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National Register of Historic Places Eligibility Testing of Site 41SM385 Within TxDOT's Tyler District, Smith County, Texas

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National Register of Historic Places Eligibility Testing of Site 41SM385 Within TxDOT's Tyler District, Smith County, Texas

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***National Register of Historic Places
Eligibility Testing of Site 41SM385
Within TxDOT's Tyler District
Smith County, Texas
Texas Antiquities Permit No. 5190
CSJ 3487-01-004, LP 49 West, Section 3A***

Document No. 110016

PBS&J Job No. 0480013

**NATIONAL REGISTER OF HISTORIC PLACES
ELIGIBILITY TESTING OF SITE 41SM385
WITHIN TXDOT'S TYLER DISTRICT
SMITH COUNTY, TEXAS**

**TEXAS ANTIQUITIES PERMIT NO. 5190
CSJ 3487-01-004, LP 49 WEST, SECTION 3A**

Prepared for:

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May 2011

Abstract

PBS&J, an Atkins company, was contracted by the North East Texas Regional Mobility Authority to conduct National Register of Historic Places eligibility testing of site 41SM385, a prehistoric campsite on a small rise above the floodplain of Indian Creek in western Smith County, Texas. Testing investigations were conducted during March and September 2009. The site was subjected to a systematic program of shovel testing, mechanical trenching, and hand excavation in an effort to identify cultural features or living surfaces and optimize recovery of diagnostic faunal, floral, and artifactual remains.

The recovered cultural artifacts indicate that site 41SM385 represents a probable Woodland and Caddo-aged occupation on a small rise on the creek floodplain. The Woodland component is based on recovered small Gary and Kent projectile points characteristic of Woodland culture of the region. The Caddo component is based on ceramic sherds of probable Early or Middle Caddo origin identified at the site. Radiocarbon dating of four ceramic sherds supports these assessments with three sherds dating to the Early to Middle Caddo periods and one sherd dating to the Woodland period. The lack of identified cultural features suggests that the Woodland component probably represents a series of ephemeral usages of the location, probably as short-term campsites. The Caddo-aged artifacts at the site probably represent a series of ephemeral usage of the location, either as a resource procurement locus ancillary to nearby site 41SM404 or as a short-term campsite.

The testing program failed to locate living surfaces or cultural features containing in situ artifactual or organic remains preserved on the site. The absence of cultural features and the paucity of lithic tools or ceramic remains make more-meaningful functional interpretation infeasible. For this reason, the site lacks the data resources that would warrant National Register of Historic Places listing or designation as a State Archeological Landmark. No further work is recommended.

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I. INTRODUCTION

PBS&J, an Atkins company, was contracted by the North East Texas Regional Mobility Authority (NET RMA) to undertake archeological investigations for proposed Toll 49, Segment 3A, between State Highway (SH) 31 on the north, at about 6 miles (9.7 kilometers) west of Loop 323, and SH 155 on the south, at about 5.25 miles (8.5 kilometers) southwest of Loop 323 in Smith County, Texas. The project involves the construction of two lanes of an ultimate four-lane facility and includes the construction of a two-lane, rural typical section (two 12-foot [3.6 meters (m)] lanes and 10-foot [3.0 m] shoulders on each side). From north to south, bridge work will include the construction of bridges at SH 31, County Road (CR) 1134/waterway structure (Indian Creek)/UPRR, waterway structure at station 725+00, CR 1227, CR 1130, Butler Creek, CR 1113/waterway structure, waterway structure at station 850+50, CR 196, and SH 155.

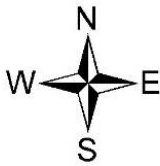
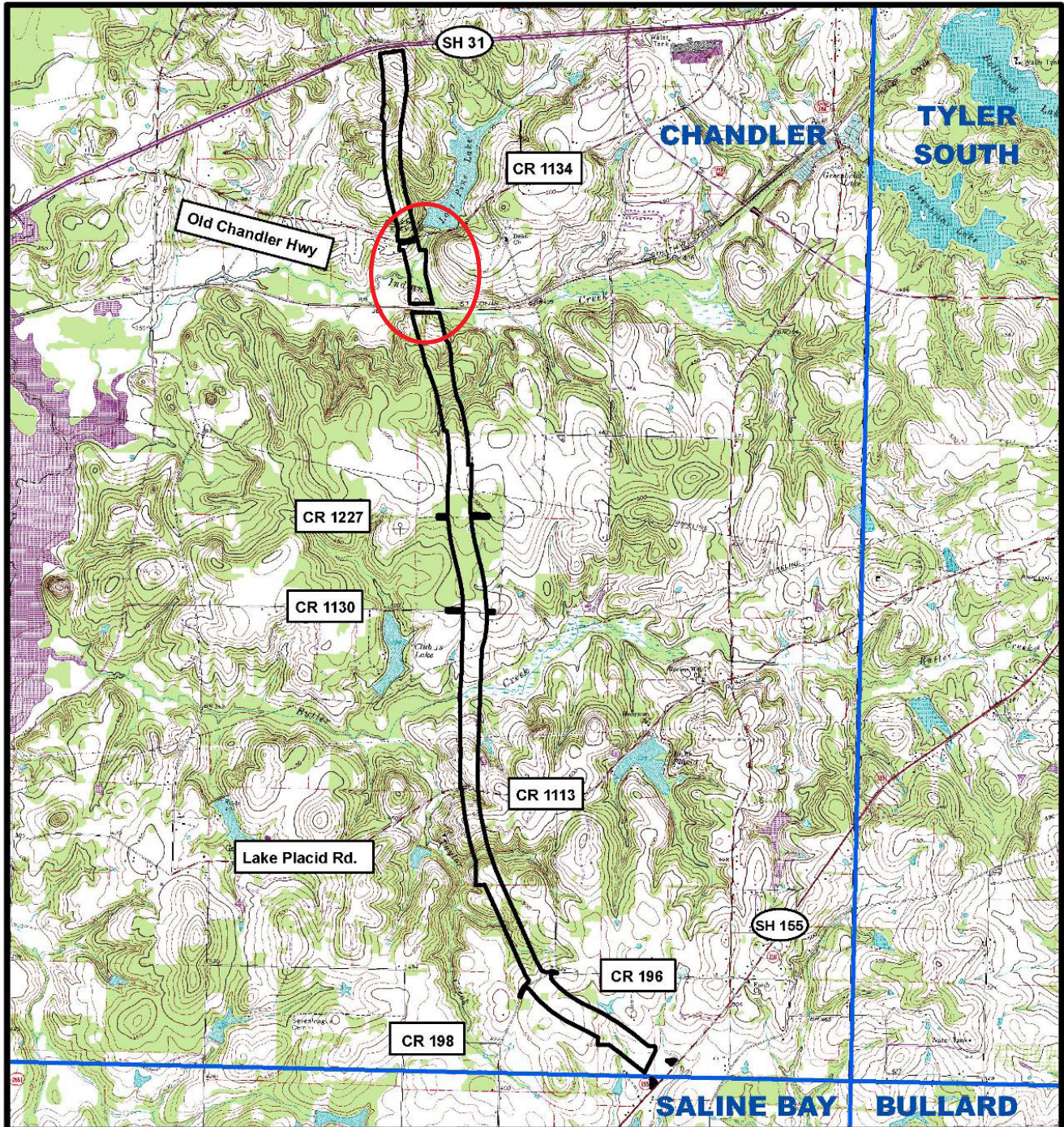
At the request of the NET RMA, PBS&J conducted National Register of Historic Places (NRHP) eligibility testing of prehistoric site 41SM385 during March and September 2009. The site is situated within the floodplain of Indian Creek, in western Smith County (Figure 1).




The site is located completely within the right of way (ROW) of the proposed highway bypass project near its eastern edge. However, the entire site has been fenced off and removed from the project's area of potential effect so no effect of the project to the site is anticipated.

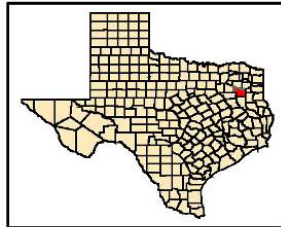
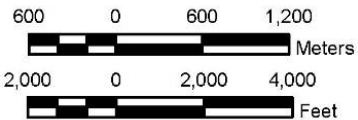
In order to determine the NRHP eligibility of site 41SM385, the site was subjected to a systematic program of shovel testing, mechanical trenching, and hand excavation in an effort to optimize recovery of artifacts, faunal and macrofloral remains, and cultural features. This work demonstrated that living surfaces containing in situ artifactual remains, faunal and macrofloral remains, and cultural features have not been preserved on the site. For this reason, the site lacks the data resources that would warrant NRHP inclusion. No further work is recommended.

These investigations were performed in compliance with the Texas Antiquities Code of 1977, as revised through 1995 (Texas Natural Resources Code: Title 9, Chapter 191), and the National Historic Preservation Act of 1966, as amended through 1992 (PL 89-665 through PL 102-575; 80 Stat. 915; 16 USC §470 et seq.). Finally, the work was conducted in accordance with the guidelines set forth by the Council of Texas Archeologists (1995), under the supervision of the Texas Department of Transportation (TxDOT).

Approximately 65 person-days of labor were expended during the fieldwork. The project was conducted under the direction of Principal Investigator Maynard Cliff and the direct supervision of Project Archeologist Michael Nash. The field crew included Randy Norris, Lynne O'Kelly, Julie Shipp, Tina Golgoun, Sara Laurence, Philip Washington, Ryan Schuermann, Meghan Egan, Rae Weir, Erin Watkins, and Karen Belvin.



-  APE
-  USGS Topo Boundary
-  Project Area



- Engineering
- Environmental Consulting
- Surveying

Figure 1

Project Area

TOLL 49 SEGMENT 3A
FROM SH 31 TO SH 155

BASE MAP: USGS 7.5' TOPOGRAPHIC MAP, BULLARD, CHANDLER, SALINE BAY & TYLER SOUTH, TEXAS

File: I:\projects\he1\clients\net ram\testing at 41sm385\cad\figure1.pdf

This report is divided into six sections. Following this introduction, sections II and III discuss the general environmental setting and the cultural background of site 41SM385. Section IV presents the research design and methods for the fieldwork, and Section V presents results of the investigation. Section VI provides a summary of the cultural resource management recommendations. A list of references cited follows the text. A specimen inventory of collected material is presented in Appendix A, and tabular data on lithic artifacts are presented in Appendix B. Appendix C presents the radiocarbon dating analysis, and Appendix D contains a map showing the location of site 41SM385; for the purpose of confidentiality, this map had been removed from copies of the report intended for public distribution.

II. NATURAL ENVIRONMENT

TOPOGRAPHY

Site 41SM385 is located on a small low rise at the eastern edge of the floodplain of Indian Creek. The site is approximately 100 m (330 ft) north-northeast of the present creek channel at its closest point. It is at an approximate elevation of 364 ft above sea level. The site is typically inundated by seasonal flooding of the creek most years. A small seasonal slough of the creek lies immediately south-southwest of the site. Site 41SM385 is vegetated with a variety of short to tall grasses with scattered thistles and nettles. Mixed pine-hardwood timber is located across a fence east of the site, and scattered mature hardwoods are located around the site, including a very large elm tree at the site's northwestern edge. Modern disturbances to the site include the clearing of most of the timber vegetation that covered the site followed by grass cultivation.

PHYSIOGRAPHY AND GEOLOGY

Site 41SM385 is physiographically in a transitional area between the Pineywoods and the Post Oak Savannah natural regions of Texas. Geologically, the site is situated within a belt of geologically recent alluvium along Indian Creek. Immediately outside of this recent alluvium, the area is mapped as the Eocene-aged Sparta Sand, with limited outcrops of the stratigraphically lower Weches Formation and a belt of recent alluvium along Indian Creek (Bureau of Economic Geology [BEG] 1965). The Sparta Sand consists of fine- to medium-grained, light gray to brownish gray, quartz sand with interbeds of sandy clay and hard ferruginous sandstone at the base (BEG 1965). The Weches Formation consists of a grayish green to grayish olive-green, thin-bedded glauconite and quartz sand with clay interbeds (BEG 1965).

SOIL

The surface soil in this area is mapped as Mantachie loam, frequently flooded. Mantachie soils have recently been reclassified as Inceptisols (Soil Survey Staff 2004). Specifically they are Fluventic Endoaquepts, which are very deep, somewhat poorly drained loamy soils formed in loamy alluvial sediments of Holocene age. They are frequently flooded between November and May, are strongly acidic, poorly drained, and have a water table usually within 18 inches (46 centimeters [cm]) of the surface during winter months (U.S. Department of Agriculture, Soil Conservation Service [USDA, SCS] 1993:33–35). These characteristics are not conducive to the preservation of cultural features and/or subsistence remains at prehistoric sites.

CLIMATE

The climate of Smith County is humid and subtropical with long hot summers, cool fairly short winters, and fairly heavy precipitation throughout the year (USDA, SCS 1993). During the spring, summer, and fall seasons, air masses off the Gulf of Mexico dominate, while during the winter, the

climate is significantly affected by cold arctic air masses. Monthly temperatures for Smith County, recorded in Tyler for the period from 1954 to 1981, range from an average of 7.7 degrees Celsius (°C) (46 degrees Fahrenheit [°F]) during the winter, to an average of 26.6°C (80°F) during the summer, with a typical growing season of about 228 days (USDA, SCS 1993:110–111).

The average annual precipitation of Smith County is about 44 inches (112 cm), about half of which usually falls between April and September. July and August are the two driest months of the year. The average rainfall during these two months drops to 2.64 inches (6.7 cm), while April has the highest average rainfall, 5.04 inches (12.8 cm). Thunderstorms are most common in the spring, occurring on about 44 days of each year. Snowfall averages about 2 inches (5.0 cm) a year (USDA, SCS 1993:110–111).

FLORA

The site is located within a transitional area between the Piney Woods and Post Oak Savannah ecoregions (Texas Parks and Wildlife Department [TPWD] 2004). The vegetation, as indicated by TPWD's *Vegetation Types of Texas* (TPWD 1984), consists largely of Pine-Hardwood Forest and pasture consisting of Other Native and/or Introduced Grasses in the uplands and upper floodplains, and Willow-Water Oak-Blackgum Forest in the lower floodplains (McMahan et al. 1984), most of which has been cleared in proximity to site 41SM385. The Pine-Hardwood Forest in Smith County is classified as Subtype 2: Shortleaf Pine-Post Oak-Southern Red Oak Forest (McMahan et al. 1984). Commonly associated plants include loblolly pine (*Pinus taeda*), black hickory (*Carya texana*), sandjack oak (*Quercus incana*), flowering dogwood (*Cornus florida*), common persimmon (*Diospyros virginiana*), sweetgum (*Liquidambar styraciflua*), sassafras (*Sassafras albidum*), greenbriar (*Smilax* spp.), yaupon (*Ilex vomitoria*), wax myrtle (*Myrica* spp.), American beautyberry (*Callicarpa americana*), hawthorn (*Crataegus* spp.), supplejack (*Berchemia scandens*), winged elm (*Ulmus alata*), beaked panicum (*Panicum anceps*), spranglegrass (*Leptochloa* spp.), indiagrass (*Sorghastrum nutans*), switchgrass (*Panicum virgatum*), three-awn (*Aristida* spp.), bushclover (*Cuscuta* spp.), and tickclover (*Desmodium* spp.) (McMahan et al. 1984:25).

The Willow-Water Oak-Blackgum Forest commonly includes beech (*Fagus grandifolia*), overcup oak (*Quercus lyrata*), chestnut oak (*Quercus muehlenbergii*), cherrybark oak (*Quercus pagoda*), elm (*Ulmus* sp.), sweetgum, sycamore (*Plantanus occidentalis*), southern magnolia (*Magnolia grandiflora*), white oak (*Quercus alba*), black willow (*Salix nigra*), bald cypress (*Taxodium distichum*), swamp laurel oak (*Quercus laurifolia*), hawthorn, bush palmetto (*Sabal minor*), common elderberry (*Sambucus canadensis*), southern arrowwood (*Viburnum dentatum*), poison oak (*Toxicodendron pubescens*), supplejack, trumpet creeper (*Campsis radicans*), crossvine (*Bignonia capreolata*), greenbriar, blackberry (*Rubus fruticosus*), rhomboid copperleaf (*Acalypha rhomboidea*), and St. Andrew's Cross (*Ascyrum hypericoides*).

FAUNA

The site is located within the Austroriparian biotic province, as defined by Blair (1950), and is bordered on the west by the Texan biotic province. Davis and Schmidly (1994) divide Texas into four faunal regions based on the ecological distribution of mammals within the state. Smith County falls within the East Texas region. This region includes the Pineywoods, the Central Texas Woodlands, the Blackland Prairies, and the Coastal Prairies and Marshes.

Animal species that may have been important for food, shelter, and clothing to prehistoric and early historic inhabitants of this area include bison (*Bos bison*), rabbit (*Sylvilagus* spp.), fox squirrel (*Sciurus niger*), raccoon (*Procyon lotor*), Virginia opossum (*Didelphis virginiana*), white-tailed deer (*Odocoileus virginianus*), beaver (*Castor canadensis*), black bear (*Ursus americanus*), and diverse rodent fauna (Davis and Schmidly 1994). Important birds that occur in the area include turkey (*Meleagris gallopavo*), quail (*Colinus virginianus*), and the prairie chicken (*Tympanuchus cupido*) (Skokan et al. 1997). In addition to birds and mammals, fish, such as gar (*Lepisosteus* sp.), bowfin (*Amia calva*), pickerel (*Esox* sp.), catfish (Ictaluridae) and bass (Centrarchidae), and reptiles and amphibians, including turtles (Testudinata), particularly the snapping turtle (*Chelydra serpentina*), lizards (Iguanidae), snakes (Colubridae), and frogs (Ranidae), were also exploited (Perttula and Bruseth 1983; Swanton 1942).

III. CULTURAL BACKGROUND

CULTURAL HISTORY

Site 41SM385 lies within the Northeast Texas Archeological Region, as defined by the Texas Historical Commission (THC) (Kenmotsu and Perttula 1993). The general cultural history of this area, based on previous research, can be divided into five primary chronological and developmental periods — Paleoindian, Archaic, Woodland, Caddo, and Historic (Table 1). These divisions are believed to reflect changes in subsistence and cultural development as reflected by material remains and settlement patterns. The following discussion of these periods draws on previous summaries by Perttula (1988, 1995), Story (1981, 1985, 1990), and Thurmond (1985, 1988, 1990). Because site 41SM385 is associated with the Woodland and Caddo periods, only these are discussed in this section.

Table 1
Cultural Sequence for Northeast Texas
(after Perttula and Kenmotsu 1993; Story 1990)

Period	Approximate Dates
Paleoindian	9500–7000 B.C.
Archaic	7000–200 B.C.
Woodland	200 B.C.–A.D. 800
Caddo	
Formative	A.D. 800–1000
Early	A.D. 1000–1200
Middle	A.D. 1200–1400
Late	A.D. 1400–1680
Historic	post–A.D. 1680

Woodland Period (200 B.C.–A.D. 800)

Three cultural expressions have been proposed to characterize the Woodland period in east Texas — Fourche Maline, centering on the Great Bend of the Red River in Arkansas and extending into adjacent Oklahoma, Louisiana, and northeast Texas to include the Lower and Middle Sulphur River basin; Mossy Grove, centered in southeast Texas and extending up the Angelina-Neches and Trinity River basins; and, most recently, Mill Creek, centering on the Upper Sabine River basin (Black and Story 2003).

Fourche Maline sites in northeast Texas are generally characterized by coarse plainware ceramics, tempered with either clay/grog or bone, known as Williams Plain; Gary dart points; and,

subsequently, corner-notched arrow points (Perttula 1995:335; Thurmond 1990). Despite similarities to Fourche Maline in Arkansas, Woodland period burial mounds do not appear to be present in northeast Texas.

The Mossy Grove tradition is characterized by sandy paste ceramics (cf. Bear Creek Plain and Goose Creek Plain) that are common on Woodland period sites from the Sabine River south to the Gulf Coast (Story 1981:146). Characteristic projectile points include small Gary and Kent dart points and, after A.D. 500–600, expanding-stem arrow points such as Friley and Scallorn (Black and Story 2003). The few burial mounds that are known from east Texas occur in the Sabine and Neches River basins around the Toledo Bend Reservoir and Lake Sam Rayburn areas, respectively, and are probably related to Mossy Grove (see Story 1990:Figure 42).

The Mill Creek culture has been identified west and south of the Red and Sulphur River basins, and specifically, in the upper Sabine River basin (Black and Story 2003). Mill Creek sites appear to be smaller than the Arkansas Fourche Maline sites and contain less pottery. The pottery that is present is thinner than typical Williams Plain and is more often decorated with incised lines, punctations, and other techniques. Mill Creek sites lack burial mounds, and the lithic assemblages are characterized by small Gary and Kent dart points that are replaced by expanding-stem arrow points after about A.D. 600–700 (Black and Story 2003). The best-known Mill Creek site is the Herman Ballew site (41RK222), excavated by PBS&J archeologists in 1993–1994 (Rogers et al. 2001).

In addition to local ceramics, Lower Mississippi Valley ceramic types, such as Tchefuncte Stamped, Churupa Incised, Marksville Incised, Troyville Stamped, and Marksville Stamped, have been recovered from Woodland period contexts at a number of sites, especially in the Sabine River basin (Perttula 1995:335–336; Story 1990:246). This, together with the occurrence of burial mounds in this same general area, suggests a long tradition of contact between east Texas and the Lower Mississippi Valley, by way of central Louisiana.

By the end of the Woodland period, Coles Creek ceramics are present in the Sabine River drainage, along with expanding-stem arrow points similar to the Colbert and Friley types (Perttula 1995:336). Coles Creek ceramics and expanding-stem arrow points have been dated to between about 1,000 and 1,300 years ago at the James Pace site (16DS268) at Toledo Bend Reservoir in DeSoto Parish, Louisiana (Girard 1994; Perttula 1995:336). Material of equivalent age from Lake Fork Reservoir, in the Upper Sabine River basin, consists of “ceramic assemblages dominated by horizontally incised decorative motifs, and Friley arrow points” (Perttula 1995:336; see also Bruseth and Perttula 1981).

Woodland components have also been identified at the Resch site (41HS16) in southern Harrison County (Webb et al. 1969), the Folley site (41RK26) in northeastern Rusk County (Jarvis 1972), and the Yarborough site (41VN6) in Van Zandt County (Bruseth and Perttula 1981; Johnson 1962; Perttula and Skiles 1988). Generally, these sites can be dated to the Woodland period on the basis

of the presence of Lower Mississippi Valley ceramics such as the Tchefuncte, Marksville, and Coles Creek types.

Caddo Period (A.D. 800–1680)

The Caddo period in east Texas in general has been subdivided into Formative (A.D. 800–1000), Early (A.D. 1000–1200), Middle (A.D. 1200–1400), and Late (A.D. 1400–1680) subperiods. The chronology used here is based on the work of Perttula (1995) and Thurmond (1990) in the Sabine River and Cypress Creek basins, north of site 41SM385's location. Both the Formative and Early Caddo periods include components related to the more traditional Alto and Sanders foci in eastern Texas. The ceramic types characteristic of the Formative Caddo are Holly Fine Engraved, Hickory Fine Engraved, Spiro Engraved, Kiam Incised, Weches Fingernail Impressed, and Coles Creek Incised, with Williams Plain also being present (Thurmond 1990). Ceramic types characteristic of the Early Caddo period include Sanders Engraved, Hickory Fine Engraved, Sanders Plain, and Canton Incised, with Williams Plain making up a smaller part of the assemblage than previously (Thurmond 1990:226–227).

Arrow points for the Formative to Early Caddo periods include Alba, Bonham, Catahoula, and Scallorn types (Thurmond 1990:226–227). The Formative Caddo period is suggested to be the earliest true Caddo cultural configuration (Story 1972). The George C. Davis site (41CE19) on the Neches River is probably the most important site for this period. Small Formative Caddo sites are generally located on terraces adjacent to water resources. Major Formative Caddo mound centers are located in major river valleys such as the South Sulphur River.

Sites of the Early Caddo period are more widespread and are typically found on terraces and on knolls near water resources. Subsistence during both the Formative and Early Caddo periods was probably based primarily on the hunting of deer and small mammals, supplemented by horticulture. Maize has been recovered from Early Caddo occupations, and settlement patterns are thought to reflect a wide population dispersal into sedentary hamlets and farmsteads (Perttula et al. 1986:54–55).

Judging from radiocarbon dates, Middle Caddo period occupations are more common throughout much of northeast Texas in comparison to Formative and Early Caddo occupations. Middle Caddo period sites continue to be located on elevated landforms adjacent to major streams, as well as along minor tributaries and spring-fed drainages (Perttula 2004:378–379). Ceramic types identified for the Middle Caddo period include Ripley Engraved, Avery Engraved, Canton Incised, Maydelle Incised, Bullard Brushed, Pease Brushed-Incised, and La Rue Neck Banded (Thurmond 1990:227–228). In the Sabine River and Cypress Creek basins, the brushing of utilityware vessels became common after A.D. 1300 (Perttula 1995:338). Projectile points identified as being characteristic of the period include Bonham, Catahoula, Alba, Perdiz, and Clifton (Thurmond 1990:227–228). In the Sabine River basin, the Middle Caddo component at the Oak Hill Village site

(41RK214) is estimated to date between about A.D. 1200/1300 and 1450 (Rogers and Perttula 2004). Middle Caddo sites in Smith County include the Bryan Hardy site (41SM55), the Redwine site (41SM193), and the Langford site (41SM197) (Middlebrook and Perttula 1997; Walters 1997; Walters and Haskins 2000).

Smith County falls within what Shafer has recently termed the Northern Prairie Caddo geographic area (Shafer 2006:Figure 1). Shafer (2006) proposes a model for identifying what he calls Prairie Caddo using material culture occurring in east-central Texas from approximately A.D. 1000 to 1300. In this model, he argues that some Caddo groups, while associated with neighboring Caddo in the woodlands to the east, adapted to life in the prairies of central Texas using a distinctive technological style. His list of material remains that might be used to identify Prairie Caddo sites includes ceramics and human remains identified as Caddo, Gahagan biface knives, Bonham-Alba arrow points, bone needles, and deer metapodial beamers (Shafer 2006).

Thurmond (1990) observes that ca. A.D. 1400, the elements of Caddo material culture, manifested archeologically in ceramic and projectile point assemblages, differentiate along a line drawn roughly north to south somewhat west of Caddo Lake in Harrison County, Texas. The observed differences west to east are hypothesized by Thurmond (1990) to represent probable social groups.

The Late Caddo period appears to be notable for an increase in regional variants (see Perttula 2004:Figure 13.26). The western portion of the Cypress Creek basin and the middle Sabine basin, north of site 41SM385, were characterized by the Whelan and Titus phases. The Whelan phase (ca. A.D. 1350–1450) is the earlier of these two and is largely confined to the Cypress Creek drainage basin (Thurmond 1985:Figure 4). Ceramics from Whelan phase sites include Ripley Engraved, Taylor Engraved, Wilder Engraved, Bullard Brushed, Pease Brushed-Incised, Maydelle Incised, and La Rue Neck Banded. Perdiz and Scallorn arrow points are generally associated with the Whelan phase (Thurmond 1990:228).

The succeeding Titus phase (ca. A.D. 1450–1650) represents the final prehistoric occupation of the upper Cypress Creek basin. Perttula (1995:338) describes the Titus phase as representing “the archeological remains of a number of Caddo groups who lived between the Sabine and Sulphur rivers.” Ceramics characteristic of the Titus phase include Ripley Engraved, Taylor Engraved, Wilder Engraved, Bailey Engraved, Johns Engraved, Bullard Brushed, Harleton Appliqué, Maydelle Incised, La Rue Neck-Banded, McKinney Plain, and Killough Pinched. Arrow points are primarily Bassett, Maud, Reed, and Talco (Thurmond 1990:228–229).

Another Late Caddo grouping, identified as the Frankston phase (ca. A.D. 1400–1650), is located in the Neches and Angelina River basins in Smith, Henderson, Cherokee, and Van Zandt counties (Perttula 2004:395). Frankston phase sites include farmsteads, hamlets, and small villages. One Frankston phase mound is known, at the A.C. Saunders site (41AN19) in Anderson County (Jackson 1936; Kleinschmidt 1982). Small scattered hamlets with one to three houses have been identified in

the upper Neches River basin (Anderson et al. 1974:178–180). The ceramic inventory of the Frankston phase includes Poynor Engraved, Bullard Brushed, Maydelle Incised, and La Rue Neck-Banded. Elbow pipes and Perdiz arrow points are also present.

