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Archaeological Inventory, Site Assessment, and Data Management, Lake Mead National Recreation Area (LAME) and Parashant National Monument (PARA), Annual Report for 2007

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UNLV
UNIVERSITY OF NEVADA LAS VEGAS
ANNUAL REPORT FOR 2007

University of Nevada, Las Vegas
October 1, 2006 to September 30, 2007

Cooperative Agreement Number H8R07060001
Task Agreement Number J8R07060013

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

This cooperative task agreement was awarded to the Public Lands Institute (PLI) at the University of Nevada, Las Vegas (UNLV) on October 1, 2006, with the term ending on September 30, 2008. The following information constitutes an annual report for all of the major activities performed during the first year of this agreement, as stipulated. A brief summary of all work performed for each project in the agreement between October 1, 2006 and September 30, 2007 is presented. Other important tasks or activities associated with this agreement, but not identified under any specific project, also are summarized.

Executive Summary

- More than 6,700 acres were inventoried or monitored and 96 newly discovered archaeological sites were documented on LAME and PARA.
- Twelve technical reports, ten memoranda, and three conference papers were written and/or presented on task agreement projects.
- Some 142 features at the historic town site of Saint Thomas were monitored.
- More than 60 site condition assessments were conducted on LAME and PARA.
- More than 4,500 acres and 61 sites were recorded as a result of NPS and BLM fire management projects on PARA.
- The UNLV Archaeological Field School was conducted this summer at Lava Ridge Ruin.
- Both pilot and final databases were completed for the PARA settlement pattern study, including data obtained for approximately 1,200 sites.
- A total of 600 acres were inventoried for Capital Improvement Projects at LAME.
- More than 450 acres were surveyed and 19 sites were recorded for the Lost City Inventory Project.

Summary of Attachments

- Archaeological Inventory Project Status and Summary (10/01/2006-09/30/2007)
- Site Condition Assessments Conducted in Year 1
- Task Agreement Progress Report Summary Table, Year 1 (10/01/2006-09/30/2007)

Program Activities

Preserve American Project 1A: Saint Thomas

All of the six deliverables identified for Phase 1 of this project are complete. PLI Field Supervisor, Ms Leah Bonstead, provided oversight for all activities related to this project

Site and feature information obtained prior to the current task agreement was compiled into a variety of computer files/databases with hard-copy originals placed in a large three-ring binder (Deliverable 1). A copy of the original documents was also created for use during field work. A feature monitoring form was developed, in collaboration with various cultural resource management professionals, and used during the monitoring event (Deliverable 2). Field testing proved this monitoring form to be sufficient for long-term use at the site with only one modification.

Field work was conducted primarily from January 8 to January 24, 2007. Four PLI archaeologists (Leah Bonstead, Lisa Gioia-Acres, Liz Roycraft, Greg Haynes), a LAME archaeologist (Pat Baird), a Student Conservation Association intern (Andre Diaz) and an NPS volunteer (Bob Bonstead) assisted with the field work. In all, 272 person hours were invested in the field, of which 144 were completed by PLI archaeologists. A total of 141 architectural and non-architectural features were monitored and 17 new features were found and recorded (Deliverable 3). GPS spatial data were obtained for all of the features, along with approximately 1,500 tree stumps that lined roadways and property boundaries (Deliverable 4). Photographs were taken and scale drawings made for 10 features this year (Deliverable 5). Overall, a total of 18 features at Saint Thomas have now received this level of documentation.

All of the GPS spatial data collected from the site are available for GIS manipulation on the NPS network (R:\CRData\Geodatabase_Working_NAD83\26Ck6758(St_Thomas)) (Deliverable 6). These data are available for use in conjunction with other GIS environmental layers, including topography and lake level. (An updated map of Saint Thomas that includes 128 features and 1,400 tree stumps was attached to this year's second quarter report.)

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

The first two deliverables for Phase 1 of this project are complete, while the last two deliverables remain under technical review by Lake Mead NRA. PLI Research Assistant Elizabeth (Lisa) Gioia-Acres has, until recently, been primarily responsible for Web page content and collaborating with appropriate agency personnel (NPS ATR Steve Daron, Web designer Ms. Leslie Paige). However, as of August 31, Ms. Gioia-Acres resigned and Mr. Steve Daron and PLI Program Manager Dr. Greg Haynes are jointly reviewing the content of all the Web pages and consulting on the next phase of this project.

To summarize this year's work, a format for Lake Mead's cultural resource Web pages (Deliverable 1) and an historic period outline (Deliverable 2) was designed by Ms. Gioia-Acres in the fall of 2006. A "History and Culture" cover page was then developed and Web-based testing for this page took place in December. (This cover page is currently available at the

following Internet address: <http://www.nps.gov.lame/historyculture/index.htm>). Web page contents that cover the history of Boulder Basin (Deliverable 3) and Lake Mohave (Deliverable 4) remain under technical review by Lake Mead personnel, and research for the Overton Arm of the lake is on-going. A total of 17 pages of content, including texts and images, has been submitted to the NPS ATR (Steve Daron) in support of this project.

Preserve America Project 1C: Evaluation of Site 26Ck4943

A Class 1 Inventory report that assesses the current condition of site 26Ck4943 (Deliverable 1), reviews previous archaeological work (file search) and ethnographic information (literature review) and a proposed subsurface test excavation strategy, was submitted to the NPS ATR (Steve Daron) in January (Deliverable 2). (See Unpublished Archaeological Resource Reports section for: Haynes, [A Class I Overview and Testing Plan](#)). This report was authored by PLI Archaeology Program Manager Dr. Greg Haynes. The plan has since been amended a number of times with minor revisions as various NPS personnel have reviewed the document.

Consultations with Native American tribal organizations and the Nevada State Historic Preservation Office were scheduled for completion, based on the task agreement, by March 30, 2007. Because of other priorities, the Park was unable to review the report in time to meet this deadline. To date, the Class 1 Inventory and testing plan for site 26Ck4943, along with a letter initiating consultation between various tribal organizations, was mailed on August 23, 2007, and at least two tribes have responded. The report and letter requesting concurrence from the Nevada State Historic Preservation Office, was mailed on or before September 30, 2007. Thus, official documentation for tribal consultation (Deliverable 3) and the Nevada SHPO (Deliverable 4) remains incomplete. Barring a major disagreement between the Park, an affiliated tribal organization and/or the Nevada State Historic Preservation Officer, test excavations will commence this November.

