# Idaho National Laboratory Cultural Resource Monitoring Report for FY 2008

INL Cultural Resource Management Office
January 2009



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Idaho National Laboratory
Environmental Stewardship and Water Management
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#### **ABSTRACT**

This report describes the cultural resource monitoring activities of the Idaho National Laboratory's (INL) Cultural Resource Management (CRM) Office during fiscal year 2008 (FY 2008). Throughout the year, 45 cultural resource localities were revisited including: two locations of heightened Shoshone-Bannock tribal sensitivity, four caves, one butte, twenty-eight prehistoric archaeological sites, three historic homesteads, two historic stage stations, one historic canal construction camp, three historic trails, and Experimental Breeder Reactor-I, which is a designated National Historic Landmark. Several INL project areas were also monitored in FY 2008 to assess project compliance with cultural resource recommendations, confirm the locations of previously recorded cultural resources in relation to project activities, assess the damage caused by fire-fighting efforts, and to watch for cultural materials during ground disturbing activities. Although impacts were documented at a few locations, no significant adverse effects that would threaten the National Register eligibility of any resource were observed. Monitoring also demonstrated that INL projects generally remain in compliance with recommendations to protect cultural resources.

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#### **ACRONYMS**

ATV all terrain vehicle

BEA Battelle Energy Alliance

BM Bingham (county)
BT Butte (county)

BLM Bureau of Land Management

CITRC Critical Infrastructure Test Range Complex

CRM cultural resource management

CWI CH2M Hill-Washington Group Idaho, LLC

DOE-ID Department of Energy, Idaho Operations Office

EBR-I Experimental Breeder Reactor-I

FY fiscal year

GPS global positioning system
HeTO Heritage Tribal Office
ICP Idaho Cleanup Project

INL Idaho National Laboratory

JF Jefferson (county)

LWP Laboratory Wide Procedure

MCP Management Control Procedure

NEPA National Environmental Policy Act NRHP National Register of Historic Places

PBF Power Burst Facility

SHPO State Historic Preservation Office

TAN Test Area North U.S. United States

UXO unexploded ordnance

WERF Waste Experimental Reduction Facility



## Idaho National Laboratory Cultural Resource Monitoring Report for FY 2008

#### 1. INTRODUCTION

The Idaho National Laboratory (INL) is an 890 square mile federal reserve covering portions of five counties on the northeastern edge of the Snake River Plain in southeastern Idaho (Irving 1993, DOE-ID 1996). Lands included within the boundaries of the INL are under the jurisdiction of the U.S. Department of Energy, Idaho Operations Office (DOE-ID) and have been set aside since the 1940s to support many kinds of scientific and engineering research. Currently, four main contractors perform work for DOE-ID at INL. Battelle Energy Alliance (BEA) is the primary Management and Operations contractor, where the INL Cultural Resource Management (CRM) Office is based. CH2MHill/Washington Group (CWI) takes the lead on many cleanup operations related to the Idaho Cleanup Project (ICP), the S. M. Stoller Corp. conducts ecological research, and Bechtel-Babcock & Wilcox-XT, Idaho leads many activities for the Advanced Mixed Waste Treatment project located within the Radioactive Waste Management Complex. INL's Naval Reactor Facility is under the jurisdiction of the U.S. DOE's Naval Reactors Office and is currently managed and operated by Bechtel-Bettis.

Public access to INL has been restricted since its inception in the 1940s and an active security force patrols all lands and facilities. When encountered, trespassers are removed immediately. Largely as a result of long term access restrictions, many cultural resources on the INL are relatively undisturbed. Vandalism is also reduced due to ongoing security patrols. However, over the past decade, unauthorized access has been noted at some INL cultural resource sites, particularly those within hunting and grazing easements, or with easy access from the paved roads that bisect or are adjacent to INL boundaries. This may be related to reductions in INL Security programs (i.e. elimination of daily helicopter patrols).

Access restrictions and security patrols do not prevent all impacts and damage to cultural resources does occur. There are five primary sources of impact:

- Natural processes such as erosion from wind and water or animal burrowing
- Livestock grazing, herding, and associated operations (i.e. watering stations/troughs, feed transport, stock camps)
- Trespassing in highly sensitive areas and unauthorized artifact collection by members of the public and possibly INL employees unaware of penalties associated with these activities
- INL projects that fail to comply with recommendations to protect cultural resources as outlined in Environmental Checklists or other environmental guidance
- Lack of regular maintenance or inappropriate preservation treatments for historic architectural properties

Under DOE-ID's INL Cultural Resource Management Plan (DOE-ID 2007a), BEA's INL CRM Office maintains an ongoing program for monitoring, assessing, and developing strategies to mitigate impacts to cultural resources as a result of these sources of impact. All of the major contractors at INL provide funding, as appropriate, to support this effort. This report provides a summary of the cultural resource monitoring activities completed in fiscal year (FY) 2008.

#### 2. MONITORING PROGRAM DETAILS

A detailed description of the INL CRM Office monitoring program is located in Appendix L of the INL Cultural Resource Management Plan (DOE-ID 2007a). Monitoring enables INL CRM staff to document if the integrity of known resources is being compromised by natural processes, by unauthorized activities, by lack of maintenance or inappropriate preservation measures, or by INL projects. When impacts to cultural resources are identified in this manner, actions to avert further deterioration can be initiated and federal stewardship responsibilities are fulfilled.

#### 2.1 Process of Selection

Specific cultural resources are chosen for monitoring based on feedback from DOE-ID, the Shoshone-Bannock Tribes Heritage Tribal Office (HeTO), and INL stakeholders. The INL CRM archives, which include documentation of over 2,500 archaeological resources and more than 200 historic architectural properties on the INL, are also consulted for appropriate candidates for yearly monitoring. Both DOE-ID and the Shoshone-Bannock Tribes are often directly involved in fieldwork during the monitoring activities and INL project managers and other stakeholders, such as the Idaho State Historic Preservation Office (SHPO), also participate occasionally. Certain resources, like Middle Butte, Prickly, and Aviators Caves, sensitive localities inside the Power Burst Facility (PBF, now Critical Infrastructure Test Range Complex-CITRC), and the Experimental Breeder Reactor-I (EBR-I) National Historic Landmark, are monitored every year. Others, such as historic homesteads and some prehistoric archaeological sites are also visited routinely because of their location in highly visible areas where trespassing has been documented in the past. Each year INL CRM staff also conducts surveillance of resources in a wide variety of settings to address ongoing research interests and the overall focus of INL construction and project activities for the year.

Monitoring of INL projects is completed under direct project funding and may be included as part of an INL Environmental Checklist or other environmental guidance. In FY 2008 monitoring was targeted at several different INL activities and involved different INL contractors. In one FY 2008 example, a Landfill Closure Plan (DOE-ID 2008) mandated the surveillance and in two others, monitoring was stipulated as part of "Findings of No Significant Impact" associated with National Environmental Policy Act (NEPA) Environmental Assessments for the National Security Explosive Test Range (DOE-ID 2007b) and Wildland Fire Management (DOE-ID 2003).

Project-specific monitoring is also routinely completed in the sandy aeolian soils inside the boundaries of the PBF-CITRC area, where Native American human remains have been discovered in both primary and secondary contexts. Cultural resource monitoring of projects that involve soil disturbance within this facility complex is routine and required by company procedures (e.g. BEA's LWP-8000 and CWI's MCP-3480). This level of cultural resource oversight ensures that any new discoveries of human remains will be managed appropriately.

Forms developed by INL CRM Office staff are completed for every cultural resource monitoring trip. Hard-copy and electronic versions of these documents are maintained in the INL CRM files and are reproduced for FY 2008 here in Appendix A to this report. INL CRM files also include a variety of photographic documentation of monitoring efforts, reproduced here only in part due to the extremely large size of these high quality electronic images.

#### 2.2 Findings and Documentation

Under the INL CRM monitoring program, there are four possible findings for a given monitoring trip, based on the level of disturbance noted:

- **Type 1**: no visible changes to a cultural resource and/or a project is operating within the limits of cultural resource clearance recommendations
- Type 2: impacts are noted but do not threaten the National Register eligibility of a cultural resource and/or a project is operating outside of culturally cleared limitations but no cultural resources have been adversely impacted
- Type 3: impacts are noted that threaten the National Register eligibility of a cultural resource and/or a project has been operating outside of culturally cleared limitations and impacts to non-eligible cultural resources have occurred
- **Type 4**: impacts that threaten the National Register eligibility of a cultural resource are occurring during the monitoring visit, justifying the use of the INL Stop Work Authority (LWP-14002, MCP-553)

If Type 2, 3, or 4 impacts are documented during a monitoring trip, notifications are made to project managers, the DOE-ID cultural resources coordinator, and various other parties, as appropriate, according to the severity of the disturbance. Typically, Type 2 impacts can be corrected at once with the cooperation of INL project managers, security personnel, and/or landlord organizations. In these instances, the impacts are only reported in summary fashion in year end reports. Some Type 2 and all Type 3 or 4 impacts prompt formal investigations by the INL CRM Office. INL project managers, security, and/or landlord organizations, DOE-ID, and Shoshone-Bannock tribal representatives may also participate in these investigations.

Results of all monitoring and formal impact investigations are summarized annually in a year-end report to DOE-ID (cf. INL CRM 2007) and also appear in a higher level summary of INL CRM Office yearly activities (cf. Braun et al. 2008) that is sent to DOE-ID and other parties such as the Idaho State Historic Preservation Office, the Shoshone-Bannock Tribes, and stakeholders.

#### 3. RESULTS OF FY 2008 MONITORING

In FY 2008, 55 monitoring forms were completed throughout the year to document individual site visits, to assess project compliance with cultural resource recommendations, to confirm the locations of specific cultural resources in relation to project activities, to assess the damage caused by fire-fighting efforts, and to watch for cultural materials during ground disturbing activities in sensitive areas. All FY 2008 forms are reproduced in Appendix A. Representatives from INL projects, INL Environmental Compliance, DOE-ID, and the Shoshone-Bannock Tribe's HeTO participated in some of the trips in FY 2008. At the request of tribal representatives, multiple trips were made to several INL caves. Several trips were also made to monitor archaeological sites and project activities associated with the National Security Explosive Test Range in order to evaluate progress toward increased awareness of cultural resources and halt impacts to them. These and other monitoring results are detailed in the sections to follow. Although some impacts were documented during the year, none were determined to be adverse.

#### 3.1 Individual Resources

In FY 2008, INL CRM staff conducted official surveillance of 45 individual cultural resources, including two locations of heightened Shoshone-Bannock tribal sensitivity, four caves, one butte, twenty-eight prehistoric archaeological sites, three historic homesteads, two historic stage stations, one historic canal construction camp, three historic trails, and the EBR-I National Landmark. As noted in the discussions to follow, a handful of resources were visited on multiple occasions. Forms that document individual observations and recommendations are included in Appendix A.

#### 3.1.1 Resources of High Tribal Sensitivity

Two INL localities that include sensitive Native American human remains are visited at least once a year for monitoring and stabilization, as necessary. These are the Waste Experimental Reduction Facility (WERF) remains (10-BT-2046), located within the PBF-CITRC area, and Prickly Cave (10-BT-2037). In FY 2008, no new or adverse impacts were observed at the WERF site and measures to stabilize the sensitive remains at this locality appear to remain adequate. However, Type 2 impacts similar to those observed in FY 2007 were again documented at Prickly Cave.

Prickly Cave is a natural lava tube brought to the attention of INL CRM staff by security helicopter pilots in the late 1980s. At various times in the past, the Cave was used as an internment site for at least two Native American individuals. Human bones and perishable artifacts are scattered about the surface inside the lava tube and nonperishable materials occur on the ground surface above. In the early 1990s, additional Native American human bones (10-BT-1991) were salvaged from a disturbed context in the PBF-CITRC area and placed for safekeeping under an introduced rock cap inside the Cave according to Shoshone-Bannock wishes. Since that time, yearly visits have been made to confirm that the Cave and its sensitive contents remain undisturbed.

During a visit to Prickly Cave late in FY 2007, INL CRM staff and Shoshone-Bannock tribal representatives discovered that a loose human bone had been transported out of the protection of the Cave interior and deposited on the ground surface outside (INL CRM 2007). Upon discovery, the sensitive item was returned to its mapped location inside the Cave, but in FY 2008, it had once again been moved to a different location inside the Cave. No other items, including other loose bones and artifacts as well as the bones from 10-BT-1991 located beneath the introduced rock cap, appear to have been moved. All evidence suggests that animals were the culprits in this series of Type 2 impacts. No evidence of

unauthorized human or INL project activity was observed. At the request of tribal representatives in FY 2008, the recently transported bone was placed near the secure remains from 10-BT-1991, padded with sagebrush cuttings, and secured beneath basalt roof-fall fragments obtained from inside the Cave. Monitoring will continue at this sensitive location.

#### 3.1.2 Caves

The basaltic landscape of the INL was formed by lava extruded from low shield volcanoes during the Pleistocene epoch. Over time the flows have accumulated, layer upon layer, with periods of quiescence marked by inter-bedded deposits of aeolian, lacustrine, and alluvial sediments. The basalt flows often contain lava tube systems, with entrances created by partial roof collapse. In some cases, the collapses have formed simple shelter caves with little subsurface extent, but long underground caverns are also present. Entrances range from high vertical drops to easy surface walk-in approaches.

As of FY 2008, 27 caves have been inventoried within the boundaries of the INL. Geologically, biologically, and culturally, each of these resources is unique. Though all were formed from the same basic set of geological forces, each exhibits a different physical setting due to erosion, mineralogy, and other environmental factors. These differing settings support a wide variety of contemporary biological communities; insects, rattlesnakes, bats, packrats and other small mammals, carnivores, and raptors all find suitable homes in INL caves. Some caves even contain ancient paleontological and/or pollen records documenting long term change in biological communities and climatic conditions through time.

For thousands of years, humans have been drawn to INL caves seeking shelter, work areas, and unique opportunities for caching food and valuables. Some caves have also served unique roles in hunting, spirituality, religion, communication, and education. Sensitive archaeological materials (e.g. human remains, perishable artifacts, fragile deposits underfoot) and cultural features (e.g. pictographs, rock features, hearths) remain inside caves today as a fragile record of these many uses. These materials exhibit remarkable potential for providing information of value in understanding the past and as a result, the caves that contain them are eligible for nomination to the National Register of Historic Places. Caves also retain enduring cultural significance to the Shoshone-Bannock Tribes and are a source of fascination to the general public. Scientific interest is also high, with ongoing research on the caves, themselves, as well as their resident and fossil plant and animal populations and sensitive archaeological deposits.

Due to their high sensitivity, a variety of INL caves are monitored every year and some locations are visited several times per year. In FY 2008, Moonshiners Cave (10-BM-48), Rattlesnake Cave, Middle Butte Cave (10-BM-34), and Aviators Cave (10-BT-1582) were monitored. No impacts were observed at Moonshiners or Rattlesnake Caves. However, Type 2 impacts were investigated at Middle Butte and Aviators Caves.

#### 3.1.2.1 Middle Butte Cave

Middle Butte Cave (10-BM-34) is a large lava tube, with a cavernous opening and a subterranean extent of nearly 0.4 miles (Figure 1). Artifacts and paintings on the walls, both ancient and modern, indicate that the Cave has been a destination for human populations for a very long time. The earliest visitors created five panels of pictographs in red pigment on vertical rock surfaces near the mouth of the Cave that depict various human figures, geometric and abstract designs, and buffalo. These huntergatherers also left a variety of portable artifacts such as fragmentary projectile points. In historic times, local residents began to visit the Cave as early as the teens or 1920s, "motoring" there from Blackfoot and hosting a contest to name the Cave (Gilbert 2008). These visitors also left their marks on many vertical



Figure 1. Entrance to Middle Butte Cave

walls in the Cave, using a variety of paints, chalks, charcoal, and sharp implements to record names, dates, and numbers apparently dating back to as early as 1925 (Figure 2). Several large fire pits were also created by these visitors and artifacts reflecting short term modern camping were left behind.

Scientific interest in Middle Butte Cave began in 1930, when it was included in an inventory of "Indian Rock Writing" in Idaho (Erwin 1930). In 1967 the Cave was recorded again as part of an early archaeological survey of the National Reactor Testing Station (Butler 1968, 1970) and at this time researchers noted the potential of soil deposits in the Cave to yield important information. No archaeological excavations have ever been conducted at Middle Butte Cave, but in the 1970s, paleontologists collected samples of fossil bones and pollen from subsurface pits inside the Cave. Study of these materials has revealed important information on ancient biological communities and long term climate change in the region (Bright and Davis 1982, Davis and Bright 1983, White et al. 1984, Davis et al. 1986, Mullican and Carraway 1990).

In spite of its location on restricted INL lands, Middle Butte Cave remained a popular destination for weekend recreationists for decades. In the 1990s, the INL CRM Office provided support to formally record and document the fragile pictographs (Boreson 1992), which over the years had been adversely affected by vandalism, granular disintegration, calcite deposits, and algal growth. Steps were also taken to restrict access to the Cave, prohibit camping there, and remove the more recent graffit since it tends to



Figure 2. Older graffiti in Middle Butte Cave.

generate additional vandalism and is offensive to Native Americans who view Middle Butte Cave as a very special place. The DOE-ID supported these efforts and in 1994, negotiated a Memorandum of Agreement with the Shoshone-Bannock Tribes recognizing significant tribal interests at the Cave for ceremonial, cultural, and educational activities and assuring continued access (DOE-ID 1994).

