APPENDIX I:

PROJECT CORRESPONDENCE AND MEMORANDUM OF AGREEMENT WITH EXHIBIT A: PHASE III ARCHAEOLOGICAL DATA RECOVERY PLAN

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Silber, Barbara

From: Dan Reagle [DReagle1@mta.maryland.gov] **Sent:** Mon 4/15/2013 09:41
To: Silber, Barbara
Cc:
Subject: Feedback from SHPO
Attachments:

Barb,

The SHPO is happy with your work. I'll send on the official response after I receive it.

Thank you,

Dan Reagle

Maryland Transit Administration | 6 St. Paul Street, Rm 923 | Baltimore, MD 21202 | 410.767.3771

Attachments must be <5MB.

From: Beth Cole [mailto:BCole@mdp.state.md.us]
Sent: Friday, April 12, 2013 9:31 AM
To: Dan Reagle; daniel.koenig@dot.gov
Subject: Dunkirk data recovery - prehistoric houses

Dan and Dan,

I've been reviewing the management summary on the Phase III work done for the Dunkirk Park & Ride, and will be generating our response letter later today. We are satisfied that the fieldwork component has successfully achieved its goals and have no objection to construction proceeding concurrently with the completion of the analysis and reporting components of the data recovery. One of the most exciting discoveries of this project is the identification of a prehistoric house site. Few such definitive house site patterns have been examined in Maryland, and very few data recoveries have been done on prehistoric sites in Southern MD. So we are really pleased with the outcome of this study.

For a better understanding of what these prehistoric houses may have looked like, check out the Village part of the JPPM website and open the box that says "click here to view photos of the village construction and more": http://www.jefpat.org/village.html. You can get a really good sense of what the houses may have looked like, how they were constructed, and how the little posts would have left their mark in the ground for

future archeologists to find!

The data recovery work at the Dunkirk Park & Ride sites is making a valuable contribution to our understanding of Indian settlement and habitation site patterns in Southern MD. FTA and MTA should be proud of the research results generated by this project. Let me know if you have questions and have a good weekend,

Beth

Beth Cole
Administrator, Project Review & Compliance
Maryland Historical Trust
100 Community Place
Crownsville, MD 21032
410-514-7631
410-987-4071 (fax)
bcole@mdp.state.md.us
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MEMORANDUM OF AGREEMENT
AMONG THE FEDERAL TRANSIT ADMINISTRATION,
THE MARYLAND STATE HISTORIC PRESERVATION OFFICER,
AND THE MARYLAND TRANSIT ADMINISTRATION,
PURSUANT TO 36 CFR PART 800
REGARDING THE DUNKIRK PARK AND RIDE PROJECT
IN CALVERT COUNTY, MARYLAND

WHEREAS, the Maryland Transit Administration (MTA) plans to construct the Dunkirk Park and Ride Project (Project) in Calvert County, Maryland; and

WHEREAS, the Federal Transit Administration (FTA) plans to provide funding assistance for the Project, thereby making the Project an undertaking subject to review under Section 106 of the National Historic Preservation Act (NHPA), 16 U.S.C.A. § 470f, and its implementing regulations, 36 CFR Part 800; and

WHEREAS, the FTA conducted cultural resources investigations within the Project's Area of Potential Effects, identified architectural resources and archeological sites and evaluated their eligibility for the National Register of Historic Places (National Register), and coordinated and documented those efforts in consultation with the Maryland State Historic Preservation Officer (MD SHPO); and

WHEREAS, the FTA determined that the undertaking will have an adverse effect on archeological sites 18CV491 and 18CV492, properties that are eligible for inclusion in the National Register under Criterion D; and

WHEREAS, the FTA has consulted with the MD SHPO pursuant to 36 CFR Part 800; and

WHEREAS, the MTA has participated in consultation, has responsibilities for implementing stipulations under this Memorandum of Agreement (MOA), and has been invited to sign the MOA as a signatory party; and

WHEREAS, the FTA has consulted with Calvert County Planning & Zoning (Calvert County) regarding the effects of the undertaking on historic properties and invited them to sign this MOA as a concurring party; Calvert County has chosen not to sign the MOA;

WHEREAS, in accordance with 36 CFR § 800.6(a)(1), FTA has notified the Advisory Council on Historic Preservation (ACHP) of its adverse effect determination providing the specified documentation, and the ACHP has chosen not to participate in the consultation pursuant to 36 CFR § 800.6(a)(1)(iii);

NOW, THEREFORE, the FTA, the MTA and the MD SHPO agree that the undertaking shall be implemented in accordance with the following stipulations in order to take into account the effect of the undertaking on historic properties.

STIPULATIONS

The FTA and MTA shall ensure that the following stipulations are implemented:

I. Treatment of Archeological Sites 18CV491 and 18CV492 – Data Recovery

The Project will impact sites 18CV491 and 18CV492 through construction of the Dunkirk Park and Ride Project's parking lot and stormwater management facilities.

The MTA developed a plan for the recovery and interpretation of important data from sites 18CV491 and 18CV429 in consultation with the MD SHPO and the FTA. The MTA shall implement the data recovery plan entitled *Phase III Archaeological Data Recovery Investigations of 18Cv491 (Dunkirk P&R 1 Site) and 18Cv492 (Dunkirk P/R Site)* (Revised April 2009) included as Exhibit A to this MOA, prior to and in coordination with those project activities that could disturb the sites. The Data Recovery Plan includes appropriate provisions for fieldwork, analyses, reporting, curation of recovered materials and records, public interpretation, and ongoing consultation with the signatory parties to this MOA.

The MTA, the MD SHPO, and Calvert County will meet on-site to evaluate the success of the fieldwork phase of the data recovery programs, near the end of the fieldwork efforts. The MTA shall submit a management summary to the FTA, the MD SHPO, and Calvert County documenting the completion of fieldwork for 15 day review. Upon receipt of the concurrence from the FTA, in consultation with the MD SHPO, MTA may proceed with construction activities in the site areas concurrently with completion of the remaining laboratory, analyses, and reporting phases of the data recovery work.

II. Public Education and Outreach

The MTA will prepare and implement a public education and outreach program as part of the Project, following completion of the final report. The MTA will make available electronic copies of the Phase I/II and Phase III technical reports, as well as the interpretive summary, on the MTA's website. The interpretative summary will be non-technical and be in the form of an article with graphics and photographs. Potential recipients of the summary will be local historical societies, local governments, community centers, avocational societies, professional societies, the Archeological Society of Maryland, the Calvert County Historic District Commission and the Calvert County Historical Society. The MTA shall provide the MD SHPO and Calvert County with a schedule for implementing the public education and outreach program, as well as with copies of any completed materials for that program.

III. Unanticipated Discoveries

In the event of any unanticipated discoveries of potential historic properties during construction, MTA will ensure that the MD SHPO and the FTA are notified within 48 hours

after the discovery, and all construction involving subsurface disturbance will immediately be halted in the area of the discovered resource and in the area immediately surrounding the resource where further subsurface deposits may reasonably be expected to occur. The MTA and the MD SHPO, or an archeologist approved by the MD SHPO, will inspect the work site without unreasonable delay and determine the parameters of the affected archeological site. Construction work may then continue in the project area outside those parameters. Within fifteen (15) working days of first notifying the FTA and MD SHPO, MTA, in consultation with the MD SHPO and the FTA, will assess the National Register eligibility of the resource. If the FTA in consultation with the MD SHPO determines that the resource is eligible for the National Register, the FTA in consultation with the parties to this MOA will consider amending the MOA to ensure that the appropriate avoidance, protection, and treatment measures are implemented as appropriate.

IV. Performance Standards

A. Professional Qualifications: The MTA shall ensure that all archeological work carried out pursuant to this MOA is carried out by or under the direct supervision of a person or persons meeting at a minimum the Professional Qualifications Standards set forth at 36 CFR Part 61, Appendix A.

B. Standards and Guidelines: The MTA shall ensure that all cultural resources investigations and work performed pursuant to this MOA shall be conducted consistent with the principles and standards contained in the documents (and subsequent revisions thereof) listed below:

- *Standards and Guidelines for Archeological Investigations in Maryland* (Shaffer and Cole 1994); and
- *Advisory Council on Historic Preservation – Section 106 Archaeology Guidance* (ACHP 2007).

C. Curation: All materials and records resulting from cultural resources investigations conducted for the Project will be curated in accordance with 36 CFR 79 and consistent with *Technical Update No. 1 of the Standards and Guidelines for Archeological Investigations in Maryland* (Maryland Historical Trust, revised 2005) at the Maryland Archeological Conservation Laboratory.

D. Reports: The MTA shall submit a draft and final report(s) detailing the results of the data recovery efforts at 18Cv491 and 18Cv492 to the FTA, the MD SHPO, and Calvert County for review and comment. The comments of the FTA and the MD SHPO shall be addressed in the final report. The MTA will provide two copies of each final report to the MD SHPO, two copies to the FTA, and two copies to Calvert County. In addition, the MTA will provide an electronic copy of the final report in the form of a PDF file generated directly from the original Word document to the MD SHPO.

VI. Dispute Resolution

Should the MD SHPO object within thirty (30) calendar days to any documents or plans

submitted for review pursuant to the terms of this MOA or believe that MTA has failed to comply with the commitments as set forth in this MOA, the MTA and the MD SHPO shall consult in an effort to resolve any objection. If the objection cannot be resolved, then MTA will notify the FTA and the FTA will attempt to resolve the dispute. If the FTA determines that the objection cannot be resolved, the FTA shall request and take into account the recommendations of the Advisory Council on Historic Preservation, pursuant to 36 CFR 800.7, with reference only to the subject of the dispute. The FTA's responsibility to carry out all other actions under this MOA that are not the subject of the dispute will remain unchanged.

VII. Resolution of Objections by the Public

At any time during implementation of the measures stipulated in this MOA, should any objections pertaining to any such measure or its manner of implementation be raised by a member of the public, the FTA shall notify the parties in this MOA and take the objection into account, consulting with the objector and, should the objector so request, with any of the parties to this MOA to resolve the objection.

VII. Amendment

Should any signatory party to this MOA request an amendment, the requesting party shall notify all other parties in writing. The written notification shall include a statement of the purpose of the required modification and the proposed wording to amend this MOA. All parties shall review the proposed amendment and, if necessary, shall consult among themselves to discuss the amendment. If after consultation it is agreed that the amendment is necessary or desirable, all parties to this original MOA shall sign the amended MOA. If necessary, dispute resolution shall follow Stipulation VI above.

IX. Coordination with the Maryland Historical Trust Act of 1985

The MD SHPO agrees that the fulfillment of the terms of this MOA will satisfy the responsibilities of MTA and any other Maryland state agency under the requirements of Maryland State historic preservation law (§§ 5A-325 and 5A-326 of the State Finance and Procurement Article, Annotated Code of Maryland) for the components of the project which require licensing, permitting and/or funding actions from Maryland state agencies.

X. Termination

If any signatory to this MOA determines that its terms will not or cannot be implemented, that party shall immediately consult with the other parties to attempt to develop an amendment per Stipulation VII above. Any signatory party may propose to the other parties to this MOA that it be terminated. The party proposing to terminate this MOA shall so notify all parties to this MOA, explaining the reasons for termination and affording them at least 30 days to consult and seek alternatives to termination. The parties shall then consult. Should consultation fail, the FTA or the MD SHPO may terminate the MOA by notifying all parties.

Should this MOA be terminated, the FTA shall either:

1) Consult in accordance with 36 CFR §800.6(a)(1) to develop a new MOA; or
2) Request the comments of the ACHP pursuant to 36 CFR §800.7(a)(2).

The FTA and the ACHP may conclude the Section 106 process with a MOA between them if the MD SHPO terminates consultation in accordance with 36 CFR §800.7(a)(2).

XI. Notices

Any notices required to be sent in accordance with this MOA shall be mailed to the parties by first class mail, postage prepaid. Notices shall be sent to the parties as follows:

Federal Transit Administration
1760 Market Street, Suite 500
Philadelphia, PA 19103
Attn: Gail McFadden-Roberts, Community Planner

Maryland State Historic Preservation Office
100 Community Place
Crownsville, MD 21032
Attn: J. Rodney Little, Director/SHPO

Maryland Transit Administration
Environmental Planning Division, Office of Planning
6 St. Paul Street
Baltimore, MD 21202
Attn: John Newton, Manager

XII. Duration

This MOA shall be null and void if its terms are not carried out within five (5) years from the date of its execution, unless the signatories agree in writing to an extension for carrying out its terms.

Execution of this MOA evidences that FTA has taken into account the effects of the Dunkirk Park and Ride Project on historic properties and afforded the ACHP an opportunity to comment.

FEDERAL TRANSIT ADMINISTRATION:

By: Michael McCollum Date: 06-09-2010

for Letitia A. Thompson, Regional Administrator

MARYLAND STATE HISTORIC PRESERVATION OFFICER

By: Date: 4-14-10

J. Rodney Little

MARYLAND TRANSIT ADMINSTRATION
A MODAL AGENCY OF THE MARYLAND DEPARTMENT OF TRANSPORTATION
ACTING FOR AND ON BEHALF OF THE STATE OF MARYLAND

By: Date: 4/5/10

Ralign T. Wells, Administrator

Approved for form and legal sufficiency

By:

Office of the Attorney General

EXHIBIT A

Phase III Archeological Data Recovery Plan for 18CV491 and 18CV492

DUNKIRK PARK AND RIDE
DUNKIRK
CALVERT COUNTY, MARYLAND

PHASE III ARCHAEOLOGICAL DATA RECOVERY INVESTIGATIONS OF 18CV491 (DUNKIRK P&R 1 SITE) AND 18CV492(DUNKIRK P/R SITE)

PHASE III ARCHEOLOGICAL DATA RECOVERY PLAN

PREPARED FOR
MARYLAND TRANSIT ADMINISTRATION
OFFICE OF PLANNING
WILLIAM DONALD SCHAEFER TOWER
6 SAINT PAUL STREET
BALTIMORE, MARYLAND 21202

PREPARED BY
MCCORMICK TAYLOR, INC.
509 SOUTH EXETER STREET
4TH FLOOR
BALTIMORE, MARYLAND 21202

JANUARY 2009
(REVISED APRIL 2009)

PHASE III ARCHAEOLOGICAL DATA RECOVERY INVESTIGATIONS OF 18CV491 (DUNKIRK P&R 1 SITE) AND 18CV492(DUNKIRK P/R SITE) DUNKIRK PARK AND RIDE DUNKIRK, CALVERT COUNTY, MARYLAND

PHASE III ARCHEOLOGICAL DATA RECOVERY PLAN

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I. INTRODUCTION

The following presents a work plan for Phase III archeological data recovery investigations of two National Register-eligible archeological sites, 18Cv491 and 18Cv492. The proposed work has been designed as a treatment option to mitigate adverse affects to 18Cv491 and 18Cv492 that would otherwise result from the construction of the 491-space Dunkirk Park and Ride facility on the east side of MD 4 just north of Town Center Boulevard (**Figure 1** through **Figure 3**).

This data recovery work plan has been prepared based on the results of the Phase I/II archeological investigations at the Dunkirk Park and Ride site (during which the two sites were located and evaluated) and project comments received from the Maryland Historical Trust (MHT) in a letter dated October 21, 2008.

Sites 18Cv491 and 18Cv492 both contain intact prehistoric archeological deposits. The Phase I/II testing revealed that both sites retain excellent subsurface integrity and have a strong potential for containing intact features and stratified deposits. The Phase I/II site evaluations also revealed that the intact archeological deposits of 18Cv491 and 18Cv492 have the potential to yield important information regarding regional prehistoric technology, resource utilization, and habitation activities at small, low-order, interior wetland settings of Maryland's Western Shore. Consequently, sites 18Cv491 and 18Cv492 were recommended as eligible for inclusion in the National Register of Historic Places (NRHP) under Criterion D (MHT concurrence, October 21, 2008).

A. Site 18Cv491 (Dunkirk P&R 1 Site)

Site 18Cv491 is located in a wooded lot roughly 140 meters east of MD 4 and 110 meters north of Town Center Boulevard. The site is located on stream terrace on the north side of an unnamed tributary of Halls Creek. The center of the stream bed is located about 30 meters south of the site. The site encompasses an approximate 1,500-square meter area situated on a small rise at the landward side of the terrace, which lies at the toe of slope of a severely-eroded hill. Ground covering consists of a mix of deciduous trees and scrub/shrub vegetation (**Figure 1** and **Figure 3**).

The site was delineated based on the recovery of seventy-five prehistoric artifacts from intact buried A and B horizons. It is estimated that the site's intact archaeological deposits are situated between 0.25 and 0.60 meter below the surface. In addition to debitage, site excavations also yielded a quartzite early stage biface reject, a worked quartz cobble, and several pieces of fire-cracked rock. Based on the small aerial size and artifact assemblage, 18Cv491 is believed to be the intact remains of a procurement/processing locale or at most, a small, transient base camp. The small size of the site and its limited artifact assemblage also suggest that recurrent use of

18Cv491 was minimal, if not limited to a single occupation. Since the Phase I/II excavations did not recover any diagnostic artifacts, the temporal context of 18Cv491 is currently unknown. The site is of archeological interest because it presents an opportunity to study a small, short-term site in a good subsurface stratigraphic context.

B. Site 18Cv492 (Dunkirk P&R 2 Site)

Site 18Cv492 is located in a wooded lot roughly 370 meters east of MD 4 and 250 meters northeast of Town Center Boulevard. The site encompasses approximately 525 square meters of a small rise. This rise is located on the landward side of a stream terrace that runs along the east side of an unnamed tributary of Halls Creek. The landward side (north side) of the terrace lies at the toe of slope of a severely-eroded hill and the center of the stream bed is located about 25 meters southeast of 18Cv492. Ground covering consists of a mix of deciduous trees and scrub/shrub vegetation (**Figure 1** and **Figure 3**).

The site was identified and delineated based on the recovery of thirty-nine prehistoric artifacts from intact buried A and B horizons. The intact buried A Horizon is located about 0.42 meter below the surface. The site's intact archaeological deposits extend to a depth of approximately 1.0 meter below the surface. In addition to fourteen flakes, Phase I/II excavations also yielded seventeen Accokeek ceramic sherds, three Mockley ceramic sherds, and five pieces of fire-cracked rock. Based on the recovered artifact assemblage, 18Cv492 has been concluded to be a small Early Woodland-Middle Woodland Period base camp. Since ceramic sherds and fire-cracked rock tend to be associated with sites that were subjected to longer periods of stay, it is believed that 18Cv492 may also contain subsurface features such as hearth, storage, and refuse pits. The chronological vertical distribution of the ceramic sherds in an intact soil stratigraphy indicates that the site may be stratified.

C. Anticipated Adverse Effects

Per the current design scheme, both 18Cv491 and 18Cv492 will be adversely affected by the project because the locations of these sites coincide with the proposed locations of the park and ride and a stormwater management basin (**Figure 3**). During the construction of these facilities, the subsurface disturbance will extend to the depth of the intact archeological deposits of 18Cv491 and 18Cv492. These sites would also incur additional disturbances associated with the overall construction activities such as heavy machinery mobilization and site grading. Since the proposed construction project will result in the loss of the sites' intact archeological data, which are their defining NRHP characteristics, data recovery investigations have been identified as a treatment measure. The purpose of the investigations will be to recover and record a sufficient representative sample of the sites' significant archeological data that will be lost during the construction of the Dunkirk Park and Ride facility and its associated stormwater management facilities.

D. Federal Regulations and Project Funding

Since the Dunkirk Park and Ride Undertaking will result in Adverse Effects to 18Cv491 and 18Cv492, the proposed data recovery plan has been developed as a treatment measure to minimize harm to the sites in compliance with the following state and federal regulations:

- *Maryland Historical Trust Act of 1985, as amended, State Finance and Procurement Article §§ 5A-325 and 5A-326 (formerly Article 83B) of the Annotated Code of Maryland;*
- *Archeology and Historic Preservation: The Secretary of the Interior's Standards and Guidelines (FR 48:44716-44742) (Sept. 1983);*
- *Section 106 of the National Historic Preservation Act of 1966 (as amended) (36 CFR Part 800).*
- *Advisory Council on Historic Preservation Implementing Regulations 36 CFR Part 800 – Protection of Historic Properties (as amended)*
- *Federal Highway Act of 1966 (as amended)*
- *Section 4(f) of the U.S. Department of Transportation Act of 1966*
- *Section 101(b)(4) of the National Environmental Policy Act of 1969*
- *Executive Order 11593, Sections 1(3) and 2(b)*
- *Maryland Environmental Policy Act of 1973 (as amended)*

The proposed Phase III work plan (and previous Phase I/II work plan) for 18Cv491 and 18Cv492 was developed in accordance with the Maryland Historical Trust's (MHT) *Standards and Guidelines for Archeological Investigations in Maryland* (Shaffer and Cole 1994); *Technical Update No. 1 Conservation Standards* (July 2005); *General Guidelines for Compliance-Generated Determinations of Eligibility* (2002)*;* and MHT's Office of Research, Survey, and Registration (ORSR) guidelines.

Funding for the Phase III archeological data recovery of 18Cv491 and 18Cv492 will be provided through Federal Transit Administration (FTA) funds and Maryland transportation funds.

II. RESEARCH DESIGN

The proposed Phase III archeological data recovery investigations will be performed within a research framework that has been designed to record, collect, and analyze data with standardized scientific methods. The following presents the research objectives, target research issues, and methods of the proposed work.

The Phase III study efforts will be performed in accordance with the standards and guidelines set for by the Maryland Historical Trust (MHT) (MHT 2000, 2005; Shaffer and Cole 1994); the Secretary of the Interior's Standards and Guidelines for Archeology and Historic Preservation

(FR 48:44716-44742) (Sept. 1983); and the Advisory Council on Historic Preservation Implementing Regulations 36 CFR Part 800 -- Historic Properties (as amended).

A. Primary Objectives

Two primary objectives have been established for the Phase III archeological data recovery investigations of 18Cv491 and 18Cv492. These objectives are basic data description and cultural interpretation of the site.

1. Data Description

Basic data description is one of the fundamental research objectives of the proposed archaeological investigation. The role of the data description objective is to provide a documentary record of the site and its characteristics. This objective will be achieved through various archival, field, and laboratory procedures that are designed to gather data throughout the course of the proposed archaeological investigations in a controlled, scientific, and standardized manner. Concerted efforts will be made to ensure that the sites' NRHP characteristics, namely the data contained within their intact archeological deposits, are accurately recorded.

Because archeological excavations will inevitably result in the disturbance of the physical composition of the site and the removal of data from their original contexts, considerable attention will be given throughout the field investigations to acquire descriptive data which can be used to reconstruct the physical (natural and human) landscapes of the site area contained within the Dunkirk Park and Ride project's Area of Potential Effect (APE). Scientific observations will be made regarding the physical characteristics of the site areas including topography, natural stratigraphy, landform, vegetation, soil characteristics, deposition of material culture across the landscape, and physical traits of cultural features (e.g., stratigraphic composition, dimensions, elevation, evidence of alteration, construction techniques, and the material culture contained therein).

Thorough descriptive scientific documentation of the site's physical aspects that cannot be relocated to the laboratory environment will also be prepared for the documentary record. Moreover, because the manner in which the archaeological data is extracted represents an integral part of archaeological inquiry, a scientific account of the methods employed will also be prepared for the documentary record. In sum, the role of data description in the field investigations will be to provide a scientific, documentary representation of the site environment, the scientific methods employed to study the site, and most importantly, the archeological context from which site data was extracted.

Data description of laboratory analyses will entail the scientific reporting of the methods of and data resulting from laboratory procedures. These efforts will include documentation of variables (e.g., quantities, physical character traits, functional types and uses) that are examined and tabulated during artifact/ecofact identification, as well as descriptive recordation of recovered material culture prior to its modification (e.g., weights of samples submitted for testing, or condition of artifacts prior to stabilization/conservation). Results from scientific testing, such as

statistical scores and tabulated distributions will also be compiled for the documentary record. In sum, the role of basic data description of the laboratory analyses is to provide an account of the analytical data housed at the site for the documentary record.

2. Cultural Interpretation

Because of its objective nature, basic data description of the site will provide the scientific basis for later analytical inferences. While the reporting of "raw" data is indeed an integral part of the investigations proposed in this Work Plan, the investigations will be performed with the intent to reconstruct and interpret the cultural and ecological use of 18Cv491 and 18Cv492.

The significance of the sites lie in their ability to provide information that can be used to examine the dynamics of Woodland Period regional lifeways at interior wetland settings. Both sites have considerable potential for providing new information from intact, subsurface archeological contexts that can be used to examine lithic technologies, resource procurement and utilization, as well as habitation activities. Site 18Cv492 may also have a potential for yielding information about prehistoric ceramic technologies; however, due to the small Phase I/II sample size, the potential for ceramic artifact analysis is currently unknown.

It has long been recognized that small, short-term procurement/processing sites and small base camps were an integral part of regional settlement patterns (Steponaitis 1979, 1983; Dent 1995; Custer 1983, 1984, 1986, 1989, 1994, 1996). While many sites like 18Cv491 and 18Cv492 have indeed been noted throughout the Middle Atlantic region, to date, thorough analyses of such sites in Calvert County have been limited (Steponaitis 1979, 1983; MHT site files). Examinations of 18Cv491 and 18Cv492 will greatly assist in understanding the role small, limited use sites and base camps in interior wetland settings in this portion of Maryland's Western Shore.

Given their proximity to one another and importantly, their locations along the same waterway (as well as general landform), it is clearly recognized that 18Cv491 and 18Cv492 may represent segmented remains of what was once a larger site. Considering the differences in the Phase I/II artifact assemblages from the two sites, it is quite possible that 18Cv491 and 18Cv492 may represent functionally different, discrete activities of a larger site, most of which has since been destroyed due to natural erosion and flooding processes. It is also possible that 18Cv491 and 18Cv492 represent different occupations of a former, much larger, multi-component site.

In recognition of the research potential of the collective site data, this research design has been developed in a manner to facility comparative inter- and intra-site analyses. These analyses will be conducted by striving to identify differences and similarities amongst the 18Cv491 and 18Cv492 datasets.

A discussion of the specific research issues and topics that will be explored will be presented later in this Work Plan

B. Summary of Primary Objectives

Thus, the two primary objectives of the proposed Phase III archeological data recovery of 18Cv491 and 18Cv492 can be summarized as follows:

1. To create an accurate documentary record of the sites and their characteristics, namely those relevant to their NRHP-eligibility.

2. To reconstruct and interpret the cultural use of the sites and their place in regional prehistoric contexts.

III. RESEARCH ISSUES

To achieve the second primary objective, several site-specific research issues have been developed for the sites. Overall, the data recovery investigations of the sites will strive to address various research issues pertaining to:

- the functional uses of the sites,
- lithic technologies practiced at the sites,
- the role of the sites in regional settlement patterns.

A. Functional Use

Given their small areal size and relatively low artifact densities, it is clear that 18Cv491 and 18Cv492 are the remains of short-term habitation locales. While the temporal context of 18Cv491 continues to remain unknown, the Phase I/II results have already provided a sufficient level of information to suggest that 18Cv491 and 18Cv492 may have been utilized for different reasons. Consequently, one of the key research issues will be to determine for what purpose were the sites used.

At 18Cv491, reuse of the site, if any, appears to have been very limited. The low variation of artifact types within its assemblage also implies that the diversity of activities performed at 18Cv491 was also quite limited.

Although the Phase I/II excavations of 18Cv492 yielded less artifacts than 18Cv491, the excavations did yield ceramic sherds, an artifact type that is commonly associated with sites with more generalized and sedentary occupations. While the Early and Middle Woodland functional uses of 18Cv492 have yet to be determined, these artifacts suggest that length of stay at 18Cv492 was probably longer than that at 18Cv491 and that more activities associated with daily

subsistence were performed at 18Cv491 than at 18Cv492. The recovery of two temporally different ceramic wares also indicates that 18Cv492 was subjected to repeated use.

To explore the functional uses of 18Cv491 and 18Cv492, the investigations will strive to deduce if one or both sites served as locales focused around a specific type of procurement/processing activity or if they served as small, more generalized encampment sites. It is expected that each site will yield data that can be used to deduce the types of activities that were performed therein. It is also expected that comparisons of artifact and feature distribution patterns will provide information that can be used to address any spatial and temporal relationships amongst 18Cv491 and 18Cv492.

Examinations of the functional uses of 18Cv491 and 18Cv492 will strive to support or refute the following basic hypotheses:

H. Although the uses of the sites may have differed, both sites were inhabited for a relatively short period of time.
H. The length of stay at 18Cv492 was probably longer than that at 18Cv491.
H. Site 18Cv491 and 18Cv492 may represent two discrete activity areas of a larger site.
H. The overall functional use of the sites and types of activities performed therein are reflected in their artifact assemblages.
H. Site 18Cv491 served as a procurement/processing locale and/or at most, a generalized, temporary encampment.
H. Site 18Cv492 was probably used as a small base camp.
H. Site 18Cv492 was subjected to repeated use and that at different times, the functional use of the 18Cv492 may have varied.
H. Datable artifact assemblages from 18Cv492 reflect differences and similarities in the functional use of 18Cv492 through time.

For this exercise, the following questions have been formulated:

- Do the sites contain discrete activity areas or features (horizontal or vertical)?
- How are the activity areas or features represented in the archeological record?
- What forms of data (e.g., artifacts, structural characteristics, field carbon, floral/faunal remains, stratigraphy, etc.) can be used to determine when and what activities occurred.
- Do the sites contain a broad range of artifact types or are only certain artifact types present?
- What site activities are reflected in the artifact assemblages?
- How are artifacts and features distributed across the site?
- Does the site data suggest that a variety of activities were performed or does it suggest that only a few, highly-specialized activities were conducted?
- Can the represented site activities be attributed to everyday subsistence or are they task-specific?
- How do site distribution patterns (artifact and feature) reflect change in or continuity of site use?

- Which site characteristics provide insight into the length of stay at the sites?
- Which site characteristics suggest use as a procurement/processing locale?
- Which site characteristics suggest use as a base camp?

1. Use of 18Cv491 as a Procurement/Processing Locale

Currently, it is believed that 18Cv491 functioned as a procurement/processing site. As such, researchers expect that features and artifacts therein will be limited in both quantity and variability.

In general, a procurement/processing site is a locale at which a limited number of activities were conducted for the purpose of extracting resources and energy from the immediate environment. These resources may include raw materials for tool manufacturing or foodstuffs.

Although the presence of small hearth, refuse, or even storage pit features at procurement/processing stations is not unusual, for the most part, the features and the artifacts at procurement/processing stations tend to reflect the performance of task-specific activities over those associated with everyday subsistence. Such features may be expressed in the archaeological record less as pit features, but instead as artifact concentrations. Feature types common to procurement/processing stations include tool-manufacturing/chipping features or staging areas.

Procurement/processing stations are also unlikely to house pit- or household cluster-type features (Custer 1994, 1989, 1983, 1984, 1986). Since visits to procurement/processing sites were conducted for specific purposes, the variation of artifact types within the artifact assemblages, especially tool types, tend to be limited. Due to their short-term use, these sites tend to yield low quantities of general household debris, especially fire-cracked rock, (Steponaitis 1983; Custer 1983, 1989, 1994).

Given the absence of any readily-abundant, lithic resources in the immediate vicinity, it is highly unlikely that the results of the data recovery excavations will reveal that 18Cv491 (or 18Cv492) is a quarry-related site type. Instead, it is expected that more likely that site studies will reveal that 18Cv491 was associated with floral and/or faunal utilization.

Artifact types found at non-lithic procurement/processing sites commonly include debitage from the manufacturing of tools made on-site for expedient use, as well as the discarded tools themselves. Utilized flakes and flake tools manufactured from local materials often comprise large proportions of tool assemblages recovered from both butchering and plant processing sites.

While it is not unusual to find a small handful of ceramic sherds, vast ceramic assemblages are infrequent at these more ephemeral sites due to the degree of mobility maintained by the site's inhabitants (Steponaitis 1983; Custer 1983, 1984, 1986, 1989, 1994; Dent 1995)[1]. By comparison, sites associated with the acquisition of floral resources tend to yield ceramic artifacts more often than those associated with procurement/processing (e.g., butchering) of faunal resources.

[1] It is possible that the data recovery investigations could reveal that 18Cv492 was not a base camp site, but instead an example of a procurement/processing site at which a limited amount of ceramic vessels were utilized.

Groundstone tools and edge-ground cobbles are also common artifact types found at plant resource processing sites.

Currently, it is anticipated that 18Cv491 will contain one to three discrete activity areas. If 18Cv491 did indeed center around a specific procurement/processing activity, one can expect that artifacts associated with that activity would prevail within its assemblage. While the types of resource procurement/processing activities performed at 18Cv491 have yet to be determined, it is expected that most of the site's stone tool assemblage will consist of utilized flakes and flake tools. Exhausted cores and cobbles from which one or two flakes were removed for expedient use are also expected artifact types for 18Cv491. Tabulation of traditionally-recognized tool forms (e.g., side/end scrapers, awls/burins; spokeshaves) coupled with use-wear patterns may reveal whether the tools were applied to floral or faunal resources. Recovered ecofacts, such as preserved floral remains or bone may reveal the floral and faunal species utilized by the site's inhabitants. Floral remains may also provide information on the seasonal use of the site.

2. Use of 18Cv492 as a Base Camp

Regional research has also shown that small base camps, or transient camps, were often established in small interior wetland settings similar to the Dunkirk Park and Ride project APE (Steponaitis 1983, 1979; Custer 1983, 1984, 1986, 1989, 1994, 1996; Dent 1995). While by no means as extensive, like large base camps, these small habitation sites often contain the same range of features and artifacts associated with everyday subsistence. In general, a small base camp tends to encompass an area less than 0.5 hectares (~5,000.7 sq. m) in size and, unlike larger base camp sites, is usually situated in settings which tend to be limited in their carrying capacity, such as along low-order drainages (Steponaitis 1983; Custer 1983, 1986, 1989, 1994; Dent 1995). Intended for use by small family units or only limited sets of family units, these small habitation sites are suspected to have served as temporary "hubs" for longer forays (Custer 1994, 1996).

As noted earlier, the recovery of ceramic sherds and fire-cracked rock, albeit in limited quantities, suggest that 18Cv492 was probably a small base camp site. Consequently, it is expected that a variety of features, artifact types, and activities will be well-represented at the site. Most importantly, it is expected that the site's data will reflect performance of everyday subsistence activities such as general tool maintenance and food preparation.

Base camps of the Late Archaic through Late Woodland Periods tend to contain a diversity of house features, hearths, refuse pits, storage pits, post holes, and activity areas (Custer 1989, 1996). Occasionally, remains of an "individual household cluster", a combination of features consisting of a house and its associated storage/processing features (Custer 1989, 1994, 1996; Custer and Silber 1994), may be found at small base camp sites. While large base camps may contain numerous features and household clusters, smaller base camps tend to contain only a limited quantity of features, and at most, one or two household clusters (Custer 1989, 1994).

Like the features, a diversity of artifacts can be contained within a base camp site. In addition to debitage and a broad variety of stone tools, common artifacts from base camp sites of all sizes include ceramic sherds from vessels used for cooking or storage purposes, as well as fire-cracked

rock from hearths. Plant processing tools, such as mortar and pestles, are also often found at base camp sites. While the range of tool types and feature types approximates those of large base camp locales, the numbers of these traits are significantly less than those found at sites which supported a large number of households.

Obviously, the recovery of Early and Middle Woodland ceramic sherds indicates that 18Cv492 was subjected to repeated use. In the Phase I/II assemblage, the Early Woodland Period (Accokeek = 17) is better represented than the Middle Woodland Period (Mockley = 3). However, due to the small sample size, little can be said about any corresponding site representations at this time.

While functional (and temporal) differences may be as blatant as that 18Cv492 was utilized as a procurement/processing station during one occupation and a small transient base camp during another, it must be recognized that functional uses may be as subtle as procurement/processing of different resources. Regardless, discernable changes in the functional use of 18Cv492 will provide valuable information regarding the types of subsistence strategies practiced during the represented time periods.

Therefore, one of the goals of the 18Cv492 data recovery investigations will be to ascertain how many times the site was used, assess the spatial distribution of the various occupations, and more importantly, to ascertain the uses of the site during its various occupations.

Based on the findings of the Phase I/II investigations, it is expected that 18Cv492 will contain components dating to the Early-Middle Woodland Period and that these components will be discernable by examining the vertical and horizontal organization of the site.

It is expected that discrete activity areas, manifested as artifact concentrations or pit features, will be discovered at the site. Obviously, associated diagnostic artifacts from these activity areas will indicate when these activities were conducted; however, examination of the artifacts and ecofacts contained therein, will serve to ascertain the types of activities that were conducted.

Due to its small aerial size, it is not anticipated that 18Cv492 will yield numerous house, hearth, storage, or refuse features; however, it is possible that one or two features characteristic of small base camps or maybe even remains of a household cluster-type feature may be contained at 18Cv492.

B. Lithic Technologies

Obviously, the recovery of debitage at 18Cv491 and 18Cv492 indicate that lithic reduction was an activity performed at the sites. Since most of the recovered site assemblages will likely consist of chipped stone artifacts, a large portion of the site studies will entail lithic artifact analyses. Given the suspected uses of 18Cv491 and 18Cv492, it is expected that the sites' lithic assemblages will reveal that activities associated with general toolkit curation and the manufacturing of expedient tools were conducted.

If indeed the sites served as locales where general toolkit maintenance was performed, the lithic assemblage will contain debitage associated with tool resharpening and kit refurbishing such as small flakes with multiple flake scars, flakes with remant biface edges, as well as broken flakes. Discarded, exhausted tools can also be expected.

Studies of the lithic assemblages from 18Cv491 and 18Cv492 will also be performed in order to examine the stone toolmaking technologies that were practiced by the sites' past occupants. To explore the lithic technologies represented at the site, the investigations will strive to deduce the methods by which the lithic artifacts were made.

Examinations of the lithic technologies of 18Cv491 and 18Cv492 will strive to support the following basic hypotheses:

H. The lithic technologies practiced at the sites will be reflected in the lithic assemblages.
H. Methods of lithic reduction will be apparent in the site data.
H. Specific reduction stages (e.g., reharpening, early reduction, or late stage reduction) will be apparent in the site data.

For this exercise, the following questions have been formulated:

- Are the lithic artifacts results of core or biface reduction, or both?
- What stages of lithic reduction are represented in the site assemblage?
- What tool types are found within the assemblage?
- Is there a predominance of expedient tools or highly curated tools, or are both types equally represented?
- Are the artifacts derived from local lithic sources?
- Does the debitage assemblage reflect use of primary or secondary lithic resources? Is use of both types of resource readily apparent? To what extent are non-local lithic resources represented at the site?
- Is there a predominance of a single lithic material or are many materials equally represented?
- Are there any apparent differences within or amongst the different lithic material assemblages (e.g. manufacturing technologies, stage of reduction, tool types)?
- Does the lithic assemblage reflect toolkit refurbishing or culling?
- How does the lithic assemblage reflect site usage?