It is important to note that it is the responsibility of the federal agency to initiate and oversee consultation with tribal entities and other governmental organizations, while PLI archaeologists provide support and assistance as needed. Discussions regarding the timely completion of this project have taken place regularly between PLI Program Manager, Dr. Greg Haynes and NPS ATR, Mr. Steve Daron.

Project 2: Site Condition Assessments

All of the deliverables for Phase 1 of this project have been completed. This year, the condition of 67 sites on either Lake Mead NRA or Parashant NM were assessed and more than 800 site records in the ASMIS database were systematically reviewed.

Under the direction of PLI Research Assistant Elizabeth Roycraft, a total of 67 site condition assessments were conducted on NPS lands (Table 2). Of this total, 36 assessments were undertaken within the boundaries of Lake Mead NRA (Deliverable 1), while 31 were completed at Parashant National Monument (Deliverable 2). The overwhelming majority of these sites, or 50 (74.6%), were found in *GOOD* condition. Another nine sites (13.4%) were considered to be in *FAIR* condition, because they had received some obvious and significant damage primarily as

a result of water erosion, cattle trampling, off-highway vehicle use or camping. Three (4.5%) were considered to be either in *POOR* condition (a bridge span destroyed as a result of the construction of modern US Highway 93) or *DESTROYED* (a result of mechanical blading). Four (6.0%) other sites were visited, but no longer meet modern site definitions for the states of Arizona or Nevada. Finally, one site (1.5%) could not be relocated. Condition assessment information for all of these sites has been entered into the NPS ASMIS database (Deliverable 3).

A review of more than 800 site records in ASMIS was completed by PLI Field Supervisor Leah Bonstead (Deliverable 4). Locational information was ensured for each record and any site without a spatial or locational referent, or found to be outside of boundary of LAME or PARA, was designated as a “Local Resource Type”, as per NPS stipulations. The Park’s Master Site Form Directory was updated as well.

Project 3A: Fire Management Projects – NPS Andrus Burn Unit (PARA)

The fire management program at Lake Mead NRA initially scheduled hazardous fuel/vegetation reduction treatments in the Andrus Canyon area of PARA for the spring of 2008 (Task Agreement, Attachment 1: p.10). However, the interagency fire program moved these treatments forward to the summer/fall of 2007. For the PLI-NPS archaeology program, this meant that all archaeological inventory, along with the necessary compliance documents (Class III inventory, site documents, SHPO concurrence), had to be completed before any fuel reduction activity could take place within the project area.

In order to accomplish this deliverable, field work for the Andrus Burn Unit began on April 5 and continued through May 3. PLI Research Assistant, Ms. Stephanie Velasquez, coordinated and supervised all phases of the field work, laboratory work and report authorship. During the field work, 2,770 acres were inventoried for archaeological resources and 32 sites and 34 isolated finds were recorded. Approximately 2,185 acres had been previously surveyed for this project last summer, so the number of acres that received pedestrian survey totaled 4,955. While the task agreement states that 5,500 acres will be inventoried, approximately 550 acres or 10 percent of the total project area, was located on terrain so steep (i.e., steep-walled canyonlands) that intensive pedestrian survey could not be accomplished.

Two compliance reports for the NPS Andrus fuel reduction project were authored by Ms. Velasquez. ([*Andrus Burn Unit East*](#), [*Andrus Burn Unit West*](#)). Other members of the PLI archaeological crew helped prepare the necessary site documents that accompanied these reports. Because of the abbreviated survey schedule, stand-alone Class I Inventory reports were not completed, but rather bundled into the Class III documents. Changes in task agreement deliverables have been conducted in consultation between the NPS-ATR, Mr. Steve Daron, and PLI Archaeology Program Manager, Dr. Greg Haynes. The final compliance reports are complete, along with all of the ASMIS site database entry for each of the newly recorded sites. Thus, all deliverables for both Phase 1 and Phase 2 of this project have been completed.

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

The UNLV 2007 Archaeological Field School on the Shivwits Plateau took place between June 3 and July 7, under the direction of PLI Principal Investigator, Dr. Karen Harry. A total of seven students enrolled in the course. Field school accomplishments include the partial or complete excavation of seven rooms at Lava Ridge Ruin (Site No. AZ A:14:50), a 350-acre pedestrian survey of Lava Ridge proper, and surface documentation of 14 newly discovered prehistoric sites.

Artifact analyses are currently on-going at UNLV under the direction of Dr. Harry. A short inventory report that summarizes the results of the pedestrian survey has been written and includes draft site forms for all 14 sites. The survey and associated site information is currently being entered into appropriate cultural resource databases at the cultural resource offices at Lake Mead NRA.

Project 4B: Settlement Pattern Study

Graduate Student Ms. Glendee Ane Osborne is working on this project for her MA thesis in anthropology under PLI Principal Investigator Dr. Karen Harry. The size of her study area, located on PARA, is approximately 125 by 80 km in size and includes most of the Shivwits Plateau.

In May, Ms. Osborne completed archaeological data collection (survey location/size, site type/location/age/cultural affiliation) and developed a pilot database for this project (Deliverable 1). Data collection included three trips to the Lake Mead NRA offices in Boulder City, Nevada, and eight trips to the BLM field office in Saint George, Utah. At Lake Mead, she obtained information for 280 sites, along with GIS layers for soils, vegetation and topography. At the BLM office, she obtained information for approximately 1,000 sites, along with GIS layers for water resources (springs, seeps).

This quarter, Ms Osborne reviewed all of the archaeological data for inclusion into a final database. This included removing all Euroamerican historic sites and all sites that either did not have a specific locational referent (she could not determine where the site was located) or detailed assemblage content (she could not determine the kind of site). She also ensured that all of the GIS environmental layers were compatible and could be successfully used in conjunction with each other and with the archaeological database. The final database for the settlement pattern study will be complete by the end of September (Deliverable 2). Finally, Ms. Osborne revised her thesis prospectus, incorporating comments from all of her committee members, and hopes to defend the prospectus by October 15.

Project 5: SNPLMA Capital Improvement Projects

Draft reports for two Capital Improvement Project inventories were submitted to NPS ATR Steve Daron in June. While a minimum of 500 acres was required for archaeological survey under the first year of this task agreement, a total of 600 acres was actually inventoried. The first

report, an inventory of 422 previously submerged acres at Stewart's Point, has been reviewed by Mr. Daron and a final report completed (See Unpublished Archaeological Resource Reports section for: Roycraft, [Stewart's Point Low Water Survey](#)). No archaeological sites were discovered during this inventory. The second report, an inventory of 180 acres near Boy Scout Canyon, remains under NPS review (See Unpublished Archaeological Resource Reports section for: Bonstead, [Archaeological Survey Southeast of Boulder City](#)). As a result of the latter inventory, two newly discovered sites were documented, and all associated information has been entered into the NPS ASMIS database. Thus, the PLI archaeological crew has met all of the Phase 1 deliverables identified for this project.