Public interest in INL caves and in Middle Butte Cave particularly has reached an all time high in the past decade. However, access to the Cave is now limited to official tours. Shoshone-Bannock tribal members of all ages are free to visit the Cave at their convenience under the MOA with DOE-ID and they do so fairly routinely. Since 2004, local school children and their teachers have gained an appreciation for local Native American people and their desert home by visiting Middle Butte Cave during the Rocky Mountain Summer Science Camp sponsored by INL's ecological contractor, the S. M. Stoller Corp. and the Museum of Idaho, and supported by INL CRM Office staff. INL employees and visitors are also occasionally escorted to the Cave. Visitation, at least in the summer months is at an all time high and tour guides are responsible for following Cave Visitation procedures that protect participants as well as the sensitive biological and cultural resources found at the Cave.

During monitoring in FY 2008, INL CRM staff observed new graffiti in the furthest underground reaches of Middle Butte Cave, approximately 0.38 miles from the surface entrance in a wide round chamber at the end of the lava tube. This chamber has been vandalized many times over the years, but no ancient pictographs have been observed there. The new graffiti included a date of "5/2/08" and several names. In a joint investigation with the Bingham County Sheriff's Office, INL Security was able to identify and locate the teenaged vandals. In order to avoid charges for trespassing and vandalism to sensitive archaeological materials, the culprits were escorted to the Cave by the county law enforcement

officials and INL security guards to cleanup their graffiti. Fortunately, none of the sensitive archaeological paintings in the cave were impacted by the thoughtless actions of these young people. In the future, tour guides to the Cave will inform visitors of this incident and stress the need to protect the Cave from such impacts. Monitoring will continue to help in the prevention of additional impacts.

#### 3.1.2.2 Aviators Cave

Aviators Cave (10-BT-1582) is another large INL lava tube with extensive evidence of prehistoric use and contemporary significance to the Shoshone-Bannock Tribes. Substantial archaeological deposits in and around the surface of the lava tube preserve a unique, detailed record of seasonal Native American occupation from approximately 1,300 – 150 years ago. The Cave was discovered by security officers on routine helicopter patrol in 1985. In 1989, DOE-ID and the CRM Office supported limited archaeological investigations there, including small scale test excavations (Lohse 1989, INEL CRM 1993). These investigations revealed a well-stratified record of successive seasonal occupation over the past thousand years by hunter-gatherers relying on local plant and animal resources for subsistence, but also participating in long-distance trade.

A remarkable assemblage of perishable artifacts was discovered during the excavation including: bits of twine and string, twists of rabbit fur probably woven into blankets, mats made from sagebrush bark, grass and reeds, strips of hide with fur still attached, leather scraps, hair, basketry fragments, sinew strips, carved wood, arrow shafts and fletching feathers, snare fragments, bone awls and beads, and dentalia shells that can be traced to the northwest coast of North America. Broken and charred bones from many different local animal species and a variety of local seeds and plant remains hint at the kinds of foods that were brought to prehistoric hearths and the times of year in which the Cave was probably occupied. Stone tools were also abundant and included small arrow points of several varieties, arrow-making tools, scrapers, drills, pipe fragments, expedient flake tools, and a wealth of lithic raw materials of many different kinds. Prehistoric pottery and stones used to process plant materials round out the assemblage and complete an unprecedented glimpse into everyday life a thousand years ago.

Shoshone-Bannock tribal representatives place great value on Aviators Cave as an important part of their cultural and spiritual heritage. Every year, they assist INL CRM staff in monitoring, often on multiple occasions, and occasionally, tours of the Cave are arranged for tribal members. Tribal participation in annual monitoring at Aviators Cave has become increasingly important since 2002, because at this time DOE-ID allowed tribal representatives to return some especially sensitive artifacts to an area in the Cave that is known only to them. On yearly visits, they inform INL CRM staff of any changes. Fortunately, there have been no disturbances to these materials noted to date.

Aviators Cave is located in a remote, undeveloped portion of the INL where few roads lead. Indeed, prior to the test excavations in 1989, the site had probably seen very few, if any, historic or modern visitors. While general knowledge of the location of the Cave is widespread within the INL employee community, specific knowledge is limited to INL CRM staff, DOE-ID, ecological researchers from the S. M. Stoller Corp., tribal representatives, and a few visitors escorted to the area on official tours. Even so, over the past decade unauthorized access to the Cave has been on the increase. This recreational visitation has probably been facilitated by a range fire that occurred in FY 2000. Fire breaks created to fight this blaze pass very close to the Cave and shortly after the burn, INL CRM staff and Shoshone-Bannock tribal representatives documented the first known off-road vehicle incursion to the area.

Since vegetation has returned, unauthorized visitors to the Cave appear to be arriving on foot, but with some apparent regularity as new footprints are noted nearly every year. FY 2008 was no exception. During INL CRM and tribal monitoring in August, new footprints were observed inside the Cave and artifacts from the surface were collected and left in a pile near the entrance (Figure 3). It is also



Figure 3. Evidence of unauthorized artifact collection at Aviators Cave (coin included for scale).

possible that artifacts were removed from the site but fortunately, there was no evidence of illegal excavation at the surface or inside the Cave. In the past, INL CRM staff has worked with INL Security and others to warn INL employees that disturbance of archaeological materials is unlawful through annual INL access/security training. Clearly, some employees disregard these rules or perhaps the vandals are not regular INL employees. Because the FY 2008 rearrangement of artifacts at the site represents an escalation in unauthorized activities, INL CRM staff will take extra steps ahead of the summer field season in FY 2009 to contact Security at the nearby Materials and Fuels Complex to enlist their help in protecting the area. Monitoring will also continue on a regular basis.

#### **3.1.3** Buttes

INL contains many low buttes and craters with complex archaeological sites spanning thousands of years of human occupation. Rattlesnakes are also a common component at these localities and must be considered when planning field work. In FY 2008, INL CRM staff visited one of the most prominent buttes in the area, Middle Butte. This local landmark is undeveloped and quite remote. No roads lead to its summit. Previous archaeological surveys have revealed light evidence of prehistoric activities and a larger historic component related to the earliest government-sponsored land surveys of the region in the late 1800s (Figure 4). During a springtime monitoring trip in FY 2008, it was clear that few people venture to the top of the Butte and no impacts were documented at any of the archaeological localities present there.



Figure 4. Historic debris atop Middle Butte with a view of East Butte in the distance.

#### 3.1.4 Prehistoric Archaeological Sites

There are thousands of prehistoric archaeological sites within INL boundaries, ranging in age from more than 10,000 to 150 years old. The great antiquity of many of these sites is notable and provides justification for routine visitation and care to prevent adverse impacts. In FY 2008, INL CRM staff monitored three large and highly visible prehistoric archaeological sites. No new impacts were documented during visits to any of these localities, which included: the Wind-gap Folsom Site (10-BT-1449), Juniper Bends (10-BT-675), and the Pioneer Site (10-BT-676).

A large number of prehistoric archaeological sites were monitored in FY 2008 to assess impacts in relation to specific INL project activities (see Section 3.2 for additional detail on project-specific monitoring). In brief, these monitoring efforts revealed the following:

- At the Test Area North Demolition Landfill, fences erected around the perimeters of two prehistoric campsites (10-BT-1236, BBWI-03-22-01) have protected the sensitive materials from all impacts.
- At three prehistoric campsites located along the Big Lost River (10-BT-2192, 10-BT-2193, 10-BT-2189), no new impacts were observed at a series of backhoe trenches that were backfilled in FY 2007.
- At nine prehistoric lithic scatters located near the National Security Explosive Test Range (10-JF-85, 10-JF-84, 10-JF-83, 10-JF-80, 10-JF-78, 10-JF-77, 10-BM-123, 10-BM-124, BEA-06-20-07), road maintenance activities were found to be extending to the edge of the existing disturbed roadbed and

disturbance was eminent. INL CRM staff worked closely with project and INL Environmental Compliance personnel to address this project creep and protect the sites. In addition, no impacts from ongoing explosive testing were apparent at Hellofasite (10-JF-88), a prehistoric campsite with rock structures.

• Type 2 impacts were documented at two prehistoric lithic scatters (10-BT-1053, 10-BT-1062) as a result of emergency fire-fighting efforts. Artifacts were exposed in fire breaks that pass through these site areas, but the resources remain otherwise undisturbed. Artifact inventories for the sites were expanded significantly due to increased surface visibility in the absence of vegetation. INL CRM staff will work with INL project managers to avoid additional disturbance to these sites during rehabilitation in FY 2009 (Figure 5).



Figure 5. Pink flags marking artifacts in a fire break at prehistoric lithic scatter 10-BT-1053

Several INL projects in 2008 required field visits to confirm the locations of specific prehistoric archaeological sites in relation to proposed activities. Monitoring forms were completed to document the condition of the sites that were revisited, since many had not been evaluated since their original recordings often more than two decades ago. All of the resources visited were undisturbed and once the locations were confirmed, INL CRM staff worked with project personnel to design project activities to avoid any new impacts. The following projects and sites were included in this effort:

- Five lithic scatters (10-BT-571, 10-BT-1086, 10-BT-1087, 10-BT-1075, 10-BT-1068) located around the perimeter of the Infiltration Test Basin south of the Radioactive Waste Management Complex.
- Two campsites (10-BT-1438, 10-BT-1436) located northeast of the Naval Reactors Facility.
- One lithic scatter (10-BT-1209) located in the PBF-CITRC area.

#### 3.1.5 Historic Archaeological Sites

During the period from 1884 to roughly 1930, many hardy and intrepid settlers filed homestead claims on lands that would eventually be designated as the INL. U.S. federal laws that encouraged settlement of western deserts were the primary catalysts for these activities. In the INL region, the Carey Land Act of 1894 and the Desert Reclamation Act of 1902 were especially important and influential. Many types of historic archaeological sites remain as a result of this time, including homesteads, stage and freighting stations, boom towns that arose primarily along the Oregon Shortline Railroad, ditches and canals and the construction camps that were often necessary to support them.

In recent years, the inventory of historic archaeological sites on the INL has been significantly expanded through archival research conducted by INL CRM staff. Hundreds of late 19<sup>th</sup> – early 20<sup>th</sup> Century homestead claims have been discovered, important local stage/freighting stations have been confirmed, canals have been examined and several large construction camps have been found in association. Ongoing field investigations have confirmed the locations of many significant archaeological sites. Monitoring of several of these sensitive localities has become routine. In FY 2008, two historic stage stations, three homesteads, and one canal construction camp were visited with the following results:

- No significant new impacts were observed at INL's two known historic stage stations, the Powell Station (10-BT-2194) and the Birch Creek Station (BEA-07-32-115). At the Powell Station, heavy equipment was employed to plant native seed and sagebrush seedlings on the nearby backhoe trenches, which were backfilled in FY 2007, but no impacts occurred to the archaeological materials.
- A total of three historic homesteads were revisited in FY 2008. Two of these sensitive sites, the Richards homestead (BEA-06-31-Richards) and the Kuharski homestead (BEA-07-32-114) are located in high traffic, easily accessible areas and are probably visited often by passersby. No new impacts were observed at either location in FY 2008. A third homestead, the Wilkins site (10-BT-1370) was also revisited in FY 2008 to confirm its location outside the area of potential effect for construction of new sewage lagoons at the Naval Reactors Facility. Monitoring of this location will continue in FY 2009 as these ponds are built.
- Potential impacts from INL project activities were assessed during monitoring of an historic canal
  construction camp (LMIT-96-51-03) in FY 2008. In this case, off-road ordnance surveys utilizing a
  6-wheeled all terrain vehicle (ATV) and equipment cart under strict conditions captured in a related
  Environmental Checklist, were monitored through the site area. No artifacts were broken or
  displaced and structural remains were unaffected by the off-road survey.

#### 3.1.6 Historic Trails

INL lands are crossed by a multitude of unimproved trails, many dating to historic times around the turn of the 20<sup>th</sup> Century. These trails were important links between communities along the Snake River (e.g. Blackfoot and Eagle Rock/Idaho Falls) and those located in mountain valleys to the west and north (e.g. Mackay, Howe, Arco). People, goods, and stock passed freely along the established paths and encouraged economic growth in the region. Continued sporadic travel on the trails today by modern vehicles ensures that they remain visible on the contemporary landscape and is actually a positive impact. However, heavy vehicle and stock traffic and inappropriate maintenance can adversely impact the trails and destroy the context of nearby archaeological resources.

In FY 2008, adverse impacts related to inappropriate FY 2002 maintenance were still visible along one important INL trail, T-1/Goodale's Cutoff. Fortunately, undisturbed segments of this northern spur of the Oregon Trail do remain on INL lands and in places, exhibit original wear from wagon wheels as well as metal scrapings, loose horse shoe nails, and broken wagon parts, over rocky outcrops where the going was rough. Type 2 impacts as a result of overuse during the Spring grazing season were

documented along T-1 in FY 2008 and this is an ongoing problem for several historic trails on the INL. INL CRM staff continues to work with DOE-ID to engage the Bureau of Land Management (BLM) and their grazing permitees in minimizing these impacts. Remediation goals might include additional survey of the trails and documentation of the archaeological sites along them as well as working toward designating specific areas to locate temporary stock camps and watering stations.

A second historic trail, T-2/Powell's Stage Road, was also investigated in FY 2008. This trail crosses the Big Lost River on INL lands at the historic Powell's Stage Station. In FY 2008, this trail appeared to be in good shape with minimal impacts due to traffic or grazing. State-of-the-art geophysical mapping tools employed in the investigation of the Stage Station may prove useful in future projects to delineate and characterize historic trails. At the T-2 river crossing, several side routes have been identified in the geophysical imagery collected of the Station and its surroundings (Gilbert et al. 2008).

On occasion, INL project activities also have the potential to impact historic trails. Early in FY 2008, monitoring of a segment of T-20/Blackfoot-Little Lost River Road revealed Type 2 impacts that were easily corrected by redirection of project activities. In this situation, the integrity of T-20 was being jeopardized by use as a parking and turnaround area near a temporary flag pole. High traffic had begun to create a wide zone of disturbance that was erasing the original trail. INL CRM staff worked with project personnel to move the flag pole and eliminate the impacts. Monitoring will continue in this high traffic area.

#### 3.1.7 Experimental Breeder Reactor-I

Experimental Breeder Reactor-I (EBR-I) is INL's single designated National Historic Landmark, recognized as such because of its association with the early development of nuclear power and reactor technology. It is the only INL facility open to the public on a seasonal basis (Memorial Day through Labor Day, annually). In past years, the site has benefited from a "Save America's Treasures" grant, which supported updated exhibits to enhance the Visitors Center and addressed some preservation issues (brick and mortar restoration) (Braun 2006). In FY 2008, no new impacts were observed from project or visitation activities at EBR-I. INL CRM staff continues to work with DOE-ID and INL landlord organizations to address ongoing maintenance and preservation, including technical problems related to the educational displays, drainage issues, and a pending roof replacement.

#### 3.2 Projects

Project-specific cultural resource monitoring in FY 2008 took several different forms. In one type, archaeological sites previously recorded in the vicinity of new INL projects were revisited to confirm that no impacts would occur as a result of the activities proposed. These reviews are presented in Section 3.1 according to the types of archaeological resources investigated. In a second type of project monitoring in FY 2008, INL projects were randomly selected and audited for compliance with cultural resource recommendations made during the INL environmental review process. Finally, in a third type of project monitoring, INL CRM staff directly observed ground disturbance associated with INL project activities in archaeologically sensitive areas. In total, seven projects were monitored. Results appear in the Sections to follow.

#### 3.2.1 National Security Explosive Test Range

INL CRM staff cooperated with DOE-ID and INL Environmental Compliance personnel early in FY 2008 to correct several issues regarding archaeological resource protection at BEA's National Security Explosive Test Range. At issue were vehicle turnarounds and expanded maintenance of road T-25 (Figure 7), extension of project activities into unsurveyed areas, failure of project personnel to attend



Figure 6. Road maintenance impacts along T-25 leading to the National Security Explosive Test Range.

cultural resource awareness training, and ground motion monitoring results for Hellofasite (10-JF-88). During the course of the year, project personnel corrected these problems and continue to work cooperatively with INL CRM staff to prevent impacts to sensitive cultural resources. Two separate cultural resource monitoring trips confirm their progress toward meeting the requirements of the NEPA Environmental Assessment prepared for the project (DOE-ID 2007b, Pace et al. 2006).

#### 3.2.2 Long Term Ecological Sampling

Ecological sampling teams employed by CWI, the INL site cleanup contractor, travel to many undeveloped areas during the course of their summer field activities. In the process, they drive through, walk through, and even collect biological samples within the boundaries of sensitive archaeological sites. In FY 2008, INL CRM staff monitored their activities to ensure that simple rules for protecting archaeological sites were being followed. Project personnel had been trained in cultural resource awareness/protection, vehicles were limited to existing roads, and all activities were being conducted in areas that had been surveyed for cultural resources. No adverse impacts had occurred, nor are any anticipated by this ongoing project.

#### 3.2.3 Powerline Testing

Project developments associated with a FY 2008 BEA powerline testing project on the 135kV line stretching from PBF-CITRC east to the Materials and Fuels Complex included three large gravel pads for equipment installation, several new power poles, installation of a new cable on existing power poles, and road maintenance. During monitoring visits in FY 2008, it was clear that ground disturbance associated with this work was restricted to the surveyed areas and none of the sensitive archaeological sites located in the vicinity were being impacted. In addition, no cultural materials were observed during direct observation of ground disturbing activities necessary to prepare the new equipment pads.