One of the major studies that will be performed on the lithic artifact assemblage will be to discover whether the debitage of the site originated from bifaces or unifacial cores. During biface reduction, emphasis is placed on maintaining the biface, whereas in core reduction activities, creating flakes for use as tools is a primary goal.

It is expected that attributes exhibited on debitage will reveal the types of lithic reduction activities that were performed at the site. Flake attribute analysis studies will allow researchers to examine

the tool production activities that occurred. Flake sizes and characteristics will reveal the stages of lithic reduction and the materials used. For example, a large proportion of small flakes with numerous scars could indicate that late stage lithic reduction or tool resharpening activities were prevalent at the site. In contrast, a high percentage of large flakes with cortex and few scars within the assemblage may imply that early stage lithic reduction activities were performed at the site. Examinations of lithic artifact type variation in the assemblage will also provide information regarding the site's past use. Tabulation of lithic material types and the flake attributes therein will reveal the stages of lithic production during which the debitage was derived (e.g. primary, secondary, tertiary). A high percentage of discarded worn and broken curated tools could be indicators that toolkit culling was performed at the site.

Studies by Verrey (1986), Magne (1981, 1985), and Gunn and Mahula (1977) have identified several attributes which can be used to reconstruct knapping activities. While an individual flake is by no means definitive, trends in flake assemblages can be used as means for inferring lithic reduction activities that occurred at the site. For example, if core reduction techniques were practiced at the site, the debitage assemblage is likely to contain higher proportions of complete flakes and flakes with flat striking platforms. Flakes struck from cores also tend to exhibit less flake scars and less scar directions per flake than on flakes that originated from bifaces. Tabulation of other variables such as the presence/absence of cortex, and flake size can be used to discern during what stage of lithic reduction (e.g., decortication, primary reduction, thinning, shaping/retouching, or resharpening) the flake was removed.

Several factors, such as group mobility, lithic resource availability, and usage, were influential in the lithic technologies of prehistoric groups. For instance, biface and prepared core techniques were commonly practiced by groups that maintained a high degree of mobility and by groups living in areas with limited raw lithic material resources. In contrast, groups with easy access to raw lithic resources, either primary (i.e., outcrops) or secondary (i.e., cobble beds), often practiced more amorphous core reduction techniques. Thus, ascertaining whether or not biface-, unifacial prepared core-, or unifacial amorphous core- reduction activities are represented at a site can often yield valuable information regarding regional lithic procurement patterns.

Like many sites, it is expected that analyses of the lithic artifacts will reveal that a variety of lithic reduction methods were indeed practiced at both 18Cv491 and 18Cv492. Despite this expectation, given the recovery of utilized flakes and flake tools, and suspected use of 18Cv491, it is anticipated that lithic studies will discover that much of the debitage at 18Cv491 is the result of core reduction activities.

Although most of the lithic artifacts from 18Cv491 and 18Cv492 are made of local cobble materials (i.e. local cobble chert, jaspers, and quartz), other lithic materials are also present. Study of this site will provide information that can be used as comparative material for understanding the movement and use of lithic materials in the region.

C. Role in Regional Settlement Patterns

Ultimately, the data collected from 18Cv491 and 18Cv492 can be used to address broader patterns of prehistory. It is anticipated that comparisons of the sites (individually and collectively) to contemporaneous sites will allow for the identification of known Woodland Period trends that are, or are not, represented at 18Cv491 and 18Cv492. From a regional perspective, the results of intra-site comparative analyses are of archaeological interest since little is known about the Woodland Period of the more interior portions of Calvert County.

In addition to filling in gaps in existing databases, evaluations of differences, similarities, and anomalies amongst the sites may result in the identification of Woodland Period characteristics that are unique to the region. Importantly, such efforts will enable researchers to explore the role of low-order, interior wetland settings in Woodland Period group movement activities and subsistence strategies along Halls Creek, as well as Maryland's Western Shore as a whole.

In accordance with existing documented datasets and established models of archeological research (e.g., Steponaitis 1983), comparative analysis will entail cross-examinations of quantitative data (e.g. artifact and feature assemblages), environmental variables associated with siting (e.g. setting, elevation, and aspect), as well as site interpretations pertaining to seasonal usage and site carrying capacity. Discernable distribution patterns of site and artifact types may also allow for preliminary delineation of site catchment areas.

For example, tabulation of raw lithic materials, especially non-local materials, within site assemblages could provide insight on lithic procurement and curation practices of Maryland's Western Shore. The recovery of three rhyolite flakes in association with cobble quartz and quartzite flakes from 18Cv491 already provides a glimpse into regional lithic procurement practices. While secondarily-deposited rhyolite can be found in cobble beds on the Western Shore, such occurrences are generally considered rare (Jordan 1964).

Despite their small sample sizes, the Accokeek and Mockley ceramic assemblages from 18Cv492 clearly demonstrates that the site contains Early and Middle Woodland Period occupations. Consequently, it is also anticipated that the site will yield a sufficient amount of data that will allow for diachronic, intra-site comparative analysis of siting and resource utilization. Identification of the differences and similarities between the two components of 18Cv492, as well as other regional Early and Middle Woodland sites, can be used to examine some of the more subtle shifts in adaptive strategies. Site 18Cv492 is of additional regional interest because its two occupations also coincide with periods of change within the Early and Woodland Periods.

Throughout the Middle Atlantic region, studies have demonstrated that the Early Woodland Period coincides with an increase in the gradual trend toward sedentism. Most of the changes consisted of subtle shifts in subsistence-settlement strategies associated with increased usage of stable estuarine and riverine settings, a trend which began during the later portion of the Late Archaic Period (Dent 1995; Custer 1994; Steponaitis 1983). Two notable characteristics of the

Early Woodland Period include increased usage of plant resources and the development of ceramic vessels.

In addition to variations in artifact assemblages, increases in extensive use of stable, productive, and localized estuarine and riverine resources during the Early Woodland Period is quite evident in site distribution patterns. On Maryland's Western Shore, both the frequency and density of sites with Accokeek components are higher than those of sites that date to earlier cultural traditions such as the preceding Late Archaic/Early Woodland fishtail tradition (ca. 1,500 B.C. – 750 B.C.) (Steponaitis 1983). In Steponaitis (1983), site densities for fishtail and Accokeek components in the Patuxent River drainage were estimated at 1.0 and 4.9 square kilometers, respectively. While the co-occurrence of Late Archaic and Early Woodland occupations along the shoreline of the Patuxent River is not unusual, the number of sites recorded along the more interior portions of waterways that drain into the river are substantially higher. On the Western Shore, concentrations of sites with Accokeek components have been recorded within the Hunting Creek and Caney Creek drainage basins. A small cluster of Accokeek sites have also been recorded along the Patuxent River near St. Leonards Creek.

Aside from variations in point and ceramic ware styles, overall, sites that date to the earlier portion of the Middle Woodland Period, namely those associated with the Pope Creek (400 B.C. – A. D. 200) phase, tend to be similar to sites of the Early Woodland Accokeek phase. Overall, regional site distribution patterns of the Popes Creek phase indicate a stronger adaptation to estuarine environments, especially brackish settings; however, due to the low site densities, this trend is not particularly reflected in the data from the Patuxent River drainage (Steponaitis 1983).

In the Patuxent River drainage, discernable differences between Early Woodland and Middle Woodland adaptive strategies are more apparent when sites that date to the Selby Bay (A.D. 200 – A.D. 900) phase of the Middle Woodland Period are taken into consideration. For example, the ratio between larger and smaller Selby Bay sites is less than late-Early/early-Middle Woodland Period sites. In Maryland, the transition between the Popes Creek and Selby Bay phases of the Middle Woodland Period coincides with shifts from a settlement pattern of one large site supported by several sites to one of numerous large and smaller sites. Similar shifts in settlement patterns have also been identified in other Middle Woodland archeological datasets of the Middle Atlantic Region. Collectively, these shifts have been attributed to factors ranging from rises in population, the stabilization of select environmental settings, as well as the intensification of horticulture practices.

In addition to Mockley ceramic variants, like the sherds recovered from 18Cv492, Selby Bay phase artifact assemblages also often reflect a preference for non-local lithic materials such as rhyolite, argillite, and jasper.

Although 18Cv492 did yield ceramic artifacts, the site's small aerial size and limited assemblage strongly suggest that its Early Woodland occupation and Middle Woodland occupation were not particularly intense. Based on existing archeological models (e.g., Steponaitis 1983, Dent 1994; Custer 1995) and the site's interior setting and siting along a low-order drainage, 18Cv492 probably served, at most, as a small base camp for one or two family units. It is also possible

that 18Cv491 and 18Cv492 are sites associated with plant resource processing or procurement. If site visitation was for the acquisition of plant resources, the sites could provide insight on seasonality, horticultural technologies, as well as environmental changes.

The Phase I/II results strongly suggest that 18Cv492 is stratified. As such, it is expected that the site's individual temporal components will be discernable and that each component will provide uncompromised data well-suited for intra-site diachronic studies. The results of data analysis may reveal that the functional and/or seasonal use of 18Cv492 was different, or the same, during the Early and Middle Woodland Periods. For example, shifts in site usage may be reflected in siting, specifically the arrangement of activity areas/features across the landscape, or variation in artifact/ecofact assemblages.

IV. SCOPE OF WORK

The following discussion presents a technical discussion of the proposed work. The proposed work efforts involve documentary research, field investigations, laboratory/data analysis, preparation of final project documentation, and public outreach efforts. In addition to detailing the work as proposed in this SOW, the documentation will include the results of the Phase I/II work completed previously at 18Cv491 and 18Cv492.

The documentary research, field investigations, and laboratory analyses presented in this SOW have been designed to acquire data. The data gathered by these methods will be used to address the various research issues as presented in the Research Design. The final project documentation is designed to provide a documentary record of these efforts.

A. Field Investigations

The following presents a detailed discussion of the data recovery excavations to be performed at 18Cv491 and 18Cv492.

1. General Excavation Strategy

The first step will entail the acquisition of a representative horizontal sample of each site. This work will entail the hand excavations of controlled 1- by 1- meter test units (or the quantitative equivalent thereof and landscape permitting) across each site. The test excavations will be conducted within the 10-meter site grid established during the Phase I/II survey. One test unit per 10-meter square grid block will be excavated. The two Phase I/II test units (one at each site) will be regarded as the 10-meter grid sample unit for their respective 10-meter square blocks (**Figure 4** and **Figure 5**).

Although the proposed test units will be performed in a basic uniform grid pattern, these excavations will target on acquiring representative samples of site areas that are most apt to

contain well-preserved, intact archeological deposits. The placement of test units within each 10-meter square block will be at the discretion of the Principal Investigator. The Phase I/II artifact densities will also be taken into consideration. Contiguous test unit excavations may be undertaken to expose the limits of discrete subsurface features.

After the controlled 10-meter grid sampling, a series of block excavations will be conducted at each site. The ranking and selection of block excavation locations will be based on the combined results of the Phase I/II survey and 10-meter square block test unit sampling. Site areas that yield high artifact concentrations from intact, well-preserved cultural horizons will be given highest priority. Block excavations will be performed via the hand excavation of contiguous 1- by 1-meter test units.

Excavation Strategy for 18Cv491. To date, approximately 5.5 square meters of 18Cv491 has been sampled. Based on the Phase I/II survey results, it is estimated that the core area of 18Cv491 encompasses approximately 900 square meters in the south half of the site. Approximately four square meters of the core area of 18Cv491 has been sampled.

The core area of 18Cv491 contains two known artifact concentrations. These concentrations are centered around TU N34E15, which yielded 46 prehistoric artifacts and STP N30E30, which yielded 14 prehistoric artifacts. Site areas to the north, south, east, and west of these proveniences exhibit substantially lower artifact densities. Aside from STP N30E30, the Phase I/II STPs, including those excavated within the sites' core area, yielded three or less artifacts each (3 artifacts = 1 STP; 2 artifacts = 3 STPs; 1 artifact = 6 STPs) (**Figure 4**).

It is estimated that a total of up to thirty-one (31) test units will be excavated in 18Cv491. The combination of these proposed TU with previous excavations will result in the acquisition of an approximate 2.4 percent sample of the total site area. At least twenty of the test units will be excavated in the core area of 18Cv491. It is estimated that the majority of the test units will not require archeological excavations deeper than 0.8 meter below the surface.

In addition to eight 10-meter grid sampling units, the data recovery excavations within the core area of 18Cv491 will include two block excavations. The block excavations will be performed around TU N34E15 and STP N30E30 due to their artifact densities. Eight test units will be configured in a 3.0- by 3.0-meter trench, centered on TU N34E15. Four test units will be configured in a 2.0- by 2.0-meter trench, centered on STP N30E30 (**Figure 4**).

The proposed thirty-one test units include six discretionary test units. These six test units will be placed elsewhere within 18Cv491 to explore other areas of high artifact concentration and/or expose cultural features. The locations of the six test units will be selected at the discretion of the Principal Investigator.

To summarize, the thirty-one test units will be distributed across 18Cv491 as follows:

10-meter grid TU sampling	=	13	TUs (8 in core area, 5 in non-core area)
Block Excavation, TU N34E15	=	8	TUs

Block Excavation, STP N30E30	=	4	TUs
Discretionary TUs (TBD)	=	6	TUs
Estimated Total	=	31	TUs

Excavation Strategy for 18Cv492. Approximately five square meters of 18Cv491 has been sampled. The Phase I/II survey results indicate that the core area of 18Cv492 is centered around N10E80 and TU 1 (~N8E77). It is estimated that the core area of 18Cv492 encompasses approximately 25 square meters (5m x 5m). This core area was identified based on the recovery of thirty-six prehistoric artifacts (STP N10E80 = 10; TU 1 = 26) (**Figure 5**).

Due to their high artifact yields, the data recovery excavations will include block excavations around STP N10E80 and TU 1. Four test units will be configured in a 2.0- by 2.0-meter trench, centered on STPN10E80. Eight test units will be configured in a 3.0- by 3.0-meter trench, centered on TU 1. If warranted, discretionary units will be excavated to connect the two trenches.

It is estimated that a total of up to twenty-four (24) TUs will be excavated in 18Cv492. The combination of these proposed TU with previous excavations will result in the acquisition of an approximate 5.5 percent sample of the total site area. At least fifteen of the TUs will be excavated in the core area of 18Cv492. It is estimated that between eight and ten of the proposed 24 test units may require archeological excavations deeper than 1.0 meter below the surface (~1.2 meters) (**Figure 5**).

The proposed twenty-four test units also include four discretionary test units. These four test units will be placed elsewhere within 18Cv491 to explore other areas of high artifact concentration and/or expose cultural features. The locations of the four test units will be selected at the discretion of the Principal Investigator.

To summarize, the twenty-four test units will be distributed across 18Cv492 as follows:

10-meter grid TU sampling	=	8	TUs (3 in core area, 5 in non-core area)
Block Excavation, STP N10E80	=	4	TUs
Block Excavation, TU 1	=	8	TUs
Discretionary TUs (TBD)	=	4	TUs
Estimated Total	=	24	TUs

2. Geomorphological Study

The field investigations will include a geomorphological study of each site. The study will be performed with the intent to accurately verify the sites' vertical and horizontal limits, assist with the identification/delineation of individual cultural substrata at each site, and address site formation. The geomorphological study will be conducted by the project's designated geomorphologist (Dr. Daniel Wagner, Geo-Sci Consultants) during the early stages of the field studies. Geomorphological fieldwork will be conducted via a combination of pedestrian and augering techniques. Profiles exposed by TUs will also be examined. If warranted, the

geomorphological study will also involve augering below the last excavation level within TUs in order to confirm the depth of culturally sterile subsoils. Wetland areas, as well as areas with obviously little to virtually no archeological probability, within the overall project APE will also be subjected to examination as a scientific control measure.

3. General Excavation Provisions

In order to maintain horizontal and vertical control, standardized field methods will be implemented throughout the course of field investigations. To maintain consistency with the Phase I/II excavations, archaeological work will be performed within the Phase I/II metric-unit grid system.

Archaeological excavations will be keyed in to the standardized transit-established x-y-z grid system which was established during the Phase I/II survey of the site. Cultural features will be surveyed into the transit-established system.

All test units and features will be subjected to hand excavation. Any contiguous test unit excavations, such as the aforementioned excavation trenches, will be performed via block excavation. All test units will be excavated by level. Alluvial soil horizons and/or plow disturbed horizons will be excavated and screened as a single level in its entirety within each unit.

Test unit excavations of intact soils below the modern alluvium/plow zone will be performed by 0.50-meter quadrants. It is currently anticipated that the quadrant excavations will begin at the buried A horizon; however, quadrant excavations may be initiated earlier or later based on field observations. All soils beneath the modern alluvium/plow zone soils will also be excavated in arbitrary 10-centimeter (~ 0.3-foot) levels or by natural levels, whichever occurs first. These efforts will be performed with intent to carefully identify less obvious features, such as activity areas, which are housed within the intact artifact-bearing subsoils. Test unit excavations will continue until two consecutive 10-centimeter levels of culturally sterile soils are removed. If warranted, test excavations may be conducted in arbitrary 5-centimeter levels to increase vertical control and to better isolate cultural horizons.

If during the course of the field efforts, a discrete feature is encountered, the feature will be excavated prior to recommencing the above-noted standardized test unit excavation procedures.

Identified cultural subsurface features will be subjected to hand excavation. Features will be subjected to hand excavation after complete delineation of the feature boundaries and appropriate mapping. Cultural features discovered at the site will be subjected to complete excavation using combinations of arbitrary, cultural, and natural levels. Cultural features will be sectioned, plan-viewed, and profiled. In order to acquire control samples, a small number of non-cultural features may also be subjected to excavation.

For discrete features extending over large areas, excavations will be conducted via contiguous test units within the grid to allow for recordation of profiles at select points across the feature. Following recordation of stratigraphic data, the remainder of these features will be excavated through block excavation of contiguous test units. Smaller features, such as postmolds/post holes, will be cross-sectioned and excavated in halves to reveal cross-section profiles and ascertain any

internal stratification. Should internal stratigraphy be noted in any of the features, the remaining portion of the feature will be excavated by natural (cultural) levels. Like the standardized test unit procedure, if a natural level exceeds 10 centimeters in thickness, the feature excavation will be conducted in arbitrary 10-centimeter levels or to natural soil changes, whichever is encountered first. Thorough mapping and photographing of each cultural feature will be conducted during the course of archaeological excavations.

In any test unit that yields prehistoric artifacts but is devoid of discernable cultural features, controlled excavations will continue until culturally sterile subsoil are confirmed (two consecutive 10-centimeter culturally sterile excavation levels).

Throughout the course of the archaeological fieldwork, measures will be undertaken to ascertain the depositional context of cultural material. Cultural material noted to be *in situ* will be mapped, photographed, and recorded accordingly, prior to excavation.

Soils removed during archaeological investigations will be dry-screened through 1/4-inch mesh.

Appropriate test unit sampling of areas contained within post hole patterns will be conducted. When warranted, areas amongst other feature cluster types may also be subjected to archaeological testing.

During the course of excavations, appropriate carbon, soil, and flotation samples will be collected. If warranted, soil samples from select portions of the site will be subjected to soil chemical element testing and/or flotation analyses. One-liter soil samples of each feature shall be retained and submitted for flotation analyses, if warranted. Soil samples of artifact-bearing, non-feature soils will also be collected. Depending on the excavation results, these soils may be submitted for flotation or chemical testing as deemed necessary. When warranted, additional soil samples will be collected in order to acquire control samples or to investigate unusual anomalies observed during the course of field investigations.

Cultural materials recovered from field excavations will be bagged by provenience. During the course of excavations, precautions will be taken to facilitate conservation efforts of recovered artifacts.

Throughout the course of field excavations, detailed stratigraphic and plan view mapping of test units and features will be recorded on standardized field forms, and on black and white and color slide photographic films. Photographs taken on site will contain provenience information, north arrow, and scale. Base line maps of the site will be generated and regularly updated throughout the duration of the field investigations. A daily field journal detailing the progress of field investigations, findings, and initial impressions will be maintained by the Principal Investigator.

During the end stages of the field investigations, McCormick Taylor will hold an end of fieldwork site visit with the MTA and MHT. The purpose of the site visit will be to review the field investigations, present preliminary results, and discuss project documentation (management summary and final documentation).

A management summary that presents a summary of the field investigations and preliminary results will be prepared and submitted to the MTA after completion of the field investigations.

B. Laboratory/Data Analysis

Laboratory processing will consist of the cleaning, inventorying, and preparation for storage of all artifacts recovered during field excavations. Artifacts will be washed, marked, sorted, and packed for eventual curation to the Maryland Archeological Conservation (MAC) Laboratory in accordance with procedures developed by the MHT (MHT 2005). A catalog of the artifacts pursuant to systems established by the MHT will be generated. The artifact catalog nomenclature, content, and format will meet MAC standards. Appropriate analysis of the archival, field, and laboratory will then be undertaken.

Review of documentary materials will be performed in order to supplement such work that has been completed for the sites to date. Supplemental documentary research will be conducted as needed to assist with site interpretation.

Laboratory analyses of recovered artifacts/ecofacts and field data will be used to generate data which, with information collected through documentary research, will be used to make analytical inferences of the functional and temporal uses of 18Cv491 and 18Cv492.

Working databases of features, test locations, and structures will be constructed from field data. Survey data, field measurements, and provenience information will be converted to digital formats. Results of these efforts will be used to create digitally-rendered base maps of the site area. Both two- and three-dimensional plots of the site will be generated. These maps will be used to facilitate interpretation of the site layout. Data collected from laboratory and analytical procedures will be recorded on standardized forms. Hard and electronic databases of artifact inventories and derived data will be maintained. Artifact inventories will be organized by provenience.

Following initial inventorying, systematic tabulation of recovered material culture assemblages will be conducted. Distribution and frequency studies of material culture assemblages and appropriate material culture sub-assemblages of the site will be performed. The intent of these exercises will be to identify variability, quantity, and trends amongst the tabulated data.

Artifacts with well-established date ranges will be used to calculate appropriate “terminus ante quem” (TAQ - date before which) mean, and "terminus post quem" (TPQ - date after which) dates for site areas. These data will further contribute to reconstructing the chronological sequence of the site. The data will provide assistance in discerning the temporal contexts of the features, and activity areas of the site.

Prehistoric artifacts will be sorted by lithic material and formal types. Functional uses of the artifacts will also be addressed. Site chronologies of site use based on diagnostic artifacts will be generated.

Edge-wear analysis of lithic tools will be performed using low and high power magnification. Lithic tools recovered from intact contexts may be tested for potential blood and bone collagen residues. In order to test the validity of the test results, control samples would also be subjected to blood residue/bone collagen testing.

Contingent upon the data, flake attribute analyses will be performed on samples of the debitage assemblages in order to address issues regarding lithic technologies. Debitage will be examined for the lithic raw material, presence/absence of cortex, number of flake scars, direction of scars, size, platform shape, remnant biface edges, and platform preparation. Refits of cores and fire-cracked rock may also be conducted. The analyses of the lithic assemblage will serve to identify activities as well as regional lithic technologies represented at the site.

Prehistoric ceramic will be cataloged by standard cultural-historical types and analyzed for functional variability. If applicable, minimum vessel counts, latex molds of cordage impressions on ceramic sherds, reconstruction, and analysis of surface treatments will be performed.

Plotted distributions of prehistoric artifact types will be generated to assess artifact concentrations and activity areas within the site area.

Floral and faunal materials will be cataloged to the class, genus, and species level. Faunal material will also be sorted by skeletal element. When possible, specimen ageing and recordation of modifications to the bone, such as cut marks, gnaw marks, weathering, and evidence of burning, will also be performed. Within the faunal assemblage, the ranges of species represented and the types of meat cuts exhibited in the faunal assemblages will be tabulated.

Prehistoric artifacts and ecofact assemblages associated with manufacturing processes or production will be examined to identify the types of and levels of production technologies that were practiced at the site. Assemblages that will be subject to examination include tools, implements, by-products (e.g., debitage), and objects which have been subjected to modification as part of manufacturing/processing activities (e.g., utilized flakes). Artifacts/ecofacts exhibiting signs of purposeful alteration or modification will be examined to assess object re-use or repair techniques.

If prehistoric field carbon of good context is recovered, representative samples may be submitted for radiocarbon dating. It is anticipated that up to three samples may be submitted for radiocarbon dating.

Recovered historic artifacts will also be systematically sorted and cataloged based on their material composition (e.g., glass, ceramic, architectural, metal, personal, organic, other). Cultural materials will also be sorted and cataloged by subcategories based on color, decoration, manufacturing process, and function. Additional distinguishing characteristics observed during the cataloging processes will be recorded.

Data associated with assemblages, identified activity areas, temporal components, or combinations thereof, will be subjected to inter- and intra-site comparative studies.

Plotted distributions of appropriate data categories across the site area will be created. These data will be used, in conjunction with field and documentary data, to identify activity areas and to discern temporal contexts across the site.

During the course of laboratory analyses, appropriate statistical tests (difference-of-proportion, z-scores, t-tests, chi square, confidence intervals) will be performed to analyze quantified data during intra-site and inter-site examinations.

C. Documentation and Report Preparation

After completion of the field investigations, McCormick Taylor will prepare and submit a management summary to the MTA. This summary will contain narrative and representative graphics that provide an overview of the field investigations and preliminary results. The purpose of the management summary will be to allow MTA to seek approval from the MHT for the commencement of construction activities. Although the management summary will be submitted as a separate deliverable; work efforts for the management summary and final technical survey report will be shared as much as possible.

After the completion of the above-noted efforts, McCormick Taylor will prepare final project documentation. This documentation will include a final survey report that details the methods and results of the Phase III archaeological study; and updating of necessary MHT survey forms. Documentation will be prepared in accordance to the established MHT report guidelines. In addition to the work completed under this SOW, the final project report will include the work completed under the previous Phase I/II Survey of the Dunkirk Park and Ride project.

D. Public Outreach

Two public outreach activities have been developed for this project. These activities are public access to electronic copies of project reports and preparation of an interpretive project summary.

1. Public Access to Electronic Copies of Survey Reports

Electronic copies of the Phase I/II and Phase III technical reports, as well as the interpretive summary, will be made available for viewing and downloading via a web link from MTA's existing website. The creation and maintenance of the link will be performed by the MTA. McCormick Taylor will assist the MTA with this outreach activity by providing electronic copies of the technical reports and interpretive summary in PDF format. Project consultation with the MHT will be conducted to verify materials allowable for public access.

2. Interpretive Project Summary

As part of the public outreach effort, McCormick Taylor will develop a one-page project summary that will present the research topics relevant to the site that are of interest to the general public. The goal of the project summary will be to present project and site information in an

appealing, educational, efficient, and cost effective manner suitable for mass-distribution to a diversity of non-technical audiences.

The summary will be prepared as a short, interpretive article that presents a comprehensive overview of 18Cv491 and 18Cv492 through narrative text, graphics, and photographs. The summary will discuss the prehistoric occupations of 18Cv491 and 18Cv492, as well as their roles in the regional prehistory of the area. The summary will target an audience with a working knowledge or interest in the subject matter. Although distribution of this document will be ultimately for the general public, possible adaptation of this summary into other interpretive aids will be given full consideration during the preparation of this document.

Potential venues for distribution include newsletters/bulletins of organizations such as those prepared by local communities, historical societies, museums, local governments, community centers, avocational societies, professional societies, and special interest groups. Recommended venues include the Maryland Archeological Society, the Calvert County Historic District Commission (HDC), and the Calvert County Historical Society.

McCormick Taylor will prepare and submit a camera-ready electronic copy (PDF format) and a hard copy of the summary to the MTA.

E. Project Coordination

Throughout the work efforts, coordination with MTA and MHT project representatives will be ongoing. These efforts will include regular updates regarding the status of the work. In addition to periodic telephone, email, and written coordination, meetings will also be scheduled.

In addition to intermittent field and office meetings, the project meetings will include an end of fieldwork site visit with the MTA and MHT. The purpose of the site visit will be to review the field investigations and discuss project documentation (management summary and final documentation).

Barring unforeseen circumstances (e.g., design changes, complex cultural deposits) and based on the results of the archaeological investigations to date, it is anticipated that the completion of the work as proposed in this SOW will sufficiently mitigate adverse project effects on sites 18Cv491 and 18Cv492.

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FIGURES

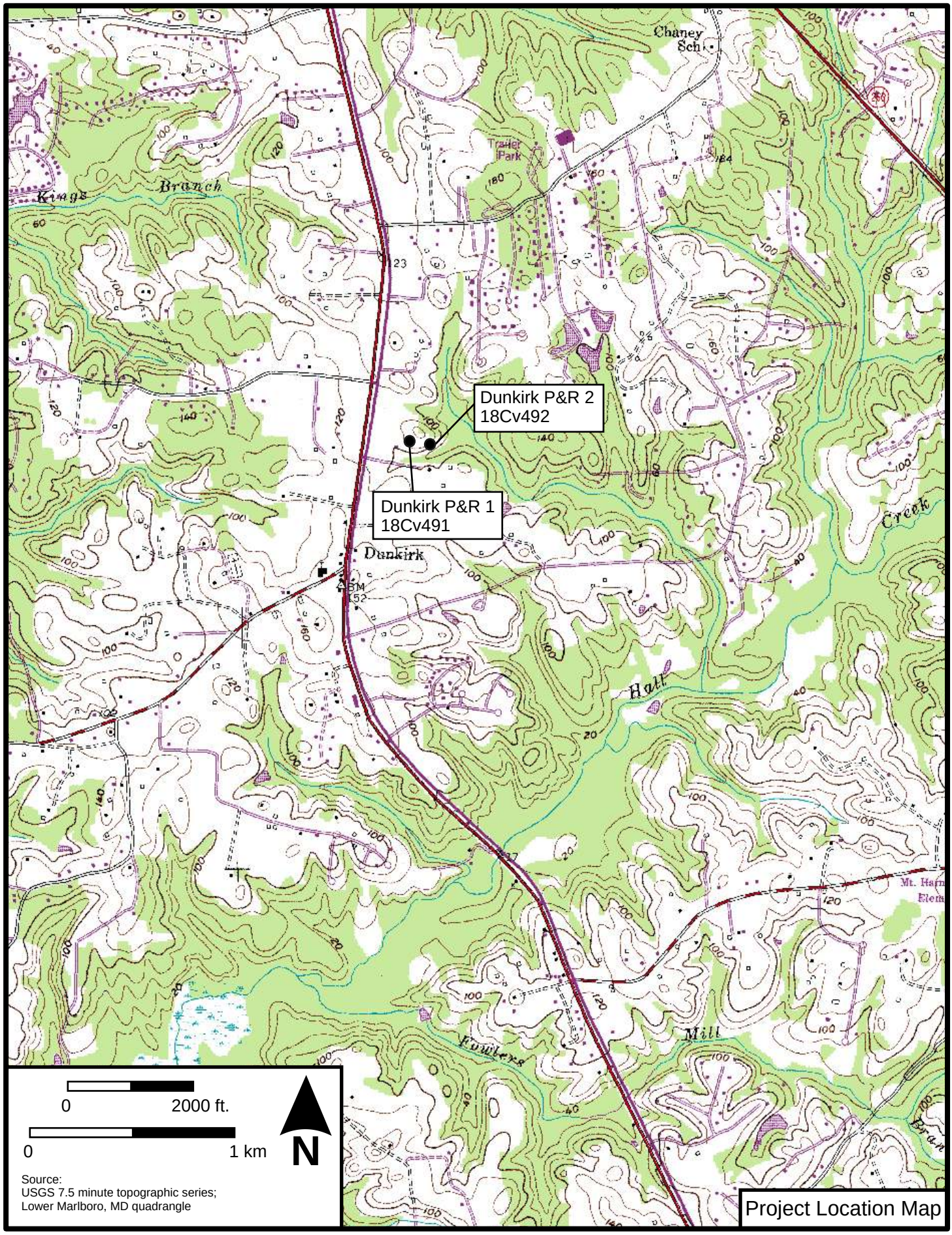
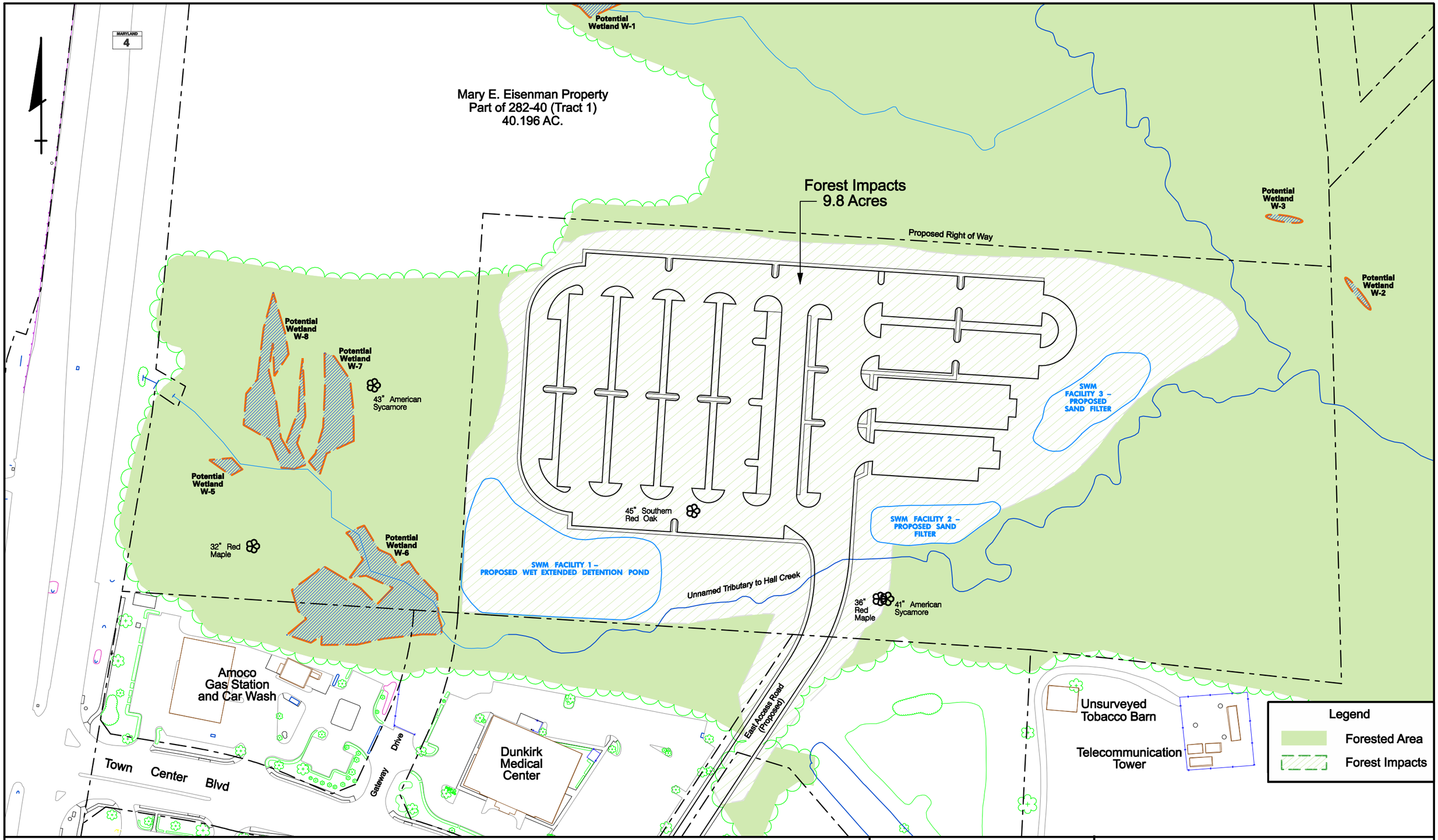

Dunkirk P&R 2
18Cv492
Dunkirk P&R 1
18Cv491
Dunkirk
Chaney Sch
Trailer Park
Kings
Branch
Hall
Creek
Mill
Fowlers
0
2000 ft.
0
1 km
N
Source:
USGS 7.5 minute topographic series;
Lower Marlboro, MD quadrangle
Project Location Map

FIGURE 1



MTA Maryland

MARYLAND TRANSIT ADMINISTRATION

MAY, 2008

60' 0 60' 120'

