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Archaeological Inventory, Site Assessment, and Data Management, Lake Mead National Recreation Area (LMNRA) and Parashant National Monument (PARA): Quarterly Progress Report, Period Ending March 31, 2008

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Date: April 1, 2008

To: Steve Daron, Park Archaeologist
National Park Service – Government Technical Representative

E-Copy: Dr. Angela Evenden, NPS CESU Research Coordinator
Tami Lucero, SNAP Partnership Specialist
Kent Turner, National Park Service
Dr. Karen Harry, Principal Investigator
Dr. Gregory Haynes, Post-doctoral Scholar

From: Dr. Margaret N. Rees [REDACTED]
Executive Director, Public Lands Institute

Re: April 1, 2008, Year 2 Second Quarter Report:
Task Agreement #J8R07060013

Please find the attached Second Quarter Report for Year 2 of the project titled “Archaeological Inventory, Site Assessment, and Data Management, Lake Mead National Recreation Area and Parashant National Monument.”

The submitted report reflects activities for the period January 1 through March 31, 2008 and provides a brief summary of all work performed for each project in this phase of the agreement.

If you have any questions after reviewing this report, please do not hesitate to call me at (702) 895-3890.

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QUARTERLY PROGRESS REPORT

University of Nevada, Las Vegas
Period Ending March 31, 2008

Cooperative Agreement Number H8R07060001
Task Agreement Number J8R07060013

Archaeological Inventory, Site Assessment, and Data Management, Lake Mead National Recreation Area (LMNRA) and Parashant National Monument (PARA)

Executive Summary

- Completed field work at the historic town site of Saint Thomas; monitored 151 features, recorded 5 new features, scale drawings made for 27 features.
- Completed archaeological inventory on 730 acres associated with the Capital Improvement Project and completed documentation on 2 archaeological sites.
- Completed archaeological inventory on 465 acres associated with the Lost City Project and completed documentation for 13 archaeological sites.
- Completed a total of 29 condition assessments, with more to be completed on PARA by the end of the reporting period.

Summary of Attachments

Saint Thomas Feature Monitoring and Assessment Summary
Saint Thomas Feature Drawing Summary
Site Condition Assessment Summary

Program Activities

Preserve America Project 1A: Saint Thomas

A complete site condition assessment was accomplished at the historic town site of Saint Thomas in January. Condition assessments were conducted on all 151 previously recorded features (see attached, Table 1). This work included not only filling out the condition assessment form for each feature, but also reduplicating digital photographs from established photo points. Only minor disturbance/damage was identified as a result of this work; no major disturbance/damage was found. Scale drawings, along with digital photographs, were also completed for 27 features, 7 more than specified in the task agreement (see attached, Table 2). All electronic and hard-copy data have been entered into specialized Saint Thomas databases.

To summarize the results of long-term monitoring efforts at Saint Thomas, of the 151 features identified at the site, 125 features have been documented/monitored for three years (Features 1-129, 2003-2008), 21 have been documented/monitored for two years (Features 130-151, 2007-2008), and 5 for only one year (Features 152-156, 2008). Of these features, 35 (23%) are in poor condition or less than 25% of each of these features remain intact, 44 (29%) are in fair condition or have between 25-75% of each feature intact, while 72 (48%) remain in good condition with more than 75% of each feature intact. The overwhelming majority of damage/disturbance affecting these features is the pervasive growth of tamarisk. Besides this, however, 18 other types of impacts have affected features at Saint Thomas, including:

Natural Disturbances (= Number of Occurrences)

Stains	= 1
Wood Rot	= 1
Stream Cut	= 1
Sand Accumulation	= 1
Holes/Pits	= 2
General Erosion	= 2
Structural Undercutting	= 3
Wave Action/Dispersion	= 5
Rodent/Animal Activity	= 12
<u>Structural Collapse</u>	<u>= 13</u>
TOTAL	= 41

Man-Made Disturbances (= Number of Occurrences)

Illegal Excavation	= 1 (Feature 74, foundation outline)
Vehicle Tracks	= 1
Fire	= 2
Rust from “Safeing”	= 4
Litter	= 4
Footprints	= 5
Trail Construction	= 6
<u>Surface Collection</u>	<u>= 13</u>
TOTAL	= 36

In addition, preventive maintenance was performed on two features this year: Feature 3, a cement foundation, and Feature 17, a covered water diversion channel. In the case of Feature 3, last year’s assessment found part of the foundation undercut by erosion, so dirt was shoveled underneath the foundation to shore it up. For Feature 17, visitors walking across the top of the feature had caused a cement cap to fracture. Four metal posts with a connecting chain were emplaced to discourage visitors from walking across this feature. Finally, most of the cisterns remain open and some even contain water. These features pose real threats to visitor safety and need to be sealed in some fashion. Monitoring efforts have identified at least 12 cisterns that pose a threat to visitor safety.