A third Late Caddo group, identified as the Angelina phase (ca. A.D. 1450–1650), is centered between the Angelina and Sabine rivers, in the vicinity of Lake Sam Rayburn (Perttula 2004:395). The Walter Bell site (41SB50) is an Angelina phase site that contained small midden deposits, circular structures, and a small cemetery with extended and flexed burials (Perttula and Black 2003). Artifacts at the site included Perdiz arrow points, conch shell beads, bone tools, mussel shells, and incised bird-bone flutes (Perttula and Black 2003). Ceramics associated with Angelina phase sites largely consist of Pineland Punctated-Incised and Broaddus Brushed (Jelks 1965:214; Wyckoff 1974:206).

PREVIOUS INVESTIGATIONS

Smith County attracted little interest from early archeologists until the 1930s, when J.E. Pearce, the founder of the Department of Anthropology at the University of Texas, arranged for expanded archeological work in Texas, much of which was centered in east Texas. In 1935, Walter Goldschmidt prepared a synthesis of archeological sites in Titus County and their relationship to other sites in east Texas (Goldschmidt 1935). The importance of this early work is that it was one of the first attempts at defining a chronological framework for the region. In Smith County, Jack Hughes recorded 45 sites from 1938 to 1943 (Kleinschmidt 1982).

In the decades after the Second World War, archeological research in the region was, for the most part, related to investigations along waterways for reservoir development. Cedar Creek Reservoir, on the western side of Henderson County in the middle Trinity River basin, was surveyed in 1961, 1963, and 1964 by the Texas Archeological Salvage Project. Three sites were excavated in 1964 by Dee Ann Story (Story 1965). In 1957, E.B. Jelks conducted a survey of Blackburn Crossing Reservoir (present-day Lake Palestine) in Anderson, Cherokee, Henderson, and Smith counties, in the Upper Neches River basin. He recorded one site (41SM73) in Smith County. The Joe Meyer site was a Late Caddo cemetery that at one time contained over 20 burials (Jelks 1958; Johnson 1958, 1961). A later survey conducted by Southern Methodist University in 1969 and 1970 for the enlargement of Lake Palestine located 98 sites, including 41 in Henderson County, 28 in Smith County, 10 in Anderson County, and 15 in Cherokee County (Anderson 1971; Anderson et al. 1974). These sites ranged in age from the Middle Archaic to Late Caddo, with Caddo sites exhibiting ceramics from both the Alto and Frankston phases (Anderson et al. 1974). Other reservoir studies conducted within the Neches-Angelina River basin include Lake Athens (Duffield 1960) and the proposed Ponca Reservoir (Skinner 1971a). Investigations associated with reservoir projects within the Sabine River basin include Lake Tawakoni (formerly Iron Bridge Reservoir) (Duffield 1961; Duffield and Jelks 1961; Johnson 1957), Lake Mineola (Carl Estes Reservoir) (Malone 1972), Lake Fork Reservoir (Bruseth 1975; Bruseth et al. 1977; Skiles 1978; Skinner 1971b, 1975), proposed

Big Sandy Reservoir (Gibson 1982; Perttula et al. 1986), and proposed Water's Bluff Reservoir (Perttula 1986).

Nonreservoir cultural resource management work pertinent to the current project has been conducted in association with power generation projects, water pipeline projects, park expansions, well pads, and power transmission projects. The State Department of Highways and Public Transportation conducted numerous surveys in the county from 1973 to 1979, but no cultural resource sites were recorded. Alan Skinner recorded 8 Civil War commercial salt-manufacturing furnace locations and 10 furnaces along the Neches-Saline (Skinner 1971c).

In 1977, W.H. Whitsett recorded three prehistoric sites (41SM94, 41SM95, and 41SM96) during a survey for the Texas Water Quality Board and the City of Tyler (Whitsett 1977). Of the three, only 41SM94, a multicomponent site, was found to contain Caddo pottery. Nash et al. (1993) recorded three sites (41SM174, 41SM175, and 41SM180) during a cultural resources survey for a proposed transmission line. Site 41SM174 was recorded as an unknown prehistoric campsite, while sites 41SM175 and 41SM180 were historic period house sites. Schmidt (1996) recorded three sites (41SM200, 41SM201, and 41SM202) during a cultural resources survey for the East Texas Electric Cooperative. Site 41SM201 was found to be multicomponent with both historic and prehistoric artifacts, while 41SM200 and 41SM202 were both historic period sites.

An archeological survey of Tyler State Park, conducted by TPWD (Howard et al. 1995), resulted in the recording of six sites (41SM184, 41SM185, 41SM186, 41SM187, 41SM188, and 41SM189), of which two (41SM184 and 41SM189) were designated State Archeological Landmarks (SALs). Site 41SM184 was determined to be a Late Caddo campsite, while 41SM189 was found to be the remnant of a Civilian Conservation Corps camp from the 1930s. The remaining four sites consisted of late-nineteenth- to early-twentieth-century wells, dumps, and habitations.

In 1999, Alan Skinner recorded three historic period sites during archeological investigations at Faulkner Park and Pounds Field Airport (Skinner 1999a, 1999b). Two of these (41SM235 and 41SM236) were recorded at Faulkner Park, and included a mid to late 1800s house site and an early 1900s foundation for the Harris Chapel School. The third site (41SM242) consisted of the remains of a World War II-period barracks from Tyler Army Airfield. That same year, Perttula and Nelson (1999) conducted an archeological survey for the proposed Starrville Water Supply waterline and recorded three prehistoric lithic scatters of indeterminate date (41SM227, 41SM228, and 41SM229). In 2003, archeological investigations were conducted at the Lindsey Park site (41SM300) by Archeological & Environmental Consultants (Perttula et al. 2003). Site 41SM300 was found to be a multicomponent site that was occupied from the Late Archaic to Woodland periods, with an apparent reoccupation during the Late Caddo period. The excavations resulted in the recovery of a burial, two chert dart points, a mano/pitted stone, lithic debris, wood charcoal, and nutshells (Perttula et al. 2003). Radiocarbon dates suggested that the burial was affiliated with the Frankston phase (ca. A.D. 1400–1615). Archeological surveys of several well pads at Lake Tyler East,

conducted by Archeological & Environmental Consultants (Perttula and Nelson 2004a, 2005), recorded four prehistoric sites in the Angelina drainage basin (41SM209, 41SM213, 41SM332, and 41SM333). Sites 41SM209 and 41SM213 were judged to be Caddo sites, while the other two were of indeterminate age.

Perttula and Nelson also conducted several archeological investigations for the City of Tyler-Lake Palestine Water Treatment Pipeline project (Perttula and Nelson 2000, 2001a, 2001b, 2004b). Eight cultural resource sites were recorded (41SM203, 41SM271, 41SM272, 41SM273, 41SM274, 41SM275, 41SM281, and 41SM291), two of which had Caddo components. Test excavations were later conducted at the Prestonwood site (41SM272) and the Broadway site (41SM273) (Perttula and Nelson 2001a, 2004b). Site 41SM272 was found to be a multicomponent prehistoric site with Paleoindian, Archaic, and Caddo artifacts, while 41SM273 yielded Late Caddo pottery.

Other projects in the county include assessment work on mound sites in the Sabine River basin and various other archeological testing projects. In the 1980s, Tim Perttula conducted a survey for Caddo mound sites within the Sabine River basin in east Texas and adjacent portions of northwestern Louisiana (Perttula 1989). Three mound sites (41SM54, 41SM55, and 41SM62) were identified in Smith County — 41SM54 (the Jamestown site), 41SM55 (the Bryan Hardy site), and 41SM62. The Jamestown site appears to be a multi-mound site dating to the Middle Caddo period and is presently listed as a SAL. The Bryan Hardy site is another Middle Caddo mound site, while 41SM62 was recorded as a possible mound site by Robert Mallouf and Dee Ann Story in 1978.

In 1997, test excavations were conducted by Nancy Kenmotsu at 41SM203 for TxDOT. Site 41SM203 was found to be a Late Archaic to Late Prehistoric campsite with only a small amount of Caddo pottery (Goode 1997). In 2001, TxDOT conducted archeological testing at site 41SM231 for the South Tyler Greenbelt project. The site was determined to be an Early to Middle Caddo campsite and yielded 98 shell-and-grog-tempered plainware sherds (Ahr 2001).

In 1997 and 1998, archeological investigations were conducted at Camp Ford (41SM181), a Confederate prisoner of war (POW) camp, presently listed as a SAL. Archeological fieldwork for the Camp Ford Archaeological and Historical project included test excavations and remote sensing (Thoms 2004). Site 41SM181 was found to contain over 80 subsurface features, including slave-dug footing trenches for the stockade walls, POW-built houses, refuse pits, drainage ditches, and latrine features. Artifacts recovered from the excavations included military buttons, insignia fragments, bullets, and pieces of ceramics and glass (Thoms 2004).

In 2007, an archeological survey with geoarcheological investigations was conducted by PBS&J for Proposed Loop 49, Segment 3A (Pemberton et al. 2009). The investigation included pedestrian survey of the proposed ROW between SH 155 on the south and SH 31 on the north, and geoarcheological investigation within the floodplain of Indian Creek. Four new archeological sites were recorded (41SM372, 41SM373, 41SM374, and 41SM385). These included two prehistoric

sites (41SM372 and 41SM385) and two historic sites (41SM373 and 41SM374). Only one site was recommended for further archeological assessment (41SM385).

Site 41SM385 was identified in two backhoe trenches during Phase I investigations in the floodplain north of Indian Creek, at the proposed crossing of Toll 49, Segment 3A (Pemberton et al. 2009). Four trenches (4-7) were excavated to investigate a very low rise, believed to be an old levee remnant, immediately north of a shallow slough, which was thought to represent a relict channel of the creek. Two of the trenches (4 and 5) were culturally positive. Nine prehistoric lithic artifacts, including a biface fragment and eight debitage fragments, and small fragments of charcoal were present in two backhoe trenches and one 50-x-50-cm test unit adjacent to one of the trenches.

IV. RESEARCH DESIGN AND METHODS

The testing strategy was designed to determine whether the site harbors significant data resources that meet the criteria warranting inclusion in the NRHP. Such resources may include intact cultural features or deposits that maintain integrity of design and materials and are likely to yield information important to prehistory. This work complies with applicable standards as defined or referenced in 13 TAC 26.20 and THC policy.

The field investigations were conducted in three stages: systematic shovel testing, judgmentally placed mechanical excavations, and hand excavation. Horizontal control was maintained with a total station established over a site datum. All shovel tests, trenches, and hand excavation units were tied to the site datum with the total station. The total station was also used to map the site's topography.

HORIZONTAL CONTROL

A control grid with 10-m grid intercepts oriented parallel to the proposed ROW edge was established on the site. The control grid encompassed the site boundaries as defined during the initial survey and recordation and allowed for possible site boundary expansion. All shovel tests, backhoe trenches, and hand excavation units were tied to the grid with a total station.

SHOVEL TESTING

During the first stage of the investigations, site 41SM385 was subjected to a systematic program of shovel testing in order to evaluate the horizontal and vertical distribution of artifacts across the site and determine whether behaviorally meaningful patterns of discard, such as activity areas, were preserved at the site. This effort was designed to horizontally identify and define individual site components and activity areas as well as areas having a high probability for cultural features. Shovel tests measuring approximately 30 cm in diameter and 1 m in depth were excavated during two phases. During the first phase, shovel tests were excavated at 10-m grid intercepts across the site to broadly define artifact density clines. During the second phase, shovel tests were primarily excavated at 5-m grid intercepts between previously excavated shovel tests within high artifact density and diversity areas defined during the first stage. A total of 54 shovel tests were excavated during the investigation. All shovel tests were excavated in arbitrary 10-cm levels and screened with ¼-inch-mesh hardware cloth.

MECHANICAL EXCAVATION

Five backhoe trenches were used to sample areas of high artifact density and to expose a representative cross section of the site. Trench walls were cleaned with hand tools and closely examined to determine whether cultural features were present. A representative profile was drawn of each trench, and a portion of the corresponding trench wall was photographed. The goal of this

effort was to search for intact cultural features and deposits and to expose an intermittent stratigraphic profile of the site.

HAND EXCAVATION

Nine 1-x-1-m test units were excavated in arbitrary 10-cm levels with a total volume of 10.4 m³ excavated at site 41SM385. As a specification of the scope of work included in the Texas Antiquities Permit, 3 m³ of hand excavation were to be devoted to investigating an apparent hearth feature in Trench 5 found during trenching associated with intensive survey investigations (Pemberton et al. 2009:62–63), misidentified as Trench 4 in the scope of work for testing of 41SM385. After reopening and extending Trench 5 and excavation of test units 6 and 7 as close as possible to the possible hearth feature, given the slumping of Trench 5, it was determined that the reddish brown to strong brown compact sand zone underlying a black manganese zone thought to be a cultural feature was generally ubiquitous in this portion of the site and contained no more fire-cracked rock, or charcoal than the zones above and below it. The remainder of the test units were used to sample high artifact density and diversity areas and to search for intact cultural features. They were placed according to the field director's judgment, based on the results of shovel testing and trench excavation, to optimize the potential for the location of cultural features and recovery of artifacts and faunal and macrobotanical remains. Units 1-5 were placed in the area of the site with the highest density of cultural material first identified in Shovel Test 23. Units 8 and 9 were placed to sample a location of relatively high artifact density in the southern part of the site.

SPECIAL STUDIES

During the field investigation, soil samples were collected for possible radiocarbon dating or special studies. Special studies that were considered during the analysis phase of the project include particle-size analysis and magnetic susceptibility. However, given the absence of cultural features or defined living surfaces identified during field investigations, no special studies were conducted and the only radiocarbon dating was of selected ceramic sherds.

LABORATORY ANALYSIS AND CURATION

All recovered artifacts were brought back to the PBS&J laboratory for analysis and preparation for curation. All artifacts have been washed, cataloged, and labeled in compliance with Texas Archeological Research Laboratory (TARL) standards. All recovered artifacts, field notes, and records will be curated at TARL.

The assemblage of lithic tools was examined under low-power microscopy in order to identify patterns of use wear. Morphological characteristics of projectile points were used to identify cultural affiliation and assess manufacturing techniques when possible. Lithic debitage was classified in categories reflecting state of reduction. The entire lithic assemblage, including tools and debitage, was classified into raw material categories and evaluated for thermo-alteration.

For ceramic sherds, technological attributes recorded for sherds of sufficient size included (1) paste constituency (i.e., identification of the type of nonplastic inclusions [i.e., sand, bone, grog]), the predominant size range of nonplastic inclusions [i.e., medium sand, fine sand, very fine sand], and texture; (2) exterior and interior surface treatment; (3) exterior and interior decorative treatment; (4) morphological class (i.e., body, base, or rim); (5) average thickness; and (6) firing environment (i.e., oxidizing vs. nonoxidizing).

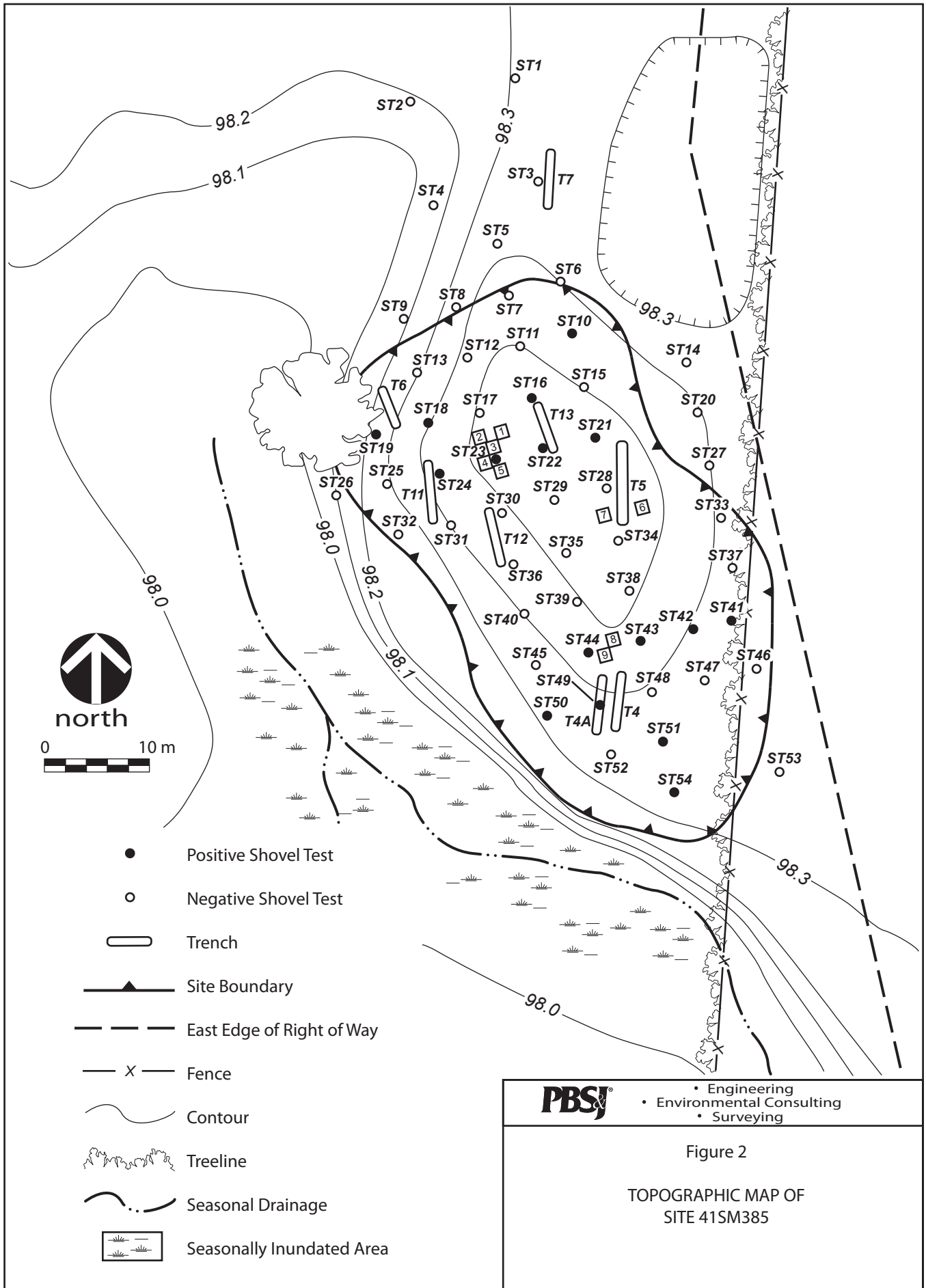
V. RESULTS OF THE INVESTIGATION

SHOVEL TESTING

The site was systematically sampled with 54 shovel tests at 10-m and 5-m grid intercepts covering the site area (Figure 2). The soil encountered in shovel tests generally consisted of a loose to slightly firm, very fine sandy loam. Excavation of each shovel test to a depth of at least 80 centimeters below the surface (cmbs) was attempted. The depth of shovel tests ranged from 50 to 100 cmbs, averaging approximately 92 cmbs (Table 2).

Table 2: Termination Depth of Shovel Tests, Test Units, and Backhoe Trenches

Unit No.	Termination Depth in cmbs	Unit No.	Termination Depth in cmbs	Unit No.	Termination Depth in cmbs
Shovel Test 1	80	Shovel Test 24	90	Shovel Test 47	80
Shovel Test 2	50	Shovel Test 25	80	Shovel Test 48	100
Shovel Test 3	90	Shovel Test 26	80	Shovel Test 49	100
Shovel Test 4	90	Shovel Test 27	100	Shovel Test 50	90
Shovel Test 5	90	Shovel Test 28	90	Shovel Test 51	100
Shovel Test 6	90	Shovel Test 29	90	Shovel Test 52	90
Shovel Test 7	90	Shovel Test 30	90	Shovel Test 53	90
Shovel Test 8	100	Shovel Test 31	100	Shovel Test 54	100
Shovel Test 9	90	Shovel Test 32	90		
Shovel Test 10	100	Shovel Test 33	100	Trench 4a	150
Shovel Test 11	100	Shovel Test 34	100	Trench 5	150
Shovel Test 12	100	Shovel Test 35	100	Trench11	130
Shovel Test 13	100	Shovel Test 36	100	Trench12	125
Shovel Test 14	70	Shovel Test 37	100	Trench13	125
Shovel Test 15	100	Shovel Test 38	90		
Shovel Test 16	100	Shovel Test 39	90	Test Unit 1	110
Shovel Test 17	80	Shovel Test 40	90	Test Unit 2	110
Shovel Test 18	100	Shovel Test 41	110	Test Unit 3	120
Shovel Test 19	100	Shovel Test 42	90	Test Unit 4	110
Shovel Test 20	60	Shovel Test 43	100	Test Unit 5	100
Shovel Test 21	90	Shovel Test 44	90	Test Unit 6	130
Shovel Test 22	90	Shovel Test 45	90	Test Unit 7	100
Shovel Test 23	110	Shovel Test 46	90	Test Unit 8	130
				Test Unit 9	110



Sixteen shovel tests (nos. 10, 16, 18, 19, 21–24, 41–44, 49–51, and 54) were culturally positive, yielding a total of 28 lithic debitage fragments, 2 ceramic sherds, and 1 fragment of thermally altered hematitic sandstone. Cultural material occurred between 20 and 100 cmbs with the heaviest concentrations in levels 4 (30–40 cmbs) and 7 (60–70 cmbs) (see Appendix A).

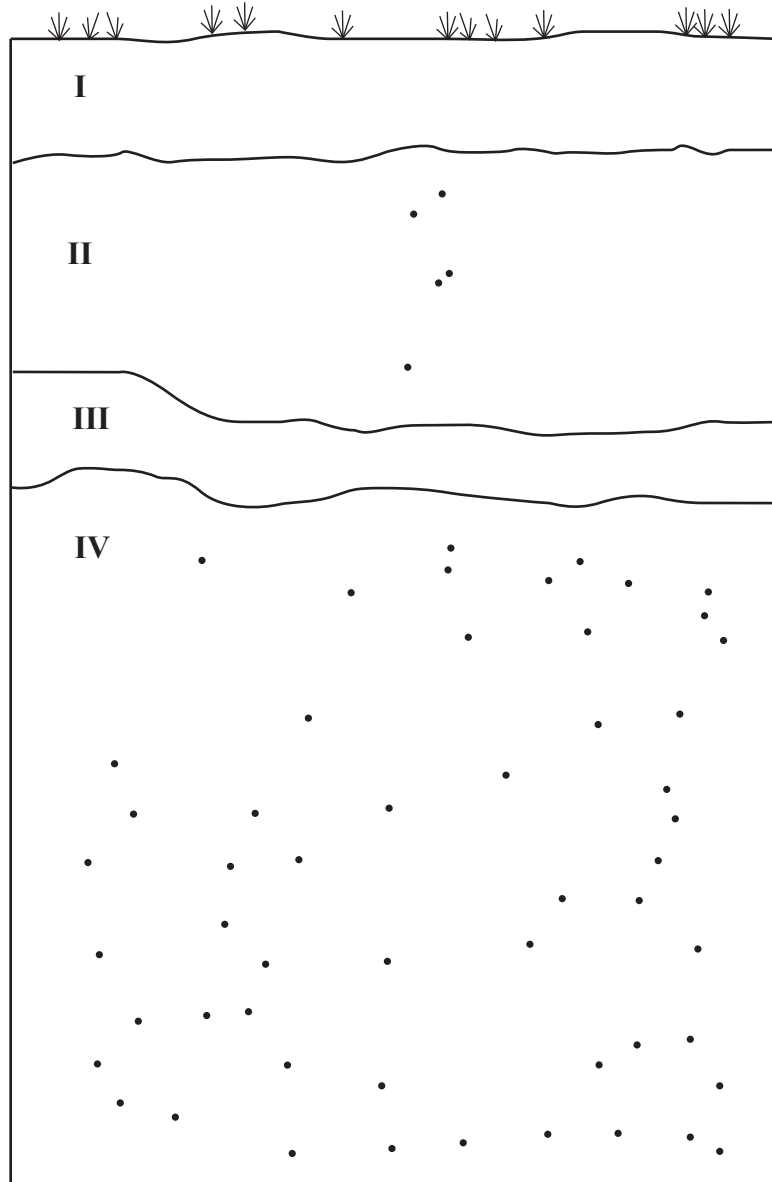
MECHANICAL EXCAVATION

Five backhoe trenches were excavated to prospect for cultural features and to help evaluate the site's formational history. Trenches 11, 12, and 13 were oriented generally north-south and were excavated in the central part of the site that exhibited the highest artifact density to prospect for cultural features and expose a general profile of the site (see Figure 2). Two trenches excavated during the original investigation (4 and 5) were further investigated by the reopening and expansion of Trench 5 and the excavation of Trench 4a as close to Trench 4 as was possible, given that the original trench has slumped significantly. The five trenches were each about 65 cm in width and ranged from about 6 to 8 m in length and 125 to 150 cm in depth averaging about 132 cmbs (see Table 2). No cultural features or cultural horizons were identified and no artifacts were collected during mechanical excavation of the five trenches.



Trenches typically exhibited a yellowish brown fine sandy loam Ap horizon that extended from the surface to a depth of 20 cmbs or slightly deeper (figures 3–6). Below this surface zone, the underlying soil zones were typically lighter-colored brown or gray fine sandy loam with mottles of darker browns. Beneath a depth of about 45 cmbs, the soils also contained yellowish red mottles with hematitic and manganese inclusions as well as fine orthoquartzite gravels. Trench 13 was atypical in that it did not exhibit yellowish red mottles, hematitic and manganese inclusions, and fine orthoquartzite gravels that characterized the deeper depth of the other trenches. This may be because Trench 13 was highest in elevation and farthest from the seasonally inundated areas south and southwest of the site and may not have been subjected to as severe a seasonal inundation as the other trenches.

HAND-EXCAVATED UNITS

Nine 1-x-1-m test units were excavated by hand (see Figure 2) to sample areas of interest identified during the original site recordation and during shovel testing and trenching conducted as part of the present investigation. Hand-excavated units ranged in depth from 100 to 130 cmbs, with an average depth of 113 cmbs (see Table 2). The cultural assemblage recovered from these units included lithic debitage and tools, ground stone fragments, ceramic sherds, and thermally altered rocks (see Appendix A). No prehistoric cultural features or stratigraphically discrete concentrations suggestive of intact cultural deposits were identified.