PROPOSED DUNKIRK
PARK & RIDE
CALVERT COUNTY, MARYLAND

FIGURE 2

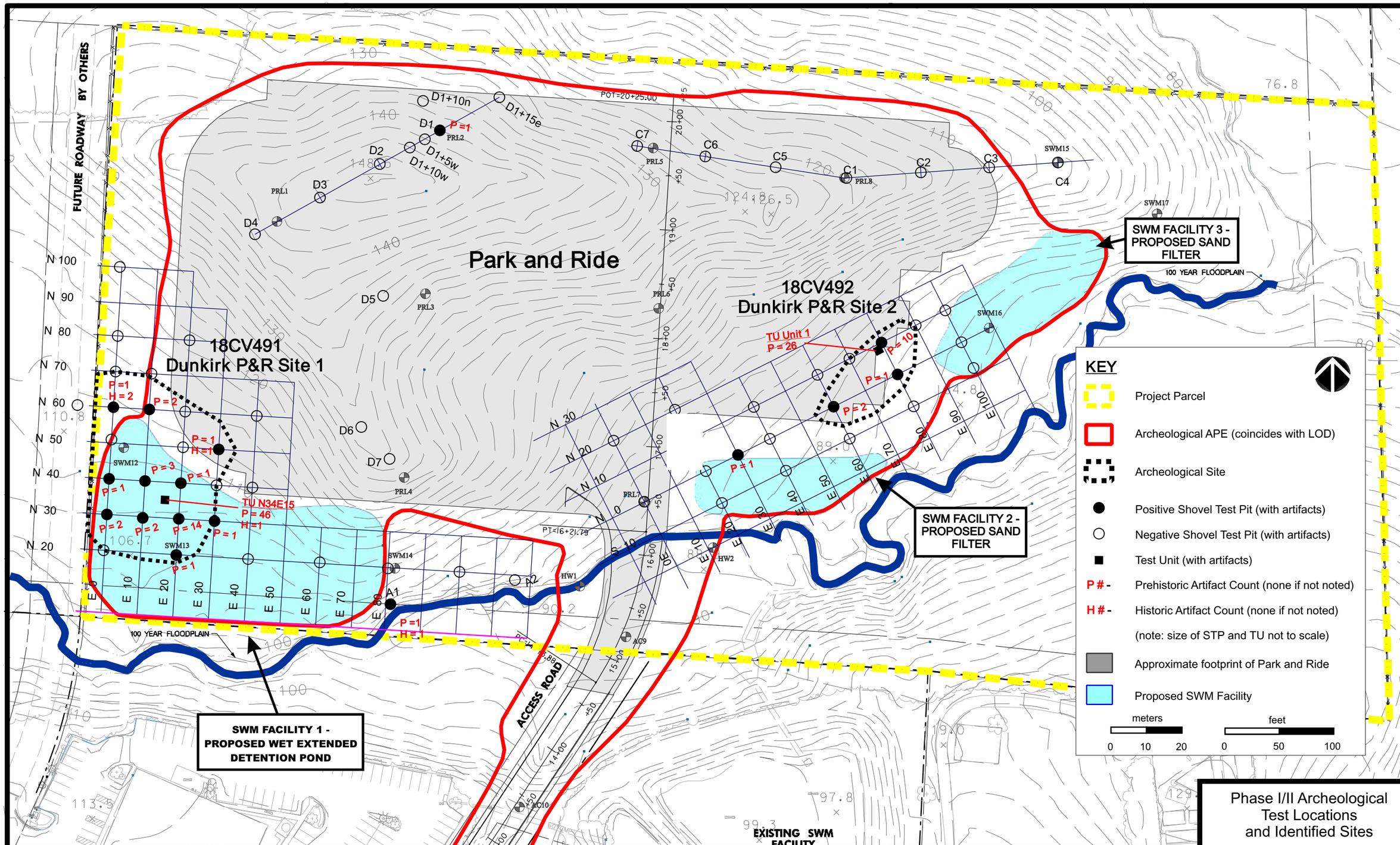

FUTURE ROADWAY BY OTHERS
Park and Ride
18CV491
Dunkirk P&R Site 1
18CV492
Dunkirk P&R Site 2
SWM FACILITY 3 - PROPOSED SAND FILTER
SWM FACILITY 2 - PROPOSED SAND FILTER
SWM FACILITY 1 - PROPOSED WET EXTENDED DETENTION POND
100 YEAR FLOODPLAIN
ACCESS ROAD
EXISTING SWM FACILITY
TU N34E15
P = 46
H = 1
TU Unit 1
P = 26
KEY
Project Parcel
Archeological APE (coincides with LOD)
Archeological Site
Positive Shovel Test Pit (with artifacts)
Negative Shovel Test Pit (with artifacts)
Test Unit (with artifacts)
P # - Prehistoric Artifact Count (none if not noted)
H # - Historic Artifact Count (none if not noted)
(note: size of STP and TU not to scale)
Approximate footprint of Park and Ride
Proposed SWM Facility
meters
0 10 20
feet
0 50 100
Phase I/II Archeological Test Locations and Identified Sites

FIGURE 3

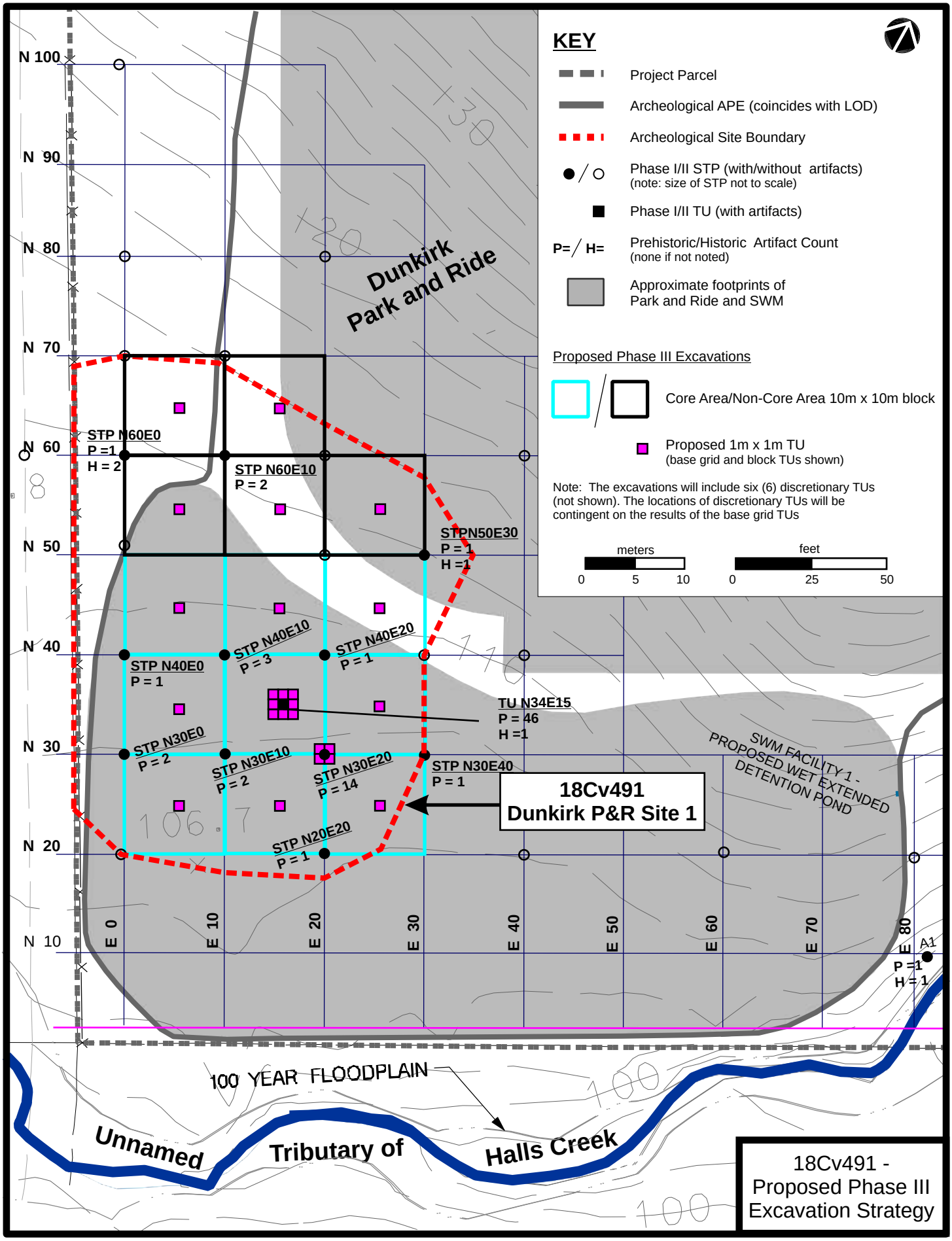

KEY
Project Parcel
Archeological APE (coincides with LOD)
Archeological Site Boundary
Phase I/II STP (with/without artifacts)
(note: size of STP not to scale)
Phase I/II TU (with artifacts)
P=/ H=
Prehistoric/Historic Artifact Count
(none if not noted)
Approximate footprints of
Park and Ride and SWM
Proposed Phase III Excavations
Core Area/Non-Core Area 10m x 10m block
Proposed 1m x 1m TU
(base grid and block TUs shown)
Note: The excavations will include six (6) discretionary TUs (not shown). The locations of discretionary TUs will be contingent on the results of the base grid TUs
meters
0 5 10
feet
0 25 50
N 100
N 90
N 80
N 70
N 60
N 50
N 40
N 30
N 20
N 10
E 0
E 10
E 20
E 30
E 40
E 50
E 60
E 70
E 80
Dunkirk Park and Ride
STP N60E0
P =1
H = 2
STP N60E10
P = 2
STPN50E30
P = 1
H =1
STP N40E0
P = 1
STP N40E10
P = 3
STP N40E20
P = 1
TU N34E15
P = 46
H =1
STP N30E0
P = 2
STP N30E10
P = 2
STP N30E20
P = 14
STP N30E40
P = 1
STP N20E20
P = 1
18Cv491
Dunkirk P&R Site 1
SWM FACILITY 1 - PROPOSED WET EXTENDED DETENTION POND
A1
P =1
H = 1
100 YEAR FLOODPLAIN
Unnamed Tributary of Halls Creek
18Cv491 - Proposed Phase III Excavation Strategy

FIGURE 4

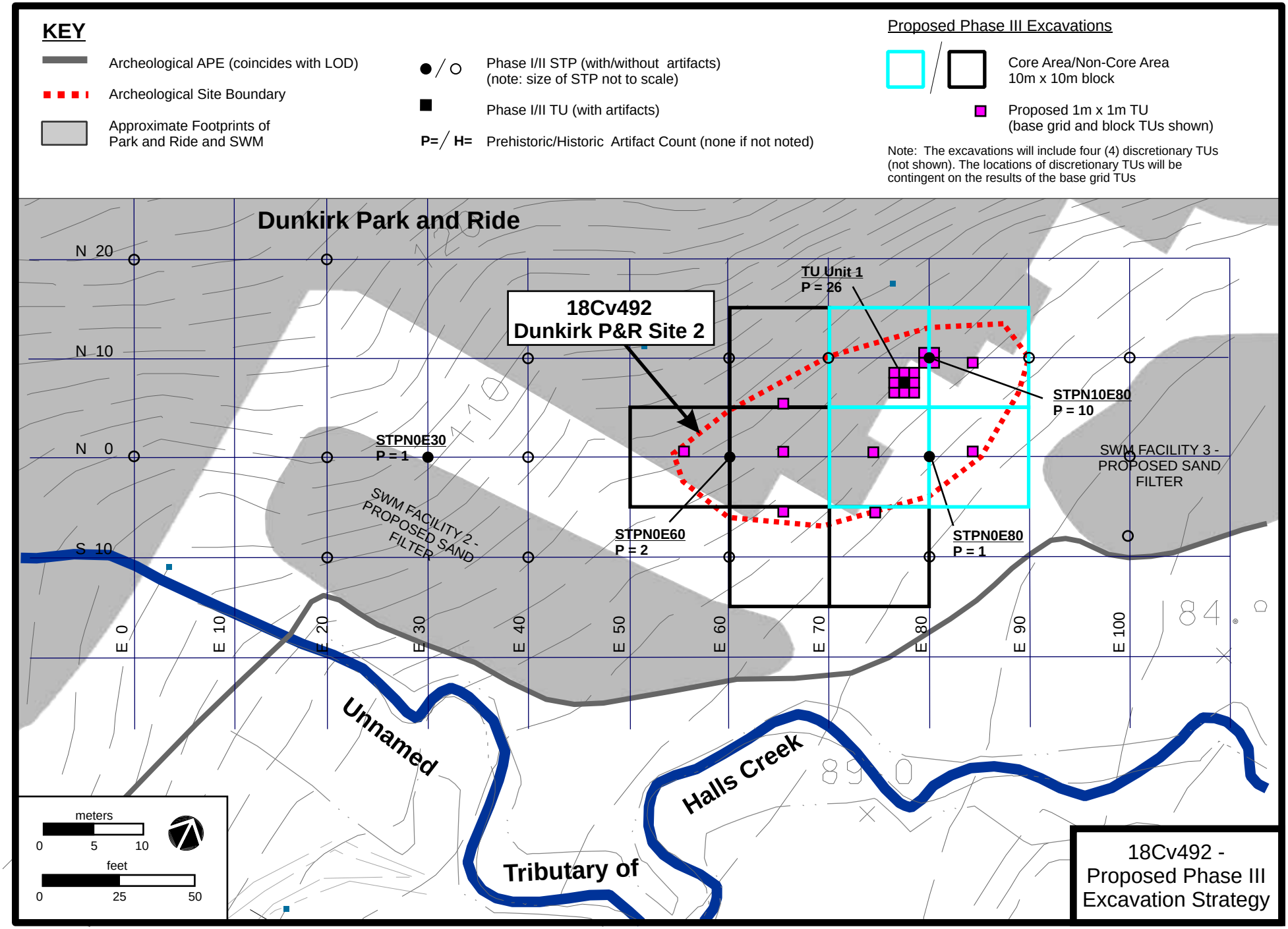

KEY
Archeological APE (coincides with LOD)
Archeological Site Boundary
Approximate Footprints of Park and Ride and SWM
Phase I/II STP (with/without artifacts) (note: size of STP not to scale)
Phase I/II TU (with artifacts)
P= / H= Prehistoric/Historic Artifact Count (none if not noted)
Proposed Phase III Excavations
Core Area/Non-Core Area 10m x 10m block
Proposed 1m x 1m TU (base grid and block TUs shown)
Note: The excavations will include four (4) discretionary TUs (not shown). The locations of discretionary TUs will be contingent on the results of the base grid TUs
Dunkirk Park and Ride
18Cv492 Dunkirk P&R Site 2
TU Unit 1 P = 26
STPN10E80 P = 10
STPN0E30 P = 1
STPN0E60 P = 2
STPN0E80 P = 1
SWM FACILITY 2 - PROPOSED SAND FILTER
SWM FACILITY 3 - PROPOSED SAND FILTER
N 20
N 10
N 0
S 10
E 0
E 10
E 20
E 30
E 40
E 50
E 60
E 70
E 80
E 90
E 100
Unnamed Tributary of Halls Creek
meters
0 5 10
feet
0 25 50
18Cv492 - Proposed Phase III Excavation Strategy

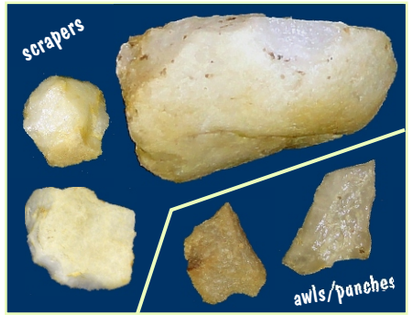
FIGURE 5

APPENDIX II:

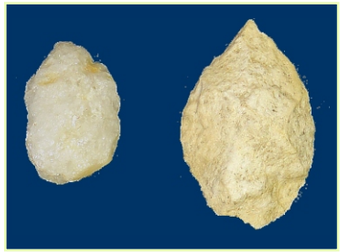
PUBLIC INFORMATION HANDOUT (INTERPRETIVE REPORT)

Tool Making

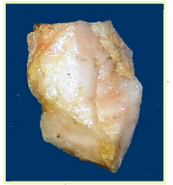
Tool making was a main activity at both sites. Nearly all of the recovered tools are heavily worn and clearly discards. Although several carefully prepared and cared for tools (like projectile points) were recovered, most of the tools found at the sites are ones that were made quickly and discarded after a few times of use. ■



These disposable tools probably served as scrapers, awls, and punches for the processing of animal and/or plant resources.



These artifacts, known as bifaces, are in the early to middle stages of point manufacturing. Some expedient tools are also made from bifaces. A biface is defined as a tool that has been worked on both sides. For one reason or another, these bifaces were lost or discarded before completing the tool. The toolmakers' intentions for these bifaces are unknown.



This artifact is an exhausted core. Unlike bifaces, where the goal was to create a tool by removing flakes, cores were used to generate flakes with sharp edges that could be used as tools.

Why Archeology?

Progress is important, but so is our cultural heritage. Like many of MTA's other cultural resource projects, the archeological excavations at the Dunkirk Park and Ride sites have helped protect our heritage while improving Maryland's transit system. Once it is decided that resources will be affected, MTA and consulting agencies work together to minimize the effects of the project on those resources. This process allows the public and the MTA to exchange ideas, alternatives, and solutions that result in a better future while protecting the past. To learn about regulations regarding the protection of cultural resources visit:

The Advisory Council on Historic Preservation
www.achp.gov

The U.S. Department of Transportation Federal Transit Administration
www.fta.dot.gov/12347_2235.html

The Maryland Historical Trust
www.mht.maryland.gov

We also recommend visiting:

Calvert County - Historic Preservation
www.co.cal.md.us/index.aspx?NID=1252

Jefferson Patterson Park and Museum
www.jefpat.org

Funding for the Archeological Investigations of 18CV491 and 18CV492 was provided by the Maryland Transit Administration and the Federal Transit Administration.

For more information about the Dunkirk Park and Ride, visit:
www.mta.maryland.gov/dunkirk-park-and-ride-project

For more information about other MTA projects visit:
www.mta.maryland.gov

MTA Maryland

Maryland Department of Transportation

U.S. Department of Transportation Federal Transit Administration

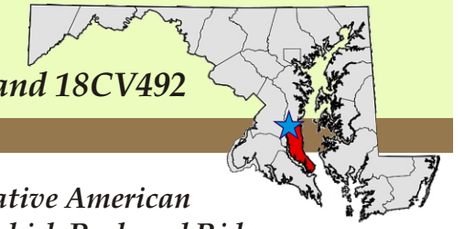
McCormick Taylor Engineers & Planners Since 1946

EAC / A Elizabeth Anderson Comer / Archaeology

A Glimpse into the Past

Archeological Investigations of 18CV491 and 18CV492

Dunkirk Park and Ride, Calvert County, Maryland



Excavating 18CV492 - October 2012

Excavating 18CV491 - September 2012

What does that number mean?

Archaeological sites are numbered with a system that denotes state, county, and order of discovery. In this case, the first number, 18, represents Maryland, which is the 18th state alphabetically. The "CV" stands for Calvert County. The numbers 491 and 492 indicate that the Dunkirk Park and Ride sites were the 491st and 492nd sites recorded in Calvert County.

In case you are interested: Alabama is alphabetically first, so all sites in Alabama begin with 1. The numbering system was established during the 1930s before Alaska and Hawaii acquired statehood. Alaska and Hawaii were added to the end of the list. Alaskan sites start with 49 and sites in Hawaii start with 50.

Uncovering Native American Life at the Dunkirk Park and Ride

The Maryland Transit Administration (MTA) conducts various studies as part of its project planning process. Together, engineers, scientists, environmental planners, preservation specialists, archeologists, and historians use the findings of the studies to develop functional and creative designs that are sensitive to our natural, cultural, and social resources. In addition to studying the effects of a project on the environment, the planning process often presents unique opportunities to explore Maryland's remarkable past.

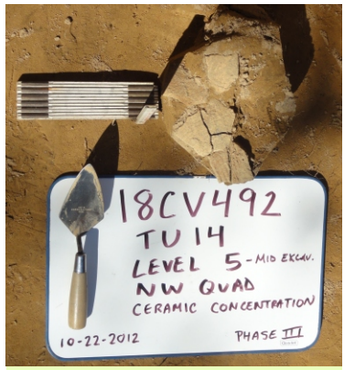
Archeological sites 18CV491 and 18CV492 were discovered during a 2008 planning study for the Dunkirk Park and Ride. The sites were found to contain well-preserved and undisturbed remains of two small Native American encampments that were occupied mostly between 2000 B.C. and A.D. 50 (Late Archaic - Early Woodland). The Maryland Historical Trust determined that both sites are eligible for the National Register of Historic Places because of the sites' excellent preservation and their ability to provide significant new information about Native American life in Calvert County before the arrival of European settlers.

In 2012, McCormick Taylor, Inc. of Baltimore, MD, with the assistance of EAC/Archaeology, Inc., was retained by the MTA to conduct intensive archaeological excavations of 18CV491 and 18CV492. The excavations were performed to carefully remove, record, and study the sites' archaeological data that would have otherwise been destroyed during the construction of the 500-space commuter bus park and ride lot. ■

Sifting Soil

The Ground Beneath our Feet

Archeology is the study of people, situations, and events of the past. Archeological data is more than the artifacts that are recovered. The ground in which artifacts are found is equally as important.



These "in situ", or "in place", pieces of ceramic are examples of the many well-preserved artifacts that were discovered at 18CV491 & 18CV492.

Disturbances caused by human actions, such as the construction of a building, the lighting of a campfire, or the planting of a garden, leave traces as to how people lived. By examining the remains of what people have left behind, and most importantly, where they left them, archeologists can reconstruct the past activities that occurred at a certain location.

Soil discolorations and irregularities are often good indicators of past disturbances to the landscape.

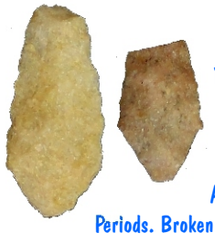
As today's households reflect the technological advances, trends, fashions, diets, health conditions, and quality of life during modern times, the households we uncover provide glimpses into the past. By studying how people once lived, worked, and played, we learn about the people that helped shape the unique and diverse cultural heritage of Calvert County. ■

Native American Habitation at 18CV491 and 18CV492

Sites 18CV491 and 18CV492 were repeatedly visited by Native Americans. Based on recovered artifact types and the remains of living surfaces, archeologists have concluded that the sites functioned as small seasonal base camps. By examining the projectile points and ceramic wares, archeologists have been able to differentiate various occupations at each site that date to the Late Archaic (3750 B.C. - 1250 B.C.), Early Woodland (1250 B.C. - A.D. 50), Middle Woodland (A.D. 50 - A.D. 950), and Late Woodland (A.D. 950 - A.D. 1600) Periods. ■

Susquehanna Broadspear
Late Archaic Period.
These types of points were used more like a knife than a projectile.

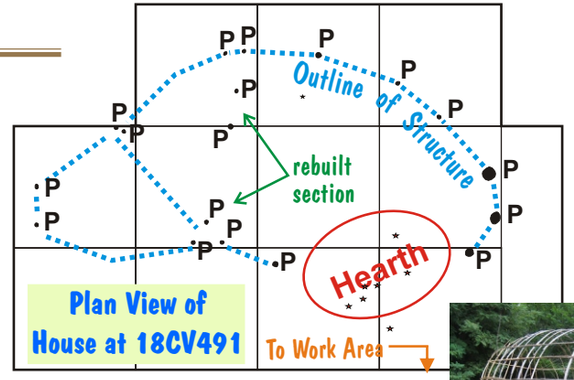
Vernon points
Late Archaic - Early Woodland Period



These worn Piscataway points were recovered from 18CV491. This point type spans the Late Archaic & Early Woodland Periods. Broken tips are a good indication that the points were used as projectiles (like a spear) rather than as cutting or knife-type tools.

The House at 18CV491

A partial ring of decayed support posts of a former house structure was uncovered under the slopewash at 18CV491. The prevailing post pattern outlines an approximate 3.5m x 1.85m structure with a small hearth located at one end. Inconsistencies in the post pattern suggests the house may have been rebuilt during a later occupation. A small work and tool manufacturing area was identified about 3m south of the house. The house's primary occupation is interesting because it spans the transition from the Late Archaic to Early Woodland periods. ■



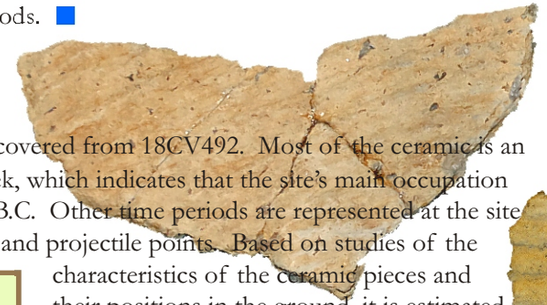
Plan View of House at 18CV491

Reconstructed House at Jefferson Patterson Park & Museum in St. Leonard, MD

Fishtail point
Early Woodland Period

Marcey Creek ceramic
Early Woodland Period

The Ceramic at 18CV492



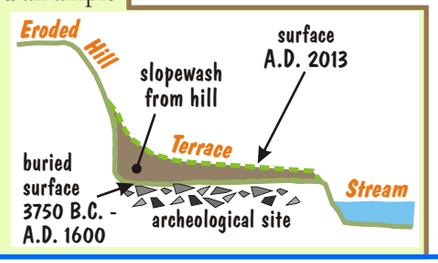
Over 570 pieces of ceramic were recovered from 18CV492. Most of the ceramic is an Early Woodland ware called Accokeek, which indicates that the site's main occupation occurred between 900 B.C. and 300 B.C. Other time periods are represented at the site to a lesser degree by datable ceramic and projectile points. Based on studies of the characteristics of the ceramic pieces and their positions in the ground, it is estimated that there were at least three Accokeek pots and one Mockley pot (A.D. 200 - A.D. 900) at the site when it was abandoned. ■

The diagonal marks on Accokeek ceramic were made by pressing twisted cord into the clay before the pot was fired.

A Perfect Location and a Blanket of Slopewash

Archeologists were not surprised when they found 18CV491 and 18CV492. Both sites are located on natural terraces at the southern base of a small hill that overlooks a small stream. During the Precontact era (before the 1640s), this environment contained a diversity of plants and animals, which would have attracted people to the area. Native American groups would have regarded the stream terraces as favorable spots for seasonal use due to their southern exposures and close proximity to fresh water. The meandering stream bed also provided an ample supply of cobbles for making the stone tools needed for processing plant and animal resources.

The sites' environmental settings have also protected them. The hill to the north of the sites is small, but its slopes are steep. For centuries, various processes have caused soil to erode down from the hill onto the terraces below. The accumulated soil ("slopewash") deeply buried the original land surfaces of the terraces, and the archeological materials on them. This blanket of slopewash has protected the sites from becoming eroded themselves, from becoming mixed through historic plowing, and from other common surface disturbances. ■



Triangle points - Late Woodland Period

Mockley ceramic
Middle Woodland Period

APPENDIX III:

GEOARCHAEOLOGICAL INTERPRETATIONS OF SITES 18CV491 AND 18CV492 NEAR THE TOWN OF DUNKIRK, CALVERT COUNTY, MARYLAND (WAGNER 2013)

Geo-Sci Consultants, LLC

4410 Van Buren Street, University Park, Maryland 20782

tel: 301 277 3731 **fax: 301 277 2147**

GEOARCHAEOLOGICAL INTERPRETATIONS

OF SITES 18CV491 AND 18CV492

NEAR THE TOWN OF DUNKIRK

CALVERT COUNTY, MARYLAND

Submitted to
McCormick Taylor, Inc.

By
Daniel P. Wagner, Ph.D.
Pedologist

March 13, 2013

Introduction

The following summarizes geoarchaeological examinations made at Sites 18CR491 and 492 located in the northern part the town of Dunkirk in Calvert County, Maryland. The principal objectives of the study were to assess the soils and landscapes available to prehistoric populations, as well as the extent of historic impacts accrued since the initiation of European settlement over 300 years ago. Investigations were directed toward examinations and analyses of soil and geomorphic features for indications of landscape stability, buried surface levels, deposit types, and environmental conditions relating to human utilization of a landscape.

Field investigations of the site areas were made during two visits. The first was on September 20, 2012 at which time a number of test unit exposures were available for examination at Site 18CV491. The three considered most representative of the observed soil variation across the relatively small site area were chosen for detailed description. A second visit was made on September 28, 2012 to examine and describe a single test unit exposure at Site 18CV492. All profile descriptions were compiled in accordance with standard pedological techniques and nomenclature for the field description of soils, and these descriptions are attached after the discussion.

Laboratory analyses were also made in support of field data. Two of the described soil profiles were also sampled for soil particle size analyses which entailed chemical dispersion followed by measurement of sand fractions by mechanical sieving and determinations of silt and clay fractions by hydrometer analyses. Soil Particle size data are given at the end of the report following the soil profile descriptions.

Physiology and Geology

The project area is situated within the Coastal Plain Physiographic Province within which all of Calvert County is contained. Geologically, this province is characterized by variously textured, unconsolidated sediments derived both from marine and fluvial sedimentary regimes as well as more recent alluviation in association with modern stream valleys and drainageways. The rolling regional terrain throughout the northern part of Calvert County is formed mainly in marine deposits of Tertiary age. Specifically, geology in the immediate vicinity of the site areas is identified as the Miocene age Calvert Formation consisting of fine grained argillaceous sand that is also often diatomaceous. These fine-sandy materials tend to have a high susceptibility to natural erosional processes, hence accounting for the dissected, sloping topography so common along the region drainageways.

In addition to the natural complexity of Coastal Plain deposits and topography, human activities have also greatly contributed to existing soil and landscape relationships. Chief among these is a prolonged history of both local and regional agriculture. During a history of cultivation encompassing nearly four centuries, tillage-induced soil erosion has modified many Coastal Plain landscapes, particularly where soils are formed in geologic sediments already prone to erosion. Tillage of sloping landscapes nearly always results in the depletion of upper soil horizons at higher positions with subsequent deposition of much of eroded soil along lower

toeslope positions. Some of the mobilized soil can also find its way to stream systems where as transported sediment it may ultimately be deposited in the alluvial settings of valley bottoms. This historic erosion and sedimentation has been so widespread that most upland landscapes throughout Southern Maryland have significantly deflated summits and sideslopes as well as variably thick mantles of slope wash along the slope bases.

Soils and Geomorphology

Both sites occupy similar upland landscapes which can be generally characterized as gently sloping footslope positions near the bases of much more steeply inclined slopes and closely situated to a small unnamed tributary to Hall Creek. Although both site areas are now wooded, the examined soils offer irrefutable evidence of past and probably prolonged histories of former tillage. Similar soils and formation processes are for the most part shared by the two sites. The particulars of each site are separately addressed below.

Site 18CV491

The landscape across this more extensive of the two sites is somewhat more variable than that of Site 18CV492 and includes several local micro-positions within the overall footslope setting. Each of these has specific soils with differing implications for dispositions of cultural materials. Much of the variation is largely a function of distance from the base of the steep slope, but in one area there is also a slight rise that is independent of this factor.

A trait common to most of the site except for the slight rise is a surficial mantle of slope wash derived from the adjacent upland slope and undoubtedly generated from former tillage-induced erosion of the slope. The thickness of this mantle is for the most part regulated by distance from the higher slope. For much of the site the mantle is less than 30 cm in thickness, and 22-cm cap atop the profile of Test Unit N29E19 is well representative of the predominant condition (Figure 1). Beneath this cap is the original surface (2Apb) which has been plowed, but as suggested by its relatively thin (10 cm) thickness probably only by animal-drawn equipment. Hence, this surface was isolated before the introduction of mechanical equipment. The greater (16 cm) thickness for former plow zones now at the modern surface and identified in all three of the described test unit profiles (N29E19, N24E5 and N45E25) is more compatible with mechanical tillage, although not that widely used at the present time. More darkly colored forested surface horizons (A) have formed at the top of these former plow zones subsequent to field abandonment and reversion to woodland.

The two other described test unit profiles represent less common conditions for the site. Located on the previously mentioned slight rise and among the more distant test units from the steep slope, the profile of Test Unit N24E5 actually has no mantle of slope was at all (Figure 2). Indeed, it may even be a partially deflated position. In contrast, in the profile of Test Unit N45E25 situated close to the base of the slope, surficial slope wash is 80 cm thick (Figure 3). Such depositional positions as this actually offer the best prospects for preserving at least some

Figure 1. The original surface is buried in the profile of Test Unit N29E19 is buried by 22 cm of slope wash and is seen as weakly expressed plow zone just above the center of the profile.

Figure 2. Situated atop a slight rise, the profile of Test Unit N25E5 lacks a veneer of slope wash typical of the rest of the site area.

of the original integrity of cultural materials. Buried beneath rapidly accumulating wash deposits, original surfaces eventually become isolated from the effects of continuing tillage. In some cases such as at this specific location the sequence of land clearance and plowing events actually provided nearly complete preservation of the original surface before the position was encompassed within a regime of regular plowing. This is evinced by an upper subsoil horizon (2Eb) of a type that is essentially ubiquitous in forested soils but which due to destruction via incorporation with the original surface horizon to form a mixed plow zone is now comparatively rare. It is possible that tillage first began on the higher slope and that the resultant mobilized soil buried the surface here before it could be subject to any plowing at all. Alternatively, the location may have had a brief history of tillage prior to burial; however, the darker color (10YR 3/2) of the deeply buried 2Ab horizon is more consistent with a forest floor than the obviously plowed surface horizons of the site which are lighter in color (10YR 4/3).

Figure 3. The original surface in the profile of Test Unit N45E25 is just above the unit floor at the depth of 80 cm. This surface may have been buried prior to the location being plowed.

The generally fine-sandy composition of the site soils is typical of soils for which sediments of the Calvert Formation serve as parent materials. These sediments may undergo soil weathering either directly in place or subsequent to natural episodes of reworking and restabilization. Given the nature of the landscape both possibilities are probably in play to varying extents, but in whatever way the site deposits arrived at their location, advanced pedogenic subsoil development indicates that prior to European settlement the landscape had beforehand long been stable. As shown in Figure 4 the results of both agricultural erosion as well as the preceding period of prolonged soil development are apparent. With high sand contents and fairly low amounts of clay, the mantle of slope wash deposits extending to the depth of 22 cm is quite similar in texture to the upper levels of the buried soil. This logically indicates that the slope wash was derived from the surficial deflation of similar soils that also

occupied higher landscape positions atop and along the steep slope. Beneath the young surface mantle the textural progression with depth is typical for mature soil profile development in which a significant increase in subsoil clay content marks advanced argillic horizon (2Btb) development requiring many thousands of years to achieve. This again is typical for the regional uplands and demonstrates that mostly stable landscape conditions have existed for a period likely reaching well into the Pleistocene and predating even the earliest human inhabitants of the region.

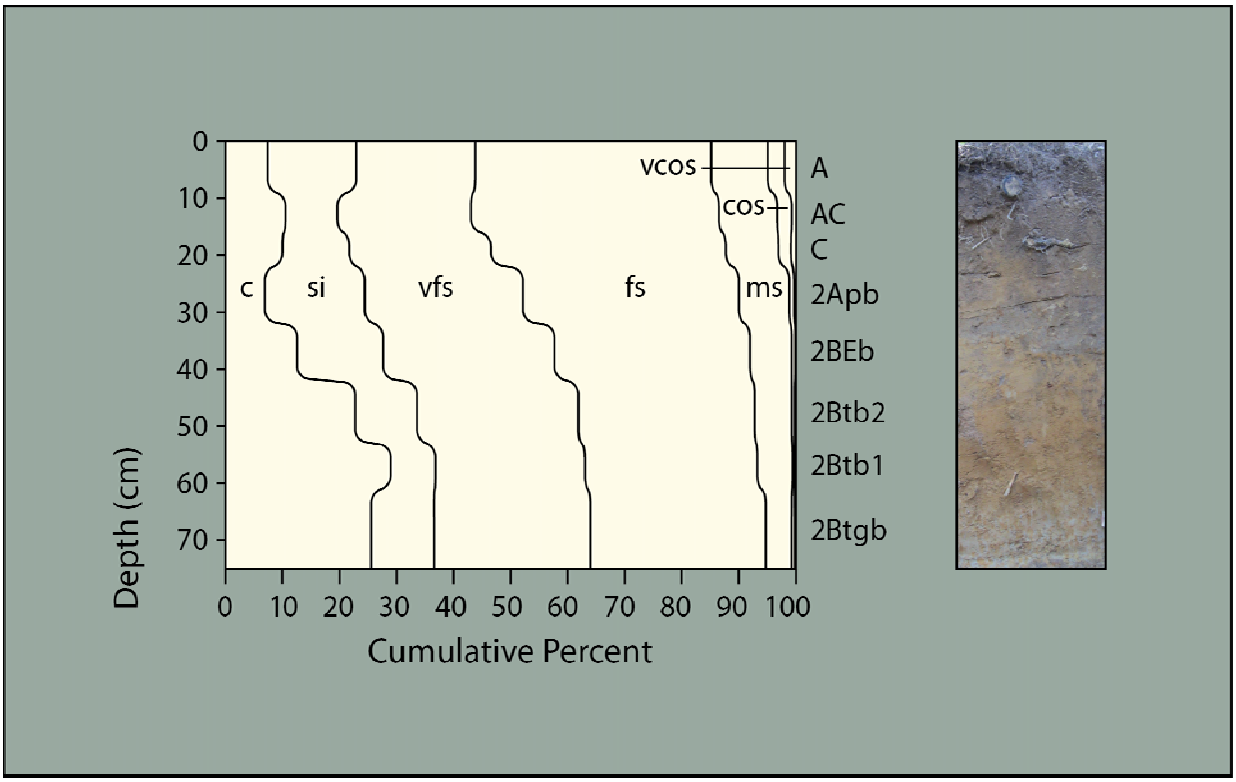


Figure 4. Soil particle size distribution with depth in the profile of Test Unit N29E19.

The advanced degree of soil development has significant implications for the distribution of cultural materials in the site soils. Because of the Pleistocene age most cultural material should largely be contained blow the upper mantle of historic slope wash and near the original surface level (2Apb), although some upward mixing into the historic zone could have occurred during plowing. Some cultural materials are also likely to be present in underlying upper subsoil horizons (2Eb and 2BEb) where they are often readily introduced by natural bioturbational processes. Rarely do artifacts occur within strongly developed argillic horizons since these mark zones that are largely free of natural mixing processes. In that regard the Broadspear recovered at the depth of 55 cm from the soil of the low rise in Test Unit N24E5 should be viewed as something of an anomaly. This depth is well into an argillic horizon that, based on its advanced degree of development, predates the age of the artifact by a factor of at least three and probably four or more.

Site18CV492

The soil of this considerably smaller site area was examined in only a single test unit. The site's gently sloping position close to the base of another steep upland slope is very much like that of Test Unit N45E25 at Site 18CV491, and not surprisingly the soil profile is also similar. A mantle of fine-sandy slope wash buries the original surface at the depth of 54 cm. This buried surface, however, unlike that for the above test unit appears more likely to have undergone some amount of tillage before being isolated (Figure 5). Although at 6 cm thick it is quite thin, the horizon contains a mix of colors (10YR 3/3 and 4/4) suggesting a partial blending of materials inconsistent with the darker uniformity of an unplowed forest floor. The mix of colors does, however, strongly hint at relatively rapid isolation from repeated plowing, and the context of any cultural materials present could still be quite good.

Figure 5. A thick (54 cm) mantle of agricultural slope wash buries a weakly formed plow zone that probably had only a brief history of tillage.

Another interesting trait of this soil has implications both for a somewhat differing site formation model as well as the potential disposition of cultural materials. Beneath the buried surface horizon is a stacked sequence of two E horizons that together are 35 cm thick. Such a thickness is not particularly unusual for such a sandy soil, but it is considerably more than that observed at Site 18CV491. There is a good possibility that in addition to the historically induced slope wash component, the soil also contains a significant amount of wash deposits naturally amassed before European settlement. This allows not only for the prospect of more deeply buried cultural materials, but also some possibility of separately stratified cultural deposits. The time frame under which natural slope wash may have accumulated is unknown, but centuries or even millennia could be in play to allow for different occupations at multiple levels within the upper portion of the subsoil.

Like the soils of Site 18CV491 the soil of this site is also one of mature development. It is generally more sandy in composition, and only the top of the argillic horizon was intercepted by the test unit; but as depicted in Figure 6 it undergoes a sufficiently marked increase in subsoil clay to evince a prolonged period of soil development again readily extending into the Pleistocene. Hence, the argillic subsoil horizon should mark the depth limit for cultural potential.