Preserve America Project 1B: Lake Mead Website Cultural Resource Information Review and Update

Work on this project continues to proceed with monthly meetings between NPS ATR Steve Daron, Program Manager Greg Haynes, and Research Assistant Steph Velasquez. During this quarter, web text and graphics for the following topics have been reviewed and updated by the Park Service: Daniel Bonelli, Anson Call/Callville Bay, the Civilian Conservation Corps and Elwood Mead. Web text and graphics that cover Mark Raymond Harrington, Pueblo Grande de Nevada (i.e., Lost City), and the Overton Arm salt mines also have been reviewed by NPS personnel, while draft pages for both the Boulder Basin and Overton Arm overviews, impacts at archaeological sites, the B-29 and a new Culture/History web page introduction are still under review. Finally, draft text for the Newberry Mountains/Grapevine Canyon and for the prehistoric culture overview at Lake Mead has been completed. It is important to stress that the content of each Web page, in terms of related texts and graphics, is being conducted in close coordination with NPS ATR Daron. The issue of if and when this information gets posted on Lake Mead's official Website is entirely up to the Park Service.

Preserve America Project 1C: Evaluation of Site 26Ck4943

All of 71 artifacts collected from this site during the 2005 monitoring event (n=14) and during the recent test excavation program (n=56) were entered into the NPS ANSC+ catalog system. These artifacts were appropriately packaged and stored in the curation facility at LMNRA under the direction of Cultural Resources Branch Chief Rosie Pepito. Results of specialized macro- and micro-botanical laboratory analyses currently being conducted by the Paleo Research Institute in Golden, Colorado, are scheduled for completion by the end of this reporting period.

Project 2: Site Condition Assessments

A total of 29 site condition assessments have been completed so far for this project (see attached, Table 3). However, the condition of only 2 sites on LMNRA was assessed this quarter, while condition assessments for 17 other sites on Lake Mead NRA failed to get reported last quarter. Of these 29 sites, 23 are in *GOOD* condition. One site is in *FAIR* condition, a result of damage caused by off-road vehicle recreation and erosion. In consultation with Park Archaeologist, Steve Daron, 6 other sites have been classified as a *Local Resource*. All condition assessment information has been updated in ASMIS and the completed hard-copy form filed with each site's official record. A joint PLI-NPS archaeological field crew is scheduled to conduct site condition assessments in the Grand Wash/Tassi Ranch area on PARA before the end of this reporting period.

Project 3: NPS Fire Management Projects (PARA)

All of the deliverables identified in Phase 1 and Phase 2 for the Andrus Burn Unit project are complete, as stated previously in the FY07 Year End Report. The Twin South Fuels Treatment Unit (Project 3.B: Fire Management Projects) will no longer take place as originally formulated in the task agreement. It is likely that this specific parcel will still be inventoried, but it will be done in conjunction with another fuel reduction project. The agency fire program has yet to identify exactly what parcels on PARA will be slated for fuel reduction program clearance this fiscal year.

Project 4A: UNLV Archaeological Field School on the Shivwits Plateau

A presentation that described the 2007 excavations at Lava Ridge Ruin, along with the results of pedestrian inventory around Mount Dellenbaugh, was presented to NPS ATR Steve Daron by PLI Principal Investigator Dr. Karen Harry. Basic laboratory analysis for all lithic artifacts, ceramic artifacts and pollen specimens is now complete. In addition, dendrochronological studies (tree-ring dating) of architectural beams, the identification of recovered plant material, and phytolith specimens obtained from ground stone artifacts, is in progress at various laboratories across the country. Results of all of these specialized analyses should be completed shortly.

Project 4B: Shivwits Plateau Settlement Pattern Study

After consultation with NPS ATR, Steve Daron, the deadline for a preliminary draft report that details the results of the predictive model was extended from February 28 to April 25. This extension allows for finer detail in the Soils Geodatabase, which had previously not been available. Graduate student Glendee Ane Osborne, who is conducting this study for her M.A. thesis, has completed portions of the preliminary report and submitted them to PLI Principal Investigator, Dr. Karen Harry.

Project 5: SNPLMA Capital Improvement Projects (CIP)

A Class I Inventory report for four proposed CIP parcels was completed under the direction of Program Manager Haynes at the end of the last reporting period (see below, Haynes et al.). At that time, one of the four parcels, a 245-acre area in Government Wash, had already been inventoried. Since then, two other parcels have been inventoried, including a 410-acre area in Twin Springs Cove and a 320-acre area just north of Bullhead City. In all, approximately 975 acres have been inventoried for this project, well over the 700-acre minimum identified in the task agreement. Findings include 7 new sites and 25 isolated finds recorded in the Government Wash parcel, 10 isolated finds recorded in the Twin Springs Cove parcel, and 2 sites and 19 isolated finds recorded in the Bullhead City parcel. A draft report is complete for the Twin Springs Cove survey (see below, Velasquez). Draft reports for the other two CIP inventory parcels are currently being written.

