

APPENDIX E

CULTURAL RESOURCES INVENTORY REPORT

DINETAHDOO CULTURAL RESOURCES MANAGEMENT

A Cultural Resources Inventory of Five Proposed Borrow Pits for MWH Global in
the NECR Mine Area, McKinley County, New Mexico.

Report prepared by
Jeremy Begay, Archaeologist

DCRM 2013-55

NMCRIS Activity Number 128978
NM-13-236-SM

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Submitted by
Rena Martin, Anthropologist/Archaeologist
Dinétahdóó Cultural Resources Management
P.O. Box 2012
Farmington, New Mexico 87499

Submitted to and Prepared for:
Richmond Leeson Jr., P.G.
Principal Hydrogeologist/Location Leader
Engineering and Technical Services Group
MWH Global, Inc.
1475 Pine Grove Rd.
Steamboat Springs, CO 80477

Abstract

This report is submitted to the New Mexico State Historic Preservation Office for compliance review as part of the cultural resources clearance process. The report details the results of the cultural resources inventory conducted in conjunction with the project entitled "*A Cultural Resources Inventory of Five Proposed Borrow Pits for MWH Global in the NECR Mine Area, McKinley County, New Mexico*". Mr. Richmond Leeson Jr., MWH Principal Hydrogeologist, requested the cultural resources inventory. The project involves the evaluation of five areas as potential soil borrow sites for the construction of a proposed evapotranspirative soil cover for a mine material repository at the existing Church Rock Mill Site tailings impoundment. Soil borings, soil sampling, and other field testing will be conducted to collect data in these areas to evaluate the potential use of soil from each of the identified areas. Once the soil properties have been evaluated, design grading plans will be developed to determine the potential volumes of suitable, available soil from the areas that are determined to be suitable. During construction of the proposed repository, suitable soils from the selected borrow areas would be excavated and hauled to the existing tailings impoundment by heavy machinery. The project area is located within McKinley County on privately held lands. The legal description for the project area is [REDACTED]

[REDACTED] The project area can be found on the [REDACTED] and [REDACTED] 7.5-minute series USGS quadrangle maps. The total area surveyed in conjunction with this project is 73.94 acres (29.92 ha). In all, four (4) archaeological sites and seventeen (17) isolated occurrences were identified during the inventory. Archaeological clearance is recommended for the proposed undertaking provided that the recommendations prescribed in the report are adhered to.

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Introduction

Between October 22nd and 24th, 2013, Jeremy Begay, Clifford Werito, Matthew Martin, and Jeffrey Begay, archaeologists with Dinétahdóó Cultural Resources Management (DCRM), conducted an archaeological inventory of the five proposed borrow pits for MWH Global in McKinley County, western New Mexico. Mr. Toby Leeson, MWH Principal Hydrogeologist, requested the cultural resources inventory. Four newly documented archaeological sites and seventeen isolated occurrences (IOs) were identified and evaluated during the inventory. This cultural resources inventory was completed under New Mexico State Historic Preservation Office permit number NM-13-236-SM.

Description of Undertaking

The five borrow pit areas are being evaluated as potential soil borrow sites for the construction of a proposed evapotranspirative soil cover for a mine material repository at the existing Church Rock Mill Site tailings impoundment. Soil borings, soil sampling, and other field testing will be conducted to collect data in these areas to evaluate the potential use of soil from each of the identified areas. Once the soil properties have been evaluated, design grading plans will be developed to determine the potential volumes of suitable, available soil from the areas that are determined to be suitable. During construction of the proposed repository, suitable soils from the selected borrow area(s) would be excavated and hauled to the existing tailings impoundment by heavy machinery and transportation methods. A total area of approximately 72 acres (29.13 ha) is considered the area of effect.

Location

The project area is located in McKinley County, New Mexico, on privately held lands within the checkerboard area of Pinedale Chapter, a governmental unit of the Navajo Nation (Figure 1). Table 1 provides the UTM coordinates and legal descriptions of the project areas.

Table 1. UTM Coordinates, Legal Descriptions, and USGS Maps for the five proposed borrow pits in McKinley Co, NM.

Designation	UTM Coordinates: Zone 12 (NAD 83)		Legal Description (NMPM; Sections Projected)						7.5 min USGS Quad
	Northing	Easting	¼	¼	¼	Sec	T	R	
	North Drainage Borrow Pit, 9 acres								
Centerpoint									
	South Drainage Borrow Pit, 20 acres								
Centerpoint									
	Dilco Hill Borrow Pit, 11 acres								
Centerpoint									
	East Borrow Pit, 16 acres								
Centerpoint									
	West Borrow Pit, 16 acres								
Centerpoint									

BOL Denotes Beginning of Line

B Denotes Bend

EOL Denotes End of Line

* Denotes Projected ¼ and Section Data

Environmental and Cultural Setting

The project area is located in the Zuni Uplift geological region, a large sedimentary landmass that was uplifted during the onset of the Laramide Orogeny during the Cretaceous-Tertiary transition. A considerable amount of tectonic activity exposed numerous geologic facies ranging in age from the Neogene to the Precambrian. Erosion of the numerous facies has produced a multitude of geographic features and geologic structures, such as the Hogback, Fenced Up Horse Canyon, Zuni Mountains, Oso Ridge, and the Malpais badlands. Within the uplift, strata representing marine transgressive and nonmarine regressive cycles have been exposed as well as Precambrian basement rock, which have produced redeposited packages of fine- to coarse-grained alluvial, fluvial, colluvial, residual, and aeolian sand, silt, clay, and multi-lithic sand. Outcrops of sedimentary, metamorphic, and igneous bedrock as well as pebble- to boulder-sized clasts derived from these outcrops are scattered throughout the region. Situated in the mixed conifer environ, the Zuni Uplift supports flora such as ponderosa and pinyon pine, juniper, gambel oak, aspen, green ephedra, sagebrush, Indian ricegrass, ring muhly, blazing star, alkali sacaton, amaranth, dropseed, narrow- and broad-leaf yucca, prickly pear and cholla cacti, and Russian thistle.

The Navajo name for Pinedale is To beehwiisgani, which means "Harden (mud) around the water." Pinedale Chapter is in the Lobo Mesa region, an area with numerous archaeological sites that evidence Navajo occupation dating the seventeenth century. Pinedale Chapter has seen infrastructure development which has bettered the lives of the chapter residents. Most of the working-age population travel to the nearby town of Gallup for employment opportunities because wage work in the immediate area is scarce (LSR Innovations 2004).

Existing Data Review

Prior to the fieldwork, a records check was conducted at the Navajo Nation Historic Preservation Department (NNHPD) in Window Rock, Arizona, and the New Mexico Archaeological Research Management Section (ARMS) New Mexico Cultural Resources Inventory System (NMCRIIS) online database. The review indicated that numerous projects have been conducted within 300 ft of the project areas. No previously recorded archaeological sites were identified near the project area.

The Sacred Places files located at NNHPD's Traditional Culture Program, which contains records of sacred places throughout the reservation, was researched to determine if any previously identified sacred places are located within 1 mile (1.609 km) of the project area. The records check indicated that no recorded sacred places are located within one mile of the project area.

A check of Van Valkenburgh (1974) indicates that the closest sacred place is Navajo Church Rock (Tse ii ahi / Standing Rock), located approximately 7.82 miles (12.58 km) southwest of the project area.

Field Methods

Between October 22nd and 24th, 2013, Jeremy Begay, Clifford Werito, Matthew Martin, and Jeffrey Begay, archaeologists with Dinétahdóó Cultural Resources Management (DCRM), conducted the cultural resources inventory of the project areas. The archaeologists were shown the five project areas by Mr. Rick Spitz, Project Manager with AMEC. The project areas were inventoried by walking parallel transects within the proposed borrow pit areas with archaeologists spaced no more than 10 m apart. A 50 ft buffer zone was added to each of the five proposed borrow pits. A total of 9.48 acres (3.83 ha) was surveyed for the north drainage borrow pit; 20.02 acres (8.10 ha) for the south drainage borrow pit; 11.48 acres (4.64 ha) for the Dilco Hill area; 16.48 acres (6.66 ha) for the east borrow pit; and 16.48 acres (6.66 ha) for the west borrow pit. Approximately 73.94 acres (29.92 ha) in total was inventoried in conjunction with the project.

The four archaeological sites were recorded after the completion of the survey. The sites were recorded using a metric tape measure, protractor, ruler, and a compass, and sufficient notes were taken to complete Navajo Nation Site Survey and Management Forms and Laboratory of Anthropology site forms in the office. Locations of the cultural resources identified during the inventory were recorded using a hand-held Global Positioning Satellite (GPS) unit. The site forms were filled out in-house once fieldwork was completed.

Isolated occurrences were recorded upon discovery once they had been determined not to be associated with an archaeological site. The locations of all isolated occurrences identified during the inventory were recorded using a hand-held GPS unit.

Cultural Resources Findings

Four (4) archaeological sites and seventeen (17) isolated occurrences were identified during the survey. A brief description of the identified isolated occurrences and their coordinates can be found in Table 2.

Archaeological Sites

Site: LA177466/NM-Q-21-122 (Figure 2)

USGS Map Reference:

Legal Location:

UTM (NAD83):

Land Status: Private

State: New Mexico

County: McKinley

Chapter: Pinedale

Site Type: Anasazi PI-P II Artifact Scatter

Site Size: 32 x 30m

Site Setting: LA177466/NM-Q-21-122 is located on the north slope of an unnamed west-oriented ridge.

Site Description: LA177466/NM-Q-21-122 is an Anasazi PI-P II artifact scatter. No features were identified or recorded during the inventory. There was no concentration of artifacts or identifiable midden; rather, artifacts were scattered throughout the site area. The 100+ sherds include Red Mesa, Gallup, Puerco, and Escavada Black-on-whites, Kana-a grey, Chaco corrugated, Puerco Black-on-red, and numerous unidentifiable white, grey, and red ware sherds.

Two Zuni spotted chert primary flakes were also noted; no other artifacts were found. Many of the artifacts are being redeposited down gradient to the north by natural erosional processes. An in-field, non-intrusive assessment determined that LA177466/NM-Q-21-122 does not contain any subsurface cultural materials.

Site: LA177467/NM-Q-21-123 (Figure 3)

USGS Map Reference: [REDACTED]

Legal Location: [REDACTED]

UTM (NAD83): [REDACTED]

Land Status: Private

State: New Mexico

County: McKinley

Chapter: Pinedale

Site Type: Anasazi PI-P II Habitation

Site Size: 56 x 42m

Site Setting: LA177467/NM-Q-21-123 is located at the south base of an unnamed mesa.

Site Description: LA177467/NM-Q-21-123 is an Anasazi PI-P II habitation with seven recorded features.

Feature 1 is a collapsed L-shaped unit pueblo measuring 30 x 6m and oriented to the east. It is believed to contain at least eight to ten rooms buried beneath a considerable amount of sandstone detritus. The amount of sandstone materials suggests that the feature was constructed entirely of masonry. No wall alignments were apparent.

