]; lip single row of HO CWS stampsmeasurements: lip thickness-9.8 mm; neck thickness-7.9 mm; upper rim height- 9.3 mm	
	486	fragmentary rim sherd	-weight: 9.5 gr -details: SM exterior, interior and lip surfaces; vertical rim with flat lip -decoration: exterior-single band of short RO CWS stamps [just below lip], over OP (VE/RO) CWS stamps [neck-?] superimposed with CP [neck]; interior-single band of short RO CWS stamps [just below lip], over undecorated zone [neck-?] super- imposed with BO [neck]; lip- single HO CWS stamps -measurement: lip thickness-10.7 mm; upper rim thickness-9.6 mm; neck thick- ness-10.0 mm	
	487	shoulder sherd	-weight: 10.6 gr -SM exterior and interior surfaces -decoration: exterior-at least 1 HO CWS stamps over LO plats of HO CWS stamps; interior-undecorated -measurement: shoulder thickness-9.4 mm	

Provenience	Cat#	Nature of Specimen	Description of Specimen	Comments
495-224 (continued)	488	7 body sherds	weight: 48.7 gr SC exterior and CM interior surfaces	
	489	7 body sherds	weight: 42.1 gr CM exterior and SM interior surfaces	
	490	12 body sherds	-weight: 99.1 gr -SC exterior and SM interior surfaces	
	491	7 body sherds	weight: 49.5 gr SM exterior and interior surfaces	
	492	fragmentary sherds	-weight: 617.9 gr -CM, SC and SM surfaces; many sherds with CWS stamps and CP; two coil breaks	
	493	pipe fragment	weight: 1.3 gr bowl fragment; see pipe descriptions	
495-229*	494	neck sherd	-weight: 3.2 gr -SM exterior and pitted interior surfaces -decoration: exterior-LO plats of HO CWS stamps superimposed with CP; interior-undecorated zone superimposed with BO -measurement: neck thickness-7.0 mm	
	495	neck sherd	weight: 3.9 grSM exterior and pitted interiordecoration: exteriorLO plats of RO CWS stamps superimposed with CP; interior undecorated zone superimposed with BOmeasurement: neck thickness-7.7 mm	
	496	neck-shoulder sherd	weight: 6.4 grSM exterior and sloughed interior surfacesdecoration: exteriorpartial band of VE CWS stamps over at least 2 bands of RO CWS stamps, interiorundeterminedmeasurement: neck thicknessn/a; shoulder thickness6.2 mm	
	497	shoulder sherd	-weight: 11.7 gr -SC exterior and SM interior surfaces -decoration: exterior-LO plats of HO CWS stamps; interior undecorated -measurement: shoulder thickness-9.5 mm	
	4 98	3 body sherds	–weight: 20.5 gr –CM exterior and SM interior surfaces	
	499	3 body sherds	–weight: 20.9 gr –SC exterior and SM interior surfaces	
	500	fragmentary sherds	–weight: 331.9 gr –CM, SC and SM surfaces; many with CWS stamps and CP	
495-230*	501	neck sherd	weight: 7.3 grSM exterior and interior surfaces; coil breakdecoration: exteriorat least 1 band of VE CWS stamps over 1 band of RO CWS stamps; interiorundecoratedmeasurement: neck thickness-7.8 mm	
	502	shoulder sherd	weight: 5.5 grSM exterior and interior surfacesdecoration: exteriorrows of HO CWS stamps; interiorundecoratedmeasurement: shoulder thickness5.5 mm	
	503	4 body sherds	–weight: 39.9 gr –SC exterior and SM interior surfaces	

Provenience	Cat #	Nature of Specimen	Description of Specimen	Comments
495-230 (continued)	504	fragmentary sherds	-weight: 214.9 gr -CM, SC and SM surfaces; several with CWS stamps and CP; 1 coil break	
	505	pipe fragment	-weight: 1.3 gr -bowl fragment; see pipe descriptions	
	506	miscellaneous ceramic object	weight: 6.4 gr lumps of clay; 1 is incised	
495-235*	507	fragmentary rim sherd	-weight: 8.4 gr -details: SC exterior, SM interior and lip surfaces; vertical rim with flat lip -decoration: exterior-band of short RO CWS stamps [just below lip], over un- decorated zone [upper neck-?] superimposed with CP [neck]; interior-single band of VE CWS stamps [upper rim], over undecorated zone [neck-?] superimposed with BO [neck]; lip-single row of HO CWS stamps -measurements: lip thickness-10.8 mm; neck thickness-7.1 mm; upper rim height- 10.4 mm	
	508	neck sherd	-weight: 4.5 gr -SM exterior and interior surfaces -decoration: exterior-partial band of RO CWS stamps [?-upper neck] super-imposed with CP [neck] over a single band of LO CWS stamps [lower neck], over at least 1 band of short RO CWS stamps [upper shoulder-?]; interior-single band of VE CWS stamps [upper nim], over undecorated zone [neck-?] superimposed with BO [neck] -measurement: neck thickness-8.0 mm	
	509	shoulder sherd	 -weight: 4.6 gr -SM exterior and interior surfaces -decoration: exterior—at least 1 band of RO CWS stamps; interior—undecorated -measurement: shoulder thickness—7.7 mm 	
	510	7 body sherds	–weight: 60.5 gr –SC exterior and SM interior surfaces	
	511	3 body sherds	weight: 20.3 gr SM exterior and interior surfaces	
	512	fragmentary sherds	weight: 283.6 gr CM, SC and SM surfaces; many with traces of CWS stamps and CP; two coil breaks	
496-220	513	neck-shoulder sherd ·	weight: 6.8 grSM exterior and interior surfacesdecoration: exteriorrows of HO CWS stamps over VE plats of short HO CWS stamps; interiorundecoratedmeasurements: neck thickness8.8 mm; shoulder thickness7.6 mm	
-	514	shoulder sherd	-weight: 5.4 gr -SM exterior and interior surfaces -decoration: exterior—at least 2 rows of HO CWS stamps; interior— undecorated -measurement: shoulder thickness—8.5 mm	
	515	shoulder sherd	-weight: 10.5 gr -SM [decorative zone] over CM [body] exterior and SM interior surfaces -decoration: exterior—at least 1 row of HO CWS stamps, over undecorated zone [body]; interior—undecorated -measurement: shoulder thickness8.4 mm	
	516	body sherd	weight: 4.5 gr SC exterior and SM interior surfaces	
	517	fragmentary sherds	weight: 134.0 gr CM, SC and SM surfaces; a few with CWS stamps	

Provenience	Cat#	Nature of Specimen	Description of Specimen	Comments
496-221	518	neck sherd	-weight: 4.5 gr -SM exterior and pitted interior -decoration: exterior-RO plats of LO CWS stamps superimposed with CP; interior-undecorated zone superimposed with BO -measurement: neck thickness-7.1 mm	
	519	shoulder sherd	-weight: 4.7 gr -sloughed exterior and SM interior surfaces -decoration: exterior-LO plats of RO CWS stamps; interior- undecorated -measurement: shoulder thickness-8.0 mm	
	520	shoulder sherd	weight: 4.9 grSM exterior and interior surfacesdecoration: exteriorat least 1 row of HO CWS stamps; interior undecoratedmeasurement: shoulder thickness8.5 mm	
	521	body sherd	-weight: 8.5 gr -CM exterior and SM interior surfaces	
	522	3 body sherds	weight: 31.3 gr -SM exterior and interior surfaces	
	523	fragmentary sherds	-weight: 109.6 gr -CM, SC and SM surfaces; several sherds have CWS stamps and/or CP	
496-222	524	fragmentary rim sherd	-weight: 6.1 gr -details: SM extenor and lip, sloughed interior surfaces; slightly insloping rim with flat lip; appears collared -decoration: exterior-band of RO CWS stamps [upper rim], over at least 2 bands of very deep hemingbone CWS stamps [neck-?]; interior- undetermined [upper rim-?]; lip-row of CP -measurement: lip thickness-6.8 mm	
	525	fragmentary rim sherd	-weight: 3.3 gr -details: sloughed exterior, and SM interior and lip surfaces; ? rim with round lip -decoration: exterior-single band of faint RO CWS stamps [upper rim-?]; interior- single band of RO CWS stamps [upper rim-?]; lip-RO CWS stamps -measurement: lip thickness-7.7 mm	
	526	neck-shoulder sherd	weight: 6.4 grSC extenor and SM interior surfacesdecoration: exteriorat least 1 row of HO CWS stamps over RO plats of short HO CWS stamps; interior undecoratedmeasurement: shoulder thickness7.0 mm	
	527	body sherd	-weight: 6.9 gr -SC exterior and CM interior surfaces	
	528	9 body sherds	-weight: 91.4 gr -SC exterior and SM interior surfaces	
	529	fragmentary sherds	-weight: 172.9 gr CM, SC and SM surfaces; several have CWS stamps and/or CP	
	530	juvenile vessel fragment	-weight: 0.9 gr -upper rim fragment; see vessel descriptions	
	531	pipe fragment	-weight: 1.7 gr -bowl fragment; see pipe descriptions	
496-223	532	rim sherd (2 joined)	-weight: 27.3 gr -see vessel descriptions	Vessel 6

Provenience	Cat#	Nature of Specimen	Description of Specimen	Comments
496-223 (continued)	533	shoulder sherd	-weight: 10.9 gr -SM exterior and interior surfaces -decoration: exterior-rows of HO CWS stamps; interior-undecorated -measurement: shoulder thickness-10.3 mm	
	534	shoulder sherd	-weight: 11.7 gr -SM [decorative zone] over SC [body] exterior and SM interior surfaces -decoration: exterior-LO plat of RO CWS stamps, over decorative zone; interior- undecorated -measurements: shoulder thickness-8.6 mm; body thickness-7.8 mm	
	535	shoulder sherd	-weight: 9.0 gr -SM exterior and sloughed interior surfaces -decoration: exterior-LO plats of short, deep HO CWS stamps; interior- undetermined -measurement: shoulder thickness-n/a	
	536	shoulder sherd	-weight: 12.6 gr -SM exterior and interior surfaces -decoration: exterior-LO plats of RO CWS stamps; interior- undecorated -measurement: shoulder thickness-9.5 mm	
	537	shoulder sherd	weight: 9.5 grSM extenor and interior surfacesdecoration: exterior-rows of RO CWS stamps; interior-undecoratedmeasurement: shoulder thickness-7.7 mm	
	538	shoulder sherd	-weight: 2.7 gr -SM exterior and interior surfaces -decoration: exterior-rows of HO CWS stamps; interior-undecorated -measurement: shoulder thickness-4.4 mm	
	539	body sherd	-weight: 6.4 gr -SC exterior and CM interior surfaces	
	540	body sherd	weight: 4.0 gr CM exterior and SM interior surfaces	
	541	10 body sherds	-weight: 88.2 gr -SC exterior and SM interior surfaces	
	542	body sherd	-weight: 12.5 gr -SM exterior and interior surfaces	
	543	fragmentary sherds	-weight: 466.9 gr CM, SC and SM surfaces; many sherds with CWS stamps and/or CP; 3 coil breaks	
496-224	544	2 fragmentary rim sherds	-weight: 7.8 gr -details: SM exterior, interior and lip surfaces; out-flaring rim with round lip -decoration: exterior-single band of RO CWS stamps [upper rim], over at least 3 rows of HO CWS stamps [neck-?] super-imposed with CP [lower neck]; interior-partial band of RO CWS stamps [upper rim-?]; lip-VE CWS stamps -measurements: lip thickness-6.8 mm; neck thickness-n/a; upper rim height-10.1 mm	
	545	fragmentary rim sherd	-weight: 5.1 gr -details: SC [upper rim] over SM [decorative zone] exterior, sloughed interior surfaces, and SM lip; out-laring rim with splayed lip -decoration: exterior-undecorated zone [upper rim], over rows of HO CWS stamps [neck-?] superimposed with CP [upper shoulder]; interior- undetermined [upper rim-?]; lip-single row of HO CWS stamps -measurements: lip thickness-n/a; neck thick-ness-n/a; upper rim height-15.1 mm	

Provenience	Cat#	Nature of Specimen	Description of Specimen	Comments
496-224 (continued)	546	fragmentary rim sherd	-weight: 37.2 gr -sloughed exterior, SM interior and lip surfaces; insloping rim with flat lip -decoration: exterior-undetermined; interior-undecorated; lip-linear gashes running across lip -measurement: lip thickness-11.2 mm	-possibly a juvenile vssl
	547	neck-shoulder sherd	-weight: 13.1 gr -SC exterior and SM interior surfaces -decoration: exterior-undecorated but superimposed with CP; interior- undecorated -measurements: neck thickness-7.9 mm; shoulder thickness-n/a.	
	548	shoulder sherd	-weight: 5.9 gr -SC exterior and WI interior surfaces -decoration: exterior-LO plats of RO CWS dragged stamps; interior- undecorated -measurement: 5.2 mm	
	549	shoulder sherd	-weight: 5.4 gr -SM exterior and interior surfaces -decoration: exterior-rows of HO CWS stamps; interior- undecorated -measurement: shoulder thickness-9.3 mm	
	550	shoulder sherd (2)	-weight: 22.3 gr -SC exterior and SM interior surfaces -decoration: exterior-RO plats of HO CWS stamps; interior- undecorated -measurement: shoulder thickness-9.4 mm	
	551	neck-shoulder sherd	-weight: 22.3 gr -SM exterior and interior surfaces -decoration: exterior-rows of HO CWS stamps over LO plats of HO CWS stamps; interior-undecorated -measurements: neck thickness-9.7 mm; shoulder thickness-11.0 mm	
	552	neck-shoulder sherd	-weight: 20.7 gr -SC [decorative zone] over SC [body] exterior and SM interior surfaces -decoration: exterior-LO plats of HO CWS stamps, over undecorated zone [body]; interior-undecorated -measurements: neck thickness-6.5 mm; shoulder thickness-8.3 mm	
	553	4 body sherds	-weight: 27.3 gr -SC exterior and CM interior surfaces	
	554	3 body sherds	-weight: 14.1 gr -CM exterior and SM interior surfaces	
	555	11 body sherds	-weight: 154.7 gr -SC exterior and SM interior surfaces	
	556	2 base sherds	-weight: 41.4 gr -SC exterior and SM interior surfaces; round base -measurement: base thickness9.6 mm	
	557	fragmentary sherds	-weight: 554.2 gr -CM, SC and SM surfaces; many CWS stamps and CP; several coil breaks	
	558	pipe fragment	-weight: 4.0 gr -pipe stem fragment; see pipe descriptions	
	559	pipe fragment	-weight: 2.3 gr -pipe bowl fragment; see pipe descriptions	
	560	pipe fragment	-weight: 1.3 gr -pipe bowl fragment; see pipe descriptions	

Provenience	Cat#	Nature of Specimen	Description of Specimen	Comments
497-220	561	fragmentary rim sherd	-weight: 1.9 gr -SM exterior, interior and lip surfaces; ? rim with flat lip -decoration: exterior-2 bands of VE CWS dragged stamp[upper rim] superimposed with CP [upper shoulder], over undecorated zone [neck-?]; interior-single band of LO CWS dragged stamp [upper rim], over undecorated zone [neck-?] superimposed with BO [upper shoulder]; lip-RO CWS dragged stamp -measurements: lip thickness-5.5 mm; neck thickness-5.9 mm; upper rim height-9.0 mm	
	562	neck-shoulder sherd	-weight: 7.8 gr -SM exterior and interior surfaces -decoration: exterior-RO plats of LO CWS stamps; interior- undecorated -measurements: neck thickness-n/a; shoulder thickness- 8.1 mm	
	563	5 body sherds	-weight: 46.4 gr -SC exterior and SM interior surfaces	
	564	fragmentary sherds	-weight: 101.4 gr -CM, SC and SM surfaces	
497-221	565	neck-shoulder sherd	-weight: 3.3 gr -SM exterior and sloughed interior surfaces -decoration: exterior-band of OP (HO/RO) CWS stamps; interior- undetermined -measurements: neck and shoulder thickness-n/a	
	566	body sherd	-weight: 5.0 gr -CM exterior and SM interior surfaces	
	567	2 body sherds	-weight: 13.2 gr -SC exterior and SM interior surfaces	
	568	2 base sherds	weight: 26.4 grSM exterior and interior surfaces; round basemeasurement: base thickness-17.9 mm	
	569	fragmentary sherds	-weight: 172.2 gr -CM, SC and SM surfaces; numerous sherds with CWS stamps and CP	
	1252	pipe fragment	-weight: 0.8 gr -pipe stem fragment; see pipe descriptions	
497-222	570	shoulder sherd .	weight: 3.9 grSM exterior and interior surfacesdecoration: exterior-rows of RO CWS stamps over partial band of short VE CWS stamps; interior-undecoratedmeasurement: shoulder thickness-6.9 mm	
	571	6 body sherds	weight: 44.5 gr SC exterior and SM interior surfaces	
	572	base sherd	-weight: 20.8 gr -SC exterior and SM interior surfaces; probably round base -measurement: base thickness-13.6 mm	
	573	base sherd	weight: 13.8 gr SM exterior and interior surfaces; semi-conical base	
	574	fragmentary sherds	-weight: 109.5 gr -CM, SC and SM surfaces; many with CWS stamps and CP	
	575	pipe fragment	weight: 1.3 gr pipe bowl fragment; see pipe descriptions	

Provenience	Cat#	Nature of Specimen	Description of Specimen	Comments
	1253	pipe fragment	-weight: 4.4 gr -pipe stem fragment; see pipe descriptions	
497-223	576	fragmentary rim sherd	-weight: 3.8 gr -details: SM exterior, interior and lip surfaces; vertical rim with flat lip -decoration: exterior-single band of short RO CWS stamps [upper rim], over undetermined zone [neck-?]; interior-single band of short RO CWS stamps [upper rim], over undecorated zone [neck-?]; lip-undecorated -measurements: lip thickness-4.6 mm; neck thickness-6.4 mm; upper rim height- 7.7 mm	
	577	body sherd	-weight: 4.3 gr -SC exterior and CM interior surfaces	
	578	body sherd	-weight: 14.2 gr CM exterior and SM interior surfaces	
	579	19 body sherds	-weight: 145.0 gr -SC exterior and SM interior surfaces	
	580	body sherd	-weight: 4.6 gr -SM exterior and interior surfaces	
	581	base sherd	-weight: 18.4 gr	
	582	fragmentary sherds	-weight: 414.0 gr	
497–224	583	rim sherd	-weight: 27.2 gr -see vessel descriptions	Vessel 7
	584	fragmentary rim sherd (2 joined)	weight: 14.3 gr see vessel descriptions	-Vessel 64
	585	fragmentary rim sherd	weight: 2.0 grdetails: SM exterior and lip, combed interior surfaces; ? rim with flat lipdecoration: exterior-single band of RO CWS stamps [upper rim-neck] super- imposed with CP [neck], over at least 1 row of HO CWS stamps [upper shoulder-?]; interior-undecorated zone [upper rim-?] superimposed with BO [neck]; lip-RO CWS stampsmeasurements: lip thickness-8.1 mm; neck thickness-6.0 mm; upper rim height- 11.7 mm	
	586	fragmentary rim · sherd	-weight: 4.3 gr -details: SM exterior, CM over WI interior, and CM lip surfaces; ? rim with flat lip; bumt sherd -decoration: exterior-at least 2 bands of RO CWS stamps [upper rim-?]; interior-undecorated [upper rim-?]; lip-row of HO CWS stamps -measurement: lip thickness-6.1 mm	
	587	shoulder sherd	-weight: 3.2 gr -SM exterior and interior surfaces -decoration: exterior-at least 1 row of HO CWS stamps over LO plats of short HO CWS stamps; interior-undecorated -measurement: shoulder thickness-5.5 mm	
	588	shoulder sherd	-weight: 9.8 gr -SM [decorative zone] over SC [body] exterior and SM interior surfaces -decoration: exterior-RO plats of LO CWS stamps, over undecorated zone [body]; interior-undecorated -measurement: shoulder thickness-8.3 mm	

Provenience	Cat#	Nature of Specimen	Description of Specimen	Comments
	589	shoulder sherd	-weight: 11.0 gr -SM exterior and interior surfaces -decoration: exterior-rows of HO CWS stamps; interior-undecorated -measurement: shoulder thickness-10.1 mm	
497–224 (continued)	590	shoulder sherd	-weight: 8.7 gr -SM interior and WI interior surfaces -decoration: exterior-LO plats of RO CWS stamps; interior- undecorated -measurement: shoulder thickness-8.6 mm	
	591	shoulder sherd	-weight: 6.3 gr -SC exterior and SM interior surfaces -decoration: exterior-RO plat of LO CWS stamps opposed with undecorated zone with faint RO incised lines; interior- undecorated -measurement: shoulder thickness-6.8 mm	
	592	shoulder sherd	-weight: 5.4 gr -SM exterior and interior surfaces -decoration: exterior-rows of OP (LO/RO) CWS stamps; interior- undecorated -measurement: shoulder thickness-8.8 mm	
	593	2 body sherds	-weight: 15.8 gr -CM exterior and SM interior surfaces	
	594	14 body sherds (2 joined)	-weight: 145.8 gr -SM exterior and SM interior surfaces; 1 coil break	
	595	4 body sherds	-weight: 26.0 gr -SC exterior and CM interior surfaces	
	596	fragmentary sherds	weight: 539.6 gr CM, SC and SM surfaces; many sherds with CWS stamps and CP; three observed coil breaks	
	597	pipe fragment	-weight: 2.6 gr -bowl fragment; see pipe descriptions	
499-244*	598	fragmentary sherd	-weight: 0.5 gr	
499-254*	599	fragmentary sherds	-weight: 4.3 gr SC and SM surfaces; 1 has CWS stamps	
499-267*	600	body sherd -	-weight: 5.0 gr -SC exterior and SM interior surfaces	
	601	fragmentary sherds	weight: 3.2 gr CM and SC surfaces; two with CWS stamps	
500-180*	602	fragmentary sherd	-weight: 1.5 gr -SC exterior and SM interior surfaces	
500-190*	603	fragmentary sherds	-weight: 8,3 gr -CM, SC and SM surfaces; a few with CWS stamps	
500-199*	604	5 body sherds	weight: 21.7 grCM exterior and SM interior surfaces; 1 coil break	
	605	fragmentary sherds	-weight: 8.1 gr -CM and SM surfaces	

Provenience	Cat #	Nature of Specimen	Description of Specimen	Comments
500-210*	606	fragmentary rim sherd	-weight: 1.9 gr -details: SM exterior, interior and lip surfaces; ? rim with flat lip -decoration: exterior-partial band of RO CWS stamps [upper rim-?]; interior-band of RO CWS stamps [upper rim-?]; lip-single row of HO CWS stamps over VE CWS stamps -measurement: lip thickness-8.5 mm	
	607	body sherd	-weight: 5.6 gr -SC exterior and SM interior surfaces	
	608	fragmentary sherds	-weight: 3.5 gr -SC exterior and SM interior surfaces	
500-220*	609	neck-shoulder sherd	-weight: 5.4 gr -SM exterior and interior surfaces -decoration: exterior-rows of HO CWS stamps; interior-undecorated -measurements: neck thickness-4.4 mm; shoulder thickness-4.3 mm	
	610	body sherd	-weight: 3.4 gr -CM exterior and SM interior surfaces	
	611	2 body sherds	weight: 21.7 gr SC exterior and interior surfaces; 1 coil break	
	612	fragmentary sherds	-weight: 53.8 gr -CM, SC and SM surfaces; many with CWS stamps	
500-229*	613	shoulder sherd (2 joined)	-weight: 8.6 gr -SM [decorative zone] over SC [body] exterior and pitted (CM?) interior surfaces; carinated shoulder -decoration: exterior-rows of LO CWS stamps, over undecorated zone [body]; interior-undecorated -measurement: shoulder thickness-8.6 mm	
;	614	shoulder sherd	-weight: 5.1 gr -SM exterior and interior surfaces -decoration: exterior-LO plats of short HO CWS stamps; interior- undecorated -measurement: shoulder thickness-7.4 mm	
	615	shoulder sherd	-weight: 8.2 gr -SM [decorative zone] over SC [body] exterior and SM interior surfaces -decoration: exterior-LO plats of HO CWS stamps, over undecorated zone [body]; interior- undecorated -measurement: shoulder thickness-10.6 mm	
	616	body sherd	weight: 10.4 gr SM exterior and interior surfaces; evidence of possible CWS dragged stamps	
	617	3 body sherds	-weight: 30.1 gr -SC exterior and SM interior surfaces	
	618	fragmentary sherds	weight: 86.8 gr CM, SC and SM surfaces; many with CWS stamps and 1 with CP	
			5 m ² RECORDING UNITS	
475-200 Post #5	619	body sherd	-weight: 8.2 gr -SC exterior and SM interior surfaces	
475-225 Post #16	620	body sherd	-weight: 2.7 gr -CM exterior and SM interior s urfaces	

Provenience	Cat #	Nature of Specimen	Description of Specimen	Comments
	621	fragmentary sherds	weight: 4.4 gr CM and SM surfaces	
480-200 -Post #13	622	fragmentary sherd	weight: 1.7 gr SC and SM surfaces	
480-205 Post #14	623	fragmentary sherd	weight: 0.6 gr –SC exterior and sloughed interior surfaces	
Post #20	624	fragmentary sherd	weight: 2.5 gr SC exterior and sloughed interior surfaces	
480-215 Post #4	625	body sherd	–weight: 26.4 gr –SC exterior and SM interior surfaces	
Post #10	626	neck sherd	-weight: 3.8 gr -SM exterior and interior surfaces -decoration: exterior-LO plats of HO CWS stamps; interior- undecorated -measurement: neck thickness-6.6 mm	
	627	fragmentary sherd	-weight: 2.5 gr -SM exterior and interior surfaces; faint CWS stamps	
Post #12	628	neck-shoulder sherd	weight: 63.5 grSC exterior and SM interior surfacesdecoration: exterior-basal portion of band of RO CWS stamps over 2 rows of HO CWS stamps (with single band of HO CWS dragged stamps between rows) over rows of RO CWS stamps; interior- undecoratedmeasurements: neck thickness-8.2 mm; shoulder thickness-10.6 mm	
	629	body sherd	–weight: 42.7 gr –SC exterior and SM interior surfaces	
	630	juvenile vessel	–weight: 73.8 gr –see vessel descriptions	
Post #18	631	body sherd	weight: 9.9 gr SC exterior and WI interior surfaces	
	632	2 base sherds	-weight: 68.7 gr -SC exterior and SM interior surfaces; round base -measurement: base thickness-14.7 mm	
	633	fragmentary sherds	–weight: 13.0 gr –SC and SM surfaces	
-Post #20	634	shoulder sherd	-weight: 5.5 gr -SM exterior and interior surfaces -decoration: exterior-rows of OP (RO/HO) CWS punctates; interior- undecorated -measurement: shoulder thickness-6.0 mm	
-Post #24	635	body sherd	weight: 6.7 gr CM exterior and S M interior surfaces	
-Post #28	636	fragmentary sherds	-weight: 37.1 gr -SC and SM surfaces; several with CWS stamps, and 1 with CP	
	637	miscellaneous ceramic object	weight: 3.1 gr see description	
480-215 (continued) Post #30	638	body sherd	-weight: 2.9 gr -SC exterior and SM interior surfaces	

Provenience	Cat #	Nature of Specimen	Description of Specimen	Comments
Post #31	639	fragmentary sherds	-weight: 5.3 gr -CM and SC surfaces	
480-220 Post #14	640	base sherd	-weight: 42.6 gr -SM exterior and interior surfaces; round base -measurement: body thickness-12.2 mm; base thick-ness-16.3 mm	
480-225 –surface	641	neck-shoulder sherd	-weight: 10.6 gr -SM exterior and interior surfaces -decoration: exterior-rows of HO CWS stamps [neck-?] superimposed with CP [neck]; interior-partial band of RO CWS stamps [?-neck], over undecorated zone [upper shoulder-?] -measurement: neck thickness-10.6 mm; shoulder thickness-9.5 mm	
480-225 —surface (continued)	641a	shoulder sherd	weight: 6.8 grCM exterior and pitted interior surfacesdecoration: exterior-LO plats of RO CWS stamps; interior- undeterminedmeasurement: shoulder thicknessn/a	
	641b	body sherd	weight: 14.9 gr CM exterior and SM interior surfaces	
	641c	body sherd	-weight: 5.3 gr -SC exterior and SM interior surfaces	
·	641d	body sherd	–weight: 6.0 gr –SM exterior and interior surfaces	
	641e	fragmentary sherds	-weight: 194.6 gr -CM, SC and SM surfaces; a few have CWS stamps, and two have CP; 1 coil break	
–Post #9	642	body sherd	-weight: 8.6 gr -SC exterior and SM interior surfaces	<u></u>
-Post #14	643	fragmentary sherd	-weight: 2.1 gr -SC exterior and SM interior surfaces	
-Feature 59 (post)	642a	fragmentary sherds	-weight: 18.1 gr -CM, SC and SM surfaces; several with CWS stamps	<u> </u>
-Feature 61 (post)	642b	fragmentary sherds	–weight: 15.2 gr –SC and SM surfaces	
480-230 –Post #14	644	body sherd	weight: 6.4 gr SC exterior and SM interior surfaces	
	645	fragmentary sherds	-weight: 4.5 gr SC and SM surfaces; 1 has CWS stamps	
480-235 –surface	646	fragmentary rim sherd	weight: 6.3 gr see vessel descriptions	-Vessel 65
	647	2 shoulder sherds	-weight: 22.9 gr -SM exterior and sloughed interior surfaces -decoration: exterior-OP (RO/HO) incised lines; interior- n/a -measurement: shoulder thickness-n/a	
	648	4 body sherds	–weight: 39.1 gr –CM exterior and CM interior surfaces	
480-235surface (continued)	649	10 body sherds	–weight: 64.3 gr –SC exterior and SM interior surfaces	

Provenience	Cat #	Nature of Specimen	Description of Specimen	Comments
	650	body sherd	-weight: 8.7 gr -SM exterior and interior surfaces	
	651	fragmentary sherds	-weight: 245.5 gr -CM, SC and SM surfaces; many sherds with CWS stamps and several CP; 3 have coil breaks	
–Post #12	652	body sherd	-weight: 7.8 gr -SC exterior and SM interior surfaces	
485-200 Post #8	653	fragmentary sherds	weight: 5.7 gr CM and SC surfaces; 1 has CWS stamps	
485-215 Post #5	654	body sherd	-weight: 3.6 gr -SC exterior and SM interior surfaces	
Post #21	655	shoulder sherd	weight: 14.7 grSM exterior and interior surfacesdecoration: exterior-nested, right-angled rows of LO and HO short CWS stamps over LO plats of LO (or nearly HO) cord-impressed stamps (or knots); interior-undecoratedmeasurements: neck thickness-9.1 mm; shoulder thickness-5.8 mm	-upper motif similar to Vessel 3
485-220 -Post 8	656	2 body sherds	weight: 11.9 gr SC exterior and SM interior surfaces	
	657	fragmentary sherds	-weight: 9.4 gr -SC and SM surfaces	
485-225 -Post #2	658	body sherd	-weight: 12.8 gr -SC exterior and SM interior surfaces	
	659	fragmentary sherds	weight: 14.1 gr SC and SM surfaces	
-Post #5	660	fragmentary sherd	-weight: 3.0 gr -SM exterior and interior surfaces; RO CWS stamps	
-Post #12	661	body sherd (4 joined)	–weight: 51.1 gr –SC exterior and SM interior surfaces	
485-230 –Post #9	662	fragmentary sherd	weight: 2.1 gr -SM exterior and sloughed interior surfaces; sherd has CWS stamps	
490-210 Post #27	663	shoulder sherd	-weight: 11.1 gr -SM exterior and interior surfaces -decoration: exterior-LO plats of RO CWS stamps; interior- undecorated -measurement: shoulder thickness-9.8 mm	
-Post #32	664	fragmentary sherd	-weight: 1.6 gr -SM exterior and interior surfaces; CWS stamps	
490-215 –Post #47	665	body sherd	weight: 21.0 gr CM exterior and SM interior surfaces	
-Post #50	666	2 body sherds	-weight: 17.8 gr -SC exterior and SM interior surfaces	
490-220 Post #20	667	fragmentary sherds	-weight: 20.1 gr -SC and SM surfaces; 1 has CWS stamps	
490-225 Post #9	668	3 body sherds	-weight: 14.1 gr -CM exterior and SM interior surfaces	

Provenience	Cat#	Nature of Specimen	Description of Specimen	Comments
490-240 -Post #4	669	fragmentary rim sherd	-weight: 6.7 gr -see vessel descriptions	-Vessel 58
	670	neck-shoulder sherd	-weight: 108.6 gr -associated with Vessel 58	see #669
	671	fragmentary sherds	-weight: 41.2 gr -SC and SM surfaces	
–Post #5	672	base sherd	-weight: 17.1 gr -SC exterior and SM interior surfaces -measurement: base thickness-17.2 mm	
4 95-240 -Post #2	673	3 body sherds	weight: 27.3 grCM exterior and SM interior surfaces	
	674	base sherd	-weight: 81.0 gr -SC exterior and SM interior surfaces; semi-conical base -measurement: base thickness-22.6 mm	
		<u> </u>	FEATURES	
Feature 1 -south ½ (fill)	675	2 rims, 2 neck sherds (all joined)	-weight: 64,8 gr see vessel descriptions	-Vessel 8
	676	2 rim sherds (joined)	weight: 15.5 gr see vessel descriptions	Vessel 9
	677	4 rims (joined)	weight: 27.1 gr see vessel descriptions	Vessel 10
	678	fragmentary rim, 2 neck sherds (all joined)	weight: 4.7 grsee vessel descriptions; see also #255 & #692	-Vessel 3
	679	3 fragmentary rim sherds	weight: 4.6 gr associated with Vessel 10	see #677
	680	fragmentary rim sherd	weight: 8.4 grdetails: SM exterior, interior and lip surfaces; out-flaring rim with flat lipdecoration: exterior-single band of slightly RO CWS stamps [upper rim], over undetermined zone [neck-?] superimposed with CP [neck]; interior-single band of slightly RO CWS stamps [upper rim], over undecorated zone [neck-?]; lip-RO CWS stampsmeasurements: lip thickness-8.8 mm; neck thickness-10.3 mm; upper collar height-7.5 mm	
	681	13 fragmentary rim sherds (12 joined)	-weight: 25.5 gr -details: SM exterior, interior and lip surfaces; out-flaring rim with flat lip -decoration: exterior-single band of CC (RO/RO) CWS stamps [upper rim]. over at least 1 row of HO CWS stamps [neck-?]; interior-single band of short RO CWS dragged stamps [just below lip] over a band of RO CWS stamps [upper rim]; lip-RO CWS stamps -measurement: lip thickness-7.4 mm	
	682	2 neck sherds (joined), 7 shider sherds (4 joined)	-weight: 59.8 gr -associated with Vessel 8	see #675
Feature 1 -south ½ (fill)	683	3 fragmentary rim sherds (2 joined)	-weight: 7.3 gr -associated with Vessel 9	see #676

Provenience	Cat#	Nature of Specimen	Description of Specimen	Comments
	684	frag. rim, 3 neck sherds (2 joined)	weight: 5.6 gr associated with Vessel 3	see #255
	685	shoulder sherd	weight: 7.7 grSM [decorative zone] over SC [body] exterior and SM interior surfacesdecoration: exteriorLO plats of RO CWS stamps, over undecorated zone [body]; interiorundecoratedmeasurement: shoulder thickness-6.8 mm	
	686	shoulder sherd	-weight: 10.4 gr -SM exterior and interior surfaces -decoration: exterior-rows of OP (RO/LO CWS) CWS stamps; interior- undecorated -measurement: shoulder thickness-9.5 mm	
	687	shoulder sherd	-weight: 10.2 gr -SM exterior and interior surfaces -decoration: exterior-partial band of VE CWS stamps over a single row of HO CWS stamps over LO plats of short RO CWS stamps; interior- undecorated -measurement: shoulder thickness-6.2 mm	
	688	shoulder sherd	weight: 5.1 grSM exterior and interior surfacesdecoration: exteriorrows of HO CWS stamps; interiorundecoratedmeasurement: shoulder thickness6.6 mm	
	689	24 body sherds (3 joined)	–weight: 179.3 gr –SC exterior and SM interior surfaces	
	690	base sherd	-weight: 31.0 gr -SC exterior and pitted interior surfaces; round basemeasurement: base thickness-16.0 mm	
	691	fragmentary sherds	 -weight: 159.8 gr -CM, SC and SM surfaces; many with CWS stamps and CP, a few with incising or dentate stamps; 2 coil breaks 	
	1233	pipe fragment	weight: 42.3 gr pipe bowl fragment; see pipe descriptions	
–north ½ (Lvl 3)	692	2 neck-shoulder sherds (joined)	–weight: n/a –associated with Vessel 3	-see #255
	693	2 neck, 3 shoulder sherds (all joined)	–weight: 16.1 gr –associated with Vessel 3	-see #255
	694	2 neck, 13 shoulder sherds (all joined)	–weight: 116.3 gr –associated with Vessel 8	-see #675
	695	nm sherd	-weight: 34.2 gr -associated with Vessel 10	-see #677
	696	4 shoulder sherds	–weight: 41.8 gr –associated with Vessel 10	see #677
	697	5 shoulder sherds	-weight: 40.3 gr associated with Vessel 10	see #677
	698	fragmentary sherd	–weight: 1.4 gr –associated with Vessel 9	see #676

Provenience	Cat#	Nature of Specimen	Description of Specimen	Comments
Feature 1 -north ½ (Lvl 3)	699	fragmentary sherd	-weight: 1.4 gr -associated with Vessel 3	see #255
(continued)	700	shoulder sherd	-weight: 12.0 gr -SM [decorative zone] over SC [body] exterior and SM interior surfaces -decoration: exterior-partial band of RO CWS stamps, over undecorated zone [body]; interior-undecorated -measurement: shoulder thickness-9.6 mm	
	701	14 body sherds (8 joined)	-weight: 93.6 gr -CM exterior and SM interior surfaces	
	702	31 body sherds (15 joined)	-weight: 307.5 gr -SC exterior and SM interior surfaces	
	703	fragmentary sherds	-weight: 308.0 gr -CM, SC and SM surfaces; numerous sherds with CWS stamps, and a few with CP	
Feature 1 -north ½ (Lvl 5)	704	body sherd	-weight: 8.3 gr -CM exterior and SM interior surfaces	
	705	body sherd	weight: 5.3 gr SC exterior and SM interior surfaces	
	706	base sherd	weight: 91.6 grSC exterior and SM interior surfaces; round basemeasurement: base thickness-15.5 mm	
	707	fragmentary sherds	weight: 7.5 gr SC and SM surfaces; CWS stamps observed	
Feature 3 -NW & S ½	708	rim sherd	weight: 13.4 gr see vessel description	Vessel 11
quad (fill)	709	3 body sherds	weight: 16.4 gr CM exterior and SM interior surfaces	
	710	body sherd	-weight: 7.3 gr -SM exterior and SM interior surfaces	
	711	fragmentary sherds	-weight: 1.7 gr -SC and SM surfaces	
NW quad (fill)	712	fragmentary sherd	weight: 1.4 gr SM surface	
–SE ½ quad (fill)	713	fragmentary sherds	-weight: 0.6 gr -SM surfaces	
Feature 5 –SE ½ quad	714	fragmentary sherds	-weight: 5.5 gr -CM and SM surfaces	
Feature 7 (all) -surface	715	2 neck-shoulder sherds	-weight: n/a -associated with Vessel 12	-see #740
	716	body sherd	-weight: 3.3 gr -CM exterior and SM interior surfaces	
	716a	body sherd	-weight: 17.6 gr -SC exterior and SM interior surfaces	
	717	fragmentary sherds	-weight: 43.1 gr -CM, SC and SM surfaces; at least 1 sherd with CWS stamps	

Provenience	Cat#	Nature of Specimen	Description of Specimen	Comments
Feature 7a -SE quad (fill)	718	3 body sherds	weight: 30.9 gr CM exterior and SM interior surfaces	
	719	base sherd	-weight: 57.7 gr -CM exterior and WI interior surfaces; round base -measurement: base thickness-13.3 mm	
	720	fragmentary sherds	-weight: 28.4 gr -CM, SC and SM surfaces; several have CWS stamps	
-NE quad (fill)	721	fragmentary sherd	-weight: 1.5 gr -SC exterior and SM interior surfaces	
-north ½ (fill)	722	fragmentary rim sherd	-weight: 4.9 gr -details: SC exterior and sloughed interior surfaces; ? rim with flat lip -decoration: exterior-single band of LO CWS stamps [upper rim], over undecorated zone [neck-?]; interior-n/a -measurement: lip thickness-7.0 mm	
	723	decorated body sherd	-weight: 15.4 gr -CM exterior and pitted interior surfaces -decoration: exterior-CWS stamps; interiorundecorated -measurement: body thickness-6.3 mm	
	724	body sherd	-weight: 13.7 gr -SC exterior and SM interior surfaces	
	725	fragmentary sherds	-weight: 42.9 gr -CM, SC and SM surfaces; several with CWS stamps	
-SW quad (fill)	726	fragmentary sherds	-weight: 3.6 gr -SC and SM surfaces	
-NW quad (fill)	727	fragmentary sherds	-weight: 5.1 gr -SC and SM surfaces; 1 has CWS stamps	
Feature 7bsurface	728	fragmentary sherds	-weight: 12.9 gr -SC and SM surfaces; 1 has CWS stamps	
-north ⅓ (fill)	729	fragmentary rim sherd .	-weight: 4.9 gr -details: SM exterior and interior surfaces; ? rim with flat lip -decoration: exterior-single band of RO CWS stamps [upper rim-neck], over at least 1 row of HO CWS [upper shoulder-?] superimposed with CP [upper shoulder]; interior-single band of VE CWS stamps [upper rim], over undecorated zone [neck-?] superimposed with BO [upper shoulder]; lip-RO CWS stamps -measurements: lip thickness-7.2 mm; neck thickness-5.4 mm; upper collar height-14.0 mm	
	730	shoulder sherd	-weight: 3.6 gr -SC extenor and SM interior surfaces -decoration: exterior-at least 1 row of HO CWS stamps over RO plats of short HO CWS stamps; interior- undecorated -measurement: shoulder thickness-7.2 mm	
	731	shoulder sherd (2 joined)	-weight: 15.4 gr -CM [decorative zone] over CM [body] exterior and SM interior surfaces -decoration: exterior-at least 2 rows of widely-spaced HO CWS stamps, over undecorated zone [body]; interior-undecorated -measurements: shoulder thickness-5.1 mm; body thickness-5.9 mm	
	732	2 body sherds	-weight: 16.7 gr CM exterior and SM interior surfaces	

Provenience	Cat #	Nature of Specimen	Description of Specimen	Comments
Feature 7b -north ½ (fill)	733	body sherd	-weight: 19.8 gr -SM exterior and interior surfaces	
(continued)	734	base sherd	-weight: 41.8 gr -SC exterior and CM interior surfaces; semi-conical base -measurement: base thickness-18.1 mm	
	735	fragmentary sherds	-weight: 13.9 gr -CM, SC and SM surfaces	
-north ½ (surf.)	736	2 neck sherds	weight: n/ajoined to Vessel 12	see #740
	737	neck sherd	-weight: 1.1 gr -SM exterior and interior surfaces -decoration: exterior-series of HO incised lines over short LO CWS punctates; interior-undecorated -measurement: neck thickness-3.3 mm	
	738	16 body sherds (most are joined)	-weight: 98.5 gr -SC exterior and SM interior surfaces	
	739	fragmentary sherds	weight: 6.4 gr SC exterior and SM interior surfaces	
Feature 7c -north ½ (fill)	740	2 rim sherds	weight: 186.2 gr see vessel description	Vessel 12
	741	rim and neck sherds	-weight: 34.1 gr -see vessel description	Vessel 13
	742	5 shoulder sherds (joined)	-weight: 14.8 gr -SC exterior and SMWI interior surfaces -decoration: exterior-RO plats of HO CWS stamps; interior- undecorated -measurements: neck thickness-n/a; shoulder thickness- 8.5 mm	
	743	3 body sherds	-weight: 6.1 gr -CM exterior and SM interior surfaces	
	744	14 body sherds (11 joined)	-weight: 71.1 gr -SC exterior and SM interior surfaces	
	745	base sherd .	-weight: 49.6 grSC extenor and SM interior surfaces; round basemeasurement: base thickness12.2 mm	
	746	fragmentary sherds	-weight: 49.6 grCM, SC and SM surfaces; several have CWS stamps, and 1 has a CP; finger impressions	
-south ⅓ (fill)	747	5 shoulder sherds	-weight: n/a -joined to Vessel 12	-see #740
	748	2 neck-shoulder sherds	-weight: 6.3 gr -SC exterior and SM interior surfaces -decoration: exterior-several rows of HO CWS stamps; interior- undecorated -measurement: shoulder thickness-7.2 mm	
	749	3 body sherds	-weight: 19.3 gr -CM exterior and SM interior surfaces	
	750	10 body sherds	-weight: 70.4 gr -SC exterior and SM interior surfaces	

Provenience	Cat#	Nature of Specimen	Description of Specimen	Comments
Feature 7c -south ½ (fill) (continued)	751	fragmentary sherds	-weight: 223.0 gr -CM, SC and SM surfaces; many with CWS stamps, and a few with CP	
-Post #1	752	body sherd	-weight: 11.4 gr -CM exterior and SM interior surfaces	
	753	fragmentary sherds	-weight: 17.8 gr -CM, SC and SM surfaces	
Feature 8 NE quad (Iv 1)	754	rim sherd	-weight: 13.8 gr -see vessel descriptions	Vessel 21
	755	3 shoulder sherds	-weight: n/a -associated with Vessel 15	see #765
	755a	2 shoulder sherds	weight: n/a associated with Vessel 15	-see #767
	756	fragmentary rim sherd	-weight: 7.5 gr -associated with Vessel 14	see #786
	757	neck sherd	-weight: 5.4 gr -SM extenor and interior surfaces -decoration: exterior-partial band of RO CWS stamps [?-upper nm] over at least 1 row of HO CWS stamps [neck-?]; interior- undecorated -measurement: neck thickness-8.5 mm	
	758	3 body sherds	-weight: 17.1 gr CM exterior and SM interior surfaces	
	759	3 body sherds	-weight: 24.8 gr -SC exterior and SM interior surfaces	
	760	body sherd	-weight: 11.9 gr -SM exterior and interior surfaces	
	761	fragmentary sherds	weight: 139.1 gr CM, SC and SM surfaces; many with CWS stamps, and several with CP	
	1235	pipe fragment (2 joined)	-weight: 5.5 gr -pipe bowl fragment; see pipe descriptions	
-NE quad (Iv 2)	762	3 rim sherds (joined)	-weight: 139.2 gr -see vessel descriptions	Vessel 15
	763	rim, 2 neck sherds (joined)	-weight: 197.5 gr -associated with Vessel 15	see #762
	764	2 shoulder sherds	-weight: 37.6 gr -associated with Vessel 15	see #762
	765	7 shoulder sherds	weight: 73.4 gr associated with Vessel 15	see #762
	766	shoulder sherd	weight: 47.2 gr associated with Vessel 15	see #762
	767	2 shoulder sherds	weight: 23.7 gr associated with Vessel 15	see #762
	768	shoulder sherd	weight: 6.2 gr associated with Vessel 15	see #762

