



Phase II and Phase III Archaeological Database and Inventory

Site Number: 18CH737

Site Name: P-LJB-38

Prehistoric

Other name(s)

Historic

Unknown

Brief Description:

Middle & Late Archaic and Late Woodland short-term camps

Site Location and Environmental Data:

Maryland Archaeological Research Unit No. 11

SCS soil & sediment code EvB

Latitude 38.6240

Longitude -77.0131

Physiographic province Western Shore Coastal

Terrestrial site

Underwater site

Elevation m

Site slope 0-5%

Ethnobotany profile available

Maritime site

Site setting

-Site Setting restricted

-Lat/Long accurate to within 1 sq. mile, user may need to make slight adjustments in mapping to account for sites near state/county lines or streams

Topography

- Floodplain
- Hilltop/bluff
- Interior flat
- Upland flat
- Ridgetop
- Terrace
- Low terrace
- High terrace
- Rockshelter/cave
- Hillslope
- Unknown
- Other

Ownership

- Private
- Federal
- State of MD
- Regional/county/city
- Unknown

Nearest Surface Water

Name (if any) Unnamed tributary of Matta

- | Saltwater | | Freshwater | |
|--|--|--|--------------------------------|
| Ocean <input type="checkbox"/> | Estuary/tidal river <input type="checkbox"/> | Stream/river <input checked="" type="checkbox"/> | Swamp <input type="checkbox"/> |
| Tidewater/marsh <input type="checkbox"/> | Lake or pond <input type="checkbox"/> | Spring <input type="checkbox"/> | |
- Minimum distance to water is 20 m

Temporal & Ethnic Contextual Data:

- Paleoindian site
- Archaic site
- Early archaic
- Middle archaic
- Late archaic
- Woodland site
- MD Adena
- Early woodland
- Mid. woodland
- Late woodland
- Unknown prehistoric context

- Contact period site
- ca. 1820 - 1860
- ca. 1630 - 1675
- ca. 1675 - 1720
- ca. 1720 - 1780
- ca. 1780 - 1820
- Unknown historic context
- Unknown context
- ca. 1820 - 1860
- ca. 1860 - 1900
- ca. 1900 - 1930
- Post 1930

Ethnic Associations (historic only)

- Native American
- African American
- Anglo-American
- Hispanic
- Asian American
- Unknown
- Other

Y=Confirmed, P=Possible

Site Function Contextual Data:

- ### Prehistoric
- Multi-component
 - Village
 - Hamlet
 - Base camp
 - Rockshelter/cave
 - Earthen mound
 - Cairn
 - Burial area
 - Misc. ceremonial
 - Rock art
 - Shell midden
 - STU/lithic scatter
 - Quarry/extraction
 - Fish weir
 - Production area
 - Unknown
 - Other context

- ### Historic
- Urban/Rural?
 - Domestic
 - Homestead
 - Farmstead
 - Mansion
 - Plantation
 - Row/townhome
 - Cellar
 - Privy
 - Industrial
 - Mining-related
 - Quarry-related
 - Mill
 - Black/metalsmith
 - Furnace/forge
 - Other
 - Transportation
 - Canal-related
 - Road/railroad
 - Wharf/landing
 - Maritime-related
 - Bridge
 - Ford
 - Educational
 - Commercial
 - Trading post
 - Store
 - Tavern/inn
 - Military
 - Battlefield
 - Fortification
 - Encampment
 - Townsite
 - Religious
 - Church/mtg house
 - Ch support bldg
 - Burial area
 - Cemetery
 - Sepulchre
 - Isolated burial
 - Bldg or foundation
 - Possible Structure
 - Post-in-ground
 - Frame-built
 - Masonry
 - Other structure
 - Slave related
 - Non-domestic agri
 - Recreational
 - Midden/dump
 - Artifact scatter
 - Spring or well
 - Unknown
 - Other context

Interpretive Sampling Data:

Prehistoric context samples Soil samples taken N

Flotation samples taken N Other samples taken

Historic context samples Soil samples taken

Flotation samples taken Other samples taken



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Diagnostic Artifact Data:

| Projectile Point Types | | | |
|------------------------|--------------------------|------------------|--------------------------|
| Clovis | <input type="checkbox"/> | Koens-Crispin | <input type="checkbox"/> |
| Hardaway-Dalton | <input type="checkbox"/> | Perkiomen | <input type="checkbox"/> |
| Palmer | <input type="checkbox"/> | Susquehana | <input type="checkbox"/> |
| Kirk (notch) | <input type="checkbox"/> | Vernon | <input type="checkbox"/> |
| Kirk (stem) | <input type="checkbox"/> | Piscataway | 1 |
| Le Croy | <input type="checkbox"/> | Calvert | <input type="checkbox"/> |
| Morrow Mntn | <input type="checkbox"/> | Selby Bay | <input type="checkbox"/> |
| Guilford | 1 | Jacks Rf (notch) | <input type="checkbox"/> |
| Brewerton | 1 | Jacks Rf (pent) | <input type="checkbox"/> |
| Otter Creek | <input type="checkbox"/> | Madison/Potomac | 1 |
| | | Levanna | <input type="checkbox"/> |

Prehistoric Sherd Types

| | | | | | | | |
|---------------|--------------------------|----------------|--------------------------|---------------|--------------------------|---------------|--------------------------|
| Marcey Creek | <input type="checkbox"/> | Popes Creek | <input type="checkbox"/> | Shepard | <input type="checkbox"/> | Keyser | <input type="checkbox"/> |
| Dames Qtr | <input type="checkbox"/> | Coulbourn | <input type="checkbox"/> | Townsend | <input type="checkbox"/> | Yeocomico | <input type="checkbox"/> |
| Selden Island | <input type="checkbox"/> | Watson | <input type="checkbox"/> | Minguannan | <input type="checkbox"/> | Monongahela | <input type="checkbox"/> |
| Accokeek | <input type="checkbox"/> | Mockley | <input type="checkbox"/> | Sullivan Cove | <input type="checkbox"/> | Susquehannock | <input type="checkbox"/> |
| Wolfe Neck | <input type="checkbox"/> | Clemson Island | <input type="checkbox"/> | Shenks Ferry | <input type="checkbox"/> | | |
| Vinette | <input type="checkbox"/> | Page | <input type="checkbox"/> | Moyaone | 2 | | |
| | | | | Potomac Crk | 3 | | |

Historic Sherd Types

| | | | | | | | |
|--------------------|--------------------------|-------------|--------------------------|------------------|--------------------------|------------------|--------------------------|
| Earthenware | | Ironstone | <input type="checkbox"/> | Staffordshire | <input type="checkbox"/> | Stoneware | |
| Astbury | <input type="checkbox"/> | Jackfield | <input type="checkbox"/> | Tin Glazed | <input type="checkbox"/> | English Brown | <input type="checkbox"/> |
| Borderware | <input type="checkbox"/> | Mn Mottled | <input type="checkbox"/> | Whiteware | <input type="checkbox"/> | Eng Dry-bodied | <input type="checkbox"/> |
| Buckley | <input type="checkbox"/> | North Devon | <input type="checkbox"/> | Porcelain | <input type="checkbox"/> | Nottingham | <input type="checkbox"/> |
| Creamware | <input type="checkbox"/> | Pearlware | <input type="checkbox"/> | | | Rhenish | <input type="checkbox"/> |
| | | | | | | Wt Salt-glazed | <input type="checkbox"/> |

All quantities exact or estimated minimal counts

Other Artifact & Feature Types:

| Prehistoric Artifacts | | | |
|-----------------------|--------------------------|------------------|--------------------------|
| Flaked stone | 741 | Other fired clay | <input type="checkbox"/> |
| Ground stone | <input type="checkbox"/> | Human remain(s) | <input type="checkbox"/> |
| Stone bowls | <input type="checkbox"/> | Modified faunal | <input type="checkbox"/> |
| Fire-cracked rock | 32 | Unmod faunal | <input type="checkbox"/> |
| Other lithics (all) | 6 | Oyster shell | <input type="checkbox"/> |
| Ceramics (all) | 27 | Floral material | <input type="checkbox"/> |
| Rimsherds | <input type="checkbox"/> | Uncommon Obj. | <input type="checkbox"/> |
| | | Other | <input type="checkbox"/> |