- I - 10YR 4/6 yellowish brown sandy silty loam, extends from the ground surface to a maximum depth of 20 cmbs
- II - 10YR 6/2 light brownish gray sandy silt mottled with 10YR 3/4 dark yellowish brown and 7.5YR 3/4 dark brown sandy silty loam, extends from the bottom of Zone II to a maximum depth of 50 cmbs
- III - 7.5YR 7/1 light gray mottled with 7.5YR 5/8 strong brown loose sand with hematitic and metaquartzite inclusions, extends from the bottom of Zone III to a maximum depth of 65 cmbs
- IV - 7.5YR 7/1 light gray mottled with 7.5YR 5/8 strong brown loose sand with hematitic inclusions, extends from the bottom of Zone III to an unknown depth

 Roots
 Ground Surface

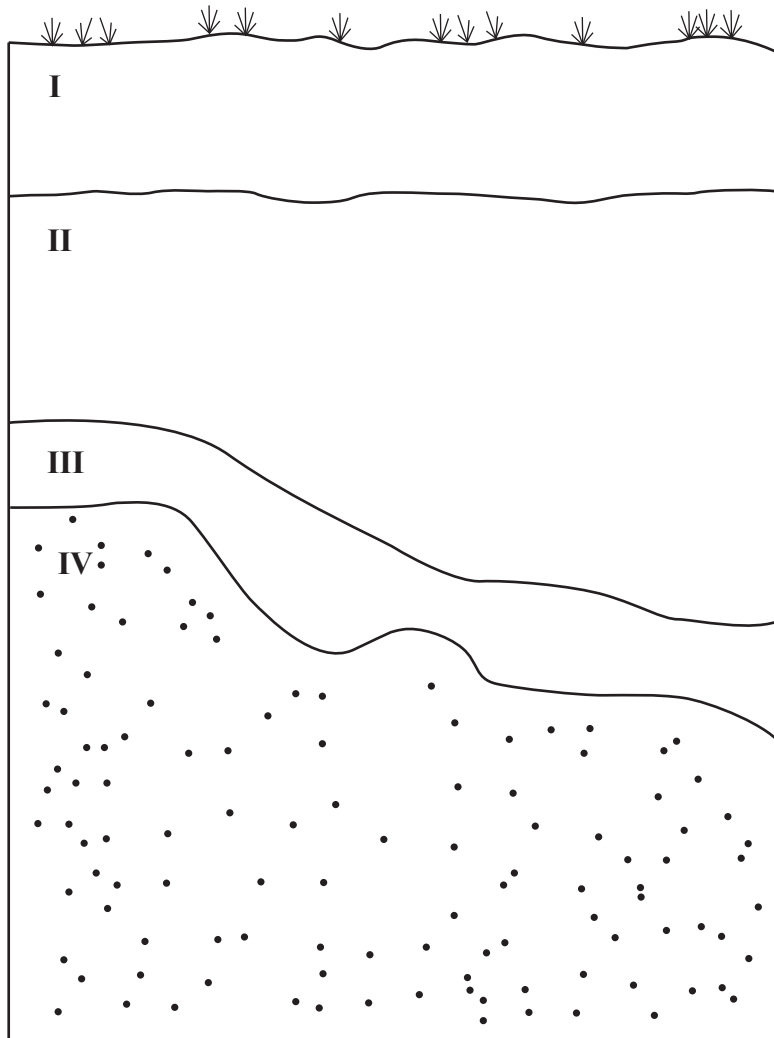
0  20 cm

PBSJ

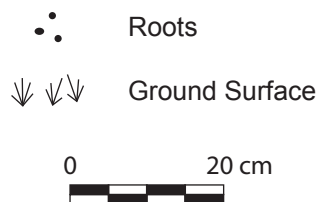
- Engineering
- Environmental Consulting
- Surveying

Figure 3

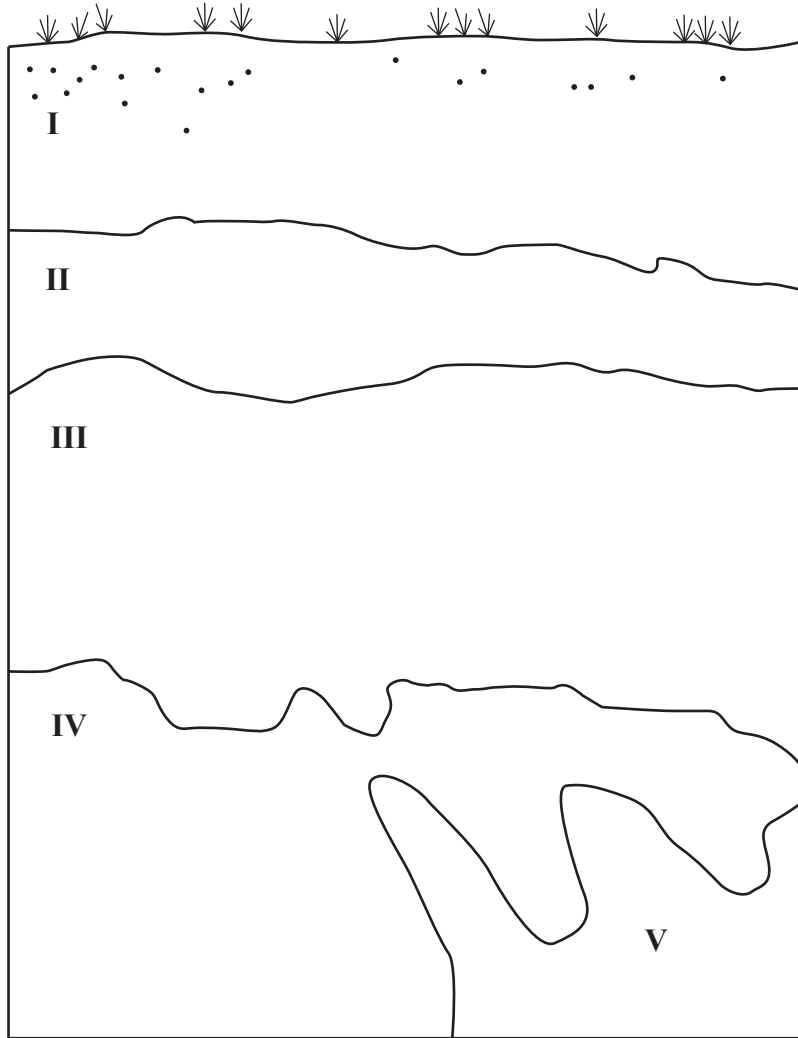
SITE 41SM385
 BACKHOE TRENCH 4A
 WEST WALL PROFILE



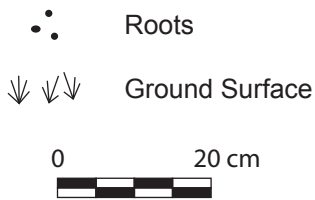
- I - 10YR 4/6 dark yellowish brown sandy silty loam, loose, subangular, gradual lower boundary, dense root mat, extends from the ground surface to a maximum depth of 20 cmbs
- II - 7.5YR 7/1 light gray sandy silt mottled with 7.5YR 3/4 dark brown, 10YR 5/6 yellowish brown and 7.5YR 3/4 dark brown sandy silty loam, loose, subangular, gradual lower boundary, extends from the bottom of Zone I to a maximum depth of 65 cmbs
- III - 7.5YR 7/1 light gray mottled with 5YR 4/6 yellowish red and 7.5YR 5/2 very dark brown loose sand with hematitic and orthoquartzite inclusions, loose, subangular, abrupt lower boundary, extends from the bottom of Zone II to a maximum depth of 90 cmbs
- IV - 7.5YR 7/1 light gray, 7.5YR 3/4 dark brown, and 5YR 4/6 yellowish red sand, loose subangular, unknown lower boundary



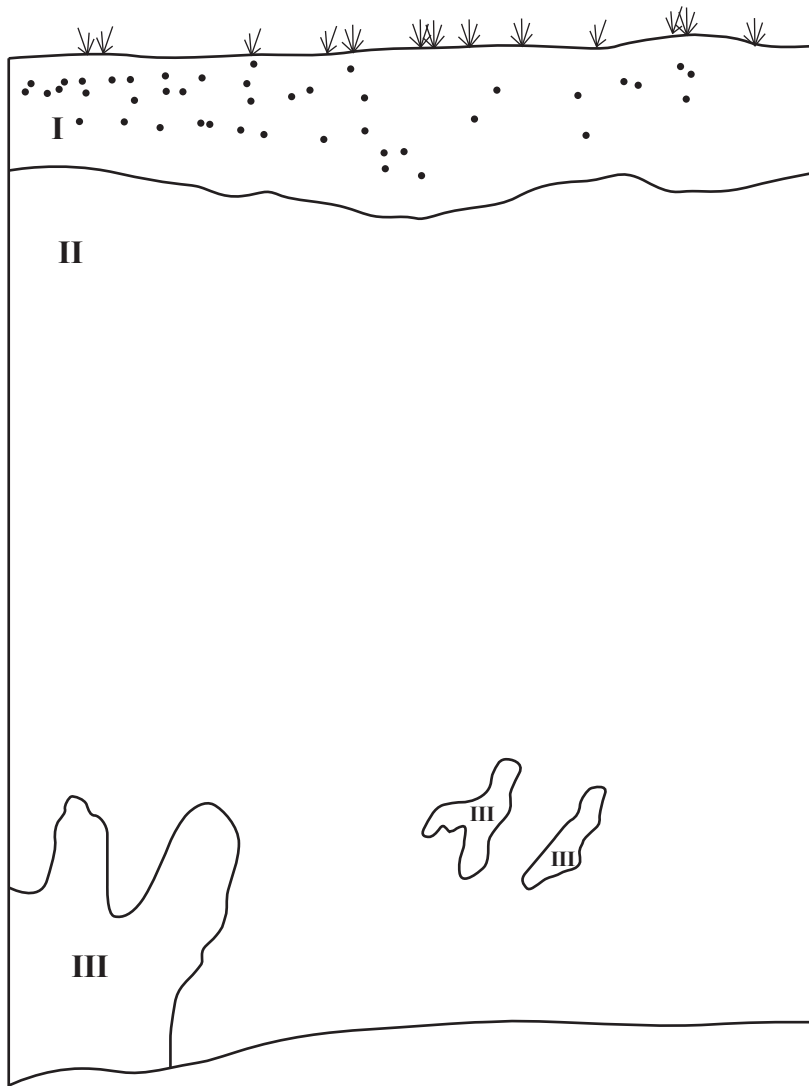
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	<p>Figure 4</p> <p>SITE 41SM385 BACKHOE TRENCH 11 WEST WALL PROFILE</p>



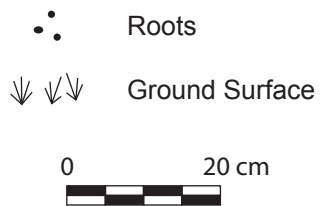
- I - 10YR 5/6 yellowish brown fine sandy loam, loose, subangular, gradual lower boundary, dense root mat, extends from the ground surface to a maximum depth of 35 cmbs
- II - 10YR 6/4 light yellow-brown silty loam, loose, subangular, gradual lower boundary, few roots, extends from the bottom of Zone I to a maximum depth of 50 cmbs
- III - 7.5YR 4/6 strong brown sandy loam mottled with 10YR 6/4 light yellow brown sandy loam and 2.5YR 4/8 red with 10YR 2/1 black manganese inclusions, loose, subangular, gradual lower boundary, extends from the bottom of Zone II to a maximum depth of 90 cmbs
- IV - 7.5YR 5/6 yellow brown, 5YR 3/4 dark brown, and 5YR 4/6 yellowish red sand, loose, subangular, unknown lower boundary
- V - 10YR 6/3 pale brown loose sand, no roots, unknown lower boundary



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	<p>Figure 5</p> <p>SITE 41SM385 BACKHOE TRENCH 12 WEST WALL PROFILE</p>



- I - 10YR 4/6 dark yellow-brown sandy silty loam, loose, subangular, gradual lower boundary, dense root mat, extends from the ground surface to a maximum depth of 20 cmbs
- II - 7.5YR 4/6 strong brown and 10YR 6/4 light yellow-brown compact fine sandy loam extending to an unknown depth
- III - 10YR 6/3 pale brown loose sand extending to an unknown depth



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	<p>Figure 6</p> <p>SITE 41SM385 BACKHOE TRENCH 13 WEST WALL PROFILE</p>

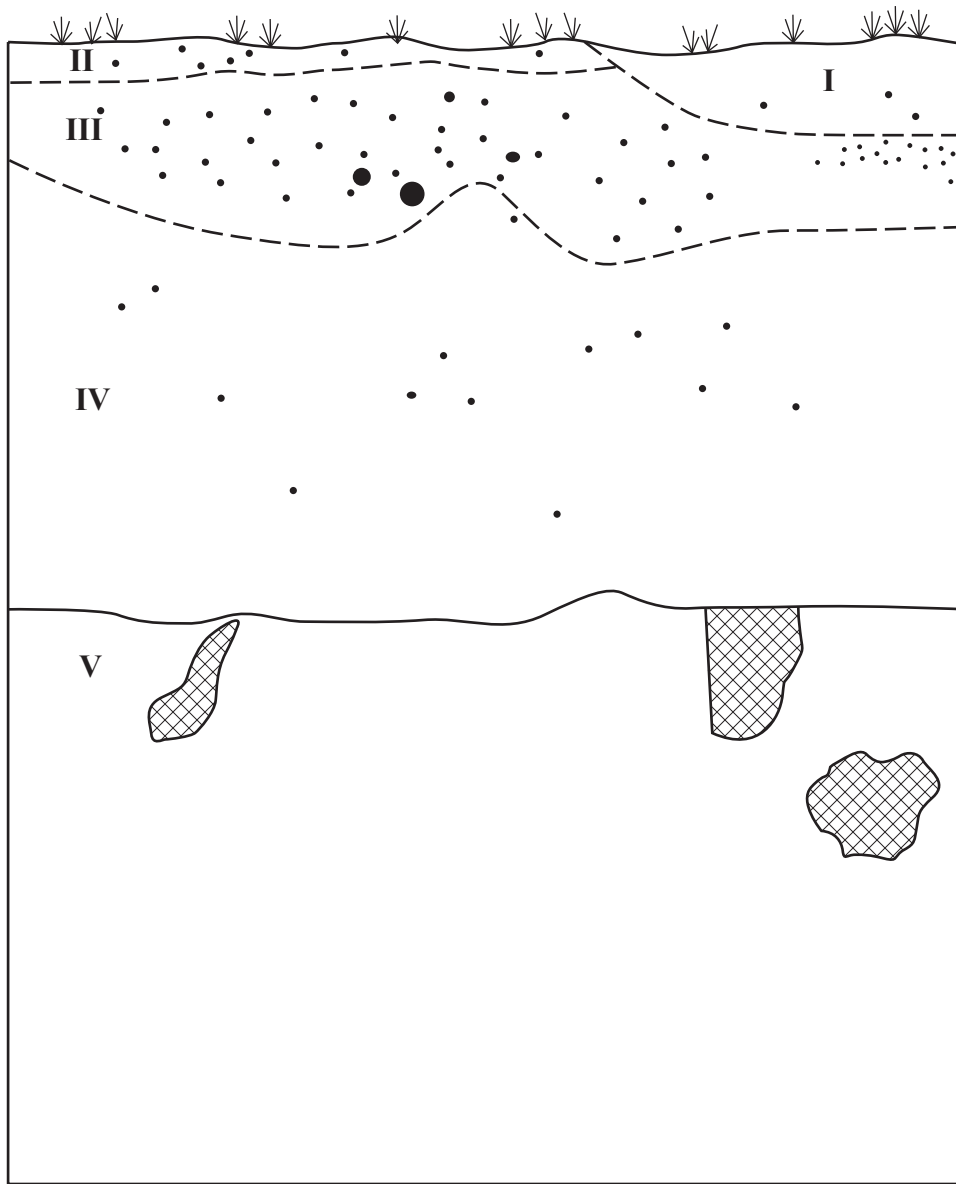
During controlled hand excavation, 766 artifacts were recovered from the ground surface to a depth of 130 cm. The bulk of the artifacts (89.5 percent) were recovered between 10 and 80 cm in depth. Artifacts largely represent a roughly equivalent vertical distribution within this range; however, the heaviest density of material was from between 20 and 40 cm in depth where 34.5 percent of the artifacts were recovered.

Test Units 1–5. Units 1–5 were excavated in order to investigate a high artifact density area in the northwest-central part of the site that was identified during shovel testing. Units 1 and 2 were excavated to a depth of 110 cmbs, and units 3–5 were excavated to a depth of 120 cmbs. All five units exhibited a fine sandy loam that manifested manganese and hematite inclusions at lower depths (figures 7–10).




The vertical distribution of artifacts was typically a homogenous distribution between about 10 and 80 cmbs with lower densities above and below this zone (Table 3). Unit 1 yielded 90 pieces of nondiagnostic lithic debitage, 3 lithic tools including a Gary dart point, and 3 pieces of thermally altered hematitic sandstone. Unit 2 contained 93 pieces of nondiagnostic lithic debitage, 1 lithic tool fragment, and 2 pieces of thermally altered hematitic sandstone. Unit 3 yielded 104 pieces of nondiagnostic lithic debitage, 1 lithic tool, 7 prehistoric ceramic sherds, and 1 thermally altered rock. Unit 4 contained 107 pieces of nondiagnostic lithic debitage, 4 lithic tools including 1 abrader and 1 unidentified dart point fragment, 1 prehistoric ceramic sherd, and 1 piece of thermally altered hematitic sandstone. Unit 5 contained 188 pieces of nondiagnostic lithic debitage, 2 lithic tools including 1 abrader and a Gary dart point, and 1 piece of thermally altered hematitic sandstone.

Test Units 6 and 7. These two units were excavated to further investigate an area of the site found to contain cultural material during the site’s original Phase I recordation. Unit 6 was excavated to a depth of 130 cmbs and exhibited compact to loose, sandy loam over loose sand with hematite and manganese inclusions, underlain by a zone of loose sandy loam. Unit 7 was excavated to a depth of 100 cmbs and exhibited compact to loose, sandy loam over loose sandy loam with manganese and hematite inclusions but was terminated prior to encountering the lower stratum of loose sandy loam (Figure 11). The heaviest vertical distribution of artifacts was between about 20 and 70 cmbs in Unit 6 and 10 and 100 cmbs in Unit 7 (see Table 3). Unit 6 contained 19 pieces of nondiagnostic lithic debitage and 1 Gary type dart point. Unit 7 contained 21 pieces of nondiagnostic lithic debitage, 4 prehistoric ceramic sherds, and 1 piece of thermally altered hematitic sandstone.


Test Units 8 and 9. These two 1-x-1-m units were excavated to investigate an area of relatively high artifact density in the southern portion of the site identified during shovel testing. Because a relatively large number of thermally altered rock fragments was recovered in unit 8, unit 9 was placed immediately southwest to prospect for an intact cultural feature. Unit 8 extended to 130 cmbs and Unit 9 extended to a depth of 110 cmbs. Their stratigraphy was similar to Unit 6,

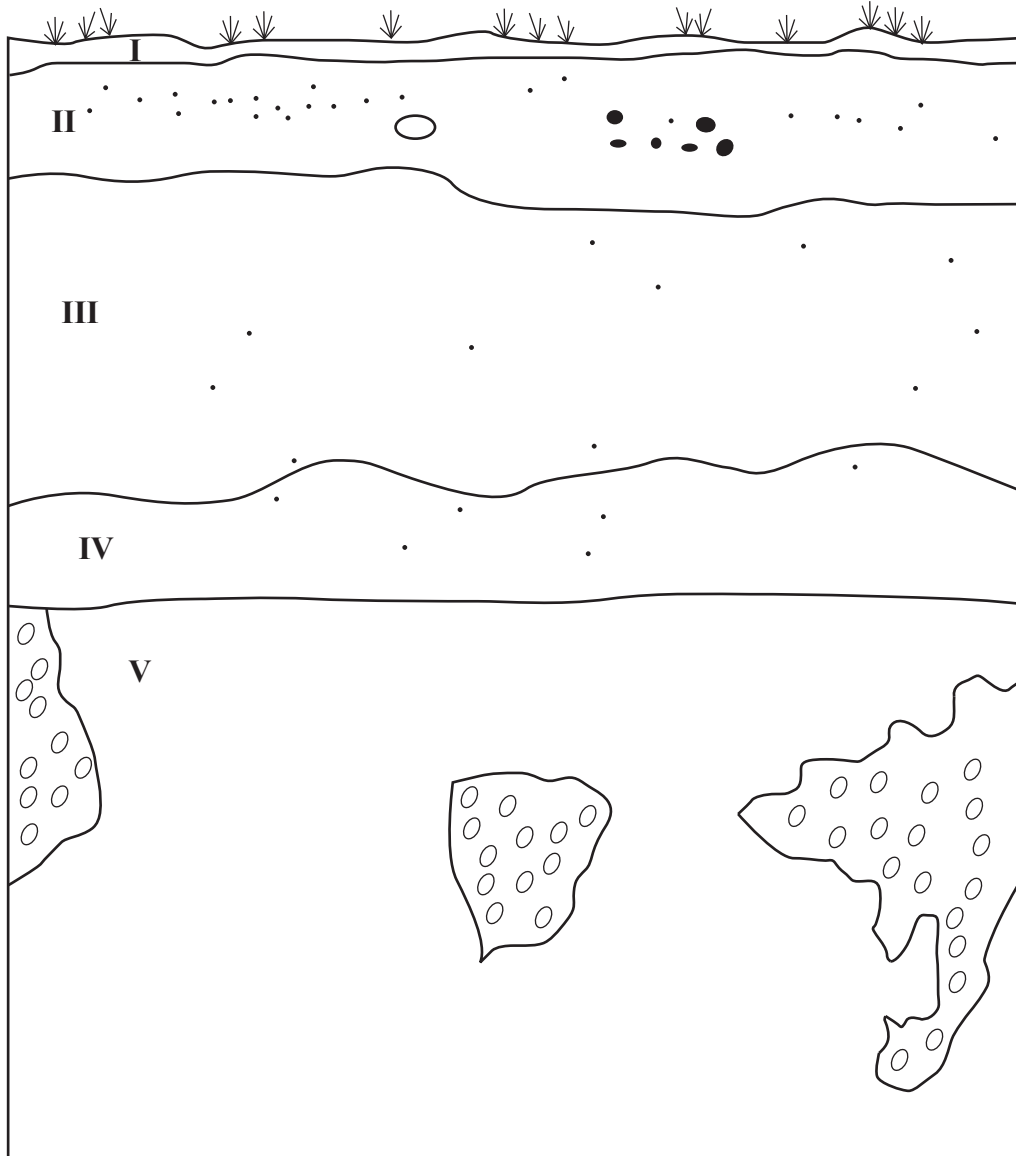


- I - 7.5YR 2.5/1 black sandy loam with charcoal
- II - 7.5YR 3/2 dark brown sandy loam
- III - 10YR 4/4 dark yellowish brown loamy sand
- IV - 7.5YR 3/3 dark brown sand
- V - 10YR 2/1 black manganese, 7.5YR 5/5 strong brown sand and 10YR 4/3 dark yellowish brown sand


-  Roots
-  Manganese
-  Ground Surface



	<ul style="list-style-type: none"> • Engineering • Environmental Consulting • Surveying
	<p>Figure 7</p> <p>SITE 41SM385</p> <p>UNIT 2</p> <p>NORTH WALL PROFILE</p>



- I - 7.5 YR 3/2 dark brown sandy loam
- II - 10YR 4/4 dark yellowish brown loamy sand
- III - 7.5YR 3/3 dark brown sand
- IV - 10YR 2/1 black manganese with 10YR 4/3 brown sand
- V - 10YR 2/1 black manganese mottles with 10YR 4/3 brown sand and 2.5YR 5/3 dark reddish brown hematitic gravels

 Hematic Gravel Concentrations

 Roots

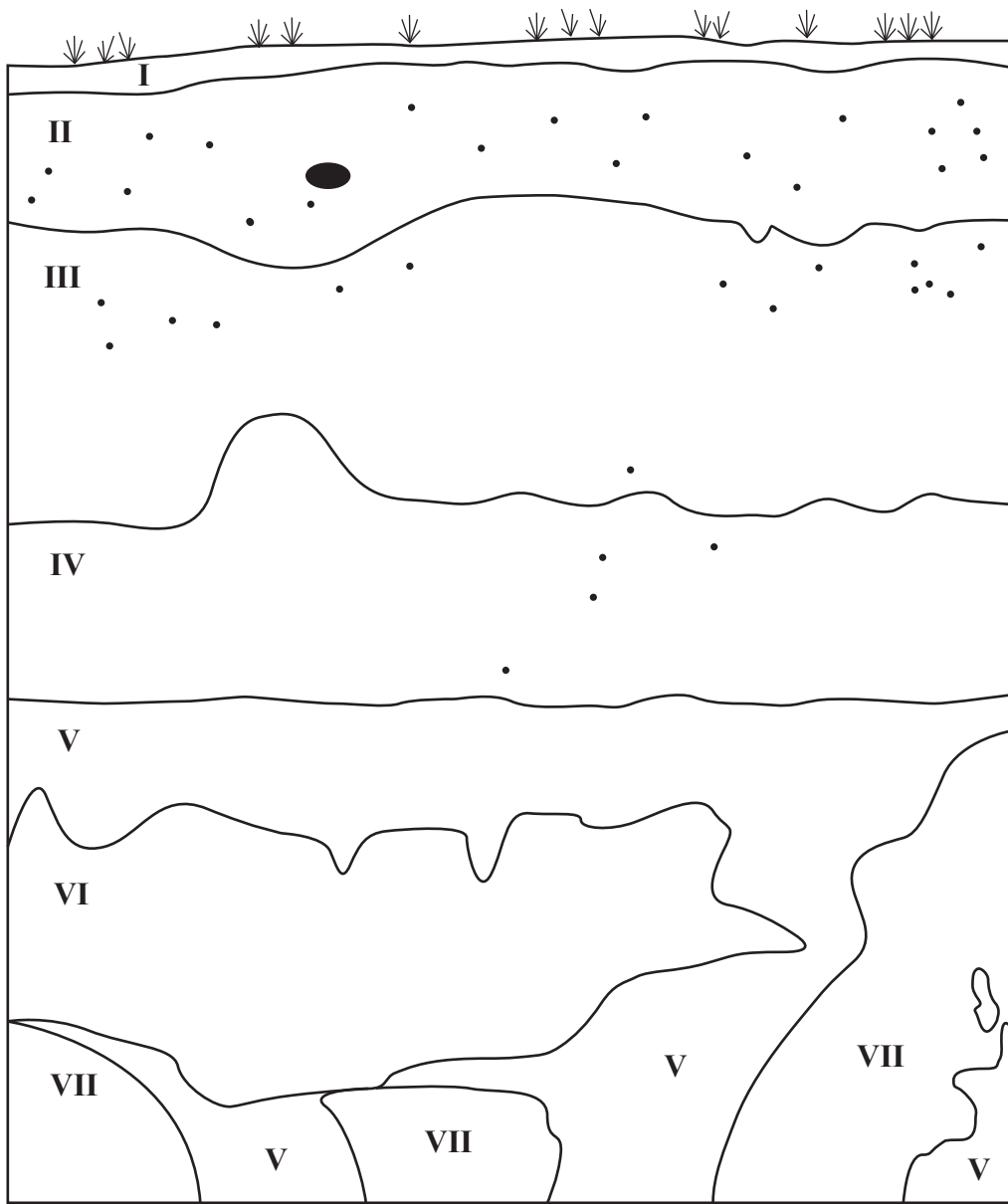
 Ground Surface

0  20 cm

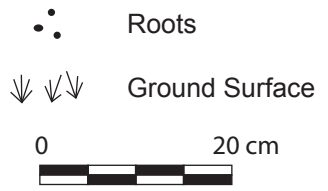
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Figure 8

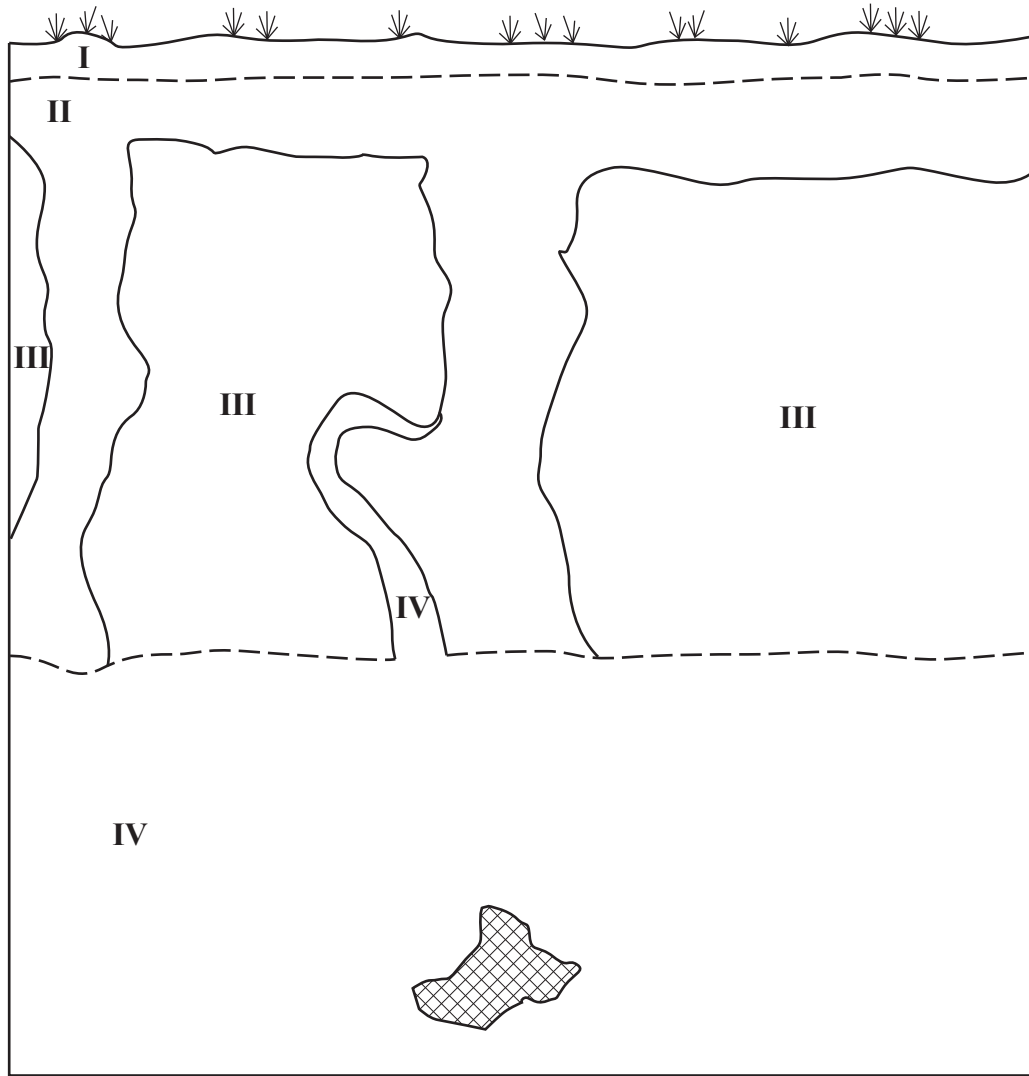
SITE 41SM385
 UNIT 3
 NORTH WALL PROFILE