Project 6: Lost City Inventory

A preliminary report that presents the results of 470 acres of inventory in the vicinity of the Lost City and lower Muddy River was completed and submitted to the NPS ATR Steve Daron on June 15, 2007 (See Unpublished Archaeological Resource Reports section for: Haynes, [A Literature and Archival Review for the Lost City Survey; Results of a Class III Inventory at the Anasazi Lost City](#)). In addition, site documentation for 19 archaeological sites identified during the inventory has been completed and entered into the NPS ASMIS database. All of the work conducted for this project, including both the inventory and the authoring of the Class I and Class III reports, was conducted under the supervision of PLI Program Manager Dr. Greg Haynes. While the Park Service has yet to finalize the Class III report, the NPS ATR (Steve Daron) has requested that it serve as a draft for a final report that will incorporate the results from both Year 1 and Year 2 inventories.

Project 7: BLM Andrus Burn Unit (BLM-PARA)

In order to seamlessly coordinate interagency fire management activities, contiguous NPS and BLM lands in the Andrus Canyon area will undergo hazardous fuel reduction treatments in late summer or early fall (see above, Project 3). While only the archaeological inventory was scheduled for completion this year (Phase 1), all of the deliverables, including the compliance report and associated site forms, have to be finalized before the prescribed fire event can be conducted.

In order to meet this abbreviated work schedule, a stand-alone Class I Inventory report was not written, but rather bundled into the Class III document. Field work was conducted between May 4 and May 25. A total of 1250 acres was inventoried and 27 sites and 28 isolated finds recorded. A report that presents the results of the inventory, along with management recommendations for avoiding all known archaeological sites, was authored by Ms. Velasquez (See Unpublished Archaeological Resource Reports section for: [Andrus Fuels Reduction Project](#)) and finalized with BLM-PARA. Other members of the PLI archaeological crew helped prepare the necessary site documents that accompanied the report. Thus, both deliverables for Phase 1 and Deliverable 1 for Phase 2 have been completed. We await comments from the BLM-PARA and the Arizona State Historic Preservation Officer before we can complete this report.

Other Projects Conducted at the Request of the National Park Service and Bureau of Land Management

As a result of a large-scale flash-flood at the Willow Beach Developed Area last October, a prehistoric site with both surficial and buried archaeological components was damaged (Site No. AZ F:02:02). At the request of the NPS-ATR, Mr. Steve Daron, PLI archaeologists were asked to conduct an emergency condition assessment on the extent of flood damage to the site. This work was conducted by two PLI archaeologists (Leah Bonstead, Greg Haynes) and an NPS archaeological intern (Andres Diaz). A total of 23 erosional channels were documented across the site. These channels exposed several hearth-like features in their cut-banks, as well as some lithic and groundstone artifacts. An extended memorandum describing the results of the damage assessment was authored by Bonstead (see below: Willow Beach Memorandum).

Emergency condition assessments were also conducted this year at two rock art sites. The Jumbo Wash rock art site, located just south of the Willow Beach Developed Area, was completely re-documented. This fieldwork was undertaken because of increased visitor access to the area, a result of lowered river levels. Initially documented in 1980, a total of 13 previously identified and 13 newly discovered rock art panels were recorded. Another condition assessment took place at a large rock art site in Petroglyph Wash; NPS personnel had reported damage to one of the many petroglyph panels at this site. Fieldwork included a damage assessment of the vandalized panel. Also, 109 rock art panels were visited to ensure that no other damage had occurred and each of the panels were photographed for future reference.

Throughout the year, PLI archaeologists assisted the NPS on a wide variety of short-term cultural resource projects not specifically identified in the task agreement. A 120-acre emergency inventory was conducted at Calville Bay in advance of a new marina (the old Overton Marina was moved to Calville Bay). A 104-acre-inventory along Approved Road 110 was also completed. Assistance was given for a relatively large fire-management inventory on the Shivwits Plateau (Ambush Water Pocket). Other smaller surveys include three acres on Middle Point Island (See Unpublished Archaeological Resource Reports section for: Bonstead, [*Middle Point Island Plate Boundary*](#)) and 26 acres along an historic railroad. Subsurface test excavations were conducted at one prehistoric site (26Ck5994) and several adjacent historic sites (26Ck1043-1045). Finally, two additional fuel reduction inventories were completed for the BLM on PARA, the East-Fork and Nixon Spring projects. The Eastfork inventory covered approximately 460 acres and 12 prehistoric sites were documented as a result (See Unpublished Archaeological Resource Reports section for: Velasquez, [*Eastfork Fuels Reduction Project*](#)). The Nixon Spring inventory, located near Mount Trumbull, covered only 70 acres and no sites were discovered (See Unpublished Archaeological Resource Reports section for: Velasquez, [*Nixon Spring Fuels Reduction Project*](#)).

A large number of historic photographs taken at Lost City by Mark Raymond Harrington, and then more recently by Margaret Lyneis in the 1980s, were scanned for PLI Principal Investigator, Dr. Karen Harry. These photographs were used by the 2006 UNLV Lost City Field Class to assess the current condition of prehistoric Anasazi architectural features on Main Ridge (Site No. 26Ck2148). Along those same lines, PLI Field Supervisor Leah Bonstead spent three days at the

Western Archaeological and Conservation Center in Tucson scanning old site records and 518 blank-and-white project photographs from Lake Mead.

Ms. Andi del Gatto, hired for two months this winter, assisted both PLI and NPS cultural resources personnel on tasks associated with the curation of documents, photographs and artifacts. One of the more important accomplishments was the development of a Preventative Conservation Plan for the Park's curation facility. This protocol, developed under the direction of Cultural Resource Branch Chief, Ms. Rosie Pepito, provides a framework for the consistent care of records and objects at the Park's curation facility. Ms. del Gatto also updated Lake Mead's ANCS+ database (Automated National Catalog System for NPS museum collections), inputting recently issued accession numbers and catalog numbers and adding descriptive information for archived objects. Other tasks include preparing artifacts for long-term storage; identifying objects and records throughout LAME that need to be placed in the curation facility; and archiving restored nitrate photographs. She also prepared loan documents for objects scheduled to leave the curation facility.