Provenience	Cat#	Nature of Specimen	Description of Specimen	Comments
Feature 8 -NE quad (lv 2)	769	shoulder sherd	weight: 5.6 grassociated with Vessel 15	see #762
(continued)	770	9 shoulder sherds	weight: 27.7 gr associated with Vessel 16	see #762
	771	rim, neck, 2 shoulder sherds (joined)	-weight: 238.3 gr see vessel descriptions	Vessel 16
	771a	rim sherd	-weight: 16.0 gr -associated with Vessel 16	-see #771
	771b	fragmentary sherds	weight: 12.2 gr associated with Vessel 16	-see #771
	772	rim sherd	-weight: 29.7 gr -associated with Vessel 16	see #771
	773	rim sherd	-weight: 27.5 gr -associated with Vessel 16	-see #771
	774	fragmentary rim sherd	–weight: 9.4 gr –associated with Vessel 16	see #771
	775	shoulder sherd	–weight: 35.2 gr –associated with Vessel 16	see #771
	776	shoulder sherd	-weight: 10.6 gr -associated with Vessel 16	see #771
	777	11 shoulder sherds	-weight: 54.4 gr -associated with Vessel 16	see #771
	778	4 shoulder sherds (joined)	-weight: 272.9 gr -see vessel descriptions	Vessel 17
	779	11 body sherds	-weight: 319.1 gr -associated with Vessel 17	see #778
	780	body sherd	weight: 250.1 gr -associated with Vessel 17	see # 7 78
	781	body sherd	-weight: 27.7 gr -associated with Vessel 17	see #778
	782	3 body sherds (joined)	-weight: 64.9 gr -hole drilled through body -associated with Vessel 17	see #778
	783	5 body sherds (joined)	-weight: 149.2 gr -associated with Vessel 17	see #778
	784	12 body sherds	-weight: 160.8 gr -associated with Vessel 17	see #778
- - - -	785	rim sherd	-weight: 96.7 gr -see vessel descriptions	Vessel 18
Ī	786	rim sherd	-weight: 84.9 gr -see vessel descriptions	Vessel 14

Provenience	Cat#	Nature of Specimen	Description of Specimen	Comments
Feature 8 -NE quad (iv 2) (continued)	787	rim sherd	-weight: 17.7 gr -see vessel descriptions	Vessel 22
	788	rim sherd	-weight: 10.0 gr -see vessel descriptions	Vessel 23
	789	fragmentary rim sherd	-weight: 6.9 gr -see vessel descriptions	Vessel 25
	790	3 fragmentary rim sherds	-weight: 20.9 gr -see vessel descriptions	Vessel 26
	791	2 rim, 3 shoulder sherds	-weight: 245.1 gr -see vessel descriptions	Vessel 31
	792	2 rim, neck, 6 shoulder, 2 body sherds (joined)	-weight: 136.1 gr associated with Vessel 31	see #791
	792a	rim, neck, 2 shoulder sherds (joined)	-weight: 62.8 gr -associated with Vessel 15	-see #791
	793	4 rim, 2 neck, 11 shoulder, 2 body sherds (joined)	weight: 462.3 gr associated with Vessel 31	see #791
	794	3 body sherds (joined)	weight: 32.2 gr associated with Vessel 31	see #791
	795	6 body sherds (joined)	-weight: 162.0 gr -associated with Vessel 31	see #791
	796	2 body sherds (joined)	weight: 269.8 gr associated with Vessel 31	see #791
	797	3 neck sherds	-weight: 23.6 gr -associated with Vessel 31	see #791
	798	2 body sherds (joined)	weight: 17.9 gr associated with Vessel 31	see #79 1
	799	2 body sherds ' (joined)	–weight: 115.1 gr –associated with Vessel 31	see #791
	800	13 body sherds	weight: 61.2 gr -associated with Vessel 31	see #79 1
	801	3 rim, 6 neck, 10 shoulder, 20 body sherds (joined)	weight: 2,197.1 gr -see vessel descriptions	Vessel 32
	802	2 neck-shoulder sherds (joined)	weight: 32.0 gr -SM exterior and interior surfaces -decoration: exterior-zone of RO CWS stamps over rows of HO CWS stamps; interior-undecoratedmeasurements: neck thickness-7.6 mm; shoulder thickness-7.5 mm	
	803	5 body sherds (joined)	–weight: 181.4 gr –SC exterior and SM (but pitted) interior surfaces	
	804	body sherd	-weight: 11.4 gr -SC exterior and SM interior surfaces	

Provenience	Cat#	Nature of Specimen	Description of Specimen	Comments
Feature 8 -NE quad (Iv 2) (continued)	805	body sherd	-weight: 32.8 gr -SC exterior and SM interior surfaces	
	806	body sherd	weight: 42.3 gr SC exterior and SM interior surfaces	
	807	body sherd	weight: 78.8 grSC exterior and SM interior surfaces; surface also covered with smoothed CWS stamps	
	808	2 body sherds	weight: 33.4 gr SC exterior and SM/WI interior surfaces	
	809	5 base sherds (joined)	-weight: 570.9 gr -SC exterior and SM interior surfaces; surface also covered with smoothed CWS stamps; semi-conical base	
	810	5 base sherds (joined)	-weight: 49.4 gr -SC exterior and SM interior surfaces; semi-conical base	
	811	9 body, base sherds (joined)	weight: 742.8 grSC exterior and SM interior surfaces; round base; two drilled holes (for mending?), approximately 50 mm apart	
	812	rim, 2 neck sherds (joined)	–weight: 40.5 gr –see vessel descriptions	Vessel 24
	813	fragmentary rim sherd	-weight: 8.2 gr -see vessel descriptions	-Vessel 59
	814	fragmentary rim sherd	-weight: 4.3 gr -details: SC exterior, and SM interior and lip surfaces; ? rim with flat lip -decoration: exterior-single band of short RO CWS [upper rim], over undecorated zone superimposed with CP [both on neck], over at least 2 rows of HO CWS stamps [upper shoulder-?]; interior-single band of RO CWS stamps [upper rim], over undecorated zone [neck-?] superimposed with BO [neck]; lip- single HO CWS stamps -measurements: lip thickness-7.6 mm; neck thickness-7.4 mm; upper rim thick- ness-14.7 mm	
	815	fragmentary rim - sherd -	-weight: 2.8 gr -details: SC exterior, and SM interior and lip surfaces; ? rim with flat lip -decoration: exterior-single band of RO CWS stamps [upper nim], over at least 1 row of HO CWS stamps [neck-?] super-imposed with CP [neck]; interior-single band of VE CWS stamps [upper rim], over undecorated zone [neck-?] superim-posed with BO [neck]; lip-VE CWS stamps -measurement: lip thickness-5.2 mm	
	815a	fragmentary rim sherd	-weight: 5.6 gr -details: SM exterior and intenor surfaces; ? rim with flat lip -decoration: exterior-single band of RO CWS stamps [upper nm], over undeter- mined zone [upper nm-?]; interior-single band of CC CWS stamps; lip-RO CWS stamps -measurement: lip thickness-7.9 mm	
	816	2 shoulder sherds	-weight: 26.5 gr -associated with Vessel 60	see #825

Provenience	Cat #	Nature of Specimen	Description of Specimen	Comments
Feature 8 -NE quad (Iv 2) (continued)	817	shoulder sherd	-weight: 4.8 gr -SC exterior and SM interior surfaces -decoration: exterior-rows of HO CWS stamps and a single band of RO CWS, over LO plats of short RO CWS stamps; interior-undecorated -measurement: shoulder thickness-4.3 mm	
	818	2 shoulder sherds (joined)	-weight: 8.4 gr -SM exterior and interior surfaces -decoration: exterior-partial band or rows of RO CWS stamps; interior- undecorated -measurement: shoulder thickness-8.7 mm	
	819	shoulder sherd	-weight: 4.7 gr -SC exterior and SM interior surfaces -decoration: exterior-LO plats of HO CWS stamps; interior-undecorated -measurement: shoulder thickness-5.5 mm	
	820	neck-shoulder sherd	weight: 4.8 grSM exterior and interior surfacesdecoration: exterior-LO plats of RO CWS dragged stamps; interior-undecoratedmeasurements: neck thickness-5.2 mm; shoulder thickness-6.0 mm	
	821	8 shoulder sherds (3 joined)	-weight: 116.3 gr -SM [decorative zone] over SC [body] exterior and SM interior surfaces -decoration: exterior-numerous rows of HO CWS stamps ove LO plats of RO CWS stamps, over undecorated zone; interior- undecorated -measurements: shoulder thickness-7.0 mm; body thickness-6.0 mm	
	822	2 shoulder sherds	-weight: 11.2 gr -SM exterior and interior surfaces -decoration: exterior-rows of OP (HO, VE and RO; triangular?) CWS stamps; interior-undecorated -measurement: shoulder thickness-5.9 mm	
	823	shoulder sherd	weight: 13.6 gr associated with Vessel 59	-see #813
	824	neck sherd	weight: 14.2 gr associated with Vessel 60	see #825
	825	fragmentary rim sherd	-weight: 6.5 gr see vessel descriptions	-Vessel 60
	826	50 body sherds	-weight: 550.7 gr -SC exterior and SM interior surfaces; 1 with carbon encrust.	
	827	26 body sherds	weight: 231.4 gr CM exterior and SM interior surfaces; 2 with carbon encrust.	
	828	3 body sherds	-weight: 21.1 gr -SC exterior and interior surfaces; 1 with carbon encrust.	
	829	3 body sherds	-weight: 35.3 gr -SM exterior and interior surfaces	
	830	base sherd	-weight: 97.4 gr -SC exterior and SM interior surfaces; round base -measurement: base thickness-9.4 mm	
	831	fragmentary sherds	-weight: 970.5 gr -CM, SC and SM surfaces; many sherds with CWS stamps and CP, etc.	

Provenience	Cat #	Nature of Specimen	Description of Specimen	Comments
Feature 8 -NE quad (lv 2)	1236	pipe fragment	-weight: 4.8 gr -pipe stem fragment; see pipe descriptions	
(continued)	1237	pipe fragment	-weight: 1.3 gr -pipe bowl fragment; see pipe descriptions	
	1238	pipe fragment	weight: 1.0 gr pipe bowl fragment; see pipe descriptions	
-NE quad (Iv 4)	832	shoulder sherd	weight: 7.8 grSM exterior and interior surfacesdecoration: exterior-rows of RO CWS stamps; interior-undecoratedmeasurement: shoulder thickness-7.3 mm	
	832a	rim sherd	weight: 43.5 gr joined to Vessel 15	see #762
	832b	neck sherd	weight: n/a joined to Vessel 32	-see #801
	833	fragmentary sherds	-weight: 24.9 gr -SC and SM surfaces	
-NE quad (lv 5)	834	body sherd	-weight: 18.6 gr -CM exterior and SM interior surfaces	
–NW quad (lv 1)	835	fragmentary rim sherd	-weight: 10.3 gr -SM exterior, interior and lip surfaces; slightly out-flaring rim with flat lip -decoration: exterior- single band of RO CWS stamps [upper nm] superimposed with a single band of short RO CWS stamps [just below lip edge], over an undeter-mined zone; interior-single band of slightly RO CWS stamps [upper nm] super-imposed with a band of very short RO CWS stamps [lip juncture], over a band of RO CWS stamps [neck-?]; lip-RO CWS stamps -measurements: lip thickness-7.5 mm; neck thickness-7.8 mm; upper collar height-14.2 mm	
	836	3 body sherds	-weight: 23.1 gr SC exterior and SM interior surfaces	
	837	body sherd	weight: 5.1 gr SM exterior and interior surfaces	
	838	fragmentary sherds	-weight: 34.4 gr -CM, SC and SM surfaces; several with CWS stamps	
-NW quad (Iv 2)	839	rim and 2 shoulder sherds (joined)	-weight: 59.3 gr -see vessel descriptions	Vessel 14
	840	rim and 2 shoulder sherds	weight: n/a joined to Vessel 15	see #832a
	841	2 rim-neck, 2 shoulder sherds	-weight: n/a -joined to Vessel 15	see #762
	842	3 rim, 3 neck, 3 shoulder sherds	weight: n/a joined to Vessel 15	see #763
	843	8 shoulder sherds	-weight: 67.0 gr -associated with Vessel 15	see #762
	844	shoulder sherd	–weight: n/a –associated with Vessel 15	see #769

Provenience	Cat #	Nature of Specimen	Description of Specimen	Comments
Feature 8NW quad (iv 2)	845	shoulder sherd	-weight: n/a -associated with Vessel 15	-see #768
(continued)	846	shoulder sherd	-weight: n/a -associated with Vessel 15	see #765
	847	shoulder sherd	-weight: n/a -associated with Vessel 15	see #764
	848	2 shoulder sherds	-weight: 32.4 gr -associated with Vessel 15	see #762
	849	3 shoulder sherds	weight: n/a associated with Vessel 15	see #766
	850	9 shoulder sherds	-weight: 28.6 gr -associated with Vessel 16	see #762
	851	rim sherd	-weight: n/a -joined to Vessel 16	see #771
	852	shoulder sherd	weight: n/a associated with Vessel 16	see #771
	853	2 rim sherds	-weight: 17.3 gr -associated with Vessel 16	see #771
	854	3 shoulder sherds	weight: n/a joined to Vessel 17	see #778
	855	2 body sherds	-weight: n/aassociated with Vessel 17	-see #781
	856	body sherd	-weight: n/a -associated with Vessel 17	see #780
	857	body sherd	weight: n/a associated with Vessel 17	see #779
	858	body sherd	weight: 25.9 gr associated with Vessel 17	see #778
	859 860	rim sherd .	weight: n/a joined to Vessel 18	see #785
		rim sherd	-weight: n/ a -joined to Vessel 14	see #786
	861	shoulder sherd	-weight: n/a -associated with Vessel 14	see #786
	862	shoulder sherd	-weight: 62.4 gr -associated with Vessel 14	-see #786
	863	neck sherd	-weight: 14.6 gr -see vessel descriptions	Vessel 20
	864	rim sherd	-weight: 22.3 gr -see vessel descriptions	Vessel 27
	865	rim, 4 shoulder sherds	-weight: n/a -joined to Vessel 31	see #793

Provenience	Cat#	Nature of Specimen	Description of Specimen	Comments
Feature 8 -NW quad (lv 2) (continued)	866	rim sherd	weight: n/a joined to Vessel 31	see #791
(commueu)	867	3 body sherds	-weight: n/a -associated with Vessel 31	see #799
	868	4 body sherds	weight: n/aassociated with Vessel 31	see #795
	869	2 body sherds	-weight: n/a -associated with Vessel 31	see #796
	870	2 body sherds	-weight: 4.4 gr -associated with Vessel 31	see #791
	871	2 rim, 2 neck, 5 shoulder, 5 body sherds (joined)	-weight: n/a -joined to Vessel 32	see #801
	872	2 neck sherds	-weight: n/a	-see #802
	873	2 base sherds	-weight: 532.7 gr -SC extenor and SM interior surfaces; semi-conical base -measurements: body thickness-10.5 mm; base thickness-18.8 mm	
	874	base sherd	-weight: 366.4 gr -SC exterior and SM interior surfaces; round base -measurement: base thickness-18.8 mm	
	875	13 base sherds (joined)	-weight: n/a	see #809
	876	base sherd	-weight: 206.0 gr -SC exterior and SM interior surfaces; semi-conical base -measurement: body thickness-7.4 mm; base thickness-20.5 mm	
	877	2 base sherds	-weight: n/a -joined to basal portion	-see #810
	878	base sherd	-weight: 63.2 gr -SC exterior and SM interior surfaces; round base -measurements: body thickness-7.4 mm; base thickness-11.0 mm	
	879	7 base sherds	-weight: n/a -joined to basal portion	-see #811
	880	body sherd	–weight: n/a –joined to basal portion	-see #803
	881	body sherd	–weight: n/a –joined to basal portion	-see #805
	882	body sherd	–weight: 81.3 gr –SC exterior and SM interior surfaces	
	883	body sherd	-weight: n/a -joined to basal portion	-see #806
	884	body sherd	-weight: n/a -joined to basal portion	-see #807
Ī	885	body sherd	-weight: n/a -joined to basal portion	- s ee #808

Provenlence	Cat#	Nature of Specimen	Description of Specimen	Comments
Feature 8 -NW quad (Iv 2)	886	fragmentary rim sherd	-weight: 5.7 gr -see vessel descriptions	–Vessel 61
(continued)	887	fragmentary rim sherd	weight: 3.4 gr see vessel descriptions	-Vessel 66
	888	fragmentary rim sherd	-weight: 2.8 gr -details: SC exterior, interior and lip surfaces; ? nm with round lip with incipient pointed castellation -decoration: exteriorVE incised lines or combing [upper rim-?]; interior- single band of RO CWS stamps [upper rim-?]; lip-VE CWS stamps -measurements: lip thickness-4.3 mm; neck thickness-4.4 mm; upper rim height-6.3 mm	
	889	3 neck-shoulder sherds (joined)	-weight: 19.0 gr -associated with Vessel 66	-see #887
	890	2 neck-shoulder sherds	-weight: 32.4 gr -associated with Vessel 66	-see #887
	891	2 neck sherds (joined)	-weight: 25.5 gr -associated with Vessel 59	-see #813
	892	shoulder sherd	-weight: 33.9 gr -SM exterior and interior surfaces -decoration: exterior-LO plats of HO CWS stamps; interior-undecorated -measurement: shoulder thickness-11.4 mm	
	893	shoulder sherd	weight: 10.8 grSM exterior and interior surfacesdecoration: exteriorLO plats of RO linear PU; interiorundecoratedmeasurement: shoulder thickness7.8 mm	
	894	shoulder sherd	-weight: 9.1 gr -associated with Vessel 66	-see #887
	895	shoulder sherd	weight: 8.6 gr associated with Vessel 66	-see #887
	896	shoulder sherd	-weight: 8.4 gr -SM exterior and interior surfaces -decoration: exterior-rows of HO CWS stamps; interior-undecorated -measurement: shoulder thickness-10.1 mm	
	897	shoulder sherd	-weight: 18.7 gr -associated with Vessel 59	-see #813
	898	neck-shoulder sherd	-weight: 21.5 gr -SC exterior and interior surfaces -decoration: exterior-tightly LO plats of HO CWS stamps over band of widely-spaced RO plats of HO CWS stamps, over undecorated zone [body]; interior- undecorated -measurement: neck thickness-9.4 mm; shoulder thickness-9.0 mm	
	899	shoulder sherd	-weight: 5.1 gr -SM exterior and interior surfaces -decoration: exterior-tight LO plats of HO CWS stamps; interior-undecorated -measurement: shoulder thickness-6.1 mm	
	900	shoulder sherd	-weight: 4.6 gr -associated with Vessel 61	-see 886

Provenience	Cat#	Nature of Specimen	Description of Specimen	Comments
Feature 8NW quad (Iv 2) (continued)	901	2 base sherds	-weight: 63.5 gr -SC exterior and SM interior surfaces; semi-conical base -measurement: base thickness-14.5 mm	
	902	2 base sherds	-weight: 22.5 gr -SC exterior and SM interior surfaces; semi-conical base -measurement: base thickness-8.5 mm	
	903	3 base sherds	-weight: 23.5 gr -SC exterior and SM interior surfaces; semi-conical base -measurement: base thickness-13.3 mm	
	904	base sherd	-weight: 23.5 gr -SC exterior and SM interior surfaces; semi-conical base -measurement: base thickness-14.0 mm	
	905	66 body sherds	-weight: 956.1 gr -SC exterior and SM interior surfaces; 4 with carbon encrust.	
	906	17 body sherds	-weight: 167.3 gr -CM exterior and SM interior surfaces; 3 with carbon encrust.	
	907	2 body sherds	-weight: 14.7 gr -SM exterior and interior surfaces	
	908	fragmentary sherds	-weight: 694.1grCM, SC and SM surfaces; many sherds with CWS stamps and/or CP; several possible coil breaks	
	1239	pipe fragment	-weight: 5.6 gr -pipe stem fragment; see pipe descriptions	
	1240	pipe fragment	-weight: 1.0 gr -pipe stem fragment; see pipe descriptions	
Feature 8 SE quad	909	rim sherd	weight: n/a joined to Vessel 15	-see #832a
	910	shoulder sherd	-weight: n/a -associated with Vessel 15	-see #764
	911	6 shoulder sherds	–weight: n/a –associated with Vessel 15	-see #765
	912	2 shoulder sherds	weight: n/a joined to Vessel 16	-see #771
	913	fragmentary sherds	weight: 6.5 gr associated with Vessel 16	see #771
	914	3 fragmentary rim sherds	weight: 45.7 gr associated with Vessel 16	-see #771
1	915	13 shoulder sherds	–weight: 105.4 gr –associated with Vessel 16	see #771
	916	fragmentary sherds	weight: 27.2 gr associated with Vessel 16	-s e e #771
	917	rim and neck sherd	weight: n/a associated with Vessel 16	-see #772

Provenience	Cat#	Nature of Specimen	Description of Specimen	Comments
Feature 8 —SE quad	918	rim sherd	-weight: n/a -associated with Vessel 16	-see #773
(continued)	919	shoulder sherd	-weight: n/a -associated with Vessel 16	-see #775
	920	shoulder sherd	-weight: 10.1 gr -associated with Vessel 16	-see #771
	921	shoulder sherd	-weight: n/a -associated with Vessel 16	-see #776
	922	neck sherd	-weight: n/a -associated with Vessel 16	-see #774
	923	shoulder sherd	-weight: n/a -associated with Vessel 16	-see #852
	924	shoulder sherd	weight: 10.8 gr associated with Vessel 16	-see #771
	925	rim sherd	-weight: n/a joined to Vessel 19	see #861
	926	rim sherd	-weight: n/a -joined to Vessel 20	-see #863
	927	rim sherd	-weight: 6.2 gr see vessel descriptions	-Vessel 28
	928	2 rim sherds	-weight: 26.6 gr -see vessel descriptions	-Vessel 29
	929	rim sherd	-weight: 74.7 gr see vessel descriptions	-Vessel 30
	930	3 body sherds	-weight: n/a -joined to Vessel 31	-see #792
	931	shoulder sherd	-weight: n/a joined to Vessel 31	-see #793
	932	2 body sherds .	-weight: n/a -associated with Vessel 31	-see #796
	933	body sherd	weight: n/a associated with Vessel 31	-see #795
	934	body sherd	weight: n/a −associated with Vessel 31	-see #798
	935	body sherd	-weight: 7.2 gr -associated with Vessel 31	-see #791
	936	1 rim, 3 shoulder, 5 body sherds (all joined)	-weight: n/a -joined to Vessel 32	-see #801
	937	3 shoulder sherds (joined)	weight: 25.2 grCM [decorative zone] over CM [body] exterior and SM interior surfacesdecoration: exteriorVE plats of short HO CWS stamps, over undecorated zone; interior-undecoratedmeasurements: shoulder thickness6.7 mm; body thickness3.9 mm	

Provenience	Cat#	Nature of Specimen	Description of Specimen	Comments
Feature 8 —SE quad	938	2 base sherds (joined)	-weight: n/a -joined to basal portion	see #874
(continued)	939	base sherd	weight: n/a joined to basal portion	see #809
	940	6 base sherds	-weight: n/a -joined to basal portion	-see #876
	941	body sherd (joined)	-weight: n/a -joined to basal portion	-see #803
	942	body sherd (joined)	weight: n/a joined to basal portion	-see #804
	943	body sherd (joined)	weight: 3.6 grSC exterior and SM interior surfaces	
	944	2 body sherds (joined)	weight: 38.1 gr SC exterior and SM interior surfaces	
	945	body sherd (joined)	-weight: n/a	-see #807
	946	2 fragmentary rim sherds (joined)	weight: 12.6 gr associated with Vessel 18	-see #785
	947	neck sherd	-weight: 15.0 gr -SM exterior and interior surfaces -decoration: exterior-rows of HO CWS stamps over LO plats of short RO CWS stamps; interior-undecorated -measurements: neck thickness-6.7 mm; shoulder thickness-5.5 mm	
	948	neck sherd	-weight: 8.6 gr -SM exterior and interior surfaces -decoration: exterior-rows of HO CWS stamps superimposed with CP; interior-undecorated except for BO -measurement: shoulder thickness-8.0 mm	
	949	neck sherd	weight: 15.0 gr associated with Vessel 18	-see #785
	950	2 shoulder sherds (joined)	-weight: 16.8 gr -SM [decorative zone] over SC [body] exterior and SM interior surfaces -decoration: exterior-band of RO CWS stamps, over undecorated zone [body]; interior-undecorated -measurements: shoulder thickness-6.1 mm; body thickness-6.0 mm	
	951	shoulder sherd	 -weight: 12.5 gr -SM exterior and interior surfaces -decoration: exterior-RO plats of LO CWS dragged stamps; interior-undecorated -measurement: shoulder thickness-9.7 mm 	
	952	fragmentary rim sherd	-weight: 5.5 gr -details: SM exterior, interior and lip surfaces; ? rim with flat lip -decoration: exterior-single band of CC CWS stamps [upper rim], over at least 1 row of HO CWS stamps [neck-?]; interior- band of RO CWS stamps [upper rim] over undecorated zone [neck-?]: lip-short RO CWS stamps (or PU) on interior lip edge -measurements: lip thickness-8.5 mm; neck thickness-8.2 mm; upper rim height- n/a	

Provenience	Cat #	Nature of Specimen	Description of Specimen	Comments
Feature 8 -SE quad (continued)	953	fragmentary rim sherd	-weight: 7.1 gr -details: SM exterior, interior and lip surfaces; ? rim with flat lip -decoration: exterior-single band of short RO linear (turtle suture?) stamps [upper rim], over undetermined zone [neck-?]; interior-single band of CC linear (turtle suture?) stamps [upper rim], over undecorated zone [neck-?]; lip-RO linear (turtle suture) stamps -measurements: lip thickness-8.4 mm; neck thickness-8.3 mm; upper rim height-14.9 mm	
	954	3 neck sherds (joined)	-weight: 11.9 gr -SM exterior and interior surfaces; exterior has carbon encrustdecoration: exterior-zone of tightly spaced LO plats of HO CWS stamps; interior-undecorated -measurement: neck thickness-7.5 mm	
	955	shoulder sherd	weight: 16.2 grCM exterior and SM interior surfacesdecoration: exterior-at least 1 band of VE CWS stamps over a band of RO CWS stamps over undecorated zone; interior- undecoratedmeasurement: shoulder thickness-8.5 mm	
	956	shoulder sherd	weight: 6.0 gr -associated with Vessel 18	-see #785
	957	4 shoulder sherds (joined)	weight: 11.8 grSC exterior and SM interior surfacesdecoration: exterior-basal portion of band of RO CWS stamps, over undecorated zone [body]; interior-undecoratedmeasurement: shoulder thickness-6.7 mm	-see #950
	958	neck sherd	-weight: 12.6 gr -SM exterior and interior surfaces -decoration: exterior-rows of HO CWS stamps; interior- undecorated -measurement: neck thickness-7.8 mm	
	959	neck sherd	-weight: 7.7 gr -SM extenor and interior surfaces -decoration: exterior-rows of HO CWS stamps over zone of OP (RO/HO) CWS stamps; interior-undecorated -measurements: neck thickness-7.2 mm; shoulder thickness-6.1 mm	
	960	fragmentary rim sherd -	weight: 4.7 grdetails: sloughed exterior, SM interior and lip surfaces; ? rim with flat lipdecoration: exterior-undetermined [upper rim-?]; interior-band of CC CWS stamps [upper rim-neck] over undecorated zone [upper shoulder-?]; lip- undeter-minedmeasurements: lip thickness-6.5 mm; neck thickness-n/a; upper rim height-19.7 mm	
	961	63 body sherds	-weight: 676.6 gr -SC exterior and SM interior surfaces; 1 coil break; 5 have carbon encrustation	
	962	11 body sherds	-weight: 79.4 gr -CM exterior and SM interior surfaces	
	963	body sherd	-weight: 16.2 gr -SC exterior and CM interior surfaces	
	964	3 body sherds (joined)	-weight: 20.1 gr SC/WI exterior and SM interior surfaces	
	965	3 body sherds	-weight: 56.9 gr -SM exterior and interior surfaces	

Provenience	Cat#	Nature of Specimen	Description of Specimen	Comments
Feature 8 -SE quad (continued)	966	4 base sherds	-weight: 95.5 gr -SC exterior and SM interior surfaces; semi-conical base -measurements: body thickness-7.6 mm; base thick-ness-13.8 mm	
	967	base sherd	-weight: 13.2 gr -SC exterior and SM interior surfaces; unknown type -measurement: base thickness-14.1 mm	
	968	5 base sherds (joined)	weight: 34.7 grSC exterior and SM interior surfaces; round basemeasurements: body thickness9.3 mm; base thick-ness13.8 mm	
	969	fragmentary sherds	weight: 682.8 gr CM, SC and SM surfaces; many with CWS stamps and/ or CP; several coil breaks	
	1241	pipe fragment	weight: n/a joined to pipe bowl	-see #1235
-SW quad	970	2 rim sherds	weight: n/a joined to Vessel 15	-see #832a
	971	shoulder sherd	-weight: n/a -associated with Vessel 15	-see #764
	972	2 shoulder sherds	-weight: n/a -associated with Vessel 15	-see #843
	973	shoulder sherd	–weight: n/a –associated with Vessel 15	-see #848
	974	shoulder sherd	–weight: n/a –associated with Vessel 16	-see #775
	975	shoulder sherd	–weight: n/a –associated with Vessel 16	—see #920
	976	shoulder sherd	–weight: n/a –associated with Vessel 16	-see #924
	977	14 shoulder sherds	-weight: 79.0 gr -associated with Vessel 16	-see #771
	978	4 rim, neck, 6 shoulder sherds (joined)	–weight: n/a –joined to Vessel 17	see #778
	979	2 base sherds (joined)	-weight: n/a -associated with Vessel 17	-see #779
	980	base sherd	–weight: n/a –associated with Vessel 17; semi-conical base	-see #780
	981	3 body sherds (2 joined)	-weight: 24.9 gr -associated with Vessel 17	-see #771
	982	2 rim, neck, 2 shoulder sherds (joined)	-weight: n/a -joined to Vessel 14	-see #786
	983	2 rim sherds (joined)	weight: n/a -associated with Vessel 14	-see #861

Provenience	Cat#	Nature of Specimen	Description of Specimen	Comments
Feature 8 -SW quad (continued)	984	rim and neck sherds (joined)	-weight: n/a -joined to Vessel 20	-see #863
	985	body sherd	weight: n/a joined to Vessel 31	-see #793
	986	body sherd	weight: n/a associated with Vessel 31	-see #795
	987	body sherd	weight: n/a associated with Vessel 31	-see #796
	988	3 neck sherds (joined)	-weight: n/a	-see #937
	989	2 base sherds (joined)	weight: n/a	-see #873
	990	2 base sherds (joined)	weight: n/a	see #874
	991	2 base sherds (joined)	weight: n/a	-see #876
	992	4 base sherds (joined)	-weight: n/a	-see #878
	993	body sherd (joined)	-weight: n/a	-see #803
	994	body sherd (joined)	weight: n/a	-see #882
	995	body sherd (joined)	-weight: n/a	-see #943
	996	body sherd (joined)	–weight: n/a	-see #944
	997	shoulder sherd	weight: 7.3 grSM exterior and interior surfacesdecoration: exteriorrows of HO CWS stamps alternating with at least 1 band of RO CWS stamps; interiorundecoratedmeasurement: shoulder thickness-6.0 mm	
	998	shoulder sherd .	weight: 10.4 grSM exterior and interior surfacesdecoration: exterior-rows of HO CWS stamps over bands of RO CWS stamps; interior-undecoratedmeasurement: shoulder thickness-8.6 mm	
	999	shoulder sherd	-weight: 5.6 gr -SC exterior and SM interior surfaces -decoration: exterior-LO plats of RO CWS stamps; interior-undecorated -measurement: shoulder thickness-8.3 mm	
	1000	shoulder sherd	-weight: 4.7 gr -SC exterior and SM interior surfaces -decoration: exterior-rows of HO CWS stamps over a single band of short RO CWS stamps, over undecorated zone [body]; interior-undecorated -measurement: shoulder thickness-5.7 mm	
	1001	shoulder sherd	-weight: 4.6 gr -SC exterior and SM interior surfaces -decoration: exterior-RO plats of short LO CWS stamps; interior-undecorated -measurement: shoulder thickness-6.7 mm	

Provenience	Cat#	Nature of Specimen	Description of Specimen	Comments
Feature 8 -SW quad (continued)	1002	30 body sherds	-weight: 332.4 gr -SC exterior and SM interior (with 3 also wiped) surfaces; 5 with carbon encrustation	
	1003	14 body sherds	-weight: 96.3 gr -CM exterior and SM interior (with 2 also wiped surfaces	
	1004	fragmentary sherds	-weight: 338.3 gr CM, SC and SM surfaces; many with CWS stamps, and several with CP	
–ploughzone & feature interface	1005	fragmentary sherds	weight: 13.4 gr SC and SM surfaces	
Feature 9	1006	fragmentary sherds	-weight: 2.7 gr -sloughed surfaces	
Feature 10	1007	fragmentary sherds	-weight: 12.6 gr -SC and SM surfaces; 1 has CWS stamps	
Feature 11	1008	rim sherd	-weight: 12.9 gr -see vessel descriptions	-Vessel 33
	1009	2 body sherds	-weight: 52.8 gr -CM exterior and SM interior surfaces	
	1010	fragmentary sherds	-weight: 19.0 gr -CM and SM surfaces	
Feature 12	1011	fragmentary sherds	-weight: 5.6 gr -SC and SM surfaces	
Feature 13	1012	fragmentary sherds	weight: 0.7 gr sloughed surfaces	
Feature 14	1013	fragmentary sherds	-weight: 6.9 gr -SC and SM surfaces	
Feature 17	1014	fragmentary rim sherd	-weight: 2.7 gr -details: SM exterior, interior and lip surfaces; ? rim with flat lip -decoration: exterior-partial band of RO CWS stamps; interior-undetermined; lip-VE CWS stamps (and some wiping) -measurement: lip thickness-8.5 mm	
	1015	fragmentary sherd	–weight: 1.2 gr –SC exterior and SM interior surfaces	
Feature 18	1016	body sherd	-weight: 8.8 gr -SC exterior and SM interior surfaces	
	1017	fragmentary sherds	–weight: 23.6 gr –SC and SM surfaces	
Feature 27	1018	fragmentary sherd	-weight: 1.5 gr -SC and SM surfaces	
Feature 29	1019	fragmentary sherd	-weight: 2.2 gr -CM and SM surfaces; coil break	
Feature 30 (fill)	1020	fragmentary rim sherd	-weight: 6.6 gr -see vessel descriptions	-Vessel 62
	1021	2 shoulder sherds	-weight: 35.5 gr -associated with Vessel 62	-see #1020

Provenience	Cat#	Nature of Specimen	Description of Specimen	Comments
	1022	3 shoulder sherds	-weight: 16.8 gr -SM exterior and sloughed interior surfaces -decoration: exterior-rows of HO CWS stamps; interior-undetermined -measurement: shoulder thickness-n/a	
	1023	shoulder sherd	-weight: 7.1 gr -SM exterior and interior surfaces -decoration: exterior-OP (RO/HO) CWS stamps; interior-undecorated -measurement: shoulder thickness-8.7 mm	
	1024	shoulder sherd	weight: 8.9 grSM exterior and sloughed interior surfacesdecoration: exteriorrows of LO CWS stamps; interiorundeterminedmeasurement: shoulder thicknessn/a	
	1025	14 body sherds	–weight: 135.4 gr –SC exterior and SM interior surfaces	
	1026	fragmentary sherds	-weight: 224.7 gr -SC exterior and SM interior surfaces	
-north ⅓ (fill)	1027	4 body sherds	weight: 46.1 gr SC exterior and SM interior surfaces	
	1028	fragmentary sherds	-weight: 44.9 gr -SC and SM surfaces	
	1250	pipe fragment	-weight: 3.8 grpipe bowl fragments; see pipe descriptions	
Feature 30b (fill)	1029	juvenile vessel fragment	-weight: 20.8 gr -see vessel descriptions	
	1030	fragmentary sherds	weight: 19.9 gr SC and SM surfaces; several sherds have CWS stamps	
Feature 34 (fill)	1031	shoulder sherd	weight: 12.0 grCM exterior and combed interior surfacesdecoration: exteriorzone of RO CWS stamps bordered by partial LO plat, over rows of HO CWS stamps; interior undecoratedmeasurements: neck thickness5.3 mm; shoulder thickness5.0 mm	
	1032	2 shoulder sherds ' (joined)	 -weight: 3.9 gr -CM exterior and SM interior surfaces -decoration: exterior-RO plats of LO CWS stamps, over undecorated zone; interior-undecorated -measurements: shoulder thickness-5.3 mm 	
	1033	fragmentary sherd	weight: 2.2 gr SC and SM surfaces	
Feature 38 (fill)	1034	neck-shoulder sherd	-weight: 11.1 gr -SM exterior and interior surfaces -decoration: exterior-rows of HO CWS stamps; interiorundecorated -measurements: neck thickness-5.8 mm; shoulder thickness-6.7 mm	
Feature 42 (fill)	1035	4 fragmentary rim sherds	-weight: 13.2 gr -details: SM exterior and interior surfaces; ? rim with flat lip -decoration: exterior-single band of RO CWS stamps [upper rim], over undetermined zone [neck-?]; interior single band of slightly RO CWS stamps; lip- LO CWS stamps -measurement: lip thickness-12.5 mm; neck thickness n/a; upper rim height-16.4 mm	

Provenience	Cat#	Nature of Specimen	Description of Specimen .	Comments
	1036	shoulder sherd	-weight: 4.8 gr -SM [decorative zone] over SC [body] exterior, and SM interior surfaces -decoration: exterior-basal portion of band of RO CWS stamps, over undecorated zone [body]; interior-undecorated -measurement: shoulder thickness-7.1 mm	
	1037	body sherd	-weight: 13.4 gr CM exterior and SM (pitted) interior surfaces	
	1038	fragmentary sherds	-weight: 31.3 gr -SC and SM surfaces; several with CWS stamps	
Feature 44	1039	shoulder sherd	-weight: 4.3 grCM exterior and SM interior surfacesdecoration: exterior-rows of RO CWS stamps; interiorundecoratedmeasurement: shoulder thickness5.8 mm	
	1040	body sherd	-weight: 14.8 gr -CM exterior and SM interior surfaces	
	1041	2 base sherds	-weight: 62.4 gr -SC exterior and SM interior surfaces; round base -measurements: body thickness-11.8 mm; base thickness-13.9 mm	
Feature 47 (fill)	1042	fragmentary sherds	-weight: 11.9 gr -SC and SM surfaces; several with CWS stamps	
Feature 48 (fill)	1043	neck-shoulder sherd	-weight: 9.3 gr -SM [decorative zone] over SC [body] exterior, SM interior surfaces -decoration: exterior-LO plats of HO CWS stamps, over undecorated zone; interior-undecorated -measurements: neck thickness-7.1 mm; shoulder thickness-6.5 mm; body thickness-4.0 mm	
	1044	neck-shoulder sherd	-weight: 6.5 gr -SM [decorative zone] over SC [body] exterior, SM interior surfaces -decoration: exterior-undecorated [shoulder], over undecorated [body]; interior- undecorated -measurements: neck thickness-5.2 mm; shoulder thickness-5.6 mm; body thickness-7.4 mm	
	1045	neck-shoulder sherd	weight: 4.3 grSC exterior and SM interior surfacesdecoration: exteriorrows of HO CWS stamps; interior undecoratedmeasurement: shoulder thickness7.0 mm	
	1046	shoulder sherd	weight: 5.1 grSM [decorative zone] over SC [body] exterior, and and SM interior surfacesdecoration: exteriorLO plats of HO CWS stamps, over undecorated zone [body]; interiorundecoratedmeasurement: shoulder thickness7.1 mm	
Feature 48 (fill) (continued)	1047	shoulder sherd	-weight: 3.7 gr -SM exterior and SM (roughened) interior surfaces -decoration: exterior-rows of HO CWS stamps; interiorundecorated -measurement: shoulder thickness-5.7 mm	
	1048	3 body sherds	weight: 40.4 gr SC exterior and SM interior surfaces	
	1049	fragmentary sherds	-weight: 223.9 gr -CM, SC and SM surfaces; many with CWS stamps, a few have CP, and 1 has incised lines	

Provenience	Cat#	Nature of Specimen	Description of Specimen	Comments
Feature 49 (fill)	1050	2 body sherds	weight: 8.8 gr CM exte rio r and SM interior surfaces	
	1051	fragmentary sherds	-weight: 23.1 gr -CM, SC and SM surfaces; 1 has CWS stamps	
Feature 50 (fill)	1052	shoulder sherd	-weight: 6.1 gr -SC exterior and SM interior surfaces -decoration: exterior-basal portion of band of RO CWS stamps, over undecorated zone [body]; interior-undecorated	
	1053	fragmentary sherds	-weight: 8.3 gr -SC and SM surfaces	
Feature 51 (fill)	1054	neck-shoulder sherd	weight: 5.6 grSM exterior and interior surfacesdecoration: exterior-rows of HO CWS stamps over zone of OP (LO/RO) triangular CWS stamps; interior-undecoratedmeasurements: neck thickness-6.3 mm; shoulder thickness-5.8 mm	
	1055	shoulder sherd	weight: 4.1 grCM exterior and SM interior surfacesdecoration: exterior-LO plats of RO CWS stamps, over undecorated zone [body]; interiorundecoratedmeasurement: shoulder thickness6.1 mm	
	1056	body sherd	–weight: 9.1 gr –SC exterior and SM interior surfaces	
	1057	base sherd	-weight: 5.6 gr -SM exterior and interior surfaces; round base -measurement: base thickness-6.1 mm	
	1058	fragmentary sherds	-weight: 35.7 gr -CM, SC and SM surfaces; many with CWS stamps	
Feature 52 (fill)	1059	fragmentary rim sherd	-weight: 5.5 gr -details: SM exterior, interior and lip surfaces; ? rim with flat lip -decoration: exterior-single band of RO CWS stamps [upper rim], over at least 1 row of HO CWS [neck-?] superimposed with CP [neck]; interior-RO CWS stamps [upper rim], over undecorated zone [neck-?] with superimposed BO [neck]; lip-VE CWS stamps -measurements: lip thickness-7.1 mm; neck thickness-7.8 mm	
	1060	2 shoulder sherds	-weight: 10.3 gr -CM [decorative zone] over CM [body] exterior and SM interior surfaces -decoration: exterior-LO plats of short HO CWS stamps, over undecorated zone [body]; interior-undecorated -measurements: shoulder thickness-3.9 mm; body thickness-4.0 mm	

Provenience	Cat#	Nature of Specimen	Description of Specimen	Comments
Feature 52 (fill) (continued)	1061	2 body sherds	-weight: 12.8 gr -CM exterior and SM interior surfaces	
	1062	3 body sherds	-weight: 34.7 gr -SC exterior and SM interior surfaces	
	1063	base sherd	-weight: 15.4 gr -CM exterior and SM interior surfaces; semi-conical base -measurement: base thickness14.5 mm	
	1064	fragmentary sherds	-weight: 94.3 gr -CM, SC and SM surfaces; a few have CWS stamps	
	1242	pipe fragment	-weight: 11.5 gr -partially reconsstructed pipe bowl fragments; see pipe descriptions	
Feature 53 (fill)	1065	neck-shoulder sherd	-weight: 3.1 gr -CM exterior and SM interior surfaces -decoration: exterior-rows of HO CWS stamps superimposed with CP; interior-undecorated -measurements: neck thickness-3.6 mm; shoulder thickness-3.2 mm	
	1066	neck-shoulder sherd	-weight: 7.0 gr -SM exterior and interior surfaces -decoration: exterior-rows of HO CWS stamps; interior-undecorated -measurement: shoulder thickness-5.9 mm	
	1067	4 body sherds	weight: 44.2 gr SC exterior and SM interior surfaces	
	1068	base sherd	-weight: 5.0 grSC exterior and SM interior surfaces; semi-conical base -measurement: base thickness-8.0 mm	
	1069	fragmentary sherds	weight: 53.0 gr CM, SC and SM surfaces; several have CWS stamps	
Feature 54 (fill)!	1070	fragmentary sherd	-weight: 0.4 gr SC surface	
Feature 57 (fill)	1071	2 body sherds	-weight: 10.0 gr -CM exterior and SM interior surfaces	
	1072	body sherd	-weight: 4.8 gr -SC exterior and SM interior surfaces	
	1073	fragmentary sherds	-weight: 6.6 gr -CM, SC and SM surfaces	
Feature 60 (fill)	1074	body sherd	-weight: 3.8 gr -CM exterior and interior surfaces	
Feature 63 (fill)	1075	body sherd	-weight: 4.4 gr -SC exterior and SM interior surfaces	
	1076	fragmentary sherds	-weight: 4.8 gr -SC and SM surfaces	
Feature 65 (fill)	1077	shoulder sherd	-weight: 3.7 gr -SM exterior and interior surfaces -decoration: exterior-LO plats of HO CWS stamps; interior-undecorated -measurement: shoulder thickness-6.4 mm	