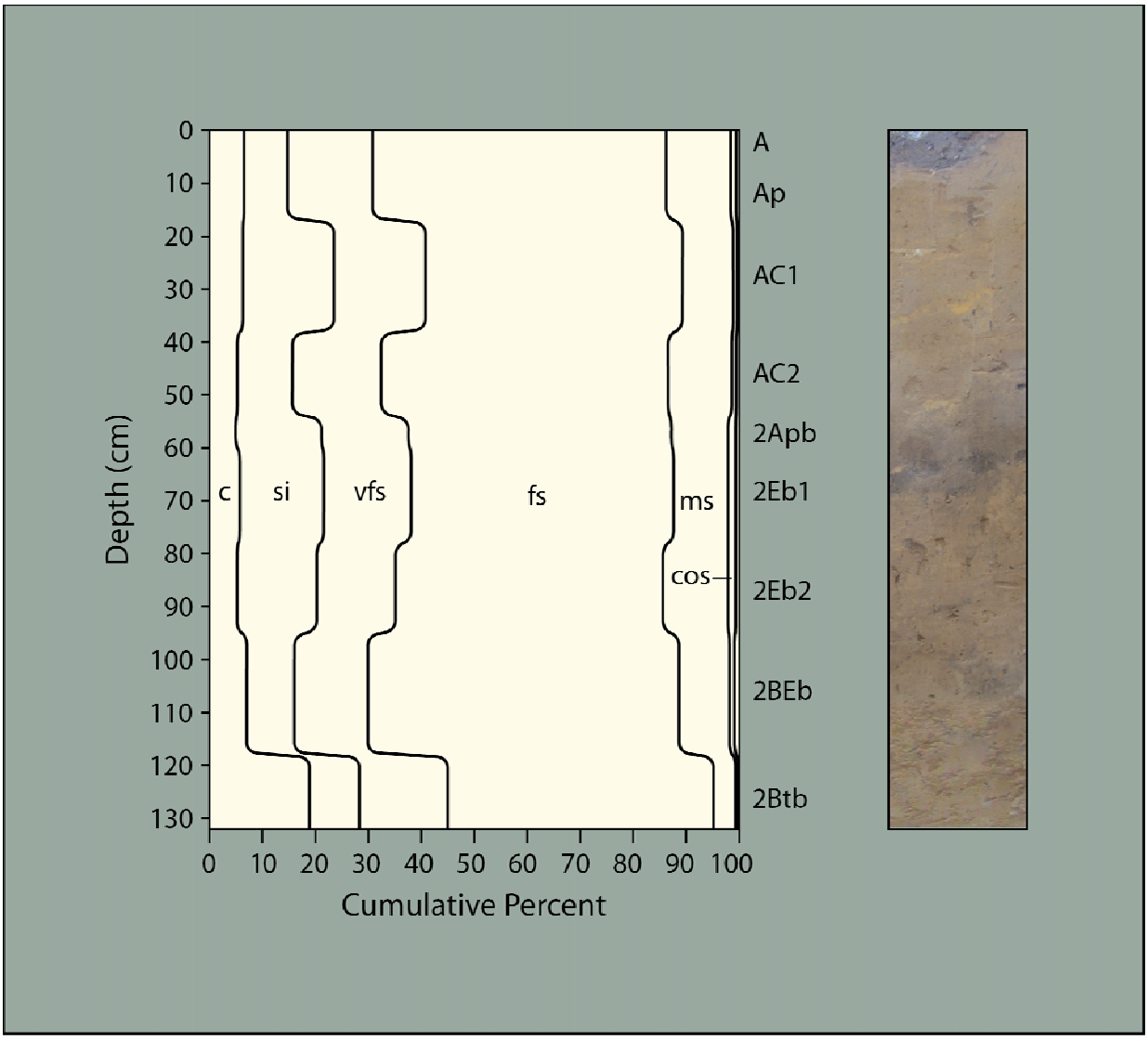


Figure 6. Soil particle size distribution with depth.

Soil Profile Descriptions, Site 18CV491

Test Unit N29E19

Horizon	Depth (cm)	Properties
A	0-9	Very dark grayish brown (10YR 3/2) loam; weak, medium granular structure; very friable consistence; clear, smooth boundary
Ap	9-16	Brown (10YR 4/3) to dark yellowish brown (10YR 4/4) fine sandy loam; weak, fine platy structure; very friable consistence; clear, smooth boundary
C	16-22	Dark yellowish brown (10YR 4/6) fine sandy loam; weak, medium platy structure; very friable consistence; abrupt, smooth boundary
2Apb	22-32	Dark grayish brown (10YR 4/2) and brown (10YR 4/3) fine sandy loam; common, medium distinct mottles of strong brown (7.5YR 4/6); weak, medium platy structure; very friable consistence; abrupt, smooth boundary
2BEb	32-42	Dark yellowish brown (10YR 4/6) fine sandy loam; weak, medium subangular blocky structure; friable consistence; clear, smooth boundary
2Btb1	42-53	Strong brown (7.5YR 5/6) heavy loam; weak to moderate, medium subangular blocky structure; patchy clay films; friable consistence; clear, smooth boundary
2Btb2	53-61	Strong brown (7.5YR 4/6) clay loam to silty clay loam; common, medium distinct mottles of light brownish gray (10YR 6/2); moderate, medium subangular blocky structure; continuous clay films on most ped surfaces; friable consistence; clear, smooth boundary
2Btgb	61-75+	Light brownish gray (10YR 6/2) clay loam to silty clay loam; many, medium distinct mottles of strong brown (7.5YR 4/6); moderate, medium subangular blocky structure; continuous clay films on most ped surfaces; friable to firm consistence

Other comments: Upland footslope position; 3% slope; moderately well drained; upper 22 cm are tillage-induced slope wash; A horizon has formed in top of old Ap; 2Apb is the original surface and was not mechanically plowed; small quartzite flake and fcr in 2Apb at 27cm; described 9/20/12

Test Unit N24E5

Horizon	Depth (cm)	Properties
A	0-7	Very dark grayish brown (10YR 3/2) loam to silt loam; weak, medium granular structure; very friable consistence; clear, smooth boundary
Ap	7-16	Brown (10YR 4/3) and dark brown (10YR 3/3) fine sandy loam; common, medium distinct mottles of strong brown (7.5YR 4/6); weak, fine platy structure; friable consistence; abrupt, smooth boundary
BE	16-27	Dark yellowish brown (10YR 4/4 to 4/6) fine sandy loam; weak, medium subangular blocky structure; friable consistence; clear, smooth boundary
Bt1	27-45	Dark yellowish brown (10YR 4/6) fine sandy loam; weak, coarse platy structure; patchy clay films; friable consistence; clear, smooth boundary
Bt2	45-54	Dark yellowish brown (10YR 4/6) heavy loam; common, medium distinct mottles of light brownish gray (10YR 6/2); moderate, medium subangular blocky structure; continuous clay films on most ped surfaces; friable consistence; clear, smooth boundary
Btg	54-69	Light brownish gray (2.5Y 6/2) sandy clay loam; common, medium prominent mottles of strong brown (7.5YR 4/6); moderate to weak, medium subangular blocky structure; patchy clay films; friable consistence; clear, smooth boundary
BC	69-86	Light olive brown (2.5Y 5/4) loamy fine sand; common, medium distinct mottles of light brownish gray (2.5Y 6/2); weak, coarse subangular blocky structure; very friable consistence; clear, smooth boundary
C	86-95	Light olive brown (2.5Y 5/4) loamy fine sand; common, coarse distinct mottles of light brownish gray (2.5Y 6/2); structureless, massive; very friable consistence; clear, smooth boundary
Cg	95-140	Gray (2.5Y 6/1) sand; structureless, single grain; loose consistence; clear, smooth boundary

C’	140-155+	Dark yellowish brown (10YR 4/4) sand; common, coarse distinct mottles of gray (2.5Y 6/1); structureless, massive; loose consistence

Other comments: Upland summit position, local rise; 2% slope; moderately well drained; A horizon has formed in top of old Ap; described 9/20/12

Test Unit N45E25

Horizon	Depth (cm)	Properties
A	0-7	Very dark grayish brown (10YR 3/2) loam; weak, medium granular structure; very friable consistence; clear, wavy boundary
Ap	7-16	Brown (10YR 4/3) fine sandy loam; structureless, massive; friable consistence; clear smooth boundary
C	16-49	Dark yellowish brown (10YR 4/6) and yellowish brown (10YR 5/4) fine sandy loam; structureless, massive; very friable consistence; abrupt, smooth boundary
AC	49-64	Dark yellowish brown (10YR 4/4) and brown (10YR 4/3) fine sandy loam; structureless, massive; very friable consistence; clear, smooth boundary
Ab	64-80	Brown (10YR 4/3) fine sandy loam; structureless, massive; friable consistence; clear, smooth boundary
2Ab	80-89	Very dark grayish brown (10YR 3/2) loam; weak, medium platy structure; very friable consistence; clear, smooth boundary
2Eb	89-97+	Light olive brown (2.5Y 5/5) very fine sandy loam; weak, medium platy structure; friable to very friable consistence

Other comments: Upland footslope position abutting base of higher slope; 4% slope; probably moderately well drained; upper 80 cm are tillage-induced slope wash; A horizon has formed in top of old Ap; 2Ab horizon is the original surface and appears to have been buried before the position was plowed; charcoal flecks in 2Ab horizon; described 9/20/12

Soil Profile Description, Site 18CV492

Test Unit 1

Horizon	Depth (cm)	Properties
A	0-5	Very dark grayish brown (10YR 3/2) very fine sandy loam; weak, medium granular structure; very friable consistence; abrupt, wavy boundary
Ap	5-17	Brown (10YR 4/3) fine sandy loam to loamy fine sand; structureless, massive; very friable consistence; abrupt, smooth boundary
AC	17-38	Brown (10YR 4/3) and dark yellowish brown (10YR 4/6) fine sandy loam; structureless, massive; friable consistence; clear, smooth boundary
Ab	38-54	Brown (10YR 4/3) and minor yellowish brown (10YR 5/5) fine sandy loam; structureless, massive; very friable consistence; clear, smooth boundary
2Apb	54-60	Dark brown (10YR 3/3) and dark yellowish brown (10YR 4/4) fine sandy loam; weak, medium platy structure; very friable consistence; clear, smooth boundary
2Eb1	60-78	Dark yellowish brown (10YR 4/4) fine sandy loam; weak, medium platy structure; very friable consistence; gradual, smooth boundary
2Eb2	78-95	Yellowish brown (10YR 5/4) fine sandy loam to loamy fine sand; weak, medium platy structure; very friable consistence; clear, smooth boundary
2BEb	95-118	Strong brown (7.5YR 4/6) fine sandy loam; weak to moderate, coarse subangular blocky structure; friable consistence; clear, smooth boundary
2Btb	118-132+	Strong brown (7.5YR 4/6) heavy fine sandy loam; medium, coarse subangular blocky structure; discontinuous clay films on most ped surfaces; friable consistence

Other comments: Upland footslope position; 5% slope; probably moderately well drained; upper 54 cm are tillage-induced slope wash; A horizon has formed in top of old Ap; 2Apb is the original surface and was not intensely plowed; few pebbles in all horizons above 2Btb horizon; described 9/28/12

Distributions of Soil Particle Size Fractions with Depth

Site 18CV491, Test Unit N29E19

		Total (<2 mm)			Sand Fractions (2-0.05 mm)				
Horizon	Depth (cm)	clay	silt	sand	vcos	cos	ms	fs	vfs
		- - - - - - - - - - - -			% - - - - - - - - - - - - - -				
A	0-9	7.4	25.5	67.1	2.0	3.0	9.9	31.3	20.9
AC	9-16	10.6	19.0	70.4	0.7	2.6	10.2	33.5	23.4
C	16-22	10.0	21.7	68.3	0.8	2.3	9.2	31.2	24.8
2Apb	22-32	6.9	27.4	65.7	0.2	1.0	8.8	27.9	27.8
2BEb	32-42	12.6	25.0	62.4	0.1	0.7	7.3	24.2	30.1
2Btb1	42-53	22.7	20.8	56.5	0.2	0.6	6.5	20.9	28.3
2Btb2	53-61	29.0	17.8	53.2	0.2	0.4	6.2	20.2	26.2
2Btgb	61-75+	25.5	21.0	53.4	0.2	0.5	4.6	20.8	27.3

Site 18CV492, Test Unit 1

		Total (<2 mm)			Sand Fractions (2-0.05 mm)				
Horizon	Depth (cm)	clay	silt	sand	vcos	cos	ms	fs	vfs
		- - - - - - - - - - - -			% - - - - - - - - - - - - - -				
A	0-5	6.5	8.2	85.3	0.6	1.0	12.2	55.4	16.1
Ap	5-17	6.5	8.2	85.3	0.6	1.0	12.2	55.4	16.1
AC1	17-38	6.3	17.0	76.7	0.3	0.9	9.5	48.6	17.4
AC2	38-54	5.3	10.3	84.4	0.5	1.0	11.9	54.3	16.7
2Apb	54-60	4.9	16.2	78.9	0.7	1.5	10.6	49.6	16.5
2Eb1	60-78	5.7	15.9	78.4	0.7	1.5	10.2	49.5	16.5
2Eb2	78-95	5.2	15.1	79.7	0.7	1.5	12.2	50.5	14.8
2BEb	95-118	7.1	8.9	84.0	0.9	0.9	9.6	58.7	13.9
2Btb	118-132+	18.9	9.4	71.7	0.2	0.4	4.3	50.2	16.6

vcos = 2-1 mm, cos = 1-0.5 mm, ms = 0.5-0.25 mm, fs = 0.25-0.1 mm, vfs = 0.1-0.05 mm, silt = 0.05-0.002 mm, clay = <0.002 mm

APPENDIX IV:

ARTIFACT CATALOG BY PROVENIENCE
DUNKIRK P&R 1 SITE
18CV491

Artifact Catalog by Provenience - 18CV491

18CV491

Block 1

TU	N29 E19		164	Total Artifacts
TU N29 E19, level 1, - Zone 1A	Catalog #:	407	Artifacts:	
			3	quartz flake
			3	lot sum
TU N29 E19, level 2, SE quad - Zone 1A	Catalog #:	408	Artifacts:	
			1	quartzite flake
			2	quartz flake
			3	lot sum
TU N29 E19, level 3, NW quad - Zone 1B	Catalog #:	410	Artifacts:	
			1	quartzite core with cortex
			5	quartz flake
			1	rhyolite flake
			1	quartz shatter
			8	lot sum
TU N29 E19, level 3, NE quad - Zone 1B	Catalog #:	411	Artifacts:	
			1	rhyolite flake
			5	quartz flake
			6	lot sum
TU N29 E19, level 3, SE quad - Zone 1B	Catalog #:	412	Artifacts:	
			4	quartz flake (2 with cortex)
			4	lot sum
TU N29 E19, level 3, SW quad - Zone 1B	Catalog #:	413	Artifacts:	
			1	quartzite flake with cortex
			9	quartz flake
			1	rhyolite flake
			3	slate

		14	***lot sum***
TU N29 E19, level 3/3A, SW-South Wall - Zone 2	Catalog #: 414	Artifacts:	
		1	quartz flake
		1	***lot sum***
TU N29 E19, level 3B, SW quad - Zone 2	Catalog #: 415	Artifacts:	
		1	quartz biface fragment
		1	rhyolite flake
		10	quartzite flake (2 with cortex)
		8	quartz flake
		1	quartz late stage biface
		1	quartz utilized flake
		22	***lot sum***
TU N29 E19, level 3B, NW quad - Zone 2	Catalog #: 416	Artifacts:	
		1	quartz biface fragment
		2	fire-cracked rock (255.14 g)
		13	quartz flake
		3	rhyolite flake
		1	quartz point fragment, distal/tip fragment
		1	quartzite shatter
		21	***lot sum***
TU N29 E19, level 3B, SE quad - Zone 2	Catalog #: 417	Artifacts:	
		11	quartzite flake (1 with cortex)
		8	quartz flake (1 with cortex)
		19	***lot sum***
TU N29 E19, level 3B, NE quad - Zone 2	Catalog #: 418	Artifacts:	
		2	quartzite flake
		5	quartz flake (1 with cortex)
		1	rhyolite flake
		1	quartz utilized flake with cortex
		9	***lot sum***

TU N29 E19, level 4, NE quad - Zone 2 Catalog #: 419

Artifacts:

4	quartz flake
5	quartzite flake (1 with cortex)
9	***lot sum***

TU N29 E19, level 4, NW quad - Zone 2 Catalog #: 420

Artifacts:

2	rhyolite flake
2	quartzite flake
11	quartz flake (1 with cortex)
1	quartz utilized flake with cortex
16	***lot sum***

TU N29 E19, level 4, SE quad - Zone 2 Catalog #: 421

Artifacts:

2	quartzite flake
5	quartz flake
1	rhyolite flake
8	***lot sum***

TU N29 E19, level 4, SW quad - Zone 2 Catalog #: 422

Artifacts:

5	quartz flake (1 with cortex)
1	rhyolite flake
3	quartzite flake (1 with cortex)
9	***lot sum***

TU N29 E19, level 5, NE quad - Zone 3 Catalog #: 423

Artifacts:

1	rhyolite flake
1	***lot sum***

TU N29 E19, level 5, NW quad - Zone 3 Catalog #: 424

Artifacts:

1	quartzite flake
1	***lot sum***

TU N29 E19, level 5, SE quad - Zone 3 Catalog #: 425

Artifacts:

3	quartzite flake

1	rhyolite flake	
1	quartz utilized flake	
5	***lot sum***	

TU N29 E19, level 5, SW quad - Zone 3 Catalog #: 426

Artifacts:

1	quartzite flake
4	quartz flake
5	***lot sum***

TU N29 E19, N29 E20, N30 E19, N30 E20 — *10 Total Artifacts*

TU N29 E19, N29 E20, N30 E19, N30 E20, level N/A, Wall Clean-up - Zone 1A Catalog #: 81

Artifacts:

1	quartz flake with cortex
2	quartzite flake (1 with cortex)
1	quartz utilized flake with cortex
4	***lot sum***

TU N29 E19, N29 E20, N30 E19, N30 E20, level 3, Floor Scrape - Zone 1B Catalog #: 80

Artifacts:

2	quartzite flake
2	quartz utilized flake (1 with cortex)
2	quartzite utilized flake
6	***lot sum***

TU N29 E20 — *165 Total Artifacts*

TU N29 E20, level 1, - Zone 1A Catalog #: 21

Artifacts:

6	quartz flake (2 with cortex)
1	large cobble tool
1	quartz shatter
8	***lot sum***

TU N29 E20, level 2, NW quad - Zone 1A Catalog #: 22

Artifacts:

1	quartzite flake
1	quartz utilized flake
2	***lot sum***

TU N29 E20, level 2, SE quad - Zone 1A Catalog #: 23

Artifacts:

1	quartzite flake
1	quartz flake with cortex
2	***lot sum***

TU N29 E20, level 2, Floor Scrape - Zone 1A Catalog #: 26

Artifacts:

1	quartzite flake with cortex
1	***lot sum***

TU N29 E20, level 3, SE quad - Zone 1B Catalog #: 27

Artifacts:

8	quartzite flake (2 with cortex)
7	quartz flake
1	chert flake
1	quartz utilized flake
1	quartz worked/tested cobble with cortex
18	***lot sum***

TU N29 E20, level 3, SW quad - Zone 1B Catalog #: 28

Artifacts:

1	quartz biface fragment
1	quartzite biface fragment
1	fire-cracked rock
2	rhyolite flake
8	quartz flake (5 with cortex)
3	quartzite flake (1 with cortex)
2	quartz flake tool
1	quartz shatter
1	quartz utilized flake
20	***lot sum***

TU N29 E20, level 3, NW quad - Zone 1B Catalog #: 29

Artifacts:

1	quartzite flake with cortex
7	quartz flake (1 with cortex)
1	rhyolite flake
1	quartz utilized flake

		10	*lot sum*

TU N29 E20, level 3, NE quad - Zone 1B Catalog #: 30

Artifacts:

1	quartz biface fragment
7	quartz flake (2 with cortex)
4	quartzite flake (1 with cortex)
12	*lot sum*

TU N29 E20, level 4, NE quad - Zone 2 Catalog #: 31

Artifacts:

15	quartz flake (1 with cortex)
5	quartzite flake (1 with cortex)
2	quartzite utilized flake (1 with cortex)
1	quartz utilized flake with cortex
23	*lot sum*

TU N29 E20, level 4, SE quad - Zone 2 Catalog #: 32

Artifacts:

1	fire-cracked rock (7.08 g)
6	quartz flake (2 with cortex)
2	rhyolite flake
5	quartzite flake
1	quartz shatter
1	quartzite utilized flake
16	*lot sum*

TU N29 E20, level 4, SW quad - Zone 2 Catalog #: 33

Artifacts:

1	quartzite biface fragment with cortex
1	fire-cracked rock (7.08 g)
7	quartzite flake (3 with cortex)
12	quartz flake
1	quartz shatter
22	*lot sum*

TU N29 E20, level 4, NW quad - Zone 2 Catalog #: 34

Artifacts:

1	fire-cracked rock (35.43 g)
2	rhyolite flake

2	quartzite flake (1 with cortex)
8	quartz flake (1 with cortex)
1	chert flake
1	quartz shatter with cortex
1	quartz utilized flake
1	quartzite worked/tested cobble with cortex
17	***lot sum***

TU N29 E20, level 5, NE quad - Zone 3 Catalog #: 35

Artifacts:

2	quartzite flake
7	quartz flake (1 with cortex)
9	***lot sum***

TU N29 E20, level 5, SW quad - Zone 3 Catalog #: 36

Artifacts:

2	quartz flake
2	***lot sum***

TU N29 E20, level 5, SE quad - Zone 3 Catalog #: 37

Artifacts:

2	quartz flake
1	quartz shatter
3	***lot sum***

TU N30 E19 — *152 Total Artifacts*

TU N30 E19, level 1, - Zone 1A Catalog #: 38

Artifacts:

1	fire-cracked rock (70.87 g)
1	rhyolite flake
2	quartz flake
1	quartzite utilized flake with cortex
5	***lot sum***

TU N30 E19, level 2, SW quad - Zone 1A Catalog #: 39

Artifacts:

1	quartz early-mid stage biface fragment with cortex
1	fine shell and grit temper - Sullivan Cove
1	quartz flake

			3 ***lot sum***
TU N30 E19, level 2, NE quad - Zone 1A	Catalog #:	40	Artifacts:
			1 quartz contracting stem point
			3 quartzite flake
			4 ***lot sum***
TU N30 E19, level 2, NW quad - Zone 1A	Catalog #:	41	Artifacts:
			1 quartzite flake with cortex
			1 ***lot sum***
TU N30 E19, level 2, Floor Scrape - Zone 1A	Catalog #:	42	Artifacts:
			1 rhyolite biface fragment
			1 quartz flake
			2 ***lot sum***
TU N30 E19, level 3, SE quad - Zone 1B	Catalog #:	43	Artifacts:
			1 quartzite flake
			1 quartz Late Woodland traingle point
			2 ***lot sum***
TU N30 E19, level 3, SW quad - Zone 1B	Catalog #:	44	Artifacts:
			3 fire-cracked rock (269.32 g)
			1 rhyolite flake
			4 quartzite flake (1 with cortex)
			1 quartzite misc. chipped stone tool
			1 quartz utilized flake
			10 ***lot sum***
TU N30 E19, level 3, NE quad - Zone 1B	Catalog #:	45	Artifacts:
			1 fire-cracked rock (35.43 g)
			2 quartzite flake
			1 quartz flake
			4 ***lot sum***

TU N30 E19, level 3, NW quad - Zone 1B Catalog #: 46

Artifacts:

3	quartz flake (1 with cortex)
1	quartzite flake with cortex
4	***lot sum***

TU N30 E19, level 3A, SW quad - Zone 2 Catalog #: 47

Artifacts:

9	quartzite flake (1 with cortex)
9	***lot sum***

TU N30 E19, level 3A, SE quad - Zone 2 Catalog #: 48

Artifacts:

1	quartzite flake with cortex
1	quartzite flake tool with cortex
2	***lot sum***

TU N30 E19, level 3A, NW quad - Zone 2 Catalog #: 49

Artifacts:

1	quartzite core
2	fire-cracked rock (148.83 g)
3	quartzite flake
6	quartz flake
1	quartz flake tool with cortex
1	quartzite Piscataway point, proximal section
14	***lot sum***

TU N30 E19, level 3A, NE quad - Zone 2 Catalog #: 50

Artifacts:

6	quartzite flake (1 with cortex)
1	quartz flake
1	quartz shatter
8	***lot sum***

TU N30 E19, level 4, NW quad - Zone 2 Catalog #: 51

Artifacts:

1	rhyolite flake
8	quartz flake
8	quartzite flake
17	***lot sum***

TU N30 E19, level 4, NE quad - Zone 2 Catalog #: 52

Artifacts:

1	fire-cracked rock (7.08 g)
1	rhyolite flake
7	quartzite flake (1 with cortex)
2	quartz flake (1 with cortex)
11	***lot sum***

TU N30 E19, level 4, SE quad - Zone 2 Catalog #: 53

Artifacts:

2	fire-cracked rock (70.87 g)
6	quartzite flake (3 with cortex)
2	quartz flake
1	quartz cobble fragment with cortex
11	***lot sum***

TU N30 E19, level 4, SW quad - Zone 2 Catalog #: 54

Artifacts:

3	crushed quartz and grit - Accokeek
22	quartzite flake (3 with cortex)
1	quartz flake with cortex
2	rhyolite flake
5	quartz utilized flake (3 with cortex)
33	***lot sum***

TU N30 E19, level 5, SE quad - Zone 3 Catalog #: 55

Artifacts:

1	fire-cracked rock (113.39 g)
4	quartz flake
1	hammerstone
6	***lot sum***

TU N30 E19, level 5, SW quad - Zone 3 Catalog #: 56

Artifacts:

5	quartz flake
5	***lot sum***

TU N30 E19, level 5, NE quad - Zone 3 Catalog #: 57

Artifacts:

1	quartz flake

1	*lot sum*

STP N30 E20 — 220 *Total Artifacts*

STP N30 E20, level 2, - Zone 1A Catalog #: 4

Artifacts:

3	quartzite flake (2 with cortex)
1	quartz flake with cortex
1	quartz worked/tested cobble with cortex
5	*lot sum*

TU N30 E20, level 1, - Zone 1A Catalog #: 58

Artifacts:

1	quartz flake
1	*lot sum*

TU N30 E20, level 2, NW quad - Zone 1A Catalog #: 60

Artifacts:

1	quartz biface fragment
1	*lot sum*

TU N30 E20, level 2, SW quad - Zone 1A Catalog #: 61

Artifacts:

1	fire-cracked rock (14.17 g)
1	quartz flake
2	quartzite flake (1 with cortex)
4	*lot sum*

STP N30 E20, level 3, - Zone 1B Catalog #: 5

Artifacts:

1	rhyolite flake
1	quartz flake
7	quartzite flake (3 with cortex)
9	*lot sum*

TU N30 E20, level 3, SE quad - Zone 1B Catalog #: 62

Artifacts:

1	quartzite flake
9	quartz flake (2 with cortex)
1	rhyolite flake
11	*lot sum*

TU N30 E20, level 3, SW quad - Zone 1B Catalog #: 63

Artifacts:

1	fire-cracked rock (21.26 g)
3	quartzite flake (1 with cortex)
4	quartz flake (1 with cortex)
8	***lot sum***

TU N30 E20, level 3, NE quad - Zone 1B Catalog #: 64

Artifacts:

1	fire-cracked rock (42.52 g)
3	quartz flake
2	quartzite flake (1 with cortex)
6	***lot sum***

TU N30 E20, level 3, NW quad - Zone 1B Catalog #: 65

Artifacts:

5	quartzite flake (1 with cortex)
5	quartz flake (1 with cortex)
10	***lot sum***

TU N30 E20, level 3A, SE quad - Zone 2 Catalog #: 66

Artifacts:

2	fire-cracked rock (63.78 g)
2	quartzite flake
3	quartz flake
1	rhyolite flake
2	quartz shatter
10	***lot sum***

TU N30 E20, level 3A, SW quad - Zone 2 Catalog #: 67

Artifacts:

1	fire-cracked rock (14.17 g)
4	quartz flake
1	quartz shatter with cortex
6	***lot sum***

TU N30 E20, level 3A, NE quad - Zone 2 Catalog #: 68

Artifacts:

6	quartz flake
2	quartzite flake (2 with cortex)
1	steatite/soapstone -Marcey Creek
9	***lot sum***

TU N30 E20, level 3A, NW quad - Zone 2 Catalog #: 69

Artifacts:

3	quartzite flake (1 with cortex)
4	quartz flake
1	rhyolite flake tool
1	quartzite flake tool with cortex
1	quartz utilized flake
10	***lot sum***

TU N30 E20, level 4, NW quad - Zone 2 Catalog #: 70

Artifacts:

1	quartzite flake
1	quartz flake
1	chert flake
3	***lot sum***

TU N30 E20, level 4, NE quad - Zone 2 Catalog #: 71

Artifacts:

1	quartzite biface fragment
5	quartz flake
7	quartzite flake
1	chert flake
1	rhyolite flake
1	quartz utilized flake
16	***lot sum***

TU N30 E20, level 4, SE quad - Zone 2 Catalog #: 72

Artifacts:

1	quartz biface fragment with cortex
1	fire-cracked rock (56.69 g)
12	quartz flake (1 with cortex)
18	quartzite flake
2	quartzite utilized flake (1 with cortex)
34	***lot sum***

TU N30 E20, level 4, SW quad - Zone 2 Catalog #: 73

Artifacts:

1	quartz biface fragment
1	quartzite early-mid stage biface fragment
2	fire-cracked rock (127.57 g)

1	rhyolite flake
4	quartzite flake (1 with cortex)
6	quartz flake
1	quartzite utilized flake
16	***lot sum***

TU N30 E20, level 5, NW quad - Zone 3 Catalog #: 74

Artifacts:

1	quartzite flake
1	***lot sum***

TU N30 E20, level 5, SW quad - Zone 3 Catalog #: 75

Artifacts:

1	rhyolite flake
5	quartz flake (1 with cortex)
2	quartzite flake (1 with cortex)
8	***lot sum***

TU N30 E20, level 5, SE quad - Zone 3 Catalog #: 76

Artifacts:

13	quartz flake (3 with cortex)
8	quartzite flake (1 with cortex)
1	quartz flake tool with cortex
1	quartzite point fragment, proximal fragment, stemmed variant
1	quartz shatter
24	***lot sum***

TU N30 E20, level 5, NE quad - Zone 3 Catalog #: 77

Artifacts:

2	fire-cracked rock (42.52 g)
6	quartz flake (1 with cortex)
3	quartzite flake
1	quartz flake tool with cortex
12	***lot sum***

TU N30 E20, level 6, NE quad - Zone 4 Catalog #: 78

Artifacts:

1	quartzite core
3	fire-cracked rock (226.79 g)

1	chert flake
2	quartzite flake
2	quartz flake (1 with cortex)
2	quartz utilized flake (1 with cortex)
11	***lot sum***

TU N30 E20, level 6, SE quad - Zone 4 Catalog #: 79

Artifacts:

1	rhyolite flake
3	quartz flake
1	quartzite flake
5	***lot sum***

Block 1 artifact total = **711**

Block 2

TU 01 ***18 Total Artifacts***

TU 1, level 1, - Zone 1A Catalog #: 82

Artifacts:

1	rhyolite flake
1	quartz utilized flake with cortex
2	***lot sum***

TU 1, level 2, SE quad - Zone 1A Catalog #: 83

Artifacts:

1	rhyolite flake
1	***lot sum***

TU 1, level 2, SW quad - Zone 1A Catalog #: 84

Artifacts:

1	quartzite flake
1	quartz utilized flake
2	***lot sum***

TU 1, level 2, NE quad - Zone 1A Catalog #: 85

Artifacts:

1	quartzite flake with cortex
1	hammerstone
2	***lot sum***

TU 1, level 2A, - Zone 1A Catalog #: 86

Artifacts:

3	quartzite flake (2 with cortex)

			3 *lot sum*
TU 1, level 3, SW quad - Zone 1B	Catalog #:	87	Artifacts:
			1 quartz flake with cortex
			2 quartzite flake
			1 quartzite point fragment, distal fragment
			4 *lot sum*
TU 1, level 3, NE quad - Zone 1B	Catalog #:	88	Artifacts:
			1 quartz flake
			1 *lot sum*
TU 1, level 3, NW quad - Zone 1B	Catalog #:	89	Artifacts:
			1 quartzite flake
			1 *lot sum*
TU 1, level 4, SW quad - Zone 2	Catalog #:	90	Artifacts:
			1 quartz flake
			1 hammerstone
			2 *lot sum*
TU 02			22 *Total Artifacts*
TU 2, level 1, - Zone 1A	Catalog #:	91	Artifacts:
			2 quartzite flake (2 with cortex)
			2 rhyolite flake
			1 quartz shatter
			1 quartzite utilized flake
			1 quartz utilized flake with cortex
			1 quartzite worked/tested cobble with cortex
			8 *lot sum*
TU 2, level 2, NW quad - Zone 1A	Catalog #:	92	Artifacts:
			1 quartzite flake
			1 quartz flake
			2 *lot sum*
TU 2, level 2, SE quad - Zone 1A	Catalog #:	93	Artifacts:
			1 quartz utilized flake

			1 *lot sum*
TU 2, level 2, SW quad - Zone 1A	Catalog #:	94	Artifacts:
			1 quartzite flake
			1 *lot sum*
TU 2, level 3, NE quad - Zone 1B	Catalog #:	95	Artifacts:
			3 quartz flake (1 with cortex)
			3 *lot sum*
TU 2, level 3, SW quad - Zone 1B	Catalog #:	96	Artifacts:
			1 quartz flake
			1 quartz shatter
			2 *lot sum*
TU 2, level 3, SE quad - Zone 1B	Catalog #:	97	Artifacts:
			1 quartz utilized flake with cortex
			1 *lot sum*
TU 2, level 4, Clean-up - Zone 2	Catalog #:	98	Artifacts:
			1 quartz utilized flake
			1 *lot sum*
TU 2, level 4, NE quad - Zone 2	Catalog #:	99	Artifacts:
			1 quartz flake
			1 *lot sum*
TU 2, level 5, SW quad - Zone 3	Catalog #:	100	Artifacts:
			1 quartz utilized flake
			1 *lot sum*
TU 2, level 5, NE quad - Zone 3	Catalog #:	101	Artifacts:
			1 quartz utilized flake
			1 *lot sum*
TU 03			26 *Total Artifacts*
TU 3, level 1, - Zone 1A	Catalog #:	102	Artifacts:
			4 quartz flake

			4 *lot sum*
TU 3, level 2, SE quad - Zone 1A	Catalog #:	103	Artifacts:
			1 quartzite flake
			1 quartz flake
			2 *lot sum*
TU 3, level 2, NE quad - Zone 1A	Catalog #:	104	Artifacts:
			1 chert shatter with cortex
			1 quartzite utilized flake with cortex
			1 quartz utilized flake
			3 *lot sum*
TU 3, level 2A, - Zone 1A	Catalog #:	105	Artifacts:
			1 rhyolite biface fragment
			1 fire-cracked rock (14 g)
			3 quartzite flake (2 with cortex)
			1 quartz flake with cortex
			1 quartzite worked/tested cobble with cortex
			7 *lot sum*
TU 3, level 3, SW quad - Zone 1B	Catalog #:	106	Artifacts:
			1 quartz flake
			1 *lot sum*
TU 3, level 3, NE quad - Zone 1B	Catalog #:	107	Artifacts:
			1 quartzite flake
			1 *lot sum*
TU 3, level 4, SW quad - Zone 2	Catalog #:	108	Artifacts:
			2 quartz flake
			2 *lot sum*
TU 3, level 4, NE quad - Zone 2	Catalog #:	109	Artifacts:
			2 fire-cracked rock (382.71 g)
			1 quartzite flake with cortex
			3 *lot sum*
TU 3, level 5, NE quad - Zone 3	Catalog #:	110	Artifacts:

		1	quartz flake
		1	***lot sum***
TU 3, level 5, SE quad - Zone 3	Catalog #: 111	Artifacts:	
		1	quartz flake
		1	quartz utilized flake
		2	***lot sum***

TU 04 — *18 Total Artifacts*

TU 4, level 1, - Zone 1A	Catalog #: 112	Artifacts:	
		2	quartz flake
		1	quartz Late Woodland triangle point
		3	***lot sum***
TU 4, level 2, NE quad - Zone 1A	Catalog #: 113	Artifacts:	
		1	quartz flake
		1	***lot sum***
TU 4, level 2, SW quad - Zone 1A	Catalog #: 114	Artifacts:	
		1	quartz flake
		1	***lot sum***
TU 4, level 2, SE quad - Zone 1A	Catalog #: 115	Artifacts:	
		2	quartz flake (1 with cortex)
		2	***lot sum***
TU 4, level 2/3, Floor Scrape - Zone 1B	Catalog #: 116	Artifacts:	
		1	quartz flake
		1	***lot sum***
TU 4, level 3, NE quad - Zone 1B	Catalog #: 117	Artifacts:	
		1	quartz flake
		1	***lot sum***
TU 4, level 3, SE quad - Zone 1B	Catalog #: 118	Artifacts:	
		1	quartz utilized flake with cortex
		1	***lot sum***

TU 4, level 4, SE quad - Zone 2	Catalog #: 119	Artifacts:	
		1	quartz utilized flake
		1	***lot sum***
TU 4, level 4, NE quad - Zone 2	Catalog #: 120	Artifacts:	
		1	quartzite flake with cortex
		1	***lot sum***
TU 4, level 4, NW quad - Zone 2	Catalog #: 121	Artifacts:	
		1	quartz misc. chipped stone tool
		1	***lot sum***
TU 4, level 4, Floor Scrape - Zone 2	Catalog #: 125	Artifacts:	
		1	quartz misc. chipped stone tool
		1	***lot sum***
TU 4, level 5, SW quad - Zone 3	Catalog #: 122	Artifacts:	
		1	bone
		1	***lot sum***
TU 4, level 5, SE quad - Zone 3	Catalog #: 123	Artifacts:	
		1	bone
		1	***lot sum***
TU 4, level 5, NE quad - Zone 3	Catalog #: 124	Artifacts:	
		1	quartzite flake with cortex
		1	***lot sum***
TU 4, level 6, SE quad - Zone 4	Catalog #: 126	Artifacts:	
		1	quartzite flake with cortex
		1	***lot sum***

TU 05/N34 E15 — *46* *Total Artifacts*

TU N34 E15, level 1, - Zone 1A	Catalog #: 14	Artifacts:	
		3	fire-cracked rock (127.57 g)
		1	quartz flake with cortex
		1	quartzite flake with cortex