#### 3.2.4 Big Lost River Trenches Revegetation

In 2002, DOE-ID, the U. S. Bureau of Reclamation, and various University partners initiated a paleohydrology study to develop a defensible and consistent interpretation of flood history and flood hazards on the INL. Several backhoe trenches excavated into Big Lost River floodplain deposits near the modern riverbed were necessary to support this investigation. INL CRM staff assisted this project in the assessment and mitigation of impacts to cultural resources (Pace 2002a, 2002b). A NEPA Environmental Assessment and Memorandum of Agreement between DOE-ID, the Idaho SHPO, and Advisory Council on Historic Preservation guided project activities at one trenching location (DOE-ID 2002).

In FY 2007, the trenches were backfilled under the direction of the S. M. Stoller Corporation, DOE-ID's ecological support contractor. INL CRM staff and Shoshone-Bannock tribal representative were on hand to monitor all ground disturbances and no sensitive cultural materials were observed. In FY 2008, S. M. Stoller personnel returned to the trenches to plant native seed and sagebrush seedlings over the disturbed areas (Figure 6). Heavy equipment operations were again monitored for cultural resource impacts during this work and no sensitive materials were uncovered. Sensitive historic features at the Powell Stage Station were also protected from any new impacts.

#### 3.2.5 Geophysical Surveys for Subsurface Unexploded Ordnance

From 1942 to 1949 and again in 1968, lands and facilities that are now part of the INL filled an important role in national defense as part of the Arco Naval Proving Ground. During these times, the U.S. Navy and Army built facilities to test-fire large naval guns used during World War II and the Vietnam War, practiced aerial bombing techniques, conducted tests to determine the most effective ways of transporting and storing ammunition and ordnance, and disposed of old ordnance devices and components that were no longer useful.

Cleanup of the unexploded ordnance (UXO), ordnance components, and explosive compounds that remain from these activities has been ongoing at INL since 1994. Archaeological surveys have been completed to identify archaeological resources within defined ordnance areas and assess the potential effects of cleanup activities on them (cf. Pace 1997). In FY 2007, geophysical surveys were initiated to evaluate UXO that still remains beneath the surface at identified ordnance areas, utilizing cart-mounted magnetometers and a 6-wheeled ATV to collect data.

In the gravelly floodplain soils that have been mapped with the ATV-cart setup to date, impacts have been minimal. In sandier deposits, slight lateral displacement of soils has been observed in the tracks of the ATV, but even these effects in these particular soils have proven to be negligible and not much greater than heavy foot traffic. In FY 2008, mapping efforts were focused at two areas, one near the INL Experimental Field Station, also known as the Dairy Farm, and a second known as the Fuze Burn area. Operations were again monitored by INL CRM staff to determine if known archaeological resources were

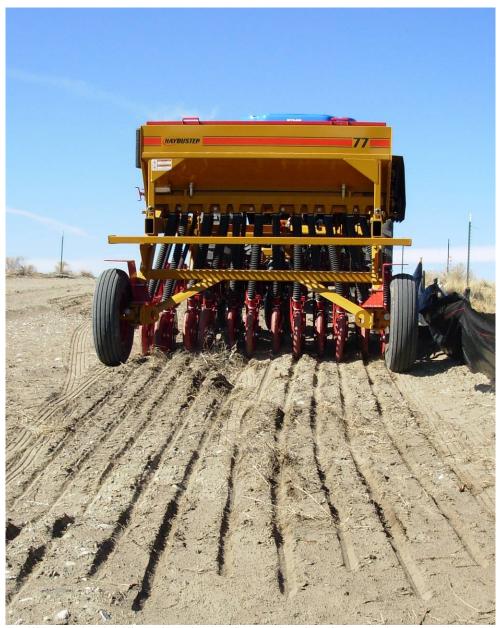


Figure 7. No-till Rangeland drill used to plant native seed at the Big Lost River Trenches.

being impacted by the work. As was documented in FY 2007, no adverse impacts occurred when transects were made in FY 2008 over the surface at a historic canal construction camp (LMIT-96-51-03). Ground surfaces at the Experimental Field Station also displayed no adverse impacts, although there were no known archaeological sites in this ordnance area. Data collected during the geophysical surveys may also be useful in future archaeological investigations. The ATV and cart will be considered and evaluated for use in other ordnance cleanup areas on a case-by-case basis.

#### 3.2.6 Test Area North Demolition Landfill

In 2003, a new landfill was developed at INL's Test Area North (TAN) to support ongoing demolition activities at facilities in the northern portion of the Laboratory. Archaeological investigations completed in advance of the project revealed two sensitive archaeological sites within the area of potential effect for construction and operation of the new landfill (Pace 2003). In order to protect these sensitive resources from harm during initial development and ongoing day-to-day operations, fences were built around their perimeters. Monitoring in FY 2008 demonstrated that the sites have been protected from impact. Artifacts appeared to be untouched and changes to the surrounding landscape appeared relatively subtle. The surrounding area should return to an approximate pre-Landfill appearance after reestablishment of native vegetation within the next few years. At this time, when all threats of impact are gone, the fences can be removed.

#### 3.2.7 Power Burst Facility-Critical Infrastructure Test Range Complex

Company environmental procedures require project managers to contact the INL CRM Office in advance of ground disturbance within the fenced boundary of PBF-CITRC. This is due to the occurrence of human remains in original as well as secondary contexts at two separate locations within the facility. Accelerated cleanup across the INL and new activities to support National Security have resulted in an increase in the number of projects at this facility. In FY 2008, these activities included removal of a subsurface tank, leveling of a soil berm, waterline capping and removal, road grading, and excavation for new equipment pads near the electrical substation. On five occasions in FY 2008, ground disturbance of this nature was monitored for human remains. No sensitive materials were observed at any time.

#### 4. RECOMMENDATIONS

Monitoring is an effective method of documenting impacts to INL cultural resources and is a necessary first step in prevention. Several broad recommendations result from FY 2008 surveillance. First, at a minimum, the condition of the following resources of high sensitivity should be assessed in FY 2009:

- WERF Remains (10-BT-2046)
- Prickly Cave (10-BT-2037)
- Middle Butte Cave (10-BM-34)
- Aviators Cave (10-BT-1582)
- Pioneer Site (10-BT-676)
- Powell Stage Station (10-BT-2194)
- Goodale's Cutoff
- Experimental Breeder Reactor I National Historic Landmark

In FY 2009, INL CRM staff should also continue to work with DOE-ID, HeTO tribal representatives, and project personnel, as appropriate, to implement protections to prevent future impacts at several sensitive Caves, including: Prickly (10-BT-2037), Middle Butte (10-BM-34) and Aviators (10-BT-1582). Ongoing impacts from heavy traffic and grazing-related activities along INL's historic trails should also be tracked and mitigation initiated, as necessary, with the cooperation of DOE-ID, the BLM, and individual grazing permit holders. Finally, soil disturbance at the PBF-CITRC area should continue to be regularly monitored for additional occurrences of sensitive Native American human remains, even in disturbed contexts and especially those associated with original facility construction in the 1950s and 1960s.

In the project realm, ongoing INL CRM staff participation in ordnance surveys and controlled offroad use of the ATV and geophysics cart should continue in FY 2009. The method should also be evaluated for deployment at other ordnance areas as appropriate based on a case-by-case review. Additional monitoring of the rock features and extensive surface artifacts at Hellofasite (10-JF-88) and the many archaeological sites located along the T-25 powerline road near the National Security Explosive Test Range are also imperative as activity levels at the Range are anticipated to remain high.

Cultural resource monitoring in FY 2009 should also be focused on several broad classes of other INL cultural resources and projects, as funding allows. Minimally, this might include:

- Archaeological sites located in high traffic areas such as the INL boundary and Grazing Boundary or where unauthorized visitation is likely
- Historic homesteads, including those identified during ongoing archival research
- Historic trails
- Buttes, craters, and caves
- World War II buildings and features at Central Facilities Area and within the broader Naval Proving Ground
- Areas burned by wildfire and scheduled for rehabilitation
- INL powerline research projects
- INL gun and test range safety fans

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# Appendix A Monitoring Forms

# Appendix A Monitoring Forms

Appendix A contains electronic versions of FY 2008 monitoring forms originally completed in the field. In a few cases, multiple field visits to the same site location are documented on a single form. FY 2008 forms are organized according to the following categories presented in the preceding report:

- Resources of High Tribal Sensitivity
- Caves
- Buttes
- Prehistoric Archaeological Sites
- Historic Archaeological Sites
- Historic Trails
- Experimental Breeder Reactor-I
- Projects

#### A: Resources of High Tribal Sensitivity

#### Idaho National Laboratory Cultural Resource Management Office Field Monitoring Form

Monitor Number: Monitor Name(s): Monitor Date:	CFM-08-06 C. Marler 6/18/08					
Site Name/Number: Reason for monitori	WERF burial routine	_				
Findings:	Type 1 X Type 2 Type 3 Type 4	_				
Impact Agent(s): Significance of Impa	Minor rodent burrowing- doesn't appear recent none					
Did disturbance or i	mpact extend into undisturbed areas? Yes No					
Work Halted? If yes, describe:	Yes No					
Notifications: Primary contact(s): Date contacted: Contact Method:	E-mail Phone Official correspondence, CCN#:	_				
Cultural Materials ol If yes, describe:	bserved? Yes No x					
Cultural Materials co	ollected? Yes No x					
General Comments: Recommendations:	Continue monitoring once per year	_				
Attach additional documentation, as warranted (photos, profiles, etc.)  Yes  No   X						

Monitor Number:	CFM-08-01								
Monitor Name(s):	Clayton Marler, Carolyn Smith, Diana Lowrey								
Monitor Date:	11/01/07								
Site Name/Number:	Prickly Cave								
Reason for monitoring									
	previously located inside the cave was found outside.								
_									
Findings:	Type 1         X         Type 2         Type 3         Type 4								
I	Distribution (such ables a solution of society)								
Impact Agent(s): Significance of Impa	Bioturbation (probably packrat and coyote)  Not significant								
Significance of impa	Ct. Not significant								
Did disturbance or ir If yes, describe:	mpact extend into undisturbed areas? NA Yes No								
Work Halted? NA	A Yes No								
If yes, describe: Notifications:									
Primary contact(s):									
Date contacted:									
Contact Method:	E-mail Phone Official correspondence, CCN#:								
Cultural Materials ob									
	Thin scatter of about 65 flakes, 2 bifaces and a broken piece of ground stone carved								
	urrounding the cave entrance. Cultural materials from the cave interior include haped wood and horn implements.								
_ 51	naped wood and norn implements.								
Cultural Materials co	ollected? Yes No x								
If yes, describe:									
General Comments:	The human mandible (returned to the cave interior during the 9/25/07 visit) had								
	again been moved. Although it was still inside the cave, it was situated in a bed								
	of fairly fresh prickly pear cactus likely brought into the cave by packrats, approximately 3 m distant from where it had been placed on 9/25. At the								
	request of the Tribal representative it was moved adjacent to the PBF remains,								
	padded with sage branches and lightly covered with basalt cobbles. The PBF								
	remains show no sign of disturbance since their placement in Prickly Cave in								
	1995. They are located next to the basalt cave wall and are protected by cloth								
	wrapping and a solid layer of river cobbles imported to the site to distinguish								
	them from the Prickly Cave human remains. Although a detailed inventory of								
	cultural items from the cave interior was not performed, a cursory examination revealed several previously recorded items such as the "bullroarer", horn								
	spoons, possible sagebrush torches and a possible arrow shaft. Disarticulated								
	and scattered human and animal bones were also noted. Close examination of								
	cultural materials located outside surrounding the cave entrance revealed								
	strong conformance to details provided in the site form created in 1995. Again,								
	no evidence of any unauthorized human activity was found and it is concluded								
December 1-41	that noted disturbances are the result of animal activity.								
Recommendations:	Continue monitoring twice per year								
Attach additional do	cumentation, as warranted (photos, profiles, etc.)								
If yes, describe:	,								

Monitor Number:	CFM-08-08
Monitor Name(s):	Clayton Marler, LaRae Buckskin, Carolyn Smith
Monitor Date:	7/10/08
Project: Site Name/Number	: Prickly
Reason for monito	
reason for monito	ing
Findings:	Type 1 X Type 2 Type 3 Type 4
Impact Agent(s): Significance of Imp	No new impacts
Did disturbance or If yes, describe:	impact extend into undisturbed areas? Yes No
Work Halted? If yes, describe:	Yes No
Notifications:	
Primary contact(s):	
Date contacted:	
Contact Method:	E-mail Phone Official correspondence, CCN#:
Cultural Materials of the control of	Thin scatter of prehistoric debitage outside of the cave- human remains inside the cave appeared undisturbed
Cultural Materials of the control of	collected? Yes No x
General Comments	··
Recommendations	: Continue monitoring twice per year
Attach additional d lf yes, describe:	ocumentation, as warranted (photos, profiles, etc.)  Yes  No x

### A: Caves

Monitor Number:	CFM-08-05	
Monitor Name(s):	C. Marler, D. Lowrey	
Monitor Date:	6/17/08	
Site Name/Number: Reason for monitori		
Findings:	Type 1 x Type 2 Type 3	Type 4
Impact Agent(s): Significance of Impa	act: No new impacts noted	
Did disturbance or i	impact extend into undisturbed areas? Yes	No
Work Halted? If yes, describe:	Yes No	
Notifications:		
Primary contact(s):		
Date contacted:		
Contact Method:	E-mail Phone Official correspondence, CCN#:	
Cultural Materials ol	A few flakes around the cave entrance	
Cultural Materials co If yes, describe:	collected? Yes No x	
General Comments:	:	
Recommendations:	Continue monitoring once per year	
Attach additional do lf yes, describe:	ocumentation, as warranted (photos, profiles, etc.)	No x

Monitor Number:	CFM-08-09
Monitor Name(s):	C. Marler, C. Smith, L. Buckskin
Monitor Date:	8/4/08
-	
Site Name/Number:	Rattlesnake Cave
Reason for monitori	ina: routine
Findings:	Type 1 X Type 2 Type 3 Type 4
Impact Agent(s): Significance of Impa	No new impacts
Significance of impa	<u> </u>
Did disturbance or in If yes, describe:	mpact extend into undisturbed areas? Yes No
Work Halted?	Yes No
If yes, describe:	
Notifications:	
Primary contact(s):	
Date contacted:	
Contact Method:	E-mail Phone Official correspondence, CCN#:
Cultural Materials of	bserved? Yes x No
If yes, describe:T	Thin lithic scatter on cave/crater exterior
Cultural Materials co	ollected? Yes No x
General Comments:	
Recommendations:	Continue monitoring once per year
Attach additional do	ocumentation, as warranted (photos, profiles, etc.)  Yes  No X
If yes, describe:	A warranted (priotos, promes, etc.)

Monitor Number:	CFM-08-02
Monitor Name(s):	C. Marler, Alana Jensen
	5/7/08
Site Name/Number: Reason for monitorin	Middle Butte Cave/10BM34 g:
Findings:	Type 1 Type 2 Type 3 Type 4
Impact Agent(s): Significance of Impac	New graffiti  New impact will not affect National Register eligibility- the new graffiti was found at the back of the cave where substantial other graffiti already exists
Did disturbance or im If yes, describe:	pact extend into undisturbed areas? Yes No
Work Halted? If yes, describe:	Yes No
Notifications:	
Primary contact(s):	Robert Gallegos, Chris Heyer
Date contacted:	5/12/08
Contact Method:	E-mail X Phone Official correspondence, CCN#:
	served? Yes x No nall scatter of prehistoric and historic trash around the cave exterior; pictographs side the cave.
Cultural Materials col If yes, describe:	lected? Yes No x
General Comments:	The new graffiti included a date (5/2/08) and names. BEA security was notified
	and they in turn notified the Bingham County Sheriff's Office who in turn found
	the vandals. They were required to return to the cave under escort to remove
	the graffiti. Subsequent cave visits revealed that this had been accomplished.
Recommendations:	
Attach additional doc If yes, describe:	umentation, as warranted (photos, profiles, etc.)  Yes  No x

Monitor Number:	CFM-08-11
Monitor Name(s):	C. Marler, C. Smith, L. Buckskin
Monitor Date:	8/4/08
Site Name/Number: Reason for monitori	Middle Butte Cave/10BM34 routine
Findings:	Type 1 x Type 2 Type 3 Type 4
Impact Agent(s): Significance of Impa	No new impacts  ct:
Did disturbance or ir If yes, describe:	mpact extend into undisturbed areas? Yes No
Work Halted? If yes, describe:	Yes No
Notifications:	
Primary contact(s):	
Date contacted:	
Contact Method:	E-mail Phone Official correspondence, CCN#:
Cultural Materials ob If yes, describe:T	hin scatter of prehistoric and historic debris. Rock art inside the cave.
Cultural Materials co If yes, describe:	ellected? Yes No x
General Comments: Recommendations:	Continue monitoring twice per year.
Attach additional do If yes, describe:	cumentation, as warranted (photos, profiles, etc.)  Yes  No x