Project 6: Lost City Inventory

A total of 465 acres were inventoried in February for the Lost City project (i.e., Pueblo Grande de Nevada). Five different parcels, based on a number of different objectives, were surveyed. Below is a summary of each parcel that includes the number of acres inventoried, why each parcel was investigated, and the results of field work.

Survey Area 08-1. A 35-acre parcel, located on the west side of the Muddy River flood plain, was inventoried in order to relocate a concentration of four Puebloan habitation sites, including House 102. While no habitation sites were found, a relatively dense mixed artifact scatter was documented at the base of a low ridge overlooking the flood plain.

Survey Area 08-2. A 95-acre parcel, located on the bluffs immediately north of Main Ridge, was inventoried in order to find Puebloan habitation sites. One habitation

site was documented, along with a prehistoric trail, a cluster of bedrock mortar holes, and two cobble reduction scatters.

Survey Area 08-3. A 195-acre parcel, located on the west side of the Muddy River, was inventoried in order to complete a large survey swathe along the high bluffs overlooking the flood plain. While no Puebloan habitation sites were found, two cobble reduction sites were documented.

Survey Area 08-4. A 110-acre parcel, located immediately south of Main Ridge, was inventoried in order to find Puebloan habitation sites. Three habitation sites, along with a cluster of bedrock mortar holes, and a cobble reduction site, were documented.

Survey Area 08-5. A 30-acre parcel, located on the flood plain just off the tip of Main Ridge, was inventoried to relocate House 46, a relatively large Puebloan habitation. While it is difficult to know for certain whether House 46 was relocated, the remnants of two Puebloan room blocks and a large dispersion of artifacts was found covering the flood plain in this area.

Project 7: BLM Andrus Burn Unit (PARA)

All of the deliverables identified in both Phase 1 and Phase 2 for this project are complete, as previously stated in the FY07 Year End Report.

Personnel and Hiring

This quarter saw some significant changes in personnel with the PLI archaeology crew stationed at Lake Mead. As of January 1, Allison King was hired as a temporary Letter-of-Appointment to replace former Research Assistant Gioia-Acres. Ms. King received her B.A. in anthropology from UNLV and also has completed 21 graduate semester hours in the discipline. Erin Burrows, a Letter-of-Appointment hire, had to be dismissed after she successfully completed her year-long appointment (1/2007-1/2008). Most importantly, however, Research Assistant and Field Supervisor Leah Bonstead resigned her position on January 31 to accept a full-time position with the NPS at Death Valley. Based on consultations between PLI Principal Investigator Harry, Program Manager Haynes and NPS ATR Daron, this position will not be filled immediately unless there is a substantial change in work load. Many of the duties overseen by Field Supervisor Bonstead are now being accomplished by Research Assistants Roycraft and Velasquez.

Training

PLI Research Assistant Steph Velasquez took advantage of several training opportunities this quarter. Since much of the field work she oversees occurs in remote areas on the Shivwits Plateau, she attended a two-day wilderness training workshop titled *Introduction to the Wilderness Act*. This workshop, held in Las Vegas, was taught by the nationally recognized Arthur Carhart National Wilderness Training Center. Research Assistant Velasquez is also currently enrolled in a semester-long basic Emergency Medical Training course (EMT-B) through the College of Southern Nevada. The EMT-B is the first of three courses required for emergency medical personnel. Having someone on the PLI archaeology crew with this kind of expertise makes a great deal of sense, since much of the field work takes place in remote areas in southern Nevada and northwest

Arizona. Research Assistant Velasquez recently completed an on-line Department of the Interior training module that covered basic National Environmental Policy Act (NEPA) concepts. Finally, she organized and attended an Interagency Aviation Training Course (B-3: Basic Aviation) for Lake Mead. This particular aviation training course was also attended by Program Manager Haynes and Archaeological Technician King.

In January, Program Manager Haynes and Field Supervisor Bonstead attended a two-day supervisory-leadership training course. This course was sponsored by, and held at, Lake Mead NRA. The purpose of this course was to develop different kinds of supervision and leadership skills, depending on the skill level and morale of the employee(s).

PLI Research Assistant Liz Roycraft and graduate student Glendee Ane Osborne attended a four-day long Geographic Information System training class. This was an intermediate-level course organized by the BLM and hosted at UNLV. An introductory-level course, also attended by Roycraft and Osborne, was offered by the BLM at UNLV last quarter.

All of the PLI archaeologists at Lake Mead (Velasquez, Roycraft, Burrows, King) attended a Resource Management retreat in January. This retreat primarily focused on monitoring Smoketrees in the Telephone Cove area of Lake Mohave. This particular field work supported research and preservation efforts for the Smoketree by Lake Mead's Resource Management Vegetation Branch.