Feature 2 is a circular depression in front of feature 1 measuring 6m in diameter and 70cm in depth. DCRM archaeologists believe that feature 2 may contain the buried remnants of a kiva or pithouse.

Feature 3 is a plaza area encompassing feature 2 and just south of feature 1. Feature 3 measures 15 x 12m and appears to have been flattened from use by the prehistoric occupants. In and around feature 3 are scattered artifacts.

Feature 4 is a dense midden measuring 37 x 15m and containing thousands of artifacts. It may contain 100,000+ ceramic sherds, including Kiatuthlanna, White Mound, Red Mesa, Gallup, Escavada, Puerco, and Chaco Black-on-whites, Kana-a grey, Chaco and Coolidge corrugated, Puerco and Wingate Black-on-red, and numerous unidentified white, grey, and red wares too small to type. Lithic artifacts numbered 1,000+ and included flakes representing all stages of reduction; tested, exhausted, and multifacial cores; hammerstones; projectile point fragments; uniface and biface tools; and retouched flakes. Material types consist of petrified wood; Zuni spotted, grey, brown, tan, and black chert; rose, brown, grey, and white quartz; and clear chalcedony. DCRM archaeologists also identified several one-hand and two-hand sandstone mano fragments as well as basin and trough metate fragments and 200+ fire-cracked and -altered sandstone rock fragments. Many of the artifacts are being redeposited down gradient to the south by natural erosional processes.

Features 5, 6, and 7 are hearths located within feature 4. All three features measure 1m in diameter and consist of dark, ash-stained soil encircled by several oxidized sandstone fragments. No upright sandstone slabs were observed.

No other features were identified or recorded. DCRM archaeologists noted that LA177467/NM-Q-21-123 is in a pristine state with no evidence of tampering. Artifacts and materials from the structural features are being redeposited down gradient by natural erosional processes. An in-field, non-intrusive assessment determined that LA177467/NM-Q-21-123 may contain subsurface cultural materials up to 4m in depth.

Site: LA177468/NM-Q-21-123 (Figure 4)

USGS Map Reference: [REDACTED]

Legal Location: [REDACTED]

UTM (NAD83): [REDACTED]

Land Status: Private

State: New Mexico

County: McKinley

Chapter: Pinedale

Site Type: Anasazi PI-P II Habitation

Site Size: 37 x 39m

Site Setting: LA177468/NM-Q-21-123 is located on a spur of an unnamed west oriented ridge.

Site Description: LA177468/NM-Q-21-123 is an Anasazi PI-P II habitation with five recorded features.

Feature 1 is a collapsed unit pueblo measuring 19 x 14m and consisting of scattered sandstone blocks and slabs covering at least ten to twelve rooms. No wall alignments were visible; however, the rubble mound covers a considerable amount of the ridge spur.

Located in the northern portion of feature 1 is feature 2, a kiva depression measuring 6m in diameter. Feature 2 is 1m deep and has been disturbed by illegal potting activities which have left an excavated pit in the middle of the feature. Feature 2 is composed of scattered sandstone blocks and slabs.

Feature 3 is a kiva depression measuring 6m in diameter, also consisting of scattered sandstone blocks and slabs. Feature 3 has not been disturbed by illegal activities.

Feature 4 is a midden in the east site area measuring 16 x 10m which contains 5,000+ ceramic sherds, including Kiatuthlanna, Red Mesa, Gallup, Escavada, and Puerco Black-on-whites, Kana-a grey, Chaco and Coolidge corrugated, Puerco Black-on-red, and numerous unidentified white, grey, and red ware sherds too small to type. Lithic artifacts numbered 500+ and included flakes representing all stages of reduction, tested and exhausted cores, hammerstones, and uniface and biface tools. Materials include petrified wood; Zuni spotted, grey, brown, tan, and black chert; and rose, brown, grey, and white quartz.. DCRM archaeologists also identified several one-hand and two-hand sandstone mano fragments and 100+ fire-cracked and -altered sandstone rock fragments. Many of the artifacts being redeposited down gradient to the south by

natural erosional processes. A trench measuring 13 x 2m has been excavated into the eastern side of the feature. The trench is most likely associated with illegal potting activities.

Feature 5 is a concentration of fire-cracked and -altered sandstone blocks and slabs measuring 1m in diameter. It may be the remains of a hearth.

No other features were observed or recorded. A bladed road on the eastern side of a fence line, outside the MWH property boundary, may have obliterated a portion of the site. An in-field, non-intrusive assessment determined that LA177468/NM-Q-21-123 may contain subsurface cultural materials up to 4m in depth.

Site: LA177469/NM-Q-20-61 (Figure 5)

USGS Map Reference:

Legal Location:

UTM (NAD83):

Land Status: Private

State: New Mexico

County: McKinley

Chapter: Pinedale

Site Type: Anasazi PI-P II Habitation

Site Size: 43 x 31m

Site Setting: LA177469/NM-Q-20-61 is on the north slope of an unnamed east-to-west ridge.

Site Description: LA177469/NM-Q-20-61 is an Anasazi PI-P II habitation with two features.

Feature 1 is a disturbed roomblock measuring 19 x 11m and consisting of scattered sandstone slabs and blocks and two walls exposed in a bulldozer cut. Both walls consist of unshaped sandstone slabs and blocks set in mud mortar, three courses high. The cut extends 1.5m below the surface at its deepest point. Feature 1 contained a minimum of six rooms before the feature was vandalized.

Feature 2 is a midden measuring 9 x 5m that has also been impacted by the bulldozer cut. It contains 200+ sherds, including Red Mesa, Gallup, Escavada, and Puerco Black-on-whites, Chaco and Coolidge corrugated, Puerco Black-on-red, and unidentified white, grey, and red ware sherds too small to type. Lithic artifacts numbered 50+ and included flakes representing all stages of reduction, tested cores, and hammerstones of Zuni spotted, grey, and white chert; petrified wood; and rose, brown, and grey quartz. Four mano fragments were also observed within the midden as well as 100+ fragments of fire-cracked and -altered rock. Feature 2 has been disturbed on the southeast side by the bulldozer cut that impacted feature 1. As a result of the disturbance, a thin lens of ash-stained soil was exposed in the north wall of the cut.

No other features were identified or recorded. DCRM archaeologists were unable to determine when the impact to the site occurred, although it is believed that 50% of the site remains undisturbed. An in-field, non-intrusive assessment determined that LA177469/NM-Q-20-61 does retain subsurface cultural materials possibly up to 4m in depth.

Isolated Occurrences

Seventeen isolated occurrences were identified within the project area. Their locations and descriptions are listed in Table 2.

Table 2. List of identified isolated occurrences within the five proposed borrow pits in McKinley Co, NM

IO #	Artifact Description	Location	
		UTM Coordinates (Zone 12) NAD 83	
		Northing	Easting
1	One gray ware sherd		
2	Two Chaco corrugated sherds		
3	One Chaco corrugated sherd		
4	One Chaco corrugated sherd		
5	Two gray ware sherds		
6	One gray ware sherd One Chaco corrugated sherd		
7	Two gray ware sherds		
8	Two incised gray ware sherds		
9	One gray ware sherd		
10	One Chaco corrugated sherd		
11	One gray ware sherd		
12	One gray ware sherd Seven Chaco corrugated sherds Five black on white sherds		
13	One Chaco corrugated sherd		
14	One Chaco corrugated sherd One gray ware sherd		
15	One Chaco corrugated sherd		
16	One Chaco corrugated sherd		
17	One gray ware sherd		

Traditional Cultural Properties

During the survey, the project archaeologists interviewed nearby residents concerning any sacred places, burials, or traditional cultural places that might be affected by the proposed undertaking. No TCPs were identified in the area of effect; however, it was clear that the region is culturally important in Navajo ceremony and culture. The interviews were conducted in English.

Evaluation of Significance

All cultural resources identified and recorded are evaluated for significance under certain federal statutes for the preservation and management of these resources. This process is intended to ensure that cultural resources are not inadvertently destroyed by the proposed undertaking, and to ensure that local communities are involved in the decision-making process.

The National Historic Preservation Act

Under the Section 106 process of the National Historic Preservation Act (NHPA; 36 CFR 60.4), cultural resources may be eligible for nomination to the National Register of Historic Places if they are more than 50 years old and "possess integrity of location, design, setting, material,

workmanship, feeling, and association.” One or more of the following criteria (a-d) must be applicable:

- a. associated with events that have made a significant contribution to the broad patterns of our history; or
- b. associated with the lives of a person significant in our past; or
- c. embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or
- d. has yielded, or may be likely to yield, information important in prehistory or history.

As defined in 36 CFR 60.4, cemeteries, birthplaces, or graves of historical figures; properties owned by religious institutions or used for religious purposes; structures that have been moved from their original locations; reconstructed historical buildings; properties primarily commemorative in nature; and properties that have achieved significance within the past 50 years are not ordinarily considered eligible for the National Register. However, such properties may qualify if they are integral parts of districts that do meet the eligibility criteria.

Archaeological Resources Protection Act

The Archaeological Resources Protection Act of 1979 (ARPA; 43 CFR Part 7) has two fundamental purposes:

- to protect irreplaceable archaeological resources on public lands and Indian lands from unauthorized excavation, removal, damage, alteration, or defacement; and
- to increase communication and exchange of information among governmental authorities, the professional archaeological community, and private individuals having collections of archaeological resources and data that were obtained prior to enactment of the Act.

In order for a resource to be considered an archaeological resource and thus merit protection, it must be both more than 100 years old and of archaeological interest.

American Indian Religious Freedom Act

The American Indian Religious Freedom Act (AIRFA [P.L. 95-341]) affirms that American Indians have the right to believe, express, and exercise their traditional religions and have access to sites, use and possession of sacred objects, and freedom of worship through ceremonies and rites. Any site or place (prehistoric or historic) that has religious, ceremonial, or sacred aspects or components needs to be dealt with in light of this law. Anasazi sites related to Navajo cultural traditions qualify for protection, as do all Navajo ceremonial sites, unmarked traditional places, and residential structures whose owners/users want them protected for religious and cultural reasons.

Native American Graves Protection and Repatriation Act

The Native American Graves Protection and Repatriation Act (NAGPRA [P.L. 101-601]) provides protection of Native American graves; establishes procedures and legal standards for the repatriation of human remains, funeral objects, sacred objects, and objects of cultural

patrimony, including those from archaeological contexts; and provides the United States district courts jurisdiction over any action brought by any person alleging a violation of the Act. The Act also recognizes certain tribal, Native Hawaiian, and individual rights in regard to burial sites located on federal and Indian lands, and it sets forth procedures for the intentional excavation and inadvertent discoveries of these items.

Table 3: NHPA, ARPA, AIRFA, and NAGPRA Evaluation of Identified Cultural Resources documented within the five proposed borrow pits in McKinley Co, NM.