Monitor Number:	CFM-	08-10									
Monitor Name(s):	C. Ma	arler, Ca	rolyn S	mith, Lal	Rae Bucksl	kin					
Monitor Date:	8/4/08	3									
Site Name/Number: Reason for monitori	ng:	Aviator' Routine		)							
Findings:	Туре	1		Type 2	! x		Type 3			Type 4	4
Impact Agent(s):		Unauth	orized	visit, artif	fact disturba	ance	e ("potter's i	oile")- foo	tprints n	oted in	nside
	_	the cav					\	,			
Significance of Impa	act:	Disturb	ance w	ill not aff	ect the Cav	e's l	National Re	egister eli	gibility-	some	
	_	surface	debita	ge was r	noved but i	t is ir	mpossible t	to tell if a	nything v	was	
	_	remove	d from	the site.	Most diag	nosti	ic tools wer	e collecte	ed from	site du	ring
	_	ISU's w	ork the	ere in the	1990's and	d dur	ring this vis	it a few b	ifaces a	nd poi	nt
	_	fragme	nts wer	e still ea	sily found.	No e	evidence of	illegal ex	cavatio	n.	
Did disturbance or in If yes, describe:	mpact	extend	into u	ndisturb	ed areas?		Ye	es	N	0	
Work Halted?		Yes		No							
If yes, describe:											
Notifications:											
Primary contact(s):		ert Galle	egos								
Date contacted:	8/6/0		/ DI		0000			0014			
Contact Method:	E-ma	aii <u>X</u>	< Pho	ne	J Oπiciai c	orre	spondenc	e, CCN#			
Cultural Materials ob If yes, describe:	bserve	d?	Yes	х	N	lo					
Cultural Materials co	ollecte	d?	Yes		N	lo	х				
General Comments:	Th	ie wae t	ha firet	visit to th	ne cave sin	ca th	ne previous	October	there w	iere na	,
General Comments.					he interven						
					ty notification						iligit
		nith.	i piace	. Occurr	ly Hountalle	nı uk	on receipt	or prioros	, iioiii C	arorym	
Recommendations:			monitor	ina twice	per year.						
Necommenuations.		niuiue I	HOHILOI	ing twice	pei yeai.						
Attach additional do If yes, describe:	cumer	ntation,	as wa	rranted (	(photos, pr	ofile	es, etc.)	Yes	х	No	

## A: Buttes

Monitor Number:	BRP-08-21
Monitor Name(s):	Brenda R. Pace, Hollie Gilbert, John Irving
Monitor Date: `	May 14, 2008
Site Name/Number:	Middle Butte
Reason for monitor	ing: Periodic surveillance of archaeological sites atop Middle Butte
Findings:	Type 1 X Type 2 Type 3 Type 4
-	
Impact Agent(s):	No impacts apparent.
Significance of Imp	act: N/A
Did disturbance or i	impact extend into undisturbed areas? Yes No X
If yes, describe:	N/A
_	
Work Halted?	Yes No X
If yes, describe:	N/A
_	
Notifications:	None required under Type 1 finding
Primary contact(s):	N/A
Date contacted:	N/A
Contact Method:	E-mail Phone Official correspondence, CCN#:
Cultural Materials o	bserved? Yes X No
	Artifacts are sparse on top of the Butte and include a few flakes of obsidian as well
	as historic debris associated with early land surveys. In 2008, a few flakes and a
<del></del>	nondiagnostic biface fragment were observed along with survey markers, a brass
	cap, and historic domestic debris.
_	,
Cultural Materials c	ollected? Yes No X
	N/A
General Comments	: Area appears undisturbed, perhaps because of the rattle snakes that make
	their homes in the surrounding rock. Area remains inaccessible to vehicles.
Recommendations:	
. ,	
Attach additional de	ocumentation, as warranted (photos, profiles, etc.)  Yes X  No
	photographs taken

# **A: Prehistoric Archaeological Sites**

Monitor Number:	CFM-08-03
Monitor Name(s):	C. Marler
Monitor Date:	5/7/08
-	
Site Name/Number:	10BT1449
Reason for monitori	ng: routine
_	
Findings:	Type 1 x Type 2 Type 3 Type 4
Impact Agent(s):	No new impacts noted
Significance of Impa	ıct:
	mpact extend into undisturbed areas? Yes No
If yes, describe:	
Work Halted?	Yes No
If yes, describe:	
Notifications:	
Primary contact(s):	
Date contacted:	
Contact Method:	E-mail Phone Official correspondence, CCN#:
<b>.</b>	
Cultural Materials of	oserved? Yes No x
If yes, describe:	
O 16 I M - 6 - 1 - 1	N
Cultural Materials co	ollected? Yes No x
If yes, describe:	
General Comments:	This site has been significantly imported in the past by vehicular traffic and
General Comments.	This site has been significantly impacted in the past by vehicular traffic, and construction debris dumping from the nearby RWMC. However the site retains
	significance due to the evidence of Folsom habitation.
Docommondational	•
Recommendations:	Continue monitoring once per year
Attach additional da	cumentation, as warranted (photos, profiles, etc.)  Yes  No   X
	cumentation, as warranted (photos, profiles, etc.)  Yes  No x
If yes, describe:	

Monitor Number:	CFM-08-04
Monitor Name(s):	C. Marler
Monitor Date: \( '	5/7/08
Site Name/Number:	Juniper Bends
Reason for monitori	<u> </u>
Findings:	Type 1         X         Type 2         Type 3         Type 4
Impact Agent(s):	
Significance of Impa	
	probable looting, no new impacts were noted
Did diaturbanes er i	impact extend into undisturbed areas? Yes No
If yes, describe:	impact extend into undisturbed areas?
Work Halted?	Yes No
If yes, describe: _	
Notifications:	
Primary contact(s):	
Date contacted:	
Contact Method:	E-mail Phone Official correspondence, CCN#:
Cultural Materials o	bserved? Yes X No
	Dense lithic scatter
Cultural Materials co	ollected? Yes No x
If yes, describe:	
General Comments:	
Recommendations:	Continue monitoring once per year
Attach additional do	ocumentation, as warranted (photos, profiles, etc.)  Yes  No X
If yes, describe:	(Finance, 40 maintain (Finance, France)

Monitor Number:	CFM-08-07
Monitor Name(s):	C. Marler, C. Smith, L. Buckskin
Monitor Date: \( '	7/10/08
,	
Site Name/Number:	Pioneer
Reason for monitori	ing: routine
Findings:	Type 1         Type 2         X         Type 3         Type 4
Impact Agent(s):	erosion
Significance of Impa	
	site's National Register eligibility
Did disturbance or i lf yes, describe:	impact extend into undisturbed areas? Yes No
Work Halted?	Yes No
If yes, describe:	
Notifications:	
Primary contact(s):	
Date contacted:	
Contact Method:	E-mail Phone Official correspondence, CCN#:
Cultural Materials o	bserved? Yes x No
	Extensive/intensive lithic scatter, buried cultural deposits, historic townsite
,00, 00001100	Exterior of interior of intillo obattor, buriou outtarur doposito, incitorio townorto
Cultural Materials co	ollected? Yes No x
If yes, describe:	
, 00, 00001100	
General Comments:	:
Recommendations:	Continue monitoring once per year
	ocumentation, as warranted (photos, profiles, etc.)  Yes  No x
If yes, describe:	

Monitor Number:	BRP-	08-12									
Monitor Name(s):	Brenc	da R. Pac	e								
Monitor Date(s):	May 5	5, 2008									
( )											
Site Name/Number:		10-BT-12	236								
Reason for monitor	ina:	Routine s	survei	llance of a	rchaeolog	ical sit	tes locat	ed within	the bou	ndarie	es of
	J _			North Dem							
	_										
Findings:	Type	1 X		Type 2		Т	уре 3			Туре	4
i iiidiiigo.	· jpo	1 /		. , po _			jpo o			. , рс	-
Impact Agent(s):		Surround	ding a	rea has be	en disturb	ned by	heavy e	auinment	denosi	tina	
impaot Agent(3).	-			aste from							the
	-			kment. Ar							
	_			s. Natural						u iioii	.1
Ciamificanae of Imp										otions	
Significance of Impa	act.			cts to arch							).
	_			en change			getation	it snould	return t	0	
	_	approxim	nate p	re-Landfill	appearan	ice.					
	_										
Did disturbance or i	-	extend in	nto ur	ndisturbe	d areas?		Ye	s	N	D	X
If yes, describe:	N/A										
Work Halted?		Yes		No	X						
If yes, describe:	N/A										
Notifications:	None	e required	d unde	r Type 1 f	inding						
Primary contact(s):	N/A										
Date contacted:	N/A										
Contact Method:	E-ma	ail	Pho	ne	Official co	orresp	ondenc	e. CCN#:			
			1			•		.,			
Cultural Materials o	hserve	d?	Yes	X	N	o [					
				as originall			 n isolate	d Elko co	rner-not	ched	dart
				fact assen							
				teep end							<u>Jilian</u>
				lat-bottom							<u> </u>
_1	Jollery	IIOIII a Gia	13310 1	iai-bolloiii	eu poi. N	OTIEW	artilacts	Wele obs	oci ved ii	1 2000	J.
Cultural Materials c	allacta	43	Yes		N	<u> </u>	<i>,</i> _				
		u:	163		IV	o <u>X</u>					
ii yes, describe	N/A										
Camaral Camaranta				مطاط اممييم		-			مما ما مام		
General Comments:				ound the p				•			
				be untou							s not
		been a problem. Site appears undisturbed except for changes to the									
				cape and						be	
		nimized b	y reha	abilitation <sub>l</sub>	olanned w	hen th	e landfill	is closed	l		
Recommendations:	_Co	ontinue mo	onitori	ng for con	tinued cor	mplian	ce with r	ecommer	ndations	for si	te
	pro	otection.	Arran	ge to have	fences re	emoved	d when la	andfill is c	closed.		
Attach additional do	ocumer	ntation, a	s war	ranted (p	hotos, pr	ofiles.	etc.)	Yes		No	<b>у</b> Х
If yes, describe:		,		(1)	, <b>.</b>	,	,				

Monitor Number:	BRP-08-13
Monitor Name(s):	Brenda R. Pace
Monitor Date(s):	May 5, 2008
Site Name/Number	
Reason for monito	<u> </u>
	the Test Area North Demolition Landfill
Findings:	Type 1         X         Type 2         Type 3         Type 4
Impact Agent(s):	Surrounding area has been disturbed by heavy equipment depositing
	construction waste from demolition and covering with dirt fill taken from the
	nearby embankment. Archaeological materials remain undamaged from
	these activities. Natural erosion does continue to impact the site.
Significance of Imp	
	Setting has been changed, but after revegetation it should return to
	approximate pre-Landfill appearance.
	impact extend into undisturbed areas? Yes No X
Work Halted?	Yes No X
If yes, describe: $\_$	N/A
Notifications:	None required under Type 1 finding
Primary contact(s):	
Date contacted:	N/A
Contact Method:	E-mail Phone Official correspondence, CCN#:
Cultural Materials o	
	In 2003, approximately 100 flakes were observed on top of and eroding down the
_	face of the embankment that marks the edge of old Lake Terreton (4,800 ft
_	elevation). Chipped stone tools associated with the flakes included broken and
_	unbroken dart points, scrapers, expedient flake tools, a fragmentary grinding stone,
_	and fire-cracked rock indicating the presence of a fire hearth. No new artifacts were
_	observed in 2008.
Cultural Materials of	
If yes, describe: $\ \ \_$	N/A
General Comments	- · · · · · · · · · · · · · · · · · · ·
	Artifacts appear to be untouched, indicating that unauthorized collection has not
	been a problem. Site appears undisturbed except for changes to the
	surrounding landscape and the setting of the site. These impacts will be
_	minimized by rehabilitation planned when the landfill is closed.
Recommendations	
	protection. Arrange to have fences removed when landfill is closed.
	ocumentation, as warranted (photos, profiles, etc.)  Yes  No X
If yes, describe:	

Monitor Number:	BRP-08-15							
Monitor Name(s):	Brenda R. Pace							
Monitor Date: `´	May 7, 2008							
Site Name/Number Reason for monito	ring: Routine surveillance of archaeological sites impacted by the Big Lost River							
	Trenches project							
Findings:	Type 1 X Type 2 Type 3 Type 4							
Impact Agent(s):	Heavy equipment originally. Recontoured areas with new plants sprouting appear to be attractive to local antelope and deer. Grazing by these native ungulates has increased and so have the associated impacts (trampling, sleeping areas, paths).							
Significance of Imp	Pact: None of the impacts from native ungulates are significant.							
Did disturbance or If yes, describe:	impact extend into undisturbed areas? Yes No X  Backfilling and revegetation carefully designed to prevent disturbance outside the original area of potential effect.							
Work Halted? If yes, describe: _	Yes							
Notifications:	Shoshone-Bannock Tribes							
Primary contact(s)								
Date contacted:	Multiple communications							
Contact Method:	E-mail X Phone X Official correspondence, CCN#:							
Cultural Materials of the second seco	observed? Yes X No Trenches were originally placed inside the boundaries of this prehistoric campsite.  Artifacts and cultural features occur throughout the area and were observed during the backfilling and revegetation operations in undisturbed areas around the trenches.							
Cultural Materials of the control of	collected? Yes No X N/A							
General Comments	Backfilling activities began on August 28 and finished on September 6, 2007, and revegetation followed on October 8-9, 2007. Project personnel were cooperative and concerned about cultural resource protection, minimizing impacts as much as possible at all times.							
Recommendations								
Attach additional o	documentation, as warranted (photos, profiles, etc.)  Yes  No  X							

Monitor Number:	BRP-08-17							
Monitor Name(s):	Brenda R. Pace							
Monitor Date: `´	May 7, 2008							
Site Name/Number Reason for monito								
	Trenches project							
Findings:	Type 1 X Type 2 Type 3 Type 4							
Impact Agent(s):	Heavy equipment originally. Recontoured areas with new plants sprouting appear to be attractive to local antelope and deer. Grazing by these native ungulates has increased and so have the associated impacts (trampling, sleeping areas, paths).							
Significance of Imp	None of the impacts from native ungulates are significant.							
Did disturbance or If yes, describe:	impact extend into undisturbed areas? Yes No X  Backfilling and revegetation carefully designed to prevent disturbance outside the original area of potential effect.							
Work Halted? If yes, describe: _	Yes         No         X           N/A         X							
Notifications:	Shoshone-Bannock Tribes							
Primary contact(s)								
Date contacted:	Multiple communications							
Contact Method:	E-mail X Phone X Official correspondence, CCN#:							
Cultural Materials of the control of	Trenches were originally placed inside the boundaries of this prehistoric lithic scatter.  Artifacts occur throughout the area and were observed during the backfilling and revegetation operations in undisturbed areas around the trenches.							
Cultural Materials of the control of	collected? Yes No X N/A							
General Comments	Backfilling activities began on August 28 and finished on September 6, 2007, and revegetation followed on October 8-9, 2007. Project personnel were cooperative and concerned about cultural resource protection, minimizing impacts as much as possible at all times.							
Recommendations								
Attach additional o	locumentation, as warranted (photos, profiles, etc.)  Yes  No  X							

Monitor Number:	BRP-	-08-18										
Monitor Name(s):												
Monitor Date:	May	7, 2008										
Site Name/Number Reason for monito	-	Routine		hort Sadd illance of a			sites im	pacted t	oy the	Big Los	t River	r
Findings:	Туре	1 X		Type 2		[	Type 3	}		Ty	pe 4	
Impact Agent(s):	- - -	appear ungula sleepin	to be a tes has g areas	nent origin attractive t increased s, paths).	o local ar d and so l	ntelope nave t	e and de he asso	eer. Gra	nzing b npacts	y these	native	
Significance of Imp	oact:	None c	of the in	npacts from	m native ı	ungula	ites are	significa	ant.			
Did disturbance or If yes, describe: _ _	Backfill	ing and	revege	ndisturbe tation care al effect.				Yes [ ent distu	rbance	No e outsid	X le the	
Work Halted? If yes, describe: _	N/A	Yes		No	Χ							
Notifications:	Sho	shone-E	Rannock	(Tribes								
Primary contact(s):		oline Sm		( TIIDOS								
Date contacted:		iple con		ations								
Contact Method:	E-m		< Pho		Official	corre	sponde	nce, CC	N#:			
Cultural Materials o	bserve Trenche Artifact	ed? es were s occur	Yes origina through	X Illy placed nout the ar	Inside the ea and w	<b>No</b> [ e bour rere ol	ndaries oserved	of this p during t	rehisto			er.
_	reveget	tation or	peration	s in undis	turbed ar	eas a	round th	e trench	nes.			
Cultural Materials o	collecte N/A	:d?	Yes		l	No [	X					
General Comments	an	nd reveg operativ	etation /e and o	es began followed o	on Octobe I about cu	er 8-9, ultural	2007.	Project	person	nel we	re	
December delle		•		as possib		mes.						
Recommendations	: <u>C</u>	ontinue	yearly r	nonitoring								
Attach additional d	ocume	ntation,	, as wa	rranted (p	ohotos, p	rofile	s, etc.)	Y	es		No [	Χ

