



# Phase II and Phase III Archaeological Database and Inventory

Site Number: 18KE44

Site Name: KCARP AN-11

Prehistoric

Other name(s)

Historic

Unknown

Brief Description:

Early, Middle, and Late Woodland shell midden with lithics & ceramics

## Site Location and Environmental Data:

Maryland Archaeological Research Unit No. 5

SCS soil & sediment code MxB

Latitude 39.3143

Longitude -76.1669

Physiographic province Eastern Shore Coastal P

Terrestrial site

Underwater site

Elevation 20 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 tidal pond

#### Saltwater

- Ocean
- Estuary/tidal river
- Tidewater/marsh

#### Freshwater

- Stream/river
- Swamp
- Lake or pond
- Spring

Minimum distance to water is 0 m

## Temporal & Ethnic Contextual Data:

Paleoindian site

Woodland site

Contact period site  ca. 1820 - 1860

Archaic site P

MD Adena

ca. 1630 - 1675

ca. 1860 - 1900

Early archaic

Early woodland Y

ca. 1675 - 1720

ca. 1900 - 1930

Middle archaic

Mid. woodland Y

ca. 1720 - 1780

Post 1930

Late archaic

Late woodland Y

ca. 1780 - 1820

Unknown historic context

Unknown prehistoric context

Unknown context

### 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 Y

Flotation samples taken N

Other samples taken faunal analysis

### Historic context samples

Soil samples taken

Flotation samples taken

Other samples taken



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## Diagnostic Artifact Data:

Projectile Point Types		Koens-Crispin	
Clovis	<input type="checkbox"/>	Perkiomen	<input type="checkbox"/>
Hardaway-Dalton	<input type="checkbox"/>	Susquehana	<input type="checkbox"/>
Palmer	<input type="checkbox"/>	Vernon	<input type="checkbox"/>
Kirk (notch)	<input type="checkbox"/>	Piscataway	<input type="checkbox"/>
Kirk (stem)	<input type="checkbox"/>	Calvert	<input type="checkbox"/>
Le Croy	<input type="checkbox"/>	Selby Bay	<input type="checkbox"/>
Morrow Mntn	<input type="checkbox"/>	Jacks Rf (notch)	<input type="checkbox"/>
Guilford	<input type="checkbox"/>	Jacks Rf (pent)	<input type="checkbox"/>
Brewerton	<input type="checkbox"/>	Madison/Potomac	<input type="checkbox"/>
Otter Creek	<input type="checkbox"/>	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"/> 2	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"/> 5	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	<input type="checkbox"/>		
				Potomac Crk	<input type="checkbox"/>		

## Historic Sherd Types

Earthenware		Ironstone		Staffordshire		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"/>	<b>Porcelain</b>	<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		Other fired clay	
Flaked stone	<input type="checkbox"/> 1731	Human remain(s)	<input type="checkbox"/>
Ground stone	<input type="checkbox"/>	Modified faunal	<input type="checkbox"/>
Stone bowls	<input type="checkbox"/>	Unmod faunal	<input type="checkbox"/> 141
Fire-cracked rock	<input type="checkbox"/>	Oyster shell	<input checked="" type="checkbox"/>
Other lithics (all)	<input type="checkbox"/>	Floral material	<input type="checkbox"/>
Ceramics (all)	<input type="checkbox"/> 7	Uncommon Obj.	<input type="checkbox"/>
Rimsherds	<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 checked="" 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 checked="" type="checkbox"/>	Ironstone	<input checked="" type="checkbox"/>	Basalt	<input type="checkbox"/>
Quartz	<input checked="" type="checkbox"/>	Argilite	<input checked="" type="checkbox"/>	Unknown	<input type="checkbox"/>
Quartzite	<input checked="" type="checkbox"/>	Steatite	<input type="checkbox"/>	Other	<input type="checkbox"/>
		Sandstone	<input type="checkbox"/>		

Dated features present at site

Midden Feature: dates from shell samples; low probability of accuracy; assoc. w/ Mockley and Townsend ceramics