Scholarly Activity

PLI Principal Investigator Dr. Karen Harry and graduate student Glendee Ane Osborne, attended the Southwest Symposium in Tempe, Arizona, in January. Both of them presented posters on research they are conducting on the Shivwits Plateau (see below, Harry et al., Osborne). Program Manager Greg Haynes, and Research Assistant Liz Roycraft, gave separate presentations to the Archaeo-Nevada Society of Las Vegas. Dr. Haynes's presentation summarized past and present archaeological investigations at Pueblo Grande de Nevada (see below, Haynes), while Ms. Roycraft discussed the prehistory of the Shivwits Plateau (see below, Roycraft). Finally, Stephanie Henrikson and Angela Peterson, two anthropology undergraduates at UNLV who participated in the 2007 Lava Ridge Field School, gave a presentation to the UNLV Anthropology Society (see below, Henrikson and Peterson). Their presentation included the results of experimental laboratory analysis that explains why there are so few hearths present at Lava Ridge Ruin.

Both Dr. Haynes and Ms. Velasquez served on PLI's Merit Committee. This committee consisted of four Institute employees and marked the first committee of its kind at PLI. Several primary tasks were outlined for the committee. The first task was to identify a protocol for measuring merit-based salary increases. Secondly, we applied this protocol to all employees who applied for a merit increase this year. Last, the committee developed a paper that outlines the protocol, so that it can be used and adapted as needed in future years.

Unpublished Archaeological Technical Reports

Haynes, Gregory M., Leah Bonstead and Elizabeth Roycraft

Class I Cultural Resources Inventory of Selected Areas for Lake Mead Capital Improvement Projects in FY08. Memorandum on file at Lake Mead National Recreation Area, Boulder City, Nevada. (9 pages)

Velasquez, Steph

Capital Improvement Project Parcel 3a – Twin Springs Cove. Lake Mead Cultural Resource Project Number 08-015. Draft report on file at Lake Mead National Recreation Area, Boulder City, Nevada. (13 pages)

Conference Papers, Research Posters and Public Presentations

Harry, Karen, Steve Daron, Leah Bonstead, and Glendee Ane Osborne

Puebloan Land Use in the Mount Dellenbaugh Region of the Arizona Strip. Research poster presented at the Southwest Symposium, Tempe, Arizona.

Haynes, Gregory M.

Pueblo Grande de Nevada: A View of the Anasazi World from Its Far Western Edge. Public presentation given to the Archaeo-Nevada Society, Las Vegas, Nevada.

Henrikson, Stephanie, and Angela Peterson

Explaining the Absence of Hearths at Lava Ridge Ruin. Public presentation given to the UNLV Anthropology Society, Las Vegas, Nevada.

Osborne, Glendee Ane

Predicting Site Location on the Shivwits Plateau, Northwest Arizona: Preliminary Results using MaxEnt Software. Research poster presented at the Southwest Symposium, Tempe, Arizona.

Roycraft, Elizabeth

The Prehistory of the Shivwits Plateau, Grand Canyon-Parashant National Monument. Public presentation given to the Archaeo-Nevada Society, Las Vegas, Nevada.


Margaret N. Rees, Project Administrator

03/31/2008

Date

Table 1. Saint Thomas Feature Monitoring and Assessment Summary

Feature No.	Feature Description	2003	2004	2005	2006	2007	2008	%Intact / Condition	Major Disturbance Types	Notes
1	Windmill platform foundation		X			X	X	<25% / Fair	1. Erosion 2. Vegetation growth 3. Structural/feature collapse	
2	Water tank foundation		X			X	X	>75% / Good	1. Vegetation 2. Erosion	
3	Outline foundation		X			X	X	>75% / Good	1. Vegetation 2. Undercutting	Preventive maintenance includes shoring up undercut foundation with dirt.
4	Rock pile scatter w/ Railroad tie		X			X	X	<25% / Poor	1. Wave dispersion or action 2. Vegetation	
5	Tar, rocks, and Railroad remnant		X			X	X	<25% / Poor	1. Vegetation	
6	House	X				X	X	>75% / Good	1. Trail construction 2. Structural/feature collapse	
7	Cistern		X			X	X	>75% / Good	1. Rust stains from 'safeing' material	
8	Outline foundation/ New Frehner House		X			X	X	25-75% / Fair	1. Vegetation	
9	Concrete outline		X			X	X	<25% / Poor	1. Vegetation	
10	Walkway and slab foundation		X			X	X	25-75% / Fair	1. Vegetation	
11	Post alignment		X			X	X	<25% / Poor	1. Vegetation 2. Animal activity	
12	Rock alignment		X			X	X	<25% / Poor	1. Vegetation	
13	Outline foundation- Ed Syphus House		X			X	X	25-75% / Fair	1. Vegetation	
14	Cistern		X			X	X	>75% / Good	1. Trail construction 2. Visitor safety threat	
15	---	---	---	---	---	---	---	---	---	Item taken off of Feature list.
16	---	---	---	---	---	---	---	---	---	Item taken off Feature list.
17	Water diversion channel (?)	X				X	X	25-75% / Fair	1. Trail construction 2. Rodent disturbance 3. Structural/feature collapse (human)	Concrete slabs broken up by visitors walking over structure. Preventive maintenance includes four posts and connecting chain to prevent visitors from walking over feature.
18	Outline foundation		X			X	X	25-75% / Fair	1. Vegetation	There is a crack in the North wall.
19	Foundation/ Canal channel		X			X	X	25-75% / Poor	1. Vegetation	