Provenience	Cat#	Nature of Specimen	Description of Specimen	Comments
	1078	shoulder sherd	 -weight: 5.3 gr -SM exterior and interior surfaces -decoration: exterior-RO plats of LO CWS stamps; interior-undecorated -measurement: shoulder thickness-8.1 mm 	
Feature 67 (fill)	1078a	fragmentary sherds	-weight: 3.7 gr -SM surfaces; both have traces of CWS stamps	
Feature 68 -north ½ (fill)	1079	rim and neck sherd (joined)	-weight: 40.2 gr -see vessel descriptions	-Vessel 34
	1080	fragmentary rim, neck, 7 shoulder sherds (none are joined)	weight: 101.3 gr see vessel descriptions	Vessel 35
	1081	fragmentary rim sherd	-weight: 5.9 gr -details: SM exterior and lip, sloughed interior surfaces; vertical rim with slightly round lip -decoration: exterior-single band of widely-spaced RO CWS stamps [upper rimneck], over at least 1 row of HO CWS stamps [upper shoulder-?]; interior- undetermined [upper nim-?]; lip-RO CWS stamps -measurements: lip thickness-8.5 mm; neck thickness-n/a; upper nim height-15.0 mm	
	1082	2 fragmentary rim, neck, 3 shoulder sherds	-weight: 32.2 gr -see vessel descriptions	Vessel 36
	1083	fragmentary rim sherd	-weight: 6.6 gr -details: SM exterior, interior and lip surfaces; out-flaring rim with flat lip -decoration: exteriorsingle band of RO CWS stamps [upper rim], over at least 1 row of HO CWS stamps [neck-?] super-imposed with CP [neck]; interior-single band of CC (RO/LO) CWS stamps [upper rim], over undecorated zone [neck-?] superimposed with BO [neck]; lip-HO CWS stamps over short RO CWS stamps -measurements: lip thickness-8.4 mm; neck thickness-6.8 mm; upper rim height-9.8 mm	
	1084	rim sherd	-weight: 12.1 gr -see vessel descriptions	-Vessel 37
	1085	2 fragmentary rim sherds .	-weight: 8.3 gr -details: SC exterior, and SM interior and lip surfaces; ? rim with flat, thickened lip -decoration: exterior-single band of RO CWS stamps [upper rim], over undecorated zone [neck-?]; interior-single band of CC (RO/LO) CWS stamps [upper rim], over undecorated zone [neck]; lip-RO CWS stamps -measurements: lip thickness-9.0 mm; neck thickness n/a; upper nim height-11.6 mm	
	1086	3 fragmentary rim sherds	-weight: 2.8 gr -details: SM exterior, interior and lip surfaces; ? rim with round lip; coil break -decoration: exteriorsingle band of RO CWS stamps [upper rim], over at least 1 row of HO CWS stamps [neck] super-imposed with CP [neck]; interiorsingle band of short RO CWS dragged stamps [just below lip] over a single band of VE CWS stamps [upper rim], over undecorated zone [neck-?]; lip-RO CWS stamps -measurements: lip thickness-4.8 mm; neck thickness-6.2 mm	

Provenience	Cat #	Nature of Specimen	Description of Specimen	Comments
Feature 68 north ½ (fill) (continued)	1087	2 fragmentary rim sherds	-weight: 3.7 gr -details: SM exterior, interior, and lip surfaces; ? rim with flat lip; incipient pointed castellation -decoration: exterior-single band of short VE CWS stamps [upper rim], over undetermined zone [neck-?] superimposed with CP [neck]; interior-single band of short RO CWS dragged stamps [upper rim], over undecorated zone [neck-?] superimposed with BO [neck]; lip-RO CWS dragged stamps -measurements: lip thickness-6.0 mm; neck thickness-4.7 mm; upper rim height-7.1 mm	
	1088	fragmentary rim sherd	-weight: 2.7 gr -details: SM exterior, interior and lip surfaces; ? rim with flat lip -decoration: exterior-single band of short RO CWS stamps [upper rim], over at least 3 rows of HO CWS stamps [neck-?] superimposed with CP [neck]: interior- single band of RO CWS stamps [upper rim], over undecorated zone [neck-?] super-imposed with BO [neck]; lip-RO CWS stamps -measurements: lip thickness-7.0 mm; neck thickness 4.7 mm; upper rim height-9.8 mm	
	1089	fragmentary rim sherd	-weight: 2.1 gr -details: SM exterior, intenor and lip surfaces; ? rim with flat lip -decoration: exterior-single band of VE (partially smoothed in middle) CWS stamps [upper rim-neck], over undetermined zone [upper shoulder -?], interior-single band of RO CWS dragged stamps [upper rim], over undecorated zone [neck-?]; lip-RO CWS stamps (part of lip smoothed and undecorated) -measurements: lip thickness-5.4 mm; neck thickness-4.7 mm; upper rim height- 8.4 mm	
	1090	rim, 3 fragmentary rims, neck sherds (none joined)	-weight: 27.0 gr -see vessel descriptions	-Vessel 38
	1091	rim, 2 fragmentary rim and 2 shoulder sherds	-weight: 20.3 gr -see vessel descriptions	-Vessel 39
	1092	2 fragmentary rim sherds	-weight: 7.9 gr -details: SM exterior, interior and lip surfaces; ? rim with flat lip -decoration: exterior-partial band of RO CWS stamps [upper rim-?]; interior-partial band of RO CWS stamps [upper rim-?]; lip-RO CWS stamps -measurement: lip thickness-8.1 mm	
	1093	2 neck sherds -	weight: 8.2 gr -SM exterior and interior surfaces -decoration: exterior-rows of HO CWS stamps; interiorundecorated -measurement: neck thickness-5.2 mm	
	1094	neck-shoulder sherd	-weight: 5.1 gr -SM extenor and interior surfaces -decoration: exterior-rows of HO CWS stamps [neck] over zone of OP (RO/HO) CWS stamps; interior-undecorated -measurements: neck thickness-4.9 mm; shoulder thickness-4.2 mm	
	1095	shoulder sherd	-weight: 5.7 gr -SM exterior and interior surfaces -decoration: exterior-rows of HO CWS stamps; interior-undecorated -measurement: shoulder thickness-6.0 mm	
	1096	neck-shoulder sherd	weight: 4.7 gr -SM exterior and interior surfaces -decoration: exterior-rows of HO CWS stamps; interior- undecorated -measurements: neck thickness-5.1 shoulder thickness-4.8 mm	

Provenience	Cat#	Nature of Specimen	Description of Specimen	Comments
Feature 68 -north ½ (fill) (continued)	1097	shoulder sherd	-weight: 3.8 gr -SM exterior and interior surfaces -decoration: exterior-rows HO CWS stamps; interior-undecorated -measurement: shoulder thickness-5.7 mm	
	1098	shoulder sherd	-weight: 5.3 gr -SC exterior and interior surfaces -decoration: exterior-LO plats of short RO CWS stamps, over undecorated zone [body]; interior-undecorated -measurements: shoulder thickness-6.2 mm; body thickness-4.8 mm	
	1099	base sherd	-weight: 6.8 gr -CM exterior and SM interior surfaces; round base -measurement: base thickness-6.0 mm	
	1100	24 body sherds	weight: 302.3 gr SC exterior and SM interior surfaces	
	1101	24 body sherds	-weight: 338.4 gr -CM exterior and SM interior surfaces	
	1102	4 body sherds	-weight: 24.1 gr -SM exterior and interior surfaces	
	1103	fragmentary sherds	-weight: 753.9 gr -CM, SC and SM surfaces; many sherds with CWS stamps and/or CP	
	1104	pipe fragment	-weight: 3.0 gr -bowl fragment; see pipe descriptions	
	1105	2 juvenile vessel fragments	-weight: 7.0 gr -see juvenile vessel descriptions	
	1106	3 miscellaneous ceramic objects	weight: 14.1 gr see descriptions	
-	1243	2 pipe fragments	-weight: 5.2 gr pipe bowl fragments; see pipe descriptions	
Feature 68 —south ½ (fill)	1107	fragmentary rim sherd -	-weight: 6.0 gr -details: SM exterior, interior and lip surfaces; out-flaring nm with flat, thickened lip -decoration: exterior-single band of short RO CWS stamps [upper rim] over a single band of short VE CWS stamps superimposed with CP [both on neck], over at least 1 row of HO CWS stamps [upper shoulder-?]; interior-band of RO CWS stamps [upper nm], over undecorated zone [neck-?] superimposed with BO [neck]; lip-RO CWS stamps -measurements: lip thickness-8.1 mm; neck thickness-7.2 mm; upper rim thickness-7.0 mm	
	1108	fragmentary rim sherd	-weight: 2.1 gr -details: SC exterior, and SM interior and lip surfaces; out-flaring rim with round lip -decoration: exterior-single band of short RO CWS stamps [lip edge] over rows of HO CWS stamps [upper rim], over rows of HO CWS stamps [neck-7] superimposed with CP [upper shoulder]; interior-single band of CC (VE/RO) CWS stamps [upper rim], over undecorated zone [neck-?]; lip RO CWS stamps -measurements: lip thickness-4.5 mm; neck thickness 4.5 mm; upper rim thickness-8.7 mm	
Feature 69 -south ½ (fill)	1109	body sherd	-weight: 10.7 gr -SC exterior and SM interior surfaces	

Provenience	Cat#	Nature of Specimen	Description of Specimen	Comments
	1110	fragmentary sherds	-weight: 10.5 gr -CM, SC and SM surfaces	
	1111	fragmentary rim sherd	-weight: 13.2 gr -see vessel descriptions	-Vessel 40
	1112	rim sherd	-weight: 9.0 gr -see vessel descriptions	-Vessel 41
	1113	rim and shoulder sherd	-weight: 15.8 gr -see vessel descriptions	–Vessel 42
	1114	3 fragmentary rim sherds	-weight: 12.9 gr see vessel descriptions	-Vessel 43
	1115	fragmentary rim sherd	-weight: 4.8 gr -see vessel descriptions	-Vessel 44
	1116	4 fragmentary rim and neck sherds (none joined)	weight: 27.4 gr see vessel descriptions	-Vessel 45
	1117	2 fragmentary rim sherds	-weight: 5.2 gr see vessel descriptions	-Vessel 46
	1118	2 rim and neck sherds (2 joined)	-weight: 42.0 gr -see vessel descriptions	-Vessel 47
	1119	fragmentary rim sherd	weight: 8.8 gr see vessel descriptions	–Vessel 48
	1120	2 rim, fragmentary nm, 5 shoulder sherds (3 joined)	–weight: 14.4 gr –see vessel descriptions	-Vessel 49
	1121	rim, 3 fragmentary rim sherds	-weight: 58.0 gr -see vessel descriptions	-Vessel 50
	1122	rim and frag. rim sherds	-weight: 10.6 gr -see vessel descriptions	-Vessel 51
	1123	2 rim sherds	-weight: 30.6 gr -see vessel descriptions	Vessel 52
	1124	2 fragmentary rim sherds	–weight: 36.8 gr –see vessel descriptions	-Vessel 53
	1125	rim sherd	weight: 20.5 gr see vessel descriptions	-Vessel 54
	1126	fragmentary rim sherd	 -weight: 5.3 gr -details: SM exterior and lip, sloughed interior surfaces; ? rim with round lip -decoration: exterior-single band of slightly RO CWS stamps [upper rim-?]; interior-undetermined zone [upper rim-?]; lip-RO CWS stamps -measurement: lip thickness-11.5 mm 	
Feature 69 -south ½ (fill) continued)	1127	fragmentary rim and neck sherds	-weight: 7.5 gr -details: sloughed exterior, and SM interior and lip surfaces;? rim with flat lip -decoration: exterior-single band of RO CWS stamps [upper rim], over undecorated zone [neck-?] superimposed with CP [neck]; interior- single band of CC (RO/LO) CWS stamps [upper rim], over undetermined zone [neck-?] super-imposed with BO [neck]; lip-undecorated -measurements: n/a	

Provenience	Cat#	Nature of Specimen	Description of Specimen	Comments
	1128	fragmentary rim sherd	weight: 6.8 grdetails: CM exterior, sloughed interior, and SC lip surfaces; ? rim with round lipdecoration: exteriorsingle band of CC (VE/LO) CWS stamps [upper rim], over undecorated zone [neck-?] superimposed with CP [neck]; interiorundetermined [upper rim-?]; lip-VE CWS stamps at interior lip edgemeasurements: n/a	
	least 2 rows of HO CWS stamps [neck-?]; interior—undetermined zone [upper.rim-lip—undetermined -measurements: lip thickness—4.2 mm; neck thickness—5.7 mm; upper rim		—SC exterior and interior, undetermined lip surfaces; out-flaring rim with flat lip —decoration: exterior—single band of CC (RO/LO) CWS stamps [upper rim], over at least 2 rows of HO CWS stamps [neck-?]; interior—undetermined zone [upper.rim-?]; lip—undetermined	
-decoration: exterior-partial band of rim-?]; interiorundetermined zone [-weight: 3.7 gr -details: SM exterior and lip, sloughed interior surfaces; ? rim with flat lip -decoration: exterior-partial band of RO CWS stamps [upper rim-?]; interiorundetermined zone [upper rim-?]; lip-undecorated -measurement: lip thickness-5.9 mm		
	-weight: 7.5 gr -SM exterior and interior surfaces -decoration: exterior-rows of HO CWS stamps [neck-?] superimposed [neck]; interior-undecorated zone super-imposed with BO [neck] -measurement: neck thickness-8.6 mm		-SM extenor and intenor surfaces -decoration: exterior-rows of HO CWS stamps [neck-?] superimposed with CP [neck]; interior-undecorated zone super-imposed with BO [neck]	
	1132	neck sherd	-weight: 7.1 gr -SM exterior and interior surfaces -decoration: exterior-rows of HO CWS stamps [neck-?] supermposed with CP [neck]; interior-undecorated zone [neck-?] superimposed with BO [neck] -measurement: neck thickness-11.7 mm	
-SM [decordion decoration decoration stamps, over		shoulder sherd	weight: 8.8 grSM [decorative zone] over SC [body] exterior and SM interior surfacesdecoration: exterior-rows of HO CWS stamps over a band of short VE CWS stamps, over undecorated zone [body]; interior- undecoratedmeasurement: shoulder thickness-8.0 mm	
	1134	4 shoulder sherds	-weight: 35.0 gr -SM exterior and interior surfaces -decoration: exterior-LO plats of RO CWS stamps; interior-undecorated -measurement: shoulder thickness-5.8-9.8 mm	
	1134a	3 shoulder sherds	weight: 20.1 grSM exterior and interior surfacesdecoration: exteriorRO plats of LO CWS stamps; interiorundecoratedmeasurements: shoulder thickness4.3-9.7 mm	

Provenience	Cat#	Nature of Specimen	Description of Specimen	Comments
Feature 69 —south ½ (fill) (continued)	1135	fragmentary rim sherd	-weight: 2.9 gr -details: SM exterior, interior and lip surfaces; out-flaring rim with flat lip -decoration: exterior-single band of very short RO CWS stamps [upper rim], over HO CWS stamps [neck-?] superimposed with CP [neck]; interior-single band of RO CWS stamps [upper rim], over undecorated zone [neck-?] superimposed with BO [neck]; LO CWS stamps -measurement: lip thickness-6.4 mm; neck thickness-8.8 mm	
	1135a	neck sherd	weight: 7.5 grdetails: SM exterior and interior surfacesdecoration: exterior-partial band of RO CWS stamps [?-upper rim], over rows of HO CWS stamps [neck-?] superimposed with CP [neck]; interior-partial band of RO CWS stamps [?-upper rim], over undecorated zone [neck-?] superimposed with BO [neck]measurement: neck thickness-8.2 mm	
	1136	3 shoulder sherds	-weight: 17.5 gr -SM exterior and interior surfaces -decoration: exterior-rows of HO CWS stamps; interiorundecorated -measurement: shoulder thickness5.6-6.5 mm	
	1137	4 neck-shoulder sherds	-weight: 66.5 gr -SM [decorative zone] over SC [body] exterior and SM interior surfaces -decoration: exterior-LO plats of HO CWS stamps superimposed with random RO CWS stamps, over undecorated zone [body]; interior-undecorated -measurements: neck thickness-6.8 mm; shoulder thickness-7.8 mm; body thickness-7.8 mm	
	1138	2 shoulder sherds	weight: 24.0 grSM exterior and interior surfacesdecoration: exterior-LO plats of HO CWS stamps; interior-undecoratedmeasurement: shoulder thickness-7.9 mm	
	1139	shoulder sherd	-weight: 7.8 gr -SM exterior and interior surfaces -decoration: exterior-oblique rows (or plats) of (corded?) punctates; interior- undecorated -measurement: shoulder thickness-6.9 mm	
	1140	shoulder sherd	-weight: 34.6 gr -SM [decorative zone] over CM [body] exterior and SM interior surfaces -decoration: exterior-at least 1 row of HO CWS stamps over a band of VE CWS stamps over undecorated zone [body]; interior-undecorated -measurements: shoulder thickness-8.4 mm; body thickness-7.6 mm	
	1141 neck sherd —weight: 5.7 gr —SM and wiped exterior and sloughed interior surfaces —decoration: exterior—RO plats of RO corded punctates superimposed with CP [neck]; interior—undecorated —measurement: neck—n/a			
	1141a	shoulder sherd	weight: 10.8 grSM and wiped exterior and SM interior surfacesdecoration: exteriorRO plats of RO corded punctates; interiorundecoratedmeasurement: shoulder thickness5.7 mm	
	1141b	4 shoulder sherds	weight: 42.7 grSM [decorative zone] over CM or SC [body], SM (and wiped) interior surfacesdecoration: exteriorLO plats of RO CWS stamps; interior undecoratedmeasurement: 5.0-6.9 mm	

Provenience	Cat#	Nature of Specimen	Description of Specimen	Comments
Feature 69 -south ½ (fill) (continued)	1141c	shoulder sherd	weight: 8.4 grSM exterior and interior surfacesdecoration: exterior-RO plats of LO CWS stamps; interior-undecoratedmeasurement: shoulder thickness-7.3 mm	
	1142	4 shoulder sherds	-weight: 34.9 gr -SM exterior and interior surfaces -decoration: exterior-tightly spaced RO plats of LO CWS stamps; interior-undecorated -measurement: shoulder thickness-4.8-9.8 mm	
	1143	61 body sherds	-weight: 866.4 gr -SC exterior and SM interior surfaces; 3 with carbon encrustation	
	1144	31 body sherds	-weight: 254.8 gr -CM exterior and SM interior surfaces	
	1145	base sherd	-weight: 82.7 gr -SM exterior and interior surfaces; round base -measurements: body thickness-12.5 mm; base thickness-16.8 mm	
	1146	base sherd -weight: 5.1 gr -SC exterior and SM interior surfaces; probably semi-conical base -measurement: base thickness-9.0 mm		
	1147	base sherd	-weight: 3.9 gr -SC exterior and SM interior surfaces; probably semi-conical base -measurement: base thickness-6.0 mm	
	1148	3 body sherds	-weight: 20.2 gr -SM exterior and interior surfaces	
	1149	2 body sherds	-weight: 7.9 gr SC exterior and SC interior surfaces	
	1150	fragmentary sherds	-weight: 2,178.4 gr -CM, SC, WI and SM surfaces; numerous sherds with CWS stamped decorations and CP or BO; numerous coil breaks	
	1251	pipe fragment	-weight:	
north ½ (iv. 1)	1151	fragmentary rim sherd	-weight: 3.2 gr -details: SM exterior, sloughed interior and SC lip surfaces; ? rim with flat lip -decoration: exterior-partial band of RO CWS stamps [upper rim-?]; interior undetermined zone [upper rim-?]; lip-undecorated -measurement: lip thickness-n/a	
	1152	fragmentary sherds	weight: 26.0 grSC, SM and WI surfaces; several sherds decorated with CWS stamps	
-north ½ (Iv. 2)	1153	shoulder sherd	-weight: 4.7 grSM exterior and interior surfacesdecoration: exterior-RO plats of LO CWS stamps; interior-undecoratedmeasurement: shoulder thickness-6.3 mm	
	1154	shoulder sherd	weight: 2.7 grCM exterior and sloughed interiordecoration: exterior-rows of HO CWS stamps; interiorundeterminedmeasurement: shoulder thickness-n/a	

Provenience	Cat#	Nature of Specimen	Description of Specimen	Comments
	1155	shoulder sherd	-weight: 4.1 gr -SM [decorative zone] over SC [body] exterior and SM interior surfacesdecoration: exterior-LO plats of RO CWS stamps; interior-undecoratedmeasurement: shoulder thickness-6.1 mm	
Feature 69 -north ½ (lv. 2) (continued)	1156	shoulder sherd	weight: 4.7 grSM exterior and interior surfacesdecoration: exteriorLO plats of short RO CWS stamps; interiorundecoratedmeasurement: shoulder thickness7.9 mm	
	1157	neck sherd	-weight: 6.3 gr -CM exterior and combed interior surfaces -decoration: exterior-partial band of RO CWS stamps [?-upper rim], over band of LO CWS stamps [neck] over at least 1 band of short RO CWS stamps [upper shoulder-?]; interior- undecorated [upper rim-?] -measurement: neck thickness-9.4 mm	
	1158	3 body sherds	-weight: 37.8 gr -SC exterior and SM interior surfaces	
	1159	3 body sherds		
	1160	fragmentary sherds	-weight: 524.4 gr -CM, SC and SM surfaces; numerous sherds with traces of CWS stamps and/or CP	
-north ½ (iv. 3)	1161	2 rim, 6 frag. rim, 4 neck, 13 shlder sherds (joined)	-weight: 357.8 gr -see vessel descriptions	-Vessel 55
	1162	fragmentary rim sherd	-weight: 2.2 gr -details: SM extenor, interior and lip surfaces; ? rim with flat lip -decoration: exterior-single band of RO CWS stamps [upper nm], over undeter- mined zone [neck-?] superimposed with CP [neck]; interior-partial band of nearly VE CWS stamps [upper rim-?]; lip-RO CWS stamps -measurements: lip thickness-5.5 mm; neck thickness n/a; upper rim height-7.5 mm	
	1163	fragmentary rim sherd	-weight: 2.6 gr -SM exterior and lip, sloughed interior surfaces; ? rim with round, thickened lip -decoration: exterior-partial band of VE CWS stamps [upper rim-?]; interior-undetermined zone [upper rim-?]; lip-VE CWS stamps -measurement: lip thickness-10.7 mm	
	1164	fragmentary rim sherd	weight: 2.4 gr see vessel descriptions	-Vessel 63
	1165	2 shoulder sherds	-weight: 11.1 gr -SM exterior and sloughed interior surfaces -decoration: rows of HO CWS stamps over RO CWS stamps; interior-undeter-mined -measurement: shoulder thickness-n/a	
	1166	2 neck sherds (joined)	-weight: 8.1 gr -SM exterior and interior (with some WI) surfaces -decoration: exterior-rows of HO CWS stamps superimposed with CP; interior-undecorated zone superimposed with BO -measurement: shoulder thickness6.6 mm	
	1167	shoulder sherd	 -weight: 5.7 gr -SC exterior and SM interior surfaces -decoration: exterior-LO plats of short RO CWS stamps; interior-undecorated -measurement: shoulder thickness-4.9 mm 	

Provenience	Cat #	Nature of Specimen	Description of Specimen	Comments
Feature 69 -north ½ (Iv. 3) (continued)	1168	fragmentary rim sherd	weight: 6.2 grdetails: SM exterior, interior and lip surfaces; ? rim with flat rimdecoration: exterior-single band of RO CWS stamps [upper rim], over a partial zone of HO over RO over HO CWS stamps [neck-?] superimposed with CP [neck]; interior-single band of RO CWS stamps [upper rim], over undecorated zone [neck-?] superimposed with BO [neck]; lip-RO CWS stampsmeasurements: lip thickness-7.7 mm; neck thickness-7.5 mm; upper rim height-10.1 mm	
	1169	neck-shoulder sherds	weight: 25.7 gr -associated with Vessel 63	-see #1164
	1170	shoulder sherd	weight: 4.9 grSM [decorative zone] over CM [body] exterior, sloughed interior surfacesdecoration: exterior-partial band of RO CWS stamps over undecorated zone; interior-undeterminedmeasurement: shoulder thickness-n/a	
	1171	neck-shoulder sherd	weight: 8.7 gr -SM extenor and intenor surfaces -decoration: exterior-zone of RO CWS stamps over 3 rows of HO CWS stamps over LO plats of short HO CWS stamps; interior-undecorated -measurements: neck thickness-6.6 mm; shoulder thickness-7.2 mm	
	1172	3 shoulder sherds	-weight: 24.7 gr -SC [decorative zone] over SC [body] exterior and SM interior surfaces -decoration: exterior-LO plats of short RO CWS stamps, over undecorated zone [body]; interior-undecorated zone -measurements: shoulder thickness-5.9-6.9 mm; body thickness -6.6-7.3 mm	
	1173	neck, 12 shoulder sherds	-weight: 73.8 gr -SM exterior, and SM or sloughed interior surfaces -decoration: exterior-rows of HO CWS stamps; interior-undetermined -measurements: neck thickness-6.3 mm; shoulder thickness-6.5-8.6 mm	-some likely belong to Vessel 55
	1174	5 shoulder sherds	weight: 18.7 grCM exterior and SM interior or sloughed surfacesdecoration: exteriorrows of HO CWS stamps; interiorundeterminedmeasurement: shoulder thickness-7.3-8.0 mm	
	1175	neck-shoulder sherd	weight: 4.7 grSM [decorative zone] over SC [body] exterior, and SM interior surfaces; interior carbon encrustationdecoration: exteriorat least 2 rows of HO CWS stamps over a single band of short RO CWS stamps, over undecorated zone [body]; interiorundecoratedmeasurements: neck thickness6.5 mm; shoulder thickness5.0 mm	
	1176	2 shoulder sherds	-weight: 12.0 gr -SM [decorative zone] over SC [body] exterior, and SM (with some WI) surfaces; exterior carbon encrustation -decoration: exterior-LO plats of RO CWS stamps, over undecorated zone; interior-undecorated -measurements: shoulder thickness-5.1 mm; body thickness-4.2 mm	
	1177	shoulder sherd	-weight: 8.4 gr -SM [decorative zone] over SC [body] exterior and SM interior surfaces -decoration: exterior-at least 2 rows of HO CWS stamps, over undecorated zone [body], interior-undecorated zone -measurements: shoulder thickness-9.4 mm; body thickness-8.5 mm	
	1178	58 body sherds	weight: 1,129.5 gr —SC exterior and SM or WI interior surfaces; 2 with carbon encrustation; finger anvil impressions	

Provenience	Cat#	Nature of Specimen	Description of Specimen	Comments
Feature 69 -north ½ (lv. 3)	1179	10 body sherds	-weight: 147.4 gr -CM extenor and SM interior surfaces	
(continued)	1180	2 base sherds	-weight: 211.0 gr -SC exterior and SM and combed interior surfaces; round base -measurements: body thickness-8.0 mm; base thick-ness-13.6 mm	
	1181	base sherd	-weight: 79.6 gr -SC exterior and SM/WI interior surfaces; round base -measurements: body thickness-5.3 mm; base thick-ness-11.9 mm	
	1182	fragmentary sherds	-weight: 162.2 gr -SM, S C and CM surfaces	
disturbance	1183	2 base sherds	-weight: 266.2 gr -SC exterior and SM interior surfaces; round base -measurements: body thickness-9.4 mm; base thick-ness14.0 mm	
	1184	body sherd	-weight: 25.3 gr -SC exterior and SM interior surfaces	
Feature 77 (fill)	1185	fragmentary sherds	-weight: 4.6 gr -SC and S M surfaces	
Feature 78 (fill)	1186	shoulder sherd	-weight: 5.7 gr -SC exterior and sloughed interior surfaces; exterior carbon encrustation -decoration: exterior-LO plats of RO CWS stamps; interiorundetermined -measurement: shoulder thickness n/a	
	1187	2 body sherds	-weight: 10.3 gr -CM exterior and SM interior surfaces	
	1188	fragmentary sherds	-weight: 6.4 gr -SC exterior and SM interior surfaces	
Feature 79 -south ½ (Iv.1/2)	1189	fragmentary rim sherd	-weight: 0.7 gr -details: SM exterior, interior and lip surfaces; ? rim with round lip -decoration: exterior-partial band of spaced VE CWS stamps [upper rim-?]; interior-undecorated zone [upper rim-?]; lip-row of CWS PU -measurements: lip thickness-4.2 mm; neck thickness n/a; upper rim height-n/a	
	1190	3 neck sherds (2 joined)	-weight: 10.0 gr -SM exterior and interior surfaces -decoration: exterior-rows of HO CWS stamps; interiorundecorated -measurement: shoulder thickness7.4 mm	
	1191	5 body sherds	-weight: 33.2 gr -SC exterior and SM interior surfaces	
	1192	fragmentary sherds	-weight: 33.1 gr -CM, SC and SM surfaces; several with CWS stamps	
Feature 79 -north ½ (Iv. 1)	1193	body sherd	-weight: 6.8 gr -SC exterior and SM interior surfaces	
	1194	body sherd	-weight: 6.1 gr -CM exterior and SM interior surfaces	
	1195	fragmentary sherds	-weight: 6.4 gr -SC and SM surfaces	
north ½ (Iv. 2)	1196	2 body sherds	-weight: 19.7 gr -SC exterior and SM interior surfaces	

Provenience	Cat#	Nature of Specimen	Description of Specimen	Comments
Feature 79 -north ½ (Iv. 2)	1197	body sherd	-weight: 8.3 gr -CM exterior and SM interior surfaces	
(continued)	1198	fragmentary sherds	-weight: 23.2 gr -SC and SM surfaces	
Feature 80 (fill)	1199	fragmentary sherd	-weight: 0.8 gr -SM surfaces	
Feature 82a (fill)	1200	rim sherd	-weight: 23.6 gr -see vessel descriptions	-Vessel 56
	1201	neck sherd	-weight: 6.4 gr -SM exterior and interior surfaces -decoration: exterior-partial band of VE CWS stamps [?-upper rim], over HO CWS stamps [neck-?] superimposed with CP [neck]; interior-partial band of LO CWS stamps [?-upper rim], over undecorated zone [neck-?] superimposed with BO [neck] -measurements: neck thickness-9.2 mm	
	1202	neck sherd	-weight: 4.3 gr -SM exterior and sloughed interior surfaces -decoration: exterior-band of RO CWS stamps over a band of short VE CWS stamps superimposed with CP; interior undetermined -measurement: neck thickness-n/a	
	1203	7 body sherds	weight: 184.0 gr SC exterior and SM interior surfaces	
	1204	3 body sherds	-weight: 35.7 gr -CM exterior and SM interior surfaces	
	1205	body sherd	weight: 8.3 gr SC exterior and CM interior surfaces	
	1206	body sherd	-weight: 5.2 gr -SM exterior and interior surfaces	
	1207	fragmentary sherds	weight: 246.5 gr CM, SC, WI and SM surfaces; several sherds also have CWS stamps and/or CP	
	1208	juvenile vessel fragment	-weight: 9.3 gr -see juvenile vessel descriptions	
	1209	miscellaneous ceramic object	-weight: 4.4 gr -lump of clay	
Feature 82b (fill)	1210	neck sherd	-weight: 5.0 gr associated with Vessel 56	-see #1200
	1211	rim sherd	weight: 27.4 gr see vessel descriptions	-Vessel 57
	1212	fragmentary rim sherd	-weight: 4.2 gr -details: SC exterior, SM interior, and CM lip surfaces; ? rim with flat, thickened lip -decoration: exterior-single band of short RO CWS stamps [lip edge] over a single band of RO CWS stamps superimposed with CP [both at neck]; interior-single band of CC (LO/RO) CWS stamps [upper rim] over undecorated zone [neck-?] superimposed with BO [neck]; lip-undecorated -measurements: lip thickness-10.2 mm; neck thickness-7.3 mm; upper rim height-11.5 mm	

Provenience	Cat #	Nature of Specimen	Description of Specimen	Comments
Feature 82b (fill) (continued)			-weight: 3.4 gr -SM exterior and interior surfaces -decoration: exterior-rows of HO CWS stamps superimposed with CP; interior-undecorated -measurement: neck thickness-8.8 mm	
	1214	2 shoulder sherds	-weight: 23.7 gr -SM [decorative zone] over SC [body] exterior and CM interior surfaces -decoration: exterior-LO plats of RO CWS stamps, over undecorated zone [body]; interior-undecorated -measurements: neck thickness-6.0 mm; shoulder thickness-6.1 mm; body thickness-5.7 mm	
	1215	8 body sherds	weight: 131.5 gr SC exterior and SM interior surfaces	
	1216	5 body sherds	-weight: 190.0 gr SC exterior and CM interior surfaces	
	1217	base sherd	weight: 26.8 grSC exterior and CM interior surfaces; round basemeasurements: body thickness6.8 mm; base thick-ness8.0 mm	
	1218	fragmentary sherds	weight: 241.7 gr CM, SC and SM surfaces; many sherds with CWS stamps and/or CP	
Feature 83 (fill)	Feature 83 (fill) 1219 2 body sh		-weight: 60.9 gr -SC exterior and SM interior surfaces	
	1220	body sherd	-weight: 7.1 gr -CM extenor and SM (and combed) interior surfaces	
Feature 84 (fill)	1221	body sherd	-weight: 9.0 gr -SC exterior and SM interior surfaces	
	1222	fragmentary sherds	-weight: 19.2 gr -CM, SC and SM surfaces	
Feature 85 (fill)	1223	shoulder sherd	weight: 7.2 grSM exterior and interior surfacesdecoration: exterior-rows of HO CWS stamps over partial band of RO CWS stamps; interior-undecoratedmeasurement: shoulder thickness-9.8 mm	
	1224	body sherd	-weight: 5.1 gr -SC exterior and SM interior surfaces	
	1225	fragmentary sherds	-weight: 41.0 gr -SC and SM surfaces	
Feature 86 (fill)	1226	fragmentary sherds	-weight: 16.7 gr -SC and SM surfaces	
Feature 88 -south ½ (fill)	1227	3 body sherds	-weight: 15.4 gr -SC exterior and SM interior surfaces	
	1228	fragmentary sherds	-weight: 19.6 gr -SC and SM surfaces	
-north ½ (fill)	1229	fragmentary sherds	weight: 5.4 grSM exterior and SM interior surfaces	

Provenience	Cat #	Nature of Specimen	Description of Specimen	Comments
Feature 96 (fill)	1230	fragmentary sherds	-weight: 12.0 gr -SC and SM surfaces; 1 has CWS stamps	

Appendix 2.2 Ceramics: Breakdown of Cooking Vessel Sample

Sample Type	1m² test units		1m² exc uni	avation ts*	5m² units	(posts)	Featu	ires	Total
	X	%	×	%	X	%	Х	% x	
Vessels									· ··
# vessels	1	3.1	6	9.4	2	3.1	56	84.4	65
# sherds**	1	0.6	11	1.7	2	0.3	639	97.4	653
weight (g)	15.0	0.5	106.8	1.2	13.0	0.1	9,055.6	98.2	9,190.4
Sherds					·				
Fragmentary Rim	Sherds								
# sherds	13	9.8	63	47.4			57	42.8	133
weight (g)	55.8	10.4	275.4	51.4			205.0	38.2	536.2
Neck Sherds									
# sherds	12	18.5	28	43.1	1	1.5	24	36.9	65
weight (g)	64.5	18.4	144.7	41.4	3.8	1.1	136.8	39.1	349.8
Neck-shoulder she	erds								
# sherds	4	8.7	19	41.3	2	4.3	21	45.7	46
weight (g)	45.0	9.3	164.4	33.9	74.1	15.3	201.2	41.5	484.7
Shoulder sherds									
# sherds	28	11.4	107	43.1	6	2.4	107	43.1	248
weight (g)	160.6	9.4	632.4	36.9	61.0	3.6	859.1	50.1	1,713.1
Body sherds									
# sherds	108	7.4	523	36.0	41	2.8	783	53.8	1,455
weight (g)	645.0	4.2	4,372.0	28.3	424.6	2.7	10,007.8	64.8	15,449.4
Base sherds									
# sherds			12	10.7	5	4.5	95	84.8	112
weight (g)			294.4	7.9	209.6	5.7	3,204.6	86.4	3,708.6
Fragmentary shero	ls								
weight (g)	2,044.6	8.5	12,335.5	51.3	644.3	2.7	9,014.0	. 37.5	24,038.4
Sherds-sub total									
# sherds	165	8.0	752	36.5	55	2.7	1,087	52.8	2,059
weight	3,015.5	6.5	18,218.8	39.3	1,417.4	3.1	23,628.5	51.1	46,279.7
Total									
# sherds	166	6.2	763	28.1	57	2.1	1,726	63.6	2,712
weight (g)	3,030.5	5.4	18,325.6	33.0	1,430.4	2.8	32,684.7	58.8	55,470.6

^{*}block excavations (e.g. field school, etc.)
**includes all sherds (except fragmentary sherds) that were used to define the vessels

APPENDIX 3 Holmedale (AgHb-191) Site: Descriptive Data for Identified Vessels

Vessel#	Provenience (Cat#)	Nature of Vessel	Description of Specimen
1	480-185 (#38)	rim vessel (lip to upper shoulder)	Figure A3.1; Plate 4.1 -weight: 29.7 gr -sherd count: 2 rim -surface treatment: exteriorsmoothed [decorative zone] over cord-marked [body] (SM over CM); interior and lipSM -details: flat lip with out-flaring rim -exterior decoration (incomplete): zone 1single band of right oblique (RO) "s" twist cord-wrapped stick (CWS-s) stamps [upper rim] zone 2undecorated zone [neck-?] circular punctates (CP)-within zone 1/2 boundary [neck] -interior decoration (complete): zone 1single band of RO CWS-s stamps [upper rim and lip edge] zone 2undecorated zone [upper neck-?] bosses (BO)zone 2 [neck] -lip decoration: undecorated except for RO CWS-s stamps [interior lip edge] -measurements: lip thickness-8.4 mm; upper rim thickness-8.1 mm; neck thickness-7.6 mm; shoulder thickness-6.7 mm; upper rim height-16.2 mm; rim-punctate distance-18.7 mm; diameter-18 cm
2	485-224 (#116) 488-224 (#207)	rim vessel (lip to upper shoulder)	Figure A3.2; Plate 4.7 -weight: 28.4 gr -sherd count: 3 rim, 1 fragmentary rim, 2 neck -surface treatment: exterior, interior and lip-SM -details: round lip with vertical rim -exterior decoration (incomplete): zone 1single band of RO CWS-s stamps [upper rim] zone 2rows of horizontal (HO) CWS-s stamps [neck-?] BO-top of zone 2 [neck] interior decoration (complete): zone 1single band of RO CWS-s stamps [upper rim] zone 2undecorated zone [neck-?] CP -zone 2 [neck] lip decoration: left oblique (LO) CWS-s stamps -measurements: lip thickness-6.6 mm; upper rim thickness-6.0 mm; neck thickness-5.4 mm; shoulder thickness-6.6 mm; upper rim height-21.0 mm; rim-punctate distance-14.9 mm
3	190-210 (#255) Feature 1 (#678)	reconstructed vessel & associated sherds (lip to upper body)	Figure A3.3; Plate 4.11 -weight: 42.8 gr -sherd count: 2 rim, 2 fragmentary rim, 5 neck, 4 neck-shoulder, 3 shoulder (many joined) -surface treatment: exterior—SM [decorative zone] over CM [body]; interior and lip—SM -details: flat lip with out-flaring rim; crenulated shoulder -exterior decoration (complete): zone 1single band of LO cord-wrapped cord (twist unknown) (CWC-?) stamps [upper rim] zone 2decorative zone consisting of opposed RO and HO CWC-? stamps with undecorated areas [neck-upper shoulder], over single band of vertical (VE) CWC-? stamps [lower shoulder] zone 3undecorated zone [upper body-?] CP -top of zone 2 [neck] -interior decoration (complete): zone 1-single band of VE CWC-? stamps [upper rim] zone 2undecorated zone [neck-?] BO-top of zone 2 [neck] -lip decoration: single row of HO CWC-? stamps -measurements: lip thickness—4.7 mm; upper rim thickness—4.6 mm; neck thickness—4.3 mm; shoulder thickness—7.5 mm; body thickness—4.6 mm; upper rim height—9.3 mm; rim-punctate distance—10.5 mm; diameter—12 cm

Vessel#	Provenience (Cat#)	Nature of Vessel	Description of Specimen
4	492-223 (#370)	rim vessel (lip to upper shoulder)	Figure A3.1 -weight: 6.9 gr -sherd count: 2 rim (joined) -surface treatment: exteriorCM [decorative zone] over CM [body]; interior and lip—SM -details: round lip with slightly out-flaring rim -exterior decoration (incomplete): zone 1single band of RO CWS-s stamps [upper rim] zone 2undecorated zone [neck-?] CP -zone 2 [neck] -interior decoration (complete): zone 1single band of LO CWS-s stamps [upper rim] zone 2undecorated zone [neck-?] BO-zone 2 [neck] lip decoration: VE CWS-s stamps -measurements: lip thickness-8.1 mm; upper rim thickness-7.7 mm; neck thickness-7.3 mm; shoulder thickness-8.0 mm; upper rim height-9.6 mm; rim-punctate distance-20.7 mm
5	493-220 (#382)	rim vessel (lip to neck)	Figure A3.2 -weight: 2.7 gr -sherd count: 1 rim -surface treatment: exterior—CM [neck] over SM [decorative zone] over SC [body]; interior and lip—SM -details: splayed lip with vertical rim -exterior decoration (incomplete): zone 1single band of VE CWC-? stamps [lip edge] zone 2undecorated zone over rows of HO CWC-? stamps [upper rim-?] CP—top of zone 2 [neck] -interior decoration (complete): zone 1single band of VE CWC-? stamps [upper rim-neck] zone 2undecorated zone [upper shoulder-?] BO—base of zone 1 [neck]lip decoration: single row of HO CWC-? stamps -measurements: lip thickness—8.0 mm; upper rim thickness—4.9 mm; neck thickness—4.9 mm; shoulder thickness—4.0 mm; upper rim height—7.7 mm; rim-punctate distance—7.2 mm
6	496-223 (#532)	rim vessel (lip to upper shoulder)	Figure A3.5; Plate 4.9 -weight: 27.3 gr -sherd count: 2 rim (joined) -surface treatment: exterior, interior and lip—SM -details: flat lip with vertical rim -exterior decoration (incomplete): zone 1–2 overlapping bands of RO CWS-s stamps [upper rim-neck] zone 2–plats (?) of RO CWS-s stamps [upper shoulder-?] -interior decoration (complete): zone 1–single band of RO CWS-s stamps [upper rim] zone 2–undecorated zone (neck-?] lip decoration: single row of HO CWS-s stamps -measurements: lip thickness—8.0 mm upper rim thickness—9.1 mm; neck thickness—8.1 mm; shoulder thickness—7.9 mm; upper rim height—19.8 mm; diameter—20 cm

Vessel#	Provenience (Cat#)	Nature of Vessel	Description of Specimen
7	497-224 (#583)	rim vessel (lip to upper shoulder)	Figure A3.1; Plate 4.1 -weight: 27.2 gr -sherd count: 1 rim -surface treatment: exterior-SC, interior and lip-SM -details: flat, beveled-out lip with vertical rim, rising to a castellation -exterior decoration (complete): zone 1undecorated zone [upper rim-?] CP-zone 1 [neck] -interior decoration (complete): zone 1undecorated zone [upper rim-?] BO-zone 1 [neck] -lip decoration: undecorated -measurements: lip thickness-7.0 mm; upper rim thickness-7.9 mm; neck thickness-8.1 mm; shoulder thickness-7.8 mm; upper rim height-23.6 mm; rim-punctate distance-23.6 mm
8	Feature 1 (#675)	reconstructed vessel with associated reconstructed portions (lip to lower body)	Figure A3.3; Plate 4.12 -weight: 240.9 gr -sherd count: 2 rim, 6 neck, 20 shoulder -surface treatment: exterior-SM [decorative zone] over CM [body]; interior and lip-SM -details: flat lip with out-flaring rim -exterior decoration (complete): zone 1single band of RO CWS-s stamps [upper rim] zone 2-HO CWS-s stamps [neck-upper shoulder], over VE plats of RO CWS-s stamps [upper shoulder-upper body] zone 3undecorated zone [lower body-?] CP -top of zone 2 [neck] -interior decoration (complete): zone 1-single band of RO CWS-s stamps [upper rim] zone 2undecorated zone [neck-?] BO-top of zone 2 [neck] -lip decoration: single row of HO CWS-s stamps -measurements: lip thickness-8.0 mm; upper rim thickness-6.9 mm; neck thickness- 8.2 mm; shoulder thickness-7.6 mm; body thickness-6.0 mm; upper rim height- 20.5 mm; rim-punctate distance-26.9 mm; diameter-22 cm
9	Feature 1 (#676)	rim vessel (lip to upper shoulder)	Figure A3.5; Plate 4.9 -weight: 24.2 gr -sherd count: 2 rim, 3 fragmentary rim, fragmentary body -surface treatment: exterior, interior and lip-SM -details: flat, beveled-out lip with slightly out-flaring rim -exterior decoration (incomplete): zone 1-single band of VE CWC-s stamps [upper rim] zone 2-VE plats of HO CWC-s stamps [neck-?] CP -top of zone 2 [upper rim] -interior decoration (complete): zone 1-single band of RO CWC-s dragged stamps [upper rim], over VE CWC-s stamps [neck] zone 2-undecorated zone [upper shoulder -?] BO-base of zone 1 [neck] -lip decoration: RO CWC-s dragged stamps -measurements: lip thickness-7.9 mm; upper rim thickness-8.2 mm; neck thickness-7.3 mm; shoulder thickness-3.8 mm; upper rim height-12.5 mm; rim-punctate distance-13.1 mm; diameter-16 cm