PLI Research Assistant Steph Velasquez continues to compile, update and maintain the LAME GIS cultural resource databases. All survey and site spatial data, electronic or otherwise, obtained by NPS and PLI goes through rigorous post-processing after fieldwork. Ms. Velasquez ensures that these data conform to existing protocols, incorporates the new data into existing GIS databases, and makes sure that all of these files are continually backed-up. The GIS archaeological database is also periodically reviewed for errors/quality assurance. The long-term goal is to manage all GPS and GIS spatial data through one person in order to reduce data errors, enhance accuracy and allow for easier overall access to corporate spatial data.

Over the last decade, large-scale wild fires across the western United States have become a national concern. PLI Research Assistant Steph Velasquez has, on her own time and at no cost or detriment to PLI projects, supported fire suppression activities for a variety of federal agencies, including NPS, BLM and USFS. Over this past year, Ms Velasquez served as the Fire Archaeologist for the Day Fire in California (Los Padres National Forest) and assisted with the post-burn transition from fire suppression activities to the Burn Area Emergency Rehabilitation (BAER) Team. She has acted as a Fire Effects Monitor for the NPS and completed several prescribed burn monitoring reports for the BLM and NPS. This quarter, Ms. Velasquez served as a Fire Archaeologist for both the Andrus and the Ambush prescribed fire projects on PARA. She has also served as an engine crew member, as emergencies arose.

Personnel and Hiring

At the beginning of this task agreement, all research assistant positions were filled with full time employees. As of August 31, one of these research assistants, Ms. Elizabeth Gioia-Acres, resigned and we are currently advertising to fill this position. In addition, throughout the year we have been able to fill only one of the two one-year Letter-of-Appointment "B" positions outlined in the budget. Ms. Lynn Geoghegan was initially hired to fill one of these positions, but resigned December 22, 2006. Ms. Erin Burrows was then hired February 1, 2007, behind Ms. Geoghegan and she continues to work for PLI on the NPS archaeological crew.

Because PLI was never able to fill the second Letter-of-Appointment “B” position, a number of temporary employees were hired over the course of the year. Ms. Andi Del Gatto, a former UNLV-NPS employee, was hired from January 1 to February 28. During the summer, three temporary seasonal technicians were hired to assist with fuel reduction and vegetation treatment projects on PARA. These hires included Ms. Glendee Ane Osborne (June 1 to August 17) and Mr. Andreas Charest (May 21 to August 17), both current students in the anthropology graduate program at UNLV, and Mr. Raymond Pettit (June 1 to August 24), a recent graduate from Hunter College in New York.

The PLI archaeological crew continues to host a variety of NPS volunteers. Mr. Andres Diaz, an intern with the federal Student Conservation Association (SCA), conducted field and laboratory work with PLI and NPS archaeologists from October 1, 2006 to June 1, 2007. Mr. Diaz’s support—free of charge to PLI—was an invaluable asset to our program over the course of his eight month internship. Two other SCA interns have recently joined the NPS cultural resource team and will be assisting PLI archaeologists on a variety of upcoming projects. Other short-term NPS volunteers included Mr. Bob Bonstead who help monitor the historic townsite of Saint Thomas, among other activities, and Mrs. Marcia Maier who worked in the laboratory organizing several hundred historic black-and-white photographs and creating a searchable database for their use.

Training

As a result of long-term, on-going lake recession at Lake Mead NRA, a variety of cultural resources are becoming easier to access by the general public. This includes not only archaeological sites on land (e.g., Lost City, Jumbo Wash rock art), but just as importantly submerged resources that are now accessible to recreational scuba divers (e.g., submerged military aircraft, the Hoover Dam Aggregation Plant). In order to prepare law enforcement officers for potential violations of the Archaeological Resources Protection Act (ARPA) in lacustrine settings, a submerged ARPA law enforcement training course was sponsored by NPS at Lake Mead. Because the prosecutions of ARPA cases integrally involve both law enforcement personnel and archaeologists, NPS cultural resources personnel and PLI archaeologists (Leah Bonstead, Steph Velasquez, Liz Roycraft, Greg Haynes) attended this unique, specialized four-day training session. This was only the second course of its kind ever conducted in the U.S.

Ms. Leah Bonstead took a two-day course on ASMIS, the NPS-wide site database. This course covered a number of topics, including what kinds of information are needed for each site record, how to conduct quality assurance tasks in the database, and how to produce reports based on compiled data. In the future, a list of archaeological sites that require condition assessments will be generated annually through ASMIS.

Ms. Steph Velasquez continues to maintain her fire/fuel management resource advisor credentials by completing a number of courses sponsored by interagency fire programs: the Annual Fireline Refresher and Arduous Duty Pack Test (Red Card), Fireline Training (S-131) and Advanced Fireline Training (S-133). Ms. Velasquez also took two other fire-related training events including a week-long GIS specialist course (S-341) and a basic aviation certification (B-

3) refresher course. As a whole, these courses allow Ms. Velasquez – and, therefore, PLI – to participate in a much more sophisticated manner with fire management programs during the design, implementation and post-burn phases of fuel reduction projects (e.g., Project 3 NPS-PARA Andrus Canyon Burn Units, Project 7 BLM-PARA Andrus Canyon Burn Units).

A variety of different training events have also been completed by PLI archaeologists. The entire crew attended a week-long NPS resource management retreat on the Shivwits Plateau in August. Along with general discussions about resource management activities and future directions at Lake Mead, short courses on bird identification, bat identification, astronomy, archaeology, and Leave No Trace etiquette, among others, were covered. In addition, all PLI employees were required to take the Department of Interior's (DOI) on-line training courses, "Information Systems and Security Awareness Course" and "Discrimination in the Work Place and Whistle-Blower Protection". This fall, Ms. Bonstead and Ms. Roycraft attended a two-day rock art documentation course in Las Vegas. In December, a number of PLI research assistants attended a Bureau of Reclamation sponsored ceramic artifact workshop. Ms. Roycraft, Ms. Burrows and Dr. Haynes attended a CPR/AED and First Aid certification course. In September, Ms. Roycraft and Ms. Burrows attended a 10-hour televised DOI beginner's course on Archaeological Resources Protection Act, while Ms. Velasquez attended a 4-hour televised DOI course entitled "Implementing Adaptive Management."

Scholarly Activity

In October, PLI archaeologists attended the Great Basin Anthropological Conference, held in Las Vegas, Nevada. PLI Principal Investigator, Dr. Karen Harry, along with Drs. Jennifer Thompson and Debra Martin from UNLV, presented a paper on the demographic composition and health of Anasazi populations at Lost City. Dr. Greg Haynes also presented two papers, both of which were related to previous work that he had conducted in the Great Basin.