Cultural Resource No.	Description	Evaluation	
LA177466/NM-Q-21-122 (Inside North Drainage Borrow Area)	Anasazi (PI-P11) Artifact Scatter	NRHP	Eligible 1. 50-year guideline met 2. Retains integrity of location, setting, and materials 3. Does meet criterion d
		ARPA	Is Eligible? Yes 1. 100-year guideline met? Yes 2. Is of archaeological interest? Yes
		AIRFA	Does not merit consideration
		NAGPRA	Does not merit consideration
LA177467/NM-Q-21-123 (Inside South Drainage Borrow Area)	Anasazi (PI-P11) Habitation	NRHP	Eligible 1. 50-year guideline met 2. Retains integrity of location, setting, workmanship, and materials 3. Does meet criterion d
		ARPA	Is Eligible? Yes 1. 100-year guideline met? Yes 2. Is of archaeological interest? Yes
		AIRFA	Does not merit consideration
		NAGPRA	May merit consideration
LA177468/NM-Q-21-124 (Inside East Borrow Area)	Anasazi (PI-P11) Habitation	NRHP	Eligible 1. 50-year guideline met 2. Retains integrity of location, setting, workmanship, and materials. 3. Does meet criterion d
		ARPA	Is Eligible? Yes 1. 100-year guideline met? Yes 2. Is of archaeological interest? Yes
		AIRFA	Does not merit consideration
		NAGPRA	May merit consideration
LA177469/NM-Q-20-61 (Inside West Borrow Area)	Anasazi (PI-P11) Habitation	NRHP	Eligible 1. 50-year guideline met 2. Retains integrity of location, setting, workmanship, and materials. 3. Does meet criterion d
		ARPA	Is Eligible? Yes 1. 100-year guideline met? Yes 2. Is of archaeological interest? Yes
		AIRFA	Does not merit consideration

Cultural Resource No.	Description	Evaluation	
		NAGPRA	May merit consideration
Isolated Occurrences	IO#1-17 (see table 2 for descriptions)	NRHP	Not Eligible 1. 50-year guideline met 2. Lacks integrity 3. Does not meet criterion a-d
		ARPA	Is Eligible? No 1. 100-year guideline met? Yes 2. Is of archaeological interest? No
		AIRFA	Do not merit consideration
		NAGPRA	Do not merit consideration

Recommendations

Archaeological clearance for the proposed undertaking is recommended provided that the following stipulations are met: (1) all proposed construction activities shall be confined to the five proposed borrow areas, (2) any new discoveries shall be immediately reported to the New Mexico State Historic Preservation Office, and

At archaeological sites LA177467/NM-Q-21-123 and LA177468/NM-Q-21-124 (3) reflag site boundaries prior to construction, (4) avoidance.

At archaeological sites LA177466/NM-Q-21-122 and LA177469/NM-Q-20-61 (5) reflag site boundaries prior to construction, (6) monitor all ground disturbing activities within 50 ft of the sites.

References Cited

LSR Innovations Research & Planning

2004 Chapter Images: 2004 Edition. Navajo Nation Division of Community Development, Window Rock, Arizona.

Van Valkenburgh, Richard F.

1974 Navajo Sacred Places. In *Navajo Indians III*, edited by C. Kluckhohn, pp. 9-99. Garland Publishing, New York.

LABORATORY OF ANTHROPOLOGY SITE RECORD

1

1. IDENTIFICATION & OWNERSHIP

LA Number: 177466 (contact ARMS for site registration)☐ Site Update? (complete at least Sections 1-4)Site Name(s): MWH1

Other Site Number(s):

Agency Assigning Number:

NM-Q-21-122Navajo NationCurrent Site Owner(s): PrivateSite-Type: Non-StructuralOccupation Type: Prehistoric

2. RECORDING INFORMATION

NMCRIS Activity No.: 128978 Field Site Number: MWH1Site Marker? ☒ (specify ID#): LA177466Recorder(s): J. BegayAgency: Dinetahdoo CRM Recording Date (dd-MMM-yyyy): 24-Oct-2013Site Accessibility (choose one): ☒ accessible ☐ buried (sterile overburden) ☐ flooded ☐ urbanized ☐ not accessibleSurface Visibility (% visible; choose one): ☐ 0% ☐ 1-25% ☐ 26-50% ☒ 51-75% ☐ 76-99% ☐ 100%

Remarks: _____

Recording Activities:

☒ sketch mapping☒ photography☐ instrument mapping (e.g., total station mapping)☐ shovel or trowel tests; probes☐ surface collection (controlled or uncontrolled)☐ test excavation☒ in-field artifact analysis☐ excavation (data recovery)☐ other activities (specify): _____Description of Analysis or Excavation Activities: Ceramic identification, lithic artifact and materials analyzed in field; no excavation.Photographic Documentation: color digital images -- 2 site overviews

Surface Collections (choose one):

☒ no surface collection☐ uncontrolled surface collection☐ collections of specific items only☐ controlled (sample: <100%)☐ controlled (complete: 100%)☐ other method (describe): _____

Records Inventory:

☒ site location map☐ excavation, collection, analysis records☐ field journals, notes☒ sketch map(s)☒ photos, slides, and associated records☐ NM Historic Building Inventory form☐ instrument map(s)☐ other records: _____Repository for Original Records: Dinetahdoo CRM

Repository for Collected Artifacts: _____

3. CONDITION

Archaeological Status: ☐ surface collection ☐ test excavation ☐ partial excavation ☐ complete excavationDisturbance Sources: ☐ wind erosion ☒ water erosion ☒ bioturbation ☐ vandalism ☐ construction/land development☐ other source (specify): _____

Vandalism:

☐ defaced glyphs☐ damaged/defaced building☐ surface disturbance☐ manual excavation☐ mechanical excavation☐ other vandalism (specify): _____

Percentage of Site Intact (choose one):

☐ 0%☐ 1-25%☐ 26-50%☐ 51-75%☒ 76-99%☐ 100%Observations on Site Condition: Site is largely intact with in situ artifact assemblage being redeposited down gradient by natural processes.

4. RECOMMENDATIONS (for Performer/Recorder use only)

National Register Eligibility (choose one):

☒ eligible☐ not eligible☐ not sure

Applicable Criteria:

☐ (a)☐ (c)☐ (b)☒ (d)Basis for Recommendation: Site can provide data regarding the prehistoric Anasazi PI-PII occupation, subsistence strategies, and resource exploitation of the greater Pinedale region.Assessment of Project Impact: site will be extensively marked to avoid disturbance, no impact.Treatment Recommendations: Avoidance**5. SHPO CONSULTATIONS (for SHPO and Sponsor use only)**Sponsor NR Determination: ☐ eligible ☐ not eligible ☐ not determinedApplicable Criteria: ☐ (a) ☐ (b) ☐ (c) ☐ (d)

Sponsor Staff: _____

Date (dd-MMM-yyyy):

____ day ____ month ____ year

Sponsor Remarks: _____

SHPO NR Concurrence: ☐ eligible ☐ not eligible ☐ not determinedApplicable Criteria: ☐ (a) ☐ (b) ☐ (c) ☐ (d)

HPD Staff: _____

Date (dd-MMM-yyyy):

____ day ____ month ____ year

HPD Log No: _____

Register Status: ☐ listed on National Register ☐ listed on State Register ☐ formal determination of eligibility

State Register No.: _____

SHPO Remarks: _____

6. LOCATION

Source Graphics:

☒ USGS 7.5' (1:24,000) topo maps☐ rectified aerial photos [Scale: _____]☐ other topo maps [Scale: _____]☐ unrectified aerial photos [Scale: _____]☐ GPS unitGPS accuracy (choose one): ☐ < 1.0 m ☐ 1-10 m ☐ 10-100 m ☐ >100 m☐ other source (describe): _____

UTM Coordinates (@ center of site; at least one set of coordinates required):

Map-based Coordinates Datum: NAD83 Zone: _____GPS-based Coordinates Datum: NAD83 Zone: _____

Directions to Site: _____

_____ in highway R-O-W? ☐Town (if in city limits): _____ State: NM County: McKinley

USGS Quadrangle Name

Date

USGS Code

PLSS

Meridian	Unplatted	Township	Range	Section	¼ Sections	Protracted?
New Mexico	<input type="checkbox"/>					<input type="checkbox"/>
New Mexico	<input type="checkbox"/>	T _____	R _____	—	—	<input type="checkbox"/>
New Mexico	<input type="checkbox"/>	T _____	R _____	—	—	<input type="checkbox"/>
New Mexico	<input type="checkbox"/>	T _____	R _____	—	—	<input type="checkbox"/>

7. PHYSICAL DESCRIPTION

Site Dimensions: 32 x 30 meters Basis for Dimensions (choose one): ☐ estimated ☒ measured

Site Area: 960 sq m Basis for Area (choose one): ☐ estimated ☒ measured Elevation: 7004 feet

Site Boundaries Complete? (choose one): ☒ Yes ☐ No (explain): _____

Basis for Site Boundaries: ☒ distribution of archeological features & artifacts ☐ modern features or ground disturbance
☐ property lines ☐ topographic features ☐ other (specify): _____

Depositional/Erosional Environment: ☒ alluvial ☐ aeolian ☒ colluvial ☐ residual ☐ no deposition (on bedrock)
☐ other process (describe): _____

Stratigraphy & Depth of Archeological Deposits (choose one): ☐ unknown/not determined

☒ no subsurface deposits present ☐ subsurface deposits present ☐ stratified subsurface deposits present

Estimated Depth of Deposits: _____

Basis for Depth Determinations: ☐ estimated ☐ shovel/trowel tests ☐ core/auger tests ☐ excavations
☐ road or arroyo cuts ☐ rodent burrows ☐ other observations (describe): _____

Observations on Subsurface Archeological Deposits: _____

Local Vegetation (list species in decreasing order of dominance):

Overstory: Pinyon pine, juniper

Understory: sagebrush, snakeweed, grama grass, rabbitbrush, prickly pear cacti.

