



# Phase II and Phase III Archaeological Database and Inventory

Site Number: 18DO461

Site Name: Linthicum 1

Prehistoric

Other name(s)

Historic

Unknown

Brief Description:

Possibly Paleoindian lithic scatter; Late-18th/Early-19th through 20th century artifact scatter

## Site Location and Environmental Data:

Latitude 38.4421 Longitude -76.1340

Elevation m Site slope 2-5%

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

Maryland Archaeological Research Unit No. 3

SCS soil & sediment code MtB

Physiographic province Eastern Shore Coastal P

Terrestrial site

Underwater site

Ethnobotany profile available  Maritime site

## Nearest Surface Water

Name (if any) Unnamed tributary of Huds

### Saltwater

Ocean

Estuary/tidal river

Tidewater/marsh

Minimum distance to water is 64 m

### Freshwater

Stream/river

Swamp

Lake or pond

Spring

## Temporal & Ethnic Contextual Data:

Paleoindian site P

Woodland site

Contact period site ca. 1820 - 1860 Y

ca. 1630 - 1675

ca. 1860 - 1900 Y

Archaic site

MD Adena

ca. 1675 - 1720

ca. 1900 - 1930 Y

Early archaic

Early woodland

ca. 1720 - 1780

Post 1930 Y

Middle archaic

Mid. woodland

ca. 1780 - 1820 Y

Late archaic

Late woodland

Unknown historic context

Unknown prehistoric context

Unknown context

## Ethnic Associations (historic only)

Native American

Asian American

African American

Unknown

Anglo-American Y

Other

Hispanic

Y=Confirmed, P=Possible

## Site Function Contextual Data:

### Prehistoric

Multi-component

Misc. ceremonial

Village

Rock art

Hamlet

Shell midden

Base camp

STU/lithic scatter

Rockshelter/cave

Quarry/extraction

Earthen mound

Fish weir

Cairn

Production area

Burial area

Unknown

Other context

### Historic

Urban/Rural? 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

Geomorphology: Dr Daniel Wagner

### Historic context samples

Soil samples taken N

Flotation samples taken N

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	<input type="checkbox"/>
Le Croy	<input type="checkbox"/>	Calvert	<input type="checkbox"/>
Morrow Mntn	<input type="checkbox"/>	Selby Bay	<input type="checkbox"/>
Guilford	<input type="checkbox"/>	Jacks Rf (notch)	<input type="checkbox"/>
Brewerton	<input type="checkbox"/>	Jacks Rf (pent)	<input type="checkbox"/>
Otter Creek	<input type="checkbox"/>	Madison/Potomac	<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"/>	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	<input type="checkbox"/>		
				Potomac Crk	<input type="checkbox"/>		

### Historic Sherd Types

<b>Earthenware</b>		Ironstone	<input type="checkbox"/>	Staffordshire	<input type="checkbox"/>	<b>Stoneware</b>	
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			
Flaked stone	<input type="checkbox"/>	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	<input type="checkbox"/>	Unmod faunal	<input type="checkbox"/>
Other lithics (all)	<input type="checkbox"/>	Oyster shell	<input type="checkbox"/>
Ceramics (all)	<input type="checkbox"/>	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 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 type="checkbox"/>	Ironstone	<input type="checkbox"/>	Basalt	<input type="checkbox"/>
Quartz	<input type="checkbox"/>	Argilite	<input type="checkbox"/>	Unknown	<input type="checkbox"/>
Quartzite	<input type="checkbox"/>	Steatite	<input type="checkbox"/>	Other	<input type="checkbox"/>
		Sandstone	<input type="checkbox"/>		

Dated features present at site

Historic Artifacts			
Pottery (all)	<input type="checkbox"/>	Tobacco related	<input type="checkbox"/>
Glass (all)	<input type="checkbox"/>	Activity item(s)	<input type="checkbox"/>
Architectural	<input type="checkbox"/>	Human remain(s)	<input type="checkbox"/>
Furniture	<input type="checkbox"/>	Faunal material	<input checked="" 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 checked="" 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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Brief

Description:

Possibly Paleoindian lithic scatter; Late-18th/Early-19th through 20th century artifact scatter

Unknown

## External Samples/Data:

Collection curated at MAC

Additional raw data may be available online

## Summary Description:

Linthicum Site 1, 18DO461, is a prehistoric lithic scatter with a possible PaleoIndian component in the Blackwater National Wildlife Refuge in Dorchester County. The site is situated in a level, grassy area on the edge of an agricultural field. An abandoned farmhouse is situated nearby. The surrounding landscape is very flat, very featureless terrain in an interfluvium between tidal portions of Buttons Creek and Hudson Creek. Soils at the site are primarily Mattapex and Othello silt loams.