In April, Dr. Haynes and Ms. Bonstead presented papers at the Annual Meetings of the Society for American Archaeology, held in Austin, Texas (April 25-29, 2007). Both of these papers were based on the results of archaeological work conducted under this task agreement. Dr. Haynes presented a paper that summarized current results from on-going work at the Lost City (Project 6). This paper was also presented at the Annual Meetings of the Nevada Archaeological Association in Ely, Nevada (April 21, 2007). Ms. Bonstead presented a paper that discussed how certain environmental variables on the Shivwits Plateau are strongly associated with the location of Virgin Anasazi habitation sites (Project 3, Project 5). Ms. Glendee Ane Osborne presented a poster that highlighted her settlement pattern project on PARA at the UNLV Graduate and Professional Student Association Research Forum (Project 4B).

Drs. Karen Harry and Greg Haynes led a number of field trips out to Lost City. The first trip was to show how Lake Mead has affected archaeological sites across this large prehistoric complex with a member of the NPS Submerged Cultural Resources Team. The second trip was to showcase this year's fieldwork to various Park employees, including NPS-ATR Steve Daron, as well as Lost City Archaeologist, Eva Jensen. In addition, Drs. Karen Harry and Greg Haynes gave a presentation to Bureau of Reclamation archaeologists that highlighted the results ongoing PLI research at Lost City.

Ms. Leah Bonstead gave two public presentations this year. The first presentation was at the Submerged Archaeological Resources Protection Act law enforcement training course. Here, she discussed the kinds of archaeological resources present on the NRA, including both submerged and terrestrial resources. The second presentation took place at the Arizona Northwestern Regional Site Stewards workshop in St. George, Utah, and was conducted jointly with Park Archaeologist Steve Daron. The latter presentation focused on archaeological resources present on the Arizona Strip (Northwest Arizona) and the work currently being conducted by PLI and NPS on Grand Canyon-Parashant National Monument.

Throughout the year, Ms. Lisa Gioia-Acres made progress towards a masters degree in history at UNLV. She completed a total of five courses, including “Colloquium in American West History” (History 726), “Historiography of the Nevada West, 1845-1895” (History 740), “Oral History (History 754), “Advanced Studies Internship in History” (History 760) and “Independent Reading in American History, 1945 to present” (History 795). Lisa also attended the National Council on Public History 2007 Conference in April. The conference theme was “Many Histories, Many Publics – Common Ground?” Also, Ms. Elizabeth Roycraft completed a graduate course at UNLV entitled “Prehistoric Hunter-Gatherers” (Anthropology 680) during the Fall 2006 Semester.

Dr. Greg Haynes completed two article-length manuscripts this year that focused on lithic or chipped stone artifact analyses in the Desert West. One paper analyzed differences in raw material type and projectile point morphology at a Paleoindian complex in Southern Nevada. This paper will be published next year in *Current Research in the Pleistocene*. The other paper reviews current directions in chipped stone artifact analyses in Great Basin and Mojave Desert archaeology. This co-authored manuscript is an expanded version of a paper presented at an invited symposium (*Past, Present and Futures Issues in Great Basin Archaeology: Papers in Honor of Don D. Fowler*) at the Great Basin Anthropological Conference last October and is currently going through the peer-review process. Finally, Dr. Haynes is writing an article-length manuscript that compares historic agricultural practices in settings analogous to the lower Muddy River in order to make inferences about agriculture, technology and labor for the prehistoric Anasazi community at Lost City. This manuscript is entitled “Cross-Cultural Implications for Ancestral Pueblo Agriculture along the lower Muddy River in the Mojave Desert.”

Unpublished Archaeological Resource Reports

Bonstead, Leah.

Archaeological Survey Southeast of Boulder City, Boy Scout Canyon Area, Lake Mead National Recreation Area (LAME). Western Archaeological and Conservation Center Project Number LAME 2005 L; Lake Mead Cultural Resources Project Numbers 05-007, 05-032, 07-027. Draft report on file at Lake Mead National Recreation Area, Boulder City, Nevada. (23 pages, 3 site forms) [back](#)

Middle Point Island Plate Boundary Observatory Survey, Virgin Basin, Lake Mead National Recreation Area, Clark County, Nevada. Western Archaeological and Conservation Center Project No. LAME 2007 J; Lake Mead Cultural Resource Project

Number 07-051. Draft report on file at Lake Mead National Recreation Area, Boulder City, Nevada. (5 pages, 0 site forms) [back](#)

Memorandum: Willow Beach Site (AZ F:02:02 (ASM)) Flood Assessment, Willow Beach Developed Area, Mohave County, Arizona. Western Archaeological and Conservation Center Project No. LAME 2006 G (LAME CRP No. 07-010). Memorandum on file at Lake Mead National Recreation Area, Boulder City, Nevada. (23 pages, 0 site forms)

Memorandum: Saint Thomas Monitoring (26Ck6758), Overton Area, Lake Mead National Recreation Area, Clark County, Nevada. WACC Project Number 2007 C; LAME Cultural Resources Project Number 07-007. Memorandum on file at Lake Mead National Recreation Area, Boulder City, Nevada. (9 pages, 0 site forms)

Memorandum: Archaeological Resource Protection Act Incident at Petroglyph Wash, Temple Bar Area, Lake Mead National Recreation Area, Mohave County, Arizona. LAME Cultural Resources Project Number 07-026. Memorandum on file at Lake Mead National Recreation Area, Boulder City, Nevada. (9 pages, 0 site forms)

Haynes, Gregory M.

A Literature and Archival Review (Class I Inventory) for the Lost City Survey, Clark County, Nevada. Lake Mead CRP Project No. 07-021. Report on file at Lake Mead National Recreation Area, Boulder City, Nevada. (22 pages, 0 site forms) [back](#)

A Class I Overview and Testing Plan for the Catacombs Curve Site (Site No. 26Ck4943). Lake Mead Cultural Resources Project Number 07-006; WACC Project Number LAME 2006 F. Draft report on file at Lake Mead National Recreation Area, Boulder City, Nevada. (21 pages, 0 site forms) [back](#)

Results of a Class III Inventory (Year 1) at the Anasazi Lost City Community along the Lower Muddy River in Southeastern Nevada. WACC Project Number 2006 E; Lake Mead Cultural Resources Project Number 06-043. Draft report on file at Lake Mead National Recreation Area, Boulder City, Nevada. (41 pages, 19 site forms)