Prehistoric Features

| | | | |
|-------------------|--------------------------|-------------------|--------------------------|
| Mound(s) | <input type="checkbox"/> | Storage/trash pit | <input type="checkbox"/> |
| Midden | <input type="checkbox"/> | Burial(s) | <input type="checkbox"/> |
| Shell midden | <input type="checkbox"/> | Ossuary | <input type="checkbox"/> |
| Postholes/molds | <input type="checkbox"/> | Unknown | <input type="checkbox"/> |
| House pattern(s) | <input type="checkbox"/> | Other | <input type="checkbox"/> |
| Palisade(s) | <input type="checkbox"/> | | |
| Hearth(s) | <input type="checkbox"/> | | |
| Lithic reduc area | <input type="checkbox"/> | | |

Lithic Material

| | | | | | |
|-----------|-------------------------------------|---------------|-------------------------------------|----------------|--------------------------|
| Jasper | <input type="checkbox"/> | Fer quartzite | <input type="checkbox"/> | Sil sandstone | <input type="checkbox"/> |
| Chert | <input checked="" type="checkbox"/> | Chalcedony | <input type="checkbox"/> | European flint | <input type="checkbox"/> |
| Rhyolite | <input type="checkbox"/> | Ironstone | <input type="checkbox"/> | Basalt | <input type="checkbox"/> |
| Quartz | <input checked="" type="checkbox"/> | Argilite | <input type="checkbox"/> | Unknown | <input type="checkbox"/> |
| Quartzite | <input checked="" type="checkbox"/> | Steatite | <input type="checkbox"/> | Other | <input type="checkbox"/> |
| | | Sandstone | <input checked="" type="checkbox"/> | | |

Dated features present at site

| Historic Artifacts | | | |
|--------------------|--------------------------|------------------|--------------------------|
| Pottery (all) | 2 | Tobacco related | <input type="checkbox"/> |
| Glass (all) | 1 | Activity item(s) | <input type="checkbox"/> |
| Architectural | <input type="checkbox"/> | Human remain(s) | <input type="checkbox"/> |
| Furniture | <input type="checkbox"/> | Faunal material | <input type="checkbox"/> |
| Arms | <input type="checkbox"/> | Misc. kitchen | <input type="checkbox"/> |
| Clothing | <input type="checkbox"/> | Floral material | <input type="checkbox"/> |
| Personal items | <input type="checkbox"/> | Misc. | <input type="checkbox"/> |
| | | Other | <input type="checkbox"/> |

Historic Features

| | | | | | | | |
|--------------------|--------------------------|------------------|--------------------------|------------------|--------------------------|---------|--------------------------|
| Const feature | <input type="checkbox"/> | Privy/outhouse | <input type="checkbox"/> | Depression/mound | <input type="checkbox"/> | Unknown | <input type="checkbox"/> |
| Foundation | <input type="checkbox"/> | Well/cistern | <input type="checkbox"/> | Burial(s) | <input type="checkbox"/> | Other | <input type="checkbox"/> |
| Cellar hole/cellar | <input type="checkbox"/> | Trash pit/dump | <input type="checkbox"/> | Railroad bed | <input type="checkbox"/> | | |
| Hearth/chimney | <input type="checkbox"/> | Sheet midden | <input type="checkbox"/> | Earthworks | <input type="checkbox"/> | | |
| Postholes/molds | <input type="checkbox"/> | Planting feature | <input type="checkbox"/> | Mill raceway | <input type="checkbox"/> | | |
| Paling ditch/fence | <input type="checkbox"/> | Road/walkway | <input type="checkbox"/> | Wheel pit | <input type="checkbox"/> | | |

All quantities exact or estimated minimal counts

Radiocarbon Data:

Sample 1: +/- years BP Reliability Sample 2: +/- years BP Reliability Sample 3: +/- years BP Reliability

Sample 4: +/- years BP Reliability Sample 5: +/- years BP Reliability Sample 6: +/- years BP Reliability

Sample 7: +/- years BP Reliability Sample 8: +/- years BP Reliability Sample 9: +/- years BP Reliability

Additional radiocarbon results available



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Unknown

External Samples/Data:

Collection curated at

Additional raw data may be available online

Summary Description:

Site 18CH737 (P-LJB-38) is a prehistoric site located in northern Charles County, Maryland that appears to be the remnants of a series of Middle and Late Archaic, as well as Late Woodland encampments. The site is situated on the north face of a forested ridge east of Mattawoman Creek. It is flanked by intermittent drainages immediately to the north, east, and west, and overlooks an unnamed stream located to the north which flows toward Mattawoman Swamp. Soils at the site are primarily of the Grosstown-Woodstown-Beltsville complex.