- I - 7.5YR 3/2 dark brown sandy loam
- II - 10YR 4/4 dark yellowish brown loamy sand
- III - 7.5YR 3/3 dark brown sand
- IV - 10YR 2/1 black manganese mottles with 10YR 4/3 brown sand and 2.5YR 5/3 dark reddish brown hematitic gravels
- V - 7/5YR 4/6 strong brown and 10YR 6/3 pale brown sandy loam with some hematitic gravels
- VI - 7/5YR 4/6 strong brown and 10YR 6/3 pale brown sandy loam with over 50 percent hematitic gravels
- VII - 10YR 6/3 pale brown sandy loam




	<ul style="list-style-type: none"> • Engineering • Environmental Consulting • Surveying
	<p>Figure 9</p> <p>SITE 41SM385 UNIT 4 NORTH WALL PROFILE</p>

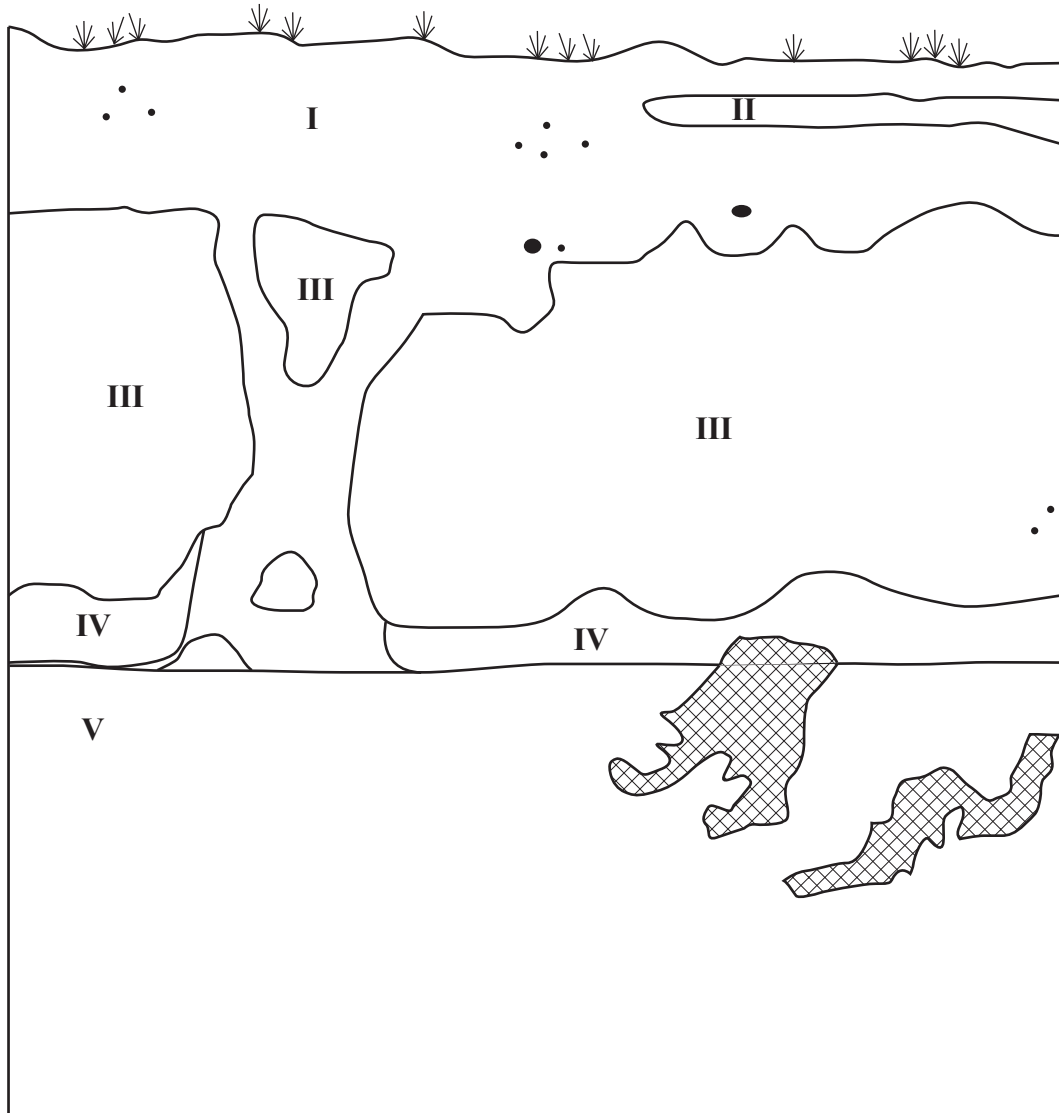


- I - 7.5YR 3/2 dark brown sandy loam
- II - 10YR 4/4 dark yellowish brown loamy sand
- III - 7.5YR 3/3 dark brown sand
- IV - 7.5YR 4/6 strong brown sand and 10YR 6/3 pale brown sandy loam with 10YR 2/1 black manganese mottles

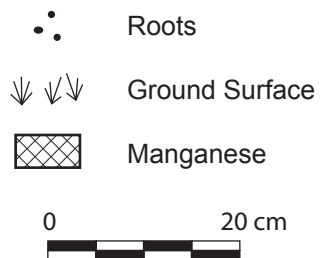
- Roots
- ∨ ∨ ∨ Ground Surface
-  Decomposing hematitic gravels



	<ul style="list-style-type: none"> • Engineering • Environmental Consulting • Surveying
	<p>Figure 10</p> <p>SITE 41SM385</p> <p>UNIT 5</p> <p>NORTH WALL PROFILE</p>



- I - 10YR 6/3 pale brown loamy sand
- II - 7.5YR 3/2 dark brown loamy sand
- III - 7.5YR 4/4 dark brown sand
- IV - 10YR 2/1 black manganese with 10YR 4/3 brown sand
- V - 7.5YR 4/6 and 7/5YR 5/6 strong brown sandy loam mottled with 2.5YR 2.5/4 dark reddish brown hematitic nodules




	<ul style="list-style-type: none"> • Engineering • Environmental Consulting • Surveying
	<p>Figure 11</p> <p>SITE 41SM385 UNIT 7 NORTH WALL PROFILE</p>

Table 3: Cultural Material from Test Units

Unit	Level	Ceramics	Diagnostic Points	Nondiagnostic Chipped Lithic Tools	Ground Stone	Lithic Manufacturing Debris	Thermally Altered Rocks	Fauna/Flora	Carbon Sample
Test Unit 1-5 Group									
1	1	0	0	0	0	2	0	0	0
	2	0	0	1	0	23	0	0	0
	3	0	0	0	0	11	0	0	0
	4	0	0	1	0	9	0	0	0
	5	0	0	0	0	12	1	0	0
	6	0	0	0	0	9	2	0	0
	7	0	0	0	0	6	0	0	0
	8	0	0	0	0	12	0	0	1
	9	0	1	0	0	5	0	0	0
	10	0	0	0	0	1	0	0	0
	11	0	0	0	0	0	0	0	0
Unit Subtotal		0	1	2	0	90	3	0	1
2	1	0	0	0	0	0	0	0	0
	2	0	0	0	0	3	0	0	0
	3	0	0	1	0	24	0	0	0
	4	0	0	0	0	17	1	0	0
	5	0	0	0	0	8	1	0	0
	6	0	0	0	0	11	0	0	0
	7	0	0	0	0	13	0	0	0
	8	0	0	0	0	10	0	0	0
	9	0	0	0	0	5	0	0	1
	10	0	0	0	0	2	0	0	0
	11	0	0	0	0	0	0	0	0
Unit Subtotal		0	0	1	0	93	2	0	1

Table 3 (Cont'd)

Unit	Level	Ceramics	Diagnostic Points	Nondiagnostic Chipped Lithic Tools	Ground Stone	Lithic Manufacturing Debris	Thermally Altered Rocks	Fauna/Flora	Carbon Sample
3	1	7	0	0	0	0	0	0	0
	2	0	0	0	0	10	0	0	0
	3	0	0	0	0	14	0	0	0
	4	0	0	0	0	19	0	0	0
	5	0	0	0	0	6	0	0	0
	6	0	0	0	0	22	1	0	0
	7	0	0	0	0	17	0	0	0
	8	0	0	0	0	11	0	0	0
	9	0	0	1	0	1	0	0	0
	10	0	0	0	0	3	0	0	0
	11	0	0	0	0	1	0	0	0
	12	0	0	0	0	0	0	0	0
Unit Subtotal		7	0	1	0	104	1	0	0
4	1	0	0	0	0	1	0	0	0
	2	0	0	0	1	2	0	0	0
	3	0	0	0	0	25	0	0	0
	4	0	0	0	0	14	1	0	0
	5	1	0	0	0	17	0	0	0
	6	0	1	0	0	15	0	0	0
	7	0	0	1	0	16	0	0	0
	8	0	0	0	0	15	0	0	0
	9	0	0	0	0	2	0	0	0
	10	0	0	0	0	0	0	0	0
	11	0	0	1	0	0	0	0	0
	12	0	0	0	0	0	0	0	0
Unit Subtotal		1	1	2	1	107	1	0	0

Table 3 (Cont'd)

Unit	Level	Ceramics	Diagnostic Points	Nondiagnostic Chipped Lithic Tools	Ground Stone	Lithic Manufacturing Debris	Thermally Altered Rocks	Fauna/Flora	Carbon Sample
5	1	0	0	0	0	11	0	0	0
	2	0	0	0	0	19	0	0	0
	3	0	0	0	1	42	0	0	0
	4	0	0	0	0	56	1	0	0
	5	0	0	0	0	30	0	0	0
	6	0	0	0	0	17	0	0	0
	7	0	1	0	0	8	0	0	0
	8	0	0	0	0	5	0	0	0
	9	0	0	0	0	0	0	0	0
	10	0	0	0	0	0	0	0	0
	11	0	0	0	0	0	0	0	0
	12	0	0	0	0	0	0	0	0
Unit Subtotal		0	1	0	1	188	1	0	0
Group Subtotal		8	3	6	2	582	8	0	2
Test Unit 6-7 Group									
6	1	0	0	0	0	0	0	0	0
	2	0	0	0	0	5	0	0	0
	3	0	0	0	0	4	0	0	0
	4	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0
	6	0	1	0	0	0	0	0	0
	7	0	0	0	0	3	0	0	0
	8	0	0	0	0	2	0	0	0
	9	0	0	0	0	0	0	0	0
	10	0	0	0	0	3	0	0	0
	11	0	0	0	0	1	0	0	0
	12	0	0	0	0	1	0	0	0
	13	0	0	0	0	0	0	0	0
Unit Subtotal		0	1	0	0	19	0	0	0

Table 3 (Cont'd)

Unit	Level	Ceramics	Diagnostic Points	Nondiagnostic Chipped Lithic Tools	Ground Stone	Lithic Manufacturing Debris	Thermally Altered Rocks	Fauna/Flora	Carbon Sample
7	1	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0
	3	2	0	0	0	7	0	0	0
	4	0	0	0	0	5	0	0	0
	5	0	0	0	0	2	0	0	0
	6	2	0	0	0	2	1	0	0
	7	0	0	0	0	4	0	0	0
	8	0	0	0	0	1	0	0	0
	9	0	0	0	0	0	0	0	0
	10	0	0	0	0	0	0	0	0
Unit Subtotal		4	0	0	0	21	1	0	0
Group Totals		4	1	0	0	40	1	0	0
Test Unit 8-9 Group									
8	1	0	0	0	0	2	0	0	0
	2	0	0	0	0	7	1	0	0
	3	0	0	0	0	7	1	0	0
	4	0	0	0	0	7	0	0	0
	5	0	0	0	0	7	2	0	0
	6	0	0	0	0	3	0	0	0
	7	2	0	0	0	7	0	0	0
	8	1	0	0	0	5	0	0	0
	9	1	0	0	0	5	0	0	0
	10	0	0	0	0	1	0	0	0
	11	0	0	0	0	5	0	0	0
	12	0	0	0	0	6	0	0	0
	13	0	0	0	0	0	0	0	0
Unit Subtotal		4	0	0	0	62	4	0	0

Table 3 (Cont'd)

Unit	Level	Ceramics	Diagnostic Points	Nondiagnostic Chipped Lithic Tools	Ground Stone	Lithic Manufacturing Debris	Thermally Altered Rocks	Fauna/Flora	Carbon Sample
9	1	0	0	0	0	4	0	0	0
	2	0	0	0	0	14	0	0	0
	3	0	0	0	0	5	0	0	0
	4	0	0	0	0	4	0	0	0
	5	0	0	0	0	1	0	0	0
	6	0	0	0	0	4	0	0	0
	7	0	0	0	0	0	0	0	0
	8	0	0	0	0	3	0	0	0
	9	0	0	0	0	2	0	0	0
	10	0	0	0	0	4	0	0	0
	11	0	0	0	0	0	0	0	0
Unit Subtotal		0	0	0	0	41	0	0	0
Group Total		4	0	0	0	103	4	0	0
Site Total		16	4	6	2	725	13	0	2

exhibiting compact to loose, sandy loam over loose sand with hematite and manganese inclusions, underlain by a zone of loose sandy loam.

Units 8 and 9 exhibited a relatively even distribution of material throughout the culture-bearing zone. Unit 8 contained 61 pieces of nondiagnostic lithic debitage, 1 core, 4 prehistoric ceramic sherds, and 4 pieces of thermally altered hematitic sandstone. Unit 9 contained 41 pieces of nondiagnostic lithic debitage. The artifacts were relatively evenly distributed between about 10 and 120 cmbs in Unit 8 and between about 10 and 100 cmbs in Unit 9.

LITHIC ANALYSIS

The artifact assemblage recovered during testing at site 41SM385 includes 765 stone artifacts, including 12 tools, 1 core, and 752 debitage fragments (Appendix B). The most common artifactual raw material type is silicified wood, accounting for 36.0 percent of the assemblage (n = 277), followed closely by metaquartzite, accounting for 37.1 percent of the assemblage (n = 283). Chert is the third most common material, accounting for 21.1 percentage of the total (n = 161).

Orthoquartzite accounts for 4.7 percent of the assemblage (n = 36), hematitic sandstone accounts for 0.8 percent (n = 6), and novaculite accounts for 0.3 percent (n = 2).

The debitage includes 35 primary flakes, accounting for 4.7 percent of the debitage assemblage, 335 secondary flakes (44.5 percent), 375 tertiary flakes (49.9 percent), 3 corticated chips (0.4 percent), 4 decorticated chips (0.5 percent), and 1 core (0.1 percent).

Chipped Stones

Chipped stone tools recovered from the investigation include one small Kent dart point, two small Gary dart points, one unidentified dart point, three biface fragments, two unifacially modified flakes, and one utilized flakes (Table 4). These artifacts are described below.

Table 4: Summary of Chipped Lithic Tools Recovered in NRHP Testing of Site 41SM385

Unit No.	Level	Depth (cmbd)	Lot No.	FS No.	Material	Tool Type
1	2	20–30	29.1	53	chert	unifacially modified flake
1	4	40–50	31.1	56	metaquartzite	biface proximal fragment
1	9	90–100	92.1	117	chert	small Gary dart point
2	3	30–40	36.18	31	silicified wood	biface proximal fragment, probable point stem
3	8	90–100	98.1	129	chert	unifacially modified flake
4	6	60–70	60.1	66	chert	small unidentified dart point missing base
4	7	70–80	61.1	69	metaquartzite	biface distal fragment, probable point stem
4	11	110–120	103	125	chert	utilized flake
5	7	80–90	104.1	126	chert	small Kent dart point
6	6	60–70	70	104	metaquartzite	small Gary dart point

Projectile Points

Lot 70 is a Gary dart point manufactured from metaquartzite that has been thermally altered. The artifact has a very small triangular-shaped body, contracting stem, convex basal edge, small but distinct shoulders, and relatively straight lateral margins (Figure 12a). The distal tip has been resharpened, and the dart point currently is 21.8 millimeters (mm) long, 15.5 mm wide, and 5.9 mm thick. The tip is slightly polished, suggesting usage against a soft material. The artifact is generally consistent with the Hobson variety of the Gary type proposed by Johnson (1962:162–163).



a) Lot 70
Reworked Gary Dart Point
Metaquartzite



b) Lot 92.1
Reworked Gary Dart Point
Chert



c) Lot 104.1
Reworked Kent Dart Point
Chert



d) Lot 60.1
Untyped Dart Point Fragment
Chert



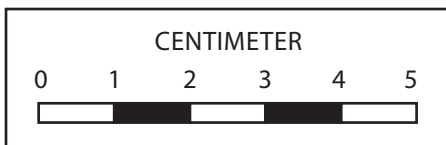
e) Lot 31.1
Biface Fragment
Metaquartzite



f) Lot 36.18
Biface Fragment
Silicified Wood



g) Lot 61.1
Biface Fragment
Metaquartzite



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Figure 12

SITE 41SM385
FORMAL LITHIC TOOLS

Lot 92.1 is a Gary dart point manufactured from a medium-grained chert. The artifact has a very small triangular-shaped body, contracting stem, convex basal edge, small but distinct shoulders, and relatively straight lateral margins (Figure 12b). The distal tip has been resharpener, and the artifact is currently 24.2 mm long, 14.9 mm wide, and 6.4 mm thick. The artifact is generally consistent with the Hobson variety of the Gary type proposed by Johnson (1962:162–163).

Lot 104.1 is a Kent dart point manufactured from a medium-grained chert. The artifact has a triangular-shaped body, short contracting stem, convex basal edge, weak shoulders, and slightly convex lateral margins (Figure 12c). The tip and lateral margins of the artifact appear to have been reworked. The artifact is currently 30.1 mm long, 13.3 mm wide, and 7.4 mm thick.

Lot 60.1 is a dart point of an unidentified type. It is manufactured from a medium-grained chert with many inclusions. The artifact has a prominent medial ridge on both faces, well-thinned, concave lateral margins, and distinct shoulders (Figure 12d). The stem is missing. The tip and lateral margins of the artifact appear to have been reworked. The artifact is currently 25.4 mm long, 17.0 mm wide, and 7.1 mm thick. The general morphology of the artifact is consistent with the Gary point type, but in the absence of the stem, identification is speculative. Pronounced wear to the lateral margins near the tip suggests that the artifact was used as a perforator.

Bifaces

Lot 31.1 appears to be a basal fragment of a large, relatively thin preform or knife manufactured from thermally altered metaquartzite (Figure 12e). The artifact is currently 21.2 mm long, 22.7 mm wide, and 7.8 mm thick. There is slight edge rounding on one lateral edge suggestive of lateral utilization against a soft material such as cutting.

Lot 36.18 appears to be a basal fragment of a dart point manufactured from silicified wood (Figure 12f), possibly a manufacturing failure. The artifact is currently 12.1 mm long, 9.2 mm wide, and 3.6 mm thick. No evidence of utilization is present.

Lot 61.1 appears to be a distal fragment, possibly a projectile point stem or barb or a perforator. It is manufactured from metaquartzite (Figure 12g). The artifact is currently 16.1 mm long, 8.8 mm wide, and 4.7 mm thick. There is edge rounding on the lateral margins, suggestive of use as a perforator. The artifact has been thermally altered, most likely after manufacture.

Unifacially Modified and Utilized Flakes

Three artifacts are flakes or fragments that exhibit minimal cultural modification and/or utilization (lots 29.1, 98.1, 103). All were manufactured from chert. Evidence of utilization was generally slight and suggestive of short-term usage against soft or medium material.

The small percentage of formal tools other than projectile points suggests that site 41SM385 likely represents a series of short-term encampments associated with nonspecific resource procurement

activities. The small Gary and Kent dart points are characteristic of the Woodland period in this region, suggesting a substantial Woodland component at the site.

Ground Stones

Ground and battered stone tools are generalized tools in the sense that a single tool may not be functionally specific with regard to the manner in which it is used or the things it is used to process or prepare. To systematically classify these tools, it is important to use well-defined criteria for recognizing their diverse nature and possible function. Since a variety of processes can produce distinctive wear, tools were assigned to specific analytical categories on the basis of several key variables: the mechanical processes, the outcome of those processes, and the material being processed. Microscopic examination of each tool aided in the identification of the key mechanical processes and the subsequent wear patterns still visible on the tool. Because any specific tool can be used in a range of activities, multifunctional tools were categorized on the basis of the predominant type of wear still visible on the tool.

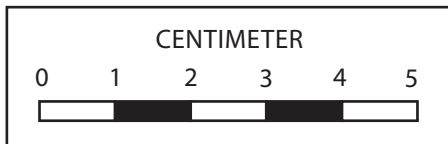
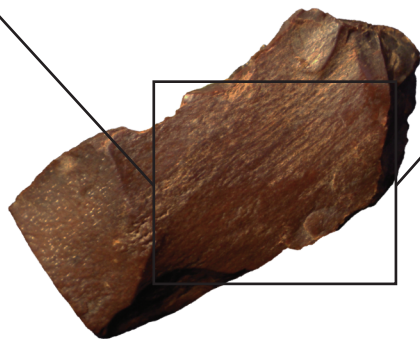
Two ground and battered stone artifacts were recovered from 41SM385, both of which are fragments of once larger tools. Although postdepositional erosion has affected the stones, remnants of wear patterns are still visible on each tool. Examination under 10x power binocular magnification revealed five types of wear: grinding, polishing, pecking, grooving, and striations. Based on the observed wear patterns, both tools fit within the morphological category of abraders. The general morphology and associated wear patterns observed on the two tools generally indicates abrasive use on softer material such as wood, bone, and/or fiber.

Specimen 56.3 is a small edge fragment from a silicified wood abradar recovered from Unit 4, Level 2. This very thin fragment weighs 0.42 grams (g) and is 30.1 mm long and 21.0 mm wide. Wear occurs along one edge and one plane surface. Several curved grooves emanate from the worked edge and crosscut the grain surface. Remnants of several closely spaced grooves follow the grain, and there are areas of polish atop and around the high-relief areas.

Specimen 64.26 is a fragment of a silicified wood abradar recovered from Unit 5, Level 3. The highly fractured fragment weighs 60.6 g and measures 52.6 mm long and 36.9 mm wide. Only a portion of the tool's worn end and side remains. In these areas, the stone exhibits a distinctive polish on its flattened end and side. Small multidirectional striations are visible across all surfaces, and pecking occurs in a small localized area on the flattened end (Figure 13).

CERAMIC ANALYSIS

The following is a discussion of the 18 prehistoric ceramic sherds recovered during testing conducted at 41SM385 in Smith County.



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Figure 13
SILICIFIED WOOD ABRADER FRAGMENT
(LOT 64.26) WITH CLOSE-UP OF
WEAR PATTERN ON ONE FACE

Analytical Methods

Analysis of the recovered ceramics focused primarily on their technological aspects and the observable modes that would aid in more-detailed classification. When whole vessels or sherds large enough to exhibit overall design motifs are present in the assemblage, typological classifications are possible. In the absence of whole vessels or vessel sections large enough to discern typologically distinct decorative motifs, one way to distinguish subtle differences between relatively similar ceramics is to look at the technological variations found on individual sherds (see Brown 1998; Lechtman 1977; Rice 1987; Rye 1981). Research indicates that for Caddo potters, variations in key technological attributes such as temper, surface treatment, and thickness bear a direct relationship to the desired use of the pot (see Perttula 2000, 2004, 2009a, 2009b; Rogers and Perttula 2004). Thus, sherds recovered from the site were characterized according to a suite of key technological attributes.

The analysis proceeded in two phases. The first phase involved an initial sort. All 18 sherds in the assemblage were examined in order to identify those that could be conjoined or confidently be determined to be part of the same vessel (i.e., fitters). During the initial sort, 8 sherds could be matched with other sherds. After fitters were identified, one undecorated body sherd with a maximum dimension of less than 2 cm was counted then culled from further analysis, leaving a total of 9 sherds in the analyzed sample (Figure 14).

The second phase involved a detailed analysis of technological attributes. All sherds in the analyzed sample were examined with respect to several key attributes (for detailed discussions of the analytical methods and definitions of the individual attributes, see Brown 1998; Ellis 1992, 1995; Perttula 2004; Phillips 1970). The technological attributes recorded for each sherd in the analyzed sample included (1) paste constituency (i.e., identification of the type of nonplastic inclusions [i.e., sand, bone, grog]), the predominant size range of nonplastic inclusions [i.e., medium sand, fine sand, very fine sand], and texture; (2) exterior and interior surface treatment; (3) exterior and interior decorative treatment; (4) morphological class (i.e., body, base, or rim); (5) average thickness; and (6) firing environment (i.e., oxidizing vs. nonoxidizing). Each of these attributes provides information about technological variability enabling finer-grained distinctions, which in turn allow the analyst to more fully characterize the assemblage even in the absence of identifiable types, thereby providing a basis for placing the ceramics within a broader regional ceramic context.

Description of Ceramics

Microscopic examination of freshly broken cross sections revealed two paste groups (Table 5). The basic paste fabric of each sherd in the sample started with very fine to silty clay to which varying combinations of nonplastic inclusions had been added. The presence of specific sets of tempering agents determined group designations, with bone and/or grog being the primary designators. The



a) Lot 75.1
Bone-tempered
Plainware Rim Sherd



b) Lot 59.14
Bone-tempered
Plainware Body Sherd



c) Lot 25
Bone-and-grog-tempered
Plainware Body Sherd



d) Lot 112.8
Bone-and-grog-tempered
Plainware Body Sherd



e) Lot 112.9
Brushed
Body Sherd



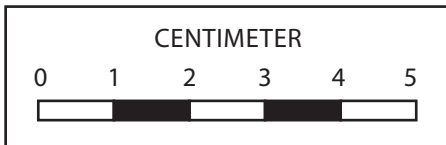
f) Lot 113.5
Brushed Ceramic



g) Lot 72.6
Bone-and-grog-tempered
Decorated Body Sherd



h) Lot 20
Bone-and-grog-tempered
Plainware Lower Body Sherd



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Figure 14
SITE 41SM385
PREHISTORIC CERAMICS

Table 5: Ceramic Attributes

Lot No.	Unit No.	ST No.	Level	Depth (cmbs)	Depth (cmbs)	Class	Paste	Paste Texture	Exterior Surface	Interior Surface	Exterior Decoration	Interior Decoration	Decorative Motif	Average Thickness (mm)	Firing Conditions	Bulk Organic Carbon Date (2 Sigma)
20		43	7	65		Lower Body	Bone, grog, and crushed hematite in a silty paste	Irregular	Dry-smoothed, Unburnished	Dry-smoothed, Unburnished	None	None	None	9.2	Partially Oxidized	–
25		50	4	35		Body	Bone, grog, and larger sized sand grains in a silty paste	Irregular	Red Floated, Unburnished	Floated, Unburnished	None	None	None	8.5	Partially Reduced	A.D. 990–1160
41.1	3		1		10–19	Body	Bone, grog, and larger sized sand grains in a very fine sandy paste	Irregular	Dry-smoothed, Unburnished	Weathered	None	None	None	6.1	Reduced	A.D. 250– 430
59.14	4		5		50–60	Body	Bone, crushed hematite, and larger sized sand grains in a silty paste	Irregular	Floated, Unburnished	Weathered	None	None	None	5.8	Partially Oxidized	–
72.6	7		3		30–40	Body	Bone, grog, and larger sized sand grains in a silty paste	Irregular	Dry-smoothed, Unburnished	Weathered	Wide incised lines	None	Remnants of 2 wide, vertical incised lines	–	Oxidized	–
75.1	7		6		60–70	Plain Rim	Bone in a silty paste	Irregular	Weathered	Weathered	None	None	None	5.4	Reduced	A.D. 1300–1370 and A.D. 1380–1430
112.8	8		7		70–80	Body	Bone, grog, and crushed hematite in a silty paste	Irregular	Red Floated, Unburnished	Weathered	None	None	None	4.9	Partially Reduced	–
112.9	8		7		70–80	Decorated Body	Bone and grog in a silty paste	Irregular	Floated, Unburnished	Dry-smoothed, Unburnished	Brushed	None	Diagonal brushing	4.3	Reduced	–
113.5	8		8		80–90	Decorated Body	Bone, grog, and crushed hematite in a silty paste	Irregular	Floated, Unburnished	Floated, Unburnished	Brushed	None	Overlapping brushing	4.5	Partially Oxidized	A.D. 1040–1240

sherds assigned to Group 1 (n = 2) had been tempered with crushed bone, crushed hematite, and/or larger sized sand grains (see Figure 14a–b). The sherds in Group 2 (n = 7) had been tempered with grog, bone, larger sized sand grains, and/or crushed hematite (see Figure 14c–i). Paste textures for the sherds in both groups were irregular (i.e., an uneven appearance due to the large inclusions added to the paste).