Memorandum: LAME CRP #07-006 Christmas Tree Bend Site (26Ck4943) Condition Assessment and Preliminary Testing Plan, and LAME CRP #07-013 Grapevine Cave Condition Assessment, Newberry Mountains, Lake Mead National Recreation Area (LAME), Clark County, Nevada. WACC Project No. LAME 2006 F, Lake Mead Cultural Resources Project Number 07-006, 07-013). Memorandum on file at Lake Mead National Recreation Area, Boulder City, Nevada. (5 pages, 0 site forms)

Haynes, Gregory M. and Andres Diaz

Memorandum: Class I Cultural Resources Inventory of Selected Areas for Lake Mead Capital Improvement Projects in FY2007. Lake Mead Cultural Resources Project Number 07-021. Memorandum on file at Lake Mead National Recreation Area, Boulder City, Nevada. (13 pages, 0 site forms)

Roycraft, Elizabeth

Stewart's Point Low Water Survey, Lake Mead Capital Improvements Project. Archaeological Clearance Survey Form. Lake Mead Cultural Resources Project No. 07-015; WACC Project Number LAME 2007 B. Report on file at Lake Mead National Recreation Area, Boulder City, Nevada. (10 pages, 0 site forms) [back](#)

Memorandum: Cottonwood Rock Art Documentation. Lake Mead Cultural Resources Project No. 06-033. Memorandum on file at Lake Mead National Recreation Area, Boulder City, Nevada. (16 pages, 5 site forms)

Memorandum: Harry Reid Center Records Search. Lake Mead Cultural Resources Project No. 06-046. Memorandum on file at Lake Mead National Recreation Area, Boulder City, Nevada. (2 pages, 0 site forms)

Memorandum: Condition Assessment for the Six Companies, Inc. Railroad (26Ck4046) – Location of Proposed Ranger Led Hike, Boulder Beach, Clark County, Nevada. Memorandum on file at Lake Mead National Recreation Area, Boulder City, Nevada. (3 pages, 0 site forms)

Velasquez, Stephanie

Andrus Fuels Reduction Project, Grand Canyon-Parashant National Monument, Mohave County, Arizona. Bureau of Land Management Project Number AZ BLM-130-2007-076; Lake Mead Cultural Resource Project Number 07-047. Final draft report on file at Lake Mead National Recreation Area, Boulder City, Nevada. (19 pages, 27 site forms) [back](#)

Eastfork Fuels Reduction Project, Grand Canyon - Parashant National Monument, Mohave County, Arizona. Bureau of Land Management Project Number AZ BLM-130-2007-058; Lake Mead Cultural Resource Project Number 07-056. Draft report on file at Lake Mead National Recreation Area, Boulder City, Nevada. (14 pages, 12 site forms) [back](#)

Nixon Spring Fuels Reduction Project, Grand Canyon - Parashant National Monument, Mohave County, Arizona. Bureau of Land Management Project Number AZ BLM-130-2007-059; Lake Mead Cultural Resource Project Number 07-057. Draft report on file at Lake Mead National Recreation Area, Boulder City, Nevada. (8 pages, 0 site forms) [back](#)

Shivwits Plateau Fire Project: Andrus Burn Unit West. WACC Project Number 2005 C; Lake Mead Cultural Resource Project Number 05-047. Final report on file at Lake Mead National Recreation Area, Boulder City, Nevada. (37 pages, 59 site forms) [back](#)

Shivwits Prescribed Fire Project: Andrus Burn Unit East, Grand Canyon-Parashant National Monument, Mohave County, Arizona. WACC Project Number PARA 2007 A; Lake Mead Cultural Resource Project Number 07-040. Final report on file at Lake Mead National Recreation Area, Boulder City, Nevada. (21 pages, 22 site forms) [back](#)

Twin Point Fuels Experimentation Plots: Prescribed Fire Implementation Phase, Grand Canyon-Parashant National Monument, Mohave County, Arizona. WACC Project Number PARA 2007 C; Lake Mead Cultural Resource Project Number 07-053. Draft report on file with Lake Mead National Recreation Area, Boulder City, Nevada. (10 pages, no new site forms)

Memorandum: Ambush Burn Unit Prescribed Fire Monitoring, Grand Canyon-Parashant National Monument, Mohave County, Arizona. Lake Mead Cultural Resource Project Number 07-053a. Memorandum on file at Lake Mead National Recreation Area, Boulder City, Nevada. (2 pages, 0 site forms)

Memorandum: Andrus Burn Unit Prescribed Fire Monitoring, Grand Canyon-Parashant National Monument, Mohave County, Arizona. Lake Mead Cultural Resource Project Number 07-053b. Memorandum on file at Lake Mead National Recreation Area, Boulder City, Nevada. (2 pages, 0 site forms)

Professional Conference Papers and Posters

Bonstead, Leah and Steph Velasquez

A Study of Habitation Sites on the Southern Shivwits Plateau, Mohave County, Arizona. Paper presented at the 72nd Annual Meetings of the Society for American Archaeology (April 25-29), Austin, Texas.

Haynes, Gregory M.

Recent Forest Service Investigations on Peavine Mountain (Or What's in Reno's Back Yard). Paper presented at the 30th Meetings of the Great Basin Anthropological Conference (October 19-21, 2006), Las Vegas, Nevada.

Asking Why in Great Basin Lithic Studies. Paper presented at the Invited Symposium: *Past, Present and Future Issues in Great Basin Archaeology – Papers in Honor of Don D. Fowler*, the 30th Great Basin Anthropological Conference, Las Vegas, Nevada (with Daron G. Duke).

The Lower Muddy River “Lost City” Community: A View of the Anasazi World from Its Far Western Edge. Paper presented at the 72nd Annual Meetings of the Society for American Archaeology (April 25-29), Austin Texas. This paper was also presented at the 36th Annual Meetings of the Nevada Archaeological Association (April 20-22), Ely, Nevada.

Osborne, Glendee Ane

Modeling Prehistoric Occupations on the Shivwits Plateau, Grand Canyon- Parashant National Monument. Poster presented at the Graduate and Professional Student Association Research Forum, University of Nevada Las Vegas (March 31, 2007).

Submitted Articles

Haynes, Gregory M.

Variability in Morphology and Raw Material Choices in Paleoamerican Projectile Points from Yucca Mountain. Accepted for publication in *Current Research in the Pleistocene*, Volume 24.

Asking Why in Great Basin Lithic Studies. Co-authored with Daron G. Duke. Under review for the upcoming edited volume: *Past, Present and Future Issues in Great Basin Archaeology: Papers in Honor of Don D. Fowler*. To be published by University of Nevada Press, Reno.