			5 *lot sum*
TU N34 E15, level 2, - Zone 1A	Catalog #:	15	Artifacts:
			3 quartzite flake (3 with cortex)
			1 quartz flake
			4 *lot sum*
TU N34 E15, level 3, - Zone 1B	Catalog #:	16	Artifacts:
			1 quartzite early-mid stage biface fragment
			7 fire-cracked rock (229.63 g)
			5 quartzite flake (2 with cortex)
			5 quartz flake (3 with cortex)
			1 quartz worked/tested cobble with cortex
			19 *lot sum*
TU N34 E15, level 4, - Zone 2	Catalog #:	17	Artifacts:
			3 fire-cracked rock (31.18 g)
			3 quartzite flake (2 with cortex)
			1 rhyolite flake
			1 chert flake
			8 *lot sum*
TU N34 E15, level 5, - Zone 3	Catalog #:	18	Artifacts:
			6 quartz flake
			6 *lot sum*
TU N34 E15, level 6, - Zone 4	Catalog #:	19	Artifacts:
			1 quartzite flake
			2 quartz flake
			3 *lot sum*
TU N34 E15, level 7, - Zone 4	Catalog #:	20	Artifacts:
			1 quartz flake with cortex
			1 *lot sum*
TU 06			122 *Total Artifacts*
TU 6, level 1, - Zone 1A	Catalog #:	127	Artifacts:
			1 quartz flake with cortex
			1 quartz utilized flake

			2 *lot sum*
TU 6, level 2, SW quad - Zone 1A	Catalog #:	128	Artifacts:
			1 quartzite flake with cortex
			1 quartz flake
			2 *lot sum*
TU 6, level 2, NW quad - Zone 1A	Catalog #:	129	Artifacts:
			1 quartz flake with cortex
			1 *lot sum*
TU 6, level 2, SE quad - Zone 1A	Catalog #:	130	Artifacts:
			1 quartzite flake
			2 quartz flake (1 with cortex)
			1 quartz utilized flake
			4 *lot sum*
TU 6, level 2A, - Zone 1A	Catalog #:	131	Artifacts:
			2 fire-cracked rock (56.69 g)
			1 quartzite flake with cortex
			1 quartz flake
			3 quartz utilized flake
			7 *lot sum*
TU 6, level 3, SW quad - Zone 1B	Catalog #:	132	Artifacts:
			1 fire-cracked rock (113.39 g)
			1 quartz flake
			2 *lot sum*
TU 6, level 3, SE quad - Zone 1B	Catalog #:	133	Artifacts:
			2 rhyolite flake
			1 quartz utilized flake
			3 *lot sum*
TU 6, level 3, NW quad - Zone 1B	Catalog #:	134	Artifacts:
			2 fire-cracked rock (99.22 g)
			1 quartzite flake
			1 quartz Piscataway point, proximal section
			4 *lot sum*

TU 6, level 3, NE quad - Zone 1B Catalog #: 135

Artifacts:

1	quartz flake with cortex
1	chert flake
2	***lot sum***

TU 6, level 3, Clean-up - Zone 1B Catalog #: 136

Artifacts:

2	quartzite flake (1 with cortex)
2	***lot sum***

TU 6, level 4, Clean-up - Zone 2 Catalog #: 137

Artifacts:

4	quartzite flake
1	quartz flake
5	***lot sum***

TU 6, level 4, SW quad - Zone 2 Catalog #: 138

Artifacts:

5	quartzite flake (2 with cortex)
5	quartz flake
2	quartzite shatter
4	quartz utilized flake
16	***lot sum***

TU 6, level 4, SE quad - Zone 2 Catalog #: 139

Artifacts:

1	rhyolite flake
1	chert flake
3	quartzite flake
7	quartz flake (1 with cortex)
1	quartz point fragment, distal/tip fragment
5	quartzite shatter (5 with cortex)
1	quartz shatter
1	quartz utilized flake
20	***lot sum***

TU 6, level 4, NW quad - Zone 2 Catalog #: 140

Artifacts:

1	fire-cracked rock (1 g)
1	quartz flake with cortex
2	***lot sum***

TU 6, level 4, NE quad - Zone 2 Catalog #: 141

Artifacts:

1	quartzite misc. chipped stone tool

			1 ***lot sum***
TU 6, level 4, Floor Scrape - Zone 2	Catalog #:	142	Artifacts:
			1 quartz flake with cortex
			1 ***lot sum***
TU 6, level 5, SW quad - Zone 3	Catalog #:	143	Artifacts:
			1 fire-cracked rock (14.17 g)
			7 quartzite flake (2 with cortex)
			10 quartz flake (4 with cortex)
			1 quartzite shatter
			3 quartz utilized flake (2 with cortex)
			22 ***lot sum***
TU 6, level 5, NE quad - Zone 3	Catalog #:	144	Artifacts:
			1 quartzite flake
			2 quartz flake
			3 ***lot sum***
TU 6, level 5, NW quad - Zone 3	Catalog #:	145	Artifacts:
			4 quartz flake
			1 quartz utilized flake
			5 ***lot sum***
TU 6, level 5, SE quad - Zone 3	Catalog #:	146	Artifacts:
			2 quartzite flake (2 with cortex)
			4 quartz flake
			1 rhyolite flake
			2 quartzite shatter
			1 quartz utilized flake
			10 ***lot sum***
TU 6, level 6, NE quad - Zone 4	Catalog #:	147	Artifacts:
			2 chert shatter
			2 ***lot sum***
TU 6, level 6, SE quad - Zone 4	Catalog #:	148	Artifacts:
			3 quartz flake

			3 *lot sum*
TU 6, level 7, SE quad - Zone 4	Catalog #:	149	Artifacts:
			1 quartzite flake with cortex
			2 quartz flake
			3 *lot sum*

TU 07	31	***Total Artifacts***

TU 7, level 1, - Zone 1A	Catalog #:	150	Artifacts:
			1 quartz utilized flake with cortex
			1 *lot sum*
TU 7, level 2, NW quad - Zone 1A	Catalog #:	151	Artifacts:
			1 quartz flake with cortex
			1 *lot sum*
TU 7, level 2, NE quad - Zone 1A	Catalog #:	152	Artifacts:
			1 quartzite flake
			1 quartz utilized flake
			2 *lot sum*
TU 7, level 2A, - Zone 1A	Catalog #:	153	Artifacts:
			3 quartz flake
			2 quartz utilized flake (1 with cortex)
			5 *lot sum*
TU 7, level 3, NE quad - Zone 1B	Catalog #:	154	Artifacts:
			2 quartz flake
			2 *lot sum*
TU 7, level 3, SW quad - Zone 1B	Catalog #:	155	Artifacts:
			2 fire-cracked rock (28 g)
			1 quartzite flake with cortex
			4 quartz flake (1 with cortex)
			7 *lot sum*
TU 7, level 3, SE quad - Zone 1B	Catalog #:	156	Artifacts:
			2 quartzite flake
			1 quartzite flake tool with cortex

			3 *lot sum*
TU 7, level 3, NW quad - Zone 1B	Catalog #:	157	Artifacts:
			1 quartzite flake
			1 quartz flake
			2 *lot sum*
TU 7, level 4, NW quad - Zone 2	Catalog #:	158	Artifacts:
			1 quartz worked/tested cobble with cortex
			1 *lot sum*
TU 7, level 4, SE quad - Zone 2	Catalog #:	159	Artifacts:
			1 quartz worked/tested cobble with cortex
			1 *lot sum*
TU 7, level 4, SW quad - Zone 2	Catalog #:	160	Artifacts:
			1 chert flake with cortex
			1 quartz utilized flake
			2 *lot sum*
TU 7, level 4, NE quad - Zone 2	Catalog #:	161	Artifacts:
			1 quartz core
			1 *lot sum*
TU 7, level 5, SE quad - Zone 3	Catalog #:	162	Artifacts:
			1 quartz flake
			1 *lot sum*
TU 7, level 5, NE quad - Zone 3	Catalog #:	164	Artifacts:
			1 quartz biface fragment
			1 quartz utilized flake
			2 *lot sum*
TU 08			167 *Total Artifacts*
TU 8, level 1, - Zone 1A	Catalog #:	165	Artifacts:
			1 fire-cracked rock (7.08 g)
			2 quartzite flake
			1 quartz flake
			1 quartz point fragment, distal/tip fragment

			5 *lot sum*
TU 8, level 2, NW quad - Zone 1A	Catalog #:	166	Artifacts:
			1 quartzite flake
			1 quartz utilized flake
			2 *lot sum*
TU 8, level 2, NE quad - Zone 1A	Catalog #:	167	Artifacts:
			1 quartzite flake
			1 *lot sum*
TU 8, level 2, SW quad - Zone 1A	Catalog #:	168	Artifacts:
			1 quartz biface fragment
			1 quartzite flake
			2 *lot sum*
TU 8, level 2, SE quad - Zone 1A	Catalog #:	169	Artifacts:
			2 quartzite flake (1 with cortex)
			1 quartz utilized flake
			3 *lot sum*
TU 8, level 2, Base Clear - Zone 1A	Catalog #:	170	Artifacts:
			1 quartz utilized flake
			1 *lot sum*
TU 8, level 2A, - Zone 1A	Catalog #:	171	Artifacts:
			1 fire-cracked rock (56.69 g)
			3 quartzite flake (2 with cortex)
			1 quartzite treardrop/ovate variant point base, possible Rossville variant
			5 *lot sum*
TU 8, level 3, SE quad - Zone 1B	Catalog #:	172	Artifacts:
			2 fire-cracked rock (28.34 g)
			7 quartzite flake
			2 quartz flake
			1 quartz flake tool
			1 quartz utilized flake
			13 *lot sum*

TU 8, level 3, NE quad - Zone 1B Catalog #: 173

Artifacts:

5	quartzite flake (1 with cortex)
1	quartz flake with cortex
1	jasper flake
2	quartz utilized flake (2 with cortex)
9	***lot sum***

TU 8, level 3, SW quad - Zone 1B Catalog #: 174

Artifacts:

1	quartzite biface fragment
1	rhyolite flake
5	quartz flake (3 with cortex)
2	quartzite flake
2	quartzite shatter
2	quartzite utilized flake
13	***lot sum***

TU 8, level 3, NW-Top of quad - Zone 1B Catalog #: 175

Artifacts:

1	quartz flake
1	***lot sum***

TU 8, level 3, NW-Bottom of quad - Zone 1B Catalog #: 176

Artifacts:

1	quartz early-mid stage biface fragment
3	quartzite flake (2 with cortex)
2	quartz flake
1	chert flake
1	quartzite flake tool
1	quartz flake tool
1	quartz utilized flake
10	***lot sum***

TU 8, level 3, Plowscar - Zone 1B Catalog #: 177

Artifacts:

3	quartzite flake
1	rhyolite flake
1	quartz utilized flake
5	***lot sum***

TU 8, level 4, Clean-up - Zone 2 Catalog #: 178

Artifacts:

1	quartzite flake
1	***lot sum***

TU 8, level 4, NE quad - Zone 2 Catalog #: 179

Artifacts:

5	fire-cracked rock (262.23 g)
1	jasper flake
1	rhyolite flake
3	quartz flake (2 with cortex)
8	quartzite flake
2	quartz flake tool (1 with cortex)
1	quartz utilized flake with cortex
1	quartzite utilized flake
22	***lot sum***

TU 8, level 4, SW quad - Zone 2 Catalog #: 180

Artifacts:

4	quartzite flake (2 with cortex)
6	quartz flake (3 with cortex)
1	quartz utilized flake
11	***lot sum***

TU 8, level 4, SE quad - Zone 2 Catalog #: 181

Artifacts:

1	quartzite contracting stem point/ Late Archaic - Middle Woodland variant
1	fire-cracked rock (28.34 g)
2	quartzite flake
12	quartz flake
3	rhyolite flake
2	quartz utilized flake (1 with cortex)
21	***lot sum***

TU 8, level 4, NW quad - Zone 2 Catalog #: 182

Artifacts:

2	fire-cracked rock (28.34 g)
1	quartzite flake
10	quartz flake
13	***lot sum***

TU 8, level 5, SW quad - Zone 3 Catalog #: 183

Artifacts:

2	quartzite flake (1 with cortex)
1	quartz point fragment, distal/tip fragment

		1	quartz utilized flake
		4	***lot sum***
TU 8, level 5, NE quad - Zone 3	Catalog #: 184	Artifacts:	
		2	quartzite flake
		8	quartz flake (1 with cortex)
		10	***lot sum***
TU 8, level 5, SE quad - Zone 3	Catalog #: 185	Artifacts:	
		1	quartzite flake
		2	quartz flake
		1	quartzite point fragment, distal fragment
		1	quartz utilized flake
		5	***lot sum***
TU 8, level 5, NW quad - Zone 3	Catalog #: 186	Artifacts:	
		2	quartzite flake
		2	***lot sum***
TU 8, level 6, NE quad - Zone 4	Catalog #: 187	Artifacts:	
		3	quartz flake (1 with cortex)
		1	rhyolite flake
		4	***lot sum***
TU 8, level 6, SW quad - Zone 4	Catalog #: 188	Artifacts:	
		4	quartz flake
		4	***lot sum***
TU 09		***164***	***Total Artifacts***
TU 9, level 1, - Zone 1A	Catalog #: 189	Artifacts:	
		1	quartz early-mid stage biface fragment
		4	quartz flake
		1	quartz utilized flake
		6	***lot sum***
TU 9, level 2, NW quad - Zone 1A	Catalog #: 190	Artifacts:	
		2	quartzite flake
		2	quartz flake

			4 *lot sum*
TU 9, level 2, NE quad - Zone 1A	Catalog #:	191	Artifacts:
			4 quartz flake
			4 *lot sum*
TU 9, level 2, SE quad - Zone 1A	Catalog #:	192	Artifacts:
			2 quartzite flake
			1 quartz utilized flake
			3 *lot sum*
TU 9, level 2, SW quad - Zone 1A	Catalog #:	193	Artifacts:
			1 quartzite core with cortex
			1 quartz flake
			2 *lot sum*
TU 9, level 2A, - Zone 1A	Catalog #:	194	Artifacts:
			1 fire-cracked rock (42.52 g)
			1 quartz utilized flake
			2 *lot sum*
TU 9, level 3, NW quad - Zone 1B	Catalog #:	195	Artifacts:
			1 quartz flake
			1 quartzite flake with cortex
			1 rhyolite flake
			2 quartzite utilized flake (1 with cortex)
			5 *lot sum*
TU 9, level 3, NE quad - Zone 1B	Catalog #:	196	Artifacts:
			1 quartz biface fragment
			3 quartz flake
			1 quartzite Piscataway point, tip missing
			2 quartzite utilized flake
			2 quartz utilized flake
			9 *lot sum*
TU 9, level 3, SW quad - Zone 1B	Catalog #:	198	Artifacts:
			1 quartz utilized flake with cortex
			2 quartzite utilized flake

			3 ***lot sum***
TU 9, level 3, Plowscar - Zone 1B	Catalog #:	199	Artifacts:
			1 rhyolite flake
			2 quartzite flake
			2 quartz flake
			2 quartzite utilized flake
			7 ***lot sum***
TU 9, level 4, SE quad - Zone 2	Catalog #:	200	Artifacts:
			1 fire-cracked rock (28.34 g)
			1 rhyolite flake
			3 quartzite flake
			3 quartz flake
			1 quartzite utilized flake
			9 ***lot sum***
TU 9, level 4, NE quad - Zone 2	Catalog #:	201	Artifacts:
			1 fire-cracked rock (63.78 g)
			3 quartz flake (2 with cortex)
			1 quartzite flake
			1 quartzite utilized flake
			6 ***lot sum***
TU 9, level 4, SW quad - Zone 2	Catalog #:	202	Artifacts:
			1 quartzite early-mid stage biface fragment
			5 fire-cracked rock (411.06 g)
			5 quartzite flake (1 with cortex)
			23 quartz flake (2 with cortex)
			1 rhyolite flake
			1 quartz shatter
			2 quartz utilized flake
			38 ***lot sum***
TU 9, level 4, NW quad - Zone 2	Catalog #:	203	Artifacts:
			4 fire-cracked rock (240.97 g)
			5 quartzite flake (3 with cortex)
			17 quartz flake (1 with cortex)
			3 chert flake (1 with cortex)

1	quartz shatter
1	rhyolite utilized flake
31	***lot sum***

TU 9, level 5, NE quad - Zone 3 Catalog #: 204

Artifacts:

2	quartzite flake (1 with cortex)
2	quartz flake
4	***lot sum***

TU 9, level 5, SE quad - Zone 3 Catalog #: 205

Artifacts:

1	quartz flake
1	***lot sum***

TU 9, level 5, NW quad - Zone 3 Catalog #: 206

Artifacts:

4	quartz flake
1	chert flake with cortex
2	quartzite flake
1	quartz shatter
8	***lot sum***

TU 9, level 5, SW quad - Zone 3 Catalog #: 207

Artifacts:

1	quartzite flake
4	quartz flake
5	***lot sum***

TU 9, level 6, SE quad - Zone 4 Catalog #: 208

Artifacts:

4	quartz flake
4	***lot sum***

TU 9, level 6, NE quad - Zone 4 Catalog #: 209

Artifacts:

1	quartz biface fragment
1	quartzite flake
1	quartz point fragment, distal/tip fragment
3	***lot sum***

TU 9, level 6, SW quad - Zone 4 Catalog #: 210

Artifacts:

3	quartzite flake
1	quartz flake
4	***lot sum***

TU 9, level 6, NW quad - Zone 4	Catalog #: 211	Artifacts:	
		2	quartz flake
		1	quartzite flake
		1	quartzite point fragment, distal/tip fragment
		4	***lot sum***
TU 9, level 7, NE quad - Zone 4	Catalog #: 212	Artifacts:	
		2	quartz flake
		2	***lot sum***

TU 10 — *18 Total Artifacts*

TU 10, level 1, - Zone 1A	Catalog #: 213	Artifacts:	
		2	quartz flake
		1	quartz utilized flake
		3	***lot sum***
TU 10, level 2, - Zone 1A	Catalog #: 214	Artifacts:	
		3	quartzite flake (1 with cortex)
		3	quartz flake
		6	***lot sum***
TU 10, level 2A, - Zone 1A	Catalog #: 215	Artifacts:	
		2	quartz flake (2 with cortex)
		2	***lot sum***
TU 10, level 3, - Zone 1B	Catalog #: 216	Artifacts:	
		1	fire-cracked rock (60 g)
		1	quartzite flake
		2	***lot sum***
TU 10, level 4, SW quad - Zone 2	Catalog #: 217	Artifacts:	
		1	quartz utilized flake with cortex
		1	***lot sum***
TU 10, level 4, SE quad - Zone 2	Catalog #: 218	Artifacts:	
		1	quartz flake
		1	***lot sum***
TU 10, level 4, NE quad - Zone 2	Catalog #: 219	Artifacts:	

		1	quartz utilized flake
		1	***lot sum***
TU 10, level 4, NW quad - Zone 2	Catalog #: 220	Artifacts:	
		1	quartz flake
		1	***lot sum***
TU 10, level 5, SW quad - Zone 3	Catalog #: 221	Artifacts:	
		1	quartz flake
		1	***lot sum***

TU 11 — *100* *Total Artifacts*

TU 11, level 1, - Zone 1A	Catalog #: 222	Artifacts:	
		1	quartzite flake with cortex
		1	quartzite utilized flake with cortex
		2	***lot sum***
TU 11, level 2, - Zone 1A	Catalog #: 223	Artifacts:	
		1	quartzite early-mid stage biface fragment
		1	fire-cracked rock (35.43 g)
		1	quartz flake with cortex
		1	quartzite utilized flake with cortex
		4	***lot sum***
TU 11, level , Wall Clean-up - Zone 1A	Catalog #: 226	Artifacts:	
		2	quartz flake
		2	***lot sum***
TU 11, level 3, - Zone 1B	Catalog #: 224	Artifacts:	
		3	fire-cracked rock (318.93 g)
		5	rhyolite flake
		9	quartzite flake (1 with cortex)
		11	quartz flake (4 with cortex)
		1	quartz flake tool
		1	quartzite utilized flake with cortex
		3	quartz utilized flake (2 with cortex)
		33	***lot sum***

TU 11, level 3A, - Zone 2 Catalog #: 225

Artifacts:

1	quartz biface fragment
1	quartzite biface fragment
2	fire-cracked rock (42.52 g)
7	rhyolite flake
8	quartz flake (1 with cortex)
8	quartzite flake (1 with cortex)
1	quartzite late stage biface
28	***lot sum***

TU 11, level 4, NE quad - Zone 2 Catalog #: 227

Artifacts:

2	quartzite flake (2 with cortex)
2	quartz flake (1 with cortex)
1	rhyolite flake
1	quartz utilized flake
6	***lot sum***

TU 11, level 4, SE quad - Zone 2 Catalog #: 228

Artifacts:

2	quartzite flake
3	quartz flake (1 with cortex)
1	chert flake with cortex
6	***lot sum***

TU 11, level 4, SW quad - Zone 2 Catalog #: 229

Artifacts:

1	quartz flake
1	chert flake with cortex
2	***lot sum***

TU 11, level 4, NW quad - Zone 2 Catalog #: 230

Artifacts:

2	fire-cracked rock (127.57 g)
1	quartzite flake
1	chert flake
1	quartz flake
5	***lot sum***

TU 11, level 5, NW quad - Zone 3 Catalog #: 231

Artifacts:

2	quartz flake (1 with cortex)
2	***lot sum***

TU 11, level 5, SE quad - Zone 3 Catalog #: 232

Artifacts:

1	quartz flake
1	***lot sum***

TU 11, level 5, NE quad - Zone 3 Catalog #: 233

Artifacts:

1	quartzite flake
1	rhyolite flake
1	quartzite flake tool with cortex
3	***lot sum***

TU 11, level 6, NW quad - Zone 4 Catalog #: 234

Artifacts:

1	quartzite flake with cortex
1	quartz flake
1	rhyolite flake
3	***lot sum***

TU 11, level 6, NE quad - Zone 4 Catalog #: 235

Artifacts:

2	quartz flake
2	***lot sum***

TU 11, level 6, SE quad - Zone 4 Catalog #: 236

Artifacts:

1	quartzite flake
1	***lot sum***

TU 12 — *37* *Total Artifacts*

TU 12, level 1, - Zone 1A Catalog #: 237

Artifacts:

1	quartzite flake with cortex
1	quartz flake
1	quartz misc. chipped stone tool
3	***lot sum***

TU 12, level 2, - Zone 1A Catalog #: 238

Artifacts:

3	quartzite flake (1 with cortex)
2	quartz flake
1	quartz point fragment, distal fragment
1	chert shatter with cortex
7	***lot sum***

TU 12, level 3, - Zone 1B Catalog #: 239

Artifacts:

1	fire-cracked rock (42.52 g)
5	quartzite flake (1 with cortex)
2	quartz flake (1 with cortex)
1	rhyolite misc. chipped stone tool
1	quartzite utilized flake with cortex
1	quartz utilized flake with cortex
11	***lot sum***

TU 12, level 4, NW quad - Zone 2 Catalog #: 240

Artifacts:

1	quartz flake
1	***lot sum***

TU 12, level 4, SW quad - Zone 2 Catalog #: 241

Artifacts:

2	quartzite flake
2	***lot sum***

TU 12, level 4, NE quad - Zone 2 Catalog #: 242

Artifacts:

2	quartzite flake (1 with cortex)
1	quartzite utilized flake with cortex
3	***lot sum***

TU 12, level 4, SE quad - Zone 2 Catalog #: 243

Artifacts:

2	quartz flake
1	quartz utilized flake
3	***lot sum***

TU 12, level 5, NW quad - Zone 3 Catalog #: 244

Artifacts:

1	quartz flake
1	***lot sum***

TU 12, level 5, NE quad - Zone 3 Catalog #: 245

Artifacts:

1	quartz utilized flake
1	***lot sum***

TU 12, level 2nd 10cm level below buried Ap, Wall Clean-up - Zone 3 Catalog #: 249

Artifacts:

1	quartz biface fragment
1	hammerstone

			2 *lot sum*
TU 12, level 7, SW quad - Zone 4	Catalog #:	246	Artifacts:
			1 quartz flake
			1 *lot sum*
TU 12, level 7, NW quad - Zone 4	Catalog #:	247	Artifacts:
			1 chert flake with cortex
			1 *lot sum*
TU 12, level 7, SE quad - Zone 4	Catalog #:	248	Artifacts:
			1 quartz biface fragment
			1 *lot sum*
TU 13			85 *Total Artifacts*
TU 13, level 1, - Zone 1A	Catalog #:	250	Artifacts:
			1 quartzite utilized flake with cortex
			1 *lot sum*
TU 13, level 2, - Zone 1A	Catalog #:	251	Artifacts:
			1 quartz flake
			1 *lot sum*
TU 13, level 3, - Zone 1B	Catalog #:	252	Artifacts:
			1 quartzite early-mid stage biface fragment
			2 fire-cracked rock (42.52 g)
			1 quartzite fishtail/orient point
			20 quartzite flake (1 with cortex)
			2 quartz flake (1 with cortex)
			5 rhyolite flake
			1 quartzite flake tool with cortex
			2 quartz flake tool
			5 quartzite shatter
			5 quartzite utilized flake
			7 quartz utilized flake (2 with cortex)
			51 *lot sum*
TU 13, level 4, NE quad - Zone 2	Catalog #:	253	Artifacts:
			1 quartz flake

		7	rhyolite flake
		8	***lot sum***
TU 13, level 4, NW quad - Zone 2	Catalog #: 254	Artifacts:	
		1	rhyolite flake
		1	***lot sum***
TU 13, level 4, N 1/2 @ N wall - Zone 2	Catalog #: 255	Artifacts:	
		1	hammerstone
		1	***lot sum***
TU 13, level 4, SW quad - Zone 2	Catalog #: 256	Artifacts:	
		1	quartz point fragment, distal/tip fragment
		1	quartz utilized flake
		2	***lot sum***
TU 13, level 5, NW quad - Zone 3	Catalog #: 257	Artifacts:	
		1	rhyolite flake
		3	quartz flake
		1	chert flake
		5	***lot sum***
TU 13, level 5, NE quad - Zone 3	Catalog #: 258	Artifacts:	
		1	rhyolite flake
		4	quartz flake
		5	***lot sum***
TU 13, level 6, NE quad - Zone 4	Catalog #: 259	Artifacts:	
		3	quartzite flake (2 with cortex)
		2	quartz flake
		5	***lot sum***
TU 13, level 6, NW quad - Zone 4	Catalog #: 260	Artifacts:	
		5	quartz flake (3 with cortex)
		5	***lot sum***
TU 14		***54***	***Total Artifacts***
TU 14, level 2, - Zone 1A	Catalog #: 261	Artifacts:	

		1	quartz early-mid stage biface fragment with cortex
		4	fire-cracked rock (198.44 g)
		5	***lot sum***
TU 14, level 3, - Zone 1A	Catalog #: 262	Artifacts:	
		2	quartz flake
		2	***lot sum***
TU 14, level 4, - Zone 1B	Catalog #: 263	Artifacts:	
		1	rhyolite flake
		5	quartzite flake (2 with cortex)
		12	quartz flake (1 with cortex)
		1	quartzite utilized flake with cortex
		3	quartz utilized flake
		22	***lot sum***
TU 14, level 5, NW quad - Zone 2	Catalog #: 264	Artifacts:	
		2	quartzite flake
		2	***lot sum***
TU 14, level 5, SE quad - Zone 2	Catalog #: 265	Artifacts:	
		3	quartz flake
		1	quartzite flake
		1	quartz utilized flake
		5	***lot sum***
TU 14, level 5, SW quad - Zone 2	Catalog #: 266	Artifacts:	
		1	quartz flake
		1	***lot sum***
TU 14, level 5, NE quad - Zone 2	Catalog #: 267	Artifacts:	
		1	fire-cracked rock (7.08 g)
		1	quartz utilized flake
		2	***lot sum***
TU 14, level 6, SW quad - Zone 3	Catalog #: 268	Artifacts:	
		2	quartzite flake
		2	***lot sum***

TU 14, level 6, NW quad - Zone 3 Catalog #: 269

Artifacts:

1	quartzite flake
3	quartz flake
4	***lot sum***

TU 14, level 6, SE quad - Zone 3 Catalog #: 270

Artifacts:

1	quartz utilized flake
1	***lot sum***

TU 14, level 7, NW quad - Zone 4 Catalog #: 271

Artifacts:

1	quartz flake
1	***lot sum***

TU 14, level 7, NE quad - Zone 4 Catalog #: 272

Artifacts:

1	fire-cracked rock (1 g)
1	rhyolite flake
1	quartz Piscataway point
1	rhyolite utilized flake
4	***lot sum***

TU 14, level 8, NW quad - Zone 4 Catalog #: 273

Artifacts:

1	rhyolite flake
1	***lot sum***

TU 14, level 8, NE quad - Zone 4 Catalog #: 274

Artifacts:

1	fire-cracked rock (7.08 g)
1	quartz flake
2	***lot sum***

TU 15 — *91* *Total Artifacts*

TU 15, level 2, - Zone 1A Catalog #: 275

Artifacts:

5	quartz flake
1	rhyolite flake
6	***lot sum***

TU 15, level 3, - Zone 1A Catalog #: 276

Artifacts:

1	fire-cracked rock (42.52 g)
8	quartzite flake (1 with cortex)

1	rhyolite flake
1	quartzite flake tool with cortex
1	quartzite misc. chipped stone tool
1	quartzite Piscataway point, tip missing
1	quartz utilized flake
1	quartzite utilized flake with cortex
15	***lot sum***

TU 15, level , S 1/2 wall slump - Zone 1A Catalog #: 287

Artifacts:

1	quartz utilized flake
1	quartzite utilized flake with cortex
2	***lot sum***

TU 15, level 4, - Zone 1B Catalog #: 277

Artifacts:

2	fire-cracked rock (35.43 g)
10	quartzite flake (2 with cortex)
14	quartz flake (3 with cortex)
3	rhyolite flake
1	quartzite flake tool with cortex
1	quartzite misc. chipped stone tool
1	quartzite point fragment, distal fragment
6	quartz utilized flake
1	quartzite utilized flake
39	***lot sum***

TU 15, level 4, SW quad - Zone 1B Catalog #: 288

Artifacts:

1	small slate slab
1	***lot sum***

TU 15, level 5, SE quad - Zone 2 Catalog #: 278

Artifacts:

4	quartzite flake (1 with cortex)
1	chert flake
2	quartz flake tool (2 with cortex)
7	***lot sum***

TU 15, level 5, NW quad - Zone 2 Catalog #: 279

Artifacts:

1	quartzite flake
2	quartz flake

		1	quartz flake tool with cortex
		4	***lot sum***
TU 15, level 5, SW quad - Zone 2	Catalog #: 280	Artifacts:	
		2	quartzite flake
		1	jasper flake with cortex
		3	***lot sum***
TU 15, level 5, NE quad - Zone 2	Catalog #: 281	Artifacts:	
		1	quartzite early-mid stage biface fragment
		3	quartzite flake (1 with cortex)
		2	rhyolite flake
		1	quartz flake
		7	***lot sum***
TU 15, level 6, NW quad - Zone 3	Catalog #: 282	Artifacts:	
		1	quartzite flake
		1	quartzite utilized flake
		2	***lot sum***
TU 15, level 6, SE quad - Zone 3	Catalog #: 283	Artifacts:	
		1	quartzite flake
		1	quartz utilized flake with cortex
		2	***lot sum***
TU 15, level 7, SW quad - Zone 4	Catalog #: 284	Artifacts:	
		1	quartzite flake
		1	***lot sum***
TU 15, level 7, NE quad - Zone 4	Catalog #: 285	Artifacts:	
		1	rhyolite flake
		1	***lot sum***
TU 15, level 7, NW quad - Zone 4	Catalog #: 286	Artifacts:	
		1	quartz flake
		1	***lot sum***
TU 16		***111***	***Total Artifacts***
TU 16, level 1, - Zone 1A	Catalog #: 289	Artifacts:	

1	fire-cracked rock (7.08 g)
1	chert flake with cortex
1	quartzite flake
1	quartz flake
4	***lot sum***

TU 16, level 2, - Zone 1A Catalog #: 290

Artifacts:

2	fire-cracked rock (49.61 g)
5	quartzite flake
2	quartz flake
1	jasper flake with cortex
1	quartz flake tool with cortex
6	large fossil quartzite rind
2	quartz utilized flake
19	***lot sum***

TU 16, level 3, - Zone 1A Catalog #: 306

Artifacts:

2	quartz biface fragment
1	quartz early-mid stage biface fragment with cortex
6	fire-cracked rock (134.66 g)
20	quartzite flake (3 with cortex)
6	rhyolite flake
2	quartz flake (1 with cortex)
2	quartz flake tool (1 with cortex)
1	fossil quartzite rind
1	quartzite Piney Island stemmed point, tip missing
5	quartz utilized flake
46	***lot sum***

TU 16, level 4, SW quad - Zone 1B Catalog #: 291

Artifacts:

1	rhyolite flake
1	quartz flake
1	quartzite flake
1	quartzite point fragment, distal fragment
1	quartz utilized flake
5	***lot sum***

TU 16, level 4, NE quad - Zone 1B Catalog #: 292

Artifacts:

2	quartzite flake (1 with cortex)
2	***lot sum***

TU 16, level 4, SE quad - Zone 1B Catalog #: 293

Artifacts:

1	quartz early-mid stage biface fragment
5	quartzite flake (2 with cortex)
2	quartz flake
8	***lot sum***

TU 16, level 4, NW quad - Zone 1B Catalog #: 294

Artifacts:

2	quartz flake
1	quartz flake tool with cortex
3	***lot sum***

TU 16, level 5, NW quad - Zone 2 Catalog #: 295

Artifacts:

1	quartz flake
1	***lot sum***

TU 16, level 5, SE quad - Zone 2 Catalog #: 296

Artifacts:

2	fire-cracked rock (127.57 g)
1	quartzite flake with cortex
1	quartz flake
1	chert flake with cortex
1	quartz flake tool
6	***lot sum***

TU 16, level 5, SW quad - Zone 2 Catalog #: 297

Artifacts:

1	quartzite flake
1	quartz flake
1	quartz flake tool
3	***lot sum***

TU 16, level 5, NW quad - Zone 2 Catalog #: 298

Artifacts:

1	quartzite flake
1	quartz utilized flake
1	quartzite utilized flake with cortex
3	***lot sum***

TU 16, level 6, NE quad - Zone 3 Catalog #: 299

Artifacts:

1	quartz flake
1	***lot sum***

TU 16, level 6, SE quad - Zone 3 Catalog #: 300

Artifacts:

1	quartz flake
1	quartzite flake with cortex
2	***lot sum***

TU 16, level 7, NW quad - Zone 4 Catalog #: 301

Artifacts:

1	quartz utilized flake
1	***lot sum***

TU 16, level 7, SE quad - Zone 4 Catalog #: 302

Artifacts:

1	quartzite flake
1	rhyolite flake
1	quartz utilized flake
3	***lot sum***

TU 16, level 8, SE quad - Zone 4 Catalog #: 304

Artifacts:

1	quartz flake
1	quartz flake tool
2	***lot sum***

TU 16, level 8, SW quad - Zone 4 Catalog #: 305

Artifacts:

2	quartzite flake
2	***lot sum***

TU 2, 6, 8, 9, point provenienced artifact — *13* *Total Artifacts*

TU 2, 6, 8, 9, point provenienced artifacts, level 3, point prov, 1B/2 interface - Zone 1B Catalog #: 307

Artifacts:

See itemized list for proveniences of individual artifacts.