Feature No.	Feature Description	2003	2004	2005	2006	2007	2008	%Intact / Condition	Major Disturbance Types	Notes
20	Outline foundation		X			X	X	>75% / Good	1. Vegetation 2. Surface collection	
21	Canal chute		X			X	X	25-75% / Fair	1. Vegetation	
22	Outline foundation		X			X	X	25-75% / Fair	1. Vegetation 2. Surface Collection	
23	Gravel circle		X			X	X	<25% / Poor	1. Vegetation	
24	Rock alignment and pile		X			X	X	<25% / Poor	1. Vegetation	
25	Rock outline foundation		X			X	X	<25% / Poor	1. Vegetation	
26	Rock cluster		X			X	X	<25% / Poor	1. Vegetation	
27	Outline foundation		X			X	X	25-75% / Fair	1. Vegetation	
28	---	---	---	---	---	---	---	---	---	Item taken off Feature list.
29	Wooden posts/supports		X			X	X	>75% / Fair	1. Vegetation 2. Litter	Litter most likely from lake.
30	Canal chute		X			X	X	>75% / Good	1. Vegetation 2. Wood rot 3. Vegetation reduction	Vegetation reduction possibly caused by visitor activity walking in or around feature.
31	Cistern		X			X	X	>75% / Good	1. Vegetation	
32	Foundation wall		X			X	X	25-75% / Fair	1. Vegetation	
33	Machine mount		X			X	X	<25% / Poor	1. Vegetation	
34	'L' shaped water diversion		X			X	X	>75% / Good	1. Vegetation 2. Vegetation reduction	
35	Canal diversion		X			X	X	>75% / Good	1. Vegetation 2. Animal activity	
36	Canal chute		X			X	X	25-75% / Fair	1. Wave action/dispersion 2. Vegetation	
37	Inclined foundation		X			X	X	25-75% / Fair	1. Vegetation	
38	Cistern		X			X	X	>75% / Good	1. Vegetation 2. Visitor safety threat	Needs to be 'safed'.
39	Slab foundation		X			X	X	25-75% / Fair	1. Vegetation 2. Surface collection 3. Structural/feature collapse	
40	Concrete platform	X				X	X	>75% / Good	1. Undercutting	
41	Trough (?)		X			X	X	>75% / Good	1. Surface collection	Vegetation was cleared in 2004.
42	Machine mount		X			X	X	>75% / Good	1. Surface collection 2. Vegetation	
43	Canal chute		X			X	X	<25% / Poor	1. Vegetation	
44	Concrete slab		X			X	X	>75% / Good	1. Vegetation	
45	Outline foundation		X			X	X	>75% / Good	1. Vegetation	

Feature No.	Feature Description	2003	2004	2005	2006	2007	2008	%Intact / Condition	Major Disturbance Types	Notes
46	Concrete outline/alignment		X			X	X	25-75% / Poor	1. Vegetation	
47	Concrete foundation slab		X			X	X	>75% / Good	1. Vegetation	
48	Cistern	X				X	X	>75% / Good	1. Rust stains from 'safeing' material 2. 'Safeing' material resting on feature	Vegetation was cleared in 2004.
49	Cistern		X			X	X	>75% / Good	1. Vegetation	
50	Cistern		X			X	X	>75% / Good	1. Vegetation 2. Undercutting 3. Visitor safety threat	Needs to be 'safed'.
51	Concrete slab and cobble scatter		X			X	X	25-75% / Poor	1. Vegetation	
52	Cistern/ Vern's cistern		X			X	X	25-75% / Fair	1. Vegetation 2. Visitor safety threat	Needs to be 'safed'.
53	Cistern		X			X	X	>75% / Good	1. Vegetation 2. Visitor safety threat	Needs to be 'safed'.
54	Concrete platform		X			X	X	>75% / Good	1. Vegetation 2. Animal activity	
55	Outline foundation or trough		X			X	X	>75% / Good	1. Vegetation	
56	Cistern		X			X	X	>75% / Good	1. Vegetation 2. Visitor safety threat	Needs to be 'safed'.
57	Cistern		X			X	X	>75% / Good	1. Vegetation 2. Visitor safety threat	Needs to be 'safed'.
58	Concrete slab and rock alignment		X			X	X	25-75% / Good	1. Vegetation	
59	'T' shaped diversion		X			X	X	25-75% / Fair	1. Vegetation	
60	Cistern		X			X	X	25-75% / Poor	1. Vegetation 2. Structural/feature collapse	Deterioration.
61	Outline foundation		X			X	X	>75% / Fair	1. Vegetation	
62	Cistern		X			X	X	>75% / Good	1. Rust stains from 'safeing' material 2. Vegetation	
63	Cistern		X			X	X	>75%/Fair	1. Vegetation 2. Visitor safety threat	Needs to be 'safed'.
64	Cistern		X			X	X	<25% / Fair	1. Vegetation 2. Rust stains from 'safeing' material	
65	Cistern at Moses Gibson House		X			X	X	25-75% / Good	1. Vegetation	
66	Cistern		X			X	X	>75% / Good	1. Vegetation 2. Visitor safety threat	Needs to be 'safed'.