Vegetation Community (choose one or two): ☐ forest ☒ woodland ☐ grassland ☐ scrubland ☐ desert scrubland ☐ marshland
☐ other community (specify): _____

Topographic Location:

<input type="checkbox"/> bench	<input type="checkbox"/> dune	<input type="checkbox"/> low rise	<input type="checkbox"/> ridge
<input type="checkbox"/> alluvial fan	<input type="checkbox"/> blowout	<input type="checkbox"/> flood plain/valley	<input type="checkbox"/> mesa/butte
<input type="checkbox"/> arroyo/wash	<input type="checkbox"/> canyon rim	<input type="checkbox"/> foothill/mountain front	<input type="checkbox"/> mountain
<input type="checkbox"/> badlands	<input type="checkbox"/> cave	<input checked="" type="checkbox"/> hill slope	<input type="checkbox"/> open canyon floor
<input type="checkbox"/> base of cliff	<input type="checkbox"/> cliff/scarp/bluff	<input type="checkbox"/> hill top	<input type="checkbox"/> plain/flat
<input type="checkbox"/> base of talus slope	<input type="checkbox"/> constricted canyon	<input type="checkbox"/> lava flow (malpais)	<input type="checkbox"/> playa
<input type="checkbox"/> other location (describe): _____			

Observations on Site Setting: site is located on the north slope of an unnamed west-oriented ridge

8. ASSEMBLAGE DATA

Assemblage Content (all components):

Lithics:

- ☒ lithic debitage
☐ chipped-stone tools
☐ diagnostic projectile points
☐ non-local lithic material
☐ stone-tool manufacturing items
 (cores, hammerstones, etc.)
☐ ground-stone tools
☐ other stone tools

☐ Other items (specify): _____

Prehistoric Ceramics

- ☐ whole ceramic vessels
☒ diagnostic ceramics
☒ other prehistoric ceramics

Historic Artifacts:

- ☐ diagnostic glass artifacts
☐ other glass artifacts
☐ diagnostic metal artifacts
☐ other metal artifacts
☐ whole ceramic vessel
☐ diagnostic ceramics
☐ other historic ceramics

Other Artifacts and Materials:

- ☐ bone tools
☐ faunal remains
☐ macrobotanical remains
☐ perishable artifacts
☐ ornaments
☐ figurines
☐ mineral specimens
☐ architectural stone
☐ burned adobe
☐ fire-cracked rock/burned caliche

Assemblage Size (all components):

artifact class	estimated frequency						*Counts (if <100)
	0	1s	10s	100s	1000s	>10,000	
lithic artifacts (choose one): (include debitage)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>2</u>
prehistoric ceramics (choose one):	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
historic artifacts (choose one):	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>0</u>
total assemblage size (choose one):	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Dating Potential:

- ☐ radiocarbon ☐ dendrochronology ☐ archeomagnetism ☐ obsidian hydration
☒ relative techniques (e.g. seriation, diagnostics, etc.) ☐ other methods (specify): _____

Assemblage Remarks: Artifacts consist of 100+ ceramics sherds including Red Mesa, Gallup, Puerco, and Escavada black on whites, Kana-a grey, Chaco corrugated, Puerco black on red, and numerous other unidentifiable white, grey, and red ware sherds. Lithic artifacts were two Zuni spotted chert primary flakes.

9. CULTURAL/TEMPORAL AFFILIATIONS

TOTAL NUMBER OF COMPONENTS DEFINED: 1

COMPONENT #1 (EARLIEST)

Cultural Affiliation: Anasazi Prehistoric

Basis for Temporal Affiliations (choose one):

- ☐ not applicable ☐ based on associated chronometric data or historic records
☒ associated diagnostic artifact or feature types ☒ based on analytically derived assemblage data or archeological experience

*Period of Occupation: (*see NMCRIS Guidelines for valid periods, default occupation dates, and phase/complex names)

Period Name

Begin Date

End Date

Earliest Period:

Pueblo I700 AD1100 AD

Latest Period (if any):

Pueblo II

Dating Status:

- ☐ radiocarbon ☐ dendrochronology ☐ archaeomagnetism ☐ obsidian hydration
☒ relative techniques (e.g. seriation, diagnostics, etc.) ☐ other methods (specify): _____

Basis for Cultural/Temporal Affiliation: Surficial artifact scatter with diagnostic artifactsComponent Type: Artifact scatterRemarks: Artifact scatter with no features, function unknown.

*Associated Phase/Complex Name(s): _____

COMPONENT #2

Cultural Affiliation: _____

Basis for Temporal Affiliations (choose one): ☐ not applicable ☐ based on associated chronometric data or historic records
☐ associated diagnostic artifact or feature types ☐ based on analytically derived assemblage data or archeological experience

***Period of Occupation:** (*see NMCRIS Guidelines for valid periods, default occupation dates, and phase/complex names)

Period Name	Begin Date	End Date
-------------	------------	----------

Earliest Period: _____

Latest Period (if any): _____

Dating Status: ☐ radiocarbon ☐ dendrochronology ☐ archaeomagnetism ☐ obsidian hydration
☐ relative techniques (e.g. seriation, diagnostics, etc.) ☐ other methods (specify): _____

Basis for Cultural/Temporal Affiliation:

Component Type: _____

Remarks:

*Associated Phase/Complex Name(s):

10. FEATURE DATA

(see NMCRIS User's guide for a list of valid feature types)

[illegible]

Feature Remarks:

11. REFERENCES

Written Sources of Information: DCRM 2013-55: A Cultural Resources Inventory of Five Proposed Borrow Pits for MWH Global in the NECR Mine Area, McKinley County, New Mexico. Dinetahdoo Cultural Resources Management, Huerfano, NM.

Additional Sources of Information:

12. NARRATIVE DESCRIPTION

LA177466/NM-Q-21-122 is an Anasazi PI-PII artifact scatter. No features were identified or recorded during the inventory.

DCRM archaeologists did not identify a concentration of artifacts or an identifiable midden, rather, artifacts were observed to be scattered throughout the site area. Artifacts consist of 100+ ceramics sherds including Red Mesa, Gallup, Puerco, and Escavada black on whites, Kana-a grey, Chaco corrugated, Puerco black on red, and numerous other unidentifiable white, grey, and red ware sherds. Lithic artifacts included two Zuni spotted chert primary flakes. No other artifacts were observed or recorded. DCRM archaeologists noted that many of the artifacts are being redeposited down gradient to the north by natural erosional processes. An in-field, non-intrusive assessment determined that LA177466/NM-Q-21-122 does not contain any subsurface cultural materials.

13. SITE RECORD ATTACHMENTS

- ☒ site location map (USGS 7.5' topo; required) ☒ sketch map or site plan (required) ☐ continuation forms?
☐ other materials (itemize): _____

LABORATORY OF ANTHROPOLOGY SITE RECORD

1

1. IDENTIFICATION & OWNERSHIP

LA Number: 177467 (contact ARMS for site registration)

☐ Site Update? (complete at least Sections 1-4)

Site Name(s): MWH2

Other Site Number(s):

Agency Assigning Number:

NM-Q-21-123

Navajo Nation

Current Site Owner(s): Private

Site Type: Structural

Occupation Type: Prehistoric

2. RECORDING INFORMATION

NMCRIS Activity No.: 128978 Field Site Number: MWH2

Site Marker? ☒ (specify ID#): LA177467

Recorder(s): J. Begay

Agency: Dinetahdoo CRM Recording Date (dd-MMM-yyyy): 24-Oct-2013

Site Accessibility (choose one): ☒ accessible ☐ buried (sterile overburden) ☐ flooded ☐ urbanized ☐ not accessible

Surface Visibility (% visible; choose one): ☐ 0% ☐ 1-25% ☐ 26-50% ☐ 51-75% ☒ 76-99% ☐ 100%

Remarks: _____

Recording Activities:

☒ sketch mapping

☒ photography

☐ instrument mapping (e.g., total station mapping)

☐ shovel or trowel tests; probes

☐ surface collection (controlled or uncontrolled)

☐ test excavation

☒ in-field artifact analysis

☐ excavation (data recovery)

☐ other activities (specify): _____

Description of Analysis or Excavation Activities: Feature measurement and identification, ceramic identification, lithic artifact and materials analyzed in field; no excavation.

Photographic Documentation: color digital images -- 2 site overviews

Surface Collections (choose one):

☒ no surface collection

☐ uncontrolled surface collection

☐ collections of specific items only

☐ controlled (sample: <100%)

☐ controlled (complete: 100%)

☐ other method (describe): _____

Records Inventory:

☒ site location map

☐ excavation, collection, analysis records

☐ field journals, notes

☒ sketch map(s)

☒ photos, slides, and associated records

☐ NM Historic Building Inventory form

☐ instrument map(s)

☐ other records: _____

Repository for Original Records: Dinetahdoo CRM

Repository for Collected Artifacts: _____

3. CONDITION

Archaeological Status: ☐ surface collection ☐ test excavation ☐ partial excavation ☐ complete excavation

Disturbance Sources: ☐ wind erosion ☒ water erosion ☒ bioturbation ☐ vandalism ☐ construction/land development

☐ other source (specify): _____

Vandalism: ☐ defaced glyphs ☐ damaged/defaced building ☐ surface disturbance ☐ manual excavation

☐ mechanical excavation ☐ other vandalism (specify): _____

Percentage of Site Intact (choose one): ☐ 0% ☐ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-99% ☒ 100%

Observations on Site Condition: Site is intact with in situ artifact assemblage being redeposited down gradient by natural processes.

4. RECOMMENDATIONS (for Performer/Recorder use only)

National Register Eligibility (choose one): ☒ eligible ☐ not eligible ☐ not sure
Applicable Criteria: ☐ (a) ☐ (c) ☐ (b) ☒ (d)

Basis for Recommendation: Site can provide data regarding the prehistoric Anasazi PI-PII occupation, settlement patterns, subsistence strategies, religiosity, and resource exploitation of the greater Pinedale region.

Assessment of Project Impact: Site will be extensively marked to avoid disturbance, no impact.

Treatment Recommendations: Avoidance

5. SHPO CONSULTATIONS (for SHPO and Sponsor use only)

Sponsor NR Determination: ☐ eligible ☐ not eligible ☐ not determined Applicable Criteria: ☐ (a) ☐ (b) ☐ (c) ☐ (d)

Sponsor Staff: _____ Date (dd-MMM-yyyy): _____
day month year

Sponsor Remarks: _____

SHPO NR Concurrence: ☐ eligible ☐ not eligible ☐ not determined Applicable Criteria: ☐ (a) ☐ (b) ☐ (c) ☐ (d)

HPD Staff: _____ Date (dd-MMM-yyyy): _____ HPD Log No: _____
day month year

Register Status: ☐ listed on National Register ☐ listed on State Register ☐ formal determination of eligibility

State Register No.: _____

SHPO Remarks: _____

6. LOCATION**Source Graphics:**

- ☒ USGS 7.5' (1:24,000) topo maps ☐ rectified aerial photos [Scale: _____]
☐ other topo maps [Scale: _____] ☐ unrectified aerial photos [Scale: _____]
☐ GPS unit GPS accuracy (choose one): ☐ < 1.0 m ☐ 1-10 m ☐ 10-100 m ☐ >100 m
☐ other source (describe): _____

UTM Coordinates (@ center of site; at least one set of coordinates required):

Map-based Coordinates Datum: NAD83 Zone: _____

GPS-based Coordinates Datum: NAD83 Zone: _____

Directions to Site: _____
_____ on highway R-O-W? ☐

Town (if in city limits): _____ State: NM County: McKinley

USGS Quadrangle Name

Date

USGS Code

PLSS Meridian	Unplatted	Township	Range	Section	¼ Sections	Protracted?
New Mexico	<input type="checkbox"/>					<input type="checkbox"/>
New Mexico	<input type="checkbox"/>	T _____	R _____	—	—	<input type="checkbox"/>
New Mexico	<input type="checkbox"/>	T _____	R _____	—	—	<input type="checkbox"/>
New Mexico	<input type="checkbox"/>	T _____	R _____	—	—	<input type="checkbox"/>

7. PHYSICAL DESCRIPTION

Site Dimensions: 56 x 42 meters Basis for Dimensions (choose one): ☐ estimated ☒ measured

Site Area: 2,352 sq m Basis for Area (choose one): ☐ estimated ☒ measured Elevation: 7049 feet

Site Boundaries Complete? (choose one): ☒ Yes ☐ No (explain): _____

Basis for Site Boundaries: ☒ distribution of archeological features & artifacts ☐ modern features or ground disturbance
☐ property lines ☐ topographic features ☐ other (specify): _____

Depositional/Erosional Environment: ☒ alluvial ☐ aeolian ☒ colluvial ☐ residual ☐ no deposition (on bedrock)
☐ other process (describe): _____

Stratigraphy & Depth of Archeological Deposits (choose one): ☐ unknown/not determined
☐ no subsurface deposits present ☒ subsurface deposits present ☐ stratified subsurface deposits present

Estimated Depth of Deposits: 4m

Basis for Depth Determinations: ☒ estimated ☐ shovel/trowel tests ☐ core/auger tests ☐ excavations
☐ road or arroyo cuts ☐ rodent burrows ☐ other observations (describe): _____

Observations on Subsurface Archeological Deposits: _____

Local Vegetation (list species in decreasing order of dominance):
 Overstory: Pinyon pine, juniper
 Understory: sagebrush, snakeweed, grama grass, rabbitbrush, prickly pear cacti.