The exterior and/or interior surfaces of five sherds were too weathered to determine their original surface finish; however, three finishing techniques were still observable (see Table 5). Three sherds had one or more dry-smoothed surfaces. Five sherds had one or more floated surfaces. On two of those, a red pigment had been added to the water used to float the surface (see Figure 14c–d). None of the sherds had been burnished.

Three body sherds (33 percent) exhibited the remnants of at least one decorative element on their exterior surfaces (see Table 5; see Figure 14e–g). Two brushed sherds (lots 112.9 and 113.5; see Figure 14e–f) were recovered from Unit 8. One sherd (Lot 72.6; see Figure 14g), recovered from Unit 7, had the remnants of two wide, vertical incised lines; however, the sherd was too small to discern an overall design motif.

The sample included four undecorated body sherds, three decorated body sherds, one lower body sherd, and one undecorated rim. Based on the observed technological attributes, the nine sherds probably represent the remains of at least six different vessels. Sherd thickness was variable on each sherd. The body sherds ranged in thickness from 4.3 mm to 8.5 mm, with an average thickness of 5.683 mm \pm 1.552 mm. The thickest section of the lower body sherd measured 9.2 mm. The rim sherd measured 5.4 mm in thickness along the edge opposite the lip edge. This undecorated rim was direct in profile and had been rounded flat along the lip edge. Determining vessel form was difficult given the size of the sherds; however, one of the body sherds (Lot 112.8) is a shoulder fragment suggesting the presence of at least one jar.

Based on the overall coloration and the presence or absence of a firing core, the majority of sherds had been fired in a reducing (n = 3) or partially reducing (n = 2) environment. This suggests that the vessels represented by the recovered sherds had been fired under variable less-controlled conditions.

Summary

Although the small sample size makes it difficult to draw specific conclusions about the 41SM385 ceramic assemblage, the technological attributes noted on the majority of the sherds is relatively consistent with ceramic assemblages found at Early to Middle Caddo sites throughout the region (see Perttula 2001, 2004; Perttula and Nelson 2004a, 2004b; Rogers and Perttula 2004). The sherds are relatively thin and the decorative techniques are those commonly found on Caddo ceramics. The overall distribution of paste categories and the heavy representation of sherds with bone and

bone-and-grog temper with irregular paste textures also point to Caddo-made ceramics. Three of the four bulk carbon-dated sherds indicate Early to Middle Caddo occupations (see Table 5).

Interestingly, one of the bulk carbon-dated sherds (Lot 41.1; see Figure 14i) yielded a Woodland period date of A.D. 250–430 (Appendix C, Beta 28822). Although this particular sherd had a rather distinctive appearance, it did not fit the sorting criteria associated with Woodland period ceramics in that it was relatively thin and lacked the contorted or laminated pastes normally associated with these earlier-aged ceramics (see Table 5). There are two obvious possibilities for the age range of this sherd. Carbon in the clay needs to have been "recently living" at the time of manufacture and firing in order for the date to reflect the ceramic's period of use since the radiocarbon date represents the date of death of the organism from which the carbon was derived. So, if the clay used to manufacture the pot was taken from a stratigraphically early deposit and the carbon in the clay wasn't completely oxidized away, the radiocarbon date would yield a date that is closer in age to the deposition of the clay than it would be to the actual use of the pot (Darden Hood, personal communication 2010). Alternatively, if the clay was pulled from recent deposits at the time of manufacture and firing, and the only carbon present in it was "recent death" material) then firing would not matter and radiometric dating would yield a date representative of the period of use. If the date is correct and this sherd was in fact, manufactured during the Woodland period, then this illustrates the need for more-consistent sorting criteria for Woodland period ceramics.

THERMALLY ALTERED ROCK ANALYSIS

Fourteen specimens of fire-cracked or burned rock were recovered during NRHP testing investigations at site 41SM385. They include nine pieces of hematitic sandstone, two pieces of metaquartzite, and one each of chert, silicified wood, and hematite (Table 6). The specimens were recovered from between 10 and 90 cmbs, with one from Level 2, one from Level 3, three from Level 4, four from Level 5, four from Level 6, and one from Level 10. Eight of the specimens were from the area of artifact concentration sampled by units 1–5, one was from Shovel Test 23, one was from Unit 7, and four were from Unit 8.

FAUNAL AND FLORAL REMAINS

No vertebrate faunal remains or shell were recovered during the NRHP testing investigations at site 41SM385. Two small carbon samples were recovered from Unit 1, Level 8 (70–80 cmbs), and Unit 2, Level 9 (80–90 cmbs). Both appeared to be small, isolated charred wood fragments. Neither sample was viewed as being in an intact cultural context, so they were not subjected to further analysis. No burned nutshells, seeds, or other organic remains were recovered during the investigation.

Table 6: Thermally Altered Rock Analysis

Lot No.	Unit No.	ST No.	Level	Depth (cmbs)	Depth (cmbd)	Provenience	Northing	Easting	No. of Specimens	Era/ Phase	Artifact Material	Use Context	Artifact Description	Artifact Sub-description	Artifact Form/ Condition
13		23	10	90–100			75	50	1	Unknown	Silicified Wood	Unknown	Fire-cracked Rocks	na	Fragment
32.10	1		5	50–60			77	51	1	Unknown	Hematitic Sandstone	Unknown	Burned Rock	na	Fragment
33.8	1		6	60–70			77	51	1	Unknown	Chert	Unknown	Fire-cracked Rocks	Shatter	Fragment
33.9	1		6	60–70			77	51	1	Unknown	Hematite	Unknown	Burned Rock	na	Fragment
37.12	2		4	40–50			77	49	1	Unknown	Hematitic Sandstone	Unknown	Burned Rock	na	Fragment
38.9	2		5	50–60			77	49	1	Unknown	Hematitic Sandstone	Unknown	Burned Rock	na	Fragment
51.17	3		6	60–70			76	50	1	Unknown	Hematitic Sandstone	Unknown	Burned Rock	na	Fragment
58.9	4		4	40–50			75	49	1	Unknown	Hematitic Sandstone	Unknown	Burned Rock	na	Fragment
65.27	5		4	50–60			74	50	1	Unknown	Metaquartzite	Unknown	Fire-cracked Rocks	Shatter	Fragment
76.3	7		6	60–70			67	59	1	Unknown	Hematitic Sandstone	Unknown	Burned Rock	na	Fragment
79	8		2	20–30	NW Corner		55	57	1	Unknown	Hematitic Sandstone	Unknown	Burned Rock	na	Fragment
80.8	8		3	30–40			55	57	1	Unknown	Hematitic Sandstone	Unknown	Burned Rock	na	Fragment
83.8	8		5	50–60			55	57	1	Unknown	Metaquartzite	Unknown	Fire-cracked Rocks	Shatter	Fragment
83.9	8		5	50–60			55	57	1	Unknown	Hematitic Sandstone	Unknown	Burned Rock	na	Fragment

RADIOCARBON DATING ANALYSIS

Four samples consisting of prehistoric ceramic sherds recovered during the NRHP testing investigations at site 41SM385 were selected for radiocarbon dating analysis and were submitted to Beta Analytic Inc. of Miami, Florida, for AMS dating.

Radiocarbon analysis of sample SM385-1 (Lot 25, see Figure 14c) recovered from Shovel Test 50, Level 4 (35 cmbs) resulted in a measured radiocarbon age of 1000 ± 40 B.P. with a 2-sigma calibration of A.D. 990 to 1160 (Cal B.P. 960 to 790) (Appendix C, Beta-28821).

Radiocarbon analysis of sample SM385-2 (Lot 41.1, see Figure 14i) recovered from Test Unit 3, Level 1 (0–10 cmbs) resulted in a measured radiocarbon age of 1630 ± 40 B.P. with a 2-sigma calibration of A.D. 250 to 430 (Cal B.P. 1700 to 1520) (Appendix C, Beta-28822).

Radiocarbon analysis of sample SM385-3 (Lot 113.5, see Figure 14f) recovered from Test Unit 8, Level 6 (60–70 cmbs) resulted in a measured radiocarbon age of 900 ± 40 B.P. with a 2-sigma calibration of A.D. 1040 to 1240 (Cal B.P. 920 to 700) (Appendix C, Beta-28824).

Radiocarbon analysis of sample SM385-4 (Lot 75.1, see Figure 14a) recovered from Test Unit 7, Level 7 (70–80 cmbs) resulted in a measured radiocarbon age of 580 ± 40 B.P. with a 2-sigma calibration of A.D. 1300 to 1370 (Cal B.P. 650 to 580) and Cal A.D. 1380 to 1430 (Cal B.P. 570 to 520) (Appendix C, Beta-28823).

Samples SM385-1, 3, and 4 produced dates within the Early-Middle Caddo period. Sample SM385-2 produced a date within the middle part of the Woodland period.

VI. CONCLUSIONS AND RECOMMENDATIONS

Site 41SM385 appears to represent a Woodland- and Caddo-aged occupation on a small rise on the Indian Creek floodplain. The Woodland component is consistent with the Mill Creek Woodland culture (Black and Story 2003; Rogers et al. 2001) based on several characteristics including the paucity of ceramics and the small, less intensively utilized campsite occupation, compared with the Fourche Maline or Mossy Grove Woodland cultures, as well as the presence of small Gary and Kent projectile points. The Caddo component is based on ceramic sherds of probable Early or Middle Caddo origin identified at the site. The lack of identified cultural features suggests that the Woodland component probably represents a series of ephemeral usage of the location, probably as short-term campsites. The Caddo-aged artifacts at the site probably represent a series of ephemeral usage of the location, either as a resource procurement locus ancillary to nearby site 41SM404 or as a short-term campsite. The absence of cultural features and the paucity of lithic tools or ceramic remains make any more-specific functional interpretation infeasible.

While site 41SM385 is in the proposed ROW, it has been fenced to avoid construction impacts and is no longer in the project APE. No impacts to the site from the proposed project are anticipated.

Site 41SM385 is not thought to be eligible for listing in the NRHP (36 CFR 800.16[i] and 36 CFR 800.4(c)) or inclusion as a SAL (13 TAC §26.8(1)(2)) for the following reasons. No discrete cultural deposits or cultural features were located during the investigation. Artifacts are generally evenly distributed over a wide vertical range with no clear vertical areas of substantially greater or lesser artifact density. The presence of both Woodland and Caddo occupations at the site without distinct spatial separation indicates that no discrete cultural components could be identified. This also precludes the potential for meaningful dating of occupations or gaining data on subsistence activities associated with these occupations. This site does not have the potential to yield any significant amount of additional data with more-extensive investigation. Therefore, no further investigation is recommended.

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Appendix A

**Specimen Inventory
(on CD)**

Appendix A: Specimen Inventory for 41SM385

Lot No.	FS No.	Feature	Unit		Depth (cmbd)	Depth (cmbd)	Providence	Northing	Easting	Lithic		Prehistoric Ceramic	Thermally Altered Rock		Soil Sample	Carbon Sample	Carbon (g)	Particle Size Sample	Magnetic Susceptibility Sample	Other
			No.	ST No.						Non Tool	Lithic Tool		Thermally Altered Rock	Thermally Altered Rock (g)						
1	19		10	3	20-30		85	60	1											
2	18		16	4	30-40		80	55	1											
3	1		18	4	30-40		80	45	1											
4	8		19	7	60-70		80	40	1											
5	20		21	4	30-40		75	60	1											
6	5		22	4	30-40		75	55	1											
7	9		23	3	20-30		75	50	1											
8	10		23	4	30-40		75	50	2											
9	11		23	6	50-60		75	50	1											
10	12		23	7	60-70		75	50	1											
11	13		23	8	70-80		75	50	1											
12	14		23	9	80-90		75	50	1											
13	15		23	10	90-100		75	50				1	0.72							
14	22		24	7	65-70		75	45	3											
15	23		41	6	50-60		55	70	1											
16	24		41	8	70-80		55	70	1											
17	25		41	10	90-100		55	70	1											
18	43		42	8	70-80		55	65	1											
19	6		43	4	30-40		55	60	2											
20	7		43	7	65		55	60			1									
21	16		44	4	30-40		55	55	1											
22	17		44	9	80-90		55	55	1											
23	44		49	7	60-70		50	55	1											
24	45		49	9	80-90		50	55	1											
25	4		50	4	35		50	50			1									
26	3		51	6	60		45	60	1											
27	2		54	8	75		40	60	1											
28	49	1		1	9-20		77	51	2											
29	53	1		2	20-30		77	51		1										
29	53	1		2	20-30		77	51	23											
30	55	1		3	30-40		77	51	11											
31	56	1		4	40-50		77	51		1										
31	57	1		4	40-50		77	51	9											
32	62	1		5	50-60		77	51	12											
32	63	1		5	50-60		77	51			1	80.41								
33	64	1		6	60-70		77	51			1	1.53								
33	64	1		6	60-70		77	51	9											
33	65	1		6	60-70		77	51			1	31.25								
34	68	1		7	70-79		77	51	6											
35	29	2		2	19-30		77	49	3											
36	31	2		3	30-40		77	49		1										
36	31	2		3	30-40		77	49	24											
37	33	2		4	40-50		77	49	17											
37	40	2		4	40-50		77	49			1	89.31								
38	41	2		5	50-60		77	49	8											
38	42	2		5	50-60		77	49			1	89.21								
39	46	2		6	60-70		77	49	11											
40	103	2		7	70-80		77	49	13											

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Lot No.	FS No.	Feature	Unit		Depth (cmbs)	Depth (cmbd)	Proviencie	Northing	Easting	Lithic		Prehistoric Ceramic	Thermally Altered Rock		Soil Sample	Carbon Sample	Carbon (g)	Particle Size Sample	Magnetic Susceptibility Sample	Other
			No.	ST No.						Non Tool	Lithic Tool		Thermally Altered Rock	Thermally Altered Rock (g)						
41	26		3		1	10-19		76	50			7								
42	35		3		1	10-19 SW Corner		76	50						1					
43	28		3		2	19-30		76	50	10										
44	36		3		2	19-30 SW Corner		76	50						1					
45	30		3		3	30-40		76	50	14										
46	37		3		3	30-40 SW Corner		76	50						1					
47	32		3		4	40-50		76	50	19										
48	38		3		4	40-50 SW Corner		76	50						1					
49	34		3		5	50-60		76	50	6										
50	39		3		5	50-60 SW Corner		76	50						1					
51	47		3		6	60-70		76	50	22										
51	48		3		6	60-70		76	50				1	62.11						
52	51		3		6	60-70 SW Corner		76	50						1					
53	101		3		7	70-80		76	50	17										
54	102		3		7	70-80 SW Corner		76	50						1					
55	50		4		1	12-20		75	49	1										
56	52		4		2	20-30		75	49		1									
56	52		4		2	20-30		75	49	2										
57	54		4		3	30-40		75	49	25										
58	58		4		4	40-50		75	49	14										
58	59		4		4	40-50		75	49				1	29.54						
59	61		4		5	50-60		75	49	17										
59	61		4		5	50-60		75	49			1								
60	66		4		6	60-70		75	49		1									
60	67		4		6	60-70		75	49	15										
61	69		4		7	70-80		75	49		1									
61	70		4		7	70-80		75	49	16										
62	94		5		1	0-30		74	50	11										
63	95		5		2	30-40		75	50	19										
64	96		5		3	40-50		74	50	42										
64	97		5		3	40-50		74	50		1									
65	98		5		4	50-60		74	50				1	2.32						
65	98		5		4	50-60		74	50	56										
66	99		5		5	60-70		74	50	30										
67	100		5		6	70-80		74	50	17										
68	85		6		2	20-30		67	62.5	5										
69	86		6		3	30-40		67	62.5	4										
70	104		6		6	60-70 SE Corner		67	62.5		1									
71	105		6		7	70-80		67	62.5	3										
72	87		7		3	30-40		67	59			2								
72	88		7		3	30-40		67	59	7										
73	89		7		4	40-50		67	59	5										
74	90		7		5	50-60		67	59	2										
75	91		7		6	60-70		67	59			2								
76	92		7		6	60-70		67	59				1	128.19						
76	93		7		6	60-70		67	59	2										
77	71		8		1	7-20		55	57	2										
78	73		8		2	20-30		55	57	7										

Appendix A: Specimen Inventory for 41SM385

Lot No.	FS No.	Feature	Unit		Depth (cmbd)	Depth (cmbs)	Proviencie	Northing	Easting	Lithic		Prehistoric Ceramic	Thermally Altered Rock	Thermally Altered Rock (g)	Soil Sample	Carbon Sample	Carbon (g)	Particle Size Sample	Magnetic Susceptibility Sample	Other
			No.	ST No.						Non Tool	Lithic Tool									
79	74		8	2	20-30	NW Corner	55	57					1	71.62						
80	75		8	3	30-40		55	57	7											
80	76		8	3	30-40		55	57					1	147.12						
81	79		8	4	40-50		55	57	6											
82	80		8	4	40-50	SE Corner	55	57	1											
83	82		8	5	50-60		55	57						474.49						
83	83		8	5	50-60		55	57					2	2.94						
83	83		8	5	50-60		55	57	7											
84	106		8	6	60-70		55	57	3											
85	72		9	1	8-20		54	56	4											
86	77		9	2	20-30		54	56	14											
87	78		9	3	30-40		54	56	5											
88	81		9	4	40-50		54	56	4											
89	84		9	5	50-60		54	56	1											
90	107		9	6	60-70		54	56	4											
91	115		1	8	79-90		77	51	12											
91	115		1	8	79-90		77	51								1	1.57			
92	117		1	9	90-100		77	51		1										
92	117		1	9	90-100		77	51						13.67						
92	117		1	9	90-100		77	51	5											
93	119		1	10	100-110		77	51	1											
94	116		2	8	80-90		77	49	10											
95	118		2	9	90-100		77	49	5											
95	118		2	9	90-100		77	49								1	0.84			
96	120		2	10	100-110		77	49	2											
97	128		3	8	80-90		76	50	11											
98	129		3	9	90-100		76	50		1										
98	129		3	9	90-100		76	50	1											
99	130		3	10	100-110		76	50	3											
100	131		3	11	110-120		76	50	1											
101	123		4	8	80-90		75	49	15											
101	123		4	8	80-90		75	49						8.66						
102	124		4	9	90-100		75	49	2											
103	125		4	11	110-120		75	49		1										
104	126		5	7	80-90		74	50		1										
104	126		5	7	80-90		74	50						3.61						
104	126		5	7	80-90		74	50	8											
105	127		5	8	90-100		74	50	5											
106	132		6	8	80-90		67	62.5	2											
107	133		6	10	100-110		67	62.5	3											
108	134		6	11	110-120		67	62.5	1											
109	135		6	12	120-130		67	62.5	1											
110	136		7	7	70-80		67	59	4											
111	137		7	8	80-90		67	59	1											
112	108		8	7	70-80		55	57	7											
112	108		8	7	70-80		55	57			2									
112	108		8	7	70-80		55	57						136.15						
113	110		8	8	80-90		55	57	5											

Appendix A: Specimen Inventory for 41SM385

Lot No.	FS No.	Feature	Unit		Depth (cmbd)	Depth (cmbd)	Providence	Northing	Easting	Lithic		Prehistoric Ceramic	Thermally Altered Rock			Soil Sample	Carbon Sample	Carbon (g)	Particle Size Sample	Magnetic Susceptibility Sample	Other
			No.	ST No.						Non Tool	Lithic Tool		Thermally Altered Rock	Altered Rock (g)							
113	110		8		8	80-90		55	57			1									
113	110		8		8	80-90		55	57				86.02								
114	113		8		9	90-100		55	57	5											
114	113		8		9	90-100		55	57			1									
115	114		8		10	100-110		55	57	1											
116	121		8		11	110-120		55	57	5											
117	122		8		12	120-130		55	57	6											
118	109		9		8	80-90		54	56	3											
119	111		9		9	90-100		54	56	2											
120	112		9		10	100-110		54	56	4											
121	138		4		1	10	North Wall												1		
121	150		4		1	10	North Wall													1	
122	139		4		2	20	North Wall												1		
122	151		4		2	20	North Wall													1	
123	140		4		3	30	North Wall												1		
123	152		4		3	30	North Wall													1	
124	141		4		4	40	North Wall												1		
124	153		4		4	40	North Wall													1	
125	142		4		5	50	North Wall												1		
125	154		4		5	50	North Wall													1	
126	143		4		6	60	North Wall												1		
126	155		4		6	60	North Wall													1	
127	144		4		7	70	North Wall												1		
127	156		4		7	70	North Wall													1	
128	145		4		8	80	North Wall												1		
128	157		4		8	80	North Wall													1	
129	146		4		9	90	North Wall												1		
129	158		4		9	90	North Wall													1	
130	147		4		10	100	North Wall												1		
130	159		4		10	100	North Wall													1	
131	148		4		11	110	North Wall												1		
131	160		4		11	110	North Wall													1	
132	149		4		12	120	North Wall												1		
132	161		4		12	120	North Wall													1	
133	162		8		1	10	North Wall												1		
133	175		8		1	10	North Wall													1	
134	163		8		2	20	North Wall												1		
134	176		8		2	20	North Wall													1	
135	164		8		3	30	North Wall												1		
135	177		8		3	30	North Wall													1	
136	165		8		4	40	North Wall												1		
136	178		8		4	40	North Wall													1	
137	166		8		5	50	North Wall												1		
137	179		8		5	50	North Wall													1	
138	167		8		6	60	North Wall												1		
138	180		8		6	60	North Wall													1	
139	168		8		7	70	North Wall												1		
139	181		8		7	70	North Wall													1	

Appendix A: Specimen Inventory for 41SM385

Lot No.	FS No.	Feature	Unit		Depth (cmts)	Depth (cmbd)	Proviencie	Northing	Easting	Lithic		Prehistoric Ceramic	Thermally Altered Rock			Soil Sample	Carbon Sample	Carbon (g)	Particle Size Sample	Magnetic Susceptibility Sample	Other
			No.	ST No.						Non Tool	Lithic Tool		Thermally Altered Rock	Altered Rock (g)							
140	169		8		8														1		
140	182		8		8																1
141	170		8		9														1		
141	183		8		9																1
142	171		8		10														1		
142	184		8		10																1
143	172		8		11														1		
143	185		8		11																1
144	173		8		12														1		
144	186		8		12																1
145	174		8		13														1		
145	187		8		13																1
146	188		T4A		1																1
146	202		T4A		1														1		
147	189		T4A		2																1
147	203		T4A		2														1		
148	190		T4A		3																1
148	204		T4A		3														1		
149	191		T4A		4																1
149	205		T4A		4														1		
150	192		T4A		5																1
150	206		T4A		5														1		
151	193		T4A		6																1
151	207		T4A		6														1		
152	194		T4A		7																1
152	208		T4A		7														1		
153	195		T4A		8																1
153	209		T4A		8														1		
154	196		T4A		9																1
154	210		T4A		9														1		
155	197		T4A		10																1
155	211		T4A		10														1		
156	198		T4A		11																1
156	212		T4A		11														1		
157	199		T4A		12																1
157	213		T4A		12														1		
158	200		T4A		13																1
158	214		T4A		13														1		
159	201		T4A		14																1
159	215		T4A		14														1		
-	21			21	8				75	60											1 (Noncultural)
-	27		3		2				76	50											
-	60		4		5				75	49											1 (Noncultural)

Appendix B

Lithic Analysis (on CD)

Appendix B: Lithic Analysis for 41SM385

Lot No.	FS No.	Unit No.	ST No.	Level	Depth (cmb)	Depth (cmbd)	Proviencie	Northing	Easting	No. of Specimens	Time Period	Era/ Phase	Artifact Material	Use Context	Artifact Description	Artifact Sub-description	Artifact Form/Condition	Surface Treatment	Comments	Weight in grams	Length in mm	Width in mm	Thickness in mm
1	19		10	3	20-30			85	60	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Complete	na	na	na	na	na	na
2	18		16	4	30-40			80	55	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Medial Fragment	na	na	na	na	na	na
3	1		18	4	30-40			80	45	1		Prehistoric	Metaquartzite	Unknown	Debitage	Primary Flake	Proximal Fragment	na	na	na	na	na	na
4	8		19	7	60-70			80	40	1		Prehistoric	Orthoquartzite	Unknown	Debitage	Secondary Flake	Complete	Thermally Altered	na	na	na	na	na
5	20		21	4	30-40			75	60	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Distal Fragment	na	na	na	na	na	na
6	5		22	4	30-40			75	55	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na
7	9		23	3	20-30			75	50	1		Prehistoric	Orthoquartzite	Unknown	Debitage	Tertiary Flake	Distal Fragment	na	na	na	na	na	na
8.1	10		23	4	30-40			75	50	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na
8.2	10		23	4	30-40			75	50	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na
9	11		23	6	50-60			75	50	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Complete	na	na	na	na	na	na
10	12		23	7	60-70			75	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Complete	na	na	na	na	na	na
11	13		23	8	70-80			75	50	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na
12	14		23	9	80-90			75	50	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na
14.1	22		24	7	65-70			75	45	1		Prehistoric	Orthoquartzite	Unknown	Debitage	Secondary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na
14.2	22		24	7	65-70			75	45	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na
14.3	22		24	7	65-70			75	45	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na
15	23		41	6	50-60			55	70	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Medial Fragment	na	na	na	na	na	na
16	24		41	8	70-80			55	70	1		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Complete	na	na	na	na	na	na
17	25		41	10	90-100			55	70	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Distal Fragment	na	na	na	na	na	na
18	43		42	8	70-80			55	65	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Proximal Fragment	na	Bifacial Thinning Flake	na	na	na	na
19.1	6		43	4	30-40			55	60	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na
19.2	6		43	4	30-40			55	60	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Distal Fragment	na	na	na	na	na	na
21	16		44	4	30-40			55	55	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Proximal Fragment	na	na	na	na	na	na
22	17		44	9	80-90			55	55	1		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Medial Fragment	na	na	na	na	na	na
23	44		49	7	60-70			50	55	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na
24	45		49	9	80-90			50	55	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Complete	Thermally Altered	na	na	na	na	na
26	3		51	6	60			45	60	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na

Appendix B: Lithic Analysis for 41SM385

Lot No.	FS No.	Unit No.	ST No.	Level	Depth (cmbs)	Depth (cmbd)	Providence	Northing	Easting	No. of Specimens	Time Period	Era/ Phase	Artifact Material	Use Context	Artifact Description	Artifact Sub-description	Artifact Form/Condition	Surface Treatment	Comments	Weight in grams	Length in mm	Width in mm	Thickness in mm	
27	2		54	8	75			40	60	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Distal Fragment	na	na	na	na	na	na	na
28.1	49	1		1		9-20		77	51	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Medial Fragment	na	na	na	na	na	na	na
28.2	49	1		1		9-20		77	51	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na	na
29.10	53	1		2		20-30		77	51	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Distal Fragment	na	na	na	na	na	na	na
29.1	53	1		2		20-30		77	51	1		Prehistoric	Chert	Unknown	Unifacially Modified Flake	Secondary Flake	Distal Fragment	Thermally Altered	Unifacially modified along concave distal edge (6.63 mm), modified edge utilized on medium soft material for planing activities; unifacially modified along straight lateral edge (7.81 mm), modified edge utilized on medium hard material for sawing activities	1.13	16.20	18.17	5.59	
29.11	53	1		2		20-30		77	51	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Medial Fragment	na	na	na	na	na	na	na
29.12	53	1		2		20-30		77	51	2		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na	na
29.13	53	1		2		20-30		77	51	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Distal Fragment	na	na	na	na	na	na	na
29.14	53	1		2		20-30		77	51	1		Prehistoric	Hematitic Sandstone	Unknown	Debitage	Secondary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na	na
29.2	53	1		2		20-30		77	51	1		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na	na
29.3	53	1		2		20-30		77	51	3		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na	na
29.4	53	1		2		20-30		77	51	4		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na	na
29.5	53	1		2		20-30		77	51	3		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na	na
29.6	53	1		2		20-30		77	51	1		Prehistoric	Orthoquartzite	Unknown	Debitage	Tertiary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na	na
29.7	53	1		2		20-30		77	51	2		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na	na
29.8	53	1		2		20-30		77	51	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na	na
29.9	53	1		2		20-30		77	51	2		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na	na
30.1	55	1		3		30-40		77	51	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na	na
30.2	55	1		3		30-40		77	51	1		Prehistoric	Orthoquartzite	Unknown	Debitage	Secondary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na	na
30.3	55	1		3		30-40		77	51	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Complete	Thermally Altered	na	na	na	na	na	na
30.4	55	1		3		30-40		77	51	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Complete	na	na	na	na	na	na	na
30.5	55	1		3		30-40		77	51	1		Prehistoric	Orthoquartzite	Unknown	Debitage	Tertiary Flake	Complete	Thermally Altered	na	na	na	na	na	na
30.6	55	1		3		30-40		77	51	2		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na	na