Historic Artifacts		Tobacco related	
Pottery (all)	<input type="checkbox"/>	Activity item(s)	<input type="checkbox"/>
Glass (all)	<input type="checkbox"/>	Human remain(s)	<input type="checkbox"/>
Architectural	<input type="checkbox"/>	Faunal material	<input type="checkbox"/>
Furniture	<input type="checkbox"/>	Misc. kitchen	<input type="checkbox"/>
Arms	<input type="checkbox"/>	Floral material	<input type="checkbox"/>
Clothing	<input type="checkbox"/>	Misc.	<input type="checkbox"/>
Personal items	<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: 2635 +/- 65 years BP	Reliability	Sample 2: 3685 +/- 75 years BP	Reliability	Sample 3: 3470 +/- 75 years BP	Reliability
SI-2795: Oyster shell sample from unknown area in midden; possible assoc. artifacts were debitage and Mockley and/or Townsend sherds.	Low	SI-2796: Oyster shell sample from unknown area in midden; possible assoc. artifacts were debitage and Mockley and/or Townsend sherds.	Low	SI-2920: Oyster shell sample from unknown area in midden; possible assoc. artifacts were debitage and Mockley and/or Townsend sherds.	75
Sample 4: 3745 +/- 75 years BP	Reliability	Sample 5: 3000 +/- 75 years BP	Reliability	Sample 6: +/- years BP	Reliability
SI-2921: Oyster shell sample from unknown area in midden; possible assoc. artifacts were debitage and Mockley and/or Townsend sherds.	Low	SI-2922: Oyster shell sample from unknown area in midden; possible assoc. artifacts were debitage and Mockley and/or Townsend sherds.	Low		
Sample 7: +/- years BP	Reliability	Sample 8: +/- years BP	Reliability	Sample 9: +/- years BP	Reliability

Additional radiocarbon results available



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Brief

Description:

Early, Middle, and Late Woodland shell midden with lithics & ceramics

Unknown

## External Samples/Data:

Collection curated at

Additional raw data may be available online

## Summary Description:

The KCARP AN-11 Site (18KE44) is a Late Archaic to Late Woodland period short-term resource procurement camp and oyster shell midden. It is located near Worton Point in Kent County. A portion of the site is wooded and the remainder is in an open agricultural field. Soils in the site area are Mattapex-Matapeake-Butlertown silt loams, 0-2% slope. The irregularly-shaped site measures approximately 457 x 305 meters.

The site was first recorded during the Kent County Archaeological Research Project (KCARP) which involved a systematic regional surface survey, artifact collection, and analysis along the western shore of Kent County. The overall aim of the study was to assess the development of the interrelated changes in the prehistoric environment and resource utilization during the past 7,000-8,000 years along portions of the eastern shore of the Chesapeake Bay. Of particular interest was the nature and processes involved in the development of the oyster base subsistence system. Specific goals of the survey were to identify previously unidentified cultural resources within the study area and ultimately to determine if any of those resources were eligible for listing on the National Register of Historic Places. Funding was in part provided by the Maryland Historical Trust and three seasons of work were conducted in 1972/73, 1974, and 1976. The study area consisted of 191 km<sup>2</sup> of western Kent County, including 93 km of shoreline. It was bounded on the north by the Sassafras River, on the east by the Morgan and Woodland Creeks, on the south by a divide separating the Chesapeake Bay and the Chester River, and on the west by the Chesapeake Bay. The study period ranged from the establishment of the Bay (and the drowning of the ancestral Susquehanna River) to the contact period (ca. AD 1600).

The project began in 1972 with archival and environmental research. Fieldwork was conducted in late 1972 and 1973. The archeological investigations included pedestrian survey of several land tracts and controlled surface collection. Artifact clusters were collected in units of 30 m square grid systems. Approximately 7 m distance was maintained between fieldwalkers. A site or artifact cluster was defined as any 30 m<sup>2</sup> collection unit or group of contiguous units in which each contained a minimum of 40 artifacts. All artifacts were retained during the surface collection except for fire-cracked rock, oyster shells, and unmodified raw material (rocks and pebbles). Limited excavation of shovel tests pits was also done. Additionally, shell samples were collected from cliff exposures of 23 coastal archeological sites and 5 marshes for radiocarbon dating, and from a former sub-estuary for dating and pollen analysis. Archeological investigations were renewed in 1974 and again in 1976. The field seasons consisted of a continuation of the systematic surface survey, and artifact collection and analysis, with the addition of test unit excavations at a few sites. During the test unit excavations, column soil samples were acquired for future microanalysis. Test units were excavated in arbitrary 20 cm levels. An additional 61 radiocarbon samples were collected from 29 different shell sites during the 1974 and 1976 investigations. Results of the C14 dating led the excavators to conclude that oyster resources (*ostrea virginica*) were being exploited as early as 5,700 years ago in the Chesapeake region (roughly the Middle Archaic period).