Vegetation Community (choose one or two): ☐ forest ☒ woodland ☒ grassland ☐ scrubland ☐ desert scrubland ☐ marshland
☐ other community (specify): _____

Topographic Location:

<input type="checkbox"/> bench	<input type="checkbox"/> dune	<input type="checkbox"/> low rise	<input type="checkbox"/> ridge
<input type="checkbox"/> alluvial fan	<input type="checkbox"/> blowout	<input type="checkbox"/> flood plain/valley	<input checked="" type="checkbox"/> mesa/butte
<input type="checkbox"/> arroyo/wash	<input type="checkbox"/> canyon rim	<input type="checkbox"/> foothill/mountain front	<input type="checkbox"/> mountain
<input type="checkbox"/> badlands	<input type="checkbox"/> cave	<input type="checkbox"/> hill slope	<input type="checkbox"/> open canyon floor
<input checked="" type="checkbox"/> base of cliff	<input type="checkbox"/> cliff/scarp/bluff	<input type="checkbox"/> hill top	<input type="checkbox"/> plain/flat
<input type="checkbox"/> base of talus slope	<input type="checkbox"/> constricted canyon	<input type="checkbox"/> lava flow (malpais)	<input type="checkbox"/> playa
<input type="checkbox"/> other location (describe): _____			<input type="checkbox"/> terrace

Observations on Site Setting: site is located at the south base of an unnamed mesa.

8. ASSEMBLAGE DATA

Assemblage Content (all components):

Lithics:

- ☒ lithic debitage
☒ chipped-stone tools
☐ diagnostic projectile points
☐ non-local lithic material
☒ stone-tool manufacturing items
 (cores, hammerstones, etc.)
☒ ground-stone tools
☐ other stone tools

☐ Other items (specify): _____

Prehistoric Ceramics

- ☐ whole ceramic vessels
☒ diagnostic ceramics
☒ other prehistoric ceramics

Historic Artifacts:

- ☐ diagnostic glass artifacts
☐ other glass artifacts
☐ diagnostic metal artifacts
☐ other metal artifacts
☐ whole ceramic vessel
☐ diagnostic ceramics
☐ other historic ceramics

Other Artifacts and Materials:

- ☐ bone tools
☐ faunal remains
☐ macrobotanical remains
☐ perishable artifacts
☐ ornaments
☐ figurines
☐ mineral specimens
☒ architectural stone
☐ burned adobe
☒ fire-cracked rock/burned caliche

Assemblage Size (all components):

artifact class	estimated frequency						*Counts (if <100)
	0	1s	10s	100s	1000s	>10,000	
lithic artifacts (choose one): (include debitage)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
prehistoric ceramics (choose one):	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
historic artifacts (choose one):	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>0</u>
total assemblage size (choose one):	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____

Dating Potential: ☐ radiocarbon ☐ dendrochronology ☒ archeomagnetism ☐ obsidian hydration
☒ relative techniques (e.g. seriation, diagnostics, etc.) ☐ other methods (specify): _____

Assemblage Remarks: 100,000+ ceramic sherds including types such as Kiatuthlanna, White Mound, Red Mesa, Gallup, Escavada, Puerco, and Chaco black on whites, Kana-a grey, Chaco and Coolidge corrugated, Puerco and Wingate black on red, and numerous unidentified white, grey, and red ware sherds too small to type. Lithic artifacts numbered 1,000+ and included flakes of all stages of reduction, tested, exhausted, and multifacial cores, hammer stones, projectile point fragments, uniface and biface tools, and retouched flakes of petrified wood, Zuni spotted, grey, brown, tan, and black chert, rose, brown, grey, and white quartz, and clear chalcedony. DCRM archaeologists also identified several one-hand and two-hand sandstone mano fragments as well as basin and trough metate fragments and 200+ fire-cracked and altered sandstone rock fragments.

9. CULTURAL/TEMPORAL AFFILIATIONS

TOTAL NUMBER OF COMPONENTS DEFINED: 1

COMPONENT #1 (EARLIEST)

Cultural Affiliation: Anasazi Prehistoric

Basis for Temporal Affiliations (choose one): ☐ not applicable ☐ based on associated chronometric data or historic records
☒ associated diagnostic artifact or feature types ☒ based on analytically derived assemblage data or archeological experience
 *Period of Occupation: (*see NMCRIS Guidelines for valid periods, default occupation dates, and phase/complex names)

	Period Name	Begin Date	End Date
Earliest Period:	<u>Pueblo I</u>	<u>700 AD</u>	<u>1100 AD</u>
Latest Period (if any):	<u>Pueblo II</u>		

Dating Status: ☐ radiocarbon ☐ dendrochronology ☐ archaeomagnetism ☐ obsidian hydration
☒ relative techniques (e.g. seriation, diagnostics, etc.) ☐ other methods (specify): _____

Basis for Cultural/Temporal Affiliation: Habitation site with temporally diagnostic features and artifacts.

Component Type: Multiple residence

Remarks: Habitation site with residential structure and associated features.

*Associated Phase/Complex Name(s): _____

COMPONENT #2

Cultural Affiliation: _____

Basis for Temporal Affiliations (choose one): ☐ not applicable ☐ based on associated chronometric data or historic records
☐ associated diagnostic artifact or feature types ☐ based on analytically derived assemblage data or archeological experience
 *Period of Occupation: (*see NMCRIS Guidelines for valid periods, default occupation dates, and phase/complex names)

	Period Name	Begin Date	End Date
Earliest Period:	_____	_____	_____
Latest Period (if any):	_____		

Dating Status: ☐ radiocarbon ☐ dendrochronology ☐ archaeomagnetism ☐ obsidian hydration
☐ relative techniques (e.g. seriation, diagnostics, etc.) ☐ other methods (specify): _____

Basis for Cultural/Temporal Affiliation: _____

Component Type: _____

Remarks: _____

*Associated Phase/Complex Name(s): _____

10. FEATURE DATA

(see NMCRIS User's guide for a list of valid feature types)

Feature Type	Reliable ID ?	# Observed	Assoc. Comp. #s	Feature ID, Notes
Roomblock	Yes	1	1	Collapsed L-shaped unit pueblo measuring 30 x 6m with at least eight to ten rooms.
Depression	Yes	1	2	Depression measuring 6m in diameter and 70cm in depth containing the buried remnants of a kiva or pithouse.
Plaza	Yes	1	3	Plaza measuring 15 x 12m with a scattering of associated ceramics.
Midden	Yes	1	4	Midden measuring 37 x 15m containing over 100,000 artifacts and ash-stained soils.
Hearth	Yes	3	5, 6, 7	Three hearths measuring 1m in diameter with a concentration of ash-stained soil and associated oxidized sandstone fragments.

Feature Remarks: _____

11. REFERENCES

Written Sources of Information: DCRM 2013-55: A Cultural Resources Inventory of Five Proposed Borrow Pits for MWH Global in the NECR Mine Area, McKinley County, New Mexico. Dinetahdoo Cultural Resources Management, Huerfano, NM.

Additional Sources of Information: _____

12. NARRATIVE DESCRIPTION

LA177467 is an Anasazi PI-PII habitation with seven recorded features.

Feature 1 is a collapsed L-shaped unit pueblo measuring 30 x 6m and oriented to the east. It is believed to contain at least eight to ten rooms buried beneath a considerable amount of sandstone detritus. The amount of sandstone materials suggests that the feature was constructed entirely of masonry. No wall alignments were apparent.

Feature 2 is a circular depression in front of feature 1 measuring 6m in diameter and 70cm in depth. DCRM archaeologists believe that feature 2 may contain the buried remnants of a kiva or pithouse.

Feature 3 is a plaza area encompassing feature 2 and just south of feature 1. Feature 3 measures 15 x 12m and appears to have been flattened from use by the prehistoric occupants. In and around feature 3 are scattered artifacts.

Feature 4 is a dense midden measuring 37 x 15m and containing thousands of artifacts. It may contain 100,000+ ceramic sherds, including Kiatuthlanna, White Mound, Red Mesa, Gallup, Escavada, Puerco, and Chaco Black-on-whites, Kana-a grey, Chaco and Coolidge corrugated, Puerco and Wingate Black-on-red, and numerous unidentified white, grey, and red wares too small to type. Lithic artifacts numbered 1,000+ and included flakes representing all stages of reduction; tested, exhausted, and multifacial cores; hammerstones; projectile point fragments; uniface and biface tools; and retouched flakes. Material types consist of petrified wood; Zuni spotted, grey, brown, tan, and black chert; rose, brown, grey, and white quartz; and clear chalcedony. DCRM archaeologists also identified several one-hand and two-hand sandstone mano fragments as well as basin and trough metate fragments and 200+ fire-cracked and -altered sandstone rock fragments. Many of the artifacts are being redeposited down gradient to the south by natural erosional processes.

Features 5, 6, and 7 are hearths located within feature 4. All three features measure 1m in diameter and consist of dark, ash-stained soil encircled by several oxidized sandstone fragments. No upright sandstone slabs were observed.

No other features were identified or recorded. DCRM archaeologists noted that LA177467 is in a pristine state with no evidence of tampering. Artifacts and materials from the structural features are being redeposited down gradient by natural erosional processes. An in-field, non-intrusive assessment determined that LA177467/NM-Q-21-123 may contain subsurface cultural materials up to 4m in depth.