The site was first identified during Phase I survey in 2004 as part of a liquefied natural gas (LNG) pipeline project in Calvert, Charles, and Prince George's Counties. The proposed construction work involved the installation of a 36-inch pipeline over 48 miles of right-of-way, as well as construction of ancillary facilities (e.g. pipeyards and access roads). As such, Phase I and, in some cases, Phase II work was conducted throughout the pipeline right-of-way and in other areas that might be impacted by the construction. Four total episodes of Phase I and II archeological excavations were conducted at 18CH737 due to its location along both the original pipeline right-of-way (ROW) and along an alternative southern ROW proposed in 2005. These four rounds of Phase I-II work resulted in the excavation of 202 STPs (with 106 positive) and nine 1 X 1 m test units, yielding 809 total artifacts. Analysis of these artifacts will be discussed below as a single group, following a brief description of each project.

Phase I work in the original pipeline ROW began in July of 2004 and involved systematic shovel testing at 15 m intervals. STPs measured approximately 50 cm in diameter, and were excavated in natural soil horizons 15 cm into sterile subsoil. Excavated soils were screened through hardware mesh. Eight positive shovel tests defined the original site dimensions to be 80 m east-west by 25 meters north-south. Twelve lithics were recovered, but no artifacts or features indicative of the site's age were recovered during the original Phase I survey. Stratigraphy at 18CH737 was interpreted to be relatively undisturbed, consisting of a standard A-B1-B2 soil sequence. It was not clear whether the A horizon represented a plowzone, deflated plowzone, or largely undisturbed topsoil. Artifacts were recovered from the A horizon and from the top of the B horizon, indicating this represents a near-surface lithic scatter. Based on these findings, the site was initially interpreted as the remains of a small Native American encampment. Since the site could not be avoided during pipeline construction, Phase II testing was recommended.

Phase II work was conducted in May of 2005 and included additional shovel testing as well as the excavation of 1 X 1 m test units. A grid was established using a total station and the centerline of the ROW as an arbitrary east-west axis. Grid North was oriented perpendicular to the pipeline centerline and approximately 3° to the east of magnetic north. Phase II fieldwork included the excavation of 90 STPs excavated in 7 parallel transects at 5 m intervals across the upper flat landform. Of these, 31 yielded a total of 69 lithic artifacts and 3 historic/modern artifacts. Based on these supplementary STPs, the site boundaries were expanded to encompass an area 90 m east-west by 30 m north-south. The density of recovered materials suggests a relatively low-density lithic scatter with increased artifact densities toward the south and east.

In addition to the 90 STPs, the original Phase II fieldwork included the excavation of three 1 X 1 m test units. Test units were hand-excavated by arbitrary 10 cm levels within natural strata to a minimum depth of 10 cm into the B horizon and 10 cm below the last recovered artifact. These three units were placed at approximately 15 m intervals on a northeast-southwest trajectory to sample the entire site. Excavation of these 3 original Phase II test unit excavations yielded 140 lithic artifacts. Artifacts were generally recovered from the near-surface A horizons across the site. The lone diagnostic artifact from Phase II work was a Middle Archaic Guilford projectile point recovered from southernmost 1 X 1 m unit. As a whole, the assemblage is largely evidence of quartz and quartzite core and biface reduction.

In May of 2005, an alternate re-routing of the aforementioned LNG pipeline was proposed, resulting in re-examination of 18CH737 and points to the south of the previously defined site boundaries. A second Phase I survey was conducted in this area and consisted of the excavation of 42 STPs in three east-west oriented transects, as well as 7 radial STPs (49 total) around the site perimeter. The same parameters were followed in this Phase I as in the 2004 study. The 2005 Phase I STPs yielded 136 lithic artifacts and 5 prehistoric pottery sherds. This resulted in the expansion of the site boundary to the south and east for total site dimensions of 50 m north-south by 95 m east-west. Peak artifact densities were observed in the southeastern portion of the site. Identifiable artifacts included 5 pottery sherds (including Late Woodland Potomac Creek and Moyaone incised wares), a Late Woodland triangular point, as well as quartz and quartzite core and biface reduction debris. Again, since the site could not be avoided if this re-route was chosen, Phase II work needed to be conducted.