Table 1. Archaeological Inventory Project Status and Summary (10/01/2006 – 09/30/2007)

Project Name (Number)	Inventoried Acres (Terrestrial/Submerged)	Number of Newly Recorded Sites	Number of NRHP Eligible/Ineligible Sites	Number of Unevaluated Sites	Report Status
Project 1A. Saint Thomas	405 (0 / 405)	*	*	*	No Report Required
Project 2. Condition Assessments	220 (220 / 0)	*	*	*	No Report Required
Project 3A. NPS-PARA Andrus Burn Unit West	Previously surveyed in 2006	*	*	*	Final Report Complete
Project 3A. NPS-PARA Andrus Burn Unit East	2770 (2770 / 0)	22	0 / 0	22	Final Report Complete
Project 4. Shivwits Field School	350 (350 / 0)	14	0 / 0	14	Draft Survey Report Complete
Project 5. Boy Scout Canyon	180 (180 / 0)	2	0 / 0	2	Draft Report under NPS Review
Project 5. Stewart's Point	420 (0 / 420)	0	0 / 0	0	Final Report Complete
Project 6. Lost City Inventory	470 (340 / 130)	19	6 ¹ / 0	13	Phase 1 Class I and III Reports Accepted
Project 7. BLM-PARA Andrus Burn Units	1250 (1250 / 0)	27	0 / 0	27	Final Report Complete
BLM-PARA Nixon Spring	70 (70 / 0)	0	0 / 0	0	Draft Report under BLM Review
NPS-PARA East-Fork	460 (460 / 0)	12	0 / 0	12	Draft Report under BLM Review
NPS-LAME Middle Point Island	3 (0 / 3)	0	0 / 0	0	In Progress
Other Inventories	116 (104 / 12)	0	0 / 0	0	No Report Required
TOTALS	6714 5744 / 970	96	6 / 0	90	

¹ Six sites recorded as a result of the Phase 1 Lost City Inventory are eligible to the National Register of Historic Places by virtue of being located within the Pueblo Grande de Nevada National Register District (Site No. 26Ck2148).

NOTE: A combined total of 5670 acres were inventoried and 81 sites newly recorded during the 2006 and 2007 field seasons for Project 3A (NPS-PARA Andrus Burn Units).

Table 2. Conditions Assessments Conducted in Year 1

NPS Unit	Site Number	General Location	Site Type	Overall Condition	Comments
LAME	26Ck2364	Boulder Beach	Prehistoric	Good	
LAME	26Ck3441	Boulder Beach	Prehistoric	Good	Photographed all known petroglyphs
LAME	26Ck4046b	Boulder Beach	Historic	Fair	Site to be used for public interpretive hikes
LAME	26Ck6665	Boulder Beach	Prehistoric	Good	
LAME	NV DD:13:1	Boulder Beach	Prehistoric	Good	
LAME	NV DD:13:2	Boulder Beach	Prehistoric	Good	
LAME	NV DD:13:3	Boulder Beach	Prehistoric	*	Does not meet current site definitions
LAME	26Ck3723	Calville Bay	Prehistoric	Good	
LAME	26Ck3724	Calville Bay	Prehistoric	Good	
LAME	26Ck3725	Calville Bay	Prehistoric	Good	
LAME	26Ck3726	Calville Bay	Prehistoric	Good	
LAME	26Ck3727	Calville Bay	Prehistoric	Good	
LAME	26Ck3728	Calville Bay	Prehistoric	Good	
LAME	26Ck3729	Calville Bay	Prehistoric	Fair	Recreation impacts, including displaced artifacts
LAME	26Ck3730	Calville Bay	Prehistoric	Fair	Erosion impacts
LAME	26Ck3731	Calville Bay	Prehistoric	Good	
LAME	26Ck3732	Calville Bay	Prehistoric	Good	
LAME	26Ck5220	Calville Bay	Prehistoric	Destroyed	Not located, appears to have been bladed
LAME	26Ck5972	Echo Bay	Prehistoric	Good	
LAME	26Ck5973	Echo Bay	Prehistoric	Good	
LAME	26Ck5974	Echo Bay	Prehistoric	Good	
LAME	26Ck5975	Echo Bay	Prehistoric	Good	
LAME	26Ck5976	Echo Bay	Prehistoric	Good	
LAME	26Ck5977	Echo Bay	Prehistoric	Fair	Erosion impacts; collector pile noted
LAME	26Ck5978	Echo Bay	Prehistoric	Good	
LAME	26Ck5979	Echo Bay	Prehistoric	Good	
LAME	AZ F:2:106	Highway 93	Prehistoric	Good	Located on steep slope, high erosion potential
LAME	AZ F:2:107	Highway 93	Prehistoric	Destroyed	Not located, appears to have been bladed
LAME	AZ F:2:108	Highway 93	Multicom.	Good	Prehistoric locus is a natural knob of welded tuff

Table 2. Conditions Assessments Conducted in Year 1 (continued)

NPS Unit	Site Number	General Location	Site Type	Overall Condition	Comments
LAME	AZ F:2:109	Highway 93	Historic	Good	Old White Rock Bridge in excellent condition
LAME	AZ F:2:110	Highway 93	Historic	Poor	Bridge span destroyed when modern US-93 built
LAME	AZ F:2:70	Willow Beach	Prehistoric	Fair	Recreation impacts
LAME	AZ F:2:71	Willow Beach	Prehistoric	Good	More petroglyphs found and recorded
LAME	AZ F:2:72	Willow Beach	Prehistoric	*	Does not meet current site definitions
LAME	AZ F:2:73	Willow Beach	Prehistoric	*	Does not meet current site definitions
LAME	AZ F:2:74	Willow Beach	Prehistoric	*	Does not meet current site definitions
PARA	AZ A:11:3	Shivwits Plateau	Prehistoric	Fair	Water erosion impacts
PARA	AZ A:11:39	Shivwits Plateau	Prehistoric	Fair	Water erosion impacts
PARA	AZ A:15:3	Andrus	Prehistoric	Good	
PARA	AZ A:15:4	Andrus	Prehistoric	Good	
PARA	AZ A:15:5	Ambush Water Pocket	Prehistoric	Good	
PARA	AZ A:15:6	Ambush Water Pocket	Prehistoric	Good	
PARA	AZ A:15:8	Ambush Water Pocket	Prehistoric	Good	
PARA	AZ A:15:9	Ambush Water Pocket	Prehistoric	Good	
PARA	AZ A:15:10	Ambush Water Pocket	Prehistoric	Good	
PARA	AZ A:15:30	Ambush Water Pocket	Historic	Good	
PARA	AZ A:15:52	Ambush Water Pocket	Prehistoric	Good	
PARA	AZ A:15:53	Ambush Water Pocket	Prehistoric	Good	
PARA	AZ A:15:17	Green Spring	Prehistoric	Good	
PARA	AZ A:15:31	Green Spring	Historic	Good	
PARA	AZ A:15:34	Green Spring	Prehistoric	Good	
PARA	AZ A:15:35	Green Spring	Prehistoric	Good	
PARA	AZ A:15:36	Green Spring	Prehistoric	Good	
PARA	AZ A:15:37	Green Spring	Prehistoric	Good	
PARA	AZ A:15:38	Green Spring	Prehistoric	Good	
PARA	AZ A:15:40	Green Spring	Prehistoric	Good	