13. SITE RECORD ATTACHMENTS

☒ site location map (USGS 7.5' topo; required) ☒ sketch map or site plan (required) ☐ continuation forms?
☐ other materials (itemize): _____

LABORATORY OF ANTHROPOLOGY SITE RECORD

1

1. IDENTIFICATION & OWNERSHIP

LA Number: 177468 (contact ARMS for site registration)☐ Site Update? (complete at least Sections 1-4)Site Name(s): MWH3

Other Site Number(s):

Agency Assigning Number:

NM-Q-21-124Navajo NationCurrent Site Owner(s): PrivateSite Type: StructuralOccupation Type: Prehistoric

2. RECORDING INFORMATION

NMCRIS Activity No.: 128978 Field Site Number: MWH3Site Marker? ☒ (specify ID#): LA177468Recorder(s): J. BegayAgency: Dinetahdoo CRM Recording Date (dd-MMM-yyyy): 24-Oct-2013Site Accessibility (choose one): ☒ accessible ☐ buried (sterile overburden) ☐ flooded ☐ urbanized ☐ not accessibleSurface Visibility (% visible; choose one): ☐ 0% ☐ 1-25% ☐ 26-50% ☐ 51-75% ☒ 76-99% ☐ 100%

Remarks: _____

Recording Activities:

☒ sketch mapping☒ photography☐ instrument mapping (e.g., total station mapping)☐ shovel or trowel tests; probes☐ surface collection (controlled or uncontrolled)☐ test excavation☒ in-field artifact analysis☐ excavation (data recovery)☐ other activities (specify): _____Description of Analysis or Excavation Activities: Feature measurement and identification, ceramic identification, lithic artifact and materials analyzed in field; no excavation.Photographic Documentation: color digital images -- 2 site overviews

Surface Collections (choose one):

☒ no surface collection☐ uncontrolled surface collection☐ collections of specific items only☐ controlled (sample: <100%)☐ controlled (complete: 100%)☐ other method (describe): _____

Records Inventory:

☒ site location map☐ excavation, collection, analysis records☐ field journals, notes☒ sketch map(s)☒ photos, slides, and associated records☐ NM Historic Building Inventory form☐ instrument map(s)☐ other records: _____Repository for Original Records: Dinetahdoo CRM

Repository for Collected Artifacts: _____

3. CONDITION

Archaeological Status: ☐ surface collection ☐ test excavation ☐ partial excavation ☐ complete excavationDisturbance Sources: ☐ wind erosion ☒ water erosion ☒ bioturbation ☒ vandalism ☐ construction/land development☐ other source (specify): _____

Vandalism:

☐ defaced glyphs☐ damaged/defaced building☒ surface disturbance☒ manual excavation☒ mechanical excavation☐ other vandalism (specify): _____

Percentage of Site Intact (choose one):

☐ 0%☐ 1-25%☐ 26-50%☒ 51-75%☐ 76-99%☐ 100%Observations on Site Condition: Site is largely intact with two areas (feature 2 and 4) impacted by mechanical and manual potting activities.

4. RECOMMENDATIONS (for Performer/Recorder use only)National Register Eligibility (choose one): ☒ eligible ☐ not eligible ☐ not sureApplicable Criteria: ☐ (a) ☐ (c) ☐ (b) ☒ (d)Basis for Recommendation: Site can provide data regarding the prehistoric Anasazi PI-PII occupation, settlement patterns, subsistence strategies, religiosity, and resource exploitation of the greater Pinedale region.Assessment of Project Impact: Site will be extensively marked to avoid disturbance, no impact.Treatment Recommendations: Avoidance**5. SHPO CONSULTATIONS (for SHPO and Sponsor use only)**Sponsor NR Determination: ☐ eligible ☐ not eligible ☐ not determined Applicable Criteria: ☐ (a) ☐ (b) ☐ (c) ☐ (d)

Sponsor Staff: _____ Date (dd-MMM-yyyy): _____ day _____ month _____ year

Sponsor Remarks: _____

SHPO NR Concurrence: ☐ eligible ☐ not eligible ☐ not determined Applicable Criteria: ☐ (a) ☐ (b) ☐ (c) ☐ (d)

HPD Staff: _____ Date (dd-MMM-yyyy): _____ day _____ month _____ year HPD Log No: _____

Register Status: ☐ listed on National Register ☐ listed on State Register ☐ formal determination of eligibility

State Register No.: _____

SHPO Remarks: _____

6. LOCATION

Source Graphics:

- ☒ USGS 7.5' (1:24,000) topo maps ☐ rectified aerial photos [Scale: _____]
☐ other topo maps [Scale: _____] ☐ unrectified aerial photos [Scale: _____]
☐ GPS unit GPS accuracy (choose one): ☐ < 1.0 m ☐ 1-10 m ☐ 10-100 m ☐ >100 m
☐ other source (describe): _____

UTM Coordinates (@ center of site; at least one set of coordinates required):

Map-based Coordinates Datum: NAD83 Zone: _____GPS-based Coordinates Datum: NAD83 Zone: _____

Directions to Site: _____

on highway R-O-W? ☐Town (if in city limits): _____ State: NM County: McKinley

USGS Quadrangle Name

Date

USGS Code

PLSS Meridian	Unplatted	Township	Range	Section	¼ Sections	Protracted?
New Mexico	<input type="checkbox"/>					
New Mexico	<input type="checkbox"/>	T _____	R _____	---	---	<input type="checkbox"/>
New Mexico	<input type="checkbox"/>	T _____	R _____	---	---	<input type="checkbox"/>
New Mexico	<input type="checkbox"/>	T _____	R _____	---	---	<input type="checkbox"/>

7. PHYSICAL DESCRIPTION

Site Dimensions: 37 x 39 meters Basis for Dimensions (choose one): ☐ estimated ☒ measured

Site Area: 1,443 sq m Basis for Area (choose one): ☐ estimated ☒ measured Elevation: 7049 feet

Site Boundaries Complete? (choose one): ☒ Yes ☐ No (explain): _____

Basis for Site Boundaries: ☒ distribution of archeological features & artifacts ☐ modern features or ground disturbance
☐ property lines ☐ topographic features ☐ other (specify): _____

Depositional/Erosional Environment: ☐ alluvial ☐ aeolian ☒ colluvial ☐ residual ☐ no deposition (on bedrock)
☐ other process (describe): _____

Stratigraphy & Depth of Archeological Deposits (choose one): ☐ unknown/not determined
☐ no subsurface deposits present ☒ subsurface deposits present ☒ stratified subsurface deposits present

Estimated Depth of Deposits: 4m

Basis for Depth Determinations: ☒ estimated ☐ shovel/trowel tests ☐ core/auger tests ☐ excavations
☐ road or arroyo cuts ☐ rodent burrows ☒ other observations (describe): illegal excavation pits

Observations on Subsurface Archeological Deposits: _____

Local Vegetation (list species in decreasing order of dominance):
 Overstory: Pinon pine, juniper
 Understory: sagebrush, snakeweed, grama grass, rabbitbrush, prickly pear cacti.

Vegetation Community (choose one or two): ☐ forest ☒ woodland ☒ grassland ☐ scrubland ☐ desert scrubland ☐ marshland
☐ other community (specify): _____

Topographic Location:

<input type="checkbox"/> alluvial fan	<input type="checkbox"/> bench	<input type="checkbox"/> dune	<input type="checkbox"/> low rise	<input checked="" type="checkbox"/> ridge
<input type="checkbox"/> arroyo/wash	<input type="checkbox"/> blowout	<input type="checkbox"/> flood plain/valley	<input type="checkbox"/> mesa/butte	<input type="checkbox"/> rockshelter
<input type="checkbox"/> badlands	<input type="checkbox"/> canyon rim	<input type="checkbox"/> foothill/mountain front	<input type="checkbox"/> mountain	<input type="checkbox"/> saddle
<input type="checkbox"/> base of cliff	<input type="checkbox"/> cave	<input type="checkbox"/> hill slope	<input type="checkbox"/> open canyon floor	<input type="checkbox"/> talus slope
<input type="checkbox"/> base of talus slope	<input type="checkbox"/> cliff/scarp/bluff	<input checked="" type="checkbox"/> hill top	<input type="checkbox"/> plain/flat	<input type="checkbox"/> terrace
<input type="checkbox"/> other location (describe): _____	<input type="checkbox"/> constricted canyon	<input type="checkbox"/> lava flow (malpais)	<input type="checkbox"/> playa	

Observations on Site Setting: site is located on a spur of an unnamed west-oriented ridge.

8. ASSEMBLAGE DATA

Assemblage Content (all components):

Lithics:

- ☒ lithic debitage
☒ chipped-stone tools
☐ diagnostic projectile points
☐ non-local lithic material
☒ stone-tool manufacturing items
 (cores, hammerstones, etc.)
☒ ground-stone tools
☐ other stone tools

☐ Other items (specify): _____

Prehistoric Ceramics

- ☐ whole ceramic vessels
☒ diagnostic ceramics
☒ other prehistoric ceramics

Historic Artifacts:

- ☐ diagnostic glass artifacts
☐ other glass artifacts
☐ diagnostic metal artifacts
☐ other metal artifacts
☐ whole ceramic vessel
☐ diagnostic ceramics
☐ other historic ceramics

Other Artifacts and Materials:

- ☐ bone tools
☐ faunal remains
☐ macrobotanical remains
☐ perishable artifacts
☐ ornaments
☐ figurines
☐ mineral specimens
☒ architectural stone
☐ burned adobe
☒ fire-cracked rock/burned caliche

Assemblage Size (all components):

artifact class	estimated frequency						*Counts (if <100)
	0	1s	10s	100s	1000s	>10,000	
lithic artifacts (choose one): (include debitage)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
prehistoric ceramics (choose one):	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
historic artifacts (choose one):	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0
total assemblage size (choose one):	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____

Dating Potential:

- ☐ radiocarbon ☐ dendrochronology ☒ archeomagnetism ☐ obsidian hydration
☒ relative techniques (e.g. seriation, diagnostics, etc.) ☐ other methods (specify): _____

Assemblage Remarks: 5,000+ ceramic sherds including types such as Kiatuthlanna, Red Mesa, Gallup, Escavada, and Puerco black on whites, Kana-a grey, Chaco and Coolidge corrugated, Puerco black on red, and numerous other unidentified white, grey, and red ware sherds too small to type. Lithic artifacts numbered 500+ and included flakes of all stages of reduction, tested and exhausted cores, hammer stones, and uniface and biface tools of petrified wood, Zuni spotted, grey, brown, tan, and black chert, and rose, brown, grey, and white quartz. DCRM archaeologists also identified several one-hand and two-hand sandstone mano fragments and 100+ fire-cracked and altered sandstone rock fragments.