Monitor Number:	_BRP-08-02
Monitor Name(s):	Brenda R. Pace, Hollie Gilbert
Monitor Date: \(\)	October 24, 2007 and May 20, 2008
Site Name/Number	: 10-JF-85
Reason for monito	
	Explosive Test Range
Findings:	Type 1 X Type 2 Type 3 Type 4
Impact Agent(s):	Power pole inspection, maintenance, and repair have caused ground
impact Agent(3).	disturbance around power poles and under the lines. Road construction has
	heavily impacted a linear path through site area. Road is heavily used now.
	No new impacts associated with the Large Scale Explosive Test Range,
0::6:	aside from road work, were noted.
Significance of Imp	
	maintenance have caused significant impact in portions of the site.
Did disturbance or If yes, describe:	impact extend into undisturbed areas?  No new disturbance noted outside the previously impacted zones around power  Yes No X
_	poles, under the lines, and in the road corridor. Heavy use and dump/fill of gravel to
<del>-</del>	maintain the road may have widened the road corridor.
Work Halted? If yes, describe:	Yes No X
ii yes, describe.	IV/A
Notifications:	None required under Type 1 finding
Primary contact(s)	
• • • • • • • • • • • • • • • • • • • •	N/A
Date contacted:	
Contact Method:	E-mail Phone Official correspondence, CCN#:
Cultural Materials (	observed? Yes X No IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
,00, 00001100.	artifacts and in 2006, a widely dispersed assemblage of primarily crypotocrystalline
-	debitage including approximately 20 flakes was observed and two expedient flake
-	tools were identified. No new artifacts observed in 2008.
-	tools were rue fullified. The flew artifacts observed in 2000.
Cultural Materials of the control of	collected? Yes No X N/A
0	Davidia and and maintained by a similar of invitant in a state of the
General Comments	
	this site. Continued maintenance and heavy use of the road may cause
	additional impacts, creating a wider corridor of disturbance. Poles 177 and 178
	are located in the site area
Recommendations	
	well as road and powerline maintenance/repair. Consider marking sensitive
	stretches and/or additional data collection along the sides of the road.
	<u> </u>
Attach additional d If yes, describe:	locumentation, as warranted (photos, profiles, etc.)  Yes  No  X

Monitor Number:	BRP.	BRP-08-03 Brenda R. Pace, Hollie Gilbert									
Monitor Name(s):	Bren										
Monitor Date:	Octo	tober 24, 2007 and May 20, 2008									
Site Name/Number:	:	10-JF	-84								
Reason for monitor	ring:	Routir	ne survei	llance o	f archaec	logical	sites in	vicinity of	f Natio	nal Se	curity
		Explos	sive Test	Range				•			
Findings:	Туре	1 X		Type 2	2		Type	3		Τv	pe 4
J		I									
Impact Agent(s):		Power	r pole ins	pection	, mainten	ance, a	and rep	air have c	aused	ground	t
,				•	·			e lines. R			
								ea. Road			
								ale Explos			
					were not		<u>g</u>				<u>.g.,</u>
Significance of Imp	act.						durina r	owerline	and ro	ad	
organicalise of map	,uot.							n portions			
		manne	CHAILOC I	ave out	acca oigii	moant	impaoti	n portions	OI tile	oito.	
Did disturbance or	imnac	t eyten	d into u	ndieturk	ned area	<b>-</b> ?		Yes	$\neg$	No	X
	-						elv imn	acted zone	 aro		
_								y use and			
					idened th				uump	illi oi g	iavei to
_	Паппа	iii uie i	oau may	nave w	idened in	e ioau	COITIGO	I .			
Work Halted?		Yes		No	X						
	NI/A	162		No							
If yes, describe: _	N/A										
Notifications:	Nor	o roqui	red unde	r Typo	1 finding						
			rea unae	пуре	i illiuliig						
Primary contact(s):											
Date contacted:	N/A		Disa		Off: -:-	1		001	14.		
Contact Method:	E-m	ıaıı _	Pho	ne	_ Oπicia	ı corre	espona	ence, CCI	N#:		
O. 14 Mataulala		10	V			NI -					
Cultural Materials o			Yes	LX.		No	Ш.			_	
_								n 2006 a f	ew fla	ikes an	d one
_	biface	fragmer	nt were r	oted. N	o new art	ifacts r	noted in	2008.			
Cultural Materials of		∍d?	Yes			No	X				
If yes, describe: _	N/A										
General Comments								ignificant i			
								of the roa			
	_a	dditiona	I impacts	s, creatir	ng a wide	r corric	dor of di	sturbance	. Pole	e 171 is	located
	<u>in</u>	the site	e area.								
Recommendations	: <u>C</u>	ontinue	monitori	ng for ir	npacts as	ssociat	ed with	the nearb	y Test	Range	as
	W	ell as ro	oad and	oowerlin	e mainte	nance/	repair.	Consider	markii	ng sens	sitive
	st	retches	and/or a	dditiona	al data co	llection	along	the sides	of the	road.	
Attach additional d	ocume	entation	n, as war	ranted	(photos.	profile	es, etc.	) Ye	s		No X
If yes, describe:					,	-			_		

Monitor Number:	BRP	BRP-08-04 Brenda R. Pace, Hollie Gilbert									
Monitor Name(s):	Bren										
Monitor Date:	Octo	ctober 24, 2007 and May 20, 2008									
Site Name/Number:	:	10-JF	<del>-</del> -83								
Reason for monitor	ring:	Routi	ine surve	llance o	of archaed	ologica	l sites	in vicinity	of Nati	onal Se	curity
		Explo	sive Tes	t Range	1						
Findings:	Туре	1 X		Type	2		Тур	e 3		T	ype 4
J									ı		
Impact Agent(s):		Powe	er pole ins	spection	ı, mainter	ance,	and re	pair have	e cause	d groun	d
,			rbance ar	<u> </u>	<u> </u>			<u> </u>			
			ily impact								
			ew impac								
			from roa				J -				·-g-,
Significance of Imp	act.		ew impac				during	nowerlin	ne and r	nad	
organicalise of map	, aot.		tenance h								
		IIIGIII	toriarioc i	iave oa	aoca oigi	mount	ппрас	t iii portic	<u> </u>	C Oilo.	
Did disturbance or	imnac	t aytar	nd into u	ndistur	had araa	s?		Yes		No	X
	-		rbance no				elv im		nnes arc		
_			the lines,								
			road may						ila darriş	J/1111 OI (	jiavei to
_	Паппа	111 1116	ioau iliay	nave w	idened ti	e ioau	COITIU	01.			
Work Halted?		Yes		Na	<b>X</b>						
	NI/A	162		No	,						
If yes, describe: _	N/A										
Notifications:	Nor	o rogi	uired unde	or Typo	1 finding						
			illed unde	rype	1 Illiuling						
Primary contact(s):											
Date contacted:	N/A		Di		Off: -:-	1		-1			
Contact Method:	E-m	ıaıı [	Pho	ne		ıı corre	espon	dence, C	,CN#:		
O. 14 Mataulala		10	V	V		NI -					
Cultural Materials o			Yes	X		No					
			ite was d							ew flak	es and
_	one bit	ace tra	agment w	ere note	ed. No ne	w artita	acts no	ted in 20	08.		
Cultural Materials of		∍d?	Yes			No	X				
If yes, describe: _	N/A										
General Comments			ne and ro								
			Continu								
	_a	ddition	al impact	s, creati	ng a wide	er corrid	dor of	disturbar	ice. Pole	e 170 is	located
	_in	the sit	te area.								
Recommendations	: <u>C</u>	ontinu	e monitor	ing for i	mpacts a	ssociat	ed wit	h the nea	arby Tes	t Rang	e as
	W	ell as r	oad and	powerlin	ne mainte	nance/	repair.	Consid	er mark	ing sen	sitive
	st	retche	s and/or a	addition	al data co	llection	n along	the side	es of the	road.	
							`	-			
Attach additional d	ocume	ntatio	n, as wa	rranted	(photos	profile	es, etc	c.)	Yes		No X
If yes, describe:			•			•		,	L		

Monitor Number:	BRP-0	8-05							
Monitor Name(s):	Brenda	Brenda R. Pace, Hollie Gilbert October 24, 2007 and May 20, 2008							
Monitor Date:									
		·	<u> </u>						
Site Name/Number	r:	10-JF-80							
Reason for monito			eillance of archae	eological sites	in vicinity of	National Security			
		Explosive Tes		<u> </u>					
Findings:	Type 1	I X	Type 2	Tvr	pe 3	Type 4			
<b>g</b>	- 7		- 710			- 71			
Impact Agent(s):	F	Power pole in	nspection, mainte	enance, and r	epair have ca	used around			
J. (-)						oad construction ha	as		
						s heavily used now			
			cts associated w			-	•		
			ad work, were no		Coale Explos	ivo root riango,			
Significance of Imp			cts noted. Past i		g nowerline a	nd road			
organicanoc or maj			have caused sig						
	<u>_'</u>	Tialiticitation	Tiave caused sig	milicant impa	ct iii portions	or tric site.			
Did disturbance or	· imnact «	extend into I	ındisturhad ara	as?	Yes	No X	1		
If yes, describe:	-		noted outside the			_	_		
ii yes, describe.						dump/fill of gravel to			
-			y have widened t			Juliphili of graveric	<i></i>		
-	mamam	ine road ma	y nave widened	ine road com	uoi.				
Mark Haltada	,	V00	No V	1					
Work Halted?		Yes	No X	_					
If yes, describe:	N/A								
NI - (161 (1	Mana		la T a 4 £ ali	_					
Notifications:		required und	ler Type 1 findinເ	3					
Primary contact(s)									
Date contacted:	N/A		0.55				_		
Contact Method:	E-ma	il Pho	one Offic	ial correspor	ndence, CCN	i#:			
				$\Box$					
Cultural Materials				No					
If yes, describe:			described as a lit						
-						two projectile point			
_	fragment	ts were noted	d. No new artifac	ts noted in 20	008.				
Cultural Materials	collected	l? Yes		No X					
If yes, describe:	N/A								
General Comments	s: Pov	verline and ro	oad maintenance	have caused	d significant ir	npacts to portions o	of_		
	this	site. Continu	ued maintenance	e and heavy ι	ise of the roa	d may cause			
	add	litional impac	ts, creating a wic	ler corridor of	disturbance.	Pole 167 is located	<del>d</del>		
		ne site area.	<u> </u>						
Recommendations	: Cor	ntinue monito	ring for impacts	associated wi	ith the nearby	Test Range as			
						marking sensitive			
			,			J : 2112111 2			
	stre	tches and/or	additional data of	collection alor	na the sides o	f the road			
	stre	tches and/or	additional data of	collection alor	ng the sides o	f the road.			
Attach additional c									

Monitor Number:								
Monitor Name(s):	Brenda R. Pace, Hollie Gilbert							
Monitor Date:	October 24, 2007 and May 20, 2008							
Site Name/Number	: 10-JF-78							
Reason for monito								
	Explosive Test Range							
Findings:	Type 1 X Type 2 Type 3 Type 4							
Impact Agent(s):	Power pole inspection, maintenance, and repair have caused ground							
	disturbance around power poles and under the lines. Road construction has							
	heavily impacted a linear path through site area. Road is heavily used now.							
	No new impacts associated with the Large Scale Explosive Test Range,							
	aside from road work, were noted.							
Significance of Imp	No new impacts noted. Past impacts during powerline and road							
	maintenance have caused significant impact in portions of the site.							
	impact extend into undisturbed areas? Yes No X							
If yes, describe:	No new disturbance noted outside the previously impacted zones around power							
_	poles, under the lines, and in the road corridor. Heavy use and dump/fill of gravel to							
_	maintain the road may have widened the road corridor.							
Work Halted?	Yes No X							
	Yes							
If yes, describe:	IVA							
Notifications:	None required under Type 1 finding							
Primary contact(s)	: N/A							
Date contacted:	N/A							
Contact Method:	E-mail Phone Official correspondence, CCN#:							
Cultural Matariala	observed? Ves V							
Cultural Materials								
If yes, describe:	In 1984, the site was described as a thin scatter of flakes with one possible ground							
-	stone fragment. In 2006, a similar assemblage of debitage was noted including							
-	approximately 50 total flakes. In addition, the following tools were inventoried: one fragmentary large Corner-notched point, a pressure-flaked biface fragment, a small							
-								
-	eep end scraper, a spokeshave, and a retouched flake. The ground stone artifact as not re-identified. No new artifacts noted in 2008.							
_	was not re-identified. No new artifacts noted in 2000.							
Cultural Materials	collected? Yes No X							
If yes, describe:	N/A							
General Comments	s: Powerline and road maintenance have caused significant impacts to portions of							
	this site. Continued maintenance and heavy use of the road may cause							
	additional impacts, creating a wider corridor of disturbance. Pole 164 is located							
	in the site area.							
Recommendations								
	well as road and powerline maintenance/repair. Consider marking sensitive							
	stretches and/or additional data collection along the sides of the road.							
Attach additional of	locumentation, as warranted (photos, profiles, etc.)  Yes  No X							

Monitor Number:	BRP-08-07								
Monitor Name(s):	Brenda R. Pace, Hollie Gilbert								
Monitor Date: `´	October 24, 2007 and May 20, 2008								
Site Name/Number	r: 10-JF-77								
Reason for monito	ring: Routine surveillance of archaeological sites in vicinity of National Security								
	Explosive Test Range								
Findings:	Type 1 X Type 2 Type 3 Type 4								
-									
Impact Agent(s):	Power pole inspection, maintenance, and repair have caused ground								
	disturbance around power poles and under the lines. Road construction has								
	heavily impacted a linear path through site area. Road is heavily used now.								
	No new impacts associated with the Large Scale Explosive Test Range,								
	aside from road work, were noted.								
Significance of Im	pact: No new impacts noted. Past impacts during powerline and road								
	maintenance have caused significant impact in portions of the site.								
Did disturbance or	impact extend into undisturbed areas? Yes No X								
If yes, describe:	No new disturbance noted outside the previously impacted zones around power								
	poles, under the lines, and in the road corridor. Heavy use and dump/fill of gravel to								
	maintain the road may have widened the road corridor.								
Work Halted?	Yes No X								
If yes, describe:	N/A								
Notifications:	None required under Type 1 finding								
Primary contact(s)									
Date contacted:	N/A								
Contact Method:	E-mail Phone Official correspondence, CCN#:								
Cultural Materials	observed? Yes X No								
If yes, describe:	In 1984, the site was described as a small, thin lithic scatter. In 2006, approximately								
_	50 obsidian flakes and four stone tools were documented. The tool inventory								
	included one fragmentary Elko Corner-notched point, two pressure-flaked biface								
_	fragments and possible projectile points, and one utilized flake. No new artifacts								
_	noted in 2008.								
Cultural Materials	collected? Yes No X								
If yes, describe:	N/A								
General Comment									
	this site. Continued maintenance and heavy use of the road may cause								
	additional impacts, creating a wider corridor of disturbance.								
Recommendations									
	well as road and powerline maintenance/repair. Consider marking sensitive								
	stretches and/or additional data collection along the sides of the road.								
Attach additional c	documentation, as warranted (photos, profiles, etc.)  Yes No X								
If yes, describe:	documentation, as warranted (photos, profiles, etc.)  Yes  No X								

Monitor Number:	BRP-0	08-08							
Monitor Name(s):	Brend	Brenda R. Pace, Hollie Gilbert October 24, 2007 and May 20, 2008							
Monitor Date: \( '									
		·	<u> </u>						
Site Name/Number	r:	10-BM-123							
Reason for monito	_	Routine surve	eillance of archae	eological sites	in vicinity of	National Securi	tv		
		Explosive Tes		<u> </u>					
	_								
Findings:	Туре	1 X	Type 2	Tvr	e 3	Туре	4		
·go.	- 7   0 - 0	-   / \	. 7   -	71		. , , , ,	- 1		
Impact Agent(s):		Power pole in	nspection, mainte	nance, and r	epair have ca	used around			
			round power pol				n has		
			cted a linear path						
	_		cts associated w						
			ad work, were no		Codio Explos	ivo root rango	,		
Significance of Imp			cts noted. Past i		n nowerline a	nd road			
organicance of maj			have caused sig						
	_	maintenance	nave caused sig	milicant impat	or in portions	or the site.			
Did disturbance or	impact	ovtand into I	indisturbed are	ac?	Yes	No	Χ		
lf yes, describe:	-								
ii yes, describe.			noted outside the , and in the road						
-						aump/iiii oi grav	ei io		
-	maintair	i trie road ma	y have widened t	ne road com	JOI.				
W		V	N. V	1					
Work Halted?		Yes	No X	]					
If yes, describe:	N/A								
NI - (262 (2	NI		I T 4 £	_					
Notifications:		e requirea una	ler Type 1 finding	)					
Primary contact(s)									
Date contacted:	N/A								
Contact Method:	E-ma	ail Pho	one Offici	al correspor	idence, CCN	l#:			
	_			🖂					
Cultural Materials				No					
If yes, describe:			described as a v						
_			l two biface fragn			nmodified flake	was		
_	observe	ed in the site a	area. No new art	tifacts noted i	n 2008.				
Cultural Materials	collected	d? Yes	;	No X					
If yes, describe:	N/A								
General Comments	s: Po	werline and ro	oad maintenance	have caused	l significant ir	npacts to portio	ns of		
	this	s site. Contini	ued maintenance	and heavy u	se of the roa	d may cause			
	ado	ditional impac	ts, creating a wid	ler corridor of	disturbance.	Pole 143 is loc	cated		
		the site area.							
Recommendations			ring for impacts	associated wi	th the nearby	Test Range as			
			powerline maint						
			additional data of						
		בוטווכס מווטועיי	auditional data t		เน แบะ อเนตอ น	יו נווס וטמט.			
		etories ariu/or	additional data c	onconon alor	ig the sides o	i tile ioau.			
Attach additional c									