Additional Phase II work was conducted in August of 2005 utilizing the same methods employed in the previous Phase II work. During this study, 89 lithic artifacts were recovered from 31 positive STPs (of 53 total excavated). Six additional 1 X 1 m test units were subsequently excavated, yielding 356 lithic artifacts and 22 pieces of pottery. Each of these test units was placed near high-density Phase I STPs. Of these six test units, the unit in the southeastern corner of the site yielded 160 artifacts, while the remaining five each yielded only between 14 and 61 objects each. In addition to quartz and quartzite lithic debitage, excavations yielded two additional projectile points which provide information regarding the age of the site; a Late Archaic Brewerton eared point, and a Late Archaic or Woodland age Piscataway point. In addition, twenty-two fragments of prehistoric pottery (including one identifiable as Potomac Creek ware) were encountered in a single unit. No cultural features were identified during any of the four rounds of archeological work at the site.

Expert examination of the stratigraphy in test units and shovel tests revealed a well-developed ridgetop profile formed in loess over Coastal-Plain sediments. The presence of the A-E-Bt horizon sequence indicates that the landform has been stable for much of the Holocene. Overall, the upland landform encompassed by 18CH737 has likely changed little since the original loess deposition during the early-middle Holocene (>5,000 years BP). Study of the soils also seems to indicate that the multiple prehistoric occupations of the site were on the existing ground surface, with artifacts moving downward into subsoil due to natural, post-depositional disturbances.

All stages of excavation at Site 18CH737 produced a total of 809 artifacts, including 806 prehistoric and 3 historic/modern artifacts (a clear bottle glass fragment, and 2 earthenware sherds). Among the prehistoric artifacts are 779 lithic artifacts (96.6% of the assemblage) and 27 prehistoric ceramic sherds (3.4%). Test unit excavations yielded the majority of artifacts (65%), with the remainder recovered during STP excavation (35%).

Among the lithic artifacts were 5 projectile points, 12 bifaces, 8 cores, 1 retouched flake, 1 utilized flake, 1 sidescraper, 713 pieces of debitage, 5 hammerstones, 1 unmodified stream-bed cobble, and 32 fragments of fire-cracked rock. Quartz (424) and quartzite (329) were by far the preferred lithic raw materials for tool manufacture at the site, with chert (14), sandstone (6), rhyolite (5), and jasper (1) used far less. Cobble cortex accounts for 99% of the artifacts with cortex at the site, with only one rhyolite flake yielding block cortex. Overall, artifacts are from the reduction of locally-collected quartz, quartzite,



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Unknown

and chert stream cobbles, with only a trace amount of non-local materials (5 rhyolite flakes & 1 jasper flake) indicating long-distance travel/trade beyond the local area. No discrete concentrations of fire-cracked rock were observed that might indicate features.

The five projectile points encountered at the site date variably to the Middle Archaic, Late Archaic, and Late Woodland periods. These include the medial portion of a side-notched quartz point, a quartzite Guilford point, a quartz Brewerton eared-notched point, a quartz Piscataway point, and a quartz triangular point (probably Madison).

In addition to the 779 lithic artifacts, excavations yielded 27 prehistoric pottery sherds. All sherds were recovered from the same general area, in the far eastern portion of the site from both STPs and test units (and in the same area where the Late Woodland triangular point was encountered). Seven body sherds and 20 untyped crumbs were recovered at the site. Two of the body sherds are Moyaone incised, 3 are Potomac Creek, and 1 can be identified as an untyped Late Woodland form. These pottery sherds substantiate the presence of a small Late Woodland encampment in the eastern portion of the site. However, the Middle Archaic Guilford and Late Archaic Brewerton points in the same general area as the sherds, indicate a lack of horizontal separation of the various site occupations.

Site 18CH737 has experienced few disturbances during the European occupation of the area, with only localized historic plowing in only some sectors of the site and therefore retains moderate-good integrity. Testing shows, however, that the multiple prehistoric occupations of the same ground surface have resulted in a mixed artifact assemblage. Artifacts from the Middle Archaic, Late Archaic, and Late Woodland periods are concentrated in the southern portion of the site, with no vertical or horizontal separation of the various components. No prehistoric features were identified during excavations. Based on the temporally-mixed deposits, an artifact assemblage geared to lithic reduction, and the lack of identified features, Site 18CH737 lacks the potential to address important research issues.

External Reference Codes (Library ID Numbers):

97002596