9. CULTURAL/TEMPORAL AFFILIATIONS

TOTAL NUMBER OF COMPONENTS DEFINED: 1

COMPONENT #1 (EARLIEST)

Cultural Affiliation: Anasazi Prehistoric

Basis for Temporal Affiliations (choose one): ☐ not applicable ☐ based on associated chronometric data or historic records
☒ associated diagnostic artifact or feature types ☒ based on analytically derived assemblage data or archeological experience
 *Period of Occupation: (*see NMCRIS Guidelines for valid periods, default occupation dates, and phase/complex names)

	Period Name	Begin Date	End Date
Earliest Period:	<u>Pueblo I</u>	<u>700 AD</u>	<u>1100 AD</u>
Latest Period (if any):	<u>Pueblo II</u>		

Dating Status: ☐ radiocarbon ☐ dendrochronology ☐ archaeomagnetism ☐ obsidian hydration
☒ relative techniques (e.g. seriation, diagnostics, etc.) ☐ other methods (specify): _____

Basis for Cultural/Temporal Affiliation: Habitation site with temporally diagnostic features and artifacts.
 Component Type: Multiple residence
 Remarks: Habitation site with residential structure and associated features.
 *Associated Phase/Complex Name(s): _____

COMPONENT #2

Cultural Affiliation: _____

Basis for Temporal Affiliations (choose one): ☐ not applicable ☐ based on associated chronometric data or historic records
☐ associated diagnostic artifact or feature types ☐ based on analytically derived assemblage data or archeological experience
 *Period of Occupation: (*see NMCRIS Guidelines for valid periods, default occupation dates, and phase/complex names)

	Period Name	Begin Date	End Date
Earliest Period:	_____	_____	_____
Latest Period (if any):	_____		

Dating Status: ☐ radiocarbon ☐ dendrochronology ☐ archaeomagnetism ☐ obsidian hydration
☐ relative techniques (e.g. seriation, diagnostics, etc.) ☐ other methods (specify): _____

Basis for Cultural/Temporal Affiliation: _____
 Component Type: _____
 Remarks: _____
 *Associated Phase/Complex Name(s): _____

10. FEATURE DATA

(see NMCRIS User's guide for a list of valid feature types)

Feature Type	Reliable ID ?	# Observed	Assoc. Comp. #s	Feature ID, Notes
Roomblock	Yes	1	1	Unit pueblo measuring 19 x 14m consisting of at least ten to twelve buried rooms.
Depression	Yes	2	2,3	Kiva depressions measuring 6m in diameter. Feature 2 has been disturbed by illegal potting activities which have left an excavated pit in the middle of the feature.
Midden	Yes	1	4	Midden measuring 16 x 10m with a scattering of associated ceramics.
Hearth	Yes	1	5	Collapsed hearth measuring 1m in diameter consisting of ash-stained soil ringed by oxidized sandstone fragments.

Feature Remarks: _____

11. REFERENCES

Written Sources of Information: DCRM 2013-55: A Cultural Resources Inventory of Five Proposed Borrow Pits for MWH Global in the NECR Mine Area, McKinley County, New Mexico. Dinetahdoo Cultural Resources Management, Huerfano, NM.

Additional Sources of Information: _____

12. NARRATIVE DESCRIPTION

LA177468 is an Anasazi PI-PII habitation with five recorded features.

Feature 1 is a collapsed unit pueblo measuring 19 x 14m and consisting of scattered sandstone blocks and slabs covering at least ten to twelve rooms. No wall alignments were visible; however, the rubble mound covers a considerable amount of the ridge spur.

Located in the northern portion of feature 1 is feature 2, a kiva depression measuring 6m in diameter. Feature 2 is 1m deep and has been disturbed by illegal potting activities which have left an excavated pit in the middle of the feature. Feature 2 is composed of scattered sandstone blocks and slabs.

Feature 3 is a kiva depression measuring 6m in diameter, also consisting of scattered sandstone blocks and slabs. Feature 3 has not been disturbed by illegal activities.

Feature 4 is a midden in the east site area measuring 16 x 10m which contains 5,000+ ceramic sherds, including Kiatuthlanna, Red Mesa, Gallup, Escavada, and Puerco Black-on-whites, Kana-a grey, Chaco and Coolidge corrugated, Puerco Black-on-red, and numerous unidentified white, grey, and red ware sherds too small to type. Lithic artifacts numbered 500+ and included flakes representing all stages of reduction, tested and exhausted cores, hammerstones, and uniface and biface tools. Materials include petrified wood; Zuni spotted, grey, brown, tan, and black chert; and rose, brown, grey, and white quartz. DCRM archaeologists also identified several one-hand and two-hand sandstone mano fragments and 100+ fire-cracked and -altered sandstone rock fragments. Many of the artifacts being redeposited down gradient to the south by natural erosional processes. A trench measuring 13 x 2m has been excavated into the eastern side of the feature. The trench is most likely associated with illegal potting activities.

Feature 5 is a concentration of fire-cracked and -altered sandstone blocks and slabs measuring 1m in diameter. It may be the remains of a hearth.

No other features were observed or recorded. A bladed road on the eastern side of a fence line, outside the MWH property boundary, may have obliterated a portion of the site. An in-field, non-intrusive assessment determined that LA177468 may contain subsurface cultural materials up to 4m in depth..

13. SITE RECORD ATTACHMENTS

☒ site location map (USGS 7.5' topo; required) ☒ sketch map or site plan (required) ☐ continuation forms?
☐ other materials (itemize): _____

LABORATORY OF ANTHROPOLOGY SITE RECORD

1

1. IDENTIFICATION & OWNERSHIP

LA Number: 177469 (contact ARMS for site registration)☐ Site Update? (complete at least Sections 1-4)Site Name(s): MWH4

Other Site Number(s):

Agency Assigning Number:

NM-Q-20-61Navajo NationCurrent Site Owner(s): PrivateSite Type: StructuralOccupation Type: Prehistoric

2. RECORDING INFORMATION

NMCRIIS Activity No.: 128978 Field Site Number: MWH4Site Marker? ☒ (specify ID#): LA177469Recorder(s): J. BegayAgency: Dinetahdoo CRM Recording Date (dd-MMM-yyyy): 24-Oct-2013Site Accessibility (choose one): ☒ accessible ☐ buried (sterile overburden) ☐ flooded ☐ urbanized ☐ not accessibleSurface Visibility (% visible; choose one): ☐ 0% ☐ 1-25% ☐ 26-50% ☐ 51-75% ☒ 76-99% ☐ 100%

Remarks: _____

Recording Activities:

☒ sketch mapping☒ photography☐ instrument mapping (e.g., total station mapping)☐ shovel or trowel tests; probes☐ surface collection (controlled or uncontrolled)☐ test excavation☒ in-field artifact analysis☐ excavation (data recovery)☐ other activities (specify): _____Description of Analysis or Excavation Activities: Feature measurement and identification, ceramic identification, lithic artifact and materials analyzed in field; no excavation.Photographic Documentation: color digital images -- 2 site overviews

Surface Collections (choose one):

☒ no surface collection☐ uncontrolled surface collection☐ collections of specific items only☐ controlled (sample: <100%)☐ controlled (complete: 100%)☐ other method (describe): _____

Records Inventory:

☒ site location map☐ excavation, collection, analysis records☐ field journals, notes☒ sketch map(s)☒ photos, slides, and associated records☐ NM Historic Building Inventory form☐ instrument map(s)☐ other records: _____Repository for Original Records: Dinetahdoo CRM

Repository for Collected Artifacts: _____

3. CONDITION

Archaeological Status: ☐ surface collection ☐ test excavation ☐ partial excavation ☐ complete excavationDisturbance Sources: ☐ wind erosion ☒ water erosion ☒ bioturbation ☒ vandalism ☐ construction/land development☐ other source (specify): _____

Vandalism:

☐ defaced glyphs☐ damaged/defaced building☒ surface disturbance☒ manual excavation☒ mechanical excavation☐ other vandalism (specify): _____

Percentage of Site Intact (choose one):

☐ 0%☐ 1-25%☐ 26-50%☒ 51-75%☐ 76-99%☐ 100%Observations on Site Condition: Site has been heavily impacted by a large bulldozer out that has removed portions of features 1 and 2.

4. RECOMMENDATIONS (for Performer/Recorder use only)

National Register Eligibility (choose one): ☒ eligible ☐ not eligible ☐ not sure

Applicable Criteria: ☐ (a) ☐ (c)
☐ (b) ☒ (d)

Basis for Recommendation: Site can provide data regarding the prehistoric Anasazi PI-PIII occupation, settlement patterns, subsistence strategies, and resource exploitation of the greater Pinedale region.

Assessment of Project Impact: Site will be extensively marked to avoid disturbance, no impact.

Treatment Recommendations: Avoidance

5. SHPO CONSULTATIONS (for SHPO and Sponsor use only)

Sponsor NR Determination: ☐ eligible ☐ not eligible ☐ not determined **Applicable Criteria:** ☐ (a) ☐ (b) ☐ (c) ☐ (d)

Sponsor Staff: _____ Date (dd-MMM-yyyy):
day month year

Sponsor Remarks:

SHPO NR Concurrence: ☐ eligible ☐ not eligible ☐ not determined Applicable Criteria: ☐ (a) ☐ (b) ☐ (c) ☐ (d)

HPD Staff: _____ Date (dd-MMM-yyyy): _____ HPD Log No: _____

Register Status: ☐ listed on National Register ☐ listed on State Register ☐ formal determination of eligibility

State Register No.:

SHPO Remarks:

6. LOCATION

Source Graphics:

☒ USGS 7.5' (1:24,000) topo maps ☐ rectified aerial photos [Scale: _____]
☐ other topo maps [Scale: _____] ☐ unrectified aerial photos [Scale: _____]
☐ GPS unit GPS accuracy (choose one): ☐ < 1.0 m ☐ 1-10 m ☐ 10-100 m ☐ >100 m
☐ other source (describe): _____

UTM Coordinates (@ center of site; at least one set of coordinates required):

Map-based Coordinates Datum: NAD83 Zone:

GPS-based Coordinates Datum: NAD83 Zone:

Directions to Site:

In highway R-O-W?

Town (if in city limits): _____ State: NM County: McKinley

USGS Quadrangle Name

Date _____

USGS Code

PLSS Meridian	Unplatted	Township	Range	Section	¼ Sections	Protracted?
New Mexico	<input type="checkbox"/>					<input type="checkbox"/>
New Mexico	<input type="checkbox"/>	T _____	R _____	—	—	<input type="checkbox"/>
New Mexico	<input type="checkbox"/>	T _____	R _____	—	—	<input type="checkbox"/>
New Mexico	<input type="checkbox"/>	T _____	R _____	—	—	<input type="checkbox"/>

7. PHYSICAL DESCRIPTION

Site Dimensions: 43 x 31 meters Basis for Dimensions (choose one): ☐ estimated ☒ measured

Site Area: 1,333 sq m Basis for Area (choose one): ☐ estimated ☒ measured Elevation: 6973 feet

Site Boundaries Complete? (choose one): ☒ Yes ☐ No (explain): _____

Basis for Site Boundaries: ☒ distribution of archeological features & artifacts ☐ modern features or ground disturbance
☐ property lines ☐ topographic features ☐ other (specify): _____

Depositional/Erosional Environment: ☒ alluvial ☐ aeolian ☐ colluvial ☐ residual ☐ no deposition (on bedrock)
☐ other process (describe): _____

Stratigraphy & Depth of Archeological Deposits (choose one): ☐ unknown/not determined

☐ no subsurface deposits present ☒ subsurface deposits present ☒ stratified subsurface deposits present

Estimated Depth of Deposits: 4m

Basis for Depth Determinations: ☒ estimated ☐ shovel/trowel tests ☐ core/auger tests ☐ excavations

☐ road or arroyo cuts ☐ rodent burrows ☒ other observations (describe): illegal excavation pits

Observations on Subsurface Archeological Deposits: _____

Local Vegetation (list species in decreasing order of dominance):

Overstory: Pinyon pine, juniper

Understory: sagebrush, snakeweed, grama grass, rabbitbrush, prickly pear cacti.