Vessel#	Provenience (Cat#)	Nature of Vessel	Description of Specimen
10	Feature 1 (#677)	rim vessel (lip to upper shoulder)	Figure A3.5; Plate 4.9 -weight: 148.0 gr -sherd count: 5 rim, 3 fragmentary rim, 9 shoulder -surface treatment: exterior, interior and lip—SM -details: flat, beveled-out lip with out-flaring rim -exterior decoration (incomplete): zone 12 rows of LO CWS-? stamps [upper rim-upper neck] zone 2LO plats of HO CWS-? stamps [lower neck-?] CP—top of zone 2 [lower neck] -interior decoration (complete): zone 1single band of RO CWS-? stamps [upper rim] zone 2undecorated zone [upper neck-?] BO-zone 2 [neck] -lip decoration: RO CWS-? stamps -measurements: lip thickness-7.5 mm; upper rim thickness-8.5 mm; neck thickness-9.1 mm; shoulder thickness-7.5 mm; upper rim height-10.9 mm; rim-punctate distance-20.5 mm; diameter-22 cm
11	Feature 3 (#708)	rim vessel (lip to neck)	Figure A3.2 -weight: 13.4 gr -sherd count: 1 rim -surface treatment: exterior, interior and lip—SM -details: flat, beveled-out lip with slightly out-flaring rim -exterior decoration (incomplete): zone 1single band of VE CWC-? stamps [upper rim] zone 2rows of HO CWC-? stamps [neck-?] interior decoration (incomplete): zone 1single band of RO CWC-? stamps over single band of VE CWC-? stamps [upper rim-lower neck] zone 2-undecorated [upper shoulder-?] -lip decoration: RO CWC-? stamps -measurements: lip thickness—9.3 mm; upper rim thickness—9.7 mm; neck thickness—8.9 mm; shoulder thickness—n/a; upper rim height—15.2 mm
12	Feature 7c (#740)	reconstructed vessel (lip to upper body)	Figure A3.3; Plate 4.6 -weight: 186.2 gr -sherd count: 2 rim, 2 neck, 2 neck/shoulder, 5 shoulder -surface treatment: exterior-SM [decorative zone] over CM [body]; interior and lip-SM -details: round lip with out-flaring rim -exterior decoration (complete): zone 1-single band of RO CWS-s stamps [upper rim], which is superimposed by a single a band of short VE CWS-s stamps just below the lip edge zone 2-rows of HO CWS-s stamps [neck-upper shoulder] zone 3undecorated zone [lower shoulder-?] CP -top of zone 2 [neck] -interior decoration (complete): zone 1single band of RO CWS-s stamps [upper rim] zone 2undecorated zone [neck-?] BO-top of zone 2 [neck] -lip decoration: VE CWS-s stamps -measurements: lip thickness-8.3 mm; upper rim thickness-10.3 mm; neck thickness-11.3 mm; shoulder thickness-14.5 mm; body thickness-7.1 mm; upper rim height-21.1 mm; rim-punctate-20.5 mm; diameter-14 cm

Vessel #	Provenience (Cat#)	Nature of Vessel	Description of Specimen
13	Feature 7c (#741)	rim vessel (lip to upper shoulder)	Figure A3.3; Plate 4.11 -weight: 34.1 gr -sherd count: 1 rim and 1 neck -surface treatment: exterior—SM [decorative zone] over CM [neck] over SM [decorative zone]; interior—SM (but mostly sloughed); lip—SM -details: flat, beveled-out lip with out-flaring rim -exterior decoration (incomplete): zone 1—single band of RO CWS-s stamps [upper rim] zone 2undecorated zone over rows of HO CWS-s stamps [neck-upper shoulder], over rows of RO CWS-s stamps [upper shoulder-?] CP—top of zone 2 [neck]interior decoration (undetermined): zone 1-single band of VE CWS-s stamps [upper rim] zone 2undecorated (but largely sloughed) zone [neck-?] BO—top of zone 2 [neck]lip decoration: VE CWS-s stampsmeasurements: lip thickness—9.1 mm; upper rim thickness—8.0 mm; neck thickness—n/a; shoulder thickness—n/a; upper rim height—9.1 mm; rim-punctate distance—16.3 mm; diameter—24 cm
. 14	Feature 8 (#839)	reconstructed vessel with associated reconstructed portions (lip to upper body)	Figure A3.3; Plate 4.8 -weight: 214.1 gr -sherd count: 8 rim, 1 fragmentary rim, 1 neck, 6 shoulder -surface treatment: exterior-SM [decorative zone] over CM [body]; interior and lip-SM -details: flat lip with out-flaring rim; interior carbon encrustation at upper rim -exterior decoration (complete): zone 1band of RO CWS-s stamps [upper rim], which is superimposed by a single band of very short VE CWS-s stamps at the lip juncture zone 2RO plats of HO CWS-s stamps opposed with LO plats of RO CWS-s stamps [neck-upper shoulder], over rows of HO CWS-s stamps [lower shoulder] zone 3undecorated zone [upper body-?] CP -zone 1/2 boundary [neck] interior decoration (complete): zone 1-single band of CC (RO/LO) CWS-s stamps, over single band of RO CWS-s s stamps [upper rim-neck], which is superimposed by a single band of very short VE CWS-s stamps at the lip juncture] zone 2undecorated zone [upper shoulder-?] BO-base of zone 1 [neck] lip decoration: interrupted HO CWS-s stamps measurements: lip thickness-7.4 mm; upper rim thickness-7.7 mm; neck thickness- 7.3 mm; shoulder thickness-6.0 mm; body thickness-5.3 mm; upper rim height- 18.0 mm; rim-punctate distance-17.4 mm; diameter-20 cm
15	Feature 8 (#762)	reconstructed vessel with associated reconstructed portions (lip to upper body)	Figure A3.3; Plate 4.14 -weight: 673.3 gr -sherd count: 12 rim, 2 rim-neck, 5 neck, 53 shoulder -surface treatment: SM [decorative zorie] over CM [body]; interior and lip—SM -details: flat lip with out-flaring rim -exterior decoration (complete): zone 1—single band of RO CWC-s stamps, over band of RO CWC-s dragged stamps [upper rim] zone 2—rows of HO CWC-s stamps [neck-upper shoulder], over LO plats of HO CWC-s stamps [lower shoulder-upper body] zone 3undecorated zone [upper body-?] • CP—top of zone 2 [neck] -interior decoration (complete): zone 1band of CC (RO/LO) CWC-s stamps [upper rim] zone 2undecorated zone [neck-?] BO-zone 2 [neck] -lip decoration—RO CWC-s stamps -measurements: lip thickness—9.2 mm; upper rim thickness—9.6 mm; neck thickness— 8.4 mm; shoulder thickness—5.5 mm; body thickness—5.7 mm; upper rim height— 12.4 mm; rim-punctate distance—18.4 mm; diameter—22 cm

Vessel#	Provenience (Cat#)	Nature of Vessel	Description of Specimen
16	Feature 8 (#771)	reconstructed vessel with associated reconstructed portions (lip to lower shoulder)	Figure A3.3; Plate 4.13 -weight: 782.6 gr -sherd count: 9 rim, 4 fragmentary rim, 3 neck, 71 shoulder, body fragments -surface treatment: exterior, interior and lip-SM -details: flat lip with out-flaring, expanding rim; incipient pointed castellation -exterior decoration (incomplete): zone 1single band of RO CWC-s stamps [upper rim and castellation], over single band of VE CWC-s stamps [upper neck], both of which are superimposed by a single band of short RO CWC-s stamps zone 2rows of HO CWC-s stamps [lower neck-upper shoulder], over VE plats of RO CWC-s stamps [upper shoulder-?] CP -base of zone 1 [neck] -interior decoration (complete): zone 1single band of RO CWC-s stamps [upper rim and castellation], over single band of VE CWC-s stamps [upper neck] zone 2undecorated zone [neck-?] BO-top of zone 2 [neck] -lip decoration: VE CWC-s stamps, but undecorated at castellation -measurements: lip thickness-12.0 mm; upper rim thickness-11.6 mm; neck thickness-8.6 mm; shoulder thickness-6.5 mm; body thickness-6.8 mm; upper rim height-28.2 mm; rim-punctate distance-30.2 mm; diameter22 cm
17	Feature 8 (#778)	reconstructed vessel with associated reconstructed portions (lip to base)	Figure A3.3; Plate 4.10 -weight: 1267.8 gr -sherd count: 4 rim, 1 neck, 11 shoulder, 41 body, 2 base -surface treatment: exterior—SM [decorative zone to upper shoulder] over CM [lower shoulder to base]; interior and lip—SM -details: flat lip with out-flaring, expanding rim; incipient pointed castellation; semiconical base -exterior decoration (complete): zone 1band of RO CWC-s stamps [upper rim and castellation], over band of VE CWC-s stamps [neck] zone 2-panel of angled rows (HO/RO) of CWC-s stamps [lower neck-upper shoulder], over LO plats of RO CWC-s stamps [lower shoulder-upper body] zone 3undecorated zone [lower body-?] CP -zone 1 [neck] -interior decoration (complete): zone 1two bands of RO CWC-s stamps [upper rim-upper neck and castellation] zone 2undecorated zone [neck-?] BO-zone 1/2 boundary [neck] -lip decoration: VE CWC-s stamps -measurements: lip thickness-12.3 mm; upper rim thickness-12.0 mm; neck thickness -7.3 mm; shoulder thickness-6.0 mm; body thickness-5.2 mm; base thickness-16.2 mm; upper rim height-27.7 mm; rim-punctate dist25.6 mm; diameter-26 cm
18	Feature 8 (#785)	rim vessel (lip to upper shoulder)	Figure A3.2; Plate 4.7 -weight: 130.3 gr -sherd count: 2 rim, 2 fragmentary rim, 1 neck, 1 shoulder -surface treatment: exterior, interior and lip—SM -details: flat lip with out-flaring rim -exterior decoration (incomplete): zone 1-single band of CC (RO/LO) CWS-s stamps [upper rim-upper neck] zone 2rows of HO CWS-s stamps [lower neck-?] CP -top of zone 2 [lower neck] -interior decoration (complete): zone 1-single band of CC (RO/LO) CWS-s stamps [upper rim] zone 2undecorated zone [neck-?] BO-zone 2 [neck] lip decoration: RO CWS-s stamps -measurements: lip thickness-6.1 mm, upper rim thickness-6.5 mm, neck thickness-9.1 mm; shoulder thickness-7.0 mm; upper rim height-13.4 mm; rim-punctate distance-28.2 mm; diameter-30 cm
19	eliminated		

Vessel#	Provenience (Cat#)	Nature of Vessel	Description of Specimen
20	Feature 8 (#863)	rim vessel (lip to upper shoulder)	Figure A3.2 -weight: 14.6 gr -sherd count: 2 rim, 2 neck -surface treatment: exterior, interior and lip—SM -details: round lip with slightly out-flaring rim with incipient rounded castellation -exterior decoration (incomplete): zone 1-single band of VE CWC-s stamps [upper rim and castellation], the base of which is superimposed by a single band of very short RO CWC-s stamps zone 2rows of HO CWC-s stamps [upper neck-?] CP -zone 2 [neck]interior decoration (complete): zone 1-single band of RO CWC-s stamps [upper rim and castellation] zone 2undecorated zone [neck-?] BO-zone 2 [neck]lip decoration: RO CWC-s stampsmeasurements: lip thickness-7.4 mm; upper rim thickness-8.0 mm; neck thickness-7.5 mm; shoulder thickness-7.6 mm; upper rim height-11.5 mm; rim punctate distance-15.6 mm; diameter-16 cm
21	Feature 8 (#754)	rim vessel (lip to neck)	Figure A3.2 -weight: 13.8 gr -sherd count: 1 nm -surface treatment: exterior—SM [decorative zone] except for a small zone of cord or fabric-marking at the base of zone 1 [upper rim]; interior and lip—SM -details: flat, bevelled-in lip with vertical rim -exterior decoration (incomplete): zone 1single band of VE CWS-s stamps [upper rim] zone 2rows of HO CWS-s [neck-?] CP -zone 2 [neck] -interior decoration (complete): zone 1two bands of RO CWS-s stamps [upper rim] zone 2undecorated zone [neck-?] BO-zone 2 [neck] -lip decoration: LO CWS-s stamps -measurements: lip thickness—8.3 mm; upper rim thickness—6.3 mm; neck thickness—6.0 mm; shoulder thickness—n/a; upper rim height—19.9 mm; rim-punctate distance—29.2 mm
22	Feature 8 (#787)	rim vessel (lip to upper shoulder)	Figure A3.2 -weight: 17.7 mm -sherd count: 1 rim -surface treatment: exterior, interior and lip-SM -details: flat lip with slightly out-flaring rim -exterior decoration (incomplete): zone 1-single band of CC (RO/LO) CWS-s stamps [upper rim] zone 2-at least 2 rows of HO CWS-s stamps [neck-?] CP -top of zone 2 [neck] -interior decoration (complete): zone 1single band of CC (RO/LO) CWS-s stamps [upper rim] zone 2undecorated zone [neck-?] BO-zone 2 [neck] -lip decoration: RO CWS-s stamps -measurements: lip thickness-5.9 mm; upper rim thickness-7.1 mm; neck thickness-8.6 mm; shoulder thickness-9.9 mm; upper rim height-14.9 mm; rim-punctate distance-27.4 mm; diameter-24 cm

Vessel #	Provenience (Cat#)	Nature of Vessel	Description of Specimen
23	Feature 8 (#788)	rim vessel (lip to upper shoulder)	Figure A3.2 -weight: 10.0 gr -sherd count: 1 rim -surface treatment: exterior and lip-SM, interior-SM, but mostly sloughed -details: flat, protruding lip with vertical rim; heavily exfoliated -exterior decoration (incomplete): zone 1-single band of RO CWS-s stamps [upper rim] zone 2at least one row of HO CWS-s stamps [neck-?] CP -top of zone 2 [neck] -interior decoration (undetermined): zone 1-partial band of VE CWS-s stamps [upper rim?] zone 2undetermined [neck-?] BO-undetermined, sloughed awaylip decoration: VE then RO CWS-s stamps -measurements: lip thickness-10.4 mm; upper rim thickness-8.9 mm; neck and shoulder thickness-n/a; upper rim height-18.2 mm; rim-punctate distance-29.4 mm
24	Feature (#812)	rim vessel (lip to upper shoulder)	Figure A3.5; Plate 4.9 -weight: 40.5 gr -sherd count: 1 rim, 2 neck -surface treatment: exterior and interior—SM; lip—undetermined -details: round lip with slightly out-flaring rim -exterior decoration (incomplete): zone 1—single band of CC (RO/LO) CWC-s stamps [upper rim] zone 2closely-spaced LO plats of HO CWC-s stamps [neck-?] CP—top of zone 2 [neck] interior decoration (complete): zone 1—single band of RO CWC-s stamps [upper rim] zone 2undecorated zone [neck-?] BO—zone 2 [neck] lip decoration: undetermined -measurements: lip thickness—7.0 mm; upper rim thickness—9.8 mm; neck thickness—9.4 mm; shoulder thickness—11.5 mm; upper rim height—19.9 mm; rim-punctate distance—28.0 mm
25	Feature 8 (#789)	rim vessel (lip to neck)	Figure A3.2 -weight: 6.9 gr -sherd count: 1 fragmentary rim -surface treatment: exterior, interior and lip—SM -details: round lip with slightly out-flaning, thinned rim; incipient pointed castellation; possible coil break -exterior decoration (incomplete): zone 1-single band of RO CWC-s stamps [upper rim], the base of which is super-imposed by a band of short LO CWC-s stamps zone 2at least one row of HO CWC-s stamps [neck-?] CP -top of zone 2 [neck] -intenor decoration (complete): zone 1single band of CC (RO/LO) CWC-s stamps [upper rim] zone 2undecorated zone [neck-?] BO-zone 2 [neck] lip decoration: RO CWC-s stamps measurements: lip thickness-4.5 mm; upper rim thickness-5.2 mm; neck thickness-7.0 mm; shoulder thickness-n/a; upper rim height-8.3 mm; rim-punctate distance-19.2 mm

Vessel#	Provenience (Cat#)	Nature of Vessel	Description of Specimen
26	Feature 8 (#790)	rim vessel (lip to neck)	Figure A3.2weight: 20.9 grsherd count: 3 fragmentary rimsurface treatment: exterior, interior and lip—SMdetails: flat lip with out-flaring rim; possible coil breakexterior decoration (incomplete): zone 1—2 bands of RO CWS-s stamps [upper rim-upper neck] zone 2at least 2 rows of HO CWS-s stamps [lower neck-?] CP—zone 1/2 boundary [upper neck]interior decoration (complete): zone 1-single band of CC (RO/LO) CWS-s stamps [upper rim] zone 2undecorated zone [neck-?] BO—zone 2 [neck]lip decoration: RO CWC-s stampsmeasurements: lip thickness—7.4 mm; upper rim thickness—8.4 mm; neck thickness—10.0 mm; shoulder thickness—n/a; upper rim height—9.8 mm; rim-punctate distance—20.0 mm
27	Feature 8 (#864)	rim vessel (lip to upper shoulder)	Figure A3.2 -weight: 22.3 gr -sherd count: 1 rim -surface treatment: exterior, interior and lip—SM -details: flat lip with out-flaring, thickened (by appliqué) rim -exterior decoration (incomplete): zone 1-single band of RO CWC-s stamps [upper rim] zone 2undecorated zone over rows of HO CWC-s stamps [neck-?] CP -top of zone 2 [neck] -interior decoration (complete): zone 1-single band of RO CWC-s stamps [upper rim], over 2 bands of short LO "s" twist corded punctates [neck] zone 2undecorated zone [lower neck-?] BO-top of zone 2 [lower neck] -lip decoration: CC (RO/LO) CWC-s stamps -measurements: lip thickness-9.0 mm; neck thickness-8.3 mm; neck thickness-10.9 mm; shoulder thickness-6.6 mm; upper rim height-7.0 mm; rim-punctate distance-14.0 mm
28	Feature (#927)	rim vessel (lip to upper shoulder)	Figure A3.2 -weight: 6.2 gr -sherd count: 1 rim -surface treatment: exterior, interior and lip—SM -details: flat lip with vertical rim; incipient pointed castellation -exterior decoration (incomplete): zone 1-single band of RO CWS-s stamps [upper rim and castellation] zone 2-rows of HO CWS-s stamps [neck-?] CP -zone 2 [neck] -interior decoration (complete): zone 1single band of RO CWS-s stamps [upper rim and castellation] zone 2undecorated zone [neck-?] BO-zone 2 [neck] -lip decoration: interrupted HO CWS-s stamps (possibly just around castellation) -measurements: lip thickness-8.1 mm; upper rim thickness-8.6 mm; neck thickness-6.0 mm; shoulder thickness-n/a; upper rim height-15.0 mm; rim-punctate distance-14.6 mm

Vessel #	Provenience (Cat#)	Nature of Vessel	Description of Specimen
29	Feature 8 (#928)	rim vessel (lip to upper shoulder)	Figure A3.2; Plate 4.7 -weight: 26.6 gr -sherd count: 2 rim -surface treatment: exterior, interior and lip—SM -details: flat lip with slightly out-flaring rim -exterior decoration (incomplete): zone 1-2 bands of RO CWS-s stamps [upper rim-upper neck] zone 2rows of HO CWS-s stamps [neck-?] CP -top of zone 2 [lower neck] -interior decoration (complete): zone 1-single band of VE CWS-s stamps [upper rim], which is superimposed by a band of short RO CWS-s stamps at the lip juncture, single band of RO CWS-s stamps [neck] zone 2undecorated zone [lower neck-?] BO-zone 2 [lower neck] -lip decoration: RO CWS-s stamps [also RO CWS-s stamps at lip edge] -measurements: lip thickness-7.8 mm; upper rim thickness-6.8 mm; neck thickness-7.1 mm; shoulder thickness-6.7 mm; upper rim height-19.5 mm; rim-punctate distance-19.0 mm; diameter-19 cm
30	Feature 8 (#929)	rim vessel (lip to upper shoulder)	Figure A3.1; Plate 4.1 -weight: 74.7 gr -rim count: 1 rim -surface treatment: exterior-SC, interior and lip-SM -details: flat lip with out-flaring rim -exterior decoration (incomplete): zone 1-undecorated zone [upper rim] zone 2rows of HO CWS-z stamps [neck-?] RO oval punctates (OP)-base of zone 1 [upper rim] -interior decoration (complete): zone 1-single row of RO CWS-z stamps [upper rim] zone 2undecorated zone [neck-?] BO-top of zone 2 [upper rim] -lip decoration: VE CWS-z stamps -measurements: lip thickness-6.1 mm; upper rim thickness-7.3 mm; neck thickness-8.9 mm; shoulder thickness-6.0 mm; upper rim height-9.8 mm; rim-punctate distance-11.8 mm; diameter-16 cm
31	Feature 8 (#791)	reconstructed vessel (lip to lower body)	Figure A3.3; Plate 4.4 -weight: 1599.7 gr -sherd count: 10 nim, 8 neck, 23 shoulder, 54 body -surface treatment: exterior—SM [decorative zone] over CM [body]; interior and lip—SM -details: splayed lip with out-flaring rim -exterior decoration (complete): zone 1-single band of RO CWS-s stamps [upper rim] zone 2rows of HO CWS-s stamps [neck-upper shoulder] zone 3undecorated zone [lower shoulder-?] CP -top of zone 2 [neck] -interior decoration (complete): zone 1-single band of RO CWS-s stamps [upper rim] zone 2undecorated zone [neck-?] BO-zone 2 [neck] -lip decoration: row of HO CWS-s stamps -measurements: lip thickness-10.1 mm; upper rim thickness-8.6 mm; neck thickness-7.5 mm; shoulder thickness-8.4 mm; body thickness-7.7 mm; upper rim height-15.8 mm; rim-punctate distance-18.0 mm; diameter-21 cm

Vessel #	Provenience (Cat#)	Nature of Vessel	Description of Specimen ·
32	Feature 8 (#801)	reconstructed vessel (lip to lower body)	Figure A3.4; Plate 4.3 -weight: 2,197.1 gr -sherd count: 6 rim, 9 neck, 18 shoulder, 30 body -surface treatment: exterior—SM [decorative zone] over SC [lower shoulder-body]; interior—SM [decorative zone] over CM [neck-upper shoulder] over SC [lower shoulder-body], ipp—SM -details: flat lip with out-flaring rim; incipient pointed castellations (scalloped) -exterior decoration (complete): zone 1-single band of CC (RO/LO) CWS-? stamps [upper rim and castellation] zone 2decorative zone (or panel) consisting of a single row of HO CWS-? stamps over nested right angle rows of CWS-? stamps over another single row of HO CWS-? stamps [lower shoulder], over LO plats of HO CWS-? stamps [lower shoulder] zone 3undecorated zone [upper body-?] CP -top of zone 2 [lower neck] -interior decoration (complete): zone 1-single band of CC (RO/LO) CWS-? stamps [upper rim and castellation] zone 2undecorated zone [neck-?] BO-zone 2 [lower neck] -lip decoration: LO CWS-? stamps -measurements: lip thickness-7.8 mm; upper rim thickness-9.3 mm; neck thickness-8.7 mm; shoulder thickness-7.8 mm; body thickness-8.4 mm; upper rim height-26.9 mm; rim-punctate distance-31.8 mm; distance between castellations-73.2 mm; diameter-26 cm; height-40.5 cm
33	Feature 11 (#1008)	rim vessel (lip to upper shoulder)	Figure A3.1; Plate 4.1 -weight: 12.9 gr -sherd count: 1 rim -surface treatment: exterior-CM [upper rim] over SM [decorative zone]; interior and lip—SM -details: round lip with out-flaring rim -exterior decoration (incomplete): zone 1undecorated zone [upper rim] zone 2rows of HO CWS-s stamps [neck-?] CP -zone 2 [lower neck] interior decoration (complete): zone 1-single band of short RO CWS-s stamps [upper rim], over single band of RO (nearly VE) CWS-s stamps [neck] zone 2undecorated zone [lower neck-?] BO-top of zone 2 [lower neck] lip decoration: LO CWS-s stamps [exterior lip edge] superimposed with short RO CWS-s stamps measurements: lip thickness-7.5 mm; upper rim thickness-6.1 mm; neck thickness-5.7 mm; shoulder thickness-4.7 mm; upper rim height-7.3 mm; rim-punctate distance-20.4 mm
34	Feature 68 (#1079)	rim vessel (lip to upper shoulder)	Figure A3.2; Plate 4.7 -weight: 40.2 gr -sherd count: 1 rim, 1 neck -surface treatment: exterior and lip—SM; interior—SM, but mostly sloughed details: round lip with slightly out-flaring, thickened (by appliqué) rim -exterior decoration (incomplete): zone 1-single band of RO CWS-s stamps [upper rim] zone 2-rows of HO CWS-s stamps [neck-?] CP -zone 2 [lower neck] interior decoration (undetermined): zone 1partial band of RO CWS-s stamps [upper rim?] zone 2-undetermined [neck?] BO-zone 2 [lower neck] lip decoration. RO CWS-s stamps measurements: lip thickness-12.4 mm; upper rim thickness-n/a; neck thickness-n/a; shoulder thickness-8.3 mm; upper rim height-15.8 mm; rim-punctate distance-23.6 mm

Vessel #	Provenience (Cat#)	Nature of Vessel	Description of Specimen
35	Feature 68 (#1080)	rim vessel with associated sherds (lip to upper body)	Figure A3.3; Plate 4.2 —weight: 101.3 gr —sherd count: 1 rim, 1 neck, 7 shoulder —surface treatment: exterior—SC [decorative zone] over CM [body]; interior and lip—SM —details: flat lip with slightly out-flaring rim —exterior decoration (complete): zone 1—single band of VE CWS-s stamps [upper rim] zone 2—decorative zone consisting of two rows of HO CWS-s stamps over zone of rows of opposed (LO/RO/VE) CWS-s stamps [neck-upper shoulder], over LO plats of HO CWS-s oblique stamps [lower shoulder] zone 3—undecorated zone [upper body-?] CP—top of zone 2 [neck] —interior decoration (undetermined): zone 1—partial band of VE CWS-s stamps [upper rim?] zone 2—zone of undetermined decoration [lower neck-?] BO—zone 2 [neck] —lip decoration: RO CWS-s stamps —measurements: lip thickness—4.4 mm; upper rim thickness—5.5 mm; neck thickness— n/a; shoulder thickness—7.6 mm; body thickness—5.7 mm; upper rim height—11.7 mm; rim-punctate distance—14.8 mm
36	Feature 68 (#1082)	rim vessel (lip to lower shoulder)	Figure A3.3 -weight: 32.2 gr -sherd count: 2 fragmentary rim, 1 neck, 3 shoulder -surface treatment: exterior, interior and lip-SM -details: flat lip with slightly out-flaring, thickened rim -exterior decoration (incomplete): zone 1-2 bands of short RO CWS-s stamps [upper rim] zone 2rows of HO CWS-s stamps [neck-upper shoulder], over LO plats of HO CWS-s stamps [lower shoulder-?] CP -top of zone 2 [upper shoulder]interior decoration (undetermined): zone 1single band of CC (RO/LO) CWS-s stamps [upper rim] zone 2undecorated zone [neck-?] BO-zone [undetermined] -lip decoration: RO CWS-s stamps -measurements: lip thickness-8.0 mm; upper rim thickness-6.9 mm; neck thickness-6.4 mm; shoulder thickness-7.4 mm; upper rim height-8.5 mm; rim-punctate distance-21.8 mm
37	Feature 68 (#1084)	rim vessel (lip to upper shoulder)	Figure A3.1 -weight: 12.1 gr -sherd count: 1 rim -surface treatment: exterior and lip—SM; interior—SM [decorative zone] over combed or parallel incised lines (CO) -details: flat lip with slightly out-flaring, thickened (by appliqué) rim -exterior decoration (incomplete): zone 1-single band of RO CWC-s stamps [upper rim] zone 2-partial rows of RO CWC-s stamps [neck-?] BO—top of zone 2 [upper shoulder] -interior decoration (complete): zone 1-single band of CC (RO/LO) CWC-s stamps [upper rim] zone 2-undecorated zone [neck-?] CP -zone 2 [upper shoulder] -lip decoration: row of HO CWS-s stamps -measurements: lip thickness—11.1 mm; upper rim thickness—9.9 mm; neck thickness -9.6 mm; shoulder thickness—9.7 mm; upper rim height—12.2 mm; rim-punctate distance—19.7 mm

Vessel#	Provenience (Cat#)	Nature of Vessel	Description of Specimen
38	Feature 68 (#1090)	rim vessel with associated sherds (lip to upper shoulder)	Figure A3.3 -weight: 27.0 gr -sherd count: 1 rim, 3 fragmentary rim, 1 neck -surface treatment: exterior.—SM [decorative zone] over CM [body]; interior.—SM; lip.— SM [except for CM on interior edge]details: flat lip with vertical, expanding rim -exterior decoration (incomplete): zone 1-single band of RO CWS-? stamps [upper rim] zone 2-at least 2 rows of HO CWS-? stamps [neck-?] BO-top of zone 2 [neck?] -interior decoration (complete): zone 1-single band of RO CWS-? stamps [upper rim] zone 2undecorated zone [neck-?] CP -zone 2 [neck]lip decoration: RO CWS-? stampsmeasurements: lip thickness-9.0 mm; upper rim thickness-7.7 mm; neck thickness-6.5 mm; shoulder thickness-5.7 mm; upper rim height-11.5 mm; rim-punctate distance-15.5 mm
39	Feature 68 (#1091)	rim vessel with associated sherds (lip to lower shoulder)	Figure A3.3 -weight: 20.3 gr -sherd count: 1 rim, 2 fragmentary rim, 2 neck -surface treatment: exterior, interior and lip—SM -details: round lip with out-flaring rim; incipient pointed castellation -exterior decoration (incomplete): zone 1-single band of RO CWS-? stamps [upper rim and castellation] zone 2rows of RO linear (LI) corded punctates (knots?) over VE plats of HO corded punctates [neck-upper shoulder], over rows of HO CWS-? stamps [upper shoulder-?] OP -top of zone 2 [neck]interior decoration (complete): zone 1-short band of LO CWS-? stamps [upper rim just below lip edge and castellation] zone 2undecorated zone [upper rim-?] BO-zone 2 [neck]lip decoration: VE CWS-? stampsmeasurements: lip thickness-5.1 mm; upper rim thickness-5.6 mm; neck thickness-5.3 mm; shoulder thickness-5.6 mm; upper rim height-10.2 mm; rim-punctate distance-15.4 mm
40	Feature 69 (#1111)	nm vessel (lip to neck)	Figure A3.1; Plate 4.1 -weight: 13.2 gr -sherd count: 1 rim -surface treatment: exteriorCM; interior-SM; lip-woven cord (net?) -details: flat lip with expanding, probably in-sloping rim -exterior decoration (incomplete): zone 1-undecorated zone [upper rim-?] CP -zone 1 [neck?] -interior decoration (incomplete): zone 1single band of VE CWS-s stamps [upper rim] zone 2-undecorated zone [neck-?] BO-base of zone 1 [neck] -lip decoration: undecorated -measurements: lip thickness-11.5 mm; upper rim thickness-12.0 mm; neck thickness-10.7 mm; shoulder thickness-n/a; upper rim height-n/a; rim-punctate distance-21.7 mm

Vessel #	Provenience (Cat#)	Nature of Vessel	Description of Specimen
41	Feature 69 (#1112)	rim vessel (lip to neck)	Figure A3.2 -weight: 9.0 gr -sherd count: 1 rim -surface treatment: exterior, interior and lipSM -details: flat, beveled-out lip with slightly out-flaring rim; rising to castellation -exterior decoration (incomplete): zone 1-single band of RO CWS-s stamps [upper rim and castellation] zone 2rows of HO CWS-s stamps [neck-?] BO-zone 1/2 boundary [neck] -interior decoration (complete): zone 1single band of RO CWS-s stamps [upper rim and castellation] zone 2undecorated zone [neck-?] CP -top of zone 2 [neck] -lip decoration: RO CWS-s stamps (angle varies over the castellation) -measurements: lip thickness-8.9 mm; upper rim thickness-8.6 mm; neck thickness-8.8 mm; shoulder thickness-n/a; upper rim height-11.9 mm; rim-punctate distance -13.2 mm
42	Feature 69 (#1113)	rim vessel (lip to upper shoulder)	Figure A3.5 -weight: 15.8 gr -sherd count: 1 rim, 1 shoulder -surface treatment: exterior, interior and lip—SM -details: flat lip with slightly out-flaring rim -exterior decoration (incomplete): zone 1-single band of VE CWC-s stamps [upper rim] zone 2LO plats of RO CWC-s stamps [upper neck-?] CP—top of zone 2 [neck] -interior decoration (complete): zone 1-single band of LO CWC-s stamps [upper rim] zone 2undecorated zone [neck-?] BO-top of zone 2 [neck] -lip decoration: VE CWC-s stamps -measurements: lip thickness—7.1 mm; upper rim thickness—6.6 mm; neck thickness—7.5 mm; shoulder thickness—n/a; upper rim height—13.5 mm; rim-punctate distance -15.1 mm
43	Feature 69 (#1114)	rim vessel with associated sherds (lip to neck)	Figure A3.5 -weight: 12.9 gr -sherd count: 3 fragmentary rim -surface treatment: exterior, interior and lip—SM -details: flat lip with vertical, thinned rim; incipient rounded castellation -exterior decoration (incomplete): zone 1-single band of RO CWS-s stamps [upper rim and castellation] zone 2plats of RO CWS-s stamps [upper neck-?] CP -base of zone 1 [neck] -interior decoration (complete): zone 1-single band of RO CWS-s stamps [upper rim and castellation] zone 2undecorated zone [neck-?] -lip decoration: row of HO CWS-s stamps -measurements: lip thickness-4.5 mm; upper rim thickness-6.0 mm; neck thickness-6.5 mm; shoulder thickness-n/a; upper rim height-7.3 mm; rim-punctate distance-13.3 mm

Vessel #	Provenience (Cat#)	Nature of Vessel	Description of Specimen
44	Feature 69 (#1115)	rim vessel (lip to neck)	Figure A3.2 -weight: 4.8 gr -rim count: 1 fragmentary rim -surface treatment: exterior, interior and lip—SM -details: flat lip with vertical, slightly expanding rim -exterior decoration (incomplete): zone 1-single band of VE CWC-? stamps [upper rim] zone 2at least 2 rows of HO CWC-? stamps [neck-?] CP -top of zone 2 [neck] interior decoration (complete): zone 1-single band of RO CWC-? stamps [upper rim] zone 2undecorated zone [neck-?] BO-zone 2 [neck] lip decoration: closely-spaced RO CWC-? stamps -measurements: lip thickness—7.6 mm; upper rim thickness—6.9 mm; neck thickness—5.8 mm, shoulder thickness—n/a; upper rim height—8.6 mm; rim-punctate distance—14.0 mm
45	Feature 69 (#1116)	rim vessel with associated sherds (lip to neck)	Figure A3.2 -weight: 27.4 gr -sherd count: 4 fragmentary rim, 1 neck -surface treatment: exterior, interior and lipSM -details: flat, beveled-out lip with slightly out-flaring rim; heavily exfoliated -exterior decoration (incomplete): zone 1-2 bands of VE (or nearly VE) CWS-? stamps [upper rim-upper neck] zone 2at least one row of HO CWS-? stamps [lower neck-?] CP -top of zone 2 [lower neck]interior decoration (undetermined): zone 1-partial band of RO CWS-? stamps [upper rim] zone 2-undetermined [neck-?] BO-zone 2 [lower neck]lip decoration: RO CWS-? stampsmeasurements: lip thickness-7.2 mm; upper rim thickness-8.4 mm; neck thickness- n/a; shoulder thickness-n/a; upper rim height-14.3 mm; rim-punctate distance- 21.0 mm
46	Feature 69 (#1117)	rim vessel (lip to neck)	Figure A3.5 -weight: 5.2 gr -sherd count: 2 fragmentary rim -surface treatment: exterior, interior and lip—SM -details: round lip with vertical, slightly thickened rim -exterior decoration (incomplete): zone 1-single band of short VE CWC-? stamps [upper rim], which is superimposed by a single band of very short RO CWC-? stamps at the lip juncture zone 2-rows of RO CWC-? separated by RO plats of RO CWC-? stamps [neck-?] interior decoration (complete): zone 1single band of RO CWC-? stamps [upper rim] zone 2undecorated zone [neck-?] lip decoration: undecorated [except for exterior lip edge] measurements: lip thickness—5.3 mm; upper rim thickness—5.5 mm; neck thickness— 3.8 mm; shoulder thickness—n/a; upper rim height—5.4 mm; rim-punctate distance- n/a

Vessel #	Provenience (Cat#)	Nature of Vessel	Description of Specimen
47	Feature 69 (#1118)	rim vessel (lip to upper shoulder)	Figure A3.2; Plate 4.7 -weight: 42.0 gr -sherd count: 2 rim, 1 neck -surface treatment: exterior, interior and lip—SM -details: round lip with out-flaring, thickened rim -exterior decoration (incomplete): zone 1-single band of RO CWC-s stamps [upper rim] zone 2rows of HO CWC-s stamps [neck-?] CP—zone 2 [lower neck] -interior decoration (complete): zone 1-single band of RO CWC-s stamps [upper rim], which is superimposed by a single band of short VE CWC-s stamps at the lip juncture zone 2undecorated zone [neck-?] BO—zone 2 [upper shoulder]lip decoration: undecorated [except for interior lip edge]measurements: lip thickness—8.6 mm; upper rim thickness—8.0 mm; neck thickness—7.8 mm; shoulder thickness—8.4 mm; upper rim height—18.4 mm; rim-punctate distance—23.7 mm; diameter—28 cm
48	Feature 69 (#1119)	rim vessel (lip to upper shoulder)	Figure A3.2 -weight: 8.8 gr -sherd count: 1 rim -surface treatment: exterior, interior and lip—SM -details: slightly rounded lip with slightly out-flaring rim; exfoliated rim -exterior decoration (incomplete): zone 1single band of RO CWS-s stamps [upper rim] zone 2-rows of HO CWS-s stamps [neck-?] CP -zone 2 [neck] interior decoration (undetermined): zone 1single band of VE CWS-s stamps [upper rim] zone 2undecorated zone [neck-?] BO-zone 2 [neck] lip decoration: VE CWS-s stamps -measurements: lip thickness-8.8 mm; upper rim thickness-9.4 mm; neck thickness- n/a; shoulder thickness-n/a; upper rim height-12.3 mm; rim-punctate distance-11.5 mm
49	Feature 69 (#1120)	rim vessel with associated sherds (lip to upper shoulder)	Figure A3.3; Plate 4.11 -weight: 14.4 gr -sherd count: 2 rim, fragmentary rim, 5 shoulder -surface treatment: exteriorCM [upper rim] over SM [decorative zone]; interior and lip—SM -details: flat, protruding lip with slightly out-flaring rim -exterior decoration (incomplete): zone 1single band of RO CWC-? stamps [upper rim] zone 2-rows of HO CWC-? stamps separated by VE CWC-? stamps [neck-?]interior decoration (complete): zone 1single band of RO CWC-? stamps [upper rim] zone 2undecorated zone [neck-?]lip decoration: RO CWC-? stamps -measurements: lip thickness–5.1 mm; upper rim thickness–4.5 mm; neck thickness–5.1 mm; shoulder thickness–4.8 mm; upper rim height–8.3 mm; rim-punctate distance—n/a; diameter–10 cm

Vessel #	Provenience (Cat#)	Nature of Vessel	Description of Specimen
50	Feature 69 (#1121)	rim vessel (lip to upper shoulder)	Figure A3.2 -weight: 58.0 gr -sherd count: 1 rim, 3 fragmentary rim -surface treatment: exterior, interior and lip-SM -details: round lip with out-flaring, thickened rim -exterior decoration (incomplete): zone 1-single band of RO CWS-s stamps [upper rim] zone 2rows of HO CWS-s stamps [neck-?] CP -zone 2 [upper shoulder]interior decoration (incomplete): zone 1-single band of VE CWS-s stamps [upper rim], which is superimposed by a band of short RO CWS-s stamps just below the lip edge and widely spaced VE linear punctates (LP) at the lip juncture, over single band of LO CWS-s stamps [neck] zone 2undecorated [upper shoulder-?]lip decoration: RO CWS-s stamps [also interior lip juncture]measurements: lip thickness-10.3 mm; upper rim thickness-12.0 mm; neck thickness-11.0 mm; shoulder thickness-n/a; upper rim height-12.7 mm; rim-punctate distance-26.1 mm; diameter-28 cm
51	Feature 69 (#1122)	rim vessel (lip to neck)	Figure A3.2 -weight: 10.6 gr -sherd count: 1 rim, 1 fragmentary rim -surface treatment: exterior-SM, interior-SM, except for a narrow zone of cord- or fabric-marking just below lip edge; lip-SM -details: flat lip with vertical, thickened rim -exterior decoration (incomplete): zone 1-single band of VE CWS-s stamps, partially smoothed-over [upper rim], zone 2rows of HO CWS-s stamps [neck-?] BO-top of zone 2 [neck] -interior decoration (complete): zone 1-narrow undecorated zone [just below lip edge] over single band of VE CWS-s stamps [upper rim] zone 2undecorated zone [neck-?] CP -zone 2 [neck] -lip decoration: VE CWS-s stamps -measurements: lip thickness-8.2 mm; upper rim thickness-7.0 mm; neck thickness-6.2 mm; shoulder thickness-6.1 mm; upper rim height-13.3 mm; rim-punctate distance-18.2 mm
52	Feature 69 (#1123)	rim vessel (lip to upper shoulder)	Figure A3.2 -weight: 30.6 gr -sherd count: 2 rim -surface treatment: exterior, interior and lip-SM -details: flat lip with vertical, expanding rim -exterior decoration (incomplete): zone 1-single band of RO CWS-? stamps [upper rim] zone 2rows of HO CWS-? stamps [neck-?] CP -zone 2 [neck] -interior decoration (complete): zone 1-single band of RO CWS-? stamps [upper rim] zone 2undecorated zone [neck-?] BO-zone 2 [neck] -lip decoration: RO CWS-? stamps -measurements: lip thickness-8.7 mm; upper rim thickness-8.1 mm; neck thickness- 8.2 mm; shoulder thickness-7.3 mm; upper rim height-18.5 mm; rim-punctate distance-23.8 mm; diameter-28 cm

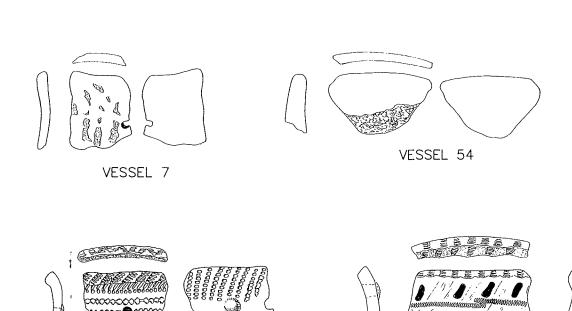
Vessel#	Provenience (Cat#)	Nature of Vessel	Description of Specimen
53	Feature 69 (#1124)	rim vessel (lip to upper shoulder)	Figure A3.2 -weight: 36.8 gr -sherd count: 2 fragmentary rim -surface treatment: exterior, interior and lipSM -details: round, folded-over (or appliqué) lip with out-flaring rim; incipient rounded castellation -exterior decoration (incomplete): zone 1-band of short RO CWS-s stamps [just below lip edge], over another band of RO CWS-s stamps [upper rim and castellation-upper neck] zone 2-at least one row of HO CWS-s stamps [lower neck-?] CP -top of zone 2 [upper shoulder] -interior decoration (complete): zone 1-single band of RO CWS-s stamps [upper rim and castellation] zone 2undecorated zone [neck-?] -lip decoration: RO CWS-s stamps -measurements: lip thickness-7.5 mm; upper rim thickness-7.0 mm; neck thickness-9.3 mm; shoulder thickness-7.5 mm; upper rim height-11.1 mm; rim-punctate distance-27.1 mm; diameter-32 cm
54	Feature 69 (#1125)	rim vessel (lip to neck)	Figure A3.1 -weight: 20.5 gr -sherd count: 1 rim -surface treatment: exterior, interior and lipSM -details: round lip with in-sloping, almost bowl-shaped rim -exterior decoration (complete): undecorated [upper rim-?] -interior decoration (complete): undecorated [upper rim-?]lip decoration: undecorated -measurements: lip thickness-8.0 mm; upper rim thickness-10.7 mm; neck thickness (25 mm below lip)-12.3 mm; upper rim height-n/a; diameter-30 cm
55	Feature 69 (#1161)	reconstructed vessel (lip to upper body)	Figure A3.3; Plate 4.15 -weight: 357.8 gr -sherd count: 2 rim, 6 fragmentary rim, 4 neck, 12 shoulder -surface treatment: exterior-SM [decorative zone] over CM [body]; interior and lip-SM -details: flat lip with out-flaring, thinned rim -exterior decoration (complete): zone 1-single band of RO CWS-s stamps [upper rim] zone 2rows of HO CWS-s stamps [neck-upper shoulder], over VE plats of HO CWS-s oblique stamps [lower shoulder] zone 3undecorated zone [upper body-?] CP -top of zone 2 [neck] -interior decoration (complete): zone 1-single band of RO CWS-s stamps [upper rim] zone 2undecorated zone [neck-?] BO-zone 2 [neck] -lip decoration: single row of HO CWS-s stamps -measurements: lip thickness-9.2 mm; upper rim thickness-9.3 mm; neck thickness-9.9 mm; shoulder thickness-6.8 mm; body thickness-7.5 mm; upper rim height-24.0 mm; rim-punctate distance-24.4 mm; diameter-20 cm