Monitor Number:	_BRP-08-09
Monitor Name(s):	Brenda R. Pace, Hollie Gilbert
Monitor Date: \(\)	October 24, 2007 and May 20, 2008
Site Name/Number	: 10-BM-124
Reason for monito	
	Explosive Test Range
Findings:	Type 1 X Type 2 Type 3 Type 4
Impact Agent(s):	Power pole inspection, maintenance, and repair have caused ground
impact Agent(3).	disturbance around power poles and under the lines. Road construction has
	heavily impacted a linear path through site area. Road is heavily used now.
	No new impacts associated with the Large Scale Explosive Test Range,
0::6:	aside from road work, were noted.
Significance of Imp	
	maintenance have caused significant impact in portions of the site.
Did disturbance or If yes, describe:	impact extend into undisturbed areas?  No new disturbance noted outside the previously impacted zones around power
<u>-</u>	poles, under the lines, and in the road corridor. Heavy use and dump/fill of gravel to
_	maintain the road may have widened the road corridor.
Work Halted?	Yes No X
If yes, describe:	N/A
Notifications:	None required under Type 1 finding
Primary contact(s)	: N/A
Date contacted:	N/A
Contact Method:	E-mail Phone Official correspondence, CCN#:
Cultural Materials	observed? Yes X No
If yes, describe:	In 1984, the site was described as a small lithic scatter with approximately 50
yes, acsorise	artifacts, including four biface fragments and three expedient flake tools. In 2006,
-	only one unmodified flake was observed in the site area. No new artifacts noted in
-	2008.
-	2000.
Cultural Materials of the control of	collected? Yes No X N/A
0	Davidia and and maintained by a similar of invitant in a state of the
General Comments	
	this site. Continued maintenance and heavy use of the road may cause
	additional impacts, creating a wider corridor of disturbance. Pole 143 is located
	in the site area.
Recommendations	
	well as road and powerline maintenance/repair. Consider marking sensitive
	stretches and/or additional data collection along the sides of the road.
Attach additional d If yes, describe:	locumentation, as warranted (photos, profiles, etc.)  Yes  No  X

Monitor Number:	BRP-08-10									
Monitor Name(s):	Bren	Brenda R. Pace, Hollie Gilbert								
Monitor Date:	Octo	ber 24	1, 2007 an	d May 2	0, 2008					
Site Name/Number	/= =	BEA	-06-20-07							
Reason for monito	ring:	Rout	ine survei	llance o	f archaec	logical	l sites in	vicinity of Nat	ional Se	ecurity
		Expl	osive Tes	Range						
Findings:	Туре	1 >	ζ	Type 2	2		Type	3	T	ype 4
J										,
Impact Agent(s):		Pow	er pole ins	spection	, mainten	ance,	and repa	air have cause	d groun	nd
,		Power pole inspection, maintenance, and repair have caused ground disturbance around power poles and under the lines. Road construction has								
								ea. Road is he		
								ale Explosive		
			e from roa				J			
Significance of Imp	pact:						durina r	owerline and	road	
o.gp								n portions of the		
		- man	1011011001	iavo oac	ioou oigii	mount	пправет	ii portiono or ti	10 01101	
Did disturbance or	impac	t exte	nd into u	ndisturk	ned areas	<b>s</b> ?		Yes	No	X
If yes, describe:	-						sly imna	acted zones ar		
yes, acsorise										
_		s, under the lines, and in the road corridor. Heavy use and dump/fill of gravel to nain the road may have widened the road corridor.								
_	Паппа	iii uic	Toau may	nave w	ueneu in	e roau	COITIGO			
Work Halted?		Yes		No	X					
If yes, describe:	N/A	163		NO						
ii yes, describe	IN/A									
Notifications:	Nor	ומפז פנ	uired unde	r Type	1 finding					
Primary contact(s):			unca anac	лтурс	i illialing					
Date contacted:	N/A									
Contact Method:	E-m		Pho	<b>no</b>	Officio	Loored	onond	ence, CCN#:	Т	
Contact Method.	E-11	IaII	F110	ne	Unicia	COITE	sponde	ence, CCN#.		
Cultural Materials	obcor.	043	Yes	X		No				
				1 1	!!				- I 40 fl	
If yes, describe: _								of approximate		akes and
_	a single	e nonc	diagnostic	biface f	ragment.	No ne	ew artifa	cts noted in 20	)08.	
0 1/ 134 / 11										
Cultural Materials		€ <b>d</b> ?	Yes			No	X			
If yes, describe: _	N/A									
	_									
General Comments								gnificant impa		
								of the road m		
				s, creatir	ng a wide	r corrid	dor of di	sturbance. Po	<u>le 152 i</u>	s located_
			ite area.							
Recommendations								the nearby Te		
	W	ell as	road and	powerlin	e mainte	nance/	repair.	Consider mark	king sen	ısitive
	st	retche	es and/or a	additiona	al data co	llection	n along t	the sides of the	e road.	
Attach additional d	locume	ntatio	n, as wa	ranted	(photos,	profile	es, etc.)	Yes		No X
If yes, describe:							-			

Monitor Number:	BRP-08-20
Monitor Name(s):	Brenda R. Pace
Monitor Date: \ \	May 20, 2008
Site Name/Number:	10-JF-88/Hellofasite
Reason for monitor	
	Explosive Test Range
Findings:	Type 1 X Type 2 Type 3 Type 4
<b>.</b>	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Impact Agent(s):	Power pole inspection, maintenance, and repair have caused ground
J	disturbance around power poles within the boundaries of the site. No new
	impacts associated with the Large Scale Explosive Test Range were noted.
Significance of Imp	·
organicanos or imp	caused significant impact.
	- Cadoca significant impact.
Did disturbance or	impact extend into undisturbed areas? Yes No X
	Disturbed areas have been impacted by previous powerline maintenance/repair
_	activities. No new disturbance noted outside these previously impacted zones.
_	activities. No new disturbance noted outside these previously impacted zones.
Work Halted?	Yes No X
If yes, describe: _	N/A
Natifications	None required under Type 1 finding
Notifications:	None required under Type 1 finding
Primary contact(s):	
Date contacted:	N/A
Contact Method:	E-mail Phone Official correspondence, CCN#:
Oultonal Materials s	h
Cultural Materials o	
	In 1984 the site was named "Hellofasite" for the dense, diverse scatter of artifacts
	and unique rock walls recorded there. In 2006, 2007 and 2008, the original
	observations were confirmed and flakes were observed around a gravel pad
	and in sandy soils surrounding a power pole in the western end of the site. The
_	remainder and the majority of the site to the east remains apparently undisturbed.
	u
Cultural Materials o	
If yes, describe: $\_$	N/A
General Comments	
	explosive testing and ground motion data collected by the project confirms this.
	Surface artifacts appear undisturbed and the site is not getting heavy visitation.
	Powerline repair has cause extensive soil disturbance but appears to be
	restricted to areas previously impacted adjacent to the poles.
Recommendations:	Continue monitoring for impacts associated with the nearby Test Range as
	well as powerline maintenance/repair.
Attach additional d	ocumentation, as warranted (photos, profiles, etc.)  Yes  No X
If yes, describe:	

Monitor Number:	BRP-08-23								
Monitor Name(s):	Brenda R. Pace, Hollie Gilbert								
Monitor Date(s):	July 11, 2008								
` '									
Site Name/Number:	10-BT-1053								
Reason for monitori									
Eindingo	Type 1 Type 2 X Type 3 Type 4								
Findings:	Type 1 Type 2 X Type 3 Type 4								
Immant Ament(a)	Fire fighting effects including effreed vehicle use steering everyation of fire								
Impact Agent(s):	Fire-fighting efforts including offroad vehicle use, staging, excavation of fire								
01 101 01	breaks, and post-fire mapping and evaluation.								
Significance of Impa									
	are turned up in the soil ricks. Impacts are adverse in the fire break, but a								
	large portion of the site remains undisturbed. Future impacts may result								
	from rehabilitation of the fire breaks and natural soil erosion.								
Did disturbance or i	mpact extend into undisturbed areas? Yes X No								
	Prior to the fire, this area was undeveloped and impacted only by the powerline and								
<u> </u>	associated access road.								
Work Halted?	Yes No X								
	V/A								
ii yes, describei	V/A								
Notifications:	None required under Type 1 finding								
	None required under Type 1 finding								
Primary contact(s):	N/A								
Date contacted:	N/A								
Contact Method:	E-mail Phone Official correspondence, CCN#:								
Cultural Materials of									
If yes, describe:	5, this site was described as a small scatter of approximately 20 flakes and								
(	one utilized flake. In 2008 the surface inventory appeared unchanged, although the								
- 6	ct inventory was expanded to include approximately 35 flakes and a biface								
f	nent. This was probably due to removal of the local vegetation from the fire.								
<b>Cultural Materials co</b>	ollected? Yes No X								
If yes, describe:	N/A								
	, <del>''' '</del>								
<b>General Comments:</b>	The site appears similar to that reported in 1985, with a few more artifacts								
Contrar Commonto.	showing up after the burn. Fire breaks cut through the site area and artifacts								
	are exposed in them, including a biface fragment. Disturbance is limited to the								
Dagamana  -4!	narrow fire breaks and much of the site remains undisturbed.								
Recommendations:	Avoid additional impacts by leaving soil ricks in place or have them leveled by								
	hand. Conduct cultural monitoring of any additional rehabilitation activities.								
Attach additional do	ocumentation, as warranted (photos, profiles, etc.)  Yes   X   No								
	(priotos, promos, oto.)								

Monitor Number:	BRP-08-24									
Monitor Name(s):	Brenda R. Pace, Hollie Gilbert									
Monitor Date(s):		July 11, 2008								
( )										
Site Name/Number	r:	10-BT-	1062							
Reason for monito	_			ssment fo	llowina J	ulv 9 ı	range fire			
						<i>y</i>	g c			
	-									
Findings:	Type	1		Type 2	X		Type 3		-	Type 4
i iiidiiigo.	Туро			. ypo z			Туроо			1 )
Impact Agent(s):		Fire-fial	htina et	forts inclu	ıdina offr	oad ve	ehicle use	staging e	xcavati	on of fire
	-	Fire-fighting efforts including offroad vehicle use, staging, excavation of fire breaks, and post-fire mapping and evaluation.								
Significance of Imp	nact· -							ifact scatte	r A few	v small
organication of maj	puot	Single width fire break passes along edge of artifact scatter. A few small pressure flakes are turned up in the soil ricks. Impacts are adverse in the fire								
	-							disturbed.		
	-							and natural		
	-	may res	Suit II OI	II Terrabili	lalion or	uie iiie	e Dieaks d	anu naturai	SOII EIO	SIUII.
Did diaturbanes er	. :	ovtond	into	n diatuuba	. d araaa	2	v	/aa 🔻	NI.	
Did disturbance or	-							es X	No	
If yes, describe:					naevelop	ed and	a impacte	d only by th	ie powe	riine and
_	associa	ited acce	ess roa	a.						
Work Halted?		Yes		No	X					
If yes, describe:	N/A									
Notifications:		e require	ed unde	er Type 1	finding					
Primary contact(s)										
Date contacted:	N/A									
Contact Method:	E-m	ail	_ Pho	ne	Official	corre	sponden	ce, CCN#:		
Cultural Materials			Yes	X		No				
If yes, describe:	In 1985, this site was described as a small scatter of approximately 20 flakes and									
_	one scraper. In 2008 the surface inventory was significantly expanded to more than									
_	100 flakes, diagnostic Middle Prehistoric dart points, scrapers, and biface fragments.									
	Surface	visibility	y was c	bviously	hampere	d by d	lense veg	etation duri	ng the	original.
	recordir	ng.								
<b>Cultural Materials</b>	collecte	d?	Yes			No	X			
If yes, describe:	N/A									
_										
General Comments	s: Th	ie site ar	opears	similar to	that repo	orted i	n 1985, w	ith many m	ore arti	facts
			-					the outer p		
	site and two flakes are exposed in the disturbed area. Disturbance is limited to the narrow fire break and much of the site remains undisturbed.									
Recommendations								ce or have		veled by
								al rehabilitat		
		001		a.ta.ai iil		or arry	additionit	ronabilita		1.000.
Attach additional o	docume	ntation	as wa	rranted (i	nhotos i	orofile	as etc l	Yes	X	No
If yes, describe:		raphs tal		i anicu (	J.10103,	J. J. 1116	, o.c.,	163		.10
ii yee, aceciine.	Priorogi	aprio iai	CII							

Monitor Number: BRP-08-25	BRP-08-25 Brenda R. Pace, John Koudelka					
Monitor Name(s): Brenda R.						
Monitor Date(s): July 28, 20	08					
Reason for monitoring: Con	BT-571  firmation of site location in relation to proposed new project activities at nfiltration Basin Area					
Findings: Type 1	Type 2 Type 3 Type 4					
Significance of Impact: Vehi	t offroad vehicle travel along the grazing boundary fence cle travel along the fence is sporadic and has not created a formal road. remains largely undisturbed.					
Did disturbance or impact exte	nd into undisturbed areas? Yes No X					
Work Halted? Yes If yes, describe: N/A	No X					
Notifications: None req	uired under Type 1 finding					
Primary contact(s): N/A	and drider Type Timumg					
Date contacted: N/A						
Contact Method: E-mail	Phone Official correspondence, CCN#:					
, =						
Cultural Materials observed?	Yes X No					
	site was described as a light lithic scatter with approximately 60 flakes,					
	gular biface, and a bison horn sheath. In 2008, fewer artifacts were					
observed an	d chipped stone or organic artifacts were seen.					
Cultural Materials collected?	Yes No X					
If yes, describe: N/A						
Comment Comments. The site						
	e appears similar to that reported in 1985, though fewer artifacts were					
	in 2008. Light disturbance from vehicle use along the grazing boundary noted, but not significant. Activities associated with the Infiltration					
	roject are well to the south and should have no effect on the site.					
	this site in periodic monitoring of activities at the Infiltration Basin.					
necommendations. molude	and the in periodic monitoring of activities at the militration dasin.					
Attach additional documentation	on, as warranted (photos, profiles, etc.)					
	nates obtained					

Monitor Number:	BRP-08-26						
Monitor Name(s):	Brenda R. Pace, John Koudelka						
Monitor Date(s):	July 28, 2008						
Site Name/Number Reason for monito							
Findings:	Type 1 X Type 2 Type 3 Type 4						
Impact Agent(s): Significance of Imp	No impacts N/A						
Did disturbance or If yes, describe:	impact extend into undisturbed areas? Yes X No X						
Work Halted? If yes, describe: _	Yes No X						
Notifications:	None required under Type 1 finding						
Primary contact(s):							
Date contacted:	N/A						
Contact Method:	E-mail Phone Official correspondence, CCN#:						
	In 1985, this site was described as a thin scatter of approximately 20 flakes with no chipped stone tools. In 2008, fewer artifacts were observed.						
Cultural Materials of the control of	collected? Yes No X						
General Comments	s: The site appears similar to that reported in 1985, though fewer artifacts were						
	spotted in 2008. No impacts were apparent. Activities associated with the						
	Infiltration Basin project are well to the south and should have no effect on the						
	site.						
Recommendations	: Include this site in periodic monitoring of activities at the Infiltration Basin.						
	· •						
Attach additional d	locumentation, as warranted (photos, profiles, etc.)  Yes X  No						
If yes, describe: _	GPS coordinates obtained						

Monitor Number:	BRP-08-27					
Monitor Name(s):	Brenda R. Pace, John Koudelka					
Monitor Date(s):	July 28, 2008					
Site Name/Number Reason for monito	:10-BT-1087					
Findings:	Type 1 X Type 2 Type 3 Type 4					
Impact Agent(s): Significance of Im	No impacts N/A					
Did disturbance or If yes, describe:	impact extend into undisturbed areas? Yes X No X					
Work Halted? If yes, describe:	Yes					
Notifications:	None required under Type 1 finding					
Primary contact(s)						
Date contacted:	N/A					
Contact Method:	E-mail Phone Official correspondence, CCN#:					
Cultural Materials If yes, describe:	In 1985, this site was described as a scatter of approximately 20 flakes, nondiagnostic projectile points and biface fragments. In 2008, only a few flakes were observed.					
Cultural Materials If yes, describe:	collected? Yes No X N/A					
General Comment						
	spotted in 2008. No impacts were apparent. Activities associated with the Infiltration Basin project are well to the south and should have no effect on the					
	site.					
Recommendations	: Include this site in periodic monitoring of activities at the Infiltration Basin.					
Attach additional o	locumentation, as warranted (photos, profiles, etc.)  Yes X  No  GPS coordinates obtained					

Monitor Number:	BRP-08-28
Monitor Name(s):	Brenda R. Pace, John Koudelka
Monitor Date(s):	July 28, 2008
Site Name/Number: Reason for monitorii	10-BT-1075 Confirmation of site location in relation to proposed new project activities at the Infiltration Basin Area
Findings:	Type 1 X Type 2 Type 3 Type 4
Impact Agent(s): Significance of Impa	No impacts N/A
Did disturbance or ir If yes, describe:	npact extend into undisturbed areas? Yes X No X
Work Halted? If yes, describe: N	Yes No X
Notifications: Primary contact(s): Date contacted:	None required under Type 1 finding  N/A  N/A
Contact Method:	E-mail Phone Official correspondence, CCN#:
	No No 1985, this site was described as a thin scatter of approximately 50 flakes, one of thich exhibited light use wear. In 2008, only a few flakes were observed.
Cultural Materials co	Illected? Yes No X
General Comments:	The site appears similar to that reported in 1985, though fewer artifacts were spotted in 2008. No impacts were apparent. Activities associated with the Infiltration Basin project are well to the south and should have no effect on the site.
Recommendations:	Include this site in periodic monitoring of activities at the Infiltration Basin.
	cumentation, as warranted (photos, profiles, etc.)  Yes X  No  PS coordinates obtained