Feature No.	Feature Description	2003	2004	2005	2006	2007	2008	%Intact / Condition	Major Disturbance Types	Notes
67	Cistern		X			X	X	>75% / Good	1. Visitor safety threat	Needs to be 'safed'.
68	Cistern		X			X	X	>75% / Good	1. Vegetation	Feature has been 'safed'.
69	Cistern		X			X	X	>75% / Good	1. Vegetation	
70	Cistern		X			X	X	25-75% / Fair	1. Vegetation 2. Rodent activity	
71	Outline rock and concrete foundation		X			X	X	25-75% / Fair	1. Vegetation	
72	Rock outline foundation		X			X	X	25-75% / Fair	1. Vegetation	
73	Outline foundation		X			X	X	25-75% / Fair	1. Vegetation	
74	Outline foundation		X			X	X	>75% / Good	1. Illegal excavation 2. Surface collection 3. Footprints	
75	Foundation and collapsed walls		X			X	X	25-75% / Good	1. Vegetation 2. Rodent activity 3. Fire effects	There is a piece of burnt wood North of the feature, but origin is unknown.
76	Outline foundation		X			X	X	>75% / Good	1. Vegetation 2. Rodent activity	
77	Rock alignment		X			X	X	<25% / Poor	1. Vegetation 2. Wave action/ dispersion	
78	Outline foundation		X			X	X	25-75% / Good	1. Vegetation	
79	Rock rubble foundation		X			X	X	25-75% / Poor	1. Vegetation	
80	Rock foundation		X			X	X	<25% / Poor	1. Vegetation	
81	Rubble foundation		X			X	X	25-75% / Good	1. Vegetation	
82	Slab and rock foundation		X			X	X	25-75% / Poor	1. Wave action/dispersion 2. Vegetation	
83	Outline foundation		X			X	X	25-75% / Fair	1. Vegetation	
84	Foundation remnant		X			X	X	25-75% / Fair	1. Vegetation reduction	Vegetation removed in 2004.
85	Cistern		X			X	X	25-75% / Poor	1. Vegetation 2. Structural/feature collapse	
86	Rock scatter		X				X	<25% / Poor	1. Vegetation	
87	Rock scatter		X			X	X	<25% / Poor	1. Vegetation	
88	Outline foundation		X			X	X	25-75% / Fair	1. Vegetation 2. Structural/feature collapse	
89	Outline foundation-Moses Gibson House		X			X	X	25-75% / Fair	1. Vegetation 2. Vegetation reduction	Vegetation removed in 2004.
90	Gentry Hotel	X				X	X	25-75% / Poor	1. Footprints 2. Vegetation 3. Vegetation reduction	

Feature No.	Feature Description	2003	2004	2005	2006	2007	2008	%Intact / Condition	Major Disturbance Types	Notes
91	Outline foundation-Gentry Store		X			X	X	25-75% / Fair	1. Visitors moving artifacts	
92	Outline foundation-Post Office		X			X	X	25-75% / Fair	1. Vegetation 2. Vegetation reduction 3. Littering 4. Structural/feature collapse	Vegetation removed in 2004.
93	Outline foundation-Gentry House		X			X	X	25-75% / Good	1. Surface collection 2. Structural/feature collapse 3. Vegetation reduction	
94	Outline foundation - Society Hall		X			X	X	25-75% / Fair	1. Surface collection 2. Vegetation	
95	Post foundation- JF Perkins		X			X	X	>75% / Good	1. Vegetation	
96	New Schoolhouse	X				X	X	>75% / Good	1. Wood collection/burning 2. Footprints 3. Littering 4. Vegetation reduction	
97	Outline foundation-Lake Whitney Building		X			X	X	25-75% / Good	1. Vegetation 2. Structural/feature collapse	
98	Foundation-Vern Howell		X			X	X	25-75% / Good	1. Vegetation 2. Holes	
99	Foundation-Stresser Home		X				X	25-75% / Good	1. Vegetation	
100	Outline foundation-Foxley Manor		X			X	X	25-75% / Good	1. Vegetation	
101	Outline foundation		X			X	X	25-75% / Good	1. Vegetation	
102	Outline foundation		X			X	X	>75% / Good	1. Surface Collection 2. Vegetation	
103	Outline foundation		X			X	X	>75% / Good	1. Vegetation	
104	Rock Alignment-Foundation		X			X	X	<25% / Poor	1. Vegetation	
105	Rock rubble foundation	---	---	---	---	---	---	---	---	This is Feature 81.
106	Rubble foundation		X			X	X	<25% / Poor	1. Vegetation	
107	Outline foundation		X				X	>75% / Good	1. Vegetation	
108	Building foundation		X			X	X	>75% / Good	1. Surface Collection 2-3. Vegetation/Vegetation Reduction 4. Littering	