1	quartzite early-mid stage biface with cortex
5	fire-cracked rock (331.69 g)
2	quartzite flake
2	quartzite flake tool (2 with cortex)
1	quartz misc. chipped stone tool with cortex
1	quartzite misc. chipped stone tool with cortex
1	quartzite utilized flake with cortex

13	*lot sum*

Block 2 ***artifact total =*** **1123**

Sample Unit

STP	**N20 E20**	1 ***Total Artifacts***

STP N20 E20, level 3, - Zone 1B Catalog #: 1

Artifacts:

1	quartz flake
1	*lot sum*

TU	**N24 E15**	50 ***Total Artifacts***

TU N24 E15, level 1, - Zone 1A Catalog #: 395

Artifacts:

1	chert biface fragment
1	quartzite core with cortex
4	fire-cracked rock (184.27 g)
10	quartz flake
9	quartzite flake (2 with cortex)
1	rhyolite flake
1	chert flake tool with cortex
1	quartz point fragment, proximal fragment, stemmed variant
1	quartz utilized flake
29	*lot sum*

TU N24 E15, level 2, - Zone 1A Catalog #: 396

Artifacts:

1	quartz flake
4	quartzite flake
1	quartzite flake tool with cortex
3	quartz utilized flake (1 with cortex)
9	*lot sum*

TU N24 E15, level 3, - Zone 2 Catalog #: 397

Artifacts:

3	quartz flake (1 with cortex)
1	split cobble
4	*lot sum*

TU N24 E15, level 4, - Zone 3 Catalog #: 398

Artifacts:

2	quartz biface fragment
2	quartz flake
1	quartzite flake with cortex
1	quartz shatter
2	quartz utilized flake (1 with cortex)
8	***lot sum***

TU N24 E5 — *43 Total Artifacts*

TU N24 E5, level 1, - Zone 1A Catalog #: 382

Artifacts:

1	quartzite early-mid stage biface fragment
1	fire-cracked rock (21.26 g)
5	quartzite flake
1	quartz flake with cortex
1	quartzite flake tool with cortex
9	***lot sum***

TU N24 E5, level 1A, NW quad - Zone 1A Catalog #: 383

Artifacts:

1	rhyolite flake
1	***lot sum***

TU N24 E5, level 2, NW quad - Zone 1B Catalog #: 384

Artifacts:

1	quartzite flake
1	***lot sum***

TU N24 E5, level 2, SE quad - Zone 1B Catalog #: 385

Artifacts:

1	quartz flake tool
1	***lot sum***

TU N24 E5, level 2, NE quad - Zone 1B Catalog #: 386

Artifacts:

1	quartzite early-mid stage biface fragment
2	quartzite flake (1 with cortex)
2	quartz utilized flake (1 with cortex)
5	***lot sum***

TU N24 E5, level 2, SW quad - Zone 1B Catalog #: 387

Artifacts:

		1	quartzite core with cortex
		1	fire-cracked rock (14.17 g)
		2	quartzite flake (1 with cortex)
		1	quartz utilized flake with cortex
		5	***lot sum***
TU N24 E5, level 3, SW quad - Zone 2	Catalog #: 388	Artifacts:	
		1	quartzite flake
		1	quartz utilized flake
		2	***lot sum***
TU N24 E5, level 3, NW quad - Zone 2	Catalog #: 389	Artifacts:	
		1	fire-cracked rock (21.26 g)
		1	rhyolite flake
		2	quartz flake (1 with cortex)
		4	***lot sum***
TU N24 E5, level 3, SE quad - Zone 2	Catalog #: 390	Artifacts:	
		1	quartz flake
		1	quartz utilized flake with cortex
		2	***lot sum***
TU N24 E5, level 3, NE quad - Zone 2	Catalog #: 391	Artifacts:	
		3	quartz flake (3 with cortex)
		1	quartz flake tool with cortex
		1	quartzite point fragment
		2	quartzite shatter (1 with cortex)
		7	***lot sum***
TU N24 E5, level 4, NE quad - Zone 3	Catalog #: 392	Artifacts:	
		1	quartz utilized flake with cortex
		1	***lot sum***
TU N24 E5, level 7, NE quad - Zone 4	Catalog #: 393	Artifacts:	
		1	rhyolite Susquehanna Broadspear

1	quartz utilized flake
1	quartzite utilized flake
3	***lot sum***

TU N24 E5, level 8, NE quad - Zone 4 Catalog #: 394

Artifacts:

1	quartz early-mid stage biface fragment
1	quartz misc. chipped stone tool with cortex
2	***lot sum***

TU N25 E24 — *29 Total Artifacts*

TU N25 E24, level 1, - Zone 1A Catalog #: 399

Artifacts:

1	quartz biface fragment
3	quartz flake (2 with cortex)
1	quartzite flake
3	quartz utilized flake (1 with cortex)
8	***lot sum***

TU N25 E24, level 1A, - Zone 1A Catalog #: 400

Artifacts:

2	quartzite flake
1	quartz flake with cortex
1	quartz misc. chipped stone tool
3	quartz utilized flake (2 with cortex)
7	***lot sum***

TU N25 E24, level 2, SW quad - Zone 1B Catalog #: 401

Artifacts:

2	quartzite flake (1 with cortex)
1	quartzite flake tool with cortex
2	quartz utilized flake
5	***lot sum***

TU N25 E24, level 2, NE quad - Zone 1B Catalog #: 402

Artifacts:

2	quartzite flake
1	quartz utilized flake with cortex
3	***lot sum***

TU N25 E24, level 2/3 base of pz, SW quad - Zone 1B Catalog #: 406

Artifacts:

		1 quartzite flake with cortex
		1 lot sum
TU N25 E24, level 3, SE quad - Zone 2	Catalog #: 403	Artifacts:
		1 chert flake
		1 lot sum
TU N25 E24, level 3, SW quad - Zone 2	Catalog #: 404	Artifacts:
		1 rhyolite flake
		1 quartzite utilized flake
		1 quartz utilized flake
		3 lot sum
TU N25 E24, level 3, NE quad - Zone 2	Catalog #: 405	Artifacts:
		1 quartz utilized flake
		1 lot sum
STP N30 E0		***2 Total Artifacts***
STP N30 E0, level 2, - Zone 1A	Catalog #: 2	Artifacts:
		2 quartz flake
		2 lot sum
STP N30 E10		***2 Total Artifacts***
STP N30 E10, level 2, - Zone 1A	Catalog #: 3	Artifacts:
		1 quartz flake
		1 quartzite flake
		2 lot sum
STP N30 E30		***1 Total Artifacts***
STP N30 E30, level 3, - Zone 1B	Catalog #: 6	Artifacts:
		1 quartz flake with cortex
		1 lot sum
TU N34 E24		***56 Total Artifacts***
TU N34 E24, level 1, - Zone 1A	Catalog #: 371	Artifacts:

		1	quartzite flake
		1	***lot sum***
TU N34 E24, level 1A, - Zone 1A	Catalog #: 372		Artifacts:
		1	quartzite early-mid stage biface fragment
		1	rhyolite flake
		1	quartzite flake
		1	quartzite misc. chipped stone tool with cortex
		1	quartzite Piscataway point, tip missing
		5	***lot sum***
TU N34 E24, level 4, - Zone 1A	Catalog #: 373		Artifacts:
		1	quartzite flake
		1	***lot sum***
TU N34 E24, level 5, SE quad - Zone 1B	Catalog #: 374		Artifacts:
		1	quartzite early-mid stage biface fragment
		1	quartz early-mid stage biface fragment
		2	fire-cracked rock (198.44 g)
		3	quartzite flake
		1	quartzite point fragment, proximal fragment, stemmed variant
		1	quartz shatter
		9	***lot sum***
TU N34 E24, level 5, NE quad - Zone 1B	Catalog #: 375		Artifacts:
		1	quartzite biface fragment
		3	quartz flake
		3	quartzite flake (1 with cortex)
		1	quartz utilized flake
		8	***lot sum***
TU N34 E24, level 5, SW quad - Zone 1B	Catalog #: 376		Artifacts:
		2	quartzite flake (1 with cortex)
		3	quartz flake
		5	***lot sum***

TU N34 E24, level 5, NW quad - Zone 1B Catalog #: 377

Artifacts:

2	fire-cracked rock (21.26 g)
4	quartz flake
2	quartzite flake (1 with cortex)
1	quartz flake tool with cortex
1	quartz misc. chipped stone tool with cortex
1	quartz utilized flake with cortex
11	***lot sum***

TU N34 E24, level 6, SW quad - Zone 2 Catalog #: 378

Artifacts:

1	chert flake
4	quartz flake
5	quartzite flake (1 with cortex)
1	quartzite utilized flake
11	***lot sum***

TU N34 E24, level 6, NW quad - Zone 2 Catalog #: 379

Artifacts:

1	quartzite flake
1	quartz flake
1	quartzite misc. chipped stone tool with cortex
3	***lot sum***

TU N34 E24, level 7, NE quad - Zone 3 Catalog #: 380

Artifacts:

1	quartzite flake
1	***lot sum***

TU N34 E24, level 8, NW quad - Zone 4 Catalog #: 381

Artifacts:

1	quartzite flake
1	***lot sum***

TU N35 E5 ***27*** ***Total Artifacts***

TU N35 E5, level 1, - Zone 1A Catalog #: 361

Artifacts:

1	quartz biface fragment
2	quartz flake tool (2 with cortex)

		6	quartz utilized flake (2 with cortex)
		9	***lot sum***
TU N35 E5, level 2, - Zone 1A	Catalog #: 362	Artifacts:	
		2	quartzite flake (2 with cortex)
		1	quartz utilized flake
		3	***lot sum***
TU N35 E5, level 3, SW quad - Zone 1B	Catalog #: 363	Artifacts:	
		1	quartz utilized flake
		1	***lot sum***
TU N35 E5, level 4, NW quad - Zone 1B	Catalog #: 364	Artifacts:	
		2	quartzite flake (2 with cortex)
		1	quartz flake
		3	***lot sum***
TU N35 E5, level 4, SW quad - Zone 1B	Catalog #: 365	Artifacts:	
		1	quartz biface fragment
		1	quartz flake with cortex
		2	***lot sum***
TU N35 E5, level 4, NE quad - Zone 1B	Catalog #: 366	Artifacts:	
		1	quartzite flake with cortex
		1	quartz flake with cortex
		2	***lot sum***
TU N35 E5, level 4, SE quad - Zone 1B	Catalog #: 367	Artifacts:	
		1	quartz utilized flake with cortex
		1	***lot sum***
TU N35 E5, level 5, NE-Plowscar - Zone 1B	Catalog #: 370	Artifacts:	
		1	quartz flake
		1	***lot sum***

TU N35 E5, level 5, NE quad - Zone 2 Catalog #: 368

Artifacts:

2	quartz utilized flake (1 with cortex)
2	***lot sum***

TU N35 E5, level 5, NW quad - Zone 2 Catalog #: 369

Artifacts:

1	cobble
1	quartz shatter
1	quartz utilized flake
3	***lot sum***

STP N40 E0 — *1 Total Artifacts*

STP N40 E0, level 1, - Zone 1A Catalog #: 7

Artifacts:

1	quartz flake with cortex
1	***lot sum***

STP N40 E10 — *3 Total Artifacts*

STP N40 E10, level 2, - Zone 1B Catalog #: 8

Artifacts:

3	quartz flake (2 with cortex)
3	***lot sum***

STP N40 E20 — *1 Total Artifacts*

STP N40 E20, level 3, - Zone 1B Catalog #: 9

Artifacts:

1	quartz flake
1	***lot sum***

TU N44 E15 — *25 Total Artifacts*

TU N44 E15, level 1, - Zone 1A Catalog #: 334

Artifacts:

1	quartz flake tool with cortex
1	quartz utilized flake
2	***lot sum***

TU N44 E15, level 2, SW quad - Zone 1A Catalog #: 335

Artifacts:

1	quartzite flake
1	***lot sum***

TU N44 E15, level 2, NE quad - Zone 1A Catalog #: 336 Artifacts:

1	quartzite flake with cortex
1	quartz utilized flake
2	***lot sum***

TU N44 E15, level 3, SE quad - Zone 1A Catalog #: 337 Artifacts:

1	rhyolite flake
1	***lot sum***

TU N44 E15, level 3, NW quad - Zone 1A Catalog #: 338 Artifacts:

1	quartzite flake
1	***lot sum***

TU N44 E15, level 4, SW quad - Zone 1B Catalog #: 339 Artifacts:

1	fire-cracked rock (35.43 g)
1	***lot sum***

TU N44 E15, level 4, SE quad - Zone 1B Catalog #: 340 Artifacts:

1	rhyolite flake
1	***lot sum***

TU N44 E15, level 4, NW quad - Zone 1B Catalog #: 341 Artifacts:

1	quartz flake
1	rhyolite flake
2	quartz utilized flake
4	***lot sum***

TU N44 E15, level 4, NE quad - Zone 1B Catalog #: 342 Artifacts:

1	quartz flake
1	chert flake with cortex
2	***lot sum***

TU N44 E15, level 5, SE quad - Zone 2 Catalog #: 343 Artifacts:

		1 jasper flake with cortex
		1 lot sum
TU N44 E15, level 5, SW quad - Zone 2	Catalog #: 344	Artifacts:
		3 quartzite flake (1 with cortex)
		1 rhyolite flake
		1 quartz utilized flake
		5 lot sum
TU N44 E15, level 5, NW quad - Zone 2	Catalog #: 345	Artifacts:
		1 fire-cracked rock (21.26 g)
		1 quartz utilized flake with cortex
		2 lot sum
TU N44 E15, level 5, NE quad - Zone 2	Catalog #: 346	Artifacts:
		1 quartzite utilized flake with cortex
		1 lot sum
TU N44 E15, level 6, SE quad - Zone 3	Catalog #: 347	Artifacts:
		1 quartz flake
		1 lot sum
TU N45 E25		***17 Total Artifacts***
TU N45 E25, level 2, - Zone 1A	Catalog #: 348	Artifacts:
		1 quartzite flake with cortex
		1 quartz flake
		2 lot sum
TU N45 E25, level 3, - Zone 1A	Catalog #: 349	Artifacts:
		1 quartz early-mid stage biface fragment
		1 fire-cracked rock (14.17 g)
		2 lot sum
TU N45 E25, level 5, NW quad - Zone 1A	Catalog #: 350	Artifacts:
		1 rhyolite flake

			1 ***lot sum***
TU N45 E25, level 7, NE quad - Zone 1B	Catalog #:	352	Artifacts:
			1 rhyolite flake
			1 ***lot sum***
TU N45 E25, level 7, NW quad - Zone 1B	Catalog #:	353	Artifacts:
			1 quartz utilized flake
			1 ***lot sum***
TU N45 E25, level 8, SE quad - Zone 2	Catalog #:	354	Artifacts:
			2 chert flake (2 with cortex)
			2 ***lot sum***
TU N45 E25, level 8, NE quad - Zone 2	Catalog #:	355	Artifacts:
			1 quartzite flake with cortex
			1 ***lot sum***
TU N45 E25, level 8, NW quad - Zone 2	Catalog #:	356	Artifacts:
			1 quartz utilized flake
			1 ***lot sum***
TU N45 E25, level 9, NE quad - Zone 3	Catalog #:	357	Artifacts:
			1 quartz utilized flake with cortex
			1 ***lot sum***
TU N45 E25, level 9, NW quad - Zone 3	Catalog #:	358	Artifacts:
			1 quartzite flake tool with cortex
			1 ***lot sum***
TU N45 E25, level 10, NE quad - Zone 4	Catalog #:	359	Artifacts:
			1 quartz utilized flake
			1 ***lot sum***

TU N45 E25, level 10, NW quad - Zone 4 Catalog #: 360

Artifacts:

1	quartz core with cortex
2	quartz flake (1 with cortex)
3	***lot sum***

TU N45 E6 — *39* *Total Artifacts*

TU N45 E6, level 1, - Zone 1A Catalog #: 317

Artifacts:

1	quartzite flake with cortex
1	***lot sum***

TU N45 E6, level 2, - Zone 1A Catalog #: 318

Artifacts:

1	quartz flake
1	rhyolite flake
1	quartz flake tool
3	***lot sum***

TU N45 E6, level 3, - Zone 1A Catalog #: 319

Artifacts:

2	quartz utilized flake
2	***lot sum***

TU N45 E6, level , Wall Clean-up - Zone 1A Catalog #: 332

Artifacts:

1	quartz flake
1	***lot sum***

TU N45 E6, level , Wall Clean-up - Zone 1A Catalog #: 333

Artifacts:

1	quartz utilized flake
1	***lot sum***

TU N45 E6, level 4, SW quad - Zone 2 Catalog #: 320

Artifacts:

1	rhyolite flake
1	ironstone flake
2	quartz utilized flake
4	***lot sum***

TU N45 E6, level 4, SE quad - Zone 2 Catalog #: 321

Artifacts:

		4	rhyolite flake
		1	quartz flake tool with cortex
		1	quartz misc. chipped stone tool
		6	***lot sum***

TU N45 E6, level 4, NE quad - Zone 2	Catalog #: 322	Artifacts:	
		1	quartz flake with cortex
		2	quartz utilized flake
		3	***lot sum***

TU N45 E6, level 5, NE quad - Zone 3	Catalog #: 323	Artifacts:	
		1	quartz flake
		1	quartz flake tool with cortex
		1	quartz utilized flake
		3	***lot sum***

TU N45 E6, level 5, SE quad - Zone 3	Catalog #: 324	Artifacts:	
		1	rhyolite flake
		1	***lot sum***

TU N45 E6, level 5, NW quad - Zone 3	Catalog #: 325	Artifacts:	
		1	quartz utilized flake
		1	***lot sum***

TU N45 E6, level 5, SW quad - Zone 3	Catalog #: 326	Artifacts:	
		1	quartz utilized flake
		1	***lot sum***

TU N45 E6, level 6, SE quad - Zone 4	Catalog #: 327	Artifacts:	
		1	quartzite flake with cortex
		1	quartz flake
		1	rhyolite flake
		1	quartz flake tool with cortex
		4	***lot sum***

TU N45 E6, level 6, NW quad - Zone 4 Catalog #: 328 Artifacts:

1	quartzite flake
1	***lot sum***

TU N45 E6, level 6, SW quad - Zone 4 Catalog #: 329 Artifacts:

1	rhyolite flake
1	quartz utilized flake
2	***lot sum***

TU N45 E6, level 7, SE quad - Zone 4 Catalog #: 330 Artifacts:

1	quartz flake
2	rhyolite flake
1	quartz utilized flake
4	***lot sum***

TU N45 E6, level 7, SW quad - Zone 4 Catalog #: 331 Artifacts:

1	quartz utilized flake with cortex
1	***lot sum***

STP N50 E30 — *1* *Total Artifacts*

STP N50 E30, level 2, - Zone 1A Catalog #: 10 Artifacts:

1	quartz flake with cortex
1	***lot sum***

TU N59 E9 — *5* *Total Artifacts*

TU N59 E9, level 3, - Zone 1A Catalog #: 315 Artifacts:

1	quartzite flake
1	rhyolite Susquehanna Broadspear
2	quartz utilized flake (2 with cortex)
4	***lot sum***

TU N59 E9, level 5, SE quad - Zone 2 Catalog #: 316 Artifacts:

1	quartz utilized flake

		1	*lot sum*

STP	**N60 E0**	1	***Total Artifacts***

STP N60 E0, level 1, - Zone 1A	Catalog #: 11	Artifacts:	
		1	quartz flake with cortex
		1	*lot sum*

STP	**N60 E10**	2	***Total Artifacts***

STP N60 E10, level 2, - Zone 1A	Catalog #: 13	Artifacts:	
		2	quartz flake
		2	*lot sum*

TU	**N60.5 E0.5**	4	***Total Artifacts***

TU N60.5 E0.5, level 6, SE quad - Zone 2	Catalog #: 310	Artifacts:	
		1	quartz biface fragment
		2	fire-cracked rock (28.34 g)
		3	*lot sum*
TU N60.5 E0.5, level 8, NE quad - Zone 4	Catalog #: 312	Artifacts:	
		1	quartz utilized flake with cortex
		1	*lot sum*

Sample Unit	***artifact total =***	**310**
18Cv491	***artifact total =***	***2144***

APPENDIX V:

ARTIFACT CATALOG BY PROVENIENCE
DUNKIRK P&R 2 SITE
18CV492

Artifact Catalog by Provenience - 18CV492

18CV492

Block 1

TU	01		112	Total Artifacts
TU 01, level 3, - Zone 1B	Catalog #:	53	Artifacts:	
			1	ceramic sherd - Accokeek Variant 1
			1	lot sum
TU 01, level 4, NE quad - Zone 1B	Catalog #:	54	Artifacts:	
			7	ceramic sherd - Accokeek Variant 1
			1	fire-cracked rock (7.08 g)
			8	lot sum
TU 01, level 4, NW quad - Zone 1B	Catalog #:	55	Artifacts:	
			7	ceramic sherd - Accokeek
			1	ceramic sherd - Accokeek Variant 1
			1	quartz flake with cortex
			2	quartzite flake
			1	quartz utilized flake
			12	lot sum
TU 01, level 4, SW quad - Zone 1B	Catalog #:	56	Artifacts:	
			1	ceramic sherd - Accokeek Variant 1
			1	quartz flake with cortex
			1	quartzite flake
			1	quartz shatter with cortex
			4	lot sum
TU 01, level 4, SE quad - Zone 1B	Catalog #:	57	Artifacts:	
			1	ceramic sherd - Accokeek Variant 1
			1	fire-cracked rock (7.08 g)
			1	quartz utilized flake
			3	lot sum

TU 01, level , East Wall Scraping - Zone 1B Catalog #: 72

Artifacts:

1	quartzite flake
1	***lot sum***

TU 01, level buried Ap, East Wall Clean Up - Zone 1B Catalog #: 73

Artifacts:

1	ceramic sherd - Accokeek Variant 1
2	quartzite flake (2 with cortex)
3	***lot sum***

TU 01, level 5, SE quad - Zone 2 Catalog #: 58

Artifacts:

4	ceramic sherd - Accokeek
3	ceramic sherd - Accokeek Variant 1
1	fire-cracked rock (14.17 g)
2	quartz utilized flake (1 with cortex)
10	***lot sum***

TU 01, level 5, NW quad - Zone 2 Catalog #: 59

Artifacts:

4	ceramic sherd - Accokeek (1 rim)
2	ceramic sherd - Accokeek Variant 1
2	fire-cracked rock (325.91 g)
4	quartzite flake (4 with cortex)
2	quartz flake
14	***lot sum***

TU 01, level 5, NE quad - Zone 2 Catalog #: 60

Artifacts:

5	ceramic sherd - Accokeek (2 rim)
7	ceramic sherd - Accokeek Variant 1
1	fire-cracked rock (14.71 g)
2	quartz flake
15	***lot sum***

TU 01, level 5, SW quad - Zone 2 Catalog #: 61

Artifacts:

1	ceramic sherd - Accokeek
1	ceramic sherd - Accokeek Variant 1

		2	quartz flake (1 with cortex)
		3	quartzite flake (3 with cortex)
		1	chert shatter with cortex
		8	***lot sum***
TU 01, level Top of B horizon, East Wall - Zone 2	Catalog #: 71		Artifacts:
		1	ceramic sherd - Accokeek Variant 1
		1	***lot sum***
TU 01, level 6, SE quad - Zone 3	Catalog #: 62		Artifacts:
		3	ceramic sherd - Accokeek Variant 1 (I rim)
		2	bone fragment
		5	***lot sum***
TU 01, level 6, NW quad - Zone 3	Catalog #: 63		Artifacts:
		1	ceramic sherd - Accokeek
		1	fire-cracked rock (21.25 g)
		2	quartzite flake (2 with cortex)
		4	quartz flake (3 with cortex)
		8	***lot sum***
TU 01, level 6, NE quad - Zone 3	Catalog #: 64		Artifacts:
		2	ceramic sherd - Accokeek Variant 1 (1 rim)
		1	bone fragment
		2	quartzite flake (1 with cortex)
		1	quartz flake
		1	quartz utilized flake
		7	***lot sum***
TU 01, level 6, SW quad - Zone 3	Catalog #: 65		Artifacts:
		2	quartzite flake (2 with cortex)
		2	***lot sum***
TU 01, level 7, NE quad - Zone 4A	Catalog #: 66		Artifacts:
		2	fire-cracked rock (382.59 g)

		1	quartz flake with cortex
		1	quartz utilized flake
		4	***lot sum***
TU 01, level 7, NW quad - Zone 4A	Catalog #: 67	Artifacts:	
		1	ceramic sherd - Accokeek Variant 1
		1	***lot sum***
TU 01, level 7, SW quad - Zone 4A	Catalog #: 68	Artifacts:	
		1	quartzite flake
		2	quartz flake (1 with cortex)
		3	***lot sum***
TU 01, level 8, SW quad - Zone 4B	Catalog #: 69	Artifacts:	
		1	chert flake with cortex
		1	***lot sum***
TU 01, level 8, SE quad - Zone 4B	Catalog #: 70	Artifacts:	
		1	quartz flake with cortex
		1	***lot sum***
TU 01, 02, & 03		***2***	***Total Artifacts***
TU 01, 02, & 03, level , South and East Wall Clean Up - Zone 1B	Catalog #: 425	Artifacts:	
		1	bone fragment
		1	hammerstone
		2	***lot sum***
TU 02		***46***	***Total Artifacts***
TU 02, level 3, - Zone 1B	Catalog #: 74	Artifacts:	
		1	ceramic sherd - Accokeek Variant 1
		1	***lot sum***
TU 02, level 4, SW quad - Zone 1B	Catalog #: 75	Artifacts:	

		1	ceramic sherd - Accokeek Variant 1
		1	quartz flake with cortex
		1	quartzite flake
		3	***lot sum***
TU 02, level 4, NW quad - Zone 1B	Catalog #: 76	Artifacts:	
		3	ceramic sherd - Accokeek
		3	fire-cracked rock (85.02 g)
		1	quartz flake
		7	***lot sum***
TU 02, level 4, NE quad - Zone 1B	Catalog #: 77	Artifacts:	
		1	quartz flake
		1	***lot sum***
TU 02, level 4, SE quad - Zone 1B	Catalog #: 78	Artifacts:	
		1	ceramic sherd - Accokeek Variant 1
		1	quartz flake
		2	***lot sum***
TU 02, level , Wall Collapse Clean Up - Zone 1B	Catalog #: 91	Artifacts:	
		2	ceramic sherd - Accokeek
		2	***lot sum***
TU 02, level 5, SW quad - Zone 2	Catalog #: 79	Artifacts:	
		4	ceramic sherd - Accokeek
		3	ceramic sherd - Accokeek Variant 1
		7	***lot sum***
TU 02, level 5, NE quad - Zone 2	Catalog #: 80	Artifacts:	
		1	quartz flake
		1	***lot sum***

TU 02, level 5, NW quad - Zone 2 Catalog #: 81

Artifacts:

2	fire-cracked rock (77.93 g)
3	quartzite flake (3 with cortex)
1	quartz flake
1	hammerstone
7	***lot sum***

TU 02, level 5, SE quad - Zone 2 Catalog #: 82

Artifacts:

1	ceramic sherd - Accokeek Variant 1
1	quartz flake
2	***lot sum***

TU 02, level 6, SE quad - Zone 3 Catalog #: 83

Artifacts:

1	quartz flake
1	***lot sum***

TU 02, level 6, SW quad - Zone 3 Catalog #: 84

Artifacts:

1	quartz flake with cortex
1	quartz utilized flake
2	***lot sum***

TU 02, level 6, NE quad - Zone 3 Catalog #: 85

Artifacts:

1	quartz flake tool
1	***lot sum***

TU 02, level 6, NW quad - Zone 3 Catalog #: 86

Artifacts:

2	quartzite flake (2 with cortex)
1	quartz flake
3	***lot sum***

TU 02, level 7, NE quad - Zone 4A Catalog #: 87

Artifacts:

2	quartz flake (1 with cortex)
1	quartzite flake

			3 ***lot sum***
TU 02, level 7, NW quad - Zone 4A	Catalog #:	88	Artifacts:
			1 quartz flake
			1 ***lot sum***
TU 02, level 8, NW quad - Zone 4B	Catalog #:	89	Artifacts:
			1 quartz flake with cortex
			1 ***lot sum***
TU 02, level 8, SW quad - Zone 4B	Catalog #:	90	Artifacts:
			1 quartz flake
			1 ***lot sum***
TU 03			***65*** ***Total Artifacts***
TU 03, level 3, - Zone 1B	Catalog #:	92	Artifacts:
			1 ceramic sherd - Accokeek
			1 ceramic sherd - Accokeek Variant 1
			2 bone fragment
			1 quartz flake
			5 ***lot sum***
TU 03, level 4, - Zone 1B	Catalog #:	93	Artifacts:
			3 ceramic sherd - Accokeek
			6 ceramic sherd - Accokeek Variant 1
			3 bone fragment
			1 fire-cracked rock (70.85 g)
			2 quartzite flake (1 with cortex)
			2 quartz flake
			1 quartz point fragment
			18 ***lot sum***
TU 03, level 5, NE quad - Zone 2	Catalog #:	94	Artifacts:
			1 ceramic sherd - Accokeek Variant 1
			1 fire-cracked rock (127.53 g)
			1 quartzite flake tool with cortex

			3 ***lot sum***
TU 03, level 5, NW quad - Zone 2	Catalog #:	95	Artifacts:
			1 ceramic sherd - Accokeek Variant 1
			2 fire-cracked rock (92.1 g)
			3 quartzite flake (3 with cortex)
			1 quartz flake
			7 ***lot sum***
TU 03, level 5, SE quad - Zone 2	Catalog #:	96	Artifacts:
			1 ceramic sherd - Accokeek Variant 1
			2 quartz flake
			3 ***lot sum***
TU 03, level 5, SW quad - Zone 2	Catalog #:	97	Artifacts:
			1 ceramic sherd - Accokeek Variant 1
			3 quartzite flake (3 with cortex)
			2 quartz flake (1 with cortex)
			6 ***lot sum***
TU 03, level 6, NW quad - Zone 3	Catalog #:	98	Artifacts:
			1 fire-cracked rock (85.02 g)
			1 quartz flake
			1 quartzite flake with cortex
			3 ***lot sum***
TU 03, level 6, NE quad - Zone 3	Catalog #:	99	Artifacts:
			1 quartzite flake with cortex
			1 ***lot sum***
TU 03, level 6, SE quad - Zone 3	Catalog #:	100	Artifacts:
			1 quartzite biface fragment
			3 bone fragment
			1 fire-cracked rock (255.06 g)
			4 quartzite flake (1 with cortex)

		4 quartz flake (2 with cortex)
		13 lot sum
TU 03, level 6, SW quad - Zone 3	Catalog #: 101	Artifacts:
		1 quartzite core/core fragment with cortex
		2 fire-cracked rock (96.35 g)
		1 quartzite flake
		2 quartz flake (1 with cortex)
		6 lot sum

TU 03 & 05 — *1 Total Artifacts*

TU 03 & 05, level , South Wall Mid Section Clean Up - Zone 1B	Catalog #: 426	Artifacts:
		1 quartz utilized flake
		1 lot sum

TU 04 — *73 Total Artifacts*

TU 04, level 2, - Zone 1A	Catalog #: 102	Artifacts:
		3 ceramic sherd - Accokeek
		2 ceramic sherd - Accokeek Variant 1
		5 lot sum
TU 04, level 3, - Zone 1B	Catalog #: 103	Artifacts:
		1 quartzite flake
		1 quartzite shatter
		2 lot sum
TU 04, level 4, - Zone 1B	Catalog #: 104	Artifacts:
		4 ceramic sherd - Accokeek
		2 ceramic sherd - Accokeek Variant 1
		1 quartz flake with cortex
		2 quartzite flake (2 with cortex)
		9 lot sum
TU 04, level buried A, North Wall - Zone 1B	Catalog #: 114	Artifacts:
		1 ceramic sherd - Accokeek Variant 1

			1 ***lot sum***
TU 04, level buried Ap, North Wall/buried Ap Wall Scraping - Zone 1B	Catalog #:	115	Artifacts:
			1 ceramic sherd - Accokeek
			1 ***lot sum***
TU 04, level , NW/North Wall root disturbance clean up - Zone 1B	Catalog #:	116	Artifacts:
			1 quartz utilized flake
			1 ***lot sum***
TU 04, level 5, SE quad - Zone 2	Catalog #:	105	Artifacts:
			3 bone fragment
			12 fire-cracked rock (70.85 g)
			2 quartz flake (1 with cortex)
			1 quartzite flake with cortex
			18 ***lot sum***
TU 04, level 5, NE quad - Zone 2	Catalog #:	106	Artifacts:
			1 fire-cracked rock (28.34 g)
			2 quartz flake (1 with cortex)
			1 quartzite flake with cortex
			4 ***lot sum***
TU 04, level 5, NW quad - Zone 2	Catalog #:	107	Artifacts:
			1 bone fragment
			1 quartzite flake with cortex
			2 ***lot sum***
TU 04, level 5, SW quad - Zone 2	Catalog #:	108	Artifacts:
			1 ceramic sherd - Accokeek
			3 fire-cracked rock (141.7 g)
			1 quartzite flake
			2 quartz flake

			7 ***lot sum***
TU 04, level 5, NE quad (point provenienced at N84 E69) quad - Zone 2	Catalog #:	109	Artifacts:
			2 ceramic sherd - Accokeek
			2 ***lot sum***
TU 04, level 6, SE quad - Zone 3	Catalog #:	110	Artifacts:
			1 ceramic sherd - Accokeek Variant 1
			2 quartz flake (1 with cortex)
			1 quartzite flake with cortex
			4 ***lot sum***
TU 04, level 6, NE quad - Zone 3	Catalog #:	111	Artifacts:
			1 bone fragment
			3 fire-cracked rock (368.42 g)
			2 quartz flake
			6 ***lot sum***
TU 04, level 6, NW quad - Zone 3	Catalog #:	112	Artifacts:
			1 fire-cracked rock (141.7 g)
			1 quartzite flake with cortex
			1 quartz flake
			1 hammerstone
			1 quartz misc. chipped stone tool
			1 quartz utilized flake
			6 ***lot sum***
TU 04, level 6, SW quad - Zone 3	Catalog #:	113	Artifacts:
			1 ceramic sherd - Accokeek Variant 1
			1 quartz biface fragment
			1 bone fragment
			1 quartzite flake with cortex
			1 quartz utilized flake
			5 ***lot sum***

TU	05		121	Total Artifacts
TU 05, level 2, - Zone 1A	Catalog #:	129	Artifacts:	
			2	ceramic sherd - Accokeek
			2	*lot sum*
TU 05, level 3, - Zone 1B	Catalog #:	130	Artifacts:	
			1	ceramic sherd - Accokeek Variant 1
			1	*lot sum*
TU 05, level 4, - Zone 1B	Catalog #:	131	Artifacts:	
			3	ceramic sherd - Accokeek (1 rim)
			2	ceramic sherd - Accokeek Variant 1
			1	bone fragment
			5	quartz flake (1 with cortex)
			4	quartzite flake (2 with cortex)
			1	quartz flake tool with cortex
			16	*lot sum*
TU 05, level 5, NE quad - Zone 2	Catalog #:	132	Artifacts:	
			1	ceramic sherd - Accokeek Variant 1
			1	fire-cracked rock (7.08 g)
			3	quartzite flake (2 with cortex)
			5	*lot sum*
TU 05, level 5, NW quad - Zone 2	Catalog #:	133	Artifacts:	
			2	ceramic sherd - Accokeek (1 rim)
			1	ceramic sherd - Accokeek Variant 1
			5	fire-cracked rock (63.76 g)
			3	quartz flake (1 with cortex)
			1	quartz flake tool with cortex
			2	quartz shatter (2 with cortex)
			14	*lot sum*
TU 05, level 5, SE quad - Zone 2	Catalog #:	134	Artifacts:	
			4	ceramic sherd - Accokeek
			2	ceramic sherd - Accokeek Variant 1

3	quartz flake
5	quartzite flake (2 with cortex)
3	quartz utilized flake
17	***lot sum***

TU 05, level 5, SW quad - Zone 2 Catalog #: 135

Artifacts:

2	fire-cracked rock (42.51 g)
1	quartzite flake with cortex
3	quartz flake
2	chert shatter
1	quartzite shatter with cortex
1	quartz utilized flake with cortex
10	***lot sum***

TU 05, level , South Wall/B Horizon - Zone 2 Catalog #: 146

Artifacts:

1	quartzite core/core fragment
1	***lot sum***

TU 05, level 6, NE quad - Zone 3 Catalog #: 136

Artifacts:

1	bone fragment
1	fire-cracked rock (56.68 g)
2	quartzite flake
6	quartz flake (3 with cortex)
1	chert shatter
1	quartz utilized flake with cortex
12	***lot sum***

TU 05, level 6, NW quad - Zone 3 Catalog #: 137

Artifacts:

1	quartz biface fragment
1	quartz utilized flake
2	***lot sum***

TU 05, level 6, SE quad - Zone 3 Catalog #: 138

Artifacts:

1	ceramic sherd - Accokeek
3	fire-cracked rock (510.12 g)

		1	quartz flake
		4	quartzite flake (1 with cortex)
		1	quartz flake tool
		1	quartz misc. chipped stone tool
		11	***lot sum***
TU 05, level 6, SW quad - Zone 3	Catalog #: 139	Artifacts:	
		5	fire-cracked rock (170.04 g)
		3	quartz flake
		1	quartzite shatter with cortex
		4	quartz utilized flake (3 with cortex)
		13	***lot sum***
TU 05, level 7, NE quad - Zone 4A	Catalog #: 140	Artifacts:	
		1	quartz flake with cortex
		1	quartz utilized flake
		2	***lot sum***
TU 05, level 7, SE quad - Zone 4A	Catalog #: 141	Artifacts:	
		2	quartzite flake
		4	quartz flake (1 with cortex)
		1	quartz utilized flake
		7	***lot sum***
TU 05, level 7, SW quad - Zone 4A	Catalog #: 142	Artifacts:	
		3	quartz flake
		1	quartz utilized flake
		4	***lot sum***
TU 05, level 8, SW quad - Zone 4B	Catalog #: 143	Artifacts:	
		2	quartz flake (1 with cortex)
		2	***lot sum***
TU 05, level 9, NW quad - Zone 4C	Catalog #: 144	Artifacts:	
		1	quartz utilized flake with cortex

		1	*lot sum*
TU 05, level 9, SW quad - Zone 4C	Catalog #: 145	Artifacts:	
		1	quartzite flake
		1	*lot sum*

TU 05 and 06 — 3 *Total Artifacts*

TU 05 and 06, level , South Wall Clean Up - Zone 1B	Catalog #: 427	Artifacts:	
		1	quartzite early-mid stage biface/biface fragment
		1	fire-cracked rock (141.7 g)
		1	quartz utilized flake
		3	*lot sum*

TU 06 — 76 *Total Artifacts*

TU 06, level 2, - Zone 1A	Catalog #: 147	Artifacts:	
		3	ceramic sherd - Accokeek
		1	quartz flake with cortex
		4	*lot sum*
TU 06, level 3, - Zone 1B	Catalog #: 148	Artifacts:	
		1	ceramic sherd - Accokeek
		1	*lot sum*
TU 06, level 4, - Zone 1B	Catalog #: 149	Artifacts:	
		8	ceramic sherd - Accokeek
		3	ceramic sherd - Accokeek Variant 1
		1	chert flake with cortex
		1	quartzite flake with cortex
		3	quartz flake (2 with cortex)
		16	*lot sum*
TU 06, level 5, NE quad - Zone 2	Catalog #: 150	Artifacts:	
		2	ceramic sherd - Accokeek (1 rim)
		2	ceramic sherd - Accokeek Variant 1 (2 rim)
		3	bone fragment

		1	quartz flake
		1	quartzite flake with cortex
		9	***lot sum***

TU 06, level 5, NW quad - Zone 2	Catalog #: 151	Artifacts:	
		2	ceramic sherd - Accokeek
		4	quartz flake (1 with cortex)
		1	quartz flake tool with cortex
		7	***lot sum***

TU 06, level 5, SE quad - Zone 2	Catalog #: 152	Artifacts:	
		1	ceramic sherd - Accokeek
		1	ceramic sherd - Accokeek Variant 1
		2	fire-cracked rock (56.68 g)
		1	quartzite flake with cortex
		1	quartz flake
		1	chert shatter
		1	quartz utilized flake with cortex
		8	***lot sum***

TU 06, level 5, SW quad - Zone 2	Catalog #: 153	Artifacts:	
		3	ceramic sherd - Accokeek
		1	quartz flake
		4	***lot sum***

TU 06, level 6, NE quad - Zone 3	Catalog #: 154	Artifacts:	
		1	ceramic sherd - Accokeek Variant 1
		1	fire-cracked rock (255.06 g)
		1	quartz flake
		3	***lot sum***

TU 06, level 6, NW quad - Zone 3	Catalog #: 155	Artifacts:	
		1	ceramic sherd - Accokeek
		3	fire-cracked rock (155.87 g)
		1	quartz flake

		1	chert shatter
		6	***lot sum***
TU 06, level 6, SE quad - Zone 3	Catalog #: 156	Artifacts:	
		2	ceramic sherd - Accokeek
		2	ceramic sherd - Accokeek Variant 1
		2	quartzite flake
		6	***lot sum***
TU 06, level 6, SW quad - Zone 3	Catalog #: 157	Artifacts:	
		1	quartz Vernon point with impact fracture
		2	quartz utilized flake
		3	***lot sum***
TU 06, level 7, NE quad - Zone 4A	Catalog #: 158	Artifacts:	
		1	quartz flake
		1	***lot sum***
TU 06, level 7, NW quad - Zone 4A	Catalog #: 159	Artifacts:	
		1	quartzite flake with cortex
		1	quartz utilized flake
		2	***lot sum***
TU 06, level 7, SE quad - Zone 4A	Catalog #: 160	Artifacts:	
		2	ceramic sherd - Accokeek
		2	quartz utilized flake
		4	***lot sum***
TU 06, level 7, SW quad - Zone 4A	Catalog #: 161	Artifacts:	
		1	ceramic sherd - Accokeek
		1	***lot sum***
TU 06, level 9, NW quad - Zone 4C	Catalog #: 162	Artifacts:	
		1	quartz flake tool with cortex