A total of 87 land tracts were investigated during the three years of survey. The entire shoreline of Kent County was examined on foot and the shorelines of local rivers were examined from a shallow draft boat. The results of the 1970s surveys were provided in several volumes that consisted of computer printouts of individual clusters of artifacts/sites. Only two categories of stone artifacts were recognized, "worns" (tools) and "unworns" (debitage). Standard tool categories and cultural-historical types were not used. No catalogue forms that summarized the available data were provided.

A re-analysis of the prehistoric artifacts recovered during the 1970s surveys and excavations was carried out in 1983 by archeologists from the University of Delaware and funded by a National Park Service Survey and Planning grant from the Maryland Historical Trust. The aim of that re-analysis was to increase the research utility of the collection, which was then on deposit with the Division of Archeology, Maryland Geological Survey. The re-analysis provided more comprehensive descriptions of excavated materials, catalogues of surface collected materials, and in a few cases, listings of types of special interest. Artifacts were recorded as flakes, flake tools, staged bifaces, Late Archaic/Woodland I points (from after ca. 5000 BC-AD 1000), Woodland II points (ca. AD 1000-1600), other points, cores, indeterminate objects, groundstone artifacts and ceramics. Points were not designated to any particular cultural type but to one of the time periods or 'other points' categories as noted above. The re-analysis provided the most updated and more comprehensive data of the entire survey assemblage. It is that data that is given in the table above. No total counts for any of the faunal or floral material or for the ceramic sherds that were recovered from the test unit excavations were provided except in a few rare cases. Therefore, the totals for those objects in the table above should be considered minimum estimates.

Artifacts were surface collected from site 18KE44 during the 1974 survey, at which time it was designated KCARP AN-11. Four 1 m x 2 m test units were also excavated at that time. An additional 10 test units and a test trench were excavated at site 18KE44 in 1976. A total of 1,666 artifacts were collected from the surface. There were 1,603 pieces of debitage (707 quartz, 24 quartzite, 589 chert, 59 jasper, 21 rhyolite, 116 argillite, 3 sidarite, 84 other materials) and 36 cores (15 quartz, 1 quartzite, 17 chert, 2 jasper, 1 other). Nine flake tools (6 chert and 3 jasper) and 7 staged bifaces (3 quartz, 1 quartzite, 1 chert, 1 jasper, 1 argillite) were also recovered. In all, 4 Late Archaic/Woodland I points, 2 Woodland II points, and 5 unidentified 'other points' were retrieved.

A further 228 artifacts were recovered from the test unit and test trench excavations. There were 65 pieces of debitage (12 quartz, 37 chert, 7 jasper, 1 argillite, 3 chalcedony, 5 unidentified materials). Unmodified faunal material (n=141) consisted of 70 animal bone fragments, 2 fish bone fragments, 2 turtle shell pieces, 8 shell fragments, 1 barnacle, and 58 snail shells. Floral material (n=15) included 1 large piece of charcoal that was identified as white oak and 14 other small charcoal pieces (2 pieces found in a vial/glass container) identified to various species including elm, sweet gum, hickory and hickory nut, chestnut, red oak, white oak, locust, black locust, walnut, beech, and pokeweed. The highest representation was among the hickory and oak, with the lowest in beech and gum. There were 7 ceramic sherds (3 shell-tempered and cord-impressed either Mockley or Townsend types (recorded as Mockley in the table above), 2 Townsend sherds found in a vial/glass container, and 2 Mockley sherds).

Five shell samples were collected from 18KE12 for radiocarbon dating. The location of the samples and any associated artifacts was not made explicit in the original reports. The date ranges (from ca. BC 2350-733 calibrated to 2-sigma using intcal09) fall within the Late Archaic and Early Woodland periods. Some of the identified ceramics and point types at site 18KE44 fit within these dates. However, the general validity of the samples was questioned during the 1983 re-analysis. When diagnostics were identified with a shell midden, they appeared to be in the surface collection from around the midden and not in the midden itself, as is the case with the points recovered from the site. When diagnostic artifacts were present within the middens, the diagnostics did not fit with the radiocarbon date. The Townsend ceramics and some of the points did not fall in the date range provided by the radiocarbon results but rather to the later part of the Woodland period (ca. AD 1000-1600).

The KCARP AN-11 Site (18KE44) is a Late Archaic to Late Woodland period short-term resource procurement camp and oyster shell midden. All of the

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Description:**

Early, Middle, and Late Woodland shell midden with lithics & ceramics

Unknown

information regarding the site was provided in tabular data form. No interpretation, discussion, or conclusions were available in any of the associated reports.

## External Reference Codes (Library ID Numbers):

00005907, 00005909, 00005910, 00005911, 00005936, 00006808, Site Files