Monitor Number:	BRP-08-29			
Monitor Name(s):	Brenda R. Pace, John Koudelka			
Monitor Date(s):	July 28, 2008			
Site Name/Number: Reason for monitor				
Findings:	Type 1         X         Type 2         Type 3         Type 4			
Impact Agent(s): Significance of Imp	No impacts N/A			
Did disturbance or If yes, describe:	impact extend into undisturbed areas? Yes X No X			
Work Halted? If yes, describe:	Yes No X			
Notifications:	None required under Type 1 finding			
Primary contact(s):				
Date contacted:	N/A			
Contact Method:	E-mail Phone Official correspondence, CCN#:			
• · · =	In 1985, this site was described as a dense scatter of hundreds of flakes, a nondiagnostic projectile point fragment and several biface fragments. In 2008, a			
_	similar assemblage was observed.			
Cultural Materials of the control of	collected? Yes No X			
General Comments	The site appears similar to that reported in 1985. No impacts were apparent.  Activities associated with the Infiltration Basin project are well to the south and			
	should have no effect on the site.			
Recommendations	-			
	ocumentation, as warranted (photos, profiles, etc.)  Yes  X  No  GPS coordinates obtained			

Monitor Number:	BRP-08-31							
Monitor Name(s):	Brenda R. Pace, Hollie Gilbert							
Monitor Date(s):	September 16, 2008							
Site Name/Number Reason for monito	:10-BT-1438							
Findings:	Type 1 X Type 2 Type 3 Type 4							
Impact Agent(s): Significance of Imp	No impacts N/A							
Did disturbance or If yes, describe:	impact extend into undisturbed areas? Yes X No X							
Work Halted? If yes, describe:	Yes							
Notifications:	None required under Type 1 finding							
Primary contact(s):	· · · · · · · · · · · · · · · · · · ·							
Date contacted:	N/A							
Contact Method:	E-mail Phone Official correspondence, CCN#:							
oomaat matrica.	2 maii 1 mono							
Cultural Materials of If yes, describe:	In 1988, this site was described as a dense scatter of flakes with a large inventory of chipped stone tools including a large side-notched dart point, seven scrapers, eight							
_	face fragments, and several fragments of ground stone. In 2008, a similar							
_	assemblage was observed.							
Cultural Materials of the control of	collected? Yes No X							
General Comments	The site appears similar to that reported in 1988. No impacts were apparent.  Activities associated with the NRF Sewer Upgrade and new monitoring wells as							
	currently planned should have no effect on the site.							
Recommendations								
ixeconninentialions	of NRF. Touch base with NRF environmental personnel in summer of 2009 to							
	make sure plans for new wells have not changed and site remains protected.							
Attack additional d	legumentation of warrented (photog profiles etc.)							
Attach additional d If yes, describe:	locumentation, as warranted (photos, profiles, etc.)  Yes X  No  GPS coordinates obtained							

Monitor Number:	BRP-08-32							
Monitor Name(s):	Brenda R. Pace, Hollie Gilbert							
Monitor Date(s):	September 16, 2008							
Site Name/Number Reason for monito								
Findings:	Type 1 X Type 2 Type 3 Type 4							
Impact Agent(s): Significance of Imp	No impacts N/A							
Did disturbance or If yes, describe: _	impact extend into undisturbed areas? Yes X No X							
Work Halted? If yes, describe: _	Yes							
Notifications:	None required under Type 1 finding							
Primary contact(s):	: <u>N/A</u>							
Date contacted:	N/A							
Contact Method:	E-mail Phone Official correspondence, CCN#:							
Cultural Materials of the control of	bserved? Yes X No In 1988, this site was described as a dispersed scatter of approximately 80 flakes 9 along with one small corner-notched arrow point, a drill, three biface fragments, and							
_	herds of Intermountain Ware pottery. A pronounced ridge line on the edge of the							
_	rtifact scatter also yielded a possible hunting blind. In 2008, a similar artifact							
_	assemblage was observed but the hunting blind was not re-identified.							
Cultural Materials of the control of								
General Comments	The site appears similar to that reported in 1988. No impacts were apparent.  Activities associated with the NRF Sewer Upgrade and new monitoring wells as							
Recommendations	currently planned should have no effect on the site.							
Attach additional d lf yes, describe: _	ocumentation, as warranted (photos, profiles, etc.)  GPS coordinates obtained							

Monitor Number:	BRP-08-34
Monitor Name(s):	Brenda R. Pace, Hollie Gilbert
Monitor Date(s):	September 23, 2008
` ,	
Site Name/Number	: 10-BT-1209
Reason for monito	ring: Confirmation of site location in relation to proposed project activities along
	powerlines near the Power Burst Facility
Findings:	Type 1 X Type 2 Type 3 Type 4
i iliuliigo.	13po 1   X   13po 4   13po 4
Impact Agent(s):	During original recording, some disturbance was noted as a result of the
impact rigoritio).	powerline road, which runs through the site area.
Significance of Imp	
orginicance or mit	7dCL
D!-  - !-4	in a set out and into an elictrophy of a second
	impact extend into undisturbed areas? Yes $X$ No $X$
If yes, describe: $\_$	
Work Halted?	Yes No X
If yes, describe: $\_$	N/A
Notifications:	None required under Type 1 finding
Primary contact(s)	: N/A
Date contacted:	N/A
Contact Method:	E-mail Phone Official correspondence, CCN#:
Cultural Materials	observed? Yes X No
If yes, describe:	In 1985, this site was described as a contained scatter of more than 200 flakes
	along with one small corner-notched arrow point. A similar assemblage of artifacts
-	was observed in 2008.
-	was observed in 2000.
Cultural Materials o	collected? Yes No X
If yes, describe: $\_$	N/A
0	The site common similar to the transmitted in 1000. No immediate common to
General Comments	
	aside from the road and powerline activities noted during the original recording.
	Activities associated with the powerline testing should have no effect on the site
	if they are restricted to the existing road.
Recommendations	: Include this site in periodic monitoring of activities in the PBF area. Mark
	sensitive stretch of road through site area with flagging tape to prevent offroad
	incursions during fiber optic installation on existing poles.
Attach additional d	ocumentation, as warranted (photos, profiles, etc.)  Yes X  No
If yes, describe:	GPS coordinates obtained

## A: Historic Archaeological Sites

Monitor Number:	BRP-0	08-16										
Monitor Name(s):	Brend	a R. P	ace									
Monitor Date: \( \)	May 7	, 2008										
Site Name/Number Reason for monito	ring:	Routin		owell Sta illance of ect						e Big Lo	st Rive	er
Findings:	Type	1 X	]	Type 2			Туре	3	]	٦	Гуре 4	
Impact Agent(s):	_ _ _	appea ungula sleepii	r to be a ites has ng areas	ent originattractive increases, paths).	to local a d and so	ntelo <sub>l</sub> have	pe and the as	deer. C sociated	Grazing d impac	by thes	e nativ	
Significance of Imp	oact:	None (	of the im	pacts fro	m native	ungu	ılates aı	re signif	icant.			
Did disturbance or If yes, describe: _ -	Backfillir	ng and	revege	ndisturbe tation car al effect.			d to pre	Yes event dis	sturban	No ce outsi		X
Work Halted? If yes, describe: _	N/A	Yes		No	X							
Notifications:	Shoo	hono I	Bannock	Tribos								
Primary contact(s)		line Sn		Tilbes								
Date contacted:			nmunica	ations								
Contact Method:	E-ma		X Pho		Officia	l corr	esnonc	dence (	CCN#·			
Cultural Materials (	observe	d?	Yes	X Ily placed		No				c stage	station	<sup>'</sup>
_	Artifacts	and c	ultural fe	eatures o	ccur thro	ughou	ut the a	rea and	were c	bserve	d durin	g
_	the back	filling	and reve	egetation	operatio	ns in	undistu	rbed ar	eas aro	und the	trench	ies.
Cultural Materials ( If yes, describe: _	collected N/A	d?	Yes			No	X					
General Comments				es began followed								,
				concerne								
	imp	oacts a	s much	as possik	ole at all	times		_				
Recommendations	: Co	ntinue	yearly r	nonitoring	].							
Attach additional d	locumen	tation	, as wa	rranted (	photos,	profil	es, etc	·.)	Yes		No	Χ

Monitor Number:	HKG-08-01
Monitor Name(s):	Hollie Gilbert and Julie Braun
Monitor Date:	June 17, 2008
Site Name/Numbei	
Reason for monito	ring: Routine check
Findings:	Type 1         X         Type 2         Type 3         Type 4
Impact Agent(s): Significance of Im	No new impacts noted.
Did disturbance or If yes, describe:	impact extend into undisturbed areas? Yes No X
Work Halted? If yes, describe:	Yes No X
Notifications:	
Primary contact(s)	:
Date contacted:	F
Contact Method:	E-mail Phone X Official correspondence, CCN#:
Cultural Materials	observed? Yes X No
If yes, describe:	Last year badger activity was reported in the southeast corner of the stage stations
ii yes, describe.	foundation however, this year it appears that no new badger activity occurred around
-	the foundation or within its immediate area. Additionally, DOE conducted a floodplain
-	trenching project several years ago within the proximity of this site. This year the
-	trenches were backfilled and revegetated. CRM personnel closely monitored this
-	activity in order to avoid impacts to a historic road and bridge abutments associated
-	with the stage station. The sensitive areas were avoided and no impacts were
_	incurred.
Cultural Materials	
If yes, describe:	N/A
General Comment	
	predominant. Also, DOE's floodplain trenching project is in close proximity to
	the site. CRM monitoring is recommended when trenches are back filled and
<b>.</b>	during revegetation efforts.
Recommendations	Monitor annually
Attach additional a	decumentation as warranted (photos profiles etc.)
Attach additional d If yes, describe:	documentation, as warranted (photos, profiles, etc.)  Yes  No X

Monitor Number:	HKG-08-02
Monitor Name(s):	Hollie Gilbert
Monitor Date:	6/18/08
Site Name/Number Reason for monito	
Findings:	Type 1 X Type 2 Type 3 Type 4
Impact Agent(s): Significance of Im <sub>l</sub>	pact:
Did disturbance or If yes, describe: - - - -	In 2007 it was noted that the area was being used for a temporary sheep camp. In. the past it did not appear that this activity directly impacted the site's structural remains however overuse could pose a threat in the future. Sheep disturbance was noted to be on the northern periphery of the site's general area where only vegetation appeared to be disturbed. It appears that this year the area was not used by sheepherders.
Work Halted? If yes, describe:	Yes
Notifications: Primary contact(s) Date contacted: Contact Method:	E-mail
Cultural Materials	observed? Yes X No
If yes, describe:	observed? Yes X No Structural features still visible; house foundation and other rock features such as
ii yes, describe.	possible flower bed boarders and a walk way. The soils where it is assumed the
-	barn/corrals were is still devoid of vegetation except for halogeton and very scant
-	short grasses. Typical trash (i.e. broken glass, nails, cans scattered around site)
-	distributed throughout area. Additional items noted are window pane glass and
-	square nails.
Cultural Materials If yes, describe:	collected? Yes No X
General Comments	s: Monitor annually
Attach additional of the second of the secon	documentation, as warranted (photos, profiles, etc.)  Yes  No X

Monitor Number:	HKG-08-03
Monitor Name(s):	Hollie Gilbert and Julie Braun
Monitor Date:	08/21/08
Project: Site Name/Number: Reason for monitor Findings: Impact Agent(s): Significance of Impa	Richard's Homestead routine  Type 1 X Type 2 Type 3 Type 4  No recent impacts were noted; however this site has probably been looted in the past.
Did disturbance or i If yes, describe:	impact extend into undisturbed areas? Yes No X
Work Halted? If yes, describe:l	Yes No X
Notifications: Primary contact(s): Date contacted: Contact Method:	N/A  E-mail
	This site contains all of the artifacts you would expect at a homestead on the INL; i.e. basalt foundations, broken glass and ceramics, nails, farm equipment pieces and domestic items, just to name a few. Other noticeable features include an area where they stored or chopped fire wood and also hand dug ditches and a small reservoir area that historically was fed by Birch Creek.
Cultural Materials c If yes, describe:l	ollected? Yes No X
General Comments	is probably visited often by passersby. Because of this site's close proximity to public roadways and a gravel access road it should be monitored annually.
Attach additional do If yes, describe:	ocumentation, as warranted (photos, profiles, etc.)  Yes  No X

Monitor Number:	HKG-08-04
Monitor Name(s):	Hollie Gilbert and Julie Braun
Monitor Date:	8/21/08
Project: Site Name/Number Reason for monito Findings: Impact Agent(s): Significance of Imp	: Kuharski Homestead ring: routine  Type 1 X Type 2 Type 3 Type 4  Badger /rodent burrowing
	impact extend into undisturbed areas? Yes No X
Work Halted? If yes, describe: _	Yes
Notifications: Primary contact(s) Date contacted: Contact Method:	E-mail
Cultural Materials of If yes, describe:	During last year's monitoring visit it was discovered that a badger was burrowing just south of the house foundation in a concentration of brick that is thought to have been a blacksmithing forge. This year's monitoring found that no further disturbance has occurred.
Cultural Materials ( If yes, describe: _	collected? Yes No X N/A
General Comments	annually.
Attach additional d If yes, describe: _	ocumentation, as warranted (photos, profiles, etc.)  Yes  No X

Monitor Number:	BRP-0	18-33												
Monitor Name(s):	Brenda	a R. P	ace, Ho	llie Gilb	ert									
Monitor Date(s):	September 16, 2008													
` '			,											
Site Name/Number:		10-BT-	-1370/V	Vilkins I	Homest	ead								
Reason for monitor	ina:	Confir	mation	of site lo	ocation	in relat	ion to	prop	osed r	roiect	activ	ities (	new	
				near N										
	_		1 /					-,						
Findings:	Type 1	1 X	1	Туре	2	1	Г	Гуре	3	7		Tvr	ре 4	Т
i manigo.	· ypc	. , ,	J	. , , ,		J		JPU		_		. 71	<del>,                                    </del>	
Impact Agent(s):		No imp	nacts											
Significance of Impa		N/A	Juoto											
organicanoc or mip	uot	14// \												
Did disturbance or i If yes, describe:	impact e	extend	d into u	ındistu	rbed ar	eas?			Yes	X		No	>	X
Work Halted? If yes, describe:l	N/A	Yes		N	o 🗅									
		_		_										
Notifications:		requir	red und	er Type	1 findii	ng								
Primary contact(s):	N/A													
Date contacted:	N/A													
Contact Method:	E-ma	ıil 📙	Pho	one	Offi	cial co	rresp	onde	ence, (	CCN#:				
<u>_i</u>	n 1988, this site was described as a historic trash scatter with architectural features including a dugout, privy, and corral. Domestic debris (cans, bottles, china, lantern, etc.), construction debris (wood, nails, sheet metal, etc.), machinery (stone parts,													
_	plow par	ts, mo	wer pai	rts), and	d stock	debris (	(harn	ess p	arts, b	arbed v	wire,	bucke	∍ts,	
Ī	horsesh	oe nail	ls) were	include	ed in the	e assen	nblag	je. In	2008,	the ar	tifact	asser	mbla	ge
	and feat													
	as the ho													
<del></del>	1909.													
Cultural Materials c If yes, describe:l	<b>ollecte</b> d N/A	ነ?	Yes			No	)	<b>K</b>						
General Comments	, Th.	o oito -	nncore	oimile	to that	ronort-	م الم	1000	No in	nnasta	W6=6	onna	rost	
General Comments		ivition	appears	similar	to man	DE Sou	u III	1900.	111 011	ipacis	were	appa	obou	
	Activities associated with the NRF Sewer Upgrade as currently planned should have no effect on the site.													
D						!4!	- <b>c</b>	41141		1 41	!14			
Recommendations:				n perio										
				ase wit										
	_ma	ke sur	e plans	for nev	<i>i</i> ponds	have n	not ch	ange	d and	site rei	mains	s prote	ected	J
Attach additional do If yes, describe:	ocumen	tation	, as wa	ırranted	d (phot	os, pro	files,	, etc.)	)	Yes		]	No	X

Monitor Number:	BRP-08-30							
Monitor Name(s):	Brenda R. Pace, Hollie Gilbert, Julie Braun							
Monitor Date:	September 9, 2008							
Site Name/Number	: LMIT-96-51-03							
Reason for monito	ring: Magnetometer surveys for unexploded ordnance (UXO) are utilizing a							
	6-Wheeler and a lightweight cart offroad to identify buried UXO. Project							
	activities are being monitored to assess impacts to known cultural sites.							
Findings:	Type 1 X Type 2 Type 3 Type 4							
Impact Agent(s):	6-Wheeler/cart driving offroad, animal activity							
Significance of Imp								
	impact harder gravel deposits. Impacts to ground surfaces appear to be							
	minimal, not much greater than intensive pedestrian activity. All surface soils							
	in this area are heavily impacted by gophers, ground squirrels, and badgers.							
Did disturbance or If yes, describe:	impact extend into undisturbed areas?  Yes X No  At the present time, 6-Wheeler/cart surveys are restricted to areas previously							
ii yes, describe.	surveyed for archaeological resources to assess impact and suitability for limited							
-	future deployment in unsurveyed areas. These areas are largely undisturbed.							
_	Tuture deployment in unsurveyed areas. These areas are largely undisturbed.							
Work Halted?	Yes No X							
If yes, describe:	N/A							
-								
Notifications:	None required under Type 1 finding							
Primary contact(s)								
Date contacted:	N/A							
Contact Method:	E-mail Phone Official correspondence, CCN#:							
Cultural Materials	observed? Yes X No							
If yes, describe:	Extensive concentration of cans, glass, ceramics, and other metal artifacts. Features							
-	(basalt igloo oven, tent platforms, privy, etc.) are indicated by basalt cobbles, leveled							
-	reas, and depressions. Site is probably associated with canal construction in the							
-	early 1900s. Some distinctive artifacts (e.g. stove parts) have been moved since the							
-	original recording and last monitoring visit, indicating that people are visiting the site.							
_								
Cultural Materials	collected? Yes No X							
If yes, describe:	N/A							
_								
General Comments								
	does not appear to adversely impact historic archaeological materials. Faint							
	tracks are visible through softer soils, but not on flood gravels. No surface							
	artifacts were displaced or broken. Impacts are comparable to intensive foot							
	traffic. Geophysical data collected from the site area may be valuable in							
	identifying additional hidden cultural features at this site.							
Recommendations								
	remediation inside the boundaries of this site. Analyze geophysical data							
	(magnetometer) collected from this location during the survey. Consider							
	additional mapping and artifact collection if unauthorized visitation continues.							
	documentation, as warranted (photos, profiles, etc.)  Yes X  No  photographs taken							