		1 *lot sum*

TU 07 — 65 *Total Artifacts*

TU 07, level 3, - Zone 1B	Catalog #:	163	Artifacts:
			7 ceramic sherd - Accokeek (1 rim)
			1 ceramic sherd - Accokeek Variant 1
			1 quartzite flake
			2 quartz flake (2 with cortex)
			1 quartz triangle point (Late Woodland), proximal fragment, transverse fracture
			1 quartz utilized flake
			13 *lot sum*
TU 07, level 3A, South Half - Zone 1B	Catalog #:	164	Artifacts:
			1 ceramic sherd - Accokeek
			1 quartz utilized flake
			2 *lot sum*
TU 07, level 4, SE quad - Zone 2	Catalog #:	165	Artifacts:
			1 ceramic sherd - Accokeek (1 rim)
			1 quartz early-mid stage biface/biface fragment
			2 fire-cracked rock (56.68 g)
			4 *lot sum*
TU 07, level 4, NW quad - Zone 2	Catalog #:	166	Artifacts:
			1 ceramic sherd - Accokeek
			2 quartz flake (1 with cortex)
			3 *lot sum*
TU 07, level 4, SW quad - Zone 2	Catalog #:	167	Artifacts:
			1 ceramic sherd - Accokeek Variant 1
			1 quartzite flake with cortex
			1 quartz utilized flake
			3 *lot sum*

TU 07, level 4, NE quad - Zone 2 Catalog #: 168

Artifacts:

2	ceramic sherd - Accokeek (1 rim)
1	quartz flake
1	quartz flake tool
2	quartz utilized flake (1 with cortex)
6	***lot sum***

TU 07, level 5, SE quad - Zone 2 Catalog #: 169

Artifacts:

3	fire-cracked rock (453.44 g)
2	quartz utilized flake (2 with cortex)
5	***lot sum***

TU 07, level 5, NW quad - Zone 2 Catalog #: 170

Artifacts:

1	fire-cracked rock (42.51 g)
2	quartzite flake
3	***lot sum***

TU 07, level 5, SW quad - Zone 2 Catalog #: 171

Artifacts:

2	quartzite flake (2 with cortex)
2	quartz flake (2 with cortex)
4	***lot sum***

TU 07, level 5, NE quad - Zone 2 Catalog #: 172

Artifacts:

1	fire-cracked rock (127.53 g)
1	quartzite flake with cortex
1	quartz flake
1	chert shatter with cortex
1	quartz utilized flake
5	***lot sum***

TU 07, level 6, SE quad - Zone 3 Catalog #: 173

Artifacts:

2	quartzite flake (1 with cortex)
3	quartz flake (1 with cortex)
5	***lot sum***

TU 07, level 6, NW quad - Zone 3 Catalog #: 174

Artifacts:

1	quartzite flake with cortex
4	quartz flake (2 with cortex)
5	***lot sum***

TU 07, level 6, SW quad - Zone 3 Catalog #: 175

Artifacts:

1	fire-cracked rock (14.17 g)
2	quartzite flake (1 with cortex)
1	quartz flake with cortex
4	***lot sum***

TU 07, level 6, NE quad - Zone 3 Catalog #: 176

Artifacts:

1	quartzite flake
1	***lot sum***

TU 07, level 7, NE quad - Zone 4A Catalog #: 177

Artifacts:

1	quartz point fragment, tip, evidence of twist break
1	***lot sum***

TU 07, level 8, NW quad - Zone 4B Catalog #: 178

Artifacts:

1	quartz flake
1	***lot sum***

TU 08 — *64 Total Artifacts*

TU 08, level 2, - Zone 1A Catalog #: 179

Artifacts:

4	ceramic sherd - Accokeek
1	quartz triangle point (Late Woodland), impact fracture
5	***lot sum***

TU 08, level 3, - Zone 1B Catalog #: 180

Artifacts:

6	ceramic sherd - Accokeek (1 rim)
1	ceramic sherd - Accokeek Variant 1
1	quartz flake

1	quartz point fragment
1	quartzite shatter with cortex
10	***lot sum***

TU 08, level 4, NW quad - Zone 2 Catalog #: 181

Artifacts:

4	ceramic sherd - Accokeek
1	quartz utilized flake
5	***lot sum***

TU 08, level 4, NE quad - Zone 2 Catalog #: 182

Artifacts:

1	ceramic sherd - Accokeek
1	ceramic sherd - Accokeek Variant 1
1	quartz biface fragment
2	quartz utilized flake
5	***lot sum***

TU 08, level 4, SW quad - Zone 2 Catalog #: 183

Artifacts:

5	ceramic sherd - Accokeek
2	quartz utilized flake (1 with cortex)
7	***lot sum***

TU 08, level 4, SE quad - Zone 2 Catalog #: 184

Artifacts:

6	ceramic sherd - Accokeek
1	quartzite flake
1	quartz point fragment, possible "ear" fragment
8	***lot sum***

TU 08, level 5, NW quad - Zone 2 Catalog #: 185

Artifacts:

1	quartzite misc. chipped stone tool with cortex
1	***lot sum***

TU 08, level 5, NE quad - Zone 2 Catalog #: 186

Artifacts:

2	ceramic sherd - Accokeek

	1	quartz utilized flake
	3	***lot sum***

TU 08, level 5, SW quad - Zone 2 Catalog #: 187

Artifacts:

1	ceramic sherd - Accokeek
1	ceramic sherd - Accokeek Variant 1 (1 rim)
1	fire-cracked rock (240.89 g)
1	quartz misc. chipped stone tool
2	quartz utilized flake
6	***lot sum***

TU 08, level 5, SE quad - Zone 2 Catalog #: 188

Artifacts:

1	ceramic sherd - Accokeek (1 rim)
1	quartz flake with cortex
1	quartz shatter with cortex
3	***lot sum***

TU 08, level 6, NE quad - Zone 3 Catalog #: 189

Artifacts:

1	quartz flake
1	quartzite flake
1	quartz misc. chipped stone tool
3	***lot sum***

TU 08, level 6, SW quad - Zone 3 Catalog #: 190

Artifacts:

2	ceramic sherd - Accokeek (1 rim)
1	quartzite flake
1	quartz flake
1	quartz misc. chipped stone tool
5	***lot sum***

TU 08, level 6, SE quad - Zone 3 Catalog #: 191

Artifacts:

1	quartz utilized flake
1	***lot sum***

TU 08, level 7, SE quad - Zone 4A Catalog #: 192

Artifacts:

1	quartz biface fragment
1	quartz flake
2	***lot sum***

TU 09 — *43* *Total Artifacts*

TU 09, level 3, - Zone 1A — Catalog #: 193

Artifacts:

1	ceramic sherd - Accokeek
1	***lot sum***

TU 09, level 4, - Zone 1B — Catalog #: 194

Artifacts:

5	ceramic sherd - Mockley
5	***lot sum***

TU 09, level 5, - Zone 1B — Catalog #: 195

Artifacts:

3	ceramic sherd - Accokeek (1 rim)
3	ceramic sherd - Accokeek Variant 1
1	quartz biface fragment with cortex
1	quartz flake with cortex
1	ceramic sherd - Mockley
9	***lot sum***

TU 09, level , Wall Clean Up - Zone 1B — Catalog #: 203

Artifacts:

2	ceramic sherd - Accokeek
2	***lot sum***

TU 09, level 6, SE quad - Zone 2 — Catalog #: 196

Artifacts:

1	ceramic sherd - Accokeek Variant 1
3	quartz flake
2	quartzite flake (2 with cortex)
6	***lot sum***

TU 09, level 6, NE quad - Zone 2 — Catalog #: 197

Artifacts:

1	ceramic sherd - Accokeek Variant 1
2	quartz flake
3	***lot sum***

TU 09, level 7, NE quad - Zone 3 Catalog #: 198

Artifacts:

1	ceramic sherd - Accokeek
1	quartz biface fragment
1	fire-cracked rock (42.51 g)
1	quartzite flake
1	quartz flake with cortex
5	***lot sum***

TU 09, level 7, NW quad - Zone 3 Catalog #: 199

Artifacts:

1	quartz flake with cortex
1	quartzite flake with cortex
1	quartzite flake tool
1	chert shatter
2	quartzite shatter (2 with cortex)
1	quartz utilized flake with cortex
7	***lot sum***

TU 09, level 7, SE quad - Zone 3 Catalog #: 200

Artifacts:

1	quartzite flake with cortex
1	***lot sum***

TU 09, level 7, SW quad - Zone 3 Catalog #: 201

Artifacts:

1	ceramic sherd - Accokeek
1	quartz flake with cortex
2	quartzite flake (2 with cortex)
4	***lot sum***

TU 10 ***22*** ***Total Artifacts***

TU 10, level 3, - Zone 1B Catalog #: 321

Artifacts:

1	ceramic sherd - Accokeek
1	***lot sum***

TU 10, level 4, - Zone 1B Catalog #: 322

Artifacts:

4	ceramic sherd - Accokeek
1	ceramic sherd - Accokeek Variant 1

			5 ***lot sum***
TU 10, level 5, SW quad - Zone 2	Catalog #:	323	Artifacts:
			1 quartz flake with cortex
			1 ***lot sum***
TU 10, level 5, SE quad - Zone 2	Catalog #:	324	Artifacts:
			2 ceramic sherd - Accokeek
			1 quartz flake with cortex
			3 ***lot sum***
TU 10, level 5, NE quad - Zone 2	Catalog #:	325	Artifacts:
			3 ceramic sherd - Accokeek
			1 quartz basal notched point with fractured base
			1 quartz utilized flake with cortex
			5 ***lot sum***
TU 10, level 6, NE quad - Zone 3	Catalog #:	326	Artifacts:
			1 fire-cracked rock (623.48 g)
			1 ***lot sum***
TU 10, level 6, SE quad - Zone 3	Catalog #:	327	Artifacts:
			1 quartzite core/core fragment with cortex
			1 quartz utilized flake
			2 ***lot sum***
TU 10, level 7, SE quad - Zone 4A	Catalog #:	328	Artifacts:
			1 ceramic sherd - Accokeek Variant 1
			1 ***lot sum***
TU 10, level 7, SW quad - Zone 4A	Catalog #:	329	Artifacts:
			1 quartzite flake with cortex
			1 quartz utilized flake with cortex

			2 *lot sum*
TU 10, level 8, SE quad - Zone 4B	Catalog #:	330	Artifacts:
			1 ceramic sherd - Accokeek (1 rim)
			1 *lot sum*

TU 11 — 24 *Total Artifacts*

TU 11, level 3, - Zone 1A	Catalog #:	343	Artifacts:
			1 ceramic sherd - Accokeek
			1 quartzite flake with cortex
			1 quartz flake
			1 ceramic sherd - Mockley
			4 *lot sum*
TU 11, level 5, - Zone 1B	Catalog #:	344	Artifacts:
			1 quartz flake
			1 chert misc. chipped stone tool , drill
			2 *lot sum*
TU 11, level , Wall Scraping - Zone 1B	Catalog #:	354	Artifacts:
			1 ceramic sherd - Accokeek Variant 1
			1 *lot sum*
TU 11, level 6, - Zone 2	Catalog #:	345	Artifacts:
			1 quartz point fragment, tip fragment, evidence of reuse as a scraper on reverse side of break hinge
			1 *lot sum*
TU 11, level 7, NW quad - Zone 2	Catalog #:	346	Artifacts:
			1 quartzite flake
			2 quartzite shatter (2 with cortex)
			3 *lot sum*
TU 11, level 7, SE quad - Zone 2	Catalog #:	347	Artifacts:
			1 fire-cracked rock (85.02 g)

		1	quartz flake
		2	***lot sum***
TU 11, level 7, SW quad - Zone 2	Catalog #: 348	Artifacts:	
		1	quartz utilized flake
		1	***lot sum***
TU 11, level 8, NW quad - Zone 3	Catalog #: 349	Artifacts:	
		3	quartzite flake (3 with cortex)
		1	quartzite misc. chipped stone tool with cortex
		4	***lot sum***
TU 11, level 8, SE quad - Zone 3	Catalog #: 350	Artifacts:	
		1	quartzite flake
		1	quartz flake
		2	***lot sum***
TU 11, level 8, NE quad - Zone 3	Catalog #: 351	Artifacts:	
		1	quartzite flake with cortex
		1	quartz flake tool with cortex
		2	***lot sum***
TU 11, level 9, NW quad - Zone 4A	Catalog #: 352	Artifacts:	
		1	rhyolite utilized flake
		1	***lot sum***
TU 11, level 9, NE quad - Zone 4A	Catalog #: 353	Artifacts:	
		1	quartzite utilized flake
		1	***lot sum***
TU 12		***11***	***Total Artifacts***
TU 12, level 2, - Zone 1A	Catalog #: 204	Artifacts:	
		1	quartz flake with cortex

			1 *lot sum*
TU 12, level 4, - Zone 1B	Catalog #:	205	Artifacts:
			1 ceramic sherd - Accokeek
			1 *lot sum*
TU 12, level 5, NW quad - Zone 2	Catalog #:	206	Artifacts:
			1 ceramic sherd - Accokeek
			1 *lot sum*
TU 12, level 5, NE quad - Zone 2	Catalog #:	207	Artifacts:
			1 quartzite flake with cortex
			1 *lot sum*
TU 12, level 5, SW quad - Zone 2	Catalog #:	208	Artifacts:
			1 fire-cracked rock (42.51 g)
			1 *lot sum*
TU 12, level 6, NE quad - Zone 3	Catalog #:	209	Artifacts:
			1 ceramic sherd - Accokeek
			1 *lot sum*
TU 12, level 6, SE quad - Zone 3	Catalog #:	210	Artifacts:
			1 ceramic sherd - Accokeek
			1 quartzite flake
			2 *lot sum*
TU 12, level 6, SW quad - Zone 3	Catalog #:	211	Artifacts:
			1 quartzite flake with cortex
			1 *lot sum*
TU 12, level 10-30 cm into subsoil, West Wall Clean Up - Zone 3	Catalog #:	213	Artifacts:
			1 quartzite shatter with cortex

			1 lot sum
TU 12, level 7, NW quad - Zone 4A	Catalog #:	212	Artifacts:
			1 quartz flake
			1 lot sum

TU 13 — 46 Total Artifacts

TU 13, level 3, - Zone 1B	Catalog #:	214	Artifacts:
			7 ceramic sherd - Accokeek
			3 quartzite flake
			1 quartz flake
			11 lot sum
TU 13, level 4, - Zone 1B	Catalog #:	215	Artifacts:
			1 ceramic sherd - Accokeek
			1 lot sum
TU 13, level buried A, North Wall, buried A/Ap Wall Scraping - Zone 1B	Catalog #:	219	Artifacts:
			1 ceramic sherd - Accokeek
			1 lot sum
TU 13, level 5, - Zone 2	Catalog #:	216	Artifacts:
			19 ceramic sherd - Accokeek (1 rim)
			5 ceramic sherd - Accokeek Variant 1 (3 rim)
			1 fire-cracked rock (7.08 g)
			2 quartz utilized flake
			27 lot sum
TU 13, level 6, NE quad - Zone 3	Catalog #:	217	Artifacts:
			3 quartz utilized flake
			3 lot sum
TU 13, level 6, SE quad - Zone 3	Catalog #:	218	Artifacts:
			1 quartz utilized flake

			1 ***lot sum***
TU 13, level , floor scraping - Zone 4B	Catalog #:	220	Artifacts:
			1 hammerstone
			1 ***lot sum***
TU 13, level , SE quad - Zone 4B	Catalog #:	221	Artifacts:
			1 rhyolite flake
			1 ***lot sum***

TU 14 — *171* *Total Artifacts*

TU 14, level 2, - Zone 1A	Catalog #:	222	Artifacts:
			1 ceramic sherd - Accokeek
			1 ***lot sum***
TU 14, level 3, - Zone 1B	Catalog #:	223	Artifacts:
			6 ceramic sherd - Accokeek (1 rim)
			3 ceramic sherd - Accokeek Variant 1 (1 rim)
			1 quartz flake
			1 quartz utilized flake
			11 ***lot sum***
TU 14, level 4, - Zone 1B	Catalog #:	224	Artifacts:
			26 ceramic sherd - Accokeek (2 rim)
			3 ceramic sherd - Accokeek Variant 1
			3 quartzite flake (1 with cortex)
			1 quartz flake
			1 rhyolite point fragment, base fragment of stemmed variant
			34 ***lot sum***
TU 14, level 5, SW quad - Zone 2	Catalog #:	225	Artifacts:
			23 ceramic sherd - Accokeek (3 rim)
			1 ceramic sherd - Accokeek Variant 1
			1 quartzite flake
			25 ***lot sum***

TU 14, level 5, NE quad - Zone 2 Catalog #: 226

Artifacts:

2	ceramic sherd - Accokeek
2	ceramic sherd - Accokeek Variant 1
1	quartz biface fragment
1	bone fragment
3	quartz flake (1 with cortex)
1	quartz utilized flake
10	***lot sum***

TU 14, level 5, SE quad - Zone 2 Catalog #: 227

Artifacts:

3	ceramic sherd - Accokeek
3	bone fragment
2	quartz flake
8	***lot sum***

TU 14, level 5, NW quad - Zone 2 Catalog #: 228

Artifacts:

29	ceramic sherd - Accokeek (5 rim)
9	ceramic sherd - Accokeek Variant 1 (3 rim)
1	bone fragment
39	***lot sum***

TU 14, level 6, SE quad - Zone 3 Catalog #: 229

Artifacts:

1	quartz biface fragment
3	quartz flake
1	hammerstone
2	quartz utilized flake
7	***lot sum***

TU 14, level 6, NW quad - Zone 3 Catalog #: 230

Artifacts:

1	bone fragment
2	quartz flake
1	chert Palmer/Amos variant point (Early Archaic)
1	quartz shatter with cortex

			5 *lot sum*
TU 14, level 6, NE quad - Zone 3	Catalog #:	231	Artifacts:
			1 ceramic sherd - Accokeek
			2 quartz flake (1 with cortex)
			1 quartz flake tool with cortex
			2 quartz utilized flake (1 with cortex)
			6 *lot sum*
TU 14, level 6, SW quad - Zone 3	Catalog #:	232	Artifacts:
			2 ceramic sherd - Accokeek
			1 quartz flake
			1 quartz flake tool with cortex
			4 *lot sum*
TU 14, level 6A, SW quad - Zone 3	Catalog #:	233	Artifacts:
			1 quartz biface fragment
			1 quartz flake
			2 *lot sum*
TU 14, level 6A, NW quad - Zone 3	Catalog #:	234	Artifacts:
			1 quartz utilized flake
			1 *lot sum*
TU 14, level 6A, NE quad - Zone 3	Catalog #:	235	Artifacts:
			2 quartz utilized flake
			2 *lot sum*
TU 14, level 6A, SE quad - Zone 3	Catalog #:	236	Artifacts:
			1 quartz flake
			2 quartz utilized flake
			3 *lot sum*
TU 14, level 7, SW quad - Zone 4A	Catalog #:	237	Artifacts:

		2	quartz flake (1 with cortex)
		1	quartz utilized flake with cortex
		3	***lot sum***
TU 14, level 7, NW quad - Zone 4A	Catalog #: 238	Artifacts:	
		1	quartzite flake
		1	quartz point fragment, tip fragment
		1	quartzite worked/tested cobble with cortex
		3	***lot sum***
TU 14, level 8, NW quad - Zone 4B	Catalog #: 239	Artifacts:	
		1	quartz flake
		1	***lot sum***
TU 14, level 9, NE quad - Zone 4C	Catalog #: 240	Artifacts:	
		2	bone fragment
		1	quartzite flake
		3	***lot sum***
TU 14, level 9, SE quad - Zone 4C	Catalog #: 241	Artifacts:	
		1	quartz flake
		1	***lot sum***
TU 14, level 9, NW quad - Zone 4C	Catalog #: 242	Artifacts:	
		1	hammerstone
		1	quartz worked/tested cobble with cortex
		2	***lot sum***
TU 15		***33***	***Total Artifacts***
TU 15, level 2, - Zone 1A	Catalog #: 331	Artifacts:	
		6	ceramic sherd - Mockley (1 rim)
		6	***lot sum***
TU 15, level 3, - Zone 1B	Catalog #: 332	Artifacts:	
		1	ceramic sherd - Accokeek (1 rim)

		2	ceramic sherd - Mockley
		3	***lot sum***
TU 15, level 4, - Zone 1B	Catalog #: 333	Artifacts:	
		5	ceramic sherd - Mockley
		5	***lot sum***
TU 15, level 5, NW quad - Zone 2	Catalog #: 334	Artifacts:	
		3	ceramic sherd - Accokeek (1 rim)
		3	***lot sum***
TU 15, level 5, SE quad - Zone 2	Catalog #: 335	Artifacts:	
		1	ceramic sherd - Mockley
		1	***lot sum***
TU 15, level 5, NE quad - Zone 2	Catalog #: 336	Artifacts:	
		6	ceramic sherd - Accokeek (1 rim)
		6	***lot sum***
TU 15, level 6, NE quad - Zone 3	Catalog #: 337	Artifacts:	
		1	ceramic sherd - Accokeek
		1	***lot sum***
TU 15, level 6, SW quad - Zone 3	Catalog #: 338	Artifacts:	
		1	quartzite flake with cortex
		1	chert shatter
		2	***lot sum***
TU 15, level 6, NW quad - Zone 3	Catalog #: 339	Artifacts:	
		1	ceramic sherd - Accokeek Variant 1
		1	bone fragment
		2	***lot sum***
TU 15, level 7, SW quad - Zone 4A	Catalog #: 340	Artifacts:	

		2	quartzite flake (1 with cortex)
		2	***lot sum***
TU 15, level 7, SE quad - Zone 4A	Catalog #: 341	Artifacts:	
		1	fire-cracked rock (127.53 g)
		1	***lot sum***
TU 15, level 9, NW quad - Zone 4C	Catalog #: 342	Artifacts:	
		1	quartzite flake tool with cortex
		1	***lot sum***
TU 16		***95***	***Total Artifacts***
TU 16, level 3, - Zone 1B	Catalog #: 243	Artifacts:	
		1	ceramic sherd - Accokeek Variant 1
		1	***lot sum***
TU 16, level 4, - Zone 1B	Catalog #: 244	Artifacts:	
		2	ceramic sherd - Accokeek
		1	ceramic sherd - Accokeek Variant 1
		1	bone fragment
		2	quartz point fragments, tip fragments. One tip is result of transverse fracture. Other fragment is very small.
		2	quartz utilized flake (2 with cortex)
		8	***lot sum***
TU 16, level Buried Ap - Tree Disturbance, NW quad - Zone 1B	Catalog #: 260	Artifacts:	
		1	ceramic sherd - Accokeek
		1	***lot sum***
TU 16, level 9, SW (root and Phase I STP disturbed) quad - Zone 1B	Catalog #: 261	Artifacts:	
		1	ceramic sherd - Accokeek Variant 1
		1	hammerstone
		1	quartz utilized flake

			3 ***lot sum***
TU 16, level 5, SW quad - Zone 2	Catalog #:	245	Artifacts:
			23 ceramic sherd - Accokeek (1 rim, 1 base)
			1 ceramic sherd - Accokeek Variant 1 (1 rim)
			1 quartz shatter with cortex
			1 quartz utilized flake
			26 ***lot sum***
TU 16, level 5, NE quad - Zone 2	Catalog #:	246	Artifacts:
			5 ceramic sherd - Accokeek
			2 ceramic sherd - Accokeek Variant 1
			3 fire-cracked rock (70.85 g)
			1 quartz utilized flake
			11 ***lot sum***
TU 16, level 5, SE quad - Zone 2	Catalog #:	247	Artifacts:
			4 ceramic sherd - Accokeek (1 rim)
			1 ceramic sherd - Accokeek Variant 1
			3 bone fragment
			1 quartz flake with cortex
			1 quartz utilized flake
			10 ***lot sum***
TU 16, level 5, NW quad - Zone 2	Catalog #:	248	Artifacts:
			3 ceramic sherd - Accokeek
			2 ceramic sherd - Accokeek Variant 1
			1 rhyolite flake
			1 quartz utilized flake with cortex
			7 ***lot sum***
TU 16, level 6, NW quad - Zone 3	Catalog #:	249	Artifacts:
			1 quartz biface fragment
			1 bone fragment
			1 quartz flake

			3 ***lot sum***
TU 16, level 6, NE quad - Zone 3	Catalog #:	250	Artifacts:
			1 ceramic sherd - Accokeek
			1 fire-cracked rock (56.68 g)
			1 quartzite flake
			3 ***lot sum***
TU 16, level 6, SE quad - Zone 3	Catalog #:	251	Artifacts:
			3 ceramic sherd - Accokeek Variant 1
			1 bone fragment
			1 quartz flake
			2 quartzite shatter (2 with cortex)
			7 ***lot sum***
TU 16, level 6, SW quad - Zone 3	Catalog #:	252	Artifacts:
			1 ceramic sherd - Accokeek Variant 1 (1 rim)
			1 fire-cracked rock (56.68 g)
			2 ***lot sum***
TU 16, level 7, NE quad - Zone 4A	Catalog #:	253	Artifacts:
			1 bone fragment
			1 quartzite flake
			1 quartz utilized flake
			3 ***lot sum***
TU 16, level 7, SE quad - Zone 4A	Catalog #:	254	Artifacts:
			1 ceramic sherd - Accokeek Variant 1
			2 quartz utilized flake
			3 ***lot sum***
TU 16, level 7, SW quad - Zone 4A	Catalog #:	255	Artifacts:
			1 quartz biface fragment with cortex
			1 ***lot sum***

TU 16, level 8, NW quad - Zone 4B Catalog #: 256

Artifacts:

1	quartzite flake
1	***lot sum***

TU 16, level 8, NE quad - Zone 4B Catalog #: 257

Artifacts:

1	quartz flake tool with cortex
1	quartz utilized flake
2	***lot sum***

TU 16, level 8, SE quad - Zone 4B Catalog #: 258

Artifacts:

1	hammerstone
1	***lot sum***

TU 16, level 8, SW quad - Zone 4B Catalog #: 259

Artifacts:

1	quartz utilized flake
1	***lot sum***

TU 16, level 9, SE quad - Zone 4C Catalog #: 262

Artifacts:

1	ceramic sherd - Accokeek Variant 1
1	***lot sum***

17 ***48*** ***Total Artifacts***

17, level 4, - Zone 1B Catalog #: 263

Artifacts:

3	ceramic sherd - Accokeek
3	quartzite flake (1 with cortex)
1	quartz misc. chipped stone tool
1	quartz Vernon point
1	quartz utilized flake
9	***lot sum***

TU 17, level 5, SW quad - Zone 2 Catalog #: 264

Artifacts:

1	ceramic sherd - Accokeek
4	ceramic sherd - Accokeek Variant 1
1	bone fragment

1	quartzite flake	
1	ljdz l·NÚÛ Îite contracting stem point, proximal fragment, heavily worn, impact fracture, possible Piscataway point	
8	***lot sum***	

17, level 5, NW quad - Zone 2 Catalog #: 265

Artifacts:

1	bone fragment
2	quartzite flake (1 with cortex)
1	quartz flake
4	***lot sum***

TU 17, level 6, SE quad - Zone 3 Catalog #: 266

Artifacts:

2	bone fragment
1	quartzite flake
1	quartzite flake tool with cortex
1	quartzite misc. chipped stone tool
1	quartzite shatter with cortex
2	quartz utilized flake
8	***lot sum***

TU 17, level 6, NW quad - Zone 3 Catalog #: 267

Artifacts:

1	quartz flake
1	quartz utilized flake
2	***lot sum***

TU 17, level 6, SW quad - Zone 3 Catalog #: 268

Artifacts:

1	bone fragment
2	quartz flake
1	quartz utilized flake
4	***lot sum***

TU 17, level 6, NE quad - Zone 3 Catalog #: 269

Artifacts:

1	hammerstone
1	***lot sum***

TU 17, level 7, SW quad - Zone 4A Catalog #: 270

Artifacts:

1	hammerstone
1	quartz utilized flake
2	***lot sum***

TU 17, level 7, SE quad - Zone 4A Catalog #: 271

Artifacts:

1	quartzite flake with cortex
1	chert flake with cortex
1	quartz flake
3	***lot sum***

TU 17, level 8, SE quad - Zone 4B Catalog #: 272

Artifacts:

1	hammerstone
1	***lot sum***

TU 17, level 8, NE quad - Zone 4B Catalog #: 273

Artifacts:

1	hammerstone
1	***lot sum***

TU 17, level 9, SW quad - Zone 4C Catalog #: 275

Artifacts:

1	quartz flake
1	hammerstone
2	***lot sum***

TU 17, level 9, SE quad - Zone 4C Catalog #: 276

Artifacts:

1	quartzite flake with cortex
1	quartz flake tool with cortex
1	hammerstone
3	***lot sum***

TU 18 ***93*** ***Total Artifacts***

TU 18, level 2, - Zone 1A Catalog #: 277

Artifacts:

1	ceramic sherd - Accokeek
1	quartz flake

			2 ***lot sum***
TU 18, level 3, - Zone 1B	Catalog #:	278	Artifacts:
			1 ceramic sherd - Accokeek
			2 ceramic sherd - Accokeek Variant 1
			2 quartzite flake
			5 ***lot sum***
TU 18, level 4, - Zone 1B	Catalog #:	279	Artifacts:
			2 ceramic sherd - Accokeek
			4 ceramic sherd - Accokeek Variant 1
			2 quartz flake (1 with cortex)
			2 quartzite flake (1 with cortex)
			1 chert flake with cortex
			3 quartz utilized flake (2 with cortex)
			14 ***lot sum***
TU 18, level buried Ap, East Wall Clean Up - Zone 1B	Catalog #:	294	Artifacts:
			1 quartz point fragment, tip fragment, evidence of reuse as a scraper on reverse side of break hinge
			1 ***lot sum***
TU 18, level buried Ap/B interface, SE quad - Zone 1B	Catalog #:	295	Artifacts:
			1 quartz flake tool with cortex
			1 quartz shatter with cortex
			2 ***lot sum***
TU 18, level 5, NE quad - Zone 2	Catalog #:	280	Artifacts:
			3 ceramic sherd - Accokeek Variant 1
			1 fire-cracked rock (7.08 g)
			1 chert flake with cortex
			1 quartz flake
			1 quartz flake tool with cortex
			1 quartz utilized flake

			8 ***lot sum***
TU 18, level 5, SW quad - Zone 2	Catalog #:	281	Artifacts:
			2 ceramic sherd - Accokeek Variant 1
			1 bone fragment
			1 chert flake
			1 quartzite flake with cortex
			4 quartz flake
			1 quartzite shatter with cortex
			2 quartz utilized flake
			12 ***lot sum***
TU 18, level 5, NW quad - Zone 2	Catalog #:	282	Artifacts:
			11 ceramic sherd - Accokeek (1 rim)
			1 ceramic sherd - Accokeek Variant 1
			1 quartz flake
			13 ***lot sum***
TU 18, level 5, SE quad - Zone 2	Catalog #:	283	Artifacts:
			3 ceramic sherd - Accokeek Variant 1
			1 bone fragment
			2 quartz flake (1 with cortex)
			1 quartz utilized flake
			7 ***lot sum***
TU 18, level 6, SE quad - Zone 3	Catalog #:	284	Artifacts:
			1 fire-cracked rock (7.08 g)
			2 quartz flake (1 with cortex)
			2 quartzite flake
			5 ***lot sum***
TU 18, level 6, NW quad - Zone 3	Catalog #:	285	Artifacts:
			1 ceramic sherd - Accokeek Variant 1
			1 quartz biface fragment
			1 bone fragment

		3	quartz flake
		1	quartz utilized flake
		7	***lot sum***
TU 18, level 6, SW quad - Zone 3	Catalog #: 286		Artifacts:
		2	quartz flake
		2	***lot sum***
TU 18, level 6, NE quad - Zone 3	Catalog #: 287		Artifacts:
		1	quartz flake with cortex
		1	***lot sum***
TU 18, level 7, SW quad - Zone 4A	Catalog #: 288		Artifacts:
		1	chert flake
		4	quartz utilized flake (2 with cortex)
		5	***lot sum***
TU 18, level 7, NE quad - Zone 4A	Catalog #: 289		Artifacts:
		1	quartzite flake
		1	quartz flake
		2	***lot sum***
TU 18, level 7, NW quad - Zone 4A	Catalog #: 290		Artifacts:
		1	quartz flake
		1	quartz utilized flake with cortex
		2	***lot sum***
TU 18, level 7, SE quad - Zone 4A	Catalog #: 291		Artifacts:
		1	quartz flake
		1	***lot sum***
TU 18, level 8, SW quad - Zone 4B	Catalog #: 292		Artifacts:
		1	quartzite biface fragment
		1	quartz utilized flake

		2	*lot sum*
TU 18, level 8, NW quad - Zone 4B	Catalog #: 293	Artifacts:	
		2	quartz utilized flake
		2	*lot sum*

TU 19 (B/C) — 36 *Total Artifacts*

TU 19 (B/C), level 3, SE-Quad B - Zone 1B	Catalog #: 355	Artifacts:	
		2	ceramic sherd - Accokeek
		1	quartz flake with cortex
		1	quartzite flake
		1	ceramic sherd - Potomac Creek
		1	shell fragment
		6	*lot sum*
TU 19 (B/C), level 2, NE-Quad C - Zone 1B	Catalog #: 360	Artifacts:	
		1	ceramic sherd - Accokeek
		1	ceramic sherd - Accokeek Variant 1
		2	*lot sum*
TU 19 (B/C), level 4, SE-Quad B - Zone 2	Catalog #: 356	Artifacts:	
		1	ceramic sherd - Accokeek
		1	ceramic sherd - Accokeek Variant 1
		1	bone fragment
		2	gorget fragments (small)
		1	quartzite misc. chipped stone tool , drill midsection
		6	*lot sum*
TU 19 (B/C), level 3, NE-Quad C - Zone 2	Catalog #: 361	Artifacts:	
		1	ceramic sherd - Accokeek
		1	ceramic sherd - Accokeek Variant 1
		1	gorget fragment
		3	*lot sum*

TU 19 (B/C), level 5, SE-Quad B - Zone 3	Catalog #: 357	Artifacts:	
		1	quartz flake
		1	***lot sum***
TU 19 (B/C), level 4, NE-Quad C - Zone 3	Catalog #: 362	Artifacts:	
		2	ceramic sherd - Accokeek
		1	bone fragment
		1	fire-cracked rock (7.08 g)
		2	gorget fragments
		6	***lot sum***
TU 19 (B/C), level 6, SE-Quad B - Zone 4A	Catalog #: 358	Artifacts:	
		1	quartz utilized flake
		1	***lot sum***
TU 19 (B/C), level 6, NE-Quad C - Zone 4A	Catalog #: 363	Artifacts:	
		2	ceramic sherd - Accokeek
		1	quartz flake
		3	***lot sum***
TU 19 (B/C), level 7, SE-Quad B - Zone 4B	Catalog #: 359	Artifacts:	
		3	ceramic sherd - Accokeek
		1	ceramic sherd - Accokeek Variant 1
		1	quartz flake
		5	***lot sum***
TU 19 (B/C), level 7, NE-Quad C - Zone 4B	Catalog #: 364	Artifacts:	
		1	ceramic sherd - Accokeek
		1	ceramic sherd - Accokeek Variant 1
		1	chert shatter with cortex
		3	***lot sum***
TU 20 (D/E)		***32***	***Total Artifacts***

TU 20 (D/E), level 3, Quad D & E (North Half of TU) - Zone 1B

Catalog #: 365

Artifacts:

1	quartz flake
1	***lot sum***

TU 20 (D/E), level 4, NW-Quad D - Zone 2

Catalog #: 366

Artifacts:

2	quartz flake (1 with cortex)
1	quartzite flake with cortex
3	***lot sum***

TU 20 (D/E), level 4, NE-Quad E - Zone 2

Catalog #: 370

Artifacts:

1	quartzite flake with cortex
1	quartz misc. chipped stone tool with cortex
2	***lot sum***

TU 20 (D/E), level 5, NW-Quad D - Zone 3

Catalog #: 367

Artifacts:

1	quartz biface fragment with cortex, stem fragment (bificial)
2	fire-cracked rock (141.7 g)
2	quartzite flake (1 with cortex)
1	quartz shatter with cortex
6	***lot sum***

TU 20 (D/E), level 5, NE-Quad E - Zone 3

Catalog #: 371

Artifacts:

3	fire-cracked rock (354.25 g)
2	quartzite flake (2 with cortex)
1	quartz flake with cortex
6	***lot sum***

TU 20 (D/E), level 6, NW-Quad D - Zone 4A

Catalog #: 368

Artifacts:

3	quartzite flake (2 with cortex)
1	quartzite shatter
1	quartz utilized flake with cortex
1	quartz worked/tested cobble with cortex

		6	***lot sum***
TU 20 (D/E), level 6, NE-Quad E - Zone 4A	Catalog #: 372	Artifacts:	
		1	fire-cracked rock (42.51 g)
		1	quartz flake with cortex
		2	quartzite flake (1 with cortex)
		1	quartz shatter
		5	***lot sum***
TU 20 (D/E), level 7, NW-Quad D - Zone 4B	Catalog #: 369	Artifacts:	
		1	quartzite flake with cortex
		1	***lot sum***
TU 20 (D/E), level 7, NE-Quad E - Zone 4B	Catalog #: 373	Artifacts:	
		1	ceramic sherd - Accokeek
		1	ceramic sherd - Potomac Creek
		2	***lot sum***
TU 21 (F/G)		63	***Total Artifacts***
TU 21 (F/G), level 3, Quad F & G (North Half of TU) - Zone 1B	Catalog #: 374	Artifacts:	
		1	ceramic sherd - Accokeek
		1	quartzite biface fragment
		1	quartzite flake
		3	***lot sum***
TU 21 (F/G), level 3, Quad F & G Wall Fall (North Half of TU) - Zone 1B	Catalog #: 383	Artifacts:	
		1	ceramic sherd - Accokeek Variant 1
		1	***lot sum***
TU 21 (F/G), level 4, NW-Quad F - Zone 2	Catalog #: 375	Artifacts:	
		2	quartzite flake (1 with cortex)
		3	quartz flake (2 with cortex)