Vessel#	Provenience (Cat#)	Nature of Vessel	Description of Specimen
56	Feature 82A (#1210)	rim vessel (lip to upper shoulder)	Figure A3.3 -weight: 28.6 gr -sherd count: 1 rim, 1 neck -surface treatment: exterior, interior and lipSM -details: flat, beveled-out lip with slightly out-flaring rim; incipient rounded castellation -exterior decoration (incomplete): zone 1-single band of RO CWS-s stamps [upper rim and castellation] zone 2rows of HO CWS-s stamps [neck-upper shoulder], over rows of opposed (RO/LO) CWS-s stamps [lower shoulder-?] BO-top of zone 2 [neck] -interior decoration (complete): zone 1-single band of RO CWS-s stamps [upper rim and castellation] zone 2undecorated zone [neck-?] CP -zone 2 [neck] -lip decoration: LO CWS-s stamps -measurements: lip thickness-6.7 mm; upper rim thickness-7.9 mm; neck thickness-5.5 mm; shoulder thickness-6.6 mm; upper rim height-20.4 mm; rim-punctate distance-16.7 mm; diameter-24 cm
57	Feature 82B (#1211)	rim vessel (lip to upper shoulder)	Figure A3.5; Plate 4.9 -weight: 27.4 gr -sherd count: 1 nm -surface treatment: exterior and interior—SM, and lip—CM -details: flat lip with vertical rim -exterior decoration (incomplete): zone 1—single band of RO CWS-s stamps [upper nm] zone 2LO plats of RO CWS-s dragged stamps [neck-?] CP—zone 2 [neck] -interior decoration (complete): zone 1single band of RO CWS-s stamps [upper nm] zone 2undecorated zone [neck-?] BO—zone 2 [neck] -lip decoration: RO CWS-s stamps -measurements: lip thickness—9.0 mm; upper rim thickness—8.6 mm; neck thickness—8.5 mm; shoulder thickness—n/a; upper rim height—22.4 mm; rim-punctate distance—20.2 mm; diameter—22 cm
58	490-240, Post #4 (#669)	rim vessel and associated sherd (lip to upper body)	Figure A3.3 -weight: 115.3 gr -sherd count: 1 fragmentary rim, 1 neck/shoulder -surface treatment: exterior-SM [upper rim-neck] over SC [shoulder] over CM [body]; interior and lip-SM -details: flat lip with slightly out-flaring rim -exterior decoration (complete): zone 1-single band of RO CWS-s stamps [upper rim] zone 2rows of HO CWS-s stamps separated by a single band of long RO CWS-s stamps [neck-upper shoulder], over rows of HO CWS-s stamps separated by VE plats of RO CWS-s stamps [upper shoulder-upper body] zone 3undecorated zone [upper body-?] CP -top of zone 2 [neck] -interior decoration (incomplete): zone 1-single band of VE CWS-s stamps [upper rim] zone 2undecorated zone [neck-?] BO-top of zone 2 [neck] -lip decoration: single row of HO CWS-s stamps -measurements: lip thickness-9.2 mm; upper rim thickness-8.4 mm; neck thickness- 12.0 mm; shoulder thickness-10.8 mm; body thickness-7.8 mm; upper rim height- 6.6 mm; rim-punctate distance-15.6 mm

Vessel#	Provenience (Cat#)	Nature of Vessel	Description of Specimen
59	Feature 8 (#813)	rim vessel and associated sherds (lip to upper shoulder)	Figure A3.3; Plate 4.16 -weight: 66.0 gr -sherd count: 1 fragmentary rim, 2 neck, 2 shoulder -surface treatment: exterior, interior and lip-SM -details: flat, beveled-out lip with vertical, thickened rim; incipient pointed castellation -exterior decoration (incomplete): zone 1-single band of RO CWS-? stamps [upper rim and castellation] zone 2-rows of HO CWS-? stamps [neck], over opposed LO and RO plats of HO CWS-? dragged stamps [upper shoulder-?] CP -top of zone 2 [neck] -interior decoration (complete): zone 1-single band of RO CWS-? stamps [upper rim and castellation] zone 2undecorated zone [neck-?] BO-zone 2 [neck] -lip decoration: VE CWS-? stamps -measurements: lip thickness-6.5 mm; upper rim thickness-6.2 mm; neck thickness-7.1 mm; shoulder thickness-8.0 mm; upper rim height-8.7 mm; rim-punctate distance-16.8 mm
60	Feature 8 (#825)	rim vessel and associated sherds (lip to upper shoulder)	Figure A3.3; Plate 4.16weight: 47.2 grsherd count: 1 fragmentary rim, 1 neck, 2 shoulderssurface treatment: exterior, interior and lip—SMdetails: flat, beveled-out lip with vertical, thickened rimexterior decoration (incomplete): zone 1-single band of RO CWC-s stamps [upper rim] zone 2rows of HO CWC-s stamps [neck-upper shoulder], over opposed (RO/LO) rows of CWC-s stamps over rows of HO CWC-s stamps [upper shoulder-?] CPzone 1/2 boundary [neck]interior decoration (complete): zone 1-single band of RO CWC-s stamps [upper rim] zone 2undecorated zone [neck-?] -lip decoration: RO CWS-s stampsmeasurements: lip thickness-6.7 mm; upper rim thickness-8.5 mm; neck thickness-6.4 mm; shoulder thickness-8.2 mm; upper rim height-10.5 mm; rim-punctate distance-17.6 mm
61	Feature 8 (#886)	rim vessel and associated sherd (lip to neck)	Figure A3.2 -weight: 10.3 gr -sherd count: 1 fragmentary rim, 1 neck -surface treatment: exterior, interior and lip-SM -details: flat lip with slightly out-flaring, thinned rim -exterior decoration (incomplete): zone 1-single band of RO CWS-s stamps [upper rim] zone 2-rows of HO CWS-s stamps [neck-?] CP -top of zone 2 [neck]interior decoration (complete): zone 1-single band of RO CWS-s stamps [upper rim] zone 2undecorated zone [neck-?] BO-top of zone 2 [neck]lip decoration: faint RO CWS-s stampsmeasurements: lip thickness-4.2 mm; upper rim thickness-6.3 mm; neck thickness-7.2 mm; shoulder thickness-7.1 mm; upper rim height-8.8; rim-punctate distance-10.1 mm

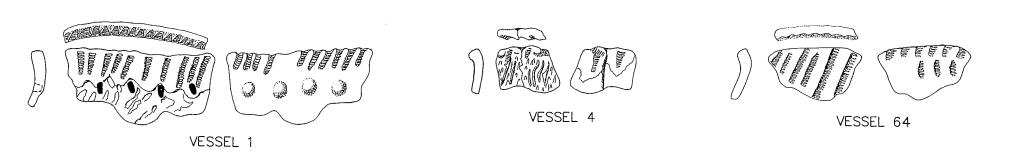
Vessel#	Provenience (Cat#)	Nature of Vessel	Description of Specimen
62	Feature 30 (#1020)	rim vessel with associated sherd (lip to lower shoulder)	Figure A3.5 -weight: 42.1 gr -sherd count: 1 fragmentary rim, 2 shoulder -surface treatment: exterior, interior and lip-SM -details: flat lip with slightly out-flaring, thinned rim -exterior decoration (incomplete): zone 1-single band of short RO CWS-s stamps [upper rim] zone 2rows of RO CWS-s stamps separated by RO plats of LO or RO CWS-s stamps [neck-?] CP -top of zone 2 [neck] -interior decoration (complete): zone 1single band of VE CWS-s stamps [upper rim] zone 2undecorated zone [neck-?] BO-top of zone 2 [neck]lip decoration: undecorated -measurements: lip thickness-6.8 mm; upper rim thickness-8.0 mm; neck thickness-11.4 mm; shoulder thickness-11.0 mm; upper rim height-14.2 mm; rim-punctate distance-15.1 mm
63	Feature 69 (#1164)	rim vessel with associated sherds (lip to lower shoulder)	Figure A3.3 -weight: 28.1 gr -sherd count: 1 fragmentary rim, 1 neck, 1 shoulder -surface treatment: exterior, interior and lip-SM -details: flat lip with vertical rim -exterior decoration (incomplete): zone 1-2 bands (?) of RO CWC-s stamps [upper rim] zone 2-rows of HO CWC-s stamps [neck-upper shoulder], over rows of opposed (RO/LO) CWC-s stamps [lower shoulder-?] CP-top of zone 2 [neck] -interior decoration (undetermined): zone 1-partial band of RO CWC-s stamps [upper rim] zone 2undecorated zone [neck-?] BO-zone 2 [neck]lip decoration: row of HO CWC-s stamps -measurements: lip thickness-8.7 mm; upper rim thickness-8.3 mm; neck thickness-9.6 mm; shoulder thickness-10.5 mm; upper rim height-n/a; rim-punctate distance-n/a
64	497-224 (#584)	rim vessel (lip to upper shoulder) -	Figure A3.1 -weight: 14.3 gr -sherd count: 1 fragmentary rim -surface treatment: exterior—SC; interior—SM; lip—SC -details: flat lip with slightly out-flaring rim -exterior decoration (incomplete): zone 1-single band of RO CWS-s stamps [upper rim-neck] zone 2undetermined zone [upper shoulder-?] -interior decoration (complete): zone 12 bands of RO CWS-s stamps (slightly different orientation) [upper rim-neck] zone 2undecorated zone [upper shoulder-?] -lip decoration: undecorated -measurements: lip thickness—8.2 mm; upper rim thickness—8.3 mm; neck thickness—7.6 mm; shoulder thickness—7.8 mm; upper rim height—7.6 mm; rim-punctate distance—n/a

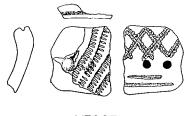
Vessel#	Provenience (Cat#)	Nature of Vessel	Description of Specimen
65	480-235 (#646)	rim vessel (lip to upper shoulder)	Figure A3.2 -weight: 6.3 gr -sherd count: 1 rim -surface treatment: exterior, interior and lip—SM -details: flat lip with vertical, thickened rim -exterior decoration (incomplete): zone 1-single band of RO CWS-s stamps [upper rim-neck] zone 2at least 2 rows of HO CWS-s stamps [upper shoulder-?] CP—zone 1/2 boundary [neck] interior decoration (complete): zone 1-single band of VE CWS-s stamps [upper rim-neck] zone 2undecorated zone [upper shoulder-?] BO—zone 1/2 boundary [neck] lip decoration: RO CWS-s stampsmeasurements: lip thickness-8.2 mm; upper rim thickness-7.2 mm; neck thickness-7.5 mm; shoulder thickness-6.7 mm; upper rim height-14.5 mm; rim-punctate distance-17.9 mm
66	Feature 8 (#887)	rim vessel with associated sherds (lip to lower shoulder)	Figure A3.3 -weight: 72.2 gr -sherd count: 1 fragmentary rim, 1 neck, 1 neck-shoulder, 2 shoulder -surface treatment: exterior-SM [upper rim-upper shoulder] over SC [lower shoulder], and SM (mostly sloughed) interior and lip surfaces -details: flat, expanding lip with vertical rim -exterior decoration: zone 1-single band of short VE CWS-z stamps [upper rim] zone 2-rows of HO CWS-z stamps [neck-upper shoulder] over LO plats of HO CWS-z stamps [upper shoulder-?] CP-zone 2 [upper shoulder] -interior decoration: zone 1-partial band of short VE CWS-z stamps [upper rim-?] -lip decoration: VE CWS-z stamps -measurements: lip thickness-5.7 mm; upper rim thickness-5.0 mm; neck thickness 4.7 mm; shoulder thickness-6.0 mm; body thickness-6.8 mm; upper rim height- 12.3 mm; lip-punctate distance-14.7 mm



VESSEL 30

VESSEL 40



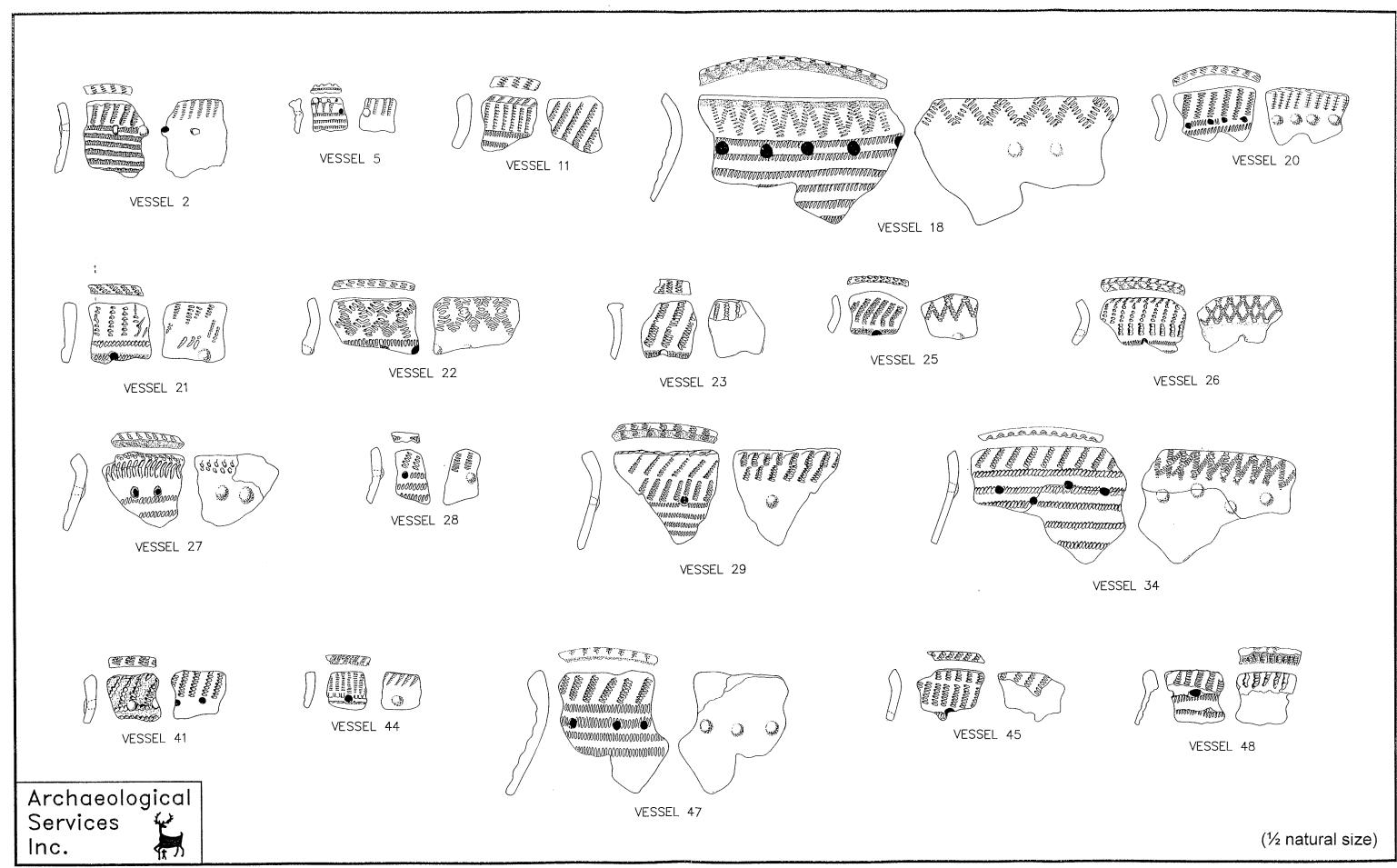


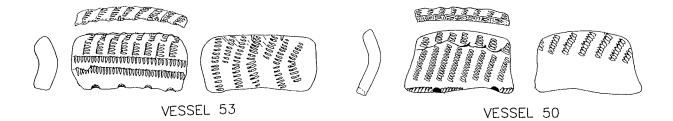
VESSEL 33

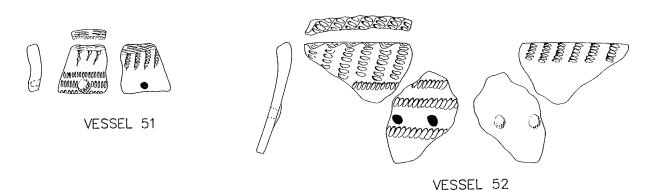
VESSEL 37

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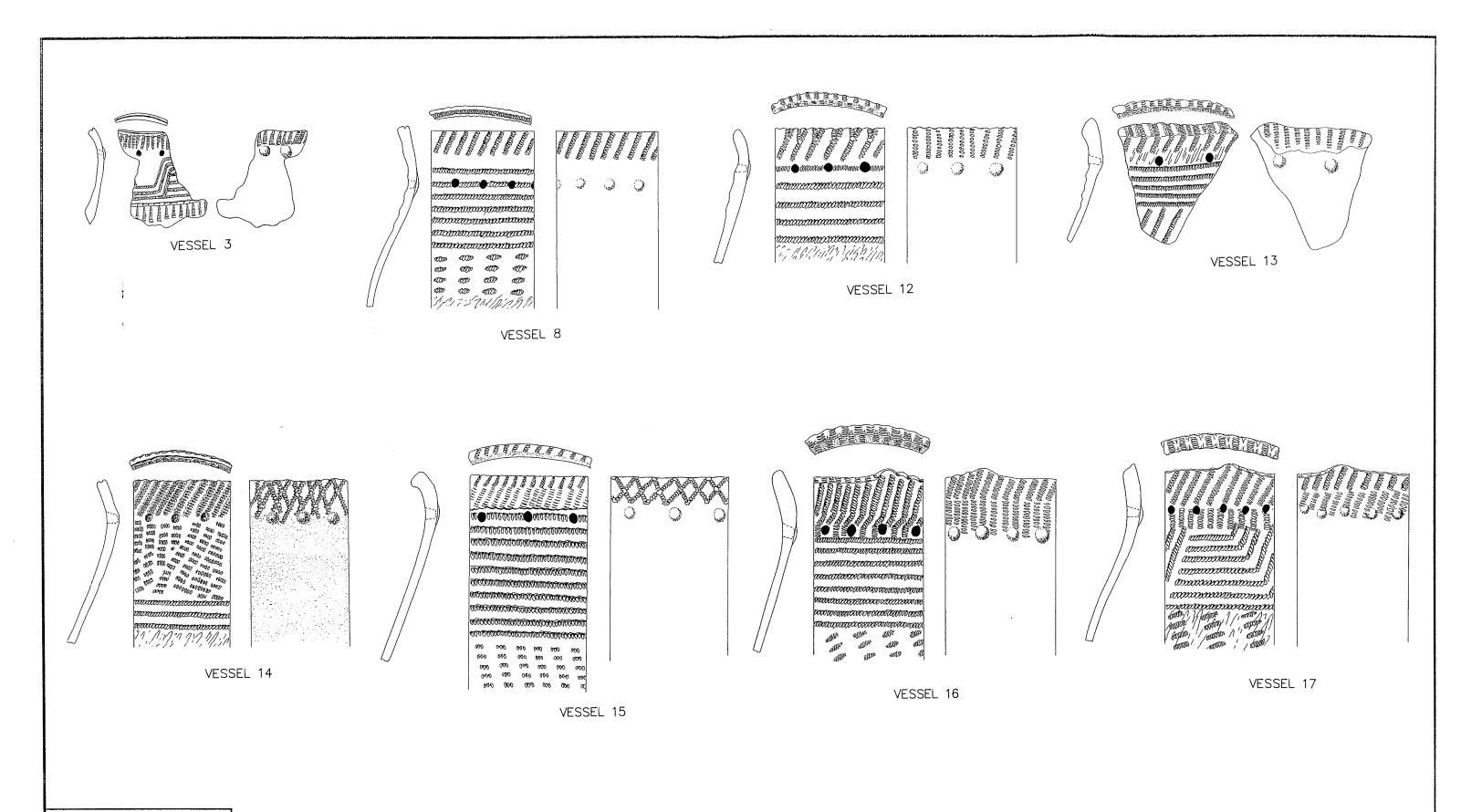






Archaeological Services Inc.

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Archaeological Services Inc.

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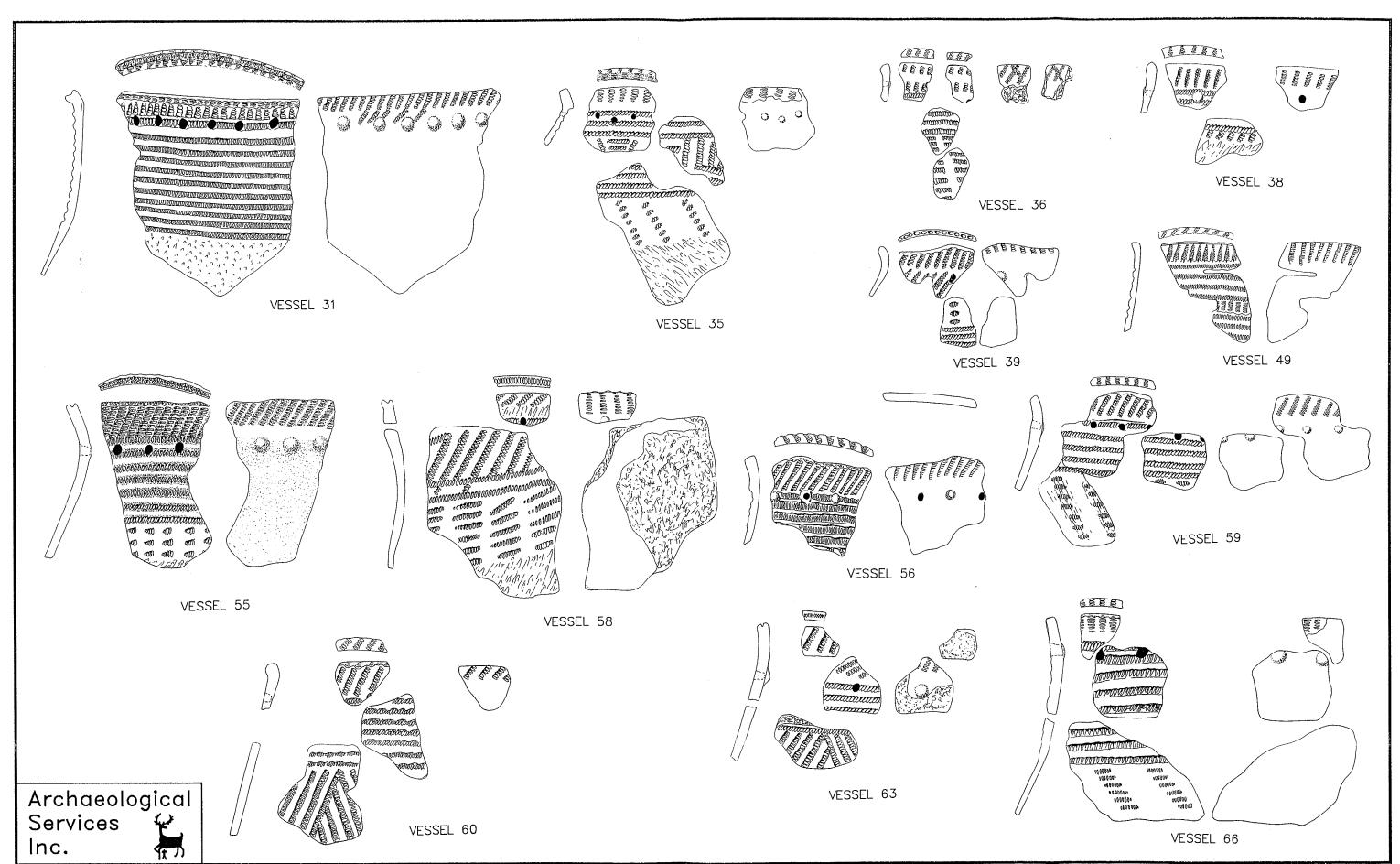
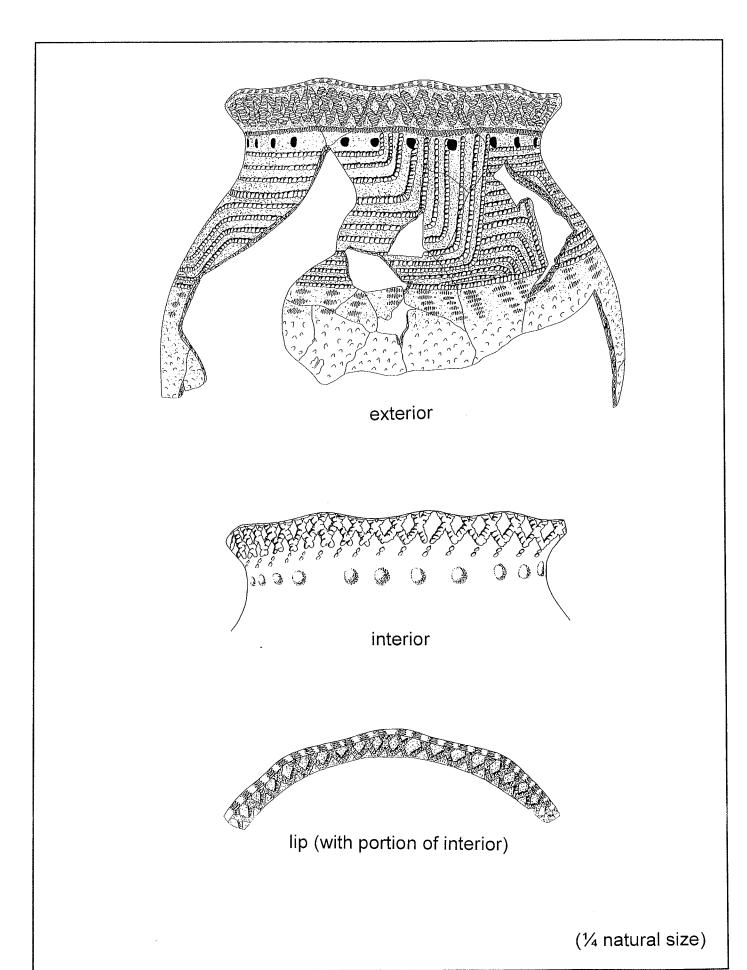


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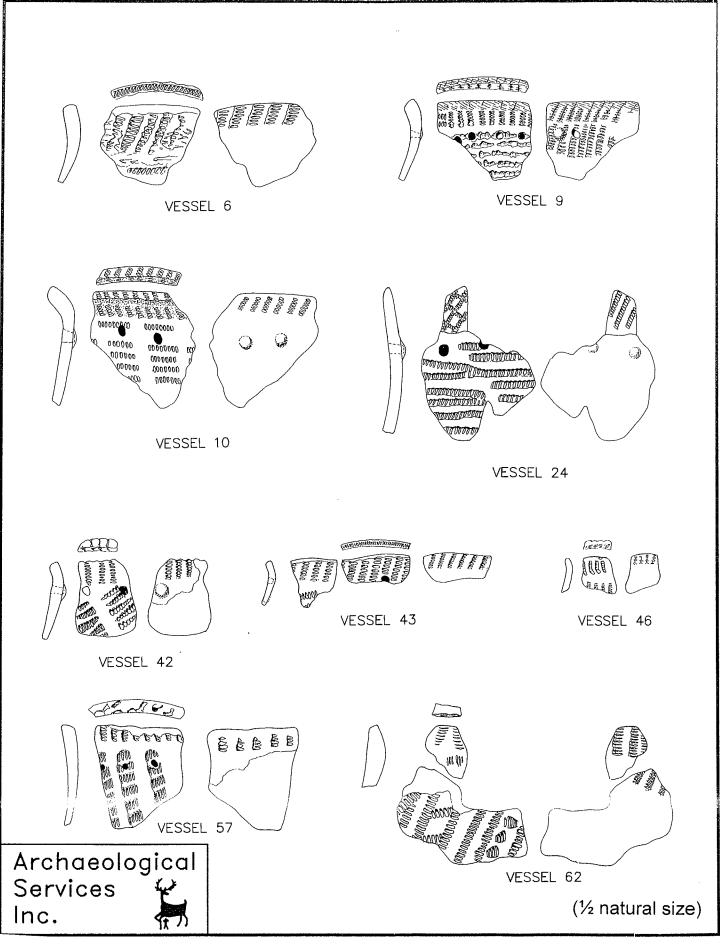


Figure 3.5 HOLMEDALE VESSELS WITH PLATTED BODY DECORATIONS

APPENDIX 4 FLAKED LITHICS: CATALOGUE

Provenience	Cat#	Quantity	Weight	Artifact Class	Material	Thermal Alteration	Comments
		1 m² T	EST UNIT	TEST UNITS AND BLOCK EXCAVATIONS ³	(CAVATIONS ³		
475-160*	12180	4	1.6	debitage	3 Onondaga 1 Collingwood		-secondary knapping flake
	12181	12	2.8	debitage	8 Onondaga 4 Upper Mercer		-secondary retouch flake
	12182	4	0.8	debitage	3 Onondaga 1 Upper Mercer		-shatter
475-165*	12190		0.5	debitage	Onondaga		-secondary knapping flake
	12191	2	0.2	debitage	Onondaga		secondary retouch flake
475-175*	12195	9	0.8	debitage	Onondaga		-secondary retouch flake
	12196	1	0.8	debitage	Onondaga		primary thinning flake
475-190*	12200	10	5.4	debitage	Onondaga	yes	secondary knapping flake 2 thermally altered
	12201	8	3.1	debitage	Onondaga	yes	shatter 1 thermally attered
	12202	16	2.1	debitage	Onondaga		secondary retouch flake
	12203	1	5.5	utilized flake	Onondaga		-secondary knapping flake
	12204	_	0.5	utilized flake	Onondaga		-secondary knapping flake
475-200*	12210	1	0.9	debitage	Onondaga		secondary knapping flake
	12211	+	0.2	debitage	Onondaga		shatter
	12212	1	0.1	debitage	Onondaga		-secondary retouch flake

³Squares designated with an asterisk (*) are 1 m² test units. The unmarked squares are part of the various block excavations.

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Provenience	Cat#	Quantity	Weight	Artifact Class	Material	Thermal Alteration	Comments
475-209*	10370	9	2.6	debitage	Onondaga	yes	-secondary knapping flake 1 thernally altered
	10371	3	1.0	debitage	Onondaga	yes	-secondary retouch flake -1 thermally altered
	10372	2	3.4	debitage	Onondaga	yes	shatter 2 thermally altered
	10373	1	1.7	utilized flake	Onondaga		-primary thinning flake
	10374	1	1.8	utilized flake	Onondaga		-shatter
	10375	-	1.0	utilized flake	Onondaga		-shatter
475-224*	12215	1	0.5	debitage	Onondaga		-secondary knapping flake
	12216	4	2.9	debitage	Onondaga	yes	-shatter -1 thermally altered
	12217	3	9.0	debitage	Onondaga		-secondary retouch flake
	12218	l l	0.5	utilized flake	Onondaga		-secondary knapping flake
478-214 (associated with Feature 8)	12240	11	7.2	debitage	Onondaga	yes	-secondary knapping flake 2 thermally altered
	12241	18	8.0	debitage	Onondaga	yes	-shatter -3 thermally altered
	12242	22	3.3	debitage	21 Onondaga 1 Kettle Point	yes	-secondary retouch flake 4 thermally altered
	12243	2	2.7	debitage	Onondaga	yes	-primary thinning flake -1 thermally altered
	12244	1	8.9	utilized flake	Onondaga		-primary thinning flake
	12245	1	2.0	utilized flake	Onondaga		-secondary knapping flake

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						Thermal	
Provenience	Cat #	Quantity	Weight	Artifact Class	Material	Alteration	Comments
478-215 (associated with Epature 8)	10380	င	5.4	debitage	Onondaga	yes	-primary thinning flake
	10381	37	18.2	debitage	Onondaga		-secondary knapping flake
	10382	39	5.9	debitage	Onondaga		secondary retouch flake
	10383	27	15.7	debitage	Onondaga	yes	shatter 4 thermally altered
1	10384	1	2.2	utilized flake	Onondaga		-secondary knapping flake
	10385	ļ.,	0.8	utilized flake	Onondaga	yes	-secondary knapping flake
	10386	ļ	0.2	utilized flake	Onondaga		-secondary retouch flake
478-216 (associated with Feature 8)	12230	33	18.6	debitage	Onondaga	yes	-secondary knapping flake -5 thermally altered
	12231	25	12.6	debitage	Onondaga	yes	shatter 5 thermally altered
	12232	24	3.3	debitage	Onondaga	yes	secondary retouch flake 5 thermally altered
	12233	ļ	6.0	utilized flake	Onondaga		-secondary knapping flake
•	12234	ļ.	6:0	utilized flake	Onondaga	yes	-secondary knapping flake
	12235	ļ	9.0	biface	Onondaga		tip
479-165*	12220	19	8.0	debitage	Onondaga		secondary knapping flake
	12221	14	3.9	debitage	Onondaga		shatter
	12222	15	1.7	debitage	Onondaga		-secondary retouch flake
	12223	2	1.5	debitage	Onondaga		-primary thinning flake
	12224	1	1.1	utilized flake	Onondaga	yes	-secondary knapping flake

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Provenience	Cat#	Quantity	Weight	Artifact Class	Material	Thermal Alteration	Comments
479-199*	10400	11	8.3	debitage	Onondaga	yes	secondary knapping flake 1 thermally altered
	10401	2	3.3	debitage	Onondaga		-primary thinning flake
	10402	9	1.4	debitage	Onondaga		secondary retouch flake
	10403	9	5.7	debitage	Onondaga	yes	-shatter -1 thermally attered
	10404	1	2.2	debitage	Onondaga		core trimming
479-199*	10405	μ,	0.5	drill	Onondaga		-dip
(continued)	10406	ļ	4.9	utilized flake	Onondaga		-primary thinning flake
479-214 (associated with Feature 8)	12260	ε	3.6	debitage	Onondaga	yes	-primary thinning flake -1 thermally altered
	12261	44	21.1	debitage	Onondaga	yes	secondary knapping flake 3 thermally altered
	12262	34	14.0	debitage	Onondaga	yes	shatter 6 thermally attered
	12263	69	8.6	debitage	58 Onondaga 1 Kettle Point	yes	secondary retouch flake 9 thermally altered
	12264	ļ	0.8	spokeshave / utilized flake	Onondaga		-secondary knapping flake
479-215	12270	ļ	1.5	debitage	Onondaga		-primary thinning flake
(associated with reacide o.)	12271	25	33.2	debitage	Onondaga		secondary knapping flake
	12272	58	25.3	debitage	Onondaga	yes	shatter 16 thermally altered
	12273	38	4.9	debitage	37 Onondaga 1 Kettle Point	yes	-secondary retouch flake 2 thermally attered
	12274	1	3.4	graver / utilized flake	Onondaga		-retouched secondary knapping flake
	12275	1	2.5	utilized flake	Onondaga		-secondary knapping flake

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Provenience	Cat#	Quantity	Weight	Artifact Class	Material	Thermal Alteration	Comments
479-215 (associated with Eesture 8)	12276	1	1.6	utilized flake	Onondaga	yes	-shatter
(continued)	12277	1	0.8	utilized flake	Onondaga		-secondary knapping flake
	12278	-	0.2	utilized flake	Onondaga		-shatter
	12279	1	1.7	wedge	Onondaga	yes	-secondary knapping flake -also retouched along lateral margin
479-216 (associated with Feature 8)	12290	2	3.9	debitage	Onondaga		-primary thinning flake
	12291	. 38	27.7	debitage	37 Onondaga 1 Ancaster	yes	-secondary knapping flake 4 thermally altered
	12292	39	12.8	debitage	Onondaga	yes	-shatter -9 thermally aftered
	12293	45	5.9	debitage	Onondaga	yes	-secondary retouch flake -8 thermally altered
	12294	1	0.5	utilized flake	Onondaga	yes	-secondary knapping flake
	12295	-	2.1	wedge	Onondaga		-primary thinning flake
480-155*	12310	1	12.2	debitage	Ancaster	yes	-primary thinning flake
	12311	2	1.2	debitage	Onondaga		-secondary knapping flake
	12312	9	5.0	debitage	Onondaga		shatter
	12313	4	0.5	debitage	Onondaga		-secondary retouch flake
480-159*	10420	12	6.0	debitage	Onondaga		secondary knapping flake
	10421	7	1.3	debitage	Onondaga		-secondary retouch flake
	10422	9	2.4	debitage	Onondaga		shatter
	10423	-	6:0	spokeshave	Onondaga		-shatter

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9.0 0.2 3.4 9.5 8.9 48 6.0 24 3 38 -10436 10435 12330 12331 12332 12333 12334

-random end and side -retouched secondary knapping flake -secondary knapping flake -secondary knapping flake --2 thermally altered -secondary knapping flake -secondary knapping flake -secondary knapping flake secondary knapping flakethermally altered -secondary retouch flake -secondary retouch flake -secondary retouch flake -secondary retouch flake -1 thermally altered -primary thinning flake -shatter -2 thermally aftered -shatter -4 thermally altered Comments -shatter -base Thermal Alteration yes yes yes yes yes Onondaga Onondaga Material Onondaga **Artifact Class** utilized flake utilized flake utilized flake utilized flake debitage scraper biface Weight 2.0 11.3 0.8 0.3 4.8 8.7 <u>ب</u> 2.1 6.0 Quantity 4 17 4 N 8 Cat# 12320 12321 12322 10430 10433 10434 10387 10431 10432 Provenience 480-175* 480-185 480-189*

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	770					Thermal	
riovemence	Cat #	Quantity	Weight	Artifact Class	Material	Alteration	Comments
480-209*	10450	38	25.8	debitage	37 Onondaga 1 Ancaster	yes	-secondary knapping flake -4 thermally altered
	10451	8	5.7	debitage	Onondaga	yes	secondary retouch flake 2 thermaily altered
	10452	21	13.6	debitage	Onondaga	yes	-shatter -7 thermally aftered
	10453	1	8.2	utilized flake	Ancaster		-primary thinning flake
	10454	-	4.4	scraper / utilized flake	Onondaga		-secondary knapping flake
	10455	-	1.5	utilized flake	Onondaga		-secondary knapping flake
	10456	-	1.8	utilized flake	Onondaga		-primary thinning flake
	10457	-	1.4	utilized flake	Onondaga		-secondary knapping flake
	10458	-	2.0	utilized flake	Onondaga	yes	-secondary knapping flake
	10459	-	9.0	spokeshave / utilized flake	Onondaga		-secondary knapping flake
	10460	-	114.0	debitage	Onondaga		-core fragment
480-214	12345	-	6.7	debitage	Onondaga		-primary thinning flake
(0.000000000000000000000000000000000000	12346	23	14,0	debitage	Onondaga	yes	-secondary knapping flake -4 thermally altered
	12347	24	8.8	debitage	Onondaga	yes	-shatter -5 thermally altered
	12348	17	2.8	debitage	Onondaga	yes	-secondary retouch flake -2 thermally altered
	12349	1	2.2	graver	Onondaga		-retouched primary thinning flake
	12350	-	0.4	utilized flake	Onondaga		-secondary knapping flake
	12351	+	9.0	utilized flake	Onondaga		-secondary knapping flake
	12352	_	15.5	biface	Onondaga		-base and mid-section

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Provenience	Cat#	Quantity	Weight	Artifact Class	Material	Thermal Alteration	Comments
480-215* (unit discovered Feature 8)	12360	S	7.6	debitage	Onondaga	yes	primary thinning flake 2 thermally altered
	12361	32	16.1	debitage	Onondaga	yes	-secondary knapping flake -6 thermally altered
	12362	39	17.7	debitage	Onondaga	yes	-shatter -3 thermally altered
	12363	41	5.9	debitage	Onondaga	yes	secondary retouch flake 5 thermally altered
	12364		7.5	scraper / utilized flake	Onondaga		-random side -retouched primary thinning flake
	12365	1	2.4	scraper / utilized flake	Onondaga		-random side -retouched primary thinning flake
	12366	1	2.5	utilized flake	Onondaga		-secondary knapping flake
	12367	1	9.0	utilized flake	Onondaga		-secondary knapping flake
	12368	1	2.5	scraper / utilized flake	Onondaga		-hafted end and side -retouched and notched flake
	12369	1	0.5	utilized flake	Onondaga		-secondary knapping flake
	12370	-	0.7	utilized flake	Onondaga		-secondary knapping flake
	12371	+	0.2	utilized flake	Onondaga		shatter
	12372	1	0.5	scraper	Onondaga		-random side -retouched secondary knapping flake
	12373	1	3.5	biface	Onondaga		-complete; triangular blank
	12374	-	0.5	biface	Onondaga		-tip
	12375	1	0.3	biface	Onondaga		-base fragment
	12376	1	3.7	arill	Onondaga		-base

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Provenience	Cat#	Quantity	Weight	Artifact Class	Material	Thermal Alteration	Comments
480-216 (associated with Feature 8)	12390	37	26.0	debitage	Onondaga	yes	-secondary knapping flake -7 thermally altered
	12391	%	19.2	debitage	Onondaga	yes	shatter 8 thermally altered
	12392	35	5.9	debitage	Onondaga	yes	-secondary retouch flake -4 thermally altered
	12393	1	1.6	utilized flake	Onondaga		-shatter
	12394	-	1.5	utilized flake	Onondaga		-secondary knapping flake
	12395	-	9:0	spokeshave	Onondaga		-secondary knapping flake
	12396	_	1.4	biface	Onondaga		-base; also utilized along distal margin
	12397	-	0.4	utilized flake	Onondaga	yes	-shatter
	12398	-	20.4	debitage	Onondaga		core fragment
480-220*	12410	10	4.9	debitage	9 Onondaga 1 Kettle Point	yes	-secondary knapping flake 2 thermally altered
	12411	14	10.9	debitage	Onondaga	yes	shatter 3 thermally altered
	12412	-	2.0	debitage	Onondaga		primary thinning flake
	12413	5	0.8'	debitage	Onondaga	yes	secondary retouch flake 3 thermally altered
	12414	•	1.8	eßpew	Onondaga		-primary thinning flake
	12415	1	6.0	projectile point	Onondaga		-base
	12416	-	0.2	utilized flake	Onondaga	yes	-shatter

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Provenjence	Cat#	Quantity	Weight	Artifact Class	Material	Thermal Alteration	Comments
480-225	12430	-	2.0	drill	Onondaga		-base and mid-section
	12435	4	7.9	debitage	3 Onondaga 1 Ancaster		primary thinning flake
	12436	12	5.6	debitage	Onondaga	yes	-secondary knapping flake 2 thermally altered
	12437	7	2.3	debitage	Onondaga	yes	-secondary retouch flake 1 thermally altered
	12438	12	1.5	debitage	Onondaga		-secondary knapping flake
	12439	-	5.2	utilized flake	Ancaster		-primary reduction flake
	12440	-	9.0	utilized flake	Onondaga		-secondary knapping flake
	12441	1	0.4	utilized flake	Onondaga	yes	-shatter
	12442	1	0.4	utilized flake	Onondaga		-secondary knapping flake
480-230*	10480	17	9.6	debitage	Onondaga		-secondary knapping flake
	10481	13	2.3	debitage	Onondaga	yes	-secondary retouch flake -2 thermally altered
	10482	દ	2.2	debitage	Onondaga	yes	shatter 2 thermally altered
	10483	1	1.3	utilized flake	Onondaga		-secondary knapping flake
	10484	1	0.3	utilized flake	Onondaga		-secondary knapping flake
	10485	1	9.0	utilized flake	Onondaga		-secondary knapping flake
	10486	Ψ-	0.4	scraper	Onondaga		নandom side নetouched shatter
	10487	1	0,4	projectile point	Onondaga		base
	10488	ţ-	6.1	scraper	Onondaga		-hafted end and side -retouched shatter

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Provenience	Cat #	Quantity	Weight	Artifact Class	Material	Thermal Alteration	Comments
480-244*	12450	2	0.5	debitage	Onondaga		-shatter
	12451	3	9:0	debitage	Onondaga		-secondary retouch flake
485-221	10500	9	6.8	debitage	Onondaga	yes	-secondary knapping flake -1 thermally altered
	10501	1	1.6	debitage	Onondaga		-primary thinning flake
	10502	8	1.3	debitage	Onondaga		-secondary retouch flake
•	10503	&	2.2	debitage	Onondaga	yes	shatter 2 thermally altered
	10504	-	9.0	utilized flake	Onondaga	yes	-secondary knapping flake
•	10505	,	0.7	utilized flake	Onondaga		-shatter
	10506	1	6.4	utilized flake	Onondaga		-primary thinning flake
	10507	1	1.0	biface	Onondaga	yes	base fragment
485-222	12470	17	10.5	debitage	Onondaga	yes	-secondary knapping flake 4 thermally altered
	12471	17	5.6	debitage	Onondaga	yes	-shatter -4 thermally altered
	12472	10	1.3	debítage	Onondaga		-secondary retouch flake
	12473	-	2.7	debitage	Onondaga		primary thinning flake
	12474	-	0.8	spokeshave / utilized flake	Onondaga		-retouched secondary knapping flake
	12475	F	0.3	utilized flake	Onondaga	yes	-secondary knapping flake

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Provenience	Cat#	Quantity	Weight	Artifact Class	Material	Thermal Alteration	Comments	
485-223	10520	თ	4.9	debitage	Onondaga	yes	secondary knapping flake 3 thermally attered	
	10521	8	2.1	debitage	Onondaga	yes	secondary retouch flake 3 thermally altered	
	10522	11	6.4	debitage	Onondaga		-shatter	
	10524	* -	2.0	scraper	Onondaga		-random side -retouched primary thinning flake	
	10525	٠.	3.0	projectile point	Onondaga		complete; triangular	
	10526	-	1.8	drill	Onondaga		-complete	
	15000	39	17.1	debitage	Onondaga	yes	combined sample 6 thermally altered	
	15001	-	16.7	debitage	Onondaga		core fragment	
	15002	1	1.3	drill	Onondaga		dj-	
	15003	-	9.0	biface	Onondaga		-tip	
485-224	10540	2	6.7	debitage	Onondaga	yes	primary thinning flake 1 thermally altered	
	10541	19	13.8	debitage	Onondaga	yes	secondary knapping flake 3 thermally attered	
	10542	12	9.9	debitage	Onondaga	yes	secondary retouch flake 4 thermally altered	
	10543	12	2.2	debitage	Onondaga	yes	shatter 3 thermally altered	
	10544	*-	1.2	utilized flake	Onondaga		-secondary knapping flake	
	10545	-	0.7	utilized flake	Onondaga		-secondary knapping flake	
	10546	-	0.5	utilized flake	Onondaga		-secondary knapping flake	
	10547	1	6.0	drill	Onondaga		-bit mid-section	

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Provenience 485-224 (continued)							
485-224 (continued)	Cat#	Quantity	Weight	Artifact Class	Material	Thermal Alteration	Comments
(10548	1	4.3	biface	Onondaga		dib
	10549	-	3.7	projectile point	Onondaga		-complete; triangular
485-235	15005	30	13.7	debitage	29 Onondaga 1 Upper Mercer	yes	-combined sample -2 thermally altered
485-249*	15010	24	10.8	debitage	23 Onondaga 1 Ancaster	yes	combined sample 1 thermally altered
486-221	15015	25	16.0	debitage	Onondaga	yes	combined sample 4 thermally altered
	15016	-	2.2	projectile point	Onondaga	yes	-complete; triangular
486-222	12020	2	5.6	debitage	Onondaga		-primary thinning flake
	12021	1 5	11.7	debitage	Onondaga	yes	-secondary knapping flake -2 thermally altered
	12022	8	7.7	debitage	Onondaga	yes	-shatter 1 thermally altered
	12023	6	1.9	debitage	8 Onondaga 1 Kettle Point	yes	-secondary retouch flake -3 thermally altered
	12024	۳	9.0	scraper	Onondaga		-random side -retouched shatter
	12025	-	0.2	utilized flake	Onondaga		shatter
	12026	-	10.5	debitage	Onondaga	yes	-core fragment
	12027	τ-	,	scraper / utilized flake	Onondaga		-random side and end -retouched secondary knapping flake
	12028	7	0.7	scraper	Onondaga		-random end and side -retouched shatter
	12029	-	0.4	biface	Onondaga		-tip
	15020	To To	1.6	debitage	Onondaga	yes	-combined sample -1 thermally attered