Appendix B: Lithic Analysis for 41SM385

Lot No.	FS No.	Unit No.	ST No.	Level	Depth (cmbs)	Depth (cmbd)	Providence	Northing	Easting	No. of Specimens	Time Period	Era/ Phase	Artifact Material	Use Context	Artifact Description	Artifact Sub-description	Artifact Form/Condition	Surface Treatment	Comments	Weight in grams	Length in mm	Width in mm	Thickness in mm
30.7	55	1		3		30-40		77	51	2		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na
30.8	55	1		3		30-40		77	51	2		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Proximal Fragment	na	na	na	na	na	na
31.1	56	1		4		40-50		77	51	1		Prehistoric	Metaquartzite	Unknown	Biface	na	Proximal Fragment	Thermally Altered	No stage or shape given due to fragmentary nature, large flake thinning along central axis, well thinned along remaining lateral and proximal edges, no cortex remaining, evidence of battering along lateral edge (13.12 mm), evidence of utilization on recurved lateral edge (11.01 mm) on soft material for cutting activities, specimen broken at material flaw	3.66	21.18	22.65	7.75
31.2	57	1		4		40-50		77	51	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Proximal Fragment	na	na	na	na	na	na
31.3	57	1		4		40-50		77	51	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na
31.4	57	1		4		40-50		77	51	1		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Medial Fragment	na	na	na	na	na	na
31.5	57	1		4		40-50		77	51	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na
31.6	57	1		4		40-50		77	51	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na
31.7	57	1		4		40-50		77	51	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Proximal Fragment	na	na	na	na	na	na
31.8	57	1		4		40-50		77	51	2		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Complete	na	na	na	na	na	na
31.9	57	1		4		40-50		77	51	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na
32.1	62	1		5		50-60		77	51	1		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Distal Fragment	na	na	na	na	na	na
32.11	62	1		5		50-60		77	51	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na
32.12	62	1		5		50-60		77	51	1		Prehistoric	Orthoquartzite	Unknown	Debitage	Secondary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na
32.2	62	1		5		50-60		77	51	1		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na
32.3	62	1		5		50-60		77	51	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na
32.4	62	1		5		50-60		77	51	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na
32.5	62	1		5		50-60		77	51	1		Prehistoric	Orthoquartzite	Unknown	Debitage	Tertiary Flake	Distal Fragment	na	na	na	na	na	na
32.6	62	1		5		50-60		77	51	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Distal Fragment	na					
32.7	62	1		5		50-60		77	51	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na
32.8	62	1		5		50-60		77	51	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Complete	Thermally Altered	na	na	na	na	na

Appendix B: Lithic Analysis for 41SM385

Lot No.	FS No.	Unit No.	ST No.	Level	Depth (cmb)	Depth (cmbd)	Proviencie	Northing	Easting	No. of Specimens	Time Period	Era/ Phase	Artifact Material	Use Context	Artifact Description	Artifact Sub-description	Artifact Form/Condition	Surface Treatment	Comments	Weight in grams	Length in mm	Width in mm	Thickness in mm
32.9	62	1		5		50-60		77	51	2		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na
33.1	64	1		6		60-70		77	51	2		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na
33.2	64	1		6		60-70		77	51	2		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na
33.3	64	1		6		60-70		77	51	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na
33.4	64	1		6		60-70		77	51	1		Prehistoric	Orthoquartzite	Unknown	Debitage	Tertiary Flake	Complete	Thermally Altered	na	na	na	na	na
33.5	64	1		6		60-70		77	51	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na
33.6	64	1		6		60-70		77	51	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Medial Fragment	na	na	na	na	na	na
33.7	64	1		6		60-70		77	51	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na
34.1	68	1		7		70-79		77	51	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Complete	Thermally Altered	na	na	na	na	na
34.2	68	1		7		70-79		77	51	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na
34.3	68	1		7		70-79		77	51	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na
34.4	68	1		7		70-79		77	51	2		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na
34.5	68	1		7		70-79		77	51	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na
35.1	29	2		2		19-30		77	49	1		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Distal Fragment	na	na	na	na	na	na
35.2	29	2		2		19-30		77	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Primary Flake	Complete	Thermally Altered	na	na	na	na	na
35.3	29	2		2		19-30		77	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Complete	Thermally Altered	na	na	na	na	na
36.1	31	2		3		30-40		77	49	1		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Proximal Fragment	na	na	na	na	na	na
36.10	31	2		3		30-40		77	49	2		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Medial Fragment	na	na	na	na	na	na
36.11	31	2		3		30-40		77	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na
36.12	31	2		3		30-40		77	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na
36.13	31	2		3		30-40		77	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Medial Fragment	na	na	na	na	na	na
36.14	31	2		3		30-40		77	49	2		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na
36.15	31	2		3		30-40		77	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Proximal Fragment	na	na	na	na	na	na
36.16	31	2		3		30-40		77	49	2		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Distal Fragment	na	na	na	na	na	na
36.17	31	2		3		30-40		77	49	1		Prehistoric	Hematitic Sandstone	Unknown	Debitage	Tertiary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na

Appendix B: Lithic Analysis for 41SM385

Lot No.	FS No.	Unit No.	ST No.	Level	Depth (cmbs)	Depth (cmbd)	Proviencie	Northing	Easting	No. of Specimens	Time Period	Era/ Phase	Artifact Material	Use Context	Artifact Description	Artifact Sub-description	Artifact Form/Condition	Surface Treatment	Comments	Weight in grams	Length in mm	Width in mm	Thickness in mm	
36.18	31	2		3		30-40		77	49	1		Prehistoric	Silicified Wood	Unknown	Biface	na	Proximal Fragment	na	No stage or shape given due to fragmentary nature, rounded proximal edge, expanding lateral edges, well thinned along remaining proximal and lateral edges, evidence of battering along proximal-lateral edge (5.90 mm), poor quality material	0.37	12.11	9.21	3.64	
36.2	31	2		3		30-40		77	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Distal Fragment	na	na	na	na	na	na	na
36.3	31	2		3		30-40		77	49	3		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na
36.4	31	2		3		30-40		77	49	3		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na
36.5	31	2		3		30-40		77	49	1		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na	na
36.6	31	2		3		30-40		77	49	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na	na
36.7	31	2		3		30-40		77	49	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Proximal Fragment	na	na	na	na	na	na	na
36.8	31	2		3		30-40		77	49	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Medial Fragment	na	na	na	na	na	na	na
36.9	31	2		3		30-40		77	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Proximal Fragment	na	na	na	na	na	na	na
37.1	33	2		4		40-50		77	49	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Complete	Thermally Altered	na	na	na	na	na	na
37.10	33	2		4		40-50		77	49	5		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Medial Fragment	na	na	na	na	na	na	na
37.11	33	2		4		40-50		77	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na	na
37.12	33	2		4		40-50		77	49	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na	na
37.2	33	2		4		40-50		77	49	1		Prehistoric	Metaquartzite	Unknown	Debitage	Primary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na
37.3	33	2		4		40-50		77	49	1		Prehistoric	Orthoquartzite	Unknown	Debitage	Secondary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na	na
37.4	33	2		4		40-50		77	49	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Distal Fragment	na	na	na	na	na	na	na
37.5	33	2		4		40-50		77	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Proximal Fragment	na	na	na	na	na	na	na
37.6	33	2		4		40-50		77	49	2		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na
37.7	33	2		4		40-50		77	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na	na
37.8	33	2		4		40-50		77	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Distal Fragment	na	na	na	na	na	na	na
37.9	33	2		4		40-50		77	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na	na
38.1	42	2		5		50-60		77	49	1		Prehistoric	Chert	Unknown	Debitage	Primary Flake	Complete	na	na	na	na	na	na	na
38.2	42	2		5		50-60		77	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Complete	na	na	na	na	na	na	na

Appendix B: Lithic Analysis for 41SM385

Lot No.	FS No.	Unit No.	ST No.	Level	Depth (cmbs)	Depth (cmbd)	Proviencie	Northing	Easting	No. of Specimens	Time Period	Era/ Phase	Artifact Material	Use Context	Artifact Description	Artifact Sub-description	Artifact Form/Condition	Surface Treatment	Comments	Weight in grams	Length in mm	Width in mm	Thickness in mm	
38.3	42	2		5		50-60		77	49	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Proximal Fragment	na	na	na	na	na	na	na
38.4	42	2		5		50-60		77	49	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na	na
38.5	42	2		5		50-60		77	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Primary Flake	Proximal Fragment	na	na	na	na	na	na	na
38.6	42	2		5		50-60		77	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na	na
38.7	42	2		5		50-60		77	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Proximal Fragment	na	na	na	na	na	na	na
38.8	42	2		5		50-60		77	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na	na
39.1	46	2		6		60-70		77	49	1		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na	na
39.10	46	2		6		60-70		77	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Medial Fragment	na	na	na	na	na	na	na
39.11	46	2		6		60-70		77	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Proximal Fragment	na	na	na	na	na	na	na
39.2	46	2		6		60-70		77	49	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Complete	na	na	na	na	na	na	na
39.3	46	2		6		60-70		77	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na	na
39.4	46	2		6		60-70		77	49	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Complete	na	na	na	na	na	na	na
39.5	46	2		6		60-70		77	49	1		Prehistoric	Metaquartzite	Unknown	Debitage	Primary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na	na
39.6	46	2		6		60-70		77	49	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na	na
39.7	46	2		6		60-70		77	49	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na	na
39.8	46	2		6		60-70		77	49	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na	na
39.9	46	2		6		60-70		77	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Complete	na	na	na	na	na	na	na
40.1	103	2		7		70-80		77	49	1		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Medial Fragment	na	na	na	na	na	na	na
40.10	103	2		7		70-80		77	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Distal Fragment	na	na	na	na	na	na	na
40.11	103	2		7		70-80		77	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na	na
40.2	103	2		7		70-80		77	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Distal Fragment	na	na	na	na	na	na	na
40.3	103	2		7		70-80		77	49	1		Prehistoric	Metaquartzite	Unknown	Debitage	Primary Flake	Complete	Thermally Altered	na	na	na	na	na	na
40.4	103	2		7		70-80		77	49	2		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na
40.5	103	2		7		70-80		77	49	2		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na	na
40.6	103	2		7		70-80		77	49	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na	na
40.7	103	2		7		70-80		77	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Proximal Fragment	na	na	na	na	na	na	na
40.8	103	2		7		70-80		77	49	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Proximal Fragment	na	na	na	na	na	na	na

Appendix B: Lithic Analysis for 41SM385

Lot No.	FS No.	Unit No.	ST No.	Level	Depth (cmbs)	Depth (cmbd)	Proviencie	Northing	Easting	No. of Specimens	Time Period	Era/ Phase	Artifact Material	Use Context	Artifact Description	Artifact Sub-description	Artifact Form/Condition	Surface Treatment	Comments	Weight in grams	Length in mm	Width in mm	Thickness in mm	
40.9	103	2		7		70-80		77	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Medial Fragment	na	na	na	na	na	na	na
43.1	28	3		2		19-30		76	50	1		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na	na
43.2	28	3		2		19-30		76	50	2		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na	na
43.3	28	3		2		19-30		76	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Proximal Fragment	na	na	na	na	na	na	na
43.4	28	3		2		19-30		76	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Complete	Thermally Altered	na	na	na	na	na	na
43.5	28	3		2		19-30		76	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Distal Fragment	na	na	na	na	na	na	na
43.6	28	3		2		19-30		76	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Proximal Fragment	na	na	na	na	na	na	na
43.7	28	3		2		19-30		76	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na
43.8	28	3		2		19-30		76	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Medial Fragment	na	na	na	na	na	na	na
43.9	28	3		2		19-30		76	50	1		Prehistoric	Orthoquartzite	Unknown	Debitage	Secondary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na	na
45.1	30	3		3		30-40		76	50	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Distal Fragment	na	na	na	na	na	na	na
45.2	30	3		3		30-40		76	50	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Complete	Thermally Altered	na	na	na	na	na	na
45.3	30	3		3		30-40		76	50	3		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na
45.5	30	3		3		30-40		76	50	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na	na
45.6	30	3		3		30-40		76	50	3		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na	na
45.7	30	3		3		30-40		76	50	1		Prehistoric	Orthoquartzite	Unknown	Debitage	Tertiary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na	na
45.8	30	3		3		30-40		76	50	3		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na	na
45.9	30	3		3		30-40		76	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Complete	na	na	na	na	na	na	na
47.1	32	3		4		40-50		76	50	1		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Complete	na	na	na	na	na	na	na
47.10	32	3		4		40-50		76	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Complete	na	na	na	na	na	na	na
47.11	32	3		4		40-50		76	50	2		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Proximal Fragment	na	na	na	na	na	na	na
47.12	32	3		4		40-50		76	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Medial Fragment	na	na	na	na	na	na	na
47.13	32	3		4		40-50		76	50	3		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Distal Fragment	na	na	na	na	na	na	na
47.14	32	3		4		40-50		76	50	1		Prehistoric	Hematitic Sandstone	Unknown	Debitage	Secondary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na	na
47.2	32	3		4		40-50		76	50	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na
47.3	32	3		4		40-50		76	50	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na	na
47.4	32	3		4		40-50		76	50	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Medial Fragment	na	na	na	na	na	na	na

Appendix B: Lithic Analysis for 41SM385

Lot No.	FS No.	Unit No.	ST No.	Level	Depth (cmb)	Depth (cmbd)	Proviencie	Northing	Easting	No. of Specimens	Time Period	Era/ Phase	Artifact Material	Use Context	Artifact Description	Artifact Sub-description	Artifact Form/Condition	Surface Treatment	Comments	Weight in grams	Length in mm	Width in mm	Thickness in mm	
47.5	32	3		4		40-50		76	50	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Complete	Thermally Altered	na	na	na	na	na	
47.6	32	3		4		40-50		76	50	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Distal Fragment	na	na	na	na	na	na	na
47.7	32	3		4		40-50		76	50	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Proximal Fragment	na	na	na	na	na	na	na
47.8	32	3		4		40-50		76	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na
47.9	32	3		4		40-50		76	50	3		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Distal Fragment	na	na	na	na	na	na	na
49.1	34	3		5		50-60		76	50	1		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Complete	Thermally Altered	na	na	na	na	na	na
49.2	34	3		5		50-60		76	50	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na	na
49.3	34	3		5		50-60		76	50	1		Prehistoric	Metaquartzite	Unknown	Debitage	Chip	Corticated	Thermally Altered	na	na	na	na	na	na
49.4	34	3		5		50-60		76	50	2		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na
49.5	34	3		5		50-60		76	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Complete	na	na	na	na	na	na	na
51.1	47	3		6		60-70		76	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Complete	na	na	na	na	na	na	na
51.10	47	3		6		60-70		76	50	1		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Proximal Fragment	na	na	na	na	na	na	na
51.11	47	3		6		60-70		76	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na
51.13	47	3		6		60-70		76	50	2		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Medial Fragment	na	na	na	na	na	na	na
51.14	47	3		6		60-70		76	50	2		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Medial Fragment	na	na	na	na	na	na	na
51.15	47	3		6		60-70		76	50	2		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Distal Fragment	na	na	na	na	na	na	na
51.16	47	3		6		60-70		76	50	1		Prehistoric	Hematitic Sandstone	Unknown	Debitage	Secondary Flake	Distal Fragment	na	na	na	na	na	na	na
51.18	48	3		6		60-70		76	50	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na
51.19	48	3		6		60-70		76	50	1		Prehistoric	Orthoquartzite	Unknown	Debitage	Tertiary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na	na
51.2	47	3		6		60-70		76	50	1		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na
51.3	47	3		6		60-70		76	50	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Distal Fragment	na	na	na	na	na	na	na
51.4	47	3		6		60-70		76	50	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na
51.5	47	3		6		60-70		76	50	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na	na
51.6	47	3		6		60-70		76	50	2		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na	na
51.7	47	3		6		60-70		76	50	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na	na
51.8	47	3		6		60-70		76	50	2		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na	na
51.9	47	3		6		60-70		76	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Proximal Fragment	na	na	na	na	na	na	na

Appendix B: Lithic Analysis for 41SM385

Lot No.	FS No.	Unit No.	ST No.	Level	Depth (cmbs)	Depth (cmbd)	Proviencie	Northing	Easting	No. of Specimens	Time Period	Era/ Phase	Artifact Material	Use Context	Artifact Description	Artifact Sub-description	Artifact Form/Condition	Surface Treatment	Comments	Weight in grams	Length in mm	Width in mm	Thickness in mm	
53.1	101	3		7		70-80		76	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Chip	Decorticated	Thermally Altered	na	na	na	na	na	
53.10	101	3		7		70-80		76	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Medial Fragment	na	na	na	na	na	na	na
53.11	101	3		7		70-80		76	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Medial Fragment	na	na	na	na	na	na	na
53.12	101	3		7		70-80		76	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na	na
53.13	101	3		7		70-80		76	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Medial Fragment	na	na	na	na	na	na	na
53.14	101	3		7		70-80		76	50	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na
53.15	101	3		7		70-80		76	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na
53.2	101	3		7		70-80		76	50	1		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Proximal Fragment	na	na	na	na	na	na	na
53.3	101	3		7		70-80		76	50	1		Prehistoric	Metaquartzite	Unknown	Debitage	Chip	Decorticated	Thermally Altered	na	na	na	na	na	na
53.4	101	3		7		70-80		76	50	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na	na
53.5	101	3		7		70-80		76	50	2		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na	na
53.6	101	3		7		70-80		76	50	1		Prehistoric	Orthoquartzite	Unknown	Debitage	Tertiary Flake	Proximal Fragment	na	na	na	na	na	na	na
53.7	101	3		7		70-80		76	50	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Medial Fragment	na	na	na	na	na	na	na
53.8	101	3		7		70-80		76	50	2		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na	na
53.9	101	3		7		70-80		76	50	1		Prehistoric	Orthoquartzite	Unknown	Debitage	Tertiary Flake	Distal Fragment	na	na	na	na	na	na	na
55	50	4		1		12-30		75	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na
56.1	52	4		2		20-30		75	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na
56.2	52	4		2		20-30		75	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na
56.3	52	4		2		20-30		75	49	1		Prehistoric	Silicified Wood	Unknown	Ground stone			na		0.42				na
57.10	54	4		3		30-40		75	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Complete	na	na	na	na	na	na	na
57.1	54	4		3		30-40		75	49	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Proximal Fragment	na	na	na	na	na	na	na
57.11	54	4		3		30-40		75	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Distal Fragment	na	na	na	na	na	na	na
57.12	54	4		3		30-40		75	49	2		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Distal Fragment	na	na	na	na	na	na	na
57.13	54	4		3		30-40		75	49	2		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Distal Fragment	na	na	na	na	na	na	na
57.14	54	4		3		30-40		75	49	1		Prehistoric	Hematitic Sandstone	Unknown	Debitage	Tertiary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na	na
57.15	54	4		3		30-40		75	49	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na
57.16	54	4		3		30-40		75	49	2		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na

Appendix B: Lithic Analysis for 41SM385

Lot No.	FS No.	Unit No.	ST No.	Level	Depth (cmbs)	Depth (cmbd)	Proviencie	Northing	Easting	No. of Specimens	Time Period	Era/ Phase	Artifact Material	Use Context	Artifact Description	Artifact Sub-description	Artifact Form/Condition	Surface Treatment	Comments	Weight in grams	Length in mm	Width in mm	Thickness in mm
57.17	54	4		3		30-40		75	49	2		Prehistoric	Orthoquartzite	Unknown	Debitage	Secondary Flake	Medial Fragment	Thermally Altered	na	na	na	na	
57.18	54	4		3		30-40		75	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Medial Fragment	na	na	na	na		
57.2	54	4		3		30-40		75	49	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Medial Fragment	na	na	na	na		
57.3	54	4		3		30-40		75	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Proximal Fragment	na	na	na	na		
57.4	54	4		3		30-40		75	49	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	
57.5	54	4		3		30-40		75	49	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Medial Fragment	Thermally Altered	na	na	na	na	
57.6	54	4		3		30-40		75	49	3		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Distal Fragment	Thermally Altered	na	na	na	na	
57.7	54	4		3		30-40		75	49	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Medial Fragment	Thermally Altered	na	na	na	na	
57.8	54	4		3		30-40		75	49	2		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Distal Fragment	Thermally Altered	na	na	na	na	
57.9	54	4		3		30-40		75	49	1		Prehistoric	Orthoquartzite	Unknown	Debitage	Secondary Flake	Medial Fragment	na	na	na	na		
58.1	58	4		4		40-50		75	49	6		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Medial Fragment	Thermally Altered	na	na	na	na	
58.10	59	4		4		40-50		75	49	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	
58.2	58	4		4		40-50		75	49	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Distal Fragment	Thermally Altered	na	na	na	na	
58.3	58	4		4		40-50		75	49	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Medial Fragment	Thermally Altered	na	na	na	na	
58.4	58	4		4		40-50		75	49	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Distal Fragment	Thermally Altered	na	na	na	na	
58.5	58	4		4		40-50		75	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Proximal Fragment	na	na	na	na		
58.6	58	4		4		40-50		75	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Complete	na	na	na	na		
58.7	58	4		4		40-50		75	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Complete	na	na	na	na		
58.8	58	4		4		40-50		75	49	1		Prehistoric	Hematitic Sandstone	Unknown	Debitage	Tertiary Flake	Medial Fragment	Thermally Altered	na	na	na	na	
59.1	61	4		5		50-60		75	49	1		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Distal Fragment	na	na	na	na		
59.10	61	4		5		50-60		75	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Medial Fragment	na	na	na	na		
59.11	61	4		5		50-60		75	49	1		Prehistoric	Orthoquartzite	Unknown	Debitage	Secondary Flake	Distal Fragment	Thermally Altered	na	na	na	na	
59.12	61	4		5		50-60		75	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	
59.13	61	4		5		50-60		75	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	
59.2	61	4		5		50-60		75	49	2		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	
59.3	61	4		5		50-60		75	49	2		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Medial Fragment	Thermally Altered	na	na	na	na	
59.4	61	4		5		50-60		75	49	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Distal Fragment	Thermally Altered	na	na	na	na	

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Lot No.	FS No.	Unit No.	ST No.	Level	Depth (cmbs)	Depth (cmbd)	Proviencie	Northing	Easting	No. of Specimens	Time Period	Era/ Phase	Artifact Material	Use Context	Artifact Description	Artifact Sub-description	Artifact Form/Condition	Surface Treatment	Comments	Weight in grams	Length in mm	Width in mm	Thickness in mm
59.5	61	4		5		50-60		75	49	3		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Medial Fragment	Thermally Altered	na	na	na	na	
59.6	61	4		5		50-60		75	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Medial Fragment	Thermally Altered	na	na	na	na	
59.7	61	4		5		50-60		75	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Medial Fragment	na	na	na	na	na	
59.8	61	4		5		50-60		75	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Distal Fragment	Thermally Altered	na	na	na	na	
59.9	61	4		5		50-60		75	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Distal Fragment	na	na	na	na	na	
60.1	66	4		6		60-70		75	49	1		Prehistoric	Chert	Unknown	Dart Point	Untyped	Distal Fragment	Thermally Altered	Reworked, basal edge missing, indistinct squared shoulders, slightly recurved lateral edges, medial ridge on both faces, well thinned across entirety of specimen, utilization as perforator on distal tip, poor material, many inclusions, very thick proximal-medial section	2.13	25.39	17.01	7.05
60.10	67	4		6		60-70		75	49	2		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Proximal Fragment	na	na	na	na	na	
60.11	67	4		6		60-70		75	49	1		Prehistoric	Orthoquartzite	Unknown	Debitage	Secondary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	
60.2	67	4		6		60-70		75	49	1		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Proximal Fragment	na	na	na	na	na	
60.3	67	4		6		60-70		75	49	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Distal Fragment	Thermally Altered	na	na	na	na	
60.4	67	4		6		60-70		75	49	3		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	
60.5	67	4		6		60-70		75	49	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Distal Fragment	Thermally Altered	na	na	na	na	
60.6	67	4		6		60-70		75	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Medial Fragment	Thermally Altered	na	na	na	na	
60.7	67	4		6		60-70		75	49	2		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Proximal Fragment	na	na	na	na	na	
60.8	67	4		6		60-70		75	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Distal Fragment	na	na	na	na	na	
60.9	67	4		6		60-70		75	49	2		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Medial Fragment	Thermally Altered	na	na	na	na	
61.1	69	4		7		70-80		75	49	1		Prehistoric	Metaquartzite	Unknown	Biface	na	Distal Fragment	Thermally Altered	No stage or shape given due to fragmentary nature, no cortex remaining, straight lateral edges, pointed distal tip, medial ridge on both faces, well thinned across entirety of specimen, slight battering on both lateral-distal edges, snap fracture	0.52	16.07	8.77	4.65
61.10	70	4		7		70-80		75	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Chip	Corticated	Thermally Altered	na	na	na	na	
61.11	70	4		7		70-80		75	49	2		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Medial Fragment	na	na	na	na	na	
61.12	70	4		7		70-80		75	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Distal Fragment	na	na	na	na	na	

Appendix B: Lithic Analysis for 41SM385

Lot No.	FS No.	Unit No.	ST No.	Level	Depth (cmbs)	Depth (cmbd)	Proviencie	Northing	Easting	No. of Specimens	Time Period	Era/ Phase	Artifact Material	Use Context	Artifact Description	Artifact Sub-description	Artifact Form/Condition	Surface Treatment	Comments	Weight in grams	Length in mm	Width in mm	Thickness in mm	
61.13	70	4		7		70-80		75	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Proximal Fragment	na	na	na	na	na	na	na
61.14	70	4		7		70-80		75	49	1		Prehistoric	Metaquartzite	Unknown	Debitage	Chip	Decorticated	Thermally Altered	na	na	na	na	na	na
61.2	70	4		7		70-80		75	49	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Complete	Thermally Altered	na	na	na	na	na	na
61.3	70	4		7		70-80		75	49	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na	na
61.4	70	4		7		70-80		75	49	2		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na
61.5	70	4		7		70-80		75	49	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Medial Fragment	na	na	na	na	na	na	na
61.6	70	4		7		70-80		75	49	2		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na	na
61.7	70	4		7		70-80		75	49	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Distal Fragment	na	na	na	na	na	na	na
61.8	70	4		7		70-80		75	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Proximal Fragment	na	na	na	na	na	na	na
61.9	70	4		7		70-80		75	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na
62.10	94	5		1		0-30		74	50	1		Prehistoric	Metaquartzite	Unknown	Debitage	Chip	Corticated	Thermally Altered	na	na	na	na	na	na
62.1	94	5		1		0-30		74	50	1		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Medial Fragment	na	na	na	na	na	na	na
62.11	94	5		1		0-30		74	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Proximal Fragment	na	na	na	na	na	na	na
62.2	94	5		1		0-30		74	50	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na
62.3	94	5		1		0-30		74	50	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na	na
62.4	94	5		1		0-30		74	50	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Complete	na	na	na	na	na	na	na
62.5	94	5		1		0-30		74	50	1		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na	na
62.6	94	5		1		0-30		74	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Distal Fragment	na	na	na	na	na	na	na
62.7	94	5		1		0-30		74	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Complete	na	na	na	na	na	na	na
62.8	94	5		1		0-30		74	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Medial Fragment	na	na	na	na	na	na	na
62.9	94	5		1		0-30		74	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Distal Fragment	na	na	na	na	na	na	na
63.1	95	5		2		30-40		74	50	2		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na
63.10	95	5		2		30-40		74	50	2		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Proximal Fragment	na	na	na	na	na	na	na
63.11	95	5		2		30-40		74	50	3		Prehistoric	Orthoquartzite	Unknown	Debitage	Secondary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na
63.12	95	5		2		30-40		74	50	1		Prehistoric	Orthoquartzite	Unknown	Debitage	Tertiary Flake	Proximal Fragment	na	na	na	na	na	na	na
63.2	95	5		2		30-40		74	50	3		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na	na
63.3	95	5		2		30-40		74	50	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na	na