Table 2. Conditions Assessments Conducted in Year 1 (continued)

NPS Unit	Site Number	General Location	Site Type	Overall Condition	Comments
PARA	AZ A:15:41	Green Spring	Prehistoric	Good	
PARA	AZ A:15:42	Green Spring	Prehistoric	Good	
PARA	AZ A:15:43	Green Spring	Prehistoric	Good	
PARA	AZ A:15:46	Green Spring	Prehistoric	Good	
PARA	AZ A:15:47	Green Spring	Prehistoric	Good	
PARA	AZ A:15:48	Green Spring	Prehistoric	Fair	ORV tracks, cattle paths, camping effects
PARA	AZ A:15:51	Green Spring	Prehistoric	Good	
PARA	AZ A:15:61	Green Spring	Prehistoric	Good	
PARA	AZ A:15:62	Green Spring	Prehistoric	Fair	Fire pits present; recorded artifacts missing
PARA	AZ A:15:63	Green Spring	Prehistoric	Good	
PARA	CMM-1	Andrus Point	Historic	*	Could not relocate

Table 3. Task Agreement Progress Report, Year 1 (10/01/2006 - 09/30/2007)

	<u>Scheduled Deadline</u>	<u>Date Completed</u>	<u>Comments</u>
<i>Project 1A (Saint Thomas)</i>			
1. Compile/organize site data	11/30/2006	11/30/2006	complete
2. Design feature assessment form	11/30/2006	11/30/2006	complete
3. Monitor features using form	02/02/2007	01/24/2007	complete (141 features monitored)
4. GPS tree stumps, add to map	03/01/2007	01/24/2007	complete (GPS data on ca. 1,500 stumps)
5. Document 10 features	03/01/2007	01/24/2007	complete
6. GIS-based site map	05/18/2007	04/30/2007	complete
<i>Project 1B (LAME Website Review & Update)</i>			
1. Web page format	10/27/2006	10/27/2006	complete, "Culture & History" page posted
2. Outline for historic periods	10/27/2006	10/27/2006	complete
3. Boulder Basin history web page	12/15/2006	12/15/2006	undergoing NPS technical review
4. Lake Mohave history web page	03/15/2007	03/15/2007	undergoing NPS technical review
<i>Project 1C (Site 26Ck4943)</i>			
1. Site condition assessment	11/17/2006	10/09/2006	complete
2. Class I inventory report	01/15/2007	01/15/2007	revised final report completed 06/25/2007
3a. Tribal Consultation	03/30/2007	08/23/2007	NPS consultation letter sent to tribes
3b. SHPO Consultation	03/30/2007	09/30/2007	Report sent to Nevada SHPO, 9/30/2007
4. Fieldwork	04/27/2007		Scheduled for completion by Dec. 21, 2007
5. Draft report	09/30/2007		scheduled for completion by July 31, 2008
<i>Project 2 (Condition Assessments)</i>			
1. 36 condition assessments, LAME	09/30/2007	09/01/2007	36 condition assessments complete
2. 30 condition assessments, PARA	09/31/2007	09/01/2007	31 assessments complete
3. 60 assessments in ASMIS	09/30/2007	09/15/2007	65 sites inputted into ASMIS
4. 800 site records, ASMIS review	09/30/2007	12/30/2006	800 site records reviewed in ASMIS

Table 3. Task Agreement Progress Report, Year 1 (Continued)

	<u>Scheduled Deadline</u>	<u>Date Completed</u>	<u>Comments</u>
<i>Project 3A (NPS-PARA, Andrus Burn Units Project)</i>			
Phase 1 (10/01/2006-09/30/2007)			
1. Class I Inventory Report	04/30/2007	*	bundled into class III report complete (5,760 acs, 99 sites)
2. Fieldwork	09/15/2007	05/03/2007	
Phase 2 (10/01/2006-09/30/2007)			
1. Prepare site forms/draft report	01/31/2008	05/21/2007	draft report/site forms complete
2. Final report	03/29/2008		
<i>Project 4A (Shivwits Field School)</i>			
1. Fieldwork	07/27/2007	07/06/2007	field school complete; 350 acres inventoried, 14 sites recorded
<i>Project 4B (Settlement Pattern Study)</i>			
1A. Compilation of GIS database	05/31/2007	05/31/2007	ca. 1,280 site records obtained complete
1B. Pilot database	05/31/2007	05/31/2007	
<i>Project 5 (Capital Improvement Projects)</i>			
1. Class I inventory report	12/01/2006	12/01/2006	complete
2. Class III inventory fieldwork	03/30/2007	02/21/2007	600 acres surveyed, 2 sites recorded
3. Site forms, draft report, ASMIS	06/01/2007	06/01/2007	draft reports/site forms complete
4. Final report	09/15/2007	06/15/2007	1 report finalized
<i>Project 6 (Lost City Survey)</i>			
1. Class I Inventory Report	12/15/2006	12/22/2006	ATR approved late deliverable date 470 acres surveyed, 19 sites recorded complete (draft report, 19 site forms)
2. Class III inventory fieldwork	04/15/2007	01/26/2007	
3. Draft report, site forms	06/15/2007	06/15/2007	ATR approved draft; findings to be bundled into a Year 2 final report
4. Final report	09/15/2007	08/06/2007	

Table 3. Task Agreement Progress Report, Year 1 (Continued)

Project 7 (BLM-PARA, Andrus Burn Unit Project)

Phase 1 (09/30/2006 – 09/30/2007)

1. Class I Inventory Report	04/30/2007	*	bundled into class III report complete (1250 acres, 27 sites recorded)
2. Class III Inventory fieldwork	09/15/2007	05/08/2007	

Phase 2 (10/01/2007 – 09/30/2008)

1. Draft final report/site forms	01/31/2008	06/30/2007	draft report/site forms complete
2. Final report	03/29/2008		