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Provenience	Cat#	Quantity	Weight	Artifact Class	Material	Thermal Alteration	Comments
486-223	15025	48	27.4	debitage	Onondaga	yes	-combined sample -6 thermally altered
	15030	24	13.8	debitage	Onondaga	yes	combined sample 2 thermally altered
486-224	10560	м	6.9	debitage	Onondaga	yes	-primary thinning flake 1 thermally altered
	10561	22	14.1	debitage	Onondaga	yes	secondary knapping flake 4 thermally altered
	10562	. 13	2.4	debitage	Onondaga	yes	secondary retouch flake 5 thermally altered
	10563	თ	5.0	debitage	Onondaga	yes	-shatter -2 thermally attered
	10564	-	4.9	wedge	Onondaga		-core
	10565	-	1.0	spokeshave	Onondaga		-secondary knapping flake
	10566	-	0.7	scraper	Onondaga		-random side -retouched shatter
487-221	15035	90	25.1	debitage	Onondaga	yes	combined sample 3 thermally altered
	15036		4.5	biface	Onondaga		-mid-section and tip
487-222	15040	48	24.9	debitage	Onondaga	yes	-combined sample 5 thermally altered
487-223	10904	-	3.6	wedge	Onondaga		-core fragment
	15045	30	11.6	debitage	29 Onondaga 1 Upper Mercer	yes	-combined sample -3 thermally altered
487-224	15050	33	19.2	debitage	Onondaga	yes	-combined sample -3 thermally altered
	15051	-	3.4	drill	Onondaga		-base and mid-section

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Provenience	Cat#	Quantity	Weight	Artifact Class	Material	Thermal Alteration	Comments
488-220	15055	51	20.5	debitage	50 Onondaga 1 Ancaster	yes	-combined sample -10 thermally altered
	15056	1	15.1	debitage	Onondaga		-core fragment
	15057	1	0.4	drill	Onondaga		-tip
	15315	-	0.2	debitage	Onondaga		-secondary retouch flake
488-221	15060	62	40.0	debitage	60 Onondaga 2 Ancaster	yes	-combined sample -8 thermally altered
488-222	15065	, 44	18.4	debitage	Onondaga	yes	-combined sample -3 thermally attered
	15066	V -	6.0	biface	Onondaga		-mid-section
488-223	15070	42	16.6	debitage	Onondaga	yes	-combined sample -5 thermally altered
	15071	_	2.4	biface	Onondaga		-base fragment
488-224	15075	25	15.9	debitage	24 Onondaga 1 Ancaster		-combined sample
	15076	1	3.1	biface	Onondaga		-mid-section
	15077	_	0.7	biface	Onondaga		-tip
	15078	-	1.2	scraper	Onondaga		 random end and side retouched secondary knapping flake
489-174*	10580	3	1.0	debitage	Onondaga		-secondary retouch flake
	10581	1	0.8	utilized flake	Onondaga		-shatter
489-199*	10590	9	3.1	debitage	5 Onondaga 1 Upper Mercer	yes	secondary knapping flake 3 thermally altered
	10591	8	1.7	debitage	2 Onondaga 1 Upper Mercer		shatter
	10592	2	0.9	debitage	1 Onondaga 1 Upper Mercer	yes	secondary retouch flake 1 thermally altered

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Provenience	Cat #	Quantity	Weight	Artifact Class	Material	Thermal	Comments
489-199 (continued)	10593	-	2.0	debitage	Onondaga		primary thinning flake
489-210 (associated with Feature 1)	15080	31	17.6	debitage	Onondaga	yes	-combined sample -7 thermally altered
	15089	1	24.3	debitage	Onondaga		core fragment
489-211 (associated with Feature 1)	15085	58	34.2	debitage	56 Onondaga 2 unknown	yes	-combined sample -4 thermally altered
	15086	1	0.8	biface	Onondaga		base fragment
	15087	1	2.1	scraper / utilized flake	Onondaga		-random end and side -retouched secondary knapping flake
489-220	15090	65	29.4	debitage	64 Onondaga 1 Selkirk	yes	-combined sample -4 thermally altered
	15091	1	0.8	biface	Onondaga		-base fragment
	15092	-	3.9	biface	Onondaga		-mid-section
	15093	1	0.9	projectile point	Onondaga		-complete; triangular
	15094	-	7.1	debitage	Onondaga		core fragment
489-221	15095	65	38.2	debitage	64 Onondaga 1 Ancaster	yes	-combined sample -6 thermally altered
	15096	1	0.2	biface	Onondaga		dt)-
	15097	-	0.4	drill	Onondaga		-tip
	15098	-	3.6	scraper	Onondaga		-random end -retouched primary thinning flake
•	15099	-	7.5	wedge	Onondaga		-primary thinning
	15320	5	9.0	debitage	Onondaga	yes	-secondary retouch flake 1 thermally attered
	15321	2	0.3	debitage	Onondaga	yes	shatter 1 thermally attered

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Provenience	Cat#	Quantity	Weight	Artifact Class	Material	Thermal Alteration	Comments
489-222	15100	36	17.6	debitage	Onondaga	yes	combined sample 3 thermally altered
	15101	-	0.7	projectile point	Onondaga		-base and mid-section; triangular
489-223	15105	4	16.2	debitage	Onondaga	yes	-combined sample -3 thermally altered
	15106	-	2.5	projectile point	Onondaga		-base and mid-section; triangular
489-224	15110	26	15.1	debitage	24 Onondaga 2 Ancaster	уөз	combined sample 3 thermally altered
490-155*	15115	4	2.8	debitage	2 Onondaga 2 Ancaster		-combined sample
490-159*	10360	မ	3.7	debitage	5 Onondaga 1 Bois Blanc		-secondary knapping flake
	10361	9	1.3	debitage	Onondaga		-secondary retouch flake
	10362	7	2.0	debitage	6 Onondaga 1 Haldimand	yes	-shatter 2 thermally altered
490-190*	10355	-	1.3	debitage	Onondaga	yes	-secondary knapping flake
	10356	-	1.3	debitage	Onondaga		-shatter
	10357	1	0.7	spokeshave / utilized flake	Onondaga	yes	-shatter
490-210° (unit discovered Feat. 1)	10600	22	12.4	debitage	Onondaga	yes	secondary knapping flake 6 thermally altered
	10601	5	5.8	debitage	12 Onondaga 1 Ancaster	yes	shatter 6 thermally altered
	10602	14	2.7	debitage	Onondaga	yes	-secondary retouch flake 2 thermally altered
	10603	-	16.0	utilized flake	Onondaga		-secondary knapping flake
	10604	-	4.	scraper	Onondaga		 -random end -retouched secondary knapping flake

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Provenience	Cat#	Quantity	Weight	Artifact Class	Material A	Thermal Alteration	Comments
490-210* (unit discovered Feat 1)	10605	1	2.4	debitage		yes	primary thinning flake
(continued)	10606	-	6.3	projectile point	Onondaga		-complete; triangular
	10607	1	2.3	projectile point	Onondaga		-complete; triangular
490-211 (associated with Feature 1)	15120	30	25.9	debitage	28 Onondaga 1 Ancaster 1 unknown	yes	-combined sample -5 thermally altered
	15121		1.4	scraper	Onondaga		-hafted crescent -retouched secondary knapping flake
490-215*	10620	20	12.4	debitage	19 Onondaga 1 Upper Mercer	yes	-secondary knapping flake -9 thermally altered
	10621	88	4.5	debitage	Onondaga	yes	shatter 5 thermally altered
-	10622	14	2.8	debitage	13 Onondaga 1 Upper Mercer		secondary retouch flake
	10623	-	1.7	utilized flake	Ancaster		-secondary knapping flake
	10624	-	0.2	utilized flake	Onondaga		-shatter
490-220*	10640	37	21.0	debitage	36 Onondaga 1 Ancaster	yes	-secondary knapping flake 5 thermally altered
	10641	33	13.0	debitage	31 Onondaga 2 Ancaster	yes	-shatter 9 thermally altered
	10642	13	2.2	debitage	Onondaga	yes	secondary retouch flake 1 thermally altered
	10643	-	3.6	utilized flake	Onondaga		-primary thinning flake
	10644	-	3.2	utilized flake	Onondaga		-secondary knapping flake
	10645	-	0.7	utilized flake	Onondaga		-secondary knapping flake
	10646	-	9.0	utilized flake	Onondaga		-secondary knapping flake
	10647	-	0.4	utilized flake	Upper Mercer		-secondary knapping flake

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Provenience	Cat#	Quantity	Weight	Artifact Class	Material	Thermal Alteration	Comments
490-220* (continued)	10648	1	0.2	spokeshave	Onondaga		-shatter
	10649	-	1.6	drill	Onondaga		-base and mid-section
	10650	_	4.1	biface	Onondaga		-base and mid-section; hafted knife
490-221	10670	19	13.6	debitage	Onondaga	yes	-secondary knapping flake -1 thermally altered
	10671	24	2.8	debitage	Onondaga	yes	secondary retouch flake 7 thermally altered
	10672	. 13	5.2	debitage	Onondaga	yes	-shatter 5 thermally altered
	10673	-	4.1	projectile point	Onondaga	yes	-complete; triangular
	10674	-	2.3	biface	Onondaga		-mid-section and tip
	10675	-	5.6	scraper	Onondaga		-hafted end and side -retouched shatter
	10676	_	1.6	biface	Onondaga		-mid-section fragment
1	10677	-	2.3	utilized flake	Onondaga		-primary thinning flake
	10678	-	1.2	utilized flake	Onondaga		-secondary knapping flake
	10679	-	1.1	utilized flake	Onondaga		-shatter (blade)
490-222	15125	78	30.2	debitage	77 Onondaga 1 Ancaster	yes	-combined sample 18 thermally altered
	15126	-	3.9	drill	Onondaga		-base fragment
	15127	-	1.2	projectile point	Onondaga		-base
-1	15325	-	0.2	debitage	Onondaga	yes	secondary retouch flake
	15326	-	0.3	debitage	Onondaga	yes	shatter

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Provenience	Cat#	Quantity	Weight	Artifact Class	Material	Thermal Alteration	Comments
490-223	15130	47	17.9	debitage	42 Onondaga 3 Ancaster 2 unknown	yes	combined sample 5 thermally altered
	15131	-	0.7	drill	Onondaga		d.b.
	15330	s,	8.0	debitage	Onondaga		-secondary retouch flake
490-224	15135	55	25.2	debitage	53 Onondaga 2 Ancaster	yes	-combined sample -4 thermally altered
490-229*	10690	o	5.3	debitage	Onondaga	yes	-secondary knapping flake -1 thermally altered
	10691	10	2.0	debitage	Onondaga	yes	-secondary retouch flake -1 thermally altered
	10692	S	14.5	debitage	Onondaga	yes	-shatter 1 thermally altered
	10693	1	1.1	utilized flake	Onondaga		-secondary knapping flake
	10694	1	0.7	utilized flake	Onondaga		-secondary knapping flake
490-249*	15140	65	26.2	debitage	64 Onondaga 1 unknown	yes	-combined sample 4 thermally altered
	15141	1	2.3	scraper	Onondaga		-random end -retouched shatter
	15145	59	28.7	debitage	57 Onondaga 2 Ancaster	yes	combined sample 2 thermally altered
490-252*	15150	100	44.1	debitage	92 Onondaga 8 Ancaster	yes	-combined sample -7 thermally altered
491-210 (associated with Feature 1,	10710	14	7.3	debitage	Onondaga	yes	–secondary knapping flake —4 thermally altered
	10711	17	8.4	debitage	Onondaga	yes	shatter —4 thermally altered
	10712	თ	1.7	debitage	Onondaga	yes	-secondary retouch flake 1 thermally altered

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Provenience	Cat#	Quantity	Weight	Artifact Class	Material	Thermal Alteration	Comments
491-210 (associated with Feature 1)	10713	1	1.7	debitage	Onondaga		-primary thinning flake
(continued)	10714	-	1.6	utilized flake	Onondaga		shatter
	10715	-	0.7	utilized flake	Onondaga	yes	-secondary knapping flake
	10716	_	0.5	utilized flake	Onondaga	səƙ	-secondary knapping flake
	10717	-	0.4	biface	Onondaga		-tip
	10730	-	4.8	debitage	Onondaga		-secondary knapping flake
	10731		1.6	debitage	Onondaga		-shatter
	10732	-	3.3	spokeshave / utilized flake	Onondaga		-retouched primary thiming flake
	10733	-	2.8	utilized flake	Onondaga		-shatter
491-211 (associated with Feature 1)	15155	38	19.9	debitage	37 Onondaga 1 Ancaster	yes	combined sample 9 thermally altered
	15156	-	0.3	biface	Onondaga		-tip
	15157	-	3.7	scraper	Onondaga		-random side -retouched primary thinning flake
491-221	10750	98	35.1	debitage	Onondaga	yes	-secondary knapping flake -7 thermally altered
	10751	15	13.7	debitage	Onondaga	yes	-shatter -2 thermally altered
	10752	33	5.0	debitage	Onondaga	yes	-secondary retouch flake 1 thermally altered
	10753	-	11.6	scraper	Onondaga		-random end
	10754	-	6.0	scraper	Onondaga		-random side -retouched secondary knapping flake
	10755	-	1.3	scraper	Onondaga		-random end-side -retouched shatter

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1 2.6 1 0.9 1 2.7 23 19.2 10 2.2 1 2.1 1 2.1 1 3.2 19 15.3 19 15.3 19 15.3	0.9		COLLINGIA
10758 1 0.9 10770 23 19.2 10771 10 2.2 10772 17 6.5 10773 1 2.1 15160 10 11.1 15162 1 1.0 10790 19 1.6 10792 1 7.9 10793 16 7.9	0.0	Onondaga	-mid-section and tip -also used as side scraper
10776 23 19.2 10771 10 2.2 10772 17 5.5 10773 1 2.1 15160 10 11.1 15161 1 3.2 15162 1 1.0 10790 19 15.3 10791 1 7.9 10792 16 3.1 10793 16 3.1	7	Onondaga	-random end -retouched secondary knapping flake
10770 23 192 10771 10 2.2 10772 17 5.5 15760 10 11.1 15161 1 2.1 15162 1 3.2 10790 19 15.3 10791 1 1.6 10792 17 7.9 10793 16 3.1	2.1	Onondaga	-base and mid-section; triangular
10772 17 5.5 10773 1 2.1 15160 10 11.1 15161 1 3.2 15162 1 1.0 10790 19 15.3 10791 1 1.6 10792 17 7.9	19.2	Onondaga	-secondary knapping flake -3 thermally attered
10772 17 5.5 10773 1 2.1 15160 10 11.1 15161 1 3.2 15162 1 1.0 10790 19 15.3 10791 1 7.9 10792 16 3.1	2.2	Onondaga	-secondary retouch flake -3 thermally altered
15160 10 11.1 15161 1 3.2 15162 1 1 1.0 10790 19 15.3 10791 1 1.6 10792 17 7.9	5.5	Onondaga	-shatter 6 thermally altered
15160 10 11.1 15161 1 3.2 15162 1 1.0 10790 19 15.3 10791 1 1.6 10792 17 7.9 10793 16 3.1		Onondaga	-random end -retouched secondary knapping flake
15162 1 3.2 15762 1 1.0 10790 19 15.3 10791 1 1.6 10792 17 7.9 10793 16 3.1	11.1	Onondaga	combined sample
15162 1 1.0 10790 19 15.3 10791 1 1.6 10792 17 7.9 10793 16 3.1		Onondaga	-complete; triangular
10790 19 15.3 10791 1 1.6 10792 17 7.9 10793 16 3.1	1.0	Onondaga	-random side -retouched secondary knapping flake
17 7.9	15.3	Onondaga	-secondary knapping flake -4 thermally altered
17 7.9	1.6	Onondaga	-primary thinning flake
3.1	7.9	Onondaga	-shatter -3 thermally altered
	.e.	Onondaga	secondary retouch flake 6 thermally altered
10994 1 1.0 utilized flak		Onondaga	-secondary knapping flake
10795 1 1.1 utilized flak		Onondaga	-secondary knapping flake
10796 1 1.2 utilized flak		Onondaga	-secondary knapping flake
492-221 10797 1 0.9 spokeshaw (continued)	1 0.9 spokeshave / scraper	Onondaga	-random side -retouched shatter

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						Thermal	
Provenience	Cat #	Quantity	Weight	Artifact Class	Material	Alteration	Comments
492-223	10810	9	4.5	debitage	Onondaga		secondary knapping flake
	10811	15	2.5	debitage	Onondaga		-secondary retouch flake
	10812	7	3.2	debitage	Onondaga	yes	-shatter -3 thermally altered
	10813	1	0.5	utilized flake	Onondaga		secondary knapping flake
	10814	1	0.5	utilized flake	Onondaga		-secondary knapping flake
	10815	٠.	1.3	utilized flake	Onondaga		-secondary knapping flake
	10816	1	2'0	utilized flake	Onondaga		-shatter
	10817	-	3.2	drill	Onondaga		-base and mid-section
493-220	15165	જ	36.9	debitage	Onondaga	yes	-combined sample -6 thermally altered
	15166	1	1.6	scraper	Onondaga		random side retouched secondary knapping flake
493-221	15170	50	31.9	debitage	Onondaga	yes	-combined sample 3 thermally altered
	15335	1	0.2	debitage	Onondaga		-secondary retouch flake
493-222	15175	10	7.2	debitage	Onondaga	yes	—combined sample →2 thermally attered
493-223	15180	47	21.6	debitage	Onondaga	yes	-combined sample -2 thermally attered
	15340	-	0.2	debitage	Onondaga		-secondary retouch flake
	15341	-	0.2	debitage	Onondaga		-shatter

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Provenience	Cat#	Quantity	Weight	Artifact Class	Material	Thermal Alteration	Comments
493-224	15185	8	15.9	debitage	Onondaga	yes	-combined sample -5 thermally altered
	15186	1	0.5	biface	Onondaga		-tip
	15346	2	0.4	debitage	Onondaga		secondary retouch flake
494-220	15190	23	12.8	debitage	Onondaga	yes	-combined sample 2 thermally altered
	15191		9.0	biface	Onondaga		-tip
494-221	15195	. 45	24.7	debitage	44 Onondaga 1 Ancaster	yes	combined sample 6 thermally altered
	15196	-	1.3	graver / utilized flake	Onondaga		-retouched secondary knapping flake
	15197	_	2.0	biface	Onondaga		-base
	15198	-	2.6	scraper	Onondaga		-random side -retouched secondary knapping flake
494-222	15200	40	17.7	debitage	Onondaga	yes	combined sample 9 thermally altered
	15201	-	2.3	biface	Onondaga		-mid-section and tip
	15350	2	0.3	debitage	Onondaga		shatter
494-223	15205	46	16.4	debitage	Onondaga	yes	combined sample 8 thermally attered
	15206	-	8:0	biface	Onondaga		-base fragment
494-224	15210	09	30.1	debitage	Onondaga	yes	combined sample 9 thermally altered
	15211	-	1.5	scraper	Onondaga		random end and side retouched secondary knapping flake
	15212	-	1.5	projectile point	Onondaga	yes	-base and mid-section; triangular
	15213	-	1.1	graver	Onondaga		-retouched secondary knapping flake
	15355	2	0.4	debitage	Onondaga		-shatter

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Provenience	Cat#	Quantity	Weight	Artifact Class	Material	Thermal Alteration	Comments
494-229*	10830	18	10.2	debitage	Onondaga	yes	secondary knapping flake 6 thermally altered
	10831	-	4.6	debitage	Onondaga	yes	-shatter -8 thermally altered
	10832	Q	1.3	debitage	Onondaga	yes	secondary retouch flake 3 thermally altered
495-220	15215	ž	35.8	debitage	52 Onondaga 1 Ancaster 1 Selkirk	yes	combined sample 5 thermally attered
495-221	15220	59	32.2	debitage	58 Onondaga 1 Upper Mercer	yes	-combined sample -10 thermally attered
	15221	-	1.4	scraper	Onondaga		-random side -retouched shatter
	15222	-	2.1	soraper	Onondaga		-hafted (?) end -retouched shatter
	15223	-	1.3	scraper	Onondaga		random end and side retouched secondary knapping flake
495-222	10850	20	10.8	debitage	19 Onondaga 1 quartz flake	yes	secondary knapping flake 9 thermally altered
	10851	16	8.0	debitage	Onondaga	yes	-shatter 1 thermally altered
	10852	21	3.5	debitage	Onondaga		secondary retouch flake
	10853	-	6.0	utilized flake	Onondaga	yes	-shatter
	10854	ζ	0.1	utilized flake	Onondaga		-shatter
495-223	15225	90	27.6	debitage	49 Onondaga 1 Ancaster	yes	combined sample 1 thermally altered
	15226	4	5.1	biface	Ancaster		-mid-section and tip -probably projectile point
	15227	+ -	1.8	scraper	Onondaga		-random end -retouched shatter

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Provenience	Cat #	Quantity	Weight	Artifact Class	Material	Thermal	Commente
495-223 (continued)	15228	-	2.4	scraper / utilized flake	Onondaga		-random end -retouched shatter, also utilized on lateral margin
495-224	12050	17	10.2	debitage	Onondaga	yes	-secondary knapping flake -5 thermally altered
	12051	15	2.9	debitage	Onondaga	yes	-secondary retouch flake 1 thermally altered
	12052	17	10.1	debitage	Onondaga	yes	shatter 13 thermally altered
	12053	. 2	3.6	debitage	Onondaga		-primary thinning flake
	12054	-	1.5	scraper	Onondaga		-random side -retouched secondary knapping flake
	12055	-	0.4	utilized flake	Onondaga		-secondary knapping flake
	12056	-	0.5	biface	Onondaga		-tip
	15230	70	30.0	debitage	Onondaga	yes	combined sample 25 thermally altered
	15231	-	1.2	projectile point	Onondaga		-complete; triangular
	15232	-	1.0	biface	Onondaga		-mid-section
495-229*	12170	м	2.4	debitage	Onondaga	yes	secondary knapping flake 1 thermally altered
1	12171	-	0.2	debitage	unidentified		-shatter
	15235	8	15.8	debitage	35 Onondaga 1 unknown	yes	-combined sample -5 thermally attered
	15236	-	0.7	drill	Onondaga		-tip
495-230*	15240	21	7.7	debitage	20 Onondaga 1 Ancaster	yes	-combined sample 2 thermally altered

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Provenience	Cat #	Quantity	Weight	Artifact Class	Material	Thermal Alteration	Comments
495-235*	15245	33	11.6	debitage	32 Onondaga 1 Ancaster	yes	-combined sample -3 thermally altered
	15246	1	3.0	projectile point	Onondaga		-complete; triangular
	15360	1	0.1	debitage	Onondaga		secondary retouch flake
496-220	15250	8	30.0	debitage	55 Onondaga 1 Ancaster	yes	-combined sample -5 thermally altered
	15251	-	6.0	scraper	Onondaga		-random side -retouched secondary knapping flake
	15252	-	1.3	scraper	Onondaga		-random end and side -retouched shatter; also utilized on lateral margins
496-221	15255	57	27.1	debitage	56 Onondaga 1 Ancaster	yes	combined sample 3 thermally aftered
	15256	-	0.7	biface	Onondaga		-mid-section
496-222	10860	23	16.3	debitage	Onondaga	yes	secondary knapping flake 7 thermally altered
	10861	23	8. 8.	debitage	Onondaga	yes	secondary retouch flake 4 thermally altered
	10862	22	σ. œ	debitage	Onondaga	yes	-shatter -5 thermally altered
	10863	-	3.1	debitage	Onondaga		-primary thinning flake
	10864	-	0.8	utilized flake	Onondaga		-secondary knapping flake
	10865	-	0.8	utilized flake	Onondaga		-secondary knapping flake
	10866	-	1.6	biface	Onondaga		-tip and mid-section
	10867	7-	0.4	biface	Onondaga		—tip
	10868	1	1.5	projectile point	Onondaga		-complete; triangular

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Provenience	Cat#	Quantity	Weight	Artifact Class	Material	Thermal	Comments
496-223	15260	06	37.4	debitage	86 Onondaga 4 Ancaster	yes	-combined sample -19 thermally altered
	15365	-	0.1	debitage	Onondaga		-secondary knapping flake
	15366	2	0.3	debitage	Onondaga	yes	-secondary retouch flake 1 thermally altered
	15367	2	0.5	debitage	Onondaga		shatter
496-224	10880	. 42	24.4	debitage	42 Onondaga 1 Ancaster 1 Selkirk?	yes	-secondary knapping flake -13 thermally altered
	10881	က	8.2	debitage	Onondaga	yes	primary thinning flake 2 thermally aftered
	10882	22	9.4	debitage	Onondaga	yes	-shatter -8 thermally altered
	10883	42	6.1	debitage	41 Onondaga 1 Ancaster	yes	-secondary retouch flake -11 thermally altered
	10884	-	3.5	utilized flake	Onondaga		-primary thinning flake
	10885	1	0.8	utilized flake	Onondaga		-secondary knapping flake
•	10886	-	0.3	scraper	Onondaga		-random side -retouched secondary knapping flake
	10887	-	9.0	projectile point	Onondaga		-base
	10888	-	0.1	biface	Onondaga		-tip
497-220	15265	37	30.6	debitage	Onondaga	yes	-combined sample -6 thermally altered
497-221	15270	23	17.6	debitaga	Onondaga	yes	combined sample 8 thermally attered
	15271	-	2.6	scraper	Onondaga		-random end -retouched secondary knapping flake

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Provenience	Cat#	Quantity	Weight	Artifact Class	Material	Thermal Alteration	Comments
497-222	12160	12	7.4	debitage	Onondaga	yes	-secondary knapping flake -5 thermally altered
	12161	g	4.3	debitage	Onondaga	yes	-shatter -2 thermally altered
	12162	∞	1.3	debitage	Onondaga	yes	-secondary retouch flake -1 thermally altered
	12163	-	2.1	scraper	Onondaga		-random side -retouched shatter
	15275	. 17	21.3	debitage	Onondaga	yes	-combined sample -1 thermally altered
497-223	10900	ĸ	3.3	debitage	Onondaga	yes	-secondary knapping flake 1 thermally altered
	10901	m		debitage	Onondaga	yes	-shatter 2 thermally altered
	10902	τ-	1,1	utilized flake	Onondaga		-secondary knapping flake
	10903	-	9.0	biface	Onondaga		-tip
	10904	-	3.6	wedge	Onondaga		-core fragment
	15280	70	28.6	debitage	69 Onondaga 1 Ancaster	yes	-combined sample -18 thermally altered
	15281	-	6.0	scraper	Onondaga		-random side
	15282	-	2.9	biface	Onondaga		-base fragment and mid-section
497-224	10910	ω	5.2	debitage	Onondaga	yes	-secondary knapping flake -3 thermally altered
	10911	12	7.7	debitage	Onondaga	yes	-shatter 4 thermally altered
	10912	7	4.1	debitage	Onondaga	yes	-secondary retouch flake -2 thermally altered
	10913	-	8.0	utilized flake	Onondaga		-secondary knapping flake

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Provenience	Cat#	Quantity	Weight	Artifact Class	Material	Thermal Alteration	Comments
497-224 (contiuned)	10914	1	0.5	utilized flake	Onondaga	yes	shatter
	15285		6.0	debitage	Onondaga	yes	combined sample 1 thermally attered
•	15286	-	1.4	projectile point	Onondaga		-complete; triangular
	15287	-	2.0	scraper	Onondaga		random end and side retouched secondary knapping flake
	15290	37	21.4	debitage	36 Onondaga 1 Selkirk	yes	combined sample 8 thermally aftered
499-244*	15295	5	1.4	debitage	Onondaga		-combined sample
499-254*	15300	7	8.8	debitage	4 Onondaga 3 Ancaster	yes	-combined sample -4 thermally altered
499-267*	15305	2	0.2	debitage	Onondaga	yes	-combined sample -1 thermally attered
500-155*	15310	-	0.3	debitage	Onondaga	yes	secondary retouch flake
500-160*	10930	1	1.0	debitage	Onondaga		secondary retouch flake
500-180*	10935	ဇ	1.7	debitage	Onondaga	yes	secondary knapping flake 3 thermally altered
	10936	2	1.0	debitage	Onondaga		secondary retouch flake
	10937	89	2.4	debitage	6 Onondaga 2 Upper Mercer	yes	shatter 3 thermally altered
500-190*	10950	2	1.1	debitage	Onondaga		-secondary knapping flake

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Provenience	Cat#	Quantity	Weight	Artifact Class	Motorical	Thermal	1	
500-199*	10955	9	46	debitage	4 Onondaga	Alteration	CommentsSecondary knapping flake	
	10956	·			Z Upper Mercer		-1 thermally altered	
	0000	7	9.0	debitage	Onondaga		-secondary retouch flake	
	10957	က	4.5	debitage	2 Onondaga 1 Upper Mercer	yes	-shatter -2 thermally altered	T
	10958	1	6.0	drill	Onondaga		-mid-section	
500-210⁴	10970	4	2.9	debitage	Onondaga	yes	secondary knapping flake 2 thermally altered	<u> </u>
	10971	м	2.0	debitage	Onondaga	yes	shatter 2 thermally altered	
	10972	-	0.7	debitage	Onondaga		-secondary retouch flake	7
	10973	τ -	3.2	spokeshave / spokeshave	Onondaga		-secondary knapping flake	
500-220*	10980	16	7.8	debitage	15 Onondaga 1 Ancaster	yes	secondary knapping flake 	
	10981	2	2.7	debitage	Onondaga	yes	primary thinning flake 1 thermally altered	
1	10982	ပ	5.9	debitage	Onondaga	yes	-shatter -2 themally altered	
1	10983	. 12	2.4	debitage	Onondaga	yes	secondary retouch flake 4 thermally altered	
	10985	1	8.0	biface	Onondaga		-base and mid-section fragment	
	10986	-	0.1	scraper	Onondaga		-random side -retouched shatter	
500-229*	11000	4	2.9	debitage	2 Onondaga 2 Kettle Point		-secondary knapping flake	
	11001	4	2.3	debitage	3 Onondaga 1 Flint Ridge	yes	-shatter 1 thermally altered	
	11002	-	1.2	utilized flake	Onondaga		-secondary knapping flake	

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						Thermal	
Provenience	Cat #	Quantity	Weight	Artifact Class	Material	Alteration	Comments
500-229* (continued)	11003	*-	0.3	biface	Onondaga		-tip
\$20-200*	11020	2	2.0	debitage	Onondaga		-secondary knapping flake
	11021	2	1.5	debitage	Onondaga		shatter
	11022	2	0.8	debitage	1 Onondaga 1 Haldimand		-secondary retouch flake
			5 m ²	5 m ² RECORDING UNITS	TS		
480.200 post #9	12980	-	0.7	utilized flake	Onondaga		-secondary knapping flake
480-205 post #2	12340	-	1.0	debitage	Onondaga	yes	shatter
480-215 	12965	ļ .	8.6	debitage	Onondaga		-core fragment
-post #10	12985		0.4	debitage	Onondaga		
-post #18	13005	1	3.1	debitage	Onondaga	 	-secondary knapping flake
	13006	2	0.8	debitage	Onondaga		-shatter
 	13007	 - 	3.5	biface	Onondaga		-mid-section and tip
-post #28	13015	10	3.3	debitage	Onondaga	yes	-secondary knapping flake -2 thermally altered
	13016	11	5.1	debitage	Onondaga	yes	-shatter -2 thermally altered
1 1 1	13017	10	6.0	debitage	Onondaga	yes	secondary retouch flake 2 thermally altered
-post #29	13020	-	2.1	debitage	Onondaga		-secondary knapping flake
-post #30	13025	-	0.7	debitage	Onondaga		secondary knapping flake
	13026	7	9.0	debitage	Onondaga		-shatter

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Provenience	Cat#	Quantity	Weight	Artifact Class	Material	Thermal	Comments
480-215 (continued)	13030	3	6.6	debitage	Onondaga		-secondary knapping flake
-post #31	13031	ဧ	1.1	debitage	Onondaga	yes	-shatter -2 thermally altered
 	13032	-	0,1	debitage	Onondaga		-secondary retouch flake
-post #42	13040	1	3.5	debitage	Onondaga		
480-225 -surface	12431	-	0.1	debitage	Onondaga		secondary knapping flake
480-230 -post #14	12995		0.4	debitage	Onondaga		secondary knapping flake
480-235 surface	12455	2	2.6	debitage	Onondaga		primary thinning flake
	12456	Ŋ	1.9	debitage	Onondaga	yes	-secondary knapping flake -1 thermally altered
	12457	7	5.1	debitage	Onondaga	yes	-shatter 3 thermally attered
•	12458	2	0.1	debitage	Onondaga		-secondary knapping flake
	12459	-	1.8	wedge	Onondaga		-biface
	12460	-	5.1	graver / utilized flake	Onondaga		-retouched shatter, also utilized on lateral margin
-post #2	12960	-	1.5	debitage	Onondaga		-shatter
	12961	7-	1.1	drill	Onondaga		complete
485.225 post #2	13055	-	0.1	debitage	Onondaga		-shatter
-post #11	12990	-	41.3	debitage	Onondaga	 	
490-210 —post #8	12970	-	5.1	debitage	Onondaga		secondary knapping flake
6# Isod-	12975	-	9:9	debitage	Onondaga		shatter

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Provenience	Cat#	Quantity	Weight	Artifact Class	Material	Thermal	Commente
490-220 (continued)	13010	1	0.8	debitage	Onondaga		secondary knapping flake
-post #20	13011	_	1.3	graver	Onondaga		-secondary knapping flake
495-210 post#1	12950	_	0.8	debitage	Onondaga		-secondary knapping flake
				FEATURES			
Feature 1	12480	5	17.3	debitage	Onondaga		-primary thinning flake
	12481	<i>2</i> 9 .	6.09	debitage	Onondaga	yes	-secondary knapping flake -8 thermally altered
	12482	45	28.0	debitage	Onondaga	yes	-shatter -10 thermally altered
	12483	57	8.7	debitage	Onondaga	yes	-secondary retouch flake -3 thermally altered
	12484	-	2.3	scraper / utilized flake	Onondaga		-random end -retouched secondary knapping flake
	12485	-	6.0	utilized flake	Onondaga		-secondary knapping flake
	12486	-	9.0	utilized flake	Onondaga	yes	-secondary knapping flake
	12487	-	1.8	utilized flake	Onondaga		-core trimming
	12490	æ.	4.4	debitage	Onondaga	yes	secondary knapping flake 1 thermally aftered
	12491	10	0.5	debitage	Onondaga		-secondary retouch flake
north ½ (level 3)	10001	2	1.8	debitage	Onondaga		-secondary knapping flake
	10002	9	6.0	debitage	Onondaga		-secondary retouch flake

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Provenience	Cat#	Quantity	Weight	Artifact Class	Material	Thermal	Commonte
Feature 1 north % (level 3)	12495	3	1.0	debitage			-Secondary knapping flake
(continued)	12496	7	0.4	debitage	Onondaga		-secondary retouch flake
	12497	1	0.8	utilized flake	Onondaga	yes	-shatter
-north % (level 5)	12500	2	2.7	debitage	Onondaga	yes	-secondary knapping flake 1 thernally altered
	12501	1	0.1	debitage	Onondaga		secondary retouch flake
Feature 3 —quad nw / south ½	10010	Γ.	1.4	debitage	Onondaga		secondary knapping flake
	10011	 - 	0.3	debitage	Onondaga		shatter
–ne quad	12505	-	2.4	utilized flake		 	-shatter
Feature 6	12510	-	0.3	debitage	Onondaga		secondary knapping flake
Feature 7surface	10020	4	2.5	debitage	Onondaga	yes	secondary knapping flake 1 thermally altered
	10021	9	1.0	debitage	Onondaga		secondary retouch flake
	10022		5.5	debitage	Onondaga	yes	-shatter 4 thermally altered
	10023	-	17.8	debitage	Onondaga		-core fragment
	10024	_	18.3	debitage	Onondaga		-core fragment
	10025	 - 	4.6	biface	Onondaga		-complete; triangular
Feature 7ageneral	12040	г	1.9	debitage	Onondaga		secondary knapping flake
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12041	-	0.8	debitage	Onondaga		secondary retouch flake
penb ws	12042	-	9.0	biface	Onondaga		-tip
	12075	မ	4.6	debitage	Onondaga	yes	-secondary knapping flake 1 thermally altered
	12076	9	6.1	debitage	Onondaga		shatter
	12077	4	1.2	debitage	Onondaga		secondary retouch flake

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Provenience	Cat#	Quantity	Weight	Artifact Class	Material	Thermal Alteration	Comments
Feature 7a	12043	-	0.8	utilized flake	Onondaga		-secondary knapping flake
penb wu-	12090	2	6.0	debitage	Onondaga		primary thinning flake
	12091	۵	4.7	debitage	7 Onondaga 1 Upper Mercer	yes	secondary knapping flake 4 thermally attered
	12092	Ø	6.8	debitage	Onondaga	yes	-shatter 4 thermally altered
	12093	18	2.3	debitage	Onondaga	yes	-secondary retouch flake 1 thermally altered
	12094	1	0.2	utilized flake	Onondaga		-shatter
· ·	12095	-	6.0	spokeshave	Onondaga		-secondary knapping flake
	12096	 - 	0.6	utilized flake	Onondaga		secondary knapping flake
	12515	_	1.9	debitage	Onondaga	 	primary thinning flake
	12516	-	0.3	debitage	Onondaga		secondary knapping flake
	12517	13	0.5	debitage	Onondaga		-secondary retouch flake
	12518	2	0.3	debitage	Onondaga	yes	-shatter -1 thermally altered
Feature 7b	11030	6	5.1	debitage	Onondaga		-secondary knapping flake
-	11031	1	2.5	debitage	Onondaga		-primary thinning flake
	11032	12	5.8	debitage	Onondaga	yes	-shatter 3 thermally altered
	11033	19	3.4	debitage	Onondaga	yes	-secondary retouch flake 2 thermally altered
	11034	-	0.7	utilized flake	Onondaga		-secondary knapping flake
 	11035	-	6:	scraper	Upper Mercer		-random side -retouched shatter, also utilized on lateral margin

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Provenience	Cat #	Quantity	Weight	Artifact Class	Material	Thermal Alteration	Comments
Feature 7b	10030	14	10.4	debitage	Onondaga		-secondary knapping flake
(continued)	10031	15	2.0	debitage	Onondaga		secondary retouch flake
	10032	15	6.3	debitage	Onondaga		shatter
	10033	-	1.4	utilized flake	Upper Mercer		-secondary knapping flake
-sw dnad	12000	1	11.7	debitage	Onondaga		
	12001	4	1.7	debitage	Onondaga		secondary knapping flake
	12002	, D	1.7	debitage	Onondaga	yes	shatter 1 thermally altered
	12520	1	1.5	debitage	Onondaga		-secondary knapping flake
	12511	2	0.1	debitage	Onondaga		-secondary retouch flake
Feature 7c	10050	-	1.1	debitage	Onondaga	yes	-shatter
	10051	-	6.0	scraper	Onondaga		random side retouched secondary knapping flake
-north ½	10040	7	2.4	debitage	Onondaga	 - - 	-secondary knapping flake
	10041	2	0.5	debitage	Onondaga	yes	shatter
	10042	-	0.2	debitage	Onondaga		-secondary retouch flake
	12525	-	0.5	debitage	Onondaga		-secondary retouch flake
-north ½ (post)	12070	-	0.8	debitage	Onondaga		-secondary retouch flake
-south 1/2	11040	2	1.5	debitage	Onondaga	yes	-secondary knapping flake -3 thermally attered
	11041	8	2.2	debitage	Onondaga	yes	-shatter -2 thermally altered
	11042	2	6.0	debitage	Onondaga		secondary retouch flake

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Provenience	Cat#	Quantity	Weight	Artifact Class	Material	Thermal Alteration	Comments
Feature 8ploughzone / feature interface	10300	4	1.0	debitage	Onondaga		secondary knapping flake
	10301	-	0.1	debitage	Onondaga		-secondary retouch flake
	10302	4	3.7	debitage	Onondaga	yes	-shatter 1 thermally altered
	10310	ю	1.5	debitage	Onondaga		-secondary knapping flake
	10311	2	0.1	debitage	Onondaga		-secondary retouch flake
	10312	-	0.3	debitage	Onondaga		-shatter
•	10313	1	0.1	utilized flake	Onondaga		-shatter
	10320	2	0.3	debitage	Onondaga		-secondary retouch flake
	10321	2	0.5	debitage	Onondaga		-shatter
Feature 8 -sw quad	10250	104	70.6	debitage	Onondaga	yes	ary knapg ally alter
•	10251	58	23.5	debitage	Onondaga	yes	shatter 8 thermally altered
•	10252	50	6.3	debitage	49 Onondaga 1 Haldimand	yes	-secondary retouch flake 1 thermally altered
	10253	4	5.0	debitage	Onondaga		primary thinning flake
•	10254	-	1.1	scraper	Onondaga		-random side -retouched shatter
	10255	-	0.5	utilized flake	Onondaga		-secondary knapping flake
	10256	-	5.2	projectile point	Onondaga		-complete; triangular
	10257	-	1.0	biface	Onondaga		-tip
	10258	-	3.4	biface	Onondaga		-complete; blank

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Provenience	Cat#	Quantity	Weight	Artifact Class	Material	Thermal	Comments
Feature 8 -sw quad (continued)	10259	-	1.0	scraper / utilized flake	Onondaga		random end retouched shatter, also utilized on lateral margin
	10260	-	3.2	wedge	Onondaga	yes	-primary thinning flake
	10261	*	3.4	biface	Onondaga		-base
	10262	-	0.3	utilized flake	Onondaga		-secondary knapping flake
	12527	4	0.1	debitage	Onondaga		-secondary retouch flake
–ח א quad (level 1)	10120	. 12	6.1	debitage	11 Onondaga 1 Kettle Point	yes	
	10121	27	3.9	debitage	Onondaga	yes	secondary retouch flake 3 thermally altered
	10122	22	7.6	debitage	21 Onondaga 1 Selkirk	yes	-shatter -2 thermally altered
	10123	 	4.	utilized flake	Onondaga		-primary thinning flake
−nw quad (level 2)	10140	9	19.7	debitage	Onondaga	l se l	
	10141	213	125.1	debitage	211 Onondaga 1 Ancaster 1 Kettle Point	yes	-secondary knapping flake -17 thermally altered
	10142	133	8:44	debitage	Onondaga	yes	-secondary retouch flake -15 thermally altered
	10143	116	19.1	debitage	Onondaga	yes	secondary retouch flake 8 thermally altered
	10144	2	32.8	debitage	Onondaga		core fragments
-	10145	-	6.9	utilized flake	Onondaga		-secondary knapping flake
	10146	-	2.5	utilized flake	Onondaga		-secondary knapping flake

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Provenience	Cat#	Quantity	Weight	Artifact Class	Material	Thermal	- Commonto
Feature 8	10147		0.8	utilized flake	Onondaga	Aliciation	-Secondary knapojna flake
(continued)	10148	ļ	3.0	scraper	Onondaga		-random side -retouched primary thinning flake
	10149	-	1.2	utilized flake	Onondaga		-secondary knapping flake
	10151	1	2.0	utilized flake	Onondaga		-secondary knapping flake
	10152	-	0.3	scraper	Onondaga		-random end and side -retouched shatter
	10153	. 1	0.5	utilized flake	Onondaga		-secondary knapping flake
	10154	-	0.5	spokeshave	Onondaga		-secondary knapping flake
	10155	-	0.5	utilized flake	Onondaga		-shatter
	10156	-	1.2	biface	Onondaga		-tip
	10157	-	9.8	projectile point	Onondaga		-base and mid-section; triangular, joins with #10092
	10158	-	1.7	projectile point	Onondaga		base and mid-section
-ne quad (level 1)	10060	49	18.9	debitage	Onondaga	yes	secondary knapping flake thermally altered
	10061	30	10.1	debitage	Onondaga	yes	shatter 10 thermally altered
	10062	26	3.5	debitage	Onondaga	yes	secondary retouch flake 2 thermally altered
	10063	1	1.4	debitage	Onondaga		primary thinning flake
1	10064	-	4.5	utilized flake	Onondaga		-primary thinning flake
1	10065	-	6:0	utilized flake	Onondaga		-shatter
	10066	-	0.4	utilized flake	Onondaga		-secondary knapping flake
 	10067	-	9:0	scraper	Onondaga		-random end -retouched secondary knapping flake

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Provenience	Cat#	Quantity	Weight	Artifact Class	Material /	Thermal Alteration	Comments
Feature 8 -ne quad (level 1)	10068	1	2.3	drill			-mid-section and tip
(continued)	10069	-	1.4	biface	Onondaga		-tip
	10070	- - -	0.3	spokeshave	Onondaga		-shatter
Feature 8 —ne quad (level 2)	10080	78	111.5	debitage	Onondaga	hes	
	10081	ъ	22.9	debitage	Onondaga	yes	-primary thinning flake 1 thermally altered
	10082		49.5	debitage	Onondaga	yes	-primary reduction flake -2 thermally altered
	10083	121	72.8	debitage	120 Onondaga 1 Kettle Point	yes	-shatter 23 thermally altered
	10084	105	14.2	debitage	Onondaga	yes	-secondary retouch flake 9 thermally altered
•	10085	-	5.7	graver / utilized flake	Onondaga		-retouched primary thinning flake
	10086	-	1.4	spokeshave	Onondaga		-primary thinning flake
1	10087	-	0.7	utilized flake	Onondaga		-secondary knapping flake
	10088	-	6.0	utilized flake	Onondaga		-shatter
1	10089	-	9.0	utilized flake	Onondaga		-secondary knapping flake
	10090	_	0.7	utilized flake	Onondaga		-secondary knapping flake
1	10091	_	0.2	utilized flake	Onondaga		-secondary knapping flake
	10092	-	ŀ	projectile point	Onondaga		-tip; joins with #10157
	10093	-	1.6	biface	Onondaga		-mid-section and tip
	10094	-	0.7	graver / utilized flake	Onondaga		-retouched secondary knapping flake
	10095	-	28.9	biface	Onondaga		complete; hafted knife
	10096	-	0.5	biface	Onondaga		-tip