Feature No.	Feature Description	2003	2004	2005	2006	2007	2008	%Intact / Condition	Major Disturbance Types	Notes
109	Slab foundation		X			X	X	25-75% / Good	1. Surface Collection 2. Vegetation	
110	Outline foundation		X			X	X	25-75% / Good	1. Vegetation	
111	Slab foundation-Garage	X				X	X	>75% / Good	1. Vehicle Tracks 2. Footprints 3. Vegetation reduction 4. Vegetation	
112	Hannig Ice Cream Parlor	X				X	X	25-75% / Good	1. Pits 2. Surface Collection 3. Footprints 4. Vegetation reduction 5. Vegetation	
113	Concrete platform		X			X	X	>75% / Good	1. Vegetation	
114	Slab foundation		X			X	X	25-75% / Good	1. Vegetation	
115	----	---	---	---	----	----	----	----	-----	Feature 115 is actually Feature 57.
116	Outline foundation-Bonelli		X			X	X	25% / Fair	1. Vegetation 2. Structural/feature collapse	
117	Building foundation						X	25% / Fair	1. Vegetation	
118	Cistern		X			X	X	>75% / Good	1. Trail Construction 2. Vegetation	
119	Railroad		X			X	X	25% / Fair	1. Vegetation	
120	Cistern		X			X	X	>75% / Good	1. Vegetation reduction 2. Visitor safety threat	Needs to be 'safed'.
121	Survey Marker in Stump		X			X	X	25-75% / Good	1. Vegetation 2. Structural/feature collapse	
122	Rock pile		X			X	X	>75% / Good	1. Vegetation	
123	Concrete slab						X	25-75% / Fair	1. Vegetation	
124	Outline foundation		X			X	X	>75% / Good	1. Vegetation	
125	Gravel Road-Highway 91		X			X	X	Indeterminate/Fair	1. Vegetation	
126	Tree Lined Road		X			X	X	Indeterminate/Poor	1. Vegetation	
127	Concrete outline-alignment		X			X	X	25-75% / Poor	1. Vegetation	
128	Outline foundation		X			X	X	25-75% / Fair	1. Vegetation	
129	Concrete outline alignment		X			X	X	25-75% / Fair	1. Vegetation	
130	Wood stumps					X	X	25-75% / Fair	1. Vegetation	

Feature No.	Feature Description	2003	2004	2005	2006	2007	2008	%Intact / Condition	Major Disturbance Types	Notes
131	Rock alignment					X	X	25% / Poor	1. Trail construction 2. Vegetation	
132	Cistern					X	X	25-75% / Poor	1. Vegetation	
133	Outline foundation					X	X	25-75% / Fair	1. Vegetation	
134	Cistern					X	X	>75% / Fair	1. Vegetation	
135	Concrete slab					X	X	25-75% / Fair	1. Vegetation	
136	Rock scatter					X	X	>75% / Good	1. Vegetation	
137	Sandstone slab					X	X	25-75% / Poor	1. Vegetation	
138	Rock alignment					X	X	25% / Fair	1. Vegetation	
139	Cement sandbags and sandstone slabs					X	X	25% / Good	1. Vegetation	
140	Outline foundation					X	X	25% / Poor	1. Vegetation	
141	Outline foundation					X	X	75% / Good	1. Animal activity 2. Salt staining on lower walls 3. Vegetation	
142	Outline foundation					X	X	75% / Good	1. Animal activity 2. Sand dune formation 3. Vegetation	
143	Cistern					X	X	75% / Good	1. Vegetation	
144	Rock alignment					X	X	25% / Poor	1. Vegetation	
145	Canal chute					X	X	75% / Good	1. Vegetation	
146	Outline foundation					X	X	25%-75% / Fair	1. Vegetation	
147	Concrete block					X	X	25% / Poor	1. Wave action dispersion 2. Stream/arroyo cut 3. Animal activity	
148	Post alignment					X	X	25%-75% / Good	1. Vegetation 2. Animal activity	
149	Rock piles					X	X	25%-75% / Good	1. Vegetation	
150	Canal chute					X	X	25%-75% / Good		
151	Road					X	X	<25% / Poor	1. Vegetation 2. Animal activity	
152	Slab foundation						X	>75% / Good	1. Vegetation	Area still soggy from waters receding.
153	Cistern						X	>75% / Good	1. Vegetation 2. Visitor safety threat	Area still soggy from waters receding. Needs to be 'safed'.
154	Outline foundation						X	25-75% / Fair	1. Vegetation 2. Structure/feature collapse	
155	Canal						X	>75% / Good	1. Vegetation	
156	Foundation remnant						X	<25% / Poor	1. Vegetation 2. Structure/feature collapse 3. Trail construction	