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Lot No.	FS No.	Unit No.	ST No.	Level	Depth (cmbs)	Depth (cmbd)	Providence	Northing	Easting	No. of Specimens	Time Period	Era/ Phase	Artifact Material	Use Context	Artifact Description	Artifact Sub-description	Artifact Form/Condition	Surface Treatment	Comments	Weight in grams	Length in mm	Width in mm	Thickness in mm	
63.4	95	5		2		30-40		74	50	2		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Proximal Fragment	Thermally Altered		na	na	na	na	
63.5	95	5		2		30-40		74	50	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Proximal Fragment	na	na	na	na	na	na	na
63.6	95	5		2		30-40		74	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Medial Fragment	Thermally Altered		na	na	na	na	na
63.7	95	5		2		30-40		74	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Medial Fragment	na	na	na	na	na	na	na
63.8	95	5		2		30-40		74	50	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Proximal Fragment	na	na	na	na	na	na	na
63.9	95	5		2		30-40		74	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Complete	Thermally Altered		na	na	na	na	na
64.1	96	5		3		40-50		74	50	1		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Complete	na	na	na	na	na	na	na
64.10	96	5		3		40-50		74	50	1		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Distal Fragment	na	na	na	na	na	na	na
64.11	96	5		3		40-50		74	50	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Distal Fragment	na	na	na	na	na	na	na
64.12	96	5		3		40-50		74	50	2		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Medial Fragment	Thermally Altered		na	na	na	na	na
64.13	96	5		3		40-50		74	50	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Distal Fragment	Thermally Altered		na	na	na	na	na
64.14	96	5		3		40-50		74	50	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Distal Fragment	na	na	na	na	na	na	na
64.15	96	5		3		40-50		74	50	1		Prehistoric	Orthoquartzite	Unknown	Debitage	Tertiary Flake	Medial Fragment	na	na	na	na	na	na	na
64.16	96	5		3		40-50		74	50	2		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Proximal Fragment	Thermally Altered		na	na	na	na	na
64.17	96	5		3		40-50		74	50	2		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Medial Fragment	na	na	na	na	na	na	na
64.18	96	5		3		40-50		74	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Distal Fragment	Thermally Altered		na	na	na	na	na
64.19	96	5		3		40-50		74	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Distal Fragment	na	na	na	na	na	na	na
64.2	96	5		3		40-50		74	50	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Medial Fragment	Thermally Altered		na	na	na	na	na
64.20	96	5		3		40-50		74	50	2		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Proximal Fragment	na	na	na	na	na	na	na
64.21	96	5		3		40-50		74	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Medial Fragment	Thermally Altered		na	na	na	na	na
64.22	96	5		3		40-50		74	50	2		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Medial Fragment	na	na	na	na	na	na	na
64.23	96	5		3		40-50		74	50	3		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Distal Fragment	Thermally Altered		na	na	na	na	na
64.24	96	5		3		40-50		74	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Proximal Fragment	Thermally Altered		na	na	na	na	na
64.25	96	5		3		40-50		74	50	2		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Distal Fragment	na	na	na	na	na	na	na
64.26	97	5		3		40-50		74	50	1		Prehistoric	Silicified Wood	Unknown	Ground stone			Thermally Altered		60.60				na
64.27	97	5		3		40-50		74	50	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Complete	na	na	na	na	na	na	na
64.28	97	5		3		40-50		74	50	1		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Proximal Fragment	Thermally Altered		na	na	na	na	na

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Lot No.	FS No.	Unit No.	ST No.	Level	Depth (cmbs)	Depth (cmbd)	Proviencie	Northing	Easting	No. of Specimens	Time Period	Era/ Phase	Artifact Material	Use Context	Artifact Description	Artifact Sub-description	Artifact Form/Condition	Surface Treatment	Comments	Weight in grams	Length in mm	Width in mm	Thickness in mm	
64.29	97	5		3		40-50		74	50	1		Prehistoric	Orthoquartzite	Unknown	Debitage	Tertiary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na	
64.3	96	5		3		40-50		74	50	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Medial Fragment	na	na	na	na	na	na	na
64.30	97	5		3		40-50		74	50	1		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Proximal Fragment	na	na	na	na	na	na	na
64.4	96	5		3		40-50		74	50	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Distal Fragment	na	na	na	na	na	na	na
64.5	96	5		3		40-50		74	50	1		Prehistoric	Metaquartzite	Unknown	Debitage	Primary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na
64.6	96	5		3		40-50		74	50	1		Prehistoric	Metaquartzite	Unknown	Debitage	Primary Flake	Complete	na	na	na	na	na	na	na
64.7	96	5		3		40-50		74	50	3		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na
64.8	96	5		3		40-50		74	50	4		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na	na
64.9	96	5		3		40-50		74	50	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Medial Fragment	na	na	na	na	na	na	na
65.1	98	5		4		50-60		74	50	1		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Complete	Thermally Altered	na	na	na	na	na	na
65.10	98	5		4		50-60		74	50	2		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Distal Fragment	na	na	na	na	na	na	na
65.11	98	5		4		50-60		74	50	2		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na
65.12	98	5		4		50-60		74	50	4		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na	na
65.13	98	5		4		50-60		74	50	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Medial Fragment	na	na	na	na	na	na	na
65.14	98	5		4		50-60		74	50	2		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na	na
65.15	98	5		4		50-60		74	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Primary Flake	Proximal Fragment	na	na	na	na	na	na	na
65.16	98	5		4		50-60		74	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Primary Flake	Medial Fragment	na	na	na	na	na	na	na
65.17	98	5		4		50-60		74	50	4		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na
65.18	98	5		4		50-60		74	50	5		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Proximal Fragment	na	na	na	na	na	na	na
65.19	98	5		4		50-60		74	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na	na
65.2	98	5		4		50-60		74	50	1		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Proximal Fragment	na	na	na	na	na	na	na
65.20	98	5		4		50-60		74	50	3		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Medial Fragment	na	na	na	na	na	na	na
65.21	98	5		4		50-60		74	50	2		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na	na
65.22	98	5		4		50-60		74	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Distal Fragment	na	na	na	na	na	na	na
65.23	98	5		4		50-60		74	50	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Proximal Fragment	na	na	na	na	na	na	na
65.24	98	5		4		50-60		74	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Complete	na	na	na	na	na	na	na
65.25	98	5		4		50-60		74	50	3		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Medial Fragment	na	na	na	na	na	na	na

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Lot No.	FS No.	Unit No.	ST No.	Level	Depth (cmbs)	Depth (cmbd)	Proviencie	Northing	Easting	No. of Specimens	Time Period	Era/ Phase	Artifact Material	Use Context	Artifact Description	Artifact Sub-description	Artifact Form/Condition	Surface Treatment	Comments	Weight in grams	Length in mm	Width in mm	Thickness in mm	
65.26	98	5		4		50-60		74	50	2		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Distal Fragment	na	na	na	na	na	na	na
65.28	98	5		4		50-60		74	50	1		Prehistoric	Orthoquartzite	Unknown	Debitage	Secondary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na	na
65.29	98	5		4		50-60		74	50	1		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na
65.3	98	5		4		50-60		74	50	1		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na	na
65.30	98	5		4		50-60		74	50	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Complete	Thermally Altered	na	na	na	na	na	na
65.31	98	5		4		50-60		74	50	3		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Complete	na	na	na	na	na	na	na
65.4	98	5		4		50-60		74	50	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Complete	na	na	na	na	na	na	na
65.5	98	5		4		50-60		74	50	1		Prehistoric	Metaquartzite	Unknown	Debitage	Primary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na
65.6	98	5		4		50-60		74	50	1		Prehistoric	Metaquartzite	Unknown	Debitage	Primary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na	na
65.7	98	5		4		50-60		74	50	3		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na
65.8	98	5		4		50-60		74	50	2		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na	na
65.9	98	5		4		50-60		74	50	3		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na	na
66.1	99	5		5		60-70		74	50	1		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na	na
66.10	99	5		5		60-70		74	50	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Medial Fragment	na	na	na	na	na	na	na
66.11	99	5		5		60-70		74	50	1		Prehistoric	Orthoquartzite	Unknown	Debitage	Secondary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na	na
66.12	99	5		5		60-70		74	50	1		Prehistoric	Orthoquartzite	Unknown	Debitage	Tertiary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na	na
66.13	99	5		5		60-70		74	50	1		Prehistoric	Orthoquartzite	Unknown	Debitage	Tertiary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na	na
66.14	99	5		5		60-70		74	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na
66.15	99	5		5		60-70		74	50	2		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Medial Fragment	na	na	na	na	na	na	na
66.16	99	5		5		60-70		74	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Proximal Fragment	na	na	na	na	na	na	na
66.17	99	5		5		60-70		74	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Distal Fragment	na	na	na	na	na	na	na
66.18	99	5		5		60-70		74	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Complete	na	na	na	na	na	na	na
66.19	99	5		5		60-70		74	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na	na
66.2	99	5		5		60-70		74	50	1		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Distal Fragment	na	na	na	na	na	na	na
66.20	99	5		5		60-70		74	50	2		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na	na
66.21	99	5		5		60-70		74	50	2		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Distal Fragment	na	na	na	na	na	na	na
66.22	99	5		5		60-70		74	50	1		Prehistoric	Orthoquartzite	Unknown	Debitage	Secondary Flake	Proximal Fragment	na	na	na	na	na	na	na

Appendix B: Lithic Analysis for 41SM385

Lot No.	FS No.	Unit No.	ST No.	Level	Depth (cmbd)	Depth (cmbd)	Proviencie	Northing	Easting	No. of Specimens	Time Period	Era/ Phase	Artifact Material	Use Context	Artifact Description	Artifact Sub-description	Artifact Form/Condition	Surface Treatment	Comments	Weight in grams	Length in mm	Width in mm	Thickness in mm	
66.23	99	5		5		60-70		74	50	3		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Complete	na	na	na	na	na	na	na
66.24	99	5		5		60-70		74	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Medial Fragment	na	na	na	na	na	na	na
66.3	99	5		5		60-70		74	50	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na	na
66.4	99	5		5		60-70		74	50	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na
66.5	99	5		5		60-70		74	50	2		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na	na
66.6	99	5		5		60-70		74	50	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Proximal Fragment	na	na	na	na	na	na	na
66.7	99	5		5		60-70		74	50	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na	na
66.8	99	5		5		60-70		74	50	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na
66.9	99	5		5		60-70		74	50	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na	na
67.1	100	5		6		70-80		74	50	1		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na	na
67.10	100	5		6		70-80		74	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na
67.11	100	5		6		70-80		74	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Complete	na	na	na	na	na	na	na
67.12	100	5		6		70-80		74	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na	na
67.13	100	5		6		70-80		74	50	2		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Distal Fragment	na	na	na	na	na	na	na
67.14	100	5		6		70-80		74	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Proximal Fragment	na	na	na	na	na	na	na
67.15	100	5		6		70-80		74	50	2		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Medial Fragment	na	na	na	na	na	na	na
67.2	100	5		6		70-80		74	50	1		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na
67.3	100	5		6		70-80		74	50	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Complete	na	na	na	na	na	na	na
67.4	100	5		6		70-80		74	50	1		Prehistoric	Metaquartzite	Unknown	Debitage	Primary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na	na
67.5	100	5		6		70-80		74	50	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na
67.6	100	5		6		70-80		74	50	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Proximal Fragment	na	na	na	na	na	na	na
67.7	100	5		6		70-80		74	50	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na	na
67.8	100	5		6		70-80		74	50	1		Prehistoric	Orthoquartzite	Unknown	Debitage	Primary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na	na
67.9	100	5		6		70-80		74	50	1		Prehistoric	Orthoquartzite	Unknown	Debitage	Tertiary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na
68.1	85	6		2		20-30		67	62.5	1		Prehistoric	Chert	Unknown	Debitage	Primary Flake	Complete	Thermally Altered	na	na	na	na	na	na
68.2	85	6		2		20-30		67	62.5	2		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na	na
68.3	85	6		2		20-30		67	62.5	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Proximal Fragment	na	na	na	na	na	na	na

Appendix B: Lithic Analysis for 41SM385

Lot No.	FS No.	Unit No.	ST No.	Level	Depth (cmbs)	Depth (cmbd)	Proviencie	Northing	Easting	No. of Specimens	Time Period	Era/ Phase	Artifact Material	Use Context	Artifact Description	Artifact Sub-description	Artifact Form/Condition	Surface Treatment	Comments	Weight in grams	Length in mm	Width in mm	Thickness in mm
68.4	85	6		2		20-30		67	62.5	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na
69.1	86	6		3		30-40		67	62.5	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Complete	na	na	na	na	na	na
69.2	86	6		3		30-40		67	62.5	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Medial Fragment	na	na	na	na	na	na
69.3	86	6		3		30-40		67	62.5	1		Prehistoric	Orthoquartzite	Unknown	Debitage	Tertiary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na
69.4	86	6		3		30-40		67	62.5	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Medial Fragment	na	na	na	na	na	na
70	104	6		6		60-70	SE corner	67	62.5	1		Prehistoric	Metaquartzite	Unknown	Dart Point	Gary	Complete	Thermally Altered	Reworked, convex basal edge, expanding stem, small but distinct shoulders, very small triangular shaped body, straight lateral edges, well thinned across entirety of specimen, slight medial ridge on single face, stem is longer than body of specimen, high polish on distal tip indicative of use for perforation on a soft material	1.76	21.76	15.46	5.92
71.1	105	6		7		70-80		67	62.5	1		Prehistoric	Chert	Unknown	Debitage	Primary Flake	Proximal Fragment	na	na	na	na	na	na
71.2	105	6		7		70-80		67	62.5	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Distal Fragment	na	na	na	na	na	na
71.3	105	6		7		70-80		67	62.5	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Proximal Fragment	na	na	na	na	na	na
72.1	88	7		3		30-40		67	59	1		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na
72.2	88	7		3		30-40		67	59	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Complete	na	na	na	na	na	na
72.3	88	7		3		30-40		67	59	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na
72.4	88	7		3		30-40		67	59	3		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na
72.5	88	7		3		30-40		67	59	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na
73.1	89	7		4		40-50		67	59	2		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Proximal Fragment	na	na	na	na	na	na
73.2	89	7		4		40-50		67	59	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Complete	Thermally Altered	na	na	na	na	na
73.3	89	7		4		40-50		67	59	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Medial Fragment	na	na	na	na	na	na
73.4	89	7		4		40-50		67	59	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Distal Fragment	na	na	na	na	na	na
74.1	90	7		5		50-60		67	59	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na
74.2	90	7		5		50-60		67	59	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Medial Fragment	na	na	na	na	na	na
76.1	93	7		6		60-70		67	59	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Distal Fragment	na	na	na	na	na	na
76.2	93	7		6		60-70		67	59	1		Prehistoric	Novaculite	Unknown	Debitage	Tertiary Flake	Complete	na	na	na	na	na	na

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Lot No.	FS No.	Unit No.	ST No.	Level	Depth (cmb)	Depth (cmbd)	Providence	Northing	Easting	No. of Specimens	Time Period	Era/ Phase	Artifact Material	Use Context	Artifact Description	Artifact Sub-description	Artifact Form/Condition	Surface Treatment	Comments	Weight in grams	Length in mm	Width in mm	Thickness in mm	
77.1	71	8		1		9-20		55	57	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Complete	na	na	na	na	na	na	na
77.2	71	8		1		9-20		55	57	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Medial Fragment	na	na	na	na	na	na	na
78.1	73	8		2		20-30		55	57	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Proximal Fragment	na	na	na	na	na	na	na
78.2	73	8		2		20-30		55	57	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Distal Fragment	na	na	na	na	na	na	na
78.3	73	8		2		20-30		55	57	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na
78.4	73	8		2		20-30		55	57	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na	na
78.5	73	8		2		20-30		55	57	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Distal Fragment	na	na	na	na	na	na	na
78.6	73	8		2		20-30		55	57	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Proximal Fragment	na	na	na	na	na	na	na
78.7	73	8		2		20-30		55	57	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na	na
80.1	75	8		3		30-40		55	57	1		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na
80.2	75	8		3		30-40		55	57	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Medial Fragment	na	na	na	na	na	na	na
80.3	75	8		3		30-40		55	57	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Distal Fragment	na	na	na	na	na	na	na
80.4	75	8		3		30-40		55	57	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na	na
80.5	75	8		3		30-40		55	57	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Proximal Fragment	na	na	na	na	na	na	na
80.6	75	8		3		30-40		55	57	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na	na
80.7	75	8		3		30-40		55	57	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Proximal Fragment	na	na	na	na	na	na	na
81.1	79	8		4		40-50		55	57	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Complete	Thermally Altered	na	na	na	na	na	na
81.2	79	8		4		40-50		55	57	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na
81.3	79	8		4		40-50		55	57	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Proximal Fragment	na	na	na	na	na	na	na
81.4	79	8		4		40-50		55	57	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na
81.5	79	8		4		40-50		55	57	1		Prehistoric	Orthoquartzite	Unknown	Debitage	Tertiary Flake	Distal Fragment	na	na	na	na	na	na	na
81.6	79	8		4		40-50		55	57	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Complete	na	na	na	na	na	na	na
82	80	8		4		40-50	SE corner	55	57	1		Prehistoric	Chert	Unknown	Core	Multi-Directional	Fragment	na	7+ flakes removed, cortex remaining	20.76	na	na	na	na
83.1	83	8		5		50-60		55	57	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Complete	na	na	na	na	na	na	na
83.2	83	8		5		50-60		55	57	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na
83.3	83	8		5		50-60		55	57	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Complete	Thermally Altered	na	na	na	na	na	na
83.4	83	8		5		50-60		55	57	1		Prehistoric	Orthoquartzite	Unknown	Debitage	Tertiary Flake	Medial Fragment	na	na	na	na	na	na	na

Appendix B: Lithic Analysis for 41SM385

Lot No.	FS No.	Unit No.	ST No.	Level	Depth (cmbs)	Depth (cmbd)	Proviencie	Northing	Easting	No. of Specimens	Time Period	Era/ Phase	Artifact Material	Use Context	Artifact Description	Artifact Sub-description	Artifact Form/Condition	Surface Treatment	Comments	Weight in grams	Length in mm	Width in mm	Thickness in mm		
83.5	83	8		5		50-60		55	57	2		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Distal Fragment	na	na	na	na	na	na	na	
83.6	83	8		5		50-60		55	57	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Proximal Fragment	na	na	na	na	na	na	na	na
84.1	106	8		6		60-70		55	57	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Medial Fragment	na	na	na	na	na	na	na	na
84.2	106	8		6		60-70		55	57	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na	na
84.3	106	8		6		60-70		55	57	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na	na
85.1	72	9		1		8-20		54	56	1		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Medial Fragment	na	na	na	na	na	na	na	na
85.2	72	9		1		8-20		54	56	1		Prehistoric	Novaculite	Unknown	Debitage	Tertiary Flake	Distal Fragment	na	na	na	na	na	na	na	na
85.3	72	9		1		8-20		54	56	1		Prehistoric	Metaquartzite	Unknown	Debitage	Primary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na	na
85.4	72	9		1		8-20		54	56	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na	na	na
86.1	77	9		2		20-30		54	56	1		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na	na
86.10	77	9		2		20-30		54	56	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Proximal Fragment	na	na	na	na	na	na	na	na
86.11	77	9		2		20-30		54	56	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Medial Fragment	na	na	na	na	na	na	na	na
86.12	77	9		2		20-30		54	56	2		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Medial Fragment	na	na	na	na	na	na	na	na
86.2	77	9		2		20-30		54	56	1		Prehistoric	Chert	Unknown	Debitage	Chip	Decorticated	Thermally Altered	na	na	na	na	na	na	na
86.3	77	9		2		20-30		54	56	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Complete	na	na	na	na	na	na	na	na
86.4	77	9		2		20-30		54	56	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na	na	na
86.5	77	9		2		20-30		54	56	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na	na	na
86.6	77	9		2		20-30		54	56	2		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na	na
86.7	77	9		2		20-30		54	56	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na	na	na
86.8	77	9		2		20-30		54	56	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na	na	na
86.9	77	9		2		20-30		54	56	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Complete	na	na	na	na	na	na	na	na
87.1	78	9		3		30-40		54	56	1		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na	na
87.2	78	9		3		30-40		54	56	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na	na
87.3	78	9		3		30-40		54	56	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na	na
87.4	78	9		3		30-40		54	56	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Medial Fragment	na	na	na	na	na	na	na	na
87.5	78	9		3		30-40		54	56	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Proximal Fragment	na	na	na	na	na	na	na	na
88.1	81	9		4		40-50		54	56	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Proximal Fragment	na	na	na	na	na	na	na	na

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Lot No.	FS No.	Unit No.	ST No.	Level	Depth (cmbs)	Depth (cmbd)	Providence	Northing	Easting	No. of Specimens	Time Period	Era/ Phase	Artifact Material	Use Context	Artifact Description	Artifact Sub-description	Artifact Form/Condition	Surface Treatment	Comments	Weight in grams	Length in mm	Width in mm	Thickness in mm
88.2	81	9		4		40-50		54	56	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Complete	Thermally Altered	na	na	na	na	na
88.3	81	9		4		40-50		54	56	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Proximal Fragment	na	na	na	na	na	na
88.4	81	9		4		40-50		54	56	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Distal Fragment	na	na	na	na	na	na
89	84	9		5		50-60		54	56	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na
90.1	107	9		6		60-70		54	56	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Complete	na	na	na	na	na	na
90.2	107	9		6		60-70		54	56	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Distal Fragment	na	na	na	na	na	na
90.3	107	9		6		60-70		54	56	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na
90.4	107	9		6		60-70		54	56	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Proximal Fragment	na	na	na	na	na	na
91.1	115	1		8		79-90		77	51	1		Prehistoric	Chert	Unknown	Debitage	Primary Flake	Proximal Fragment	na	na	na	na	na	na
91.10	115	1		8		79-90		77	51	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Medial Fragment	na	na	na	na	na	na
91.11	115	1		8		79-90		77	51	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Proximal Fragment	na	na	na	na	na	na
91.12	115	1		8		79-90		77	51	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Distal Fragment	na	na	na	na	na	na
91.2	115	1		8		79-90		77	51	1		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Proximal Fragment	na	na	na	na	na	na
91.3	115	1		8		79-90		77	51	1		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Medial Fragment	na	na	na	na	na	na
91.4	115	1		8		79-90		77	51	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Medial Fragment	na	na	na	na	na	na
91.5	115	1		8		79-90		77	51	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Medial Fragment	na	na	na	na	na	na
91.6	115	1		8		79-90		77	51	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Complete	na	na	na	na	na	na
91.7	115	1		8		79-90		77	51	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na
91.8	115	1		8		79-90		77	51	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Proximal Fragment	na	na	na	na	na	na
91.9	115	1		8		79-90		77	51	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Proximal Fragment	na	na	na	na	na	na
92.1	117	1		9		90-100		77	50	1	Middle to	Prehistoric	Chert	Unknown	Dart Point	Gary	Complete	na	Reworked Gary Dart Point; small, triangular shaped body, straight lateral edges, small but distinct shoulders, contracting stem, convex basal edge, no evidence of utilization	1.71	24.23	14.93	6.41
92.2	117	1		9		90-100		77	50	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Complete	na	na	na	na	na	na
92.3	117	1		9		90-100		77	50	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Proximal Fragment	na	na	na	na	na	na
92.4	117	1		9		90-100		77	50	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Medial Fragment	na	na	na	na	na	na
92.5	117	1		9		90-100		77	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Medial Fragment	na	na	na	na	na	na

Appendix B: Lithic Analysis for 41SM385

Lot No.	FS No.	Unit No.	ST No.	Level	Depth (cmbs)	Depth (cmbd)	Proviencie	Northing	Easting	No. of Specimens	Time Period	Era/ Phase	Artifact Material	Use Context	Artifact Description	Artifact Sub-description	Artifact Form/Condition	Surface Treatment	Comments	Weight in grams	Length in mm	Width in mm	Thickness in mm	
92.6	117	1		9		90-100		77	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Proximal Fragment	na	na	na	na	na	na	na
93	119	1		10		100-110		77	51	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Complete	na	na	na	na	na	na	na
94.1	116	2		8		80-90		77	49	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Complete	Thermally Altered		na	na	na	na	na
94.10	116	2		8		80-90		77	49	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Distal Fragment	na	na		na	na	na	na
94.2	116	2		8		80-90		77	49	1		Prehistoric	Metaquartzite	Unknown	Debitage	Primary Flake	Complete	Thermally Altered	na	na	na	na	na	na
94.3	116	2		8		80-90		77	49	1		Prehistoric	Metaquartzite	Unknown	Debitage	Primary Flake	Distal Fragment	na	na		na	na	na	na
94.4	116	2		8		80-90		77	49	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na	na
94.5	116	2		8		80-90		77	49	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Proximal Fragment	na	na		na	na	na	na
94.6	116	2		8		80-90		77	49	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Distal Fragment	na	na		na	na	na	na
94.7	116	2		8		80-90		77	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na
94.8	116	2		8		80-90		77	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Complete	Thermally Altered	na	na	na	na	na	na
94.9	116	2		8		80-90		77	49	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Medial Fragment	na	na		na	na	na	na
95.1	118	2		9		90-100		77	49	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na	na
95.2	118	2		9		90-100		77	49	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na	na
95.3	118	2		9		90-100		77	49	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Proximal Fragment	na	na		na	na	na	na
95.4	118	2		9		90-100		77	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Distal Fragment	na	na		na	na	na	na
95.5	118	2		9		90-100		77	49	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Distal Fragment	na	na		na	na	na	na
96.1	120	2		10		100-110		77	49	1		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Medial Fragment	na	na		na	na	na	na
96.2	120	2		10		100-110		77	49	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Proximal Fragment	na	na		na	na	na	na
97.1	128	3		8		80-90		76	50	1		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Proximal Fragment	na	na		na	na	na	na
97.10	128	3		8		80-90		76	50	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Distal Fragment	na	na		na	na	na	na
97.11	128	3		8		80-90		76	50	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Distal Fragment	na	na		na	na	na	na
97.2	128	3		8		80-90		76	50	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Distal Fragment	na	na		na	na	na	na
97.3	128	3		8		80-90		76	50	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Distal Fragment	na	na		na	na	na	na
97.4	128	3		8		80-90		76	50	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na	na
97.5	128	3		8		80-90		76	50	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Complete	Thermally Altered	na	na	na	na	na	na
97.6	128	3		8		80-90		76	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Primary Flake	Complete	na	na		na	na	na	na

Appendix B: Lithic Analysis for 41SM385

Lot No.	FS No.	Unit No.	ST No.	Level	Depth (cmb)	Depth (cmbd)	Providence	Northing	Easting	No. of Specimens	Time Period	Era/ Phase	Artifact Material	Use Context	Artifact Description	Artifact Sub-description	Artifact Form/Condition	Surface Treatment	Comments	Weight in grams	Length in mm	Width in mm	Thickness in mm		
97.7	128	3		8		80-90		76	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Primary Flake	Proximal Fragment	na	na	na	na	na	na	na	
97.8	128	3		8		80-90		76	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Distal Fragment	na	na	na	na	na	na	na	na
97.9	128	3		8		80-90		76	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Distal Fragment	na	na	na	na	na	na	na	na
98.1	129	3		8		90-100		76	50	1		Prehistoric	Chert	Unknown	Unifacially Modified Flake	Tertiary Flake	Proximal Fragment	na	Unifacially modified along 5.79 mm of the straight lateral edge, modified edge utilized for sawing	na	25.38	14.99	2.04	na	
98.2	129	3		8		90-100		76	50	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na	na	na
99.1	130	3		10		100-110		76	50	1		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Distal Fragment	na	na	na	na	na	na	na	na
99.2	130	3		10		100-110		76	50	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Medial Fragment	na	na	na	na	na	na	na	na
99.3	130	3		10		100-110		76	50	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Complete	na	na	na	na	na	na	na	na
100	131	3		11		110-120		76	50	1		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Medial Fragment	na	na	na	na	na	na	na	na
101.1	123	4		8		80-90		75	49	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Complete	na	na	na	na	na	na	na	na
101.10	123	4		8		80-90		75	49	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Distal Fragment	na	na	na	na	na	na	na	na
101.11	123	4		8		80-90		75	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Proximal Fragment	na	na	na	na	na	na	na	na
101.12	123	4		8		80-90		75	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Medial Fragment	na	na	na	na	na	na	na	na
101.13	123	4		8		80-90		75	49	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na	na	na
101.14	123	4		8		80-90		75	49	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Complete	na	na	na	na	na	na	na	na
101.15	123	4		8		80-90		75	49	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Complete	na	na	na	na	na	na	na	na
101.2	123	4		8		80-90		75	49	1		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na	na
101.3	123	4		8		80-90		75	49	1		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Proximal Fragment	na	na	na	na	na	na	na	na
101.4	123	4		8		80-90		75	49	1		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Proximal Fragment	na	na	na	na	na	na	na	na
101.5	123	4		8		80-90		75	49	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Medial Fragment	na	na	na	na	na	na	na	na
101.6	123	4		8		80-90		75	49	1		Prehistoric	Metaquartzite	Unknown	Debitage	Primary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na	na
101.7	123	4		8		80-90		75	49	1		Prehistoric	Metaquartzite	Unknown	Debitage	Primary Flake	Medial Fragment	na	na	na	na	na	na	na	na
101.8	123	4		8		80-90		75	49	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Proximal Fragment	na	na	na	na	na	na	na	na
101.9	123	4		8		80-90		75	49	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Medial Fragment	na	na	na	na	na	na	na	na
102.1	124	4		9		90-100		75	49	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na	na
102.2	124	4		9		90-100		75	49	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Distal Fragment	na	na	na	na	na	na	na	na