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Provenience	Cat #	Quantity	Weight	Artifact Class	Material	Thermal Alteration	Comments
Feature 8 -ne cuad (level 2)	12530	2	11.4	debitage			-primary thinning flake
(continued)	12531	е	1.2	debitage	Onondaga		-secondary knapping flake
	12532	9	1.2	debitage	Onondaga		-shatter
	12533	32	6:0	debitage	Onondaga		-secondary retouch flake
	12534	-	0.8	utilized flake	Onondaga		-primary thinning
	12535	-	4.0	utilized flake	Onondaga		-shatter
	12536	,	0.7	drill	Onondaga		-complete
	12540	-	0.1	debitage	Onondaga		-secondary retouch flake
	12545	2	1.7	debitage	Onondaga		secondary knapping flake
	12546	48	2.0	debitage	Onondaga		-secondary retouch flake
	12547		0.5	debitage	Onondaga	yes	-shatter -1 thermally altered
	12560	2	4.0	debitage	Onondaga		-secondary knapping flake
	12561	43	1.3	debitage	Onondaga		secondary retouch flake
	12563	5	0,5	debitage	Onondaga		-shatter
	12570	8	1.3	debitage	Onondaga		-secondary knapping flake
	12571	41	0.8	debitage	Onondaga		secondary retouch flake
	12572	6	0.7	debitage	Onondaga		-shatter
-ne quad (level 4)	10110	m	2.1	debitage	Onondaga	yes	secondary knapping flake -1 thermally altered
	10111	4	1.1	debitage	Onondaga		-shatter
	10112	2	0.5	debitage	Onondaga		-secondary retouch flake

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Provenience	Cat#	Quantity	Weight	Artifact Class	Material	Thermal	ommont.
Feature 8 -se quad (continued)	10180	151	110.4	debitage	Onondaga	yes	-secondary knapping flake -12 thermally altered
	10181	66	45.9	debitage	Onondaga	yes	-shatter -16 thermally altered
	10182	35	12.7	debitage	Onondaga	yes	secondary retouch flake 10 thermally altered
	10183	-	3.2	debitage	Onondaga	yes	-primary thinning flake
	10185	-	1.4	utilized flake	Onondaga		-secondary knapping flake
	10186	-	0.7	utilized flake	Onondaga	sək	-shatter
	10187	-	0.8	utilized flake	Onondaga	yes	-secondary knapping flake
	10188	-	1.7	utilized flake	Onondaga	yes	-secondary knapping flake
	10189	1	1.2	utilized flake	Onondaga		-shatter
	10190	1	2.3	utilized flake	Onondaga		-secondary knapping flake
	10191	-	1.5	biface	Onondaga		-base
-	10193	-	1.2	utilized flake	Onondaga		-shatter
	10194	-	2.6	biface	Onondaga		-mid-section fragment
 	10196	 - 	7.6	utilized flake	Onondaga		-primary thinning flake
Feature 9	12580	-	0.2	debitage	Onondaga		secondary retouch flake
	12581	2	0.1	debitage	Onondaga		-secondary retouch flake
Feature 10	12585	-	1.6	debitage	Onondaga		-primary thinning flake
	12586	-	0.4	debitage	Onondaga	yes	-shatter -1 thermally altered
Feature 11	12590	-	0.2	debitage	Onondaga	yes	-shatter 1 thermally altered
Feature 12	12595	1	1,1	debitage	Onondaga		shatter

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				,			
Provenience	Cat#	Quantity	Weight	Artifact Class	Material	Thermal Alteration	Comments
Feature 13	12598	1	9.0	utilized flake	Onondaga		-shatter
Feature 14	12600	1	0.1	debitage	Onondaga		-secondary knapping flake
	12601	Ψ.	0.1	debitage	Upper Mercer		-secondary retouch flake
Feature 16	12605	r.	2.9	debitage	Onondaga		secondary knapping flake
	12606	,	1.3	debitage	Onondaga		shatter
	12607	-	0.1	debitage	Onondaga		-secondary retouch flake
Feature 18	12610	С	1.2	debitage	Onondaga		-secondary knapping flake
	12611	4	2.4	debitage	Onondaga	yes	shatter 2 thermally altered
	12612	21	0.5	debitage	Onondaga		secondary retouch flake
Feature 23	12620	-	0.8	scraper	Onondaga		-random end and side -retouched shatter
Feature 27	12625	7	0.5	debitage	Onondaga	yes	-secondary knapping flake 1 thermally altered
	12626	7	0.2	debitage	Onondaga	yes	secondary knapping flake 1 thermally altered
Feature 28	12630	-	6.0	debitage	Onondaga		-secondary knapping flake
	12631	-	9'0	debitage	Onondaga		-shatter
Feature 30a —South 1/2	12010	5	2.5	debitage	Onondaga		secondary knapping flake
	12011	4	1.5	debitage	Onondaga	yes	shatter 1 thermally altered
	12012	5	1.3	debitage	Onondaga		secondary retouch flake
Feature 30a —north 1⁄2	12635	7	9.0	debitage	Onondaga	yes	-secondary knapping flake 1 thermally altered
	12636	6	0.2	debitage	Onondaga	yes	-secondary retouch flake 1 thermally altered

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Provenience	Cat#	Quantity	Weight	Artifact Class	Material	Thermal Alteration	Comments
Feature 30b	12670	-	0.3	debitage	Onondaga		secondary knapping flake
	12671	-	0.1	debitage	Onondaga		-secondary retouch flake
	12672	-	3.8	scraper	Onondaga		-random end and side -retouched shatter
	12673	-	9:0	biface	Onondaga		-mid-section
Feature 47	12680	-	0.3	debitage	Onondaga		-secondary knapping flake
Feature 48	11080	2	1.6	debitage	Onondaga		-secondary knapping flake
	11081	ω	4.4	debitage	Onondaga	yes	shatter 2 thermally altered
	11082	5	1.2	debitage	Onondaga		secondary retouch flake
	11083	-	1.9	debitage	Onondaga		primary thinning flake
	11084	-	3.3	wedge	Onondaga		-biface fragment
	12682	-	0.4	debitage	Onondaga	yes	shatter 1 thermally altered
Feature 49	12685	-	0.1	debitage	Onondaga		secondary retouch flake
	12686	-	1.1	drill	Onondaga		mid-section and tip; blank
Feature 51	12120	35	21.4	debitage	Onondaga	yes	-secondary knapping flake 4 thermally altered
	12121	40	18.2	debitage	39 Onondaga 1 Kettle Point	yes	-shatter 8 thermally altered
	12122	42	5.0	debitage	Onondaga	yes	secondary retouch flake 5 thermally altered
	12123	ю	6.9	debitage	Onondaga	yes	primary thinning flake 2 thermally altered
	12124	1	2.3	utilized flake	Onondaga		secondary knapping flake
	12125	T-	9.0	utilized flake	Onondaga	yes	-secondary knapping flake

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Provenience	Cat #	Quantity	Weight	Artifact Class	Material	Thermal Alteration	Comments
Feature 51 (continued)	12126	1	0.5	utilized flake	Onondaga		-secondary knapping flake
	12127	-	7.0	utilized flake	Onondaga		-secondary knapping flake
	12129	-	0.8	utilized flake	Onondaga		-secondary knapping flake
	12130	-	0.3	utilized flake	Onondaga		-shatter
	12131	-	0.3	spokeshave	Onondaga		-secondary knapping flake
	12132	1	0.1	utilized flake	Onondaga		-secondary retouch flake
	12133		0.1	utilized flake	Onondaga		-shatter
	12134	-	0.8	scraper	Onondaga		random end and side retouched secondary knapping flake
	12135	-	2.3	projectile point	Onondaga		-complete; triangular
Feature 52	12110	7	2.6	debitage	6 Onondaga 1 Ancaster	yes	secondary knapping flake 2 thermally altered
•	12111	ဖ	4.4	debitage	Onondaga	yes	-shatter 1 thermally altered
	12112	м	0.3	debitage	Onondaga	yes	-secondary retouch flake -1 thermally altered
-	12113	-	9.0	scraper	Onondaga		-random side -retouched secondary knapping flake
	12114	-	0.4	utilized flake	Onondaga	yes	-shatter
ı	12115	-	1.1	utilized flake	Onondaga	yes	-secondary knapping flake
	12690	4	£.1	debitage	Onondaga	yes	-secondary knapping flake 1 thermally altered
	12691	8	1.1	debitage	Onondaga	yes	-secondary retouch flake -1 thermally altered
	12692	10	1.2	debitage	Onondaga	yes	-shatter -2 thermally altered

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Provenience	Cat#	Quantity	Weight	Artifact Class	Material	Thermal Alteration	Comments
Feature 53	12690	4	0.8	debitage	Onondaga	yes	-shatter -3 thermally altered
	12695	1	4.1	debitage	Onondaga		primary thinning flake
	12696	æ	7.2	debitage	Onondaga	yes	-secondary knapping flake 4 thermally altered
	12697	10	4.6	debitage	Onondaga	yes	-shatter -3 thermally altered
	12698	т	0.2	debitage	Onondaga	yes	-secondary retouch flake -1 thermally altered
	12699	-	3.1	utilized flake	Onondaga	yes	-secondary knapping flake
	12700	-	6.0	scraper	Onondaga	yes	-random side -retouched shatter
	12701	-	0.3	utilized flake	Onondaga		-shatter
Feature 54	12710	-	1.4	debitage	Onondaga	yes	-shatter
	12711	_	0.3	debitage	Selkirk		-secondary knapping flake
Feature 57	12715	ч	2.1	debitage	Onondaga	yes	-secondary knapping flake 1 thermally altered
	12716	2	0.3	debitage	Onondaga	yes	shatter 1 thermally altered
Feature 63	12720	8	1.4	debitage	Onondaga		-secondary knapping flake
	12721	-	0.2	debitage	Onondaga		-shatter
Feature 67	12725	-	6:0	debitage	Onondaga		-shatter

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Provenience	Cat#	Quantity	Weight	Artifact Class	Material	Thermal Alteration	Comments
Feature 68 north %	12730	က	6.1	debitage	Onondaga	yes	-primary thinning flake -2 thermally altered
	12731	78	40.7	debitage	77 Onondaga 1 Ancaster	yes	-secondary knapping flake -25 thermally altered
	12732	76	8.3	debitage	Onondaga	yes	-secondary retouch flake -10 thermally attered
	12733	74	26.9	debitage	73 Onondaga 1 Upper Mercer	yes	-shatter -24 themaily altered
	12734		3.0	utilized flake	Onondaga		-secondary knapping flake
	12735	-	3.3	utilized flake	Onondaga		secondary knapping flake
	12736		4,4	utilized flake	Onondaga	yes	-primary thinning
	12737	-	1.6	utilized flake	Onondaga		-secondary knapping flake
	12738	T	1.5	wedge	Onondaga		-secondary knapping flake
	12739	-	2.3	spokeshave	Onondaga		-secondary knapping flake
	12740	-	1.5	utilized flake	Onondaga		-secondary knapping flake
	12742	-	4.	scraper	Onondaga		-random side -retouched secondary knapping flake
	12743	-	2.0	utilized flake	Onondaga		-secondary knapping flake
	12744	-	9.0	scraper	Onondaga		-random end and side retouched shatter
	12746	-	2.0	biface	Onondaga		-base
	12747	-	1.9	scraper	Onondaga	yes	-random end -retouched shatter
	12748	~	9.0	scraper	Onondaga		-random end -retouched secondary knapping flake
 	12749	-	0.1	utilized flake	Onondaga		-shatter

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Provenience	Cat #	Quantity	Weight	Artifact Class	Material	Thermal Alteration	Comments
Feature 68north 1/2 (continued)	12750	-	0.2	utilized flake	Onondaga		shatter
	12751	-	4.6	өбрэм	Onondaga		-primary thinning flake
	12752	-	6.3	projectile point	Onondaga		-base and mid-section; comer-notched
	12753	1	3.8	scraper	Onondaga		-random side -retouched primary thinning flake
	12754	-	2.3	spokeshave	Onondaga		-retouched shatter
 	12755		9:	scraper	Onondaga		-random end -retouched secondary knapping flake
Feature 68	12756	1	1.4	biface	Onondaga		mid-section and tip
	12770	8	1.4	debitage			-shatter
	12771	3	0.2	debitage	Onondaga		secondary retouch flake
	12775	7	0.1	debitage	Onondaga		-shatter
 	12776	-	1.0	ufilized flake	Onondaga		secondary knapping flake
Feature 69	10325	1	0.5	debitage	Onondaga		-secondary knapping flake
	10326	_	0.1	debitage	Onondaga	yes	-shatter
	12780	4	7.5	debitage	Onondaga	yes	primary thinning flake 2 thernally attered
	12781	35	23.4	debitage	Onondaga	yes	secondary knapping flake 3 thermally altered
	12782	17	9.6	debitage	Onondaga	yes	-shatter -8 thermally altered

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								- 1
Provenience	Cat#	Quantity	Weight	Artifact Class	Material	Thermal Alteration	Comments	
Feature 69 -south 1/4 (continued)	12783	თ	6.0	debitage	Onondaga	yes	secondary retouch flake 3 thermally altered	7
	12784	-	2.7	utilized flake	Onondaga		-shatter	T -
	12785	1	2.4	utilized flake	Onondaga		-primary thinning flake	T
	12786	1	3.4	utilized flake	Onondaga		-shatter	1
	12788	1	0.2	spokeshave	Onondaga		secondary knapping flake	T
	12789	-	2.0	scraper	Onondaga		-random side -retouched secondary knapping flake; also utilized on lateral margin	1
	12800	z,	6.5	debitage	Onondaga	yes	primary thinning flake 1 thermally altered	Т
	12801	52	27.6	debitage	Onondaga	yes	-secondary knapping flake 11 thermally altered	Τ
	12802	83	30.9	debitage	Onondaga	yes	-shatter -16 thermally altered	
	12803	26	2.6	debitage	Onondaga	yes	secondary retouch flake 6 thermally altered	
	12804	1	2.2	utilized flake	Onondaga		-secondary knapping flake	
	12805	-	1.6	utilized flake	Onondaga		-secondary knapping flake	т—
	12806	-	9.0	utilized flake	Onondaga		-shatter	
	12807	-	1,4	utilized flake	Onondaga		primary thinning flake	
	12808	-	1.	utilized flake	Onondaga		-shatter	
	12809	_	0.3	utilized flake	Onondaga		-secondary knapping flake	
	12810	-	1.1	utilized flake	Onondaga		-shatter	
	12811	-	9.0	utilized flake	Onondaga		-secondary knapping flake	
	12812	-	0.8	utilized flake	Onondaga		-secondary knapping flake	

Stage 4 Mitigation of the Holmedale (AgHb-191) Site, City of Brantford Appendix 4: Flaked Lithics: Catalogue

Provenience	Cat#	Quantity	Weight	Artifact Class	Material	Thermal Alteration	Comments
Feature 69	12813	٢	0.4	utilized flake	Onondaga		-secondary knapping flake
(continued)	12814	-	0.2	scraper	Onondaga	yes	random end and side retouched shatter
	12815	1	0.4	biface	Onondaga		djt-
	12816	1	0.1	utilized flake	Onondaga		-secondary retouch flake
	12817	_	2.1	scraper / utilized flake	Onondaga		-random end -retouched shatter
	12818	-	1.5	biface	Onondaga		-mid-section fragment
	12830	59	33.0	debitage	Onondaga	yes	secondary knapping flake 5 thermally aftered
	12831	υ	9.8	debitage	Onondaga	yes	-primary thinning flake -2 thermally altered
	12832	52	23.3	debitage	51 Onondaga 1 Upper Mercer	yes	shatter 16 thermally altered
	12833	20	1.9	debitage	19 Onondaga 1 Ancaster		secondary retouch flake
	12834	-	1.4	utilized flake	Onondaga	yes	-shatter
	12835	-	1.1	utilized flake	Onondaga		-secondary knapping flake
	12836	-	1.9	utilized flake	Onondaga	yes	-secondary knapping flake
	12837	-	1.3	utilized flake	Onondaga		-secondary knapping flake
	12838	-	1.0	utilized flake	Onondaga		-secondary knapping flake
	12839	-	0.4	utilized flake	Onondaga		-secondary knapping flake
	12840	-	0.5	spokeshave	Onondaga		-secondary knapping flake
 	12841	-	0.1	utilized flake	Onondaga		-shatter

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Provenience	Cat#	Quantity	Weight	Artifact Class	Material	Thermal Alteration	Comments
Feature 69south %	12842	1	0.2	utilized flake	Onondaga	yes	-shatter
(continued)	12843	-	0.2	utilized flake	Onondaga		-secondary knapping flake
	12844	ļ	1.0	drill	Onondaga		-mid-section
	12890	-	1.6	debitage	Onondaga		-primary thinning flake
	12891	ω .	2.9	debitage	Onondaga	yes	-secondary knapping flake 1 thermally altered
	12892	ത	1.3	debitage	Onondaga	yes	-shatter -2 thermally aftered
	12893	5	0.4	debitage	Onondaga	yes	-secondary retouch flake -1 thermally altered
	12894	-	1.5	scraper	Onondaga		-random end -secondary knapping flake
-north 1/2 (level 1)	12860	-	0.3	debitage	Onondaga		-secondary knapping flake
	12861	ω	0.1	debitage	7 Onondaga 1 Ancaster		-secondary retouch flake
	12862	5	0.1	debitage	Onondaga		-shatter
-north ⅓ (level 2)	12870	2	0.4	debitage	Onondaga		-secondary knapping flake
	12871	-	0.1	debitage	Onondaga		-shatter
	12872	-	0.1	debitage	Onondaga		secondary retouch flake
	12875	-	1.2	debitage	Onondaga		-primary thinning flake
	12876	17	7.5	debitage	Onondaga		-secondary knapping flake
	12877	13	4.2	debitage	Onondaga		-shatter
	12878	9	0.5	debitage	Onondaga		secondary retouch flake

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-retouched primary thinning flake -secondary knapping flake--1 thermally altered -secondary knapping flake --5 thermally altered -secondary retouch flake --secondary knapping flake -secondary knapping flake -secondary knapping flake -secondary knapping flake -secondary retouch flake -secondary retouch flake -2 thermally altered -primary thinning flake -primary thinning flake -primary thinning flake -shatter -5 thermally altered -shatter --2 thermally altered Comments -shatter Đ T Thermal Alteration yes 1 yes yes yes yes yes yes Material Onondaga graver / utilized flake Artifact Class l utilized flake utilized flake debitage biface Weight | <u>| 0</u> | 5.2 0.8 7. 13.4 8.2 2.5 8.9 <u>;</u> 0.2 1.2 4.0 7.5 5. 9.0 2.5 0.3 1 Quantity 4 ~ 22 _ 4 5 ო S 22 7 Cat# 12910 12879 12880 12885 12886 12900 12901 12902 12903 12915 12923 12930 12935 12904 12920 12921 12922 -north 1/2 (level 3) Feature 69
-north ½ (level 2)
(continued) Provenience Feature 78 Feature 77

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Stage 4 Mitigation of the Holmedale (AgHb-191) Site, City of Brantford Appendix 4: Flaked Lithics: Catalogue

-random end and side -retouched secondary retouch flake -random end and side -retouched secondary knapping flake -secondary knapping flake -secondary knapping flake -secondary knapping flake -secondary knapping flake -3 thermally altered -secondary retouch flake -secondary retouch flake -secondary retouch flake -secondary retouch flake --3 thermally altered -primary thinning flake -shatter -primary thinning flake -primary thinning flake -shatter -1 thermally altered -shatter -7 thermally aftered Comments Thermal Alteration 1 1 yes yes yes yes yes 1 Material Onondaga Artifact Class utilized flake debitage debitage debitage debitage debitage debitage debitage debitage scraper debitage debitage debitage debitage debitage scraper Weight 0.1 0.4 0.2 1.5 Ξ. 0.1 0.3 0.1 0.5 0.7 2.0 3.7 4.2 2.5 7.0 5. Quantity Ξ. _ N 0 ო 12 9 თ _ Cat# 10332 10330 10340 10331 10342 10350 10341 10351 12940 11050 11052 11053 11055 10352 11051 11054 -south 1/2 (level 1 & 2) -north ¼ (level 2) Feature 79
—north ½ (level 1) Provenience Feature 82a Feature 80 I

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Provenience	Cat #	Quantity	Weight	Artifact Class	Material	Thermal Alteration	Comments
Feature 82b	11070	ဗ	2.0	debitage	Onondaga	yes	-secondary knapping flake -2 thermally altered
	11071	2	1.0	debitage	Onondaga	yes	-shatter 1 thermally altered
	11072	4	1.0	debitage	Onondaga	yes	secondary retouch flake 1 thermally altered
	11073		0.8	utilized flake	Onondaga	yes	secondary knapping flake
Feature 83	12945	1	0.2	debitage	Onondaga		-secondary knapping flake
	12946	1	0.1	debitage	Onondaga		shatter
Feature 84	12955	1	13.5	projectile point	Onondaga		-complete; stemmed
Feature 86	13045	2	0.7	debitage	Onondaga	yes	-shatter 1 thermally altered
Feature 88	13050	-	6.3	debitage	Onondaga	yes	secondary knapping flake
			MISCELL	MISCELLANEOUS PROVENIENCE	VIENCE		
Backdirt	12150	-	2.9	debitage	Onondaga		-secondary knapping flake
	12151	-	2.3	projectile point	Onondaga		-complete; triangular

FLAKED LITHICS: DESCRIPTIVE DATA FOR EXPEDIENT TOOLS4 **APPENDIX 5**

						F	Me	Measurements	ts	
Provenience	Cat #	Weight	Flake Type	of Use ²	Material	Alteration	7	W	Th	Tool Type ³
				RANDOM	RANDOM SCRAPERS					
475-215	12279	1.7	secondary knapping	RL-D	Onondaga	yes				side scraper
480-189	12334	6.0	secondary knapping	RL-D LL-D D-D	Onondaga		18.3	17.5	2.4	end-side scraper
480-209	10453	8.2	primary thinning	RL-D D-D	Ancaster		30.5	39.3	10.2	end scraper
480-209	10454	4.4	secondary knapping	D-D 11-V	Onondaga		36.3	27.0	7.0	side scraper / utilized flake
480-215	12364	7.8	primary thinning	LL-V RL-D	Onondaga		38.3	31.0	2.4	side scraper / utilized flake

? = unknown V = ventral D = dorsal D = distal P = proximal RL = right lateral LL = left lateral ⁴Location of Use-Wear:

B = bifacial

²Tool Types:

Utilized Flake: the working edge is usually straight (but can be convex) and acute-angled in shape, and edge use-damage is most likely along the longer and mostly lateral margins (but can be at an end depending on its function). Flake scars are small and mostly discontinuous: the tool was probably used for cutting or slicing (wood, hide, bone, etc);

working edge is mostly at an end or corner (but occasionally along a lateral margin), and there is no formal shaping of the tool. The Random Scraper: the bit is always thicker (than a cutting edge) and usually convex in shape (although it is sometimes straight), the margins routinely display continuous, steep and deliberate retouch flaking: the tool was probably used for scraping soft items (skins, plants, etc);

Graver: the working edge consists of two converging margins on which one or both show incidental use-wear and/or retouching: it Spokeshave: the working edge is concave and acute-angled in shape, and edge damage mostly consists of small, discontinuous flake scars: the tool was probably used for shaving and shaping a shaft-like object or edge of something soft (i.e. wood); and was probably used for perforating or boring soft material (e.g. wood, leather, etc).

Stage 4 Mitigation of the Holmedale (AgHb-191) Site, City of Brantford Appendix 5 Flaked Lithics: Descriptive Data for Expedient Tools

				Location		Thomas	Me	Measurements	ıts	
Provenience	Cat#	Weight	Flake Type	of Use ²	Material	Alteration		>	Τ̈́	Tool Type ³
480-215	12365	2.3	secondary knapping	RL-D RL-V	Onondaga		26.3	17.3	5.0	double side scraper
480-215	12372	0.5	secondary knapping	RL-D LL-D	Onondaga		17.3	12.8	1.7	side scraper
480-230	10486	0.4	· shatter	0-0	Onondaga		16.3	7.0	2.5	side scraper
485-223	10524	2.0	secondary knapping	G-TT	Ancaster		23.6	24.3	24.7	side scraper
486-222	12024	9.0	shatter	3F-D	Onondaga		18.1	9.8	3.5	side scraper
	12027	1.1	shatter	LL-D RL-D	Onondaga		22.1	17.8	2.5	side scraper / utilized flake
	12028	0.7	shatter	0-0 17-0	Onondaga		12.5	16.4	3.3	end-side scraper
486-224	10566	0.7	shatter	Tr-D	Onondaga		18.0	15.0	2.1	side scraper
488-224	15078	1.2	secondary knapping	LL-D RL-D D-D	Onondaga	yes	21.8	17.5	2.8	double end-side scraper
489-211	15087	2.1	secondary knapping	RL-D D-D LL-D	Onondaga		26.8	22.1	4.1	end-side scraper / utilized flake
489-221	15098	3.6	primary thinning	D-D	Onondaga		24.5	28.0	7.2	end scraper
490-210	10604	1.4	secondary knapping	D-D	Onondaga		18.3	18.0	4.7	end scraper
490-249	15141	2.3	shatter	D-D	Onondaga		22.4	21.8	5.3	end scraper
491-211	15157	3.7	primary thinning	RL-D	Onondaga		27.1	22.8	6.4	side scraper

Stage 4 Mitigation of the Holmedale (AgHb-191) Site, City of Brantford Appendix 5 Flaked Lithics: Descriptive Data for Expedient Tools

						i	W	Measurements	ats	
Provenience	Cat #	Weight	Flake Type	Location of Use ²	Material	I hermal Alteration		Ν	Ţ	Tool Type ³
491-221	10753	11.6	primary reduction	Q-Q	Onondaga		25.4	41.0	38.9	end scraper
	10754	6:0	secondary knapping	RL-D	Onondaga	yes	19.5	15.8	4.7	side scraper
	10755	1.3	shatter	0-0 1.L-D	Onondaga		17.5	20.1	3.1	end-side scraper
	10757	6.0	secondary knapping	RL-D LL-D	Onondaga		16.5	17.4	3.5	double side scraper
491-224	10773	2.1	secondary knapping	0-77 D-D	Onondaga		28.7	25.4	3.2	end scraper / utilized flake
492-220	15162	1.0	secondary knapping	RL-D LL-D	Onondaga		25.0	13.0	2.3	double side scraper
492-221	10797	0.9	shatter	7-77 11-D	Onondaga		19.9	11.5	4.7	spokeshave / side scraper
493-220	15166	1.6	secondary knapping	RL-D	Onondaga		26.1	28.5	4.3	side scraper
494-221	15198	2.6	secondary knapping	RL-D LL-D	Onondaga	yes	17.4	27.6	6.1	double side scraper
494-224	15211	1.5	secondary knapping	RL-D D-D	Onondaga		20.8	15.8	4.2	end-side scraper
494-221	15221	1.4	secondary knapping	TF-D	Onondaga		21.0	15.2	4.2	side scraper
	15223	1.3	shatter	LL-D D-D	Onondaga		21.8	16.3	3.0	end-side scraper

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Ċ			i	Location		Thermal	- 1	Medsulelles		
Provenience	Cat #	Weight	Flake Type	of Use ²	Material	Alteration	-1	≥	Th	Tool Type ³
495-223	15227	1.8	shatter	D-D	Onondaga		22.1	19.2	4.0	end scraper
	15228	2.4	shatter	RL-D D-D LL-D	Onondaga	yes	21.8	29.0	5.0	end-side scraper / utilized flake
495-224	12054	1.5	secondary knapping	LL-D	Onondaga		14.5	28.2	0.9	side scraper
496-220	15251	0.9	secondary knapping	RL-D LL-D	Onondaga		29.7	12.6	2.4	double side scraper
	15252	1.3	shatter	D-D D-D	Onondaga		14.3	14.2	5.2	end-side scraper
496-224	10886	0.3	shatter	TF-D	Onondaga		10.6	14.3	2.4	side scraper
497-221	15271	2.6	secondary knapping	Q-Q	Onondaga		28.3	22.2	4.6	end scraper
497-222	12163	2.1	shatter	RL-D	Onondaga	yes	22.6	17.3	6.3	side scraper
497-223	15281	6.0	shatter	RL-D	Onondaga		31.5	26.7	6.5	side scraper
497-224	15287	2.0	secondary knapping	RL-D D-D	Onondaga		19.1	22.2	5.2	end-side scraper
500-220	10986	0.1	shatter	JD	Onondaga		9.7	5.5	3.3	side scraper
Feature 1 -north ½	12484	2.3	secondary knapping	D-D RL-D	Onondaga		23.1	22.7	4.3	end scraper / utilized flake
Feature 7a -se quad	11035	9.1	shatter	RL-D	Upper Mercer	yes	19.4	27.0	4.0	side scraper
Feature 7c -north ½ (surface)	10051	6.0	shatter	%-D	Onondaga		16.8	13.3	4.5	side scraper

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				1000		Ē	Me	Measurements	ıts	
Provenience	Cat#	Weight	Flake Type	of Use ²	Material	Inermal	Ţ	Α	Тħ	Tool Type ³
Feature 8	10254	1.1	shatter	RL-D	Onondaga		14.6	16.3	4.3	side scraper
	10259	1.0	shatter — — — — —	D-D	Onondaga		14.5	13.3	5.4	end scraper / utilized flake
-nw quad (lvl 2)	10148	3.0	primary thinning	LL-D	Onondaga		26.4	23.0	0.7	side scraper
	10152	0.3	shatter	RL-D D-D	Onondaga		12.5	14.2	2.7	end-side scraper
-ne quad (Ivl 1)	10067	9.0	secondary knapping	O-O	Onondaga		16.9	13.6	2.6	end scraper
Feature 23	12620	8.0	shatter	D-D	Onondaga		14.4	15.7	3.5	end-side scraper
Feature 30b	12672	3.8	shatter	RL-D D-D	Onondaga		19.5	33.2	5.8	end-side scraper
Feature 51	12134	8.0	secondary knapping	RL-D LL-D D-D P-D	Onondaga		23.8	1.1	2.6	double end-side scraper
Feature 52	12113	9.0	secondary knapping	רר-ם רר-א	Onondaga		22.8	12.5	12.8	double side scraper
Feature 53	12700	6.0	shatter	۸-d	Onondaga	yes	10.5	12.3	4.8	side scraper

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							Me	Measurements	ts	
Provenience	Cat#	Weight	Flake Type	Location of Use ²	Material	Thermal Alteration		W	T.	Tool Type ³
Feature 68	12742	1.4	secondary knapping	TI-D	Onondaga		23.3	13.4	4.8	side scraper
10111 / 2	12744	9.0	shatter	RL-D D-D	Onondaga		26.7	24.0	6.2	end-side scraper
	12745	0.7	secondary knapping	0-0 11-D	Onondaga		22.6	10.7	2.8	end-side scraper
	12747	1.9	shatter	3F-D	Onondaga	yes	21.4	15.3	6.7	end scraper
	12748	9.0	secondary knapping	D-D	Onondaga		26.8	9.4	2.2	end scraper
	12753	3.8	primary thinning	IT-D	Onondaga		31.0	26.5	6.9	side scraper
 	12755	8:1	secondary knapping	 0-0 	Onondaga		22.5	20.0	6.0	end scraper
Feature 68 -south %	12789	2.0	secondary knapping	RL-D LL-D	Onondaga		31.2	15.1	4.1	double side scraper
	12814	0.2	shatter	RL-D D-D	Onondaga	yes	7.9	13.2	2.1	end-side scraper
	12817	2.1	shatter	RL-D D-D LL-D	Onondaga		28.6	22.3	3.3	end-side scraper / utilized flake
	12894	1.5	secondary knapping	Q-Q	Onondaga		24.5	23.4	4.4	end scraper
Feature 79 -north 1⁄2 (level 2)	10342	0.3	secondary retouch	0-0 0-D	Onondaga		15.3	9.0	1.5	end-side scraper

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							Me	Measurements	ıts	
Provenience	Cat#	Weight	Flake Type	Location of Use ²	Material	Thermal Alteration	_	×	Th	Tool Type ³
Feature 82a	11055	1.2	secondary knapping	N-TT	Onondaga	yes	16.1	17.9	6.2	side scraper
				GR/	GRAVERS					
475-215	12274	3.4	secondary knapping	tip D-D	Onondaga		19.0	33.9	6.9	graver
479-274	12274	3.4	secondary knapping	tip D-D	Onondaga		19.0	33.8	0.7	graver / utilized flake
480-214	12349	2.2	primary thinning	típ	Onondaga		25.2	19.4	5.8	graver
494-221	15196	2.0	secondary knapping	tip RL-D	Onondaga		19.9	16.3	4.6	graver / utilized flake
494-224	15213	1.1	secondary knapping	tip	Onondaga		22.4	21.2	3.2	graver
480-235 surface	12460	5.1	secondary knapping	tip D-V	Onondaga		42.7	14.3	3.6	graver / utilized flake
490-220 -post #20	13011	1.3	secondary knapping	tip	Onondaga		19.7	19.3	4.5	graver
Feature 8 -ne quad (level 2)	10085	5.7	primary thinning	tip RL-D	Onondaga		44.5	22.7	10.1	graver / utilized flake
	10094	0.7	secondary knapping	tip LL-D	Onondaga	yes	20.8	14.6	3.3	graver / utilized flake
Feature 69 -north ½ (level 2)	12879	5.2	primary thinning	tip RL-D	Onondaga		45.3	20.9	7.7	graver / utilized flake

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				Location		- - - -	Ĭ	Measurements	ıts	
Provenience	Cat #	Weight	Flake Type	of Use ²	Material	Alteration		8	тh	Tool Type ³
				SPOKE	SPOKESHAVES					
475-190	12203	5.5	secondary knapping	TID	Onondaga		29.5	31.9	7.5	spokeshave
475-214	12264	0.8	secondary knapping	RL-D LL-D	Onondaga		14.3	28.0	3.5	spokeshave/ utilized flake
480-159	10423	0.9	shatter	RL-D	Onondaga		17.3	18.0	3.5	spokeshave
480-209	10459	9.0	secondary knapping	RL-D LL-D	Onondaga		17.5	16.2	3.2	utilized flake / spokeshave
480-216	12395	9.0	secondary knapping	RL-V	Onondaga		13.8	15.0	3.5	spokeshave
485-222	12474	0.8	secondary knapping	LL-D RL-D	Onondaga		14.0	14.3	3.5	spokeshave / utilized flake
486-224	10565	1.0	secondary knapping	Tr-D	Onondaga		17.2	19.0	2.8	spokeshave
490-190	10357	0.7	shatter	RL-D LL-D	Onondaga	yes	15.6	21.2	3.3	spokeshave / utilized flake
490-220	10648	0.2	shatter	רר-ם	Onondaga		12.0	9.6	6 .	spokeshave
491-210	10732	3.3	primary thinning	RL-D RL-D	Onondaga	yes	26.5	21.7	11.4	spokeshave / utilized flake
500-210	10973	3.2	secondary knapping	11-D D-D LL-V	Onondaga		20.1	27.8	6.1	spokeshave / utilized flake
Feature 7a _north 1⁄2	12095	0.9	secondary knapping	Q-Q	Onondaga		11.1	20.2	4.2	spokeshave
51 Feature	12131	0.3	secondary retouch	IL-D	Onondaga		12.0	12.5	1.8	spokeshave

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			AND ADDRESS OF THE PARTY OF THE							
				Location		Thomas	Me	Measurements	ıts	
Provenience	Cat#	Weight	Flake Type	of Use ²	Material	Alteration	٦	8	Тh	Tool Type ³
Feature 68	12739	2.3	secondary knapping	RL-D	Onondaga		33.7	20.5	4.5	spokeshave
	12754	2.3	shatter	RL-D LL-D	Onondaga		20.7	23.1	4.9	double spokeshave
-south 1/2	12788	0.2	secondary knapping	7L-D	Onondaga		16.6	7.4	3.5	spokeshave
	12840	0.5	shatter	?L-V	Onondaga	yes	21.7	9.8	7.7	spokeshave
				UTILIZE	UTILIZED FLAKES					
475-190	12204	0.5	secondary knapping	RL-D	Onondaga		16.9	12.6	2.9	side utilized flake
475-209	10373	1.7	primary thinning	TF-D	Onondaga		13.6	17.8	5.5	end utilized flake
	10374	1.8	shatter	RL-D D-D	Onondaga		16.1	17.3	6.5	side-end utilized flake
	10375	1.0	shatter	RL-V	Onondaga		17.1	14.1	3.1	side utilized flake
475-224	12218	0.5	secondary knapping	RL-D	Onondaga		12.0	14.8	2.4	side utilized flake
478-214	12244	8.9	primary thinning	RL-D LL-V	Onondaga		35.0	34.0	8.2	side utilized flake
	12245	0.7	secondary knapping	RL-D	Onondaga		19.2	14.5	2.2	side utilized flake
478-215	10384	2.2	secondary knapping	O-O	Onondaga		27.6	22.5	5.7	end utilized flake
	10385	0.8	secondary knapping	RL-D	Onondaga	yes	15.7	16.6	2.5	side utilized flake
	10386	0.2	secondary retouch	LL-D	Onondaga		10.1	11.0	2.1	side utilized flake

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							Me	Measurements	fts	
Provenience	Cat#	Weight	Flake Type	Location of Use ²	Material	Thermal Alteration	7	3	£	Tool Type ³
478-216	12233	6.0	secondary knapping	RL-D	Onondaga		21.5	18.6	2.6	side utilized flake
	12234	6:0	secondary knapping	RL-D	Onondaga	yes	14.5	11.6	5.7	side utilized flake
479-165	12224	1.1	secondary knapping	CD	Onondaga	yes	20.0	21.0	2.8	side utilized flake
479-199	10406	4.9	primary thinning	RL-D LL-D	Onondaga		22.9	27.8	6.8	side utilized flake
475-215	12275	2.5	secondary knapping	TI-D	Onondaga		30.3	18.5	5.0	side utilized flake
	12276	1.6	shatter	?L-?	Onondaga	yes	21.5	13.7	8.7	side utilized flake
	12277	0.8	secondary knapping	RL-D	Onondaga		15.4	15.5	5.0	side utilized flake
	12278	0.2	shatter	LL-V	Onondaga		8.9	12.3	1.8	side utilized flake
479-216	12294	0.5	secondary knapping	D-D	Onondaga	yes	9.6	16.4	3.7	end utilized flake
480-185	10433	2.1	secondary knapping	LL-V	Onondaga		28.3	20.2	3.9	side utilized flake
	10434	6.0	secondary knapping	0-0	Onondaga		14.4	22.8	4.5	end utilized flake
	10435	9.0	secondary knapping	LL-V	Onondaga		20.6	12.8	1.8	side utilized flake
	10436	0.2	secondary retouch	LL-V	Onondaga		11.3	2.6	2.6	side utilized flake
480-209	10455	1.5	secondary knapping	D-D	Onondaga		20.1	20.7	4.6	end utilized flake
	10456	1.8	primary thinning	D-V	Onondaga		21.0	19.0	6.9	end utilized flake
	10457	1.4	secondary knapping	RL-D	Onondaga		35.0	12.8	3.4	side utilized flake
	10458	0.7	secondary knapping	RL-V	Onondaga	yes	18.1	16.8	3.4	side utilized flake

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							Me	Measurements	ıts	
Provenience	Cat #	Weight	Flake Type	Location of Use ²	Material	Thermal Alteration		8	Ę	Tool Type ³
480-214	12350	0.4	secondary knapping	RL-D	Onondaga		10.1	13.8	5.1	side utilized flake
	12351	9.0	secondary knapping	TI-D	Onondaga		16.8	16.3	3.0	side utilized flake
480-215	12366	2.5	secondary knapping	Q-Q	Onondaga		27.2	26.7	4.6	end utilized flake
	12367	9′0	secondary knapping	Q-Q	Onondaga		17.0	21.3	2.0	end utilized flake
	12369	0.5	secondary knapping	RL-V	Onondaga		11.8	15.7	2.5	side utilized flake
	12370	0.7	secondary knapping	N-TI	Onondaga		14.0	17.5	3.3	side utilized flake
	12371	0.2	shatter	G-7¿	Onondaga		9.6	9.8	3.3	side utilized flake
480-216	12393	1.6	shatter	TF-D	Onondaga		18.5	20.7	8.4	side utilized flake
	12394	1.5	secondary knapping	RL-D	Onondaga		22.5	20.7	4.9	side utilized flake
	12397	0.4	shatter	Q-Q	Onondaga	yes	7.0	16.1	3.4	end utilized flake
480-220	12416	0.2	shatter	D-D LL-V	Onondaga	yes	6.8	15.6	1.5	side-end utilized flake
480-225	12439	5.2	primary reduction	N-Q	Ancaster		20.4	28.7	8.9	end utilized flake
	12440	9.0	secondary knapping	TI-D	Onondaga		20.3	12.7	2.6	side utilized flake
	12441	0.4	shatter	D-D LL-D	Onondaga	yes	12.5	11.0	2.3	side-end utilized flake
	12442	0.4	secondary knapping	RL-D	Onondaga		9.8	10.7	3.6	side utilized flake

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							Me	Measurements	ıts	
Provenience	Cat#	Weight	Flake Type	Location of Use ²	Material	I hermal Alteration		>	柜	Tool Type ³
480-230	10483	1.3	secondary knapping	D-V D-V	Onondaga		25.1	19.4	3.2	side-end utilized flake
	10484	0.3	secondary knapping	Q-Q	Onondaga		14.7	15.0	1.8	end utilized flake
	10485	9.0	secondary knapping	RL-D	Onondaga		17.2	11.8	2.7	side utilized flake
485-221	10504	0.8	secondary knapping	N-O	Onondaga	yes	15.2	19.5	3.6	end utilized flake
	10505	0.7	shatter	Tr-D	Onondaga		16.8	15.5	2.6	side utilized flake
	10506	6.4	primary thinning	RL-D LL-D	Onondaga		29.2	23.6	9.3	side-end utilized flake
485-222	12475	0.3	secondary knapping	rv	Onondaga	yes	14.3	9.2	2.5	side utilized flake
485-224	10544	1.2	secondary knapping	RL-V RL-D LL-D	Onondaga		17.5	15.8	4.3	side utilized flake
	10545	0.7	secondary knapping	Q-Q	Onondaga		17.2	14.2	2.3	end utilized flake
	10546	0.5	secondary knapping	RL-D	Onondaga		15.2	13.9	2.7	side utilized flake
486-222	12025	0.2	shatter	RL-V	Onondaga		9.5	8.3	2.2	side utilized flake
489-174	10581	0.8	shatter	RL-D	Onondaga		14.3	14.5	3.8	side utilized flake
490-210	10603	16.0	secondary knapping	RL-D	Onondaga		53.8	49.8	0.7	side utilized flake
490-215	10623	1.7	secondary knapping	RL-V	Ancaster		24.3	18.2	5.0	side utilized flake
	10624	0.2	shatter	0-0	Onondaga		10.5	13.3	1.8	end utilized flake

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Provenience	Cat #	Weight	Flake Type	Location of Use ²	Material	Thermal Alteration		M	3 ←	Tool Type ³
490-220	10643	3.6	primary thinning	RL-D LL-V	Onondaga		34.9	18.4	7.4	side utilized flake
	10644	3.2	secondary knapping	Q-Q	Onondaga		20.6	22.4	7.1	end utilized flake
	10645	0.7	secondary knapping	RL-D	Onondaga		17.6	15.5	2.7	side utilized flake
	10646	9.0	secondary knapping	LL-V	Onondaga		18.8	13.3	3.5	side utilized flake
	10647	0.4	secondary knapping	RL-V	Upper Mercer		13.2	12.5	2.8	side utilized flake
490-221	10677	2.3	primary thinning	Q-Q	Onondaga		17.1	31.1	5.6	end utilized flake
	10678	1.2	secondary knapping	G-TT	Onondaga		27.1	15.5	2.9	side utilized flake
	10679	1.1	shatter (blade)	RL-D	Onondaga		28.8	9.5	3.7	side utilized flake
490-229	10693	1.1	secondary knapping	0-77 0-0	Onondaga		17.7	15.0	3.9	side-end utilized flake
	10694	0.7	secondary knapping	RL-D LL-D	Onondaga		22.1	14.8	2.0	side utilized flake
491-210	10714	1.6	shatter	3-D	Onondaga		14.7	23.3	4.5	side utilized flake
	10715	0.7	secondary knapping	RL-V	Onondaga	yes	15.7	13.8	2.5	side utilized flake
	10716	0.5	secondary knapping	RL-D LL-D	Onondaga	yes	13.8	12.0	3.0	side utilized flake
	10733	2.8	shatter	3F-3	Onondaga		23.2	15.9	8.7	side utilized flake

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							Me	Measurements	ıts	
Provenience	Cat#	Weight	Flake Type	Location of Use ²	Material	Thermal Alteration		Μ	Th	Tool Type ³
492-221	10794	1.0	secondary knapping	RL-D LL-D D-D	Onondaga		20.0	18.7	3.0	side-end utilized flake
	10795	1.1	secondary knapping	Q-Q	Onondaga		14.7	20.4	5.5	end utilized flake
	10796	1.2	secondary knapping	Tr-D	Onondaga	yes	23.5	13.5	4.6	side utilized flake
492-223	10813	0.5	secondary knapping	O-O	Onondaga		20.7	11.5	3.4	end utilized flake
	10814	0.5	secondary knapping	RL-D	Onondaga		14.7	15.9	4.0	side utilized flake
	10815	1.3	secondary knapping	RL-D D-D	Onondaga		21.7	18.5	4.1	side-end utilized flake
	10816	0.7	shatter	5-7¿	Onondaga		19.7	9.3	5.0	side utilized flake
495-222	10853	6.0	shatter	3F-D	Onondaga	yes	23.7	16.4	2.8	side utilized flake
	10854	0.1	shatter	CL-D	Onondaga		9.1	11.3	1.7	side utilized flake
495-224	12055	0.4	secondary knapping	O-O	Onondaga		10.8	17.7	2.2	end utilized flake
496-222	10864	0.8	secondary knapping	Q-Q	Onondaga		19.5	14.8	3.2	end utilized flake
	10865	0.8	secondary knapping	O-O	Onondaga		21.8	17.7	2.7	end utilized flake
496-224	10884	3.5	primary thinning	0-0	Onondaga		18.6	22.4	10.3	end utilized flake
	10885	0.8	secondary knapping	RL-D D-D	Onondaga		20.5	16.5	2.7	side-end utilized flake
497-223	10902	1.1	secondary knapping	RL-D D-D	Onondaga		20.4	15.0	4.7	side-end utilized flake