The site was first identified during a 2006 Phase I survey of an 18 acre portion of the Blackwater National Wildlife Refuge. At the time, the US Fish and Wildlife Service intended to exchange the parcel on which the site is situated with lands owned by the Maryland Department of Natural Resources (MDNR). The MDNR was, at the time, proposing to construct the Harriet Tubman Visitors Center and other associated infrastructure within the 18 acre Area of Potential Effects (APE). These undertakings involved significant public monies and, thus, were subject to state and federal regulations related to cultural resources.

The Phase I survey included a visual examination of the APE, a geomorphological investigation, and the excavation of shovel test pits (STPs). The geomorphological analysis was conducted to determine the potential depth for culture-bearing deposits and provide information on landscape formation. A grid was laid out across the APE and shovel test pits were excavated on a 14 m staggered grid across the entire APE. STPs containing prehistoric artifacts and concentrations of historic artifacts were bracketed at 4 meter intervals with additional STPs to further delineate the extent of archeological resources. The STPs measured approximately 50 cm square. STPs were excavated by natural stratigraphy and soils were screened through hardware cloth. Soils and artifact data were recorded on standardized forms and general overview photos were taken to facilitate documentation. Small unmarked brick fragments and 20th century artifacts were noted on STP forms, but were discarded in the field.

A total of 323 STPs were excavated across the APE. A total of 8 STPs were excavated at 18DO461 during Phase I work. One of the initial (15 m interval) STPs produced a thermally-altered jasper flake and bracketing STPs produced an additional jasper flake. An historic iron utility pipe was encountered at approximately 63 cm below the ground surface in another STP. Both of the prehistoric artifacts were deeply buried with one recovered at a depth of 75 cm and another at approximately 70 cm. Both of these artifacts were recovered below a loess sediment deposit which the geomorphological study interpreted as being from the Younger Dryas (ca. 12900-11500 year before present). While the objects themselves are non-diagnostic, their deep stratigraphic position would suggest that they date to the PaleoIndian period. Based on the context of the artifacts and rarity of intact buried PaleoIndian archeological resources, a 10 X 4 m area encompassing the positive STPs was designated 18DO461 and Phase II testing was recommended.

Phase II work was carried out immediately, in December of 2006. It consisted of a program of subsurface testing and additional geomorphological investigation. The subsurface testing consisted of the excavation of 26 STPs and six 1 X 1 m test squares.

Phase II STPs were excavated at 4 m intervals for a distance of 20 m out from the original positive STPs. Each STP was placed using the existing grid system. Phase II STPs located within approximately 1 meter of a Phase I STP were not excavated. Shovel test pits were also offset to avoid natural and artificial obstructions (i.e. roads, trees, poles). Judgmental Phase II STPs were also placed within the vicinity of the Linthicum 1 site. All Phase II STPs measured 50 cm square, and were excavated to a depth of 1 m below the ground surface. Otherwise the Phase I STP methods were used. A total of 26 STPs were excavated during the Phase II testing.

Excavation units were excavated by hand, utilizing natural and arbitrary levels. Arbitrary levels measured 10 cm thick. Excavation units were terminated at 1 m below the ground surface, and their profiles were documented by line drawings and photography. Any identified features were sectioned or bisected along their long axis in order to expose the profiles. Plan and profile views were drawn and photographed. Feature fill soils were excavated in natural and/or arbitrary levels and screened through hardware cloth. All prehistoric artifacts were retained in the field. Coal, coal ash, and artifacts less than 50 years old were documented in the field notes, but discarded in the field.

The Phase II testing resulted in the identification of one additional piece of debitage from a plowzone context (in a test unit). Based on the depth of the debitage, two prehistoric components were posited. The plowzone component dated anywhere from the Early Archaic to the Contact period, while the deeply buried component (below the loess deposit) dates from the early portion of the Paleo-Indian (Clovis) period. The horizontal boundaries of the Linthicum 1 site, as defined by the three pieces of debitage, encompasses approximately 40 square meters (0.01 acres). The vertical site boundaries extend below the plowzone to a maximum depth of one meter below the ground surface.

A total of 99 historic artifacts and one historic post were found in the plowzone within the horizontal boundaries of 18DO461. Additional historic artifacts were found beyond the boundaries of the Linthicum 1 site during Phase II testing. These historic artifacts were found in low numbers and are not considered potentially significant.

The two prehistoric components of the Linthicum 1 site were characterized as short-term activity areas related to lithic reduction. While the discovery that one of these activity areas may be an intact archeological resource associated with the earliest period of prehistoric occupation (the PaleoIndian period) is uncommon in Maryland, extensive testing within the relatively small site area failed to reveal any further cultural materials associated with this component. The lack of artifacts, diagnostic items, features, or other activity areas beyond the two flakes originally recovered from the site (and a third flake recovered from plowzone during Phase II work), substantially limits the site's ability to yield information and data to address important research issues.

## External Reference Codes (Library ID Numbers):

97003106