		5 *lot sum*
TU 21 (F/G), level 4, NE-Quad G - Zone 2	Catalog #: 379	Artifacts:
		1 fire-cracked rock (7.08 g)
		1 quartz flake
		3 quartzite flake (3 with cortex)
		1 argillite flake
		1 quartz flake tool
		3 quartzite shatter (3 with cortex)
		2 quartz utilized flake
		12 *lot sum*
TU 21 (F/G), level 5, NW-Quad F - Zone 3	Catalog #: 376	Artifacts:
		1 ceramic sherd - Accokeek
		1 quartz core/core fragment with cortex
		5 fire-cracked rock (396.76 g)
		2 quartz flake (1 with cortex)
		5 quartzite flake (4 with cortex)
		1 quartz utilized flake
		15 *lot sum*
TU 21 (F/G), level 5, NE-Quad G - Zone 3	Catalog #: 380	Artifacts:
		1 fire-cracked rock (85.02 g)
		1 quartz flake with cortex
		1 quartzite flake with cortex
		5 chert shatter (4 with cortex)
		2 quartz utilized flake (1 with cortex)
		1 argillite utilized flake
		11 *lot sum*
TU 21 (F/G), level 6, NW-Quad F - Zone 4A	Catalog #: 377	Artifacts:
		2 fire-cracked rock (70.85 g)
		2 quartzite flake (2 with cortex)
		1 quartz flake with cortex
		2 quartz shatter (2 with cortex)
		1 quartz utilized flake

		8	*lot sum*
TU 21 (F/G), level 6, NE-Quad G - Zone 4A	Catalog #: 381	Artifacts:	
		1	quartzite flake
		1	quartz utilized flake
		2	*lot sum*
TU 21 (F/G), level 7, NW-Quad F - Zone 4B	Catalog #: 378	Artifacts:	
		1	quartzite flake
		2	quartz flake
		1	hammerstone
		4	*lot sum*
TU 21 (F/G), level 7, NE-Quad G - Zone 4B	Catalog #: 382	Artifacts:	
		1	quartzite flake
		1	quartz flake with cortex
		2	*lot sum*
TU 22 (H/I)		82	*Total Artifacts*
TU 22 (H/I), level 2, Quad H & I (North Half of TU) - Zone 1A	Catalog #: 384	Artifacts:	
		1	quartzite flake
		1	quartz utilized flake
		2	*lot sum*
TU 22 (H/I), level 3, Quad H & I (North Half of TU) - Zone 1B	Catalog #: 385	Artifacts:	
		3	quartz flake (1 with cortex)
		2	quartz utilized flake (1 with cortex)
		5	*lot sum*
TU 22 (H/I), level , Quad H & I Wall Fall Clean Up (North Half of TU) - Zone 1B	Catalog #: 394	Artifacts:	
		1	ceramic sherd - Accokeek (1 rim)

		1 ***lot sum***
TU 22 (H/I), level 4, NW-Quad H - Zone 2	Catalog #: 386	Artifacts:
		1 fire-cracked rock (127.53 g)
		4 quartzite flake (2 with cortex)
		3 quartz flake
		1 ℕKè⇄f℧ú Ŝ {I·ØI·yỹ1·K w℧ØŜℕ ōℕ⇄I·ŘăLJŜI·ℕΣ proximal fragment, transverse fracture
		1 quartz shatter with cortex
		10 ***lot sum***
TU 22 (H/I), level 4, NE-Quad I - Zone 2	Catalog #: 390	Artifacts:
		1 ceramic sherd - Accokeek (1 rim)
		1 ceramic sherd - Accokeek Variant 1
		1 bone fragment
		3 quartz flake
		1 quartzite flake with cortex
		4 quartzite shatter (4 with cortex)
		1 quartz utilized flake with cortex
		12 ***lot sum***
TU 22 (H/I), level 5, NW-Quad H - Zone 3	Catalog #: 387	Artifacts:
		4 quartzite flake (2 with cortex)
		1 quartz flake
		1 rhyolite flake
		2 quartz flake tool (2 with cortex)
		2 quartzite shatter (2 with cortex)
		1 quartz utilized flake with cortex
		11 ***lot sum***
TU 22 (H/I), level 5, NE-Quad I - Zone 3	Catalog #: 391	Artifacts:
		1 quartzite core/core fragment
		3 fire-cracked rock (240.89 g)
		7 quartzite flake (1 with cortex)
		8 quartz flake (3 with cortex)

2	quartz point fragment, possible tips. One fragment exhibits evidence of pry break.
1	quartz shatter
1	chert shatter with cortex
2	quartz utilized flake (1 with cortex)
25	***lot sum***

TU 22 (H/I), level 6, NW-Quad H - Zone 4A Catalog #: 388

Artifacts:

1	rhyolite flake
1	quartz flake with cortex
2	***lot sum***

TU 22 (H/I), level 6, NE-Quad I - Zone 4A Catalog #: 392

Artifacts:

2	chert flake
2	quartz flake (1 with cortex)
4	***lot sum***

TU 22 (H/I), level 7, NW-Quad H - Zone 4B Catalog #: 389

Artifacts:

1	bone fragment
4	chert flake
3	quartz flake (2 with cortex)
1	chert shatter with cortex
9	***lot sum***

TU 22 (H/I), level 7, NE-Quad I - Zone 4B Catalog #: 393

Artifacts:

1	quartz flake
1	***lot sum***

TU 23 (J/K) — *113* *Total Artifacts*

TU 23 (J/K), level 2, Quad J & K (North Half of TU) - Zone 1A Catalog #: 395

Artifacts:

1	quartz utilized flake with cortex
1	***lot sum***

TU 23 (J/K), level 3, Quad J & K (North Half of TU) - Zone 1B

Catalog #: 396

Artifacts:

1	ceramic sherd - Accokeek (1 rim)
1	ceramic sherd - Accokeek Variant 1
1	quartz utilized flake with cortex
3	***lot sum***

TU 23 (J/K), level 4, NW-Quad J - Zone 2

Catalog #: 397

Artifacts:

2	ceramic sherd - Accokeek Variant 1
1	bone fragment
8	quartz flake (1 with cortex)
6	quartzite flake (5 with cortex)
2	chert shatter (1 with cortex)
1	quartzite shatter with cortex
1	quartz shatter with cortex
3	quartz utilized flake
24	***lot sum***

TU 23 (J/K), level 4, NE-Quad K - Zone 2

Catalog #: 402

Artifacts:

1	ceramic sherd - Accokeek
3	ceramic sherd - Accokeek Variant 1
1	quartzite flake
1	quartz flake with cortex
1	ceramic sherd - Marcey Creek
1	quartzite shatter
1	quartz utilized flake
9	***lot sum***

TU 23 (J/K), level 5, NW-Quad J - Zone 3

Catalog #: 398

Artifacts:

1	ceramic sherd - Accokeek Variant 1 (1 rim)
1	quartzite core/core fragment
4	fire-cracked rock (340.08 g)
13	quartz flake (5 with cortex)
8	quartzite flake (4 with cortex)
1	quartzite shatter
4	quartz utilized flake (2 with cortex)

		32	***lot sum***
TU 23 (J/K), level 5, NE-Quad K - Zone 3	Catalog #: 403		Artifacts:
		1	ceramic sherd - Accokeek Variant 1
		5	fire-cracked rock (311.74 g)
		9	quartz flake (2 with cortex)
		6	quartzite flake (3 with cortex)
		1	chert flake tool with cortex
		2	quartz flake tool (2 with cortex)
		1	hammerstone
		1	quartz misc. chipped stone tool with cortex
		5	quartz utilized flake
		31	***lot sum***
TU 23 (J/K), level 6, NW-Quad J - Zone 4A	Catalog #: 399		Artifacts:
		2	quartz flake
		2	quartzite flake
		4	***lot sum***
TU 23 (J/K), level 6, NE-Quad K - Zone 4A	Catalog #: 404		Artifacts:
		1	quartz flake
		3	hammerstone
		4	***lot sum***
TU 23 (J/K), level 7, NW-Quad J - Zone 4B	Catalog #: 400		Artifacts:
		2	quartzite flake
		2	***lot sum***
TU 23 (J/K), level 8, NW-Quad J - Zone 4B	Catalog #: 401		Artifacts:
		1	quartz flake
		1	***lot sum***
TU 23 (J/K), level 7, NE-Quad K - Zone 4B	Catalog #: 405		Artifacts:
		2	quartz flake

		2 *lot sum*

TU 24 (L/M) — 59 *Total Artifacts*

TU 24 (L/M), level 2, Quad L & Quad M (North Half of TU) - Zone 1A

Catalog #: 406

Artifacts:

1	fire-cracked rock (14.17 g)
1	*lot sum*

TU 24 (L/M), level 3, Quad L & Quad M (North Half of TU) - Zone 1B

Catalog #: 407

Artifacts:

1	ceramic sherd - Accokeek Variant 1
2	fire-cracked rock (14.17 g)
1	quartz flake with cortex
3	quartzite flake (1 with cortex)
1	quartzite flake tool
8	*lot sum*

TU 24 (L/M), level 4, NW-Quad L - Zone 2

Catalog #: 408

Artifacts:

3	ceramic sherd - Accokeek
2	quartz flake (1 with cortex)
5	quartzite flake (2 with cortex)
2	quartzite shatter
12	*lot sum*

TU 24 (L/M), level 4, NE-Quad M - Zone 2

Catalog #: 412

Artifacts:

5	fire-cracked rock (878.54 g)
1	quartzite flake with cortex
6	*lot sum*

TU 24 (L/M), level 5, NW-Quad L - Zone 3

Catalog #: 409

Artifacts:

1	fire-cracked rock (14.17 g)
8	quartzite flake (5 with cortex)
5	quartz flake
3	quartz utilized flake

		17	*lot sum*
TU 24 (L/M), level 5, NE-Quad M - Zone 3	Catalog #: 413	Artifacts:	
		1	quartz biface fragment with cortex
		7	quartzite flake (5 with cortex)
		3	quartz flake
		1	quartz flake tool
		12	*lot sum*
TU 24 (L/M), level 6, NW-Quad L - Zone 4A	Catalog #: 410	Artifacts:	
		1	fire-cracked rock (42.51 g)
		1	*lot sum*
TU 24 (L/M), level 6, NE-Quad M - Zone 4A	Catalog #: 414	Artifacts:	
		1	quartzite flake
		1	*lot sum*
TU 24 (L/M), level 7, NW-Quad L - Zone 4B	Catalog #: 411	Artifacts:	
		1	fire-cracked rock (14.17 g)
		1	*lot sum*
TU 25 (N/O)		32	*Total Artifacts*
TU 25 (N/O), level 2, Quad N & Quad O (North Half of TU) - Zone 1A	Catalog #: 415	Artifacts:	
		2	quartzite flake (2 with cortex)
		2	*lot sum*
TU 25 (N/O), level 3, Quad N & Quad O (North Half of TU) - Zone 1B	Catalog #: 416	Artifacts:	
		3	ceramic sherd - Accokeek Variant 1
		1	quartz flake with cortex
		1	quartzite flake with cortex
		5	*lot sum*

TU 25 (N/O), level 4, NW-Quad N - Zone 2 Catalog #: 417

Artifacts:

1	ceramic sherd - Accokeek Variant 1 (1 rim)
2	fire-cracked rock (28.34 g)
1	quartzite flake
1	quartz flake with cortex
5	***lot sum***

TU 25 (N/O), level 4, NE-Quad O - Zone 2 Catalog #: 421

Artifacts:

1	ceramic sherd - Accokeek
3	ceramic sherd - Accokeek Variant 1
2	quartz flake (1 with cortex)
2	quartzite flake (1 with cortex)
8	***lot sum***

TU 25 (N/O), level 5, NW-Quad N - Zone 3 Catalog #: 418

Artifacts:

1	quartzite flake
1	quartz utilized flake with cortex
2	***lot sum***

TU 25 (N/O), level 5, NE-Quad O - Zone 3 Catalog #: 422

Artifacts:

1	ceramic sherd - Accokeek Variant 1 (1 rim)
1	quartz flake with cortex
1	hammerstone
3	***lot sum***

TU 25 (N/O), level 6, NE-Quad O - Zone 4A Catalog #: 423

Artifacts:

1	hammerstone
1	***lot sum***

TU 25 (N/O), level 7, NW-Quad N - Zone 4B Catalog #: 420

Artifacts:

3	quartz flake (1 with cortex)
1	quartzite flake
4	***lot sum***

TU 25 (N/O), level 7, NE-Quad O - Zone 4B Catalog #: 424

Artifacts:

2	hammerstone
2	***lot sum***

TU 5 and 6 Vicinity — *1 Total Artifacts*

TU 5 and 6 Vicinity, level Post Hurricane Sandy Wall Clean Up, - Zone 1B Catalog #: 428

Artifacts:

1	hammerstone
1	***lot sum***

STP N10 E80 STP — *10 Total Artifacts*

STP N10 E80 STP, level IV, - Zone 1B Catalog #: 3

Artifacts:

5	ceramic sherd - Accokeek
5	ceramic sherd - Accokeek Variant 1
10	***lot sum***

TU Phase I TU 1 — *26 Total Artifacts*

TU Phase I TU 1, level III, - Zone 1B Catalog #: 4

Artifacts:

1	ceramic sherd - Accokeek
1	fire-cracked rock (2.83 g)
1	quartz flake with cortex
2	ceramic sherd - Mockley
5	***lot sum***

TU Phase I TU 1, level IV-a, - Zone 2 Catalog #: 5

Artifacts:

4	ceramic sherd - Accokeek (1 rim)
1	ceramic sherd - Accokeek Variant 1
1	bone fragment
1	quartzite flake
1	ceramic sherd - Mockley (rim)
8	***lot sum***

TU Phase I TU 1, level IV-b, - Zone 3 Catalog #: 6

Artifacts:

1	ceramic sherd - Accokeek Variant 1	
1	quartz flake	
2	***lot sum***	

TU Phase I TU 1, level V, - Zone 4a Catalog #: 7

Artifacts:

1	fire-cracked rock (946.55 g)
4	quartz flake (2 with cortex)
5	***lot sum***

TU Phase I TU 1, level VI, - Zone 4b Catalog #: 8

Artifacts:

2	fire-cracked rock (158.7 g)
1	quartzite flake with cortex
3	quartz flake (1 with cortex)
6	***lot sum***

Block 1 artifact total = **1668**

Sample Unit

TU A ***11 Total Artifacts***

TU A, level 4, - Zone 1B Catalog #: 296

Artifacts:

1	quartz flake
1	***lot sum***

TU A, level 5, - Zone 2 Catalog #: 297

Artifacts:

1	quartz flake
1	quartzite flake
2	***lot sum***

TU A, level 6, - Zone 3 Catalog #: 298

Artifacts:

1	quartzite early-mid stage biface/biface fragment with cortex
1	quartzite flake
1	quartz flake tool with cortex
3	***lot sum***

TU A, level 6, NE quad - Zone 3 Catalog #: 299

Artifacts:

		1	quartzite worked/tested cobble with cortex
		1	***lot sum***
TU A, level 7, - Zone 4A	Catalog #: 300	Artifacts:	
		1	quartzite flake with cortex
		1	quartz flake
		1	chert shatter with cortex
		3	***lot sum***
TU A, level 7, - Zone 4A	Catalog #: 302	Artifacts:	
		1	bone fragment
		1	***lot sum***

STP N0 E60 STP — *2 Total Artifacts*

STP N0 E60 STP, level IV, - Zone 1B	Catalog #: 1	Artifacts:	
		1	fire-cracked rock (5.66 g)
		1	quartz flake
		2	***lot sum***

TU N0 E65 — *43 Total Artifacts*

TU N0 E65, level 2, - Zone 1A	Catalog #: 17	Artifacts:	
		1	quartzite misc. chipped stone tool with cortex
		1	***lot sum***
TU N0 E65, level 4, - Zone 1A	Catalog #: 19	Artifacts:	
		1	quartzite flake with cortex
		1	quartz utilized flake
		2	***lot sum***
TU N0 E65, level 5, - Zone 1B	Catalog #: 20	Artifacts:	
		2	quartz flake (2 with cortex)
		2	***lot sum***
TU N0 E65, level 6, NE quad - Zone 1B	Catalog #: 21	Artifacts:	

		1	quartzite flake
		1	***lot sum***
TU N0 E65, level 8, NE quad - Zone 1B	Catalog #: 22	Artifacts:	
		1	fire-cracked rock (7.08 g)
		1	quartz shatter with cortex
		2	***lot sum***
TU N0 E65, level 8, SW quad - Zone 1B	Catalog #: 23	Artifacts:	
		1	fire-cracked rock (85.02 g)
		1	***lot sum***
TU N0 E65, level 9, SE quad - Zone 1B	Catalog #: 24	Artifacts:	
		1	fire-cracked rock (42.51 g)
		1	quartz flake
		1	other flake
		1	quartzite flake
		1	chert flake with cortex
		1	quartz utilized flake
		6	***lot sum***
TU N0 E65, level 8, SE quad - Zone 1B	Catalog #: 32	Artifacts:	
		1	other flake
		1	***lot sum***
TU N0 E65, level , Wall Scraping - Zone 1B	Catalog #: 39	Artifacts:	
		1	quartz utilized flake
		1	***lot sum***
TU N0 E65, level 10, SE quad - Zone 2	Catalog #: 26	Artifacts:	
		1	quartz utilized flake
		1	***lot sum***
TU N0 E65, level 10, NE quad - Zone 2	Catalog #: 27	Artifacts:	

		1	quartz early-mid stage biface/biface fragment with cortex
		1	fire-cracked rock (7.08 g)
		1	other flake with cortex
		1	quartz utilized flake
		4	***lot sum***
TU N0 E65, level 10, NW quad - Zone 2	Catalog #: 28	Artifacts:	
		1	quartz flake with cortex
		1	***lot sum***
TU N0 E65, level 10, SW quad - Zone 2	Catalog #: 29	Artifacts:	
		1	quartzite flake
		1	other flake
		1	quartz utilized flake
		3	***lot sum***
TU N0 E65, level 11, NW quad - Zone 3	Catalog #: 30	Artifacts:	
		2	other flake (1 with cortex)
		1	quartzite flake
		1	quartz flake tool with cortex
		4	***lot sum***
TU N0 E65, level 11, SW quad - Zone 3	Catalog #: 31	Artifacts:	
		1	quartz flake
		3	quartzite flake (1 with cortex)
		4	***lot sum***
TU N0 E65, level 14, SE quad - Zone 4B	Catalog #: 33	Artifacts:	
		1	other flake
		1	***lot sum***
TU N0 E65, level 14, NE quad - Zone 4B	Catalog #: 34	Artifacts:	
		1	quartz biface fragment
		1	other flake with cortex

			2 *lot sum*
TU N0 E65, level 14, NW quad - Zone 4B	Catalog #:	35	Artifacts:
			1 quartz utilized flake with cortex
			1 *lot sum*
TU N0 E65, level 14, SW quad - Zone 4B	Catalog #:	36	Artifacts:
			1 quartz utilized flake with cortex
			1 *lot sum*
TU N0 E65, level 15, NW quad - Zone 4C	Catalog #:	37	Artifacts:
			1 other flake with cortex
			1 *lot sum*
TU N0 E65, level 15, SW quad - Zone 4C	Catalog #:	38	Artifacts:
			1 quartz shatter
			1 quartz utilized flake
			1 other utilized flake
			3 *lot sum*
TU N0 E75			48 *Total Artifacts*
TU N0 E75, level 9, SE quad - Zone 1B	Catalog #:	117	Artifacts:
			1 quartz flake
			1 *lot sum*
TU N0 E75, level 10, NE quad - Zone 1B	Catalog #:	118	Artifacts:
			1 quartz flake
			1 *lot sum*
TU N0 E75, level 11, SE quad - Zone 2	Catalog #:	119	Artifacts:
			1 quartzite flake
			3 quartz flake (1 with cortex)
			1 quartz utilized flake

			5 ***lot sum***
TU N0 E75, level 11, SW quad - Zone 2	Catalog #:	120	Artifacts:
			2 quartz flake
			2 quartzite flake (1 with cortex)
			4 ***lot sum***
TU N0 E75, level 12, NE quad - Zone 3	Catalog #:	121	Artifacts:
			1 fire-cracked rock (77.93 g)
			1 quartz utilized flake
			2 ***lot sum***
TU N0 E75, level 12, NW quad - Zone 3	Catalog #:	122	Artifacts:
			3 fire-cracked rock (113.36 g)
			1 quartzite flake with cortex
			1 quartz shatter
			5 ***lot sum***
TU N0 E75, level 12, SE quad - Zone 3	Catalog #:	123	Artifacts:
			6 fire-cracked rock (198.38 g)
			2 quartzite flake
			5 quartz flake (2 with cortex)
			13 ***lot sum***
TU N0 E75, level 12, SW quad - Zone 3	Catalog #:	124	Artifacts:
			6 fire-cracked rock (368.42 g)
			1 quartzite misc. chipped stone tool with cortex
			1 quartz misc. chipped stone tool , possible drill base
			8 ***lot sum***
TU N0 E75, level 13, SW quad - Zone 4A	Catalog #:	125	Artifacts:
			2 quartz flake (1 with cortex)

		1	quartz point fragment, tip, evidence of pry break
		3	***lot sum***
TU N0 E75, level 13, SE quad - Zone 4A	Catalog #: 126	Artifacts:	
		1	fire-cracked rock (7.08 g)
		1	quartz flake
		2	***lot sum***
TU N0 E75, level 13, NE quad - Zone 4A	Catalog #: 127	Artifacts:	
		1	fire-cracked rock (269.23 g)
		1	***lot sum***
TU N0 E75, level 14, SW quad - Zone 4A	Catalog #: 128	Artifacts:	
		1	quartz flake
		1	quartzite flake
		1	quartz utilized flake
		3	***lot sum***
STP	**N0 E80 STP**	***1***	***Total Artifacts***
STP N0 E80 STP, level IV, - Zone 1B	Catalog #: 2	Artifacts:	
		1	quartzite flake
		1	***lot sum***
TU	**N5 E65**	***13***	***Total Artifacts***
TU N5 E65, level 1, - Zone 1A	Catalog #: 9	Artifacts:	
		1	quartz flake with cortex
		1	***lot sum***
TU N5 E65, level 4, - Zone 1B	Catalog #: 10	Artifacts:	
		1	quartz core/core fragment with cortex
		1	quartz flake with cortex
		1	quartz utilized flake

		3	*lot sum*
TU N5 E65, level 5, SW quad - Zone 1B	Catalog #: 11	Artifacts:	
		1	fire-cracked rock (35.42 g)
		1	quartzite flake
		2	*lot sum*
TU N5 E65, level 5, NW quad - Zone 1B	Catalog #: 12	Artifacts:	
		1	quartzite flake tool with cortex
		1	*lot sum*
TU N5 E65, level , Wall Fall Clean Up - Zone 1B	Catalog #: 429	Artifacts:	
		1	fire-cracked rock (56.68 g)
		1	*lot sum*
TU N5 E65, level 6, SW quad - Zone 2	Catalog #: 13	Artifacts:	
		1	rhyolite flake
		1	*lot sum*
TU N5 E65, level 6, NW quad - Zone 2	Catalog #: 14	Artifacts:	
		2	quartz utilized flake (1 with cortex)
		2	*lot sum*
TU N5 E65, level 6, NE quad - Zone 2	Catalog #: 15	Artifacts:	
		1	quartz flake
		1	*lot sum*
TU N5 E65, level 8, NW quad - Zone 4A	Catalog #: 16	Artifacts:	
		1	chert flake with cortex
		1	*lot sum*
TU N5 E74		18	*Total Artifacts*
TU N5 E74, level 3, - Zone 1A	Catalog #: 40	Artifacts:	

		1	quartz flake with cortex
		1	***lot sum***
TU N5 E74, level 4, - Zone 1A	Catalog #: 41	Artifacts:	
		1	quartz flake with cortex
		1	***lot sum***
TU N5 E74, level 6, SE quad - Zone 1B	Catalog #: 42	Artifacts:	
		1	quartzite flake
		1	***lot sum***
TU N5 E74, level 6, NW quad - Zone 1B	Catalog #: 43	Artifacts:	
		1	quartz flake
		1	***lot sum***
TU N5 E74, level 7, SE quad - Zone 2	Catalog #: 44	Artifacts:	
		1	quartzite flake with cortex
		1	quartz utilized flake with cortex
		2	***lot sum***
TU N5 E74, level 7, SW quad - Zone 2	Catalog #: 45	Artifacts:	
		1	quartzite flake with cortex
		1	quartz flake
		2	***lot sum***
TU N5 E74, level 7, NE quad - Zone 2	Catalog #: 46	Artifacts:	
		1	fire-cracked rock (60 g)
		4	quartzite flake (2 with cortex)
		5	***lot sum***
TU N5 E74, level 7, NW quad - Zone 2	Catalog #: 47	Artifacts:	
		2	quartz flake
		2	***lot sum***

TU N5 E74, level 9, NE quad - Zone 4A Catalog #: 48

Artifacts:

1	quartz flake with cortex
1	quartz utilized flake
2	***lot sum***

TU N5 E74, level 10, SE quad - Zone 4B Catalog #: 49

Artifacts:

1	quartz utilized flake
1	***lot sum***

TU S1 E75 — *77 Total Artifacts*

TU S1 E75, level 2, - Zone 1A Catalog #: 303

Artifacts:

1	fire-cracked rock (7.08 g)
2	quartzite flake (1 with cortex)
1	ceramic sherd - Mockley
1	quartz shatter
1	quartz utilized flake with cortex
6	***lot sum***

TU S1 E75, level 3, - Zone 1B Catalog #: 305

Artifacts:

1	quartzite early-mid stage biface/biface fragment
4	quartzite flake (2 with cortex)
4	quartz flake (2 with cortex)
1	quartz flake tool with cortex
2	quartz utilized flake (1 with cortex)
12	***lot sum***

TU S1 E75, level 4, NW quad - Zone 2 Catalog #: 306

Artifacts:

1	quartzite flake
2	quartz utilized flake
3	***lot sum***

TU S1 E75, level 4, NE quad - Zone 2 Catalog #: 307

Artifacts:

2	fire-cracked rock (14.17 g)

	1	quartzite flake tool
	1	quartzite shatter with cortex
	2	quartz utilized flake
	6	***lot sum***

TU S1 E75, level 4, SE quad - Zone 2

Catalog #: 308

Artifacts:

2	fire-cracked rock (127.53 g)
2	quartzite flake (2 with cortex)
1	quartz flake with cortex
5	***lot sum***

TU S1 E75, level 4, SW quad - Zone 2

Catalog #: 309

Artifacts:

1	fire-cracked rock (56.68 g)
1	quartzite flake with cortex
1	quartz utilized flake
3	***lot sum***

TU S1 E75, level 5, NW quad - Zone 3

Catalog #: 310

Artifacts:

7	fire-cracked rock (1076.92 g)
1	quartzite flake with cortex
1	quartzite shatter with cortex
1	quartz utilized flake
10	***lot sum***

TU S1 E75, level 5, NE quad - Zone 3

Catalog #: 311

Artifacts:

1	fire-cracked rock (14.17 g)
1	quartzite flake with cortex
1	hammerstone
3	***lot sum***

TU S1 E75, level 5, SW quad - Zone 3

Catalog #: 312

Artifacts:

2	fire-cracked rock (28.43 g)
3	quartzite flake (1 with cortex)
3	quartz flake (1 with cortex)
3	quartz utilized flake (1 with cortex)

			11 ***lot sum***
TU S1 E75, level 5, SE quad - Zone 3	Catalog #:	313	Artifacts:
			1 fire-cracked rock (63.76 g)
			1 quartzite flake with cortex
			1 quartz flake
			3 ***lot sum***
TU S1 E75, level 6, NW quad - Zone 4A	Catalog #:	314	Artifacts:
			2 quartz flake (1 with cortex)
			2 ***lot sum***
TU S1 E75, level 6, SW quad - Zone 4A	Catalog #:	316	Artifacts:
			4 quartz flake (2 with cortex)
			1 quartz misc. chipped stone tool
			5 ***lot sum***
TU S1 E75, level 6, SE quad - Zone 4A	Catalog #:	317	Artifacts:
			1 fire-cracked rock (28.34 g)
			1 quartz flake with cortex
			1 quartzite flake with cortex
			1 quartz worked/tested cobble with cortex
			4 ***lot sum***
TU S1 E75, level 7, NW quad - Zone 4B	Catalog #:	318	Artifacts:
			1 rhyolite flake
			1 ***lot sum***
TU S1 E75, level 7, SW quad - Zone 4B	Catalog #:	319	Artifacts:
			1 hammerstone
			1 ***lot sum***
TU S1 E75, level 7, SE quad - Zone 4B	Catalog #:	320	Artifacts:
			1 hammerstone

1	chert worked/tested cobble with cortex
2	***lot sum***

TU S1 E84 — ***4 Total Artifacts***

TU S1 E84, level 7, NE quad - Zone 1A — Catalog #: 50

Artifacts:

1	quartzite flake
1	***lot sum***

TU S1 E84, level 11, NW quad - Zone 1B — Catalog #: 51

Artifacts:

2	quartzite flake (1 with cortex)
2	***lot sum***

TU S1 E84, level 12, NE quad - Zone 2 — Catalog #: 52

Artifacts:

1	quartzite utilized flake with cortex
1	***lot sum***

Sample Unit artifact total = **217**

18CV492 ***artifact total =*** ***1885***

APPENDIX VI:

TERRESTRIAL ARCHEOLOGICAL PERMIT

Maryland Department of Planning
Maryland Historical Trust

Martin O'Malley
Governor

Anthony G. Brown
Lt. Governor

Richard Eberhart Hall
Secretary

Matthew J. Power
Deputy Secretary

May 3, 2012

Mr. John Newton
Manager, Office of Planning
Maryland Transit Administration
6 St. Paul St.
Baltimore, MD 21202

Dear Mr. Newton:

Thank you for your application for a permit to conduct terrestrial archeological investigations on land soon to be acquired by the Maryland Transit Administration associated with the project entitled *Dunkirk Park and Ride Lot.* I am especially grateful to you for the wealth of backup documentation provided along with the application that allowed me to conclude that the research proposed is well designed and will constitute a contribution to Maryland archeology. The original approved and signed permit is enclosed.

Please keep me informed of your progress (clhall@mdp.state.md.us), and let me know if there is anything I can do to assist you.

Sincerely,

Charles L. Hall
State Terrestrial Archeologist

enclosure

cc: Beth Cole (MHT)

RECEIVED
MAY - 7 2012
OFFICE OF PLANNING

100 Community Place • Crownsville, Maryland 21032-2023
Telephone: 410.514.7600 • Fax: 410.987.4071 • Toll Free: 1.800.756.0119 • TTY Users: Maryland Relay
Internet: www.marylandhistoricaltrust.net

Attn: Charlie Hall

Maryland Department of Planning

Maryland Historical Trust

APPLICATION FOR PERMIT UNDER MARYLAND ARCHEOLOGICAL HISTORIC PROPERTIES ACT: TERRESTRIAL ARCHEOLOGY

(Annotated Code of Maryland: SF § 5A-342)

1. **Name, title, position (if applicable), address, and telephone number of individual, firm, State agency, or institution applying for permit:** John Newton, Manager, Office of Planning, Maryland Transit Administration, 6 St. Paul Street, Baltimore, MD 21202. 410.767.3769 JNewton@mta.maryland.gov

2. **If different from Item No. 1, list name and daytime telephone number of person to be contacted if questions arise about application or permit:**
   (☒ Same as Item No. 1 – check if applicable)

3. **Project title, if assigned:** Dunkirk Park and Ride Lot

4. **Location of lands for which permit is requested:** Northeast quadrant of the intersection of MD 4 (Southern Maryland Boulevard) and Town Center Boulevard

   a. **County**: Calvert County

   Leave Blank Of You Do Not Know How To Determine UTM Or Latitude/Longitude

   b. **UTM zone _____ ; Northing 38°43'37.57"N ; Easting 76°39'28.75"W**

   c. **Attach written description and map, sketch, or plan showing specific sites or areas for which permit is desired. (Use Addendum Sheets as needed, and attach to application.)** See attached.

5. **Ownership of lands for which permit is requested:**
   a. **Name of State land unit and administering department *or*, if private land, name, address, and phone number of owner:** The Maryland Transit Administration will acquire the land from private owners by approximately June 2012.

   b. **Name, title/position (if applicable), and phone number of person designated by the State agency or landowner to serve as their principal contact/representative:** George Fabula, Manager of Real Estate, Maryland Transit Administration, 410.767.3908

6. **Is the proposed work part of a Federal or State undertaking subject to MHT review under Section 106 of the National Historic Preservation Act of 1966 or the Maryland Historical Trust Act of 1985, State Finance and Procurement Article §§ 5A-325 and 5A-326 of the Annotated Code of Maryland? Yes ☒ No ☐**

   If Yes:
   a. **Name of MHT staff reviewer:** Beth Cole / Tim Tamburrino

   b. **Attach all correspondence related to the MHT review to the permit application.**

7. **Detail the proposed work, including goals, techniques, and expected results. (Use Addendum Sheets as needed, and attach to application.):** See enclosed CD for past Section 106 correspondence, Phase I/II report, MOA and Ph III work plan.

8. **Discuss what the public benefits of the proposed project will be. (Use Addendum Sheets as needed, and attach to application.):** The Dunkirk Park and Ride project will provide a permanent park and ride facility for the MTA's No. 902 commuter bus. The No. 902 Commuter Bus route currently stops at a leased park and ride facility and the owner has indicated to the MTA that they are unwilling to enter a long term lease and may not wish to renew the existing lease when it expires.

   MTA's Commuter Bus service benefits the public by reducing the number of vehicles on the roads during peak congestion periods. This reduces air pollution and postpones the need for costly roadway capacity improvements. This commuter bus route serves residents along MD 2/4 from St. Leonard, MD to Washington, DC. The proposed lot will be larger than the existing leased lot to meet expected continued growth in the MTA's Commuter Bus service.

9. **Name, address, and qualifications of person(s) in charge of the archeological work.**
   a. **In overall charge of archeological work (attach vita including academic and professional experience):**

      Ms. Barbara Chi Hsiao-Silber,
      McCormick Taylor, Inc, 509 South Exeter Street, 4th Floor
      Baltimore, Maryland 21202 410.662.7400

   b. **If different from Item No. 9a, name, address, and qualifications of person(s) in charge who normally will be present at project site during fieldwork (attach vita including academic and professional experience):**

10. **Date fieldwork will begin:** On or after June 2012.

11. **Anticipated date fieldwork will conclude:** On or after August 2012

12. **Expected date when the draft report will be submitted (a final report must be submitted within 90 days of receipt of comments on the draft report from the administering agency and/or the Maryland Historical Trust, unless a revised deadline has been approved by the Trust):** November 2012

13. **Name and address of institution/organization where materials collected will be permanently curated:**
    Maryland Historical Trust

14. **Provisions for publication/reporting and distribution of results of work:**
    Project website and mailing to appropriate parties as specified in MOA.
    http://mta.maryland.gov/dunkirk-park-and-ride-project

If this application is approved, the applicant agrees to carry out the proposed excavations in accordance with the special conditions listed on pages 3 of this form, which must be attached to the application.

15. **Signature of applicant named in Item No. 1 above, and date of application:**

Signature	Date
	04/30/2012

16. **Concurrence by agency administering land or owner of the land for which permit is requested, if different from Applicant in Item No. 15 above:**

N/A		

Signature	Title	Date

Signature	Agency (if applicable)

17. Application approved:

Director, Maryland Historical Trust	Chief, Office of Archeology	Date

SPECIAL CONDITIONS

Special conditions for carrying out archeological excavations under this permit:

a. The permit is not exclusive in character, and, for State-owned or controlled lands, the State of Maryland reserves the right to use, lease, or permit the use of said land or any part thereof for any purpose.

b. The permit is specifically and exclusively for the work proposed herein, and the permittee is required to contact the Maryland Historical Trust and obtain written approval of any proposed changes to the permit approved scope of work. Violations are punishable under Maryland Code (SF § 5A-346) by imprisonment not exceeding 30 days or a fine not exceeding $1,000 or both.

c. Permittee indemnifies and holds harmless the State of Maryland, it's employees, agents, and servants from any claim arising out of or in connection with all matters connected with the permit, to the extent permitted by law.

d. Such guidance and protection as is consistent with the duties of the State official in charge of the area will be afforded the permit holder and his party.

e. All excavated areas must be restored by filling in the excavations and otherwise leaving the areas in as near original condition as is practicable.

f. The permittee shall conduct all operations in such a manner as to prevent the erosion of the land, pollution of the water resources, and damage to the watershed, and do all things necessary to prevent or reduce to the fullest extent the scarring of the lands.

g. The fieldwork, records made, and objects recovered are subject to inspection by the Chief of the Office of Archeology, or designee, at reasonable times.

h. A final report on work accomplished under this permit is required and must be provided to the Maryland Historical Trust (see Special Condition n, below). Final reports shall meet or exceed the Standards and Guidelines for Archeological Investigations in Maryland (Shaffer and Cole1994), and no report shall be considered final until Office of Archeology review determines that these standards and guidelines have been met. If submission of a final report is expected to take longer than six months after conclusion of the fieldwork, two copies of a brief preliminary report of work performed under this permit must be sent to the Office of Archeology, Maryland Historical Trust within one month of completing fieldwork.

i. This permit shall not relieve permittee from complying with all State, Federal, or Local laws, rules, and regulations.

j. When applicable, after the permit is approved, but before undertaking any work, the permittee must coordinate with the individual named in Item 5b.

k. A permit must be signed by the Director of the Maryland Historical Trust, the Chief of the Office of Archeology, and the landowner or a responsible official of the agency administering the land covered by the permit.

l. Permits are valid for one year from the date of approval unless otherwise specified.

m. Renewal or extension of a terrestrial Archeology permit requires that a new application by submitted accompanied by a written report on the investigations covered by the previous permit.

n. All archeological specimens removed from State-owned or controlled land are State property (SF § 5A-339 of the Annotated Code of Maryland) and shall be conserved at the Maryland Archeological Conservation Laboratory at Jefferson Patterson Park and Museum in Calvert County (SF § 5-326(c)(3)), unless this requirement is specifically exempted by the Office of Archeology as part of this permit. All archeological specimens must be conserved, cleaned, and cataloged by methods consistent with Collections and Conservation Standards of the Maryland Historical Trust (*Technical Update No. 1 of the Standards and Guidelines for Archeological Investigations in Maryland,* revised July 1, 2005).

o. Three copies of all reports, published and unpublished, resulting from investigations made under the terms of this permit must be submitted to the Maryland Historical Trust's Office of Archeology. As appropriate, one copy of all reports must also be submitted to the head of the agency on whose land the work was performed, or the owner of the land.

p. Other special conditions (to be completed by the Maryland Historical Trust):