Stage 4 Mitigation of the Holmedale (AgHb-191) Site, City of Brantford Appendix 5 Flaked Lithics: Descriptive Data for Expedient Tools

							Me	Measurements	ıts	
Provenience	Cat #	Weight	Flake Type	Location of Use ²	Material	Thermal Alteration		Μ	Тh	Tool Type ³
497-224	10913	0.8	secondary knapping	RL-D LL-D	Onondaga		24.6	13.3	1.8	side utilized flake
	10914	0.5	shatter	٦-٦٥	Onondaga	yes	13.2	13.1	3.2	side utilized flake
500-229	11002	1.2	secondary knapping	RL-D	Onondaga		24.9	19.2	3.1	side utilized flake
480-200 post #9	12980	0.7	secondary knapping	RL-D	Onondaga		24.7	12.8	2.0	side utilized flake
Feature 1-north 1/2	12485	6.0	secondary knapping	Q-Q	Onondaga		20.1	21.2	2.9	end utilized flake
	12486	0.4	secondary knapping	CT-D	Onondaga	yes	11.5	11.5	2.5	side utilized flake
 	12487	1.8	core trimming	RL-V	Onondaga		28.2	23.0	2.8	side utilized flake
-north ½ (level 3)	12497	0.8	shatter	RL-V	Onondaga	yes	15.5	16.7	3.8	side utilized flake
Feature 3 -ne quad	12505	2.4	shatter	LL-D	Onondaga		25.9	18.0	6.1	side utilized flake
Feature 7a —general — — —	10143	0.8	secondary knapping	RL-D	Onondaga		22.9	14.0	4.0	side utilized flake
-north ½	12094	0.2	shatter	RL-D	Onondaga		7.7	10.7	3.0	side utilized flake
	12096	0.6	secondary knapping		Onondaga	 	25.8	17.5	3.5	side utilized flake
-se dnad	11034	0.7	secondary knapping	D-D	Onondaga		17.6	18.8	3.2	end utilized flake
Feature 7b -north ½	10033	1.4	secondary knapping	rr-v	Upper Mercer		28.3	20.0	4.1	side utilized flake

Stage 4 Mitigation of the Holmedale (AgHb-191) Site, City of Brantford Appendix 5 Flaked Lithics: Descriptive Data for Expedient Tools

							Me	Measurements	ts	
Provenience	Cat#	Weight	Flake Type	Location of Use ²	Material	Thermal Alteration	٦	Μ	Ŧ	Tool Type ³
Feature 8surface	10313	0.1	shatter	rv	Onondaga		7.3	9.4	1.9	side utilized flake
-sw quad	10255	0.5	secondary knapping	Q-Q	 Onondaga		13.3	14.2	3.7	end utilized flake
	10262	0.3	secondary knapping	 	Onondaga		20.5	12.6	2.0	side utilized flake
-nw quad (level 1)	10123	1 4.1	primary thinning	RL-D	Onondaga		30.2	24.4	7.2	side utilized flake
-nw quad (level 2)	10145	6.9	secondary knapping	RL-D	Onondaga		41.5	31.5	6.5	side utilized flake
	10146	2.5	secondary knapping	D-D	Onondaga		24.4	24.6	5.3	end utilized flake
	10147	0.8	secondary knapping	RL-D	Onondaga		27.0	19.4	3.7	side utilized flake
	10149	1.2	secondary knapping	RL-D	Onondaga	-	23.3	16.9	3.8	side utilized flake
	10151	2.0	secondary knapping	Q-Q	Onondaga		28.4	19.0	4.5	end utilized flake
	10153	0.5	secondary knapping	rN	Onondaga		16.2	15.0	2.8	side utilized flake
	10155	0.5	shatter	 - - -	Onondaga		11.7	16.6	3.3	side utilized flake
-ne quad (level 1)	10064	4.5	primary thinning	D-D	Onondaga		23.3	27.5	9.6	end utilized flake
	10065	6.0	shatter	RL-D	Onondaga		13.8	15.5	2.9	side utilized flake
	10066	0.4	secondary knapping	G-TT	Onondaga		16.2	14.7	1.5	side utilized flake

Stage 4 Mitigation of the Holmedale (AgHb-191) Site, City of Brantford Appendix 5 Flaked Lithics: Descriptive Data for Expedient Tools

							Me	Measurements	र्झ	
Provenience	Cat#	Weight	Flake Type	Location of Use ²	Material	Thermal Alteration	_	×	£	Tool Type ³
Feature 8	10087	0.7	shatter	O-O	Onondaga		19.6	10.8	2.8	end utilized flake
-ne duad (level 2)	10088	6.0	secondary knapping	RL-V	Onondaga		12.5	15.2	4.3	side utilized flake
	10089	9.0	secondary knapping	٦٠٦٦	Onondaga		25.9	10.9	25	side utilized flake
	10090	0.7	secondary knapping	LL-D RL-V	Onondaga		18.6	12.7	2.2	side utilized flake
	10091	0.2	shatter	۲-٦ <i>٠</i>	Onondaga	yes	18.4	7.9	1.7	side utilized flake
	12534	0.8	primary thinning	RL-D	Onondaga		21.1	19.7	4.2	side utilized flake
 	12535	0.4	shatter	 - 	Onondaga		13.5	12.5	2.9	side utilized flake
-se quad	10185	1.4	secondary knapping	TI-D	Onondaga		27.0	20.5	2.6	side utilized flake
	10186	0.7	shatter	∕-7ċ	Onondaga	yes	21.2	14.9	3.1	side utilized flake
	10187	0.8	secondary knapping	LL-V D-V	Onondaga	yes	17.9	16.3	2.8	side-end utilized flake
	10188	1.7	secondary knapping	RL-D	Onondaga	yes	25.8	21.6	3.8	side utilized flake
	10189	1.2	shatter	RL-D	Onondaga		18.3	17.7	4.3	side utilized flake
	10190	2.3	secondary knapping	RL-D LL-D D-D	Onondaga		27.3	22.7	3.8	side-end utilized flake
	10193	1.2	shatter	RL-D	Onondaga		18.7	19.4	3.2	side utilized flake
	10196	7.6	primary thinning	Q-Q	Onondaga		25.0	41.5	9.7	end utilized flake
Feature 13	12598	9.0	shatter	rr-v	Onondaga		17.6	16.4	1.8	side utilized flake

Stage 4 Mitigation of the Holmedale (AgHb-191) Site, City of Brantford Appendix 5 Flaked Lithics: Descriptive Data for Expedient Tools

			2019000		F	Me	Measurements	ıts		
Cat#	Weight	Flake Type	Location of Use ²	Material	I nermal Alteration		×	Тh	Tool Type ³	
12124	2.3	secondary knapping	0-0 LL-D	Onondaga		35.8	17.1	5.0	side-end utilized flake	
 12125	9.0	secondary knapping	RL-D LL-D	Onondaga	yes	15.5	17.5	3.3	side utilized flake	
 12126	0.5	secondary knapping	RL-D LL-D	Onondaga		22.3	10.8	2.3	side utilized flake	
 12127	0.7	secondary knapping	RL-D	Onondaga		16.5	17.5	3.8	side utilized flake	
12129	0.8	secondary knapping	RL-V RL-D	Onondaga		14.4	16.4	4.5	side utilized flake	
 12130	0.3	shatter	C-T	Onondaga		12.7	12.7	2.7	side utilized flake	
 12132	0.1	secondary retouch	TF-D	Onondaga		8.5	8.6	1.9	side utilized flake	
12133	0.1	shatter	RL-D LL-D	Onondaga		11.6	6.8	1.9	side utilized flake	
 12114	0.4	shatter	LL-V	Onondaga	yes	14.7	6.6	3.0	side utilized flake	
 12115	1.1	secondary knapping	RL-D LL-D	Onondaga	yes	22.7	13.8	4.7	side utilized flake	
 12699	3.0	secondary knapping	RL-D	Onondaga	yes	31.2	20.2	5.2	side utilized flake	
12701	0.3	shatter	3F-D	Onondaga		17.7	9.0	2.2	side utilized flake	

Stage 4 Mitigation of the Holmedale (AgHb-191) Site, City of Brantford Appendix 5 Flaked Lithics: Descriptive Data for Expedient Tools

							N C	Mooringmonth	ī	
Drovenience	‡ †	Moight		Location		Thermal	-	asancinici		:
	# JBO	A CIGINE	adkı ayını	aso io	Material	Aiteration	7	A	=	Tool Type
Feature 68	12734	2.9	secondary knapping	RL-V	Onondaga		26.1	25.0	1.4	side utilized flake
2/ 110011 /2	12735	3.3	secondary knapping	Q-Q	Onondaga		29.0	25.7	5.5	end utilized flake
	12736	4.4	primary thinning	RL-D	Onondaga	yes	31.3	27.0	6.5	side utilized flake
	12737	1.6	secondary knapping	RL-D	Onondaga		24.6	21.0	4.0	side utilized flake
	12740	1.5	secondary knapping	Q-Q	Onondaga		24.1	19.1	2.9	end utilized flake
	12743	2.0	secondary knapping	N-O	Onondaga		20.5	21.1	4.5	end utilized flake
	12749	0.1	shatter	3F-D	Onondaga		13.6	7.2	1.5	side utilized flake
	12750	0.1	shatter	3L-D	Onondaga		13.5	5.9	1.5	side utilized flake
	12776	1.0	secondary knapping	LL-V	Onondaga		22.6	17.2	2.6	side utilized flake
Feature 69	12784	2.7	shatter	RL-V	Onondaga		21.9	22.4	5.0	side utilized flake
-south %	12785	2.4	primary thinning	Q-Q	Onondaga		34.5	16.1	5.0	end utilized flake
	12787	3.4	shatter	D-D	Onondaga		22.2	28.5	6.2	end utilized flake
	12804	2.2	secondary knapping	RL-D	Onondaga		23.1	22.3	5.8	side utilized flake
	12805	1.6	secondary knapping	RL-D	Onondaga		22.3	22.7	4.5	side utilized flake
	12806	0.5	shatter	RL-V	Onondaga		15.4	17.5	1.3	side utilized flake
	12807	1.4	primary thinning	C-T-D	Onondaga		17.5	22.7	4.9	side utilized flake
	12808	1.1	shatter	LL-V	Onondaga		24.5	13.1	3.6	side utilized flake

Stage 4 Mitigation of the Holmedale (AgHb-191) Site, City of Brantford Appendix 5 Flaked Lithics: Descriptive Data for Expedient Tools

				Location			Me	Measurements	ıts	
Provenience	Cat#	Weight	Flake Type	of Use ²	Material	Alteration	ر	8	Тh	Tool Type ³
Feature 69	12809	0.3	secondary knapping	0-0	Onondaga		11.5	12.4	2.2	end utilized flake
(continued)	12810	1.1	shatter	5F-5	Onondaga		20.5	9.3	7.2	side utilized flake
	12811	9.0	secondary knapping	rr-D	Onondaga		22.0	11.8	3.5	side utilized flake
	12812	0.8	secondary knapping	D-D	Onondaga		18.6	20.0	2.7	end utilized flake
	12813	0.4	secondary knapping	O-O	Onondaga		17.4	9.3	1.4	end utilized flake
	12816	0.1	secondary retouch	O-O	Onondaga		7.3	10.5	1.9	end utilized flake
	12834	1.4	shatter	Q-Q	Onondaga		15.7	21.6	4.2	end utilized flake
	12835	1.1	secondary knapping	rr-v	Onondaga		21.4	17.3	3.0	side utilized flake
	12836	1.9	secondary knapping	RL-D	Onondaga	yes	22.8	19.5	3.5	side utilized flake
	12837	1.3	secondary knapping	Q-Q	Onondaga		19.9	22.0	4.1	end utilized flake
	12838	1.0	secondary knapping	RL-D	Onondaga		25.0	23.7	2.1	side utilized flake
	12839	0.4	secondary knapping	RL-D	Onondaga		16.3	10.2	2.4	side utilized flake
	12841	0.1	shatter	RL-V	Onondaga		12.3	12.0	2.3	side utilized flake
	12842	0.2	shatter	CL-D	Onondaga	yes	11.7	11.6	2.3	side utilized flake
	12843	0.2	secondary knapping	 - - -	Onondaga		16.2	6.9	2.4	side utilized flake
-north 1/2 (level 3)	12904	1.1	secondary knapping	CD	Onondaga		21.3	15.6	3.5	side utilized flake
Feature 77	12930	2.5	primary thinning	LL-D D-D	Onondaga		15.3	21.9	7.3	side-end utilized flake

Stage 4 Mitigation of the Holmedale (AgHb-191) Site, City of Brantford Appendix 5 Flaked Lithics: Descriptive Data for Expedient Tools

				1		F	Me	Measurements	ıts	
Provenience	Cat #	Weight	Flake Type	Location of Use ²	Material	I hermal Alteration	7	Μ	Ę	Tool Type ³
Feature 82a	11054	2.0	primary thinning	>-0	Onondaga		19.9	19.9 34.9 11.4	11,4	end utilized flake
Feature 82b	11073	9.0	secondary knapping	a-TT	Onondaga	ves	18.2 15.6	15.6	3.3	side utilized flake

APPENDIX 6.1 Holmedale Site (AgHb-191): Plant Remains -- Sample Components

Total	4.43	4.13	12.76	6.46	27.78	50.81	0.01	0.43	2.01	2.59	5.46	10.06	1.02	3.15	4.7	2.41	0.13	6.86	18.27	99:0	0.26	40.41	1.49	0.13	3.81	11.28	1.28
Total	413	314	617	306	1650	1575	-	72	207	25	406	797	2	523	372	179	30	381	1255	103	38	696	126	6 0	286	577	150
Material Wt. (G)	0.01	0.09	0.2	10:0	0.31		0.01	0.01		10.0	10.0	0.02	0.01	0.04	0.18	0.05	0.01	0.01	0.3	0.01		0.01	0.01	0.01	0.01	90.0	0.07
Unident.	-	32	æ	9	92		-	4		5	10	15	6	ω	10	-	o.	2	83	9		7	-	2	-	2	5
Meat Wt. (G)					0							.0							°								
N _{ct}					0							0							0								
Nut Wf. (G)					0							0		0.01		0.01		1.0	0.12				0.01			0.01	0.01
Unident.					o							0		4		2		ħ	5				4			8	-
Shell Wt. (G)				0.01	0.01				0.01	0.01		0.02							0						0.01		
Hickory N				e.	6				e e	4		7							0						1		
Shell Wt. (G)	0.01	0.01	0.01		0.03							0	0.01					0.01	0.02								0.01
Acom	-	-	6		11							0	-					5	9								9
Shell Wt. (G)	0.18	0.01		0.14	0.33				0.01	0.01	3.78	3.8	0.01	0.01	60:0			0.18	0.29			0.01	70:0			0.01	0.01
Walnut N	8	-		10	17				2	2	267	271	-	-	5			7	14			-	1			1	4
Cupules Wt. (G)	0.01			0.01	0.02							0	0.01	0.14	90:0	0.11		0.04	0.36						0.01	0.01	
Maize	8			5	8							0	-	8	80	3		4	22						1	2	
Kemals Wt.(G)	1.38	0.3	0.85	0.07	2.6				0.05	0.01	0.12	0.18	,	0.01	0.17		0.01	0.07	0.26	0.01		0.1			0.01	0.19	90:0
Maize	120	33	2	7	224				8	5	10	23		4	6		+	. 5	19	3		9			5	21	6
Charcoal Wt. (G)	2.84	3.72	11.7	6.22	24.48	50.81			1.94	2.55	1.55	6.04	0.98	2.94	4.2	2.24	0.11	6.45	16.92	0.64	0.26	13.92	0.12	0.12	3.77	11.01	1.12
Wood N	282	247	488	278	1295	1575	harcoal	0.42	26	138	119	451	58	506	340	173	20	348	1145	8	38	096	в	9	278	545	125
Volume (L)	2	2	ဗ	5	15	4	no wood charcoal	89	4	3	က	10	4	4	3	5	2	4	24	3	. 4	7	3	. 60	5	3	80
Level	₹	3	5		Sum	ŧ	б	ေ				uns	2	2	2	2	2	7	Eins								
Feature	-						4	S	¥	87	Б		•							11	18	30	ĸ	4	51	52	83

Stage 4 Mitigation of the Homedale (AgHb-191) Site, City of Brantford Appendix 6: Plant Remains

		T	Т	T	T	T	1	Т	T	Τ-	Т	_	T	I	1	1	Τ	Ι
Total	0.57	3.06	2.35	5.41	48.42	31.54	37.26	48.42	119.32	8.56	1.55	3.85	1.08	٥	۰	0	280.65	100.00
Total	55	329	158	487	865	3922	1590	865	6536	312	109	595	105	o	o	0	15,776	100.00
Material Wf (G)	0.15	0.07	0.01	90.0	0.01	0.01	10.0	0.01	10.0	0.01	0.01	0.35					1.46	0.52
Unidert.	8	10	5	15	5	11	4	5	23	1	6	73					293	1.86
Meat Wt. (G)				0	0.22			0.22	0.22		0.21						0.43	0.15
N Z				0	6			3	3		2						5	0.03
Net Wt. (G)			0.01	0.01	0.01	0.01	0.01	0.01	0.03								0.19	0.07
Unident.			1	1	12	1	4	12	17								45	0.29
Shelf Wt. (G)				0	0.01			0.01	0.01								90.0	0.02
Hickory				0	3			ε	ε								14	60.0
Shell Wt. (G)	90:0			0			0.01		0.18		0.02	0.01					0.31	0.11
Acom N	7			0.			2		4		15	3					52	0.33
Shelf Wt. (G)		0.01	0.44	0.45	1.38		1.38	1.38	3.44		0.41		0.01				8.83	3.15
Walnut N		-	80	7	88		84	28	133		6		2				460	2.92
Cupules Wt. (G)		0.01	0.22	0.23	0.12	. 0.01	0.09	0.12	0.23	0.09	0.01	0.01					0.97	0.35
Maize N		п	2	2	13	7	8	6	\$	12	2	-					109	0.69
Kemals Wt.(G)	0.01	0.16	90:0	0.24	1.22	0.01	2.35	1.22	3.84	0.17	9:04		0.01				7.72	2.75
Maize N	7	80	12	20	123	80	205	123	352	15	9		5				715	4.53
Charcoal Wt. (G)	0.35	2.81	1.59	4.4	45.45	31.5	33.41	45.45	111.35	8.29	0.85	3.48	1.06				260.69	92.69
Mood N	33	307	132	439	842	3900	1297	642	5945	284	8	518	86				14083	72.68
Volume (L)	3	2	4	6	9	8	6	8	30	6	5	5	2	ro.	5	5	172	
Level				Uns					En8								Eng	8
Feature	99	89			69					79	83	25	828	Geo- morph1	Geo- morph2	Geo- тогрh3		

APPENDIX 6.2 Holmedale Site (AgHb-191): Plant Remains -- Seeds

Total	20	60	15	10	53	2	•	2	20	9	11	37	5	9	1	6	8	-	35	Ξ	Ξ	ឧ	ø	S.	3	4
Unident			4	4	6	-	Ì	-	2	2	7	4	₆	-	e	s	2		17	7	- -		4	4	3	
Unknown	2				2						-	-	-						-							
Cattail												0														+
Sedge					۰							٥							0							
Small			-		-							0							0							
Pepper- grass					0							o							0							
Spike- nard			-		-							0							0							-
Cleavers					°							0			1	2			6							
Cheno- pod	-			4	5				2			2			2				2							
Sumac	-	4			3						1	1			1				1							
Старе					٥							0			-				-							
Nightshade family					0							0							0			1				
Night- shade					٥							0							0			9				
Straw- berry					0							0			-				-							
Bramble	2			1	ဗ			-	12			12		-					1	3	8	9	2	-		
Haw- thom					0							0							0							
Prunus sp.	2				2							o	-						-							
Товассо					0	1				ဂ		6				2			2							
Maize	12	3	6	-	2				-	-	2	4		-	2			-	2	-		-				2
Level	Ē	3	S		Sum	#	3					sum	2	2	2	2	2	2	mns							
Feature	-					e	4	19	¥.	8	2		**							11	18	30	¥	4	54	62

Stage 4 Mitigation of the Homedale (AgHb-191) Site, City of Brantford Appendix 6: Plant Remains

,																			
Total	s	2	7	80	15	10	25	52	41	128	7	2	50	4	0	0	0	404	100.00
Unident.	4	-		-	-	æ	24	9	12	45	9	-		e e				129	31.93
Unknown			5		5				-	-			49					59	14.60
Cattail					0			е	8	=								12	2.97
Sedge					۰					0			-					٠	0.25
Small Grass					0					0								1	0.25
Pepper- grass					0			2		2								2	05.0
Spike- nard					0					0								-	0.25
Cleavers					0					0								ε	9.74
Cheno- pod				3	3			10		10	1							24	5.94
Sumac					o			ε	ı	4								11	2.72
Grape					o	-				0								1	0.25
Nightshade family					o				1	4								5	0.50
Night- shade					0			3	3	9	1							13	3.22
Straw- berry					0					0								1	0.25
Bramble				3	8	1		4	2	7								47	11.63
Haw- thorn					o			1		1								1	0.25
Prunus sp.					0					0								ε	0.74
Tobacco					0			Ţ.	1	2								8	1.98
Maize	1	1	2	μ.	3	3	-	22	12	38	2	1		1				85	21.04
Level					Sum					шns				1				шns	*
Feature	63	65	82			69					79	83	18	88	Geo- morph1	Geo- тогрћ2	Geo- morph3		

APPENDIX 6.3 Holmedale Site (AgHb-191): Plant Remains -- Wood Charcoal

Feature	Level	Maple	Beech	Ash	Ironwood	Elm	Red Oak	White Oak	Birch	Ring Porous	Diffuse Porous	Unident. Wood	Total Wood
1	UII			4	1	4	4	1		2			16
	3	1	2		3	1	9					3	19
	5	12		1	5	1	4					2	25
		8	1	1	3	7	1			3		1	25
	sum	21	3	6	12	18	1	0	5	0	0	6	85
3	fill	40											40
4													0
5				_			2			3			5
7A		1		1	2	5				1	4	3	17
7B				13									13
7C				1			9			1			11
	sum	1	0	15	2	5	9	0	0	2	4	3	41
8	2	1	1			2					1	2	7
	2	2	1	2	2	2	2			1	2	2	16
	2	7	8	1	1	4	2		1		2	2	26
	2	1				2	1		4	1		1	10
	2	too smali											0
	2	2	7			5	1		2		3	2	22
	\$um	13	15	3	3	15	6	0	7	2	8	9	81
11				1		:			:	1	1		3
18		1					1						2
30				3	2	1		2		9		1	18
34							2			2	1	1	6
44		too small											0
51		7		1	4	5	1				2	2	22
52		1	. 1	. 1		10	4			3	2	3	25
53			1	1						4		2	8
65							1			1		1	3
68						1	2			8		2	13
		2				3					3		8
	sum	2	0	0	0	4	2	0	0	8	3	2	21
69						3				1	1		5
				1			20					4	25
		3		1		20	1					1	26
													0
	sum	3	0	2	0	23	21	0	0	1	1	5	56
79					25							1	26
83				1	1		1					3	6

Feature	Level	Maple	Beech	Ash	Ironwood	Elm	Red Oak	White Oak	Birch	Ring Porous	Diffuse Porous	Unident. Wood	Total Wood
84				7	1					3		3	14
88	1				1		1					4	6
Geo- morph1													0
Geo- morph2					:								0
Geo- morph3													0
	sum	89	20	41	51	78	89	3	7	44	22	46	468
	%	19.02	4.27	8.76	10.90	16.24	14.74	0.64	1.50	9.40	4.70	9.8	100.00

APPENDIX 7 Holmedale Site (AgHb-191): Faunal Remains Inventory

Provenience Unit	Mam.	Bird	Rept.	Amph.	Fish	Moli.	Class	Total	Worke	Description
		-	1m² T	EST (JNITS	S AND	BLO	CK E	XCAV.	n² TEST UNITS AND BLOCK EXCAVATIONS
475-155 (ploughzoneunwashed)	-	0	0	0	0	0	0	1	0	
480-199 (ploughzone-unwashed)	2	0	0	0	0	0	0	2	0	Mammal: large mammal sp. Consider moose, elk, & Euro-Canadian domestic farm animals. 2 potential IDs.
480-209 (ploughzone)	-	0	0	0	0	0	0	-	0	Mammal: raccoon. 1 potential ID.
480-238 (surface)	25	0	0	0	0	1	0	26	0	-Mammal: predominant class - Deer & artiodactyl (foot, tooth, antler). Also some possible deer vertebral fragments. 5 potential IDsMollusc: land snail.
485-221 (ploughzone- unwashed)	0	0	0	0	0	0	0	0	0	General: no bone; only nut shells.
485-222 (ploughzone-unwashed)	5	0	0	0	0	0	0	5	0	Mammal: all calcined. No IDs.
487-222 (ploughzone-unwashed)	-	0	0	0	-	0	0	2	0	
488-220 (ploughzone-unwashed)	-	0	0	0	0	0	0	_	0	Mammal: dog/wolf. 1 potential ID.
488-221 (ploughzone -unwashed)	0	0	0	0	0	0	0	0	0	General: no bone; only biomorphic stone.
488-224 (ploughzone-unwashed)	-	0	0	0	0	0	0	-	0	
489-220 (ploughzone-unwashed)	2	0	0	0	0	0	0	2	0	Mammal: beaver. 1 potential ID.
489-221 (ploughzone-unwashed)	4	0	0	0	0	0	0	4	0	Mammal: no IDs.
489-222 (ploughzone-unwashed)	2	0	0	0	0	0	-	3	0	Mammal: deer. 1 potential ID.
489-224 (ploughzone-unwashed)	-	0	0	0	0	0	0	-	0	
490-220 (ploughzone)	8	0	0	0	0	0	0	ω	0	Mammal: no IDs.
490-221 (ploughzone)	9	0	0	0	0	7	0	13	0	Mammal: no IDs. Mollusc: land snail fragments.
490-223 (ploughzone-unwashed)	9	0	0	0	0	0	0	9	0	0Mammal: chipmunk. 1 potential ID.

Stage 4 Mitigation of Holmedale Site (AgHb-191) Appendix 7: Faunal Remains Inventory

Provenience Unit	Мат.	Bird	Rept.	Amph.	Fish	Moll.	Class	Total	Worke	Description
490-224 (A horizon)	3	0	0	0	0	0	0	3	0	Mammal: deer. 1 potential ID.
490-224 (ploughzone-unwashed)	3	0	0	0	0	0	0	3	0	
491-210 (ploughzone)	2	0	0	0	0	0	0	2	0	
491-221	4	0	0	0	0	0	1	5	0	Mammal: no IDs.
491-224 (ploughzone)	Φ	-	0	0	0	0	0	6	0	Mammal: ox (vertebral fragment with saw cut mark), leporid, chipmunk, & 1 other species. 4 potential IDsAvian: large bird. 1 potential ID.
492-221(ploughzone)	5	0	0	0	0	0	0	5	0	_
492-223 (ploughzone)	_	0	0	0	0	2	0	3	0	Mammal: large mammal. 1 potential ID. Mollusc: land snail fragments.
493-223 (ploughzone-unwashed)	5	0	0	0	0	0	. 0	5	0	Mammal: no IDs.
494-224 (ploughzone)	45	0	0	0	-	7	ĸ	62	N	Mammal: predominant class - Deer (foot), large dog or wolf?, muskraf? (w unfused metacarpal). 8 potential IDs. Worked: whittled deer phalanx, poss in process of mfg; Crude, short, flat awl or expedient bone pointFish: bowfin: 1 potential IDMollusc: possible ID FW mussel fran Also 3 so of land snail
494-229 (unwashed)	16	0	0	0	0	0	2	18	0	Mammal: deer. 2 potential IDs.
495-220 (unwashed)	2	0	0	0	0	0	0	2	0	
495-221 (ploughzone-unwashed)	7	0	0	0	0	0	0	7	0	Mammal: deer (foot). 2 potential IDs.
495-222 (ploughzone-unwashed)	10	0	0	0	0	0	0	10	0	
495-223 (ploughzone)	35	-	0	0	0	-	7	44	-	Mammal: predominant class - Deer (foot & vertebra). 7 potential IDs. Worked: Polished awl buttMollusc: Unworked freshwater mussel fragment.

Provenience Unit	Mam.	Bird	Rept.	Amph.	Fish	Moll.	Class	Total	Worke	Description
495-224 (ploughzone—2 bags)	92	4	0	0	_	2	13	112	2	-Mammal: predominant class - Deer (foot & forelimb), large artiodactyl (possibly elk), raccoon. Worked: flat awl point, weathered. 19 potential IDsAvian: worked: Entire matchstick awl (not bipoint)Mollusc: land snail.
495-229 (ploughzone-unwashed)	8	0	0	0	0	0	0	8	0	Mammal: deer (head, foot). 2 potential IDs.
495-230 (ploughzone-unwashed)	3	0	0	0	-	0	+	5	0	Mammal: no IDs.
495-235 (unwashed)	_	0	0	0	0	0	0	-	0	
496-220 (ploughzone-unwashed)	1	0	0	0	0	0	0	-	0	Mammal: large mammal, possibly deer carpal. 1 potential ID.
496-221 (unwashed)	3	0	0	0	0	0	2	5	0	Mammal: large mammal cranial. 1 potential ID.
496-222 (ploughzone)	2	0	0	0	0	0	0	2	0	
496-222 (ploughzone)-unwashed	13	0	0	0	0	0	-	14	0	 Mammal: muskrat & another probably identifiable species. 2 potential IDs.
496-223 (ploughzone-unwashed)	24	-	0	0	0	0	3	28	0	Mammal: predominant class - Deer (foot). 4 potential IDs.
496-224	19	0	0	0	0	0	.C	24	0	 Mammal: deer (foot including entire but unworked distal phalanx). 2 potential IDs.
496-224 (ploughzone)	72	7	0	0	2	5	12	93	1	Mammal: predominant class - Deer (foot, ulna, head), beaver.
										- Avian: possible juvenile passenger pigeon. 1 potential IDFrish: 1 potential IDMollusc: Marginella? & land snail. Worked: Marginella shell may be ground on side, exposing interior.
497-220 (ploughzone-unwashed)	_	0	0	0	0	0	0		0	
497-221 (unwashed)	4	0	0	0	0	0	0	4	0	Mammal: beaver. 1 potential ID.
497-222 (ploughzone)	8	0	0	0	0	0	0	8	0	

Provenience Unit	Mam.	Bird	Rept.	Rept. Amph.	Fish	Moil.	Class	Total	Worke	Description
497-223 (ploughzone-unwashed)	27	-	0	0	2	_	в	34	0	-Mammal: predominant class - Deer (foot & head), muskrat. 7 potential IDs
497-223 (ploughzone-unwashed)	10	0	0	_	0	ဧ	0	4	0	Mammal: possible bear. 1 potential ID. Amphibian: bullfrog. 1 potential ID. Mollusc: freshwater mussel & land snail fragments.
497-224 (ploughzone)	2	0	0	0	0	0	0	2	0	
497-224 (ploughzone-unwashed)	99	4	0	0	2	7	ω .	79	0	Mammal: predominant class - Deer (mostly foot), muskrat (unfused metatarsal). 13 IDsAvian: medium-large birdFish: U.V
500-220 (ploughzone)	4	0	0	0	2	0	2	8	0	Mammal: deer. 2 potential IDs.
500-224 (ploughzone)	5	0	0	0	0	0	0	5	0	Mammal: deer. All calcined. 2 potential IDs.
520-200 (ploughzone)	1	0	0	0	0	0	0	-	0	Mammal: probably pig, angle of mandible.
1 m² Square Totals	578	14	0	-	12	35	63	703	9	
						FEA.	FEATURES	S		
general	158	200	0	o	45	2	0	229	0	Mammal: predominant class-juvenile bear, wolf/large dog, grey squirrel, small carnivore. Some butcher marksAvian: duck-sized bird, possibly identifiable juvenile bird. 2 potential IDsAmphibian: frog. 4 potential IDsFish: lake whitefish (vert., sunfish, bass, bullhead, yellow perch. ScalesMollusc: unworked.

Stage 4 Mitigation of Holmedale Site (AgHb-191) Appendix 7: Faunal Remains Inventory

Provenience Unit	Mam.	Bird	Rept.	Amph.	Fish	Moll.	Class	Total	Worke	Description
Feature 1 (continued) -general	12	-	0	6	6	0	0	31	2	-Mammal: bear, dog/wolf, muskrat. Worked: polished fragment of dog mandible; expedient bipoint, diameter of pencilFish: lake trout (vert.), yellow perch, sucker, bullhead, whit bass (?).
-general (fill)	ω	9	0	0	162	0	19	195	0	-Mammal: -Avian: pa -Fish: prec
-NE quad	- T	0	0	0	0	0	0	-	0	Mammal: U/I
-NW quad	-	0	0	0	0	0	0	-	-	Mammal: possible Worked: one edge of flat bone fragment, unifacially flaked with possible use wear.
-Level 3 (float)	2	က	0	0	80	0	6	94	0	Avian: possibly identifiable medium-small bird. -Fish: predominant class lake whitefish (vert.), sunfish, possibly yellow perch. Mostly small U/I fragments. Scales
Level 5, north part (float)	13	∞	0	O	306	0	15	351		
										small minnows, sucker, yellow perch. 28 potential Ids. Many scales.

Stage 4 Mitigation of Holmedale Site (AgHb-191) Appendix 7: Faunal Remains Inventory

Provenience Unit	Mam.	Bird	Rept.	Amph.	Fish	Moli.	Class	Total	Worke	Description
Feature 8 –NW quad (wall collapse)	-	0	0	0	0	0	0	-	-	oeaver ii
-SE quad (3 bags)	56	0	m I	0	-	0	ω 	9g 	- 	dominant class—de worked: beave bping turtle & anoth
-SW quad (3 bags)	22	ဖ	-	0	8	0	_	32	7 	
-SW quad (float)	0	0	0	0	-	0	7	8	0	-Fish: U/I
-NE quad, Level 1 (unwashed)	10	_	0	0	0	0	0	1	0	 Wammal: large mammal long bone shaft fragments, U/I. Avian: large bird, potentially identifiable.
-NW quad, Level 1 (unwashed)	9	0	0	0	0	0	0	9	0	-Mammal: large mammal long bone shaft fragments, U/I, calcined.
-NE quad, Level 2	11	5	0	0	2	0	4	22	0	 -Mammal: deer, raccoon, possibly 4 IDs. -Avian: medium-large & medium-sized birds, no IDs. -Fish: bass? 1 potential ID.

Provenience Unit	Mam.	Bird	Rept.	Amph.	Fish	Moll.	Class	Total	Worke	Description
Feature 8 (continued) -NE quad, Level 2 (ceramic cluster)	170	16	0	0	12	0	21	221	4	-Mammal: predominant class-deer, beaver, grey squirrel & raccoon. 36 potential Ids. 55 calcined U/I large mammal long bone fragments. Worked: beaver incisor chisel; 2 miscellaneous worked; 1 manu-factured waste. -Avian: large bird fragments, identifiable, some fit together. Also duck-sized bird. -Reptile: miscellaneous shell fragments. No IDs.
-NE quad, Level 2 (float)	21	2	0	0	27	0	=	9	_	
-NE quad, Level 2 (float)	9	0	0	0	8	0	16	89	-	-Mammal: muskrat (unfused metatarsal), beaver. 2 potential IDs. Worked: beaver incisor chiselAvian: grouse-sized birdFish: predominant class-eel (vert.), possible sucker. 2
-NW quad, Level 2	101	7	0	0	27	0	2	127	4	—Mammal: predominant class—deer, beaver, raccoon, muskrat, chipmurk. 27 possible IDs. 8 U/I calcined large mammal long bone fragments. Worked: rodent I1 chisel (possibly muskrat?); antler object-like section of a "letter opener", decorated, half of a gouged perforation at one end; miscellaneous calcined awl? fragment. —Avian: large raptor, possibly eagle, grouse-sized bird ulna, passenger pigeon-sized juvenile, possible ID. Worked: complete awl from radius of large bird. —Fish: eel (3 vert.), probable redhorse sucker.
-NW quad, Level 2	61	4	0	0	6	0	5	76	0	-Mammal: predominant class-deer, raccoon, muskrat (unfused innominate), grey squirrel, beaver. 17 potential IDsFish: lake whitefish (vert.), sucker, possibly sunfish

Provenience Unit	Мат.	Bird	Rept.	Amph.	Fish	Moll.	Class	Total	Worke	Description
Feature 8 (continued) -NE quad, Level 2 (float)	25	0	0	0	37	0	11	73	0	 Mammal: 20 minor calcined fragments of animals in squirrel to raccoon size range. No IDs. Fish: sunfish, sucker. 2 potential IDs. Scales.
-NE quad, Level 4	3	0	0	0	0	0	0	3	0	
Feature 11 Level 1 (unwashed)	0	0	0	00	0	0	0	0	0	 General: nothing found in bag. Presumably it contained a worked item which was pulled earlier, or contents were found to be non-faunal & shifted to another collection.
Feature 30 —fill (unwashed)	4	0	0	0	0	0	0	4	0	Mammal: minor fragments of calcined long bone. No ID.
Feature 44 -fill (float)	- -	-	0	0	0	0	-	က	0	
Feature 47 all (unwashed)	က	0	0	-	0	0	1	5	0	 Mammal: chipmunk mandible with 2 loose molariform teeth. Amphibian: probable toad tibiofibula. I ID.
Feature 48 —all (unwashed)	თ	0	0	0	-	7	0	12	0	-Mammal: large mammal vertebral & long bone fragments.
Feature 49 —(unwashed)	-	0	0	0	0	0	0	-	0	Mammal: large mammal long bone fragment.
Feature 51 -(2 bags)	182	4	0	-	8	0	σ .	198	e	-Mammal predominant class-mostly deer limb, some head area, no ankle bones or phalanges. Also chipmunk, possible grey squirrel. 26 potential IDs. Worked: 1 robust & 1 delicate worked fragment. -Avian: possibly grouse & larger bird in goose range. 2 potential IDs. Worked: highly polished strip fm long bone of large bird (not comb tooth as suggested). -Amphibian: bullfrog? 1 potential ID.

Provenience Unit	Мат.	Bird	Rept.	Amph.	Fish	Moll.	Class	Total	Worke	Description
Feature 51 (continued) north wall (float)	50	0	0	0	9	0	9	32	0	 Mammal: predominant class-possible grey squirrel (6 bones possibly from same paw). Remainder, all minor fragments, is probably all unidentifiable. Fish: Coregonine (vert.)
Feature 52 —(fill–unwashed)	19	0	0	0	0	0	0	19	0	 Mammal: predominant class-minor calcined fragments, primarily of large mammal long bones. No IDs.
Feature 52 (continued) -(fill-float)	150	ω	0	0	0	0	80	238	0	-Mammal: predominant class-raccoon? Large mammal, minor long bone & (2) vertebral fragments together with quantity of miscellan-eous minor fragments. All calcined. (All Class U/I are burned.) 3 potential IDsAvian: small bird (downy woodpecker size range). Furculum section, possibly identifiable. All calcined.
Feature 53 -(float)	6	0	0	0	0	0	ю	12	0	nor calcined fragments
-(fill-unwashed)	10	0	0	0	0	0	2	12		— — — — — — — — — — — — — — — — — — —
Features 59 & 69 (fill)	-	0	0	0	0	0	0	-	0	Mammal: large long bone, potential ID.
Feature 65 -(fill-float)	9	-	0	0	0	0	m	10	0	-Mammal: muskrat, calcined. 1 potential ID.
Feature 66	64	က	0	0	2	4	S	83	-	-Mammal: predominant class-raccoon, beaver, deer, grey squirrel, bear/ 23 potential IDs. Worked: beaver incisor chisel
										with serrated edge. —Avian: large bird. 2 potential IDs. —Fish: yellow perch. 5 potential IDs. —Mollusc: 2 unworked FW mussel fragments, 2 land snails, no IDs.

Provenience Unit	Mam.	Bird	Rept.	Amph.	Fish	Moll.	Class	Total	Worke	Description
Feature 68 –(float)	9	0	-	0	0	0	0	7	0	Mammal: U/I. Reptile: U/I.
-(float)	7	0	0	0	0	0	 	8	0	
-south ½ (float)	7	က	0	0	9	0	9	22	0	-Mammal: possible beaverAvian: large hawk? 1 potential IDFish: Coregonine (vert.), small sucker.
Feature 69	79	ω	2	0	23	2	2	126	2	-Mammal: predominant class-deer (including ribs & vertebrae), beaver, raccoon, grey squirrel, bear, muskrat, chipmunk. 21 potential IDs. Worked: complete deer ulna awl; proximal deer ulna awl (polished). -Avian: large birdReptile: identifiable marginal plates. 2 potential IDsFish: small sucker predominates, also walley (?), bullhead, & small sunfish. 14 potential IDsMollusc: 5 unworked FW mussel & 2 land snail fragments, no IDs.
-(float)	31		0	0	23	0	17	72	0	-Mammal: possible muskrat, mouse/vole, artiodactyl, mediumsmall carnivore. 1 potential ID to speciesAvian: small bird proximal phalanx, not identifiableFish: predominant class-sucker. 1 potential ID.
-north ½, Level 1 (float)	-	0	0	က	0	0	က	7	0	-Avian: small frog or toad, too small to food item. 2 potential IDs to genus.
-Level 3 (float)	62	0	0	0	80	0	37	107	0	Mammal: predominant class-chipmunk, possible raccoon, possible muskrat. Maximum 4 potential IDs. Fish: small minnow (pharyngeal), theoretically identifiable.

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Provenience Unit	Mam.	Bird	Rept.	Атрh.	Fish	Moll.	Class	Total	Worke	Description
Feature 69 (continued) -Level 3	76	5	-	-	36	-	φ	154	c)	-Mammal: predominant class-deer, raccoon, grey squirrel, beaver & muskrat. 30 potential IDs. Worked: perforated & whittled distal deer phalanx; 2 end sections of worked antler itesm; 2 antler manu-facturing debrisAvian: grouse-sized bird, possible juvenile passenger pigeon, possible small woodpecker. 4 potential IDsReptile: turtle, identifiable shell fragments. 1 IDAmphibian: possible bullfrog. 1 potential IDFish: yellow perch, wlleye, sucker, coregonine (3 vert.), possible Esox postcleithrum & 2 unusual hyomandibularsMollusc: land snail, U/I.
Feature 79 -north ½, Level 1	8	0	0	0	0	0	0	8	0	-Mammal: 5 calcined large long bone fragments. No IDs.
-south ½, Levels 1 & 2	25	—	0	0	0	0	2	28	0	 Mammal: predominant class—deer (2 phalanx & 1 possible tibial tarsal fragments) & 21 other long bone fragments, all calcined. 1 unburned. 3 potential IDs.
-north ½, Level 2	36	_	0	0	0	0	0	37	0	 Mammal: predominant class—deer (2 phalanx fragments) & 32 other minor long bone fragments, all calcined or charred. Grey squirrel. 3 potential IDs.
Feature 82a	92	4	0	0	က	0	2	101	0	-Mammal: predominant class-mostly deer, well represented are phalanges, ankle & vertebrae. Also muskrat-sized animal. 31 potential IDsAvian: juvenile large bird is only potential IDFish: sturgeon & identifiable operculum. 2 potential IDs.
Feature 82b	4	2	0	0	0	0	0	16	~	-Mammal: 1 potential ID. Worked: section of grooved & split tool handle, ground smooth. (Check dog radius, caudal border with inter-osseous crest.) -Avian: 1 juvenile U/I.
Feature 83 -(float)	0	0	0	0	ю	-	2	9	0	-Fish: possible tiny yellow perch. 1 potential ID. -Mollusc: 1 unworked freshwater mussel fragment.

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Provenience Unit	Маш.	Bird	Rept.	Amph.	Fish	Moll.	Class	Total	Worke	Description
Feature 84 (float)	0	0	0	0	0	5	0	5	0	Mollusc: possibly all fragments from single land snail.
Feature 86 (unwashed)	3	0	0	0	0	0	0	ო	0	-Mammal: deer. 2 potential IDs, probably same element.
480-215: Post 6	-	0	0	0	0	0	0	-	0	
488-215: Post 10 (fill)	7	2	0	0	1	0	0	4	0	-Avian: 1 good potential ID.
491-215: Post 15 (unwashed)	4	0	0	0	0	0	0	4	0	-Mammal: no IDs.
490-215: Post 20 (unwashed)	0	-	0	0	0	0	1	2	1	-Avian: Worked: groove & split manufacturing failure.
480-215: Post 28 (fill)	ဗ	2	0	0	2	0	0	2	0	-Mammal: 1 potential ID. -Avian: Possible juvenile. 1 potential ID. -Fish: 1 potential ID.
480-215: Post 30 (fill)	2	0	0	0	0	0	0	2	2	-Mammal: Worked: beaver incisor chisel with serrated edge; entire expedient awl.
480-215: Post 31 (fill burial)	154	0	0	0	თ	0	2	165	0	-Mammal: predominant class-beaver (major portion of carcass, including parts of head, all parts of vert. column, ribs, arms, manus, pelvis, legs, pes. All U/I mammal seems consistent with beaver -Fish: sunfish (full-sized), possible <i>Esox</i> postcleithrum, unusual hyomandibular. 3 potential IDs.
Provenience unknown	7	4	0	-	0	0	2	4	0	-Mammal: raccoon. 1 potential ID. -Avian: U/I. -Amphibian: mudpuppy. 1 potential ID.
Feature Totals	1,817	142	10	34	998	22	327	3,218	34	