X = Feature recorded or monitored during year.

Table 2. Saint Thomas Feature Drawing Summary

Feature No.	Description	Year Documented
1	Windmill Platform	2008
2	Water Tank Foundation	2008
3	Outline Foundation	2008
6	House with Basement	2003
7	Cistern	2008
8	New Frehner House	2008
13	Ed Syphus House	2008
14	Cistern	2008
17	Water Control Structure	2003
18	Outline Foundation	2008
30	Canal Structure	2007
34	Canal Structure	2007
39	Slab Foundation	2008
40	Bridge	2004
41	Outline Foundation- Cellar	2008
42	Machine Mount	2008
43	Outline Foundation	2008
44	Slab Foundation	2008
46	Outline Foundation	2008
48	Garage Cistern	2003
62	Cistern	2008
65	Moses Gibson Cistern	2007
74	Gentry House Outbuilding	2007
84	Moses Gibson Outbuilding	2007
89	Moses Gibson House	2007
90	Gentry Hotel	2004
91	Gentry Store	2007
92	Post Office	2007
93	Gentry House	2007
96	New School	2004
108	Blacksmith Shop	2008
109	Slab Foundation	2008
111	Garage	2003
112	Ice Cream Shop	2003
116	Bonelli Outline Foundation	2008
120	New School Cistern	2007
128	Outline Foundation	2008
129	Concrete Outline Alignment	2008
133	Outline Foundation	2008
134	Cistern	2008
135	Slab Foundation	2008
141	Outline Foundation with walls	2008
142	Outline Foundation	2008
143	Cistern	2008

Table 3. Site Condition Assessment Summary (October 1, 2007 to March 31, 2008)

NPS Unit	Site Number	General Location	Site Type	Condition	Comments
LAME	26Ck1223	Boxcar Cove Road	Prehistoric	Good	
LAME	26Ck1218	Las Vegas Wash	Prehistoric	Good	
LAME	26Ck1219	Las Vegas Wash	Prehistoric	Good	Local resource – does not meet current site definitions
LAME	26Ck1532	Las Vegas Wash	Prehistoric	*	Local resource – could not be relocated
LAME	26Ck1220	Government Wash	Prehistoric	Good	
LAME	26Ck1221	Government Wash	Prehistoric	*	Local resource – site re-recorded as multiple sites
LAME	26Ck6015	Government Wash	Prehistoric	*	Local resource – does not meet current site definitions
LAME	26Ck6020	Government Wash	Prehistoric	Good	
LAME	26Ck6032	Government Wash	Prehistoric	Good	
LAME	26Ck6604	Government Wash	Prehistoric	Good	
LAME	26Ck6605	Government Wash	Prehistoric	Good	
LAME	26Ck6017	Government Wash	Prehistoric	Good	
LAME	26Ck6529	Government Wash	Prehistoric	Fair	Off road vehicle and erosion damage present
LAME	26Ck6539	Government Wash	Prehistoric	Good	
LAME	26Ck6661	Government Wash	Prehistoric	Good	
LAME	26Ck6662	Government Wash	Prehistoric	*	Local resource – could not be relocated
LAME	26Ck6663	Government Wash	Prehistoric	Good	
LAME	26Ck6664	Government Wash	Prehistoric	Good	
LAME	26Ck6769	Government Wash	Prehistoric	Good	
LAME	26Ck6817	Government Wash	Prehistoric	*	Local resource – does not meet current site definitions
LAME	26Ck6818	Government Wash	Prehistoric	Good	
LAME	26Ck6819	Government Wash	Prehistoric	Good	
LAME	26Ck6820	Government Wash	Prehistoric	Good	
LAME	26Ck6821	Government Wash	Prehistoric	Good	
PARA	AZ A:09:012	Grand Wash	Prehistoric	Good	
PARA	AZ A:09:013	Grand Wash	Prehistoric	Good	
PARA	AZ A:09:014	Grand Wash	Prehistoric	Good	
PARA	AZ A:09:015	Grand Wash	Prehistoric	Good	
PARA	AZ A:09:016	Grand Wash	Prehistoric	Good	Some erosion present