Appendix B: Lithic Analysis for 41SM385

Lot No.	FS No.	Unit No.	ST No.	Level	Depth (cmbs)	Depth (cmbd)	Proviencie	Northing	Easting	No. of Specimens	Time Period	Era/ Phase	Artifact Material	Use Context	Artifact Description	Artifact Sub-description	Artifact Form/Condition	Surface Treatment	Comments	Weight in grams	Length in mm	Width in mm	Thickness in mm
103	125	4		11		110-120		75	49	1		Prehistoric	Chert	Unknown	Utilized Flake	Secondary Flake	Complete	na	Utilized along 5.01 mm of the concave lateral edge for scraping soft materials	na	26.63	23.32	3.38
104.1	126	5		7		80-90		74	50	1	Middle to	Prehistoric	Chert	Unknown	Dart Point	Kent	Complete	na	Reworked Kent Dart Point; small, triangular shaped body, straight lateral edges, weak shoulders, contracting stem, convex basal edge, no evidence of utilization	na	30.13	13.25	7.41
104.2	126	5		7		80-90		74	50	1		Prehistoric	Chert	Unknown	Debitage	Primary Flake	Complete	Thermally Altered	na	na	na	na	na
104.3	126	5		7		80-90		74	50	1		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na
104.4	126	5		7		80-90		74	50	1		Prehistoric	Metaquartzite	Unknown	Debitage	Primary Flake	Proximal Fragment	na	na	na	na	na	na
104.5	126	5		7		80-90		74	50	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Complete	Thermally Altered	na	na	na	na	na
104.6	126	5		7		80-90		74	50	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na
104.7	126	5		7		80-90		74	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Complete	Thermally Altered	na	na	na	na	na
104.8	126	5		7		80-90		74	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Primary Flake	Complete	na	na	na	na	na	na
104.9	126	5		7		80-90		74	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Distal Fragment	na	na	na	na	na	na
105.1	127	5		8		90-100		74	50	1		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Distal Fragment	na	na	na	na	na	na
105.2	127	5		8		90-100		74	50	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Complete	Thermally Altered	na	na	na	na	na
105.3	127	5		8		90-100		74	50	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Proximal Fragment	na	na	na	na	na	na
105.4	127	5		8		90-100		74	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Primary Flake	Medial Fragment	na	na	na	na	na	na
105.5	127	5		8		90-100		74	50	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na
106.1	132	6		8		80-90		67	62.5	1		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Medial Fragment	Thermally Altered	na	na	na	na	na
106.2	132	6		8		80-90		67	62.5	1		Prehistoric	Silicified Wood	Unknown	Debitage	Primary Flake	Proximal Fragment	na	na	na	na	na	na
107.1	133	6		10		100-110		67	62.5	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Proximal Fragment	na	na	na	na	na	na
107.2	133	6		10		100-110		67	62.5	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Distal Fragment	na	na	na	na	na	na
107.3	133	6		10		100-110		67	62.5	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Proximal Fragment	na	na	na	na	na	na
108	134	6		11		110-120		67	62.5	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Proximal Fragment	na	na	na	na	na	na
109	135	6		12		120-130		67	62.5	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Complete	na	na	na	na	na	na
110.1	136	7		7		70-80		67	59	1		Prehistoric	Metaquartzite	Unknown	Debitage	Primary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na
110.2	136	7		7		70-80		67	59	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Distal Fragment	Thermally Altered	na	na	na	na	na
110.3	136	7		7		70-80		67	59	1		Prehistoric	Silicified Wood	Unknown	Debitage	Tertiary Flake	Medial Fragment	na	na	na	na	na	na

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Lot No.	FS No.	Unit No.	ST No.	Level	Depth (cmb)	Depth (cmbd)	Proviencie	Northing	Easting	No. of Specimens	Time Period	Era/ Phase	Artifact Material	Use Context	Artifact Description	Artifact Sub-description	Artifact Form/Condition	Surface Treatment	Comments	Weight in grams	Length in mm	Width in mm	Thickness in mm
110.4	136	7		7		70-80		67	59	1		Prehistoric	Metaquartzite	Unknown	Debitage	Primary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na
111	137	7		8		80-90		67	59	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Complete	na	na	na	na	na	na
112.1	108	8		7		70-80		55	57	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Complete	na	na	na	na	na	na
112.2	108	8		7		70-80		55	57	1		Prehistoric	Metaquartzite	Unknown	Debitage	Primary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na
112.3	108	8		7		70-80		55	57	1		Prehistoric	Metaquartzite	Unknown	Debitage	Primary Flake	Medial Fragment	na	na	na	na	na	na
112.4	108	8		7		70-80		55	57	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Proximal Fragment	na	na	na	na	na	na
112.5	108	8		7		70-80		55	57	1		Prehistoric	Silicified Wood	Unknown	Debitage	Primary Flake	Distal Fragment	na	na	na	na	na	na
112.6	108	8		7		70-80		55	57	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Proximal Fragment	na	na	na	na	na	na
112.7	108	8		7		70-80		55	57	1		Prehistoric	Silicified Wood	Unknown	Debitage	Secondary Flake	Medial Fragment	na	na	na	na	na	na
113.1	110	8		8		80-90		55	57	1		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Proximal Fragment	na	na	na	na	na	na
113.2	110	8		8		80-90		55	57	1		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Distal Fragment	na	na	na	na	na	na
113.3	110	8		8		80-90		55	57	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Distal Fragment	na	na	na	na	na	na
113.4	110	8		8		80-90		55	57	2		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Distal Fragment	na	na	na	na	na	na
114.1	113	8		9		90-100		55	57	2		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Proximal Fragment	na	na	na	na	na	na
114.2	113	8		9		90-100		55	57	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na
114.3	113	8		9		90-100		55	57	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Medial Fragment	na	na	na	na	na	na
114.4	113	8		9		90-100		55	57	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Medial Fragment	na	na	na	na	na	na
115	114	8		10		100-110		55	57	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Medial Fragment	na	na	na	na	na	na
116.1	121	8		11		110-120		55	57	1		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Proximal Fragment	na	na	na	na	na	na
116.2	121	8		11		110-120		55	57	3		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Proximal Fragment	na	na	na	na	na	na
116.3	121	8		11		110-120		55	57	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Medial Fragment	na	na	na	na	na	na
117.1	122	8		12		120-130		55	57	1		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na
117.2	122	8		12		120-130		55	57	1		Prehistoric	Chert	Unknown	Debitage	Secondary Flake	Distal Fragment	na	na	na	na	na	na
117.3	122	8		12		120-130		55	57	2		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Proximal Fragment	na	na	na	na	na	na
117.4	122	8		12		120-130		55	57	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Distal Fragment	na	na	na	na	na	na
117.5	122	8		12		120-130		55	57	1		Prehistoric	Metaquartzite	Unknown	Debitage	Secondary Flake	Complete	na	na	na	na	na	na
118.1	109	9		8		80-90		54	56	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Complete	na	na	na	na	na	na

Appendix B: Lithic Analysis for 41SM385

Lot No.	FS No.	Unit No.	ST No.	Level	Depth (cmb)	Depth (cmbd)	Proviencie	Northing	Easting	No. of Specimens	Time Period	Era/ Phase	Artifact Material	Use Context	Artifact Description	Artifact Sub-description	Artifact Form/Condition	Surface Treatment	Comments	Weight in grams	Length in mm	Width in mm	Thickness in mm	
118.2	109	9		8		80-90		54	56	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Medial Fragment	na	na	na	na	na	na	na
118.3	109	9		8		80-90		54	56	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Proximal Fragment	na	na	na	na	na	na	na
119.1	111	9		9		90-100		54	56	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Proximal Fragment	na	na	na	na	na	na	na
119.2	111	9		9		90-100		54	56	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na
120.1	112	9		10		100-110		54	56	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Complete	Thermally Altered	na	na	na	na	na	na
120.2	112	9		10		100-110		54	56	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Complete	na	na	na	na	na	na	na
120.3	112	9		10		100-110		54	56	1		Prehistoric	Chert	Unknown	Debitage	Tertiary Flake	Medial Fragment	na	na	na	na	na	na	na
120.4	112	9		10		100-110		54	56	1		Prehistoric	Metaquartzite	Unknown	Debitage	Tertiary Flake	Proximal Fragment	Thermally Altered	na	na	na	na	na	na

Appendix C

Radiocarbon Dating Analysis



BETA ANALYTIC INC.

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REPORT OF RADIOCARBON DATING ANALYSES

Ms. Linda W. Ellis

Report Date: 12/21/2010

PBS&J

Material Received: 11/17/2010

Sample Data	Measured Radiocarbon Age	13C/12C Ratio	Conventional Radiocarbon Age(*)
Beta - 288321 SAMPLE : SM385-1 ANALYSIS : AMS-Standard delivery MATERIAL/PRETREATMENT : (bulk sherd organics): acid washes 2 SIGMA CALIBRATION : Cal AD 990 to 1160 (Cal BP 960 to 790)	1000 +/- 40 BP	-26.1 o/oo	980 +/- 40 BP
Beta - 288322 SAMPLE : SM385-2 ANALYSIS : AMS-Standard delivery MATERIAL/PRETREATMENT : (bulk sherd organics): acid washes 2 SIGMA CALIBRATION : Cal AD 250 to 430 (Cal BP 1700 to 1520)	1630 +/- 40 BP	-22.0 o/oo	1680 +/- 40 BP
Beta - 288323 SAMPLE : SM385-4 ANALYSIS : AMS-Standard delivery MATERIAL/PRETREATMENT : (bulk sherd organics): acid washes 2 SIGMA CALIBRATION : Cal AD 1300 to 1370 (Cal BP 650 to 580) AND Cal AD 1380 to 1430 (Cal BP 570 to 520)	580 +/- 40 BP	-26.2 o/oo	560 +/- 40 BP
Beta - 288324 SAMPLE : SM385-3 ANALYSIS : AMS-Standard delivery MATERIAL/PRETREATMENT : (bulk sherd organics): acid washes 2 SIGMA CALIBRATION : Cal AD 1040 to 1240 (Cal BP 920 to 700)	900 +/- 40 BP	-26.2 o/oo	880 +/- 40 BP

Dates are reported as RCYBP (radiocarbon years before present, "present" = AD 1950). By international convention, the modern reference standard was 95% the 14C activity of the National Institute of Standards and Technology (NIST) Oxalic Acid (SRM 4990C) and calculated using the Libby 14C half-life (5568 years). Quoted errors represent 1 relative standard deviation statistics (68% probability) counting errors based on the combined measurements of the sample, background, and modern reference standards. Measured 13C/12C ratios (delta 13C) were calculated relative to the PDB-1 standard.

The Conventional Radiocarbon Age represents the Measured Radiocarbon Age corrected for isotopic fractionation, calculated using the delta 13C. On rare occasion where the Conventional Radiocarbon Age was calculated using an assumed delta 13C, the ratio and the Conventional Radiocarbon Age will be followed by " ". The Conventional Radiocarbon Age is not calendar calibrated. When available, the Calendar Calibrated result is calculated from the Conventional Radiocarbon Age and is listed as the "Two Sigma Calibrated Result" for each sample.

CALIBRATION OF RADIOCARBON AGE TO CALENDAR YEARS

(Variables: C13/C12=-26.1:lab. mult=1)

Laboratory number: **Beta-288321**

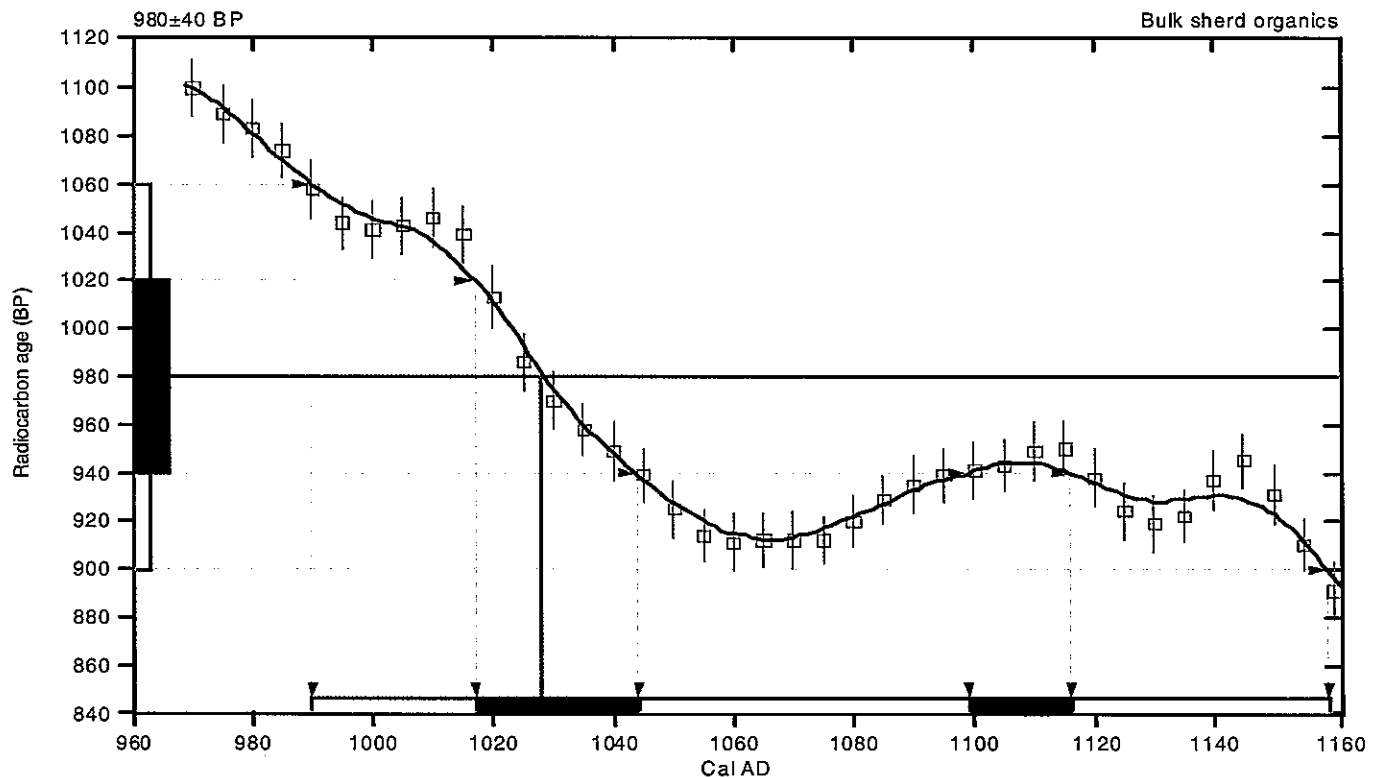
Conventional radiocarbon age: **980±40 BP**

2 Sigma calibrated result: **Cal AD 990 to 1160 (Cal BP 960 to 790)**
(95% probability)

Intercept data

Intercept of radiocarbon age
with calibration curve: **Cal AD 1030 (Cal BP 920)**

1 Sigma calibrated results: **Cal AD 1020 to 1040 (Cal BP 930 to 910) and**
Cal AD 1100 to 1120 (Cal BP 850 to 830)
(68% probability)



References:

Database used

INTCAL04

Calibration Database

INTCAL04 Radiocarbon Age Calibration

IntCal04: Calibration Issue of Radiocarbon (Volume 46, nr 3, 2004).

Mathematics

A Simplified Approach to Calibrating C14 Dates

Talma, A. S., Vogel, J. C., 1993, Radiocarbon 35(2), p317-322

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CALIBRATION OF RADIOCARBON AGE TO CALENDAR YEARS

(Variables: C13/C12=-22:lab. mult=1)

Laboratory number: **Beta-288322**

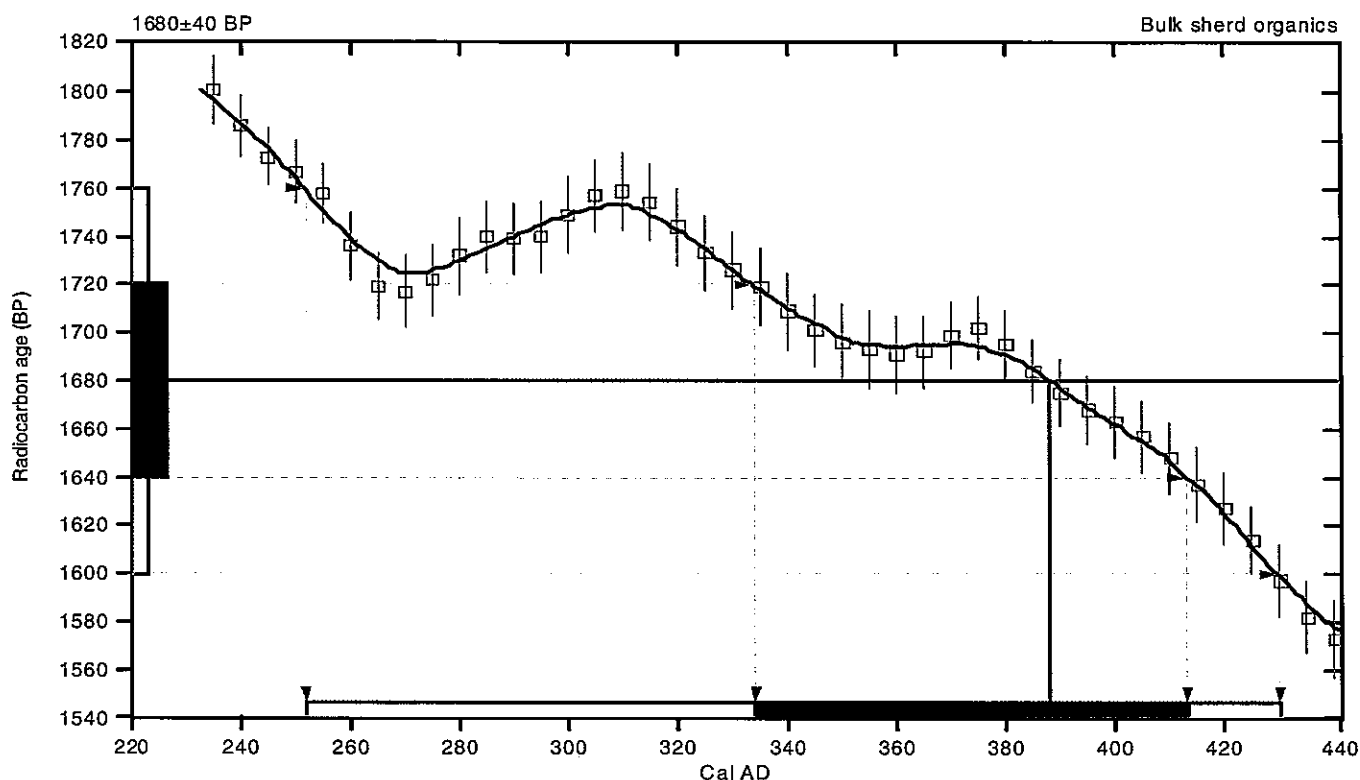
Conventional radiocarbon age: **1680±40 BP**

2 Sigma calibrated result: **Cal AD 250 to 430 (Cal BP 1700 to 1520)**
(95% probability)

Intercept data

Intercept of radiocarbon age
with calibration curve: **Cal AD 390 (Cal BP 1560)**

1 Sigma calibrated result: **Cal AD 330 to 410 (Cal BP 1620 to 1540)**
(68% probability)



References:

Database used

INTCAL04

Calibration Database

INTCAL04 Radiocarbon Age Calibration

IntCal04: Calibration Issue of Radiocarbon (Volume 46, nr 3, 2004).

Mathematics

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CALIBRATION OF RADIOCARBON AGE TO CALENDAR YEARS

(Variables: C13/C12=-26.2:lab. mult=1)

Laboratory number: **Beta-288323**

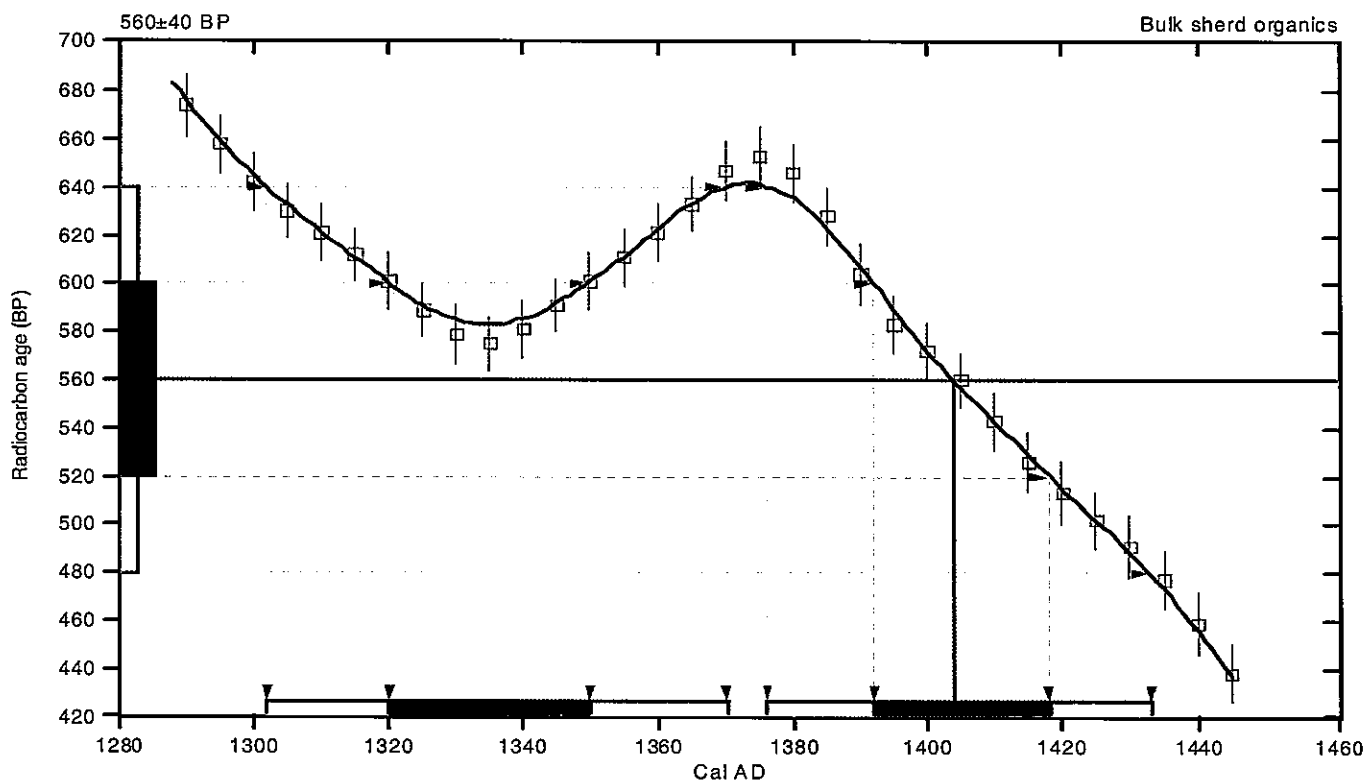
Conventional radiocarbon age: **560±40 BP**

2 Sigma calibrated results: **Cal AD 1300 to 1370 (Cal BP 650 to 580) and
(95% probability) Cal AD 1380 to 1430 (Cal BP 570 to 520)**

Intercept data

Intercept of radiocarbon age
with calibration curve: **Cal AD 1400 (Cal BP 550)**

1 Sigma calibrated results: **Cal AD 1320 to 1350 (Cal BP 630 to 600) and
(68% probability) Cal AD 1390 to 1420 (Cal BP 560 to 530)**



References:

Database used

INTCAL04

Calibration Database

INTCAL04 Radiocarbon Age Calibration

IntCal04: Calibration Issue of Radiocarbon (Volume 46, nr 3, 2004).

Mathematics

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CALIBRATION OF RADIOCARBON AGE TO CALENDAR YEARS

(Variables: C13/C12=-26.2:lab. mult=1)

Laboratory number: **Beta-288324**

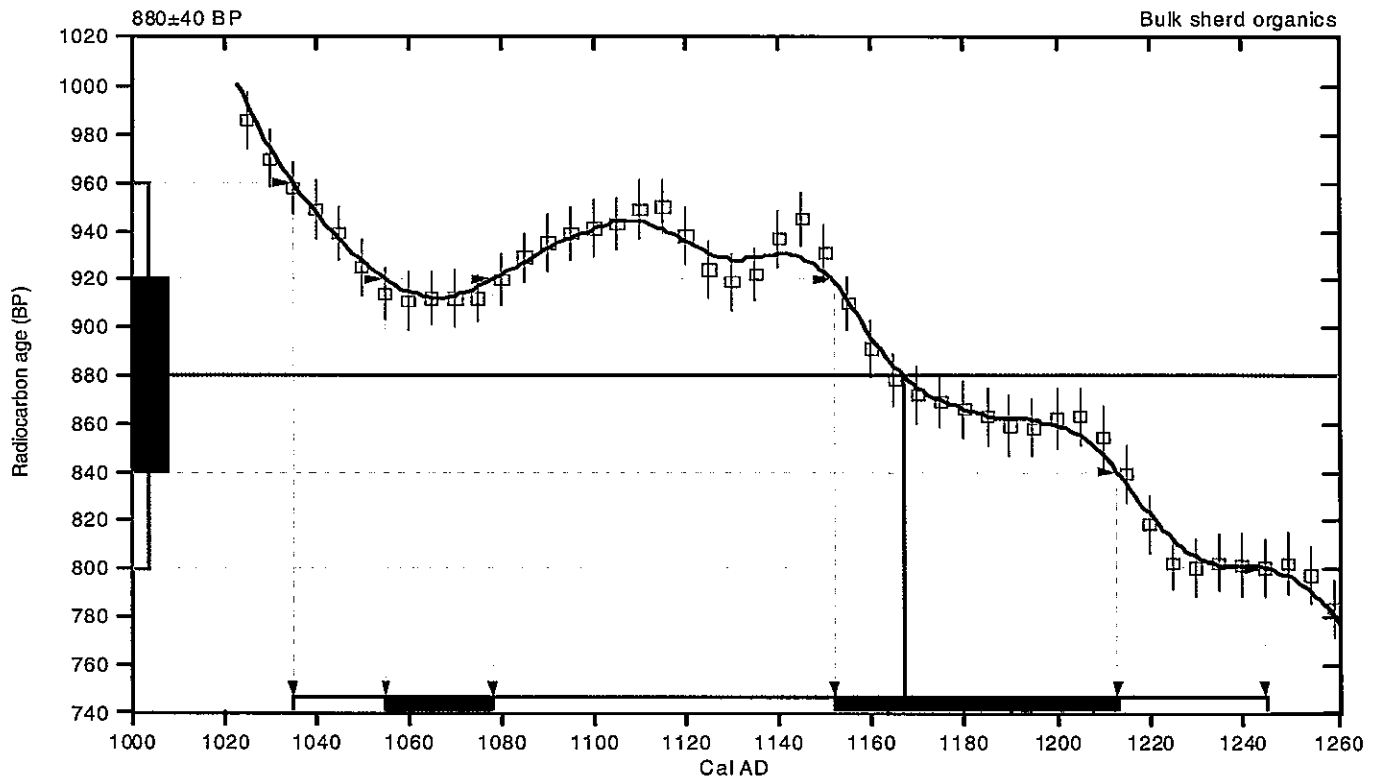
Conventional radiocarbon age: **880±40 BP**

2 Sigma calibrated result: **Cal AD 1040 to 1240 (Cal BP 920 to 700)**
(95 % probability)

Intercept data

Intercept of radiocarbon age
with calibration curve: **Cal AD 1170 (Cal BP 780)**

1 Sigma calibrated results: **Cal AD 1060 to 1080 (Cal BP 900 to 870) and**
(68 % probability) **Cal AD 1150 to 1210 (Cal BP 800 to 740)**



References:

Database used

INTCAL04

Calibration Database

INTCAL04 Radiocarbon Age Calibration

IntCal04: Calibration Issue of Radiocarbon (Volume 46, nr 3, 2004).

Mathematics

A Simplified Approach to Calibrating C14 Dates

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Appendix D

**Site Location
(not for public disclosure)**