Vegetation Community (choose one or two): ☐ forest ☒ woodland ☒ grassland ☐ scrubland ☐ desert scrubland ☐ marshland
☐ other community (specify): _____

Topographic Location:

<input type="checkbox"/> bench	<input type="checkbox"/> dune	<input type="checkbox"/> low rise	<input checked="" type="checkbox"/> ridge
<input type="checkbox"/> alluvial fan	<input type="checkbox"/> blowout	<input type="checkbox"/> flood plain/valley	<input type="checkbox"/> rockshelter
<input type="checkbox"/> arroyo/wash	<input type="checkbox"/> canyon rim	<input type="checkbox"/> foothill/mountain front	<input type="checkbox"/> mesa/butte
<input type="checkbox"/> badlands	<input type="checkbox"/> cave	<input checked="" type="checkbox"/> hill slope	<input type="checkbox"/> mountain
<input type="checkbox"/> base of cliff	<input type="checkbox"/> cliff/scarp/bluff	<input type="checkbox"/> hill top	<input type="checkbox"/> open canyon floor
<input type="checkbox"/> base of talus slope	<input type="checkbox"/> constricted canyon	<input type="checkbox"/> lava flow (malpais)	<input type="checkbox"/> plain/flat
<input type="checkbox"/> other location (describe): _____		<input type="checkbox"/> playa	<input type="checkbox"/> saddle
			<input type="checkbox"/> talus slope
			<input type="checkbox"/> terrace

Observations on Site Setting: site is located on the north slope of an unnamed east to west oriented ridge.

8. ASSEMBLAGE DATA

Assemblage Content (all components):

Lithics:

- ☒ lithic debitage
☐ chipped-stone tools
☐ diagnostic projectile points
☐ non-local lithic material
☒ stone-tool manufacturing items
 (cores, hammerstones, etc.)
☒ ground-stone tools
☐ other stone tools

☐ Other items (specify): _____

Prehistoric Ceramics

- ☐ whole ceramic vessels
☒ diagnostic ceramics
☒ other prehistoric ceramics

Historic Artifacts:

- ☐ diagnostic glass artifacts
☐ other glass artifacts
☐ diagnostic metal artifacts
☐ other metal artifacts
☐ whole ceramic vessel
☐ diagnostic ceramics
☐ other historic ceramics

Other Artifacts and Materials:

- ☐ bone tools
☐ faunal remains
☐ macrobotanical remains
☐ perishable artifacts
☐ ornaments
☐ figurines
☐ mineral specimens
☒ architectural stone
☐ burned adobe
☒ fire-cracked rock/burned caliche

Assemblage Size (all components):

artifact class	estimated frequency						*Counts (if <100)
	0	1s	10s	100s	1000s	>10,000	
lithic artifacts (choose one): (include debitage)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
prehistoric ceramics (choose one):	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
historic artifacts (choose one):	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0
total assemblage size (choose one):	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Dating Potential:

- ☐ radiocarbon ☐ dendrochronology ☒ archeomagnetism ☐ obsidian hydration
☒ relative techniques (e.g. seriation, diagnostics, etc.) ☐ other methods (specify): _____

Assemblage Remarks: 200+ ceramic sherds, including Red Mesa, Gallup, Escavada, and Puerco Black-on-whites, Chaco and Coolidge corrugated, Puerco Black-on-red, and unidentified white, grey, and red ware sherds too small to type. Lithic artifacts numbered 50+ and included flakes representing all stages of reduction, tested cores, and hammerstones. Materials consisted of Zuni Spotted, grey, and white chert; petrified wood; and rose, brown, and grey quartz. Four mano fragments were also observed within the midden as well as 100+ fragments of fire-cracked and altered rock.

9. CULTURAL/TEMPORAL AFFILIATIONS

TOTAL NUMBER OF COMPONENTS DEFINED: 1

COMPONENT #1 (EARLIEST)

Cultural Affiliation: Anasazi Prehistoric

Basis for Temporal Affiliations (choose one):

- ☐ not applicable ☐ based on associated chronometric data or historic records
☒ associated diagnostic artifact or feature types ☒ based on analytically derived assemblage data or archeological experience

*Period of Occupation: (*see NMCRIS Guidelines for valid periods, default occupation dates, and phase/complex names)

	Period Name	Begin Date	End Date
Earliest Period:	<u>Pueblo I</u>	<u>700 AD</u>	<u>1100 AD</u>
Latest Period (if any):	<u>Pueblo II</u>		

Dating Status:

- ☐ radiocarbon ☐ dendrochronology ☐ archaeomagnetism ☐ obsidian hydration
☒ relative techniques (e.g. seriation, diagnostics, etc.) ☐ other methods (specify): _____

Basis for Cultural/Temporal Affiliation: Habitation site with temporally diagnostic features and artifacts.

12. NARRATIVE DESCRIPTION

LA177469/NM-Q-20-61 is an Anasazi PI-PII habitation with two recorded features.

Feature 1 is a disturbed roomblock measuring 19 x 11m and consisting of scattered sandstone slabs and blocks and two walls exposed in a bulldozer cut. Both walls consist of unshaped sandstone slabs and blocks set in mud mortar, three courses high. The cut extends 1.5m below the surface at its deepest point. Feature 1 contained a minimum of six rooms before the feature was vandalized.

Feature 2 is a midden measuring 9 x 5m that has also been impacted by the bulldozer cut. It contains 200+ sherds, including Red Mesa, Gallup, Escavada, and Puerco Black-on-whites, Chaco and Coolidge corrugated, Puerco Black-on-red, and unidentified white, grey, and red ware sherds too small to type. Lithic artifacts numbered 50+ and included flakes representing all stages of reduction, tested cores, and hammerstones of Zuni spotted, grey, and white chert; petrified wood; and rose, brown, and grey quartz. Four mano fragments were also observed within the midden as well as 100+ fragments of fire-cracked and -altered rock. Feature 2 has been disturbed on the southeast side by the bulldozer cut that impacted feature 1. As a result of the disturbance, a thin lens of ash-stained soil was exposed in the north wall of the cut.

No other features were identified or recorded. DCRM archaeologists were unable to determine when the impact to the site occurred, although it is believed that 50% of the site remains undisturbed. An in-field, non-intrusive assessment determined that LA177469/NM-Q-20-61 does retain subsurface cultural materials possibly up to 4m in depth.

13. SITE RECORD ATTACHMENTS

- ☒ site location map (USGS 7.5' topo; required) ☒ sketch map or site plan (required) ☐ continuation forms?
☐ other materials (itemize): _____



LA 177466

Looking South

LA 177466

Looking East



LA 177467
Looking North

LA 177467
Looking West

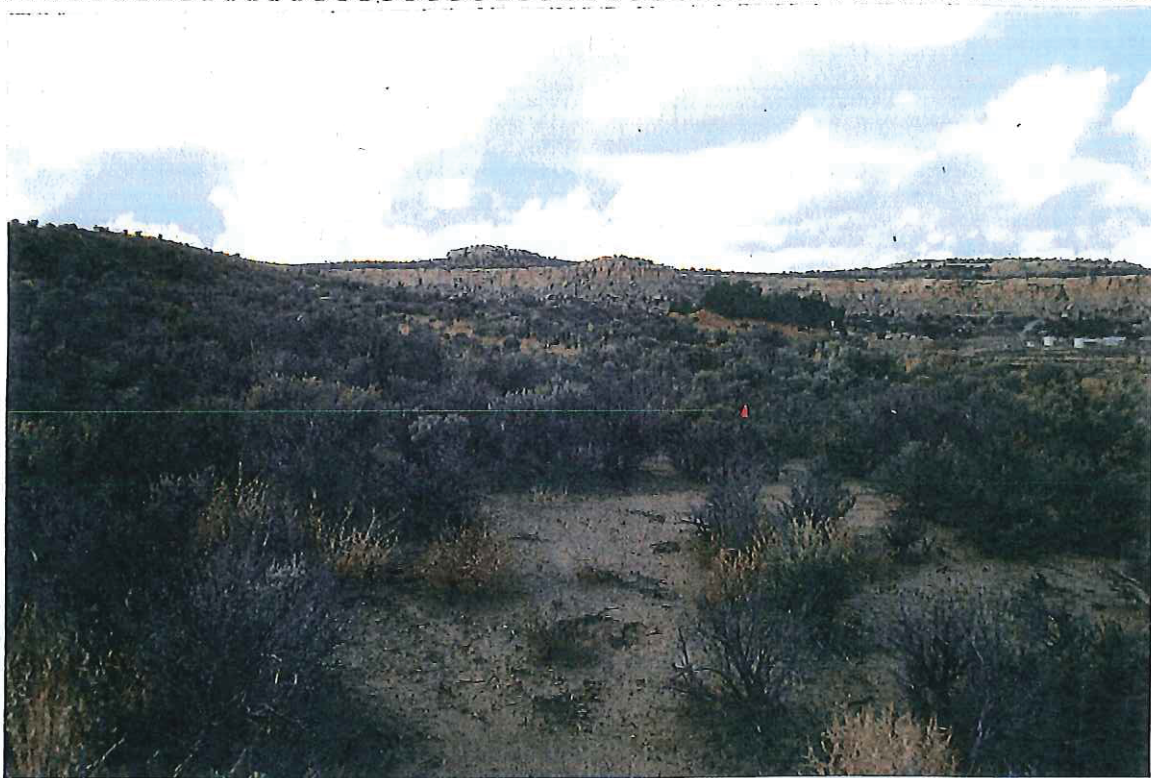


LA 177468

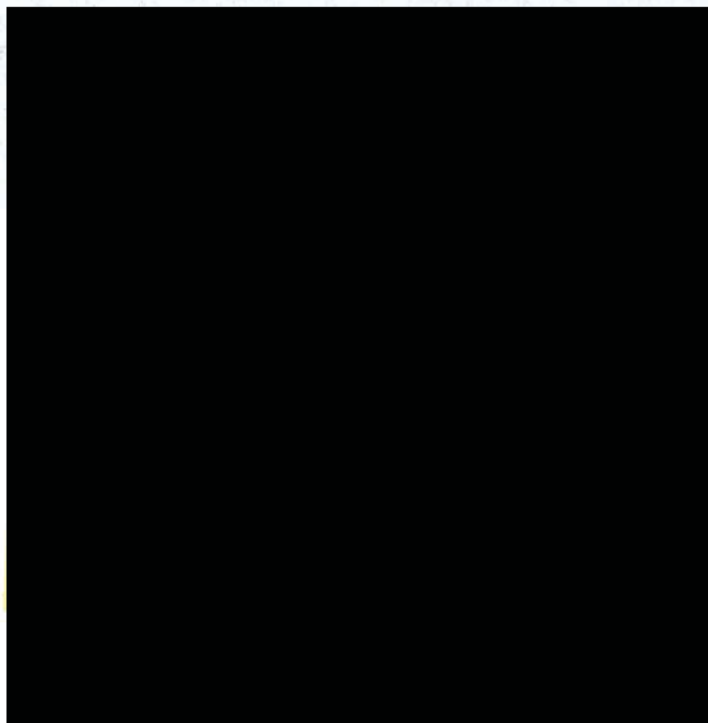
Looking North

LA 177468

Looking West



LA 177469
Looking North



LA 177469
Looking West