### **A: Historic Trails**

<b>Monitor Number:</b>	HKG-08-05	
Monitor Name(s):	Hollie Gilbert and Julie Braun	
Monitor Date: \'	8/20/08	
Site Name/Number:	Coodala'a Cutoff/ T 1	
Reason for monitor	ring: routine	
Findings:	Type 1 Type 2 X Type 3 Type 3	pe 4
Impact Agent(s):		
Significance of Imp	act: It appears that Goodale's Cutoff has been heavily used by cattle and	<u> </u>
Significance of hip	ranchers this year. Areas along the road where salt licks have been	
	are heavily trampled by cattle leaving deep rusts outside of the existi	
	tracks. Water tanker trucks and ranching vehicles have traveled the	
	extensively leaving the trail very powdery in places and causing soil	
	the rockier spots along the route exposing more rocks and making the	
	rougher. BLM road grading activities that occurred several years ag	
	the point where T-1 cross the western INL border and continuing for	severai
	miles east are still very visible.	
Did disturbance or i	impact extend into undisturbed areas? Yes No	X
Work Halted? If yes, describe:	Yes No X	
Notifications:		
Primary contact(s):	N/A	
Date contacted:		
Contact Method:	E-mail Phone Official correspondence, CCN#:	
Cultural Materials o	<b>No</b> Various lithic scatters were noted along the route. However they were not fo	rmerly
	monitored. Where the road intersects basalt outcrops and ridges; wear from	
	wagon wheels and in some cases iron/rust stains are still visible on rock surf	
	should also be noted that there are other visible sections (small side routes)	
_	road that weave in and out along the entire current route.	01 1110
<u></u> '	Toda that weave in and out along the entire eartern route.	
Cultural Materials c If yes, describe:	collected? Yes No X	
<b>General Comments</b>	:	
Attach additional de		
If yes, describe:	ocumentation, as warranted (photos, profiles, etc.)	No X

Monitor Number:	HKG-08-06
Monitor Name(s):	Hollie Gilbert and Julie Braun
Monitor Date: \ \	8/20/08
Site Name/Number: Reason for monitor	
Findings:	Type 1 X Type 2 Type 3 Type 4
Impact Agent(s): Significance of Imp	No visible impacts were found along the section of T-2 that spans the INL. If there were any sheepherding activities along this route earlier this Spring, they were kept to a minimum and no noticeable recent sheep camps were located.
Did disturbance or If yes, describe:	impact extend into undisturbed areas? Yes No X
Work Halted? If yes, describe:	Yes No X
Notifications:	
Primary contact(s):	N/A
Date contacted:	
Contact Method:	E-mail Phone Official correspondence, CCN#:
	Various historic and prehistoric sites are scattered along the route, however none of
	them were formerly monitored. Where the road intersects basalt outcrops and
	ridges; wear from wagon wheels and in some cases iron/rust stains are still visible on
_	rock surfaces. It should also be noted that there are other visible sections (small side
	routes) of the road that weave in and out along the entire current route.
Cultural Materials c If yes, describe:	ollected? Yes No X
General Comments	: Monitor annually
	coumentation, as warranted (photos, profiles, etc.)  Yes  No X
If yes, describe:	ocumentation, as warranted (priotos, promes, etc.)

Monitor Number:	BRP-08-11					
Monitor Name(s):	Brenda R. Pace, Hollie Gilbert					
Monitor Date:	October 24, 2007 and May 20, 2008					
Site Name/Number:	Blackfoot-Little Lost River Road / T-20					
Reason for monitoring: Routine surveillance of archaeological sites in vicinity of National						
	Explosive Test Range					
Findings:	Type 1         Type 2         X         Type 3         Type 4					
Impact Agent(s):	Powerline road that intersects T-20 is very heavily used now. Project					
	personnel were discouraged from using T-20 as a turnaround or staging area					
	but trailer and temporary flag pole were placed there in 2007. Vehicles have					
	flattened the area and are affecting the integrity of the primitive two-track.					
	By May 2008, problems were corrected and impacts were halted.					
Significance of Impa						
	of 2008.					
	mpact extend into undisturbed areas? Yes No X					
	Heavy use of the intersection of T-20 and the powerline road is creating a flattened					
	area and it is becoming difficult to distinguish the primitive two-track. Impacts halted					
<u>k</u>	by May of 2008 with relocation of the flag pole.					
Work Halted?	Yes No X					
If yes, describe:	N/A					
Notifications:	None required under Type 1 finding					
Primary contact(s):	N/A					
Date contacted:	N/A					
Contact Method:	E-mail Phone Official correspondence, CCN#:					
Cultural Materials o	bserved? Yes No X					
If yes, describe:						
Cultural Materials c	ollected? Yes No X					
If yes, describe: _	N/A					
General Comments:	Powerline and road maintenance have caused significant impacts to portions of					
	this site. Continued use of the intersection for turnaround and flag placement					
	will cause additional impacts, creating a wider corridor of disturbance.					
	Corrective actions initiated by May, 2008.					
Recommendations:	Require project personnel to move flag trailer to another less sensitive location.					
	Continue to monitor trail because it is so convenient for project use/abuse as					
	turnaround area.					
Attach additional do	ocumentation, as warranted (photos, profiles, etc.)  Yes  No X					
If ves describe:	/ / / / / / / / / / / / / / / / / / /					

# A: Experimental Breeder Reactor I – National Historic Landmark

Monitor Number:	JBB-08-01					
Monitor Name(s):	Julie Braun					
Monitor Date:	May 7, 2008					
Site Name/Number:	Experimental Breeder Reactor Complex (EBR-601 and EBR-602)					
D	National Historic Landmark status					
Reason for monitori	ng: National Historic Landmark status					
Findings:	Type 1 X Type 2 Type 3 Type 4					
Impact Agent(s):	Poor water drainage system. Guardhouse has several impact agents, most caused by neglect. They include rodents, biological growth on roof, moisture causing shingles to curl, leaking roof, potential for lead paint.					
Significance of Impa	nct: Not significant					
Did disturbance or in	mpact extend into undisturbed areas? Yes No X					
Work Halted? If yes, describe:	Yes No X					
Notifications:	None required by Type I impact determination					
Primary contact(s):	None required by Type I impact determination					
Date contacted:						
Contact Method:	E-mail Phone Official correspondence, CCN#:					
•						
<b>Cultural Materials ob</b>	oserved? Yes X No					
If yes, describe: _E	BR I is a cultural resource.					
Cultural Materials co	ollected? Yes No X					
General Comments:	EBR I is being well maintained by the BEA Facilities organization and a new roof is planned.					
Recommendations:	Findings and prioritization of issues are included in the EBR I Preservation					
	PlanTreatments of issues should be scheduled and completed based on					
	priority and available funding. Cleaning staff should be trained to spot and					
	report issues to the EBR-I landlord as soon as they arise. The landlord should					
	maintain a logbook of issues, when they were reported, when they are					
	scheduled for treatment, and when and how treatment was completed.					
	Continue to monitor annually.					
	<u> </u>					
Attach additional do If yes, describe:	cumentation, as warranted (photos, profiles, etc.)  Yes  No X					

## A: Projects

Monitor Number:		BRP-08-35								
Monitor Name(s):		Brenda R. Pace, Hollie Gilbert								
Monitor Date:	Octo	October 24, 2007 and May 20, 2008								
Duala at		Matianal	Caarmit	. Canlan	ina Taat	Dana				
Project:	wim a				sive Test				ndationa	
Reason for monito	oring:	Check of	n projeci	Compil	ance witi	Cuitt	ural resourc	e recomme	endations	
Findings:	Туре	Type 1 X Type 2 Type 3 Type 4								
Impact Agent(s):		Road ma	aintenan	ce. park	kina. eaui	pmer	nt storage a	nd setup. e	xplosive test	ina
Significance of Imp	pact:									
		In 2007, impacts were extending outside established roadways, laydown and test areas. Impacts were minor, but cumulative and well outside the limits								
									tive actions	
					ay of 200					
Did disturbance or	r impac	t extend i	nto und	isturbe	d areas?	•	Ye	s X	No	
If yes, describe:	Early ir	า FY 2008	, project	activitie	es are ext	tendir	ng beyond s	survey bour	ndaries and i	nto
_							or, but cumu			
_									d along the T	-25
_	access	road are	jeopardi.	zed. In	May of 2	008,	problems h	ave been c	orrected.	
		_								
Work Halted?		Yes		No	X					
If yes, describe:	N/A									
N. 4161 41		•								
Notifications:		ne required	d under	Type 11	inding					
Primary contact(s)										
Date contacted:	N/A		l Di		0(() - ) - 1			0014		
Contact Method:	E-m	iaii	Phone	<u> </u>	Omiciai	corre	espondence	e, CCN#:		
Cultural Materials	obsorv	043	Yes		,	No	X			
If yes, describe:			_	 activitia	_			ryeved area	as and may b	20
ii yes, describe.							oblems hav			,,,
-	ппрасс	ing canara	ar matom	210. Dy	iviay, 200	, p.	Obioino nav	0 00011 0011	octou	
<b>Cultural Materials</b>	collecte	ed?	Yes			No	X			
If yes, describe:	N/A				-					
	,, .									
<b>General Comments</b>	s: Pi	roblems w	ith proje	ct creep	into uns	urve	yed/undistu	rbed areas	adjacent to	
									ly in the fisca	al
							sources and			
	er	nvironmen	ital perso	onnel. (	Corrective	e acti	ons were in	itiated and	implemented	yd k
	M	ay of 2008	8. This i	ncluded	l monitori	ing of	f sensitive a	rchaeologic	cal sites near	٢
	_ro	ads and la	aydown	areas, r	elocation	of R	ange flag a	way from T-	-20 historic to	rail,
									0 ft fire buffe	
									n nonsensitiv	
							source avoid	lance ahea	d of installati	on
		f signs aro								
Recommendations									ations for site	<u> </u>
							tretches and		nal data	
		ollection a	t archae	ological	sites alo	ng th	e sides of the	ne road.		
Attack od dilition i	J	44!		: / ا- مامد			4- \	V	NI -	V
Attach additional of the second of the secon	ocume	intation, a	as warra	intea (p	notos, p	rofile	es, etc.)	Yes	No	X

Monitor Number:	BRP-08-19							
Monitor Name(s): Brenda R. Pace, Hollie Gilbert, Julie Braun								
Monitor Date:	May 14, 2008							
Project: Reason for monitorin	Long Term Ecological Sampling Project surveillance to confirm compliance with cultural resource recommendations.							
Findings:	Type 1 X Type 2 Type 3 Type 4							
Impact Agent(s): Significance of Impa	None None							
	npact extend into undisturbed areas? Yes No X							
Work Halted? If yes, describe: N	Yes No X							
Notifications: Primary contact(s): Date contacted: Contact Method:	None required under Type 1 finding  N/A  N/A  Official a server of the s							
Cultural Materials ob	E-mail Phone Official correspondence, CCN#:  Served? Yes No X  /A							
Cultural Materials co	ollected? Yes No X							
General Comments:	Project is in compliance with cultural resource recommendations and no adverse impacts have occurred or are anticipated. Surveys are requested of sampling plots that have not been inventoried for cultural resources. Project activities have limited impact (GPS mapping, setting and checking small traps, vegetation samples, small surface soil samples, driving to and from test plots). Cultural resource awareness training requirements met.							
Recommendations:	Continue monitoring these activities, particularly in culturally sensitive areas.							
Attach additional do	cumentation, as warranted (photos, profiles, etc.)  Yes  No X							

Monitor Number: E	3RP-08-22					
Monitor Name(s):	renda R. Pace, Hollie Gilbert					
Monitor Date: A	pril 8, April 22, June 4, and July 11, 2008					
Project: Reason for monitoring	Powerline Testing at PBF and MFC  Project surveillance to confirm compliance with cultural resource recommendations and monitoring of ground disturbance in sensitive areas.					
Findings:	Type 1 X Type 2 Type 3 Type 4					
Impact Agent(s):	Project activities located to avoid known archaeological sites and road upgrades were not conducted.					
Significance of Impac	t: None					
Did disturbance or im If yes, describe: No	pact extend into undisturbed areas? Yes No X					
Work Halted? If yes, describe: N//	Yes No X					
Notifications:	None required under Type 1 finding					
Primary contact(s):	N/A					
Date contacted:	N/A					
Contact Method:	E-mail Phone Official correspondence, CCN#:					
Cultural Materials obs						
Cultural Materials coll If yes, describe: _N//						
General Comments:	Project is in compliance with cultural resource recommendations and no					
	adverse impacts have occurred or are anticipated. New equipment pads were					
	placed to avoid archaeological sites and monitoring of ground disturbance					
	revealed no unanticipated discoveries. Road upgrades were not necessary					
	after a change in the weather.					
Recommendations:	Continue monitoring these activities, particularly in culturally sensitive areas.					
Attach additional doc	umentation, as warranted (photos, profiles, etc.)  Yes  No X					

Monitor Number:	BRP-08-01
Monitor Name(s):	Brenda R. Pace
Monitor Date:	October 8-9, 2007
Project:	Big Lost River Trenches
Reason for monito	
reason for monito	Memorandum of Agreement between DOE-ID, the Advisory Council, and
	Idaho SHPO and consultation with the Shoshone-Bannock Tribes
Findings:	Type 1 X Type 2 Type 3 Type 4
Impact Agent(s):	4 WD trucks, heavy equipment, foot traffic
Significance of Imp	Disking and seeding equipment travelled over previously disturbed area and
	sagebrush seedlings were placed by hand. No impacts occurred beyond the
	original disturbed area.
Did distantance on	in a set out and into an distante description.
lf yes, describe:	impact extend into undisturbed areas? Yes No X  Revegetation activities carefully designed to prevent disturbance outside the original
ii yes, describe.	area of potential effect.
_	area or potential effect.
Work Halted?	Yes No X
If yes, describe:	N/A
<u>-</u>	
Notifications:	Shoshone-Bannock Tribes
Primary contact(s)	
Date contacted:	Multiple communications
Contact Method:	E-mail X Phone X Official correspondence, CCN#:
Cultural Materials	observed? Yes X No
If yes, describe:	Trenches were originally excavated with heavy equipment inside the boundaries of
ii yes, describe	prehistoric lithic scatters as well as the historic Powell State Station. Sites impacted
_	include 10-BT-2194, 10-BT-2189, 10-BT-2193, and 10-BT-2192. Trenches were
_	backfilled Aug 28 – Sept 6, 2007, with full-time cultural resource monitoring. No
_	additional artifacts or cultural features were observed as the trenches were closed.
_	Artifacts and cultural features occur in all areas and were observed during the
_	backfilling operations in undisturbed areas around the trenches. No new materials
_	were observed during the revegetation effort described in this form.
Oultanual Mataulala	- No - to do No - V
Cultural Materials ( If yes, describe:	
ii yes, describe	N/A
General Comments	Revegetation activities began on October 8, 2007 and finished in two days.
	Heritage Tribal Office representatives were informed of work, but could not be
	present during the work Project personnel were cooperative and concerned
	about cultural resource protection, minimizing impacts as much as possible. As
	a result, no new impacts occurred and no new artifacts were observed.
Recommendations	: Monitor revegetation progress in 2008.
Attack additional d	legumentation as warrented (photos profiles etc.)
Attach additional d If yes, describe:	ocumentation, as warranted (photos, profiles, etc.)  Yes X  No  photographs taken
ii yes, uescribe: _	hinorodiahina rayeji

Monitor Number:	BRP-08-36							
Monitor Name(s):	Brenda R. Pace, Hollie Gilbert							
Monitor Date:	May 12, August 5, and September 9, 2008							
Project:	Geophysical Surveys at the Fuze Burn and Dairy Farm Ordnance Areas							
Reason for monito								
	6-Wheeler and a lightweight cart offroad to identify buried UXO and flag it for							
	future remediation. These project activities are being monitored to							
	determine if the offroad activity results in impacts to known historic and							
	prehistoric archaeological sites.							
Findings:	Type 1 X Type 2 Type 3 Type 4							
I	C M/h a standard duiting affine adjustical activity.							
Impact Agent(s):	6-Wheeler/cart driving offroad, animal activity							
Significance of Imp								
	impact harder gravel deposits. Impacts to ground surfaces appear to be							
	minimal, not much greater than intensive pedestrian activity.							
Did disturbance or	r impact extend into undisturbed areas?							
If yes, describe:	•							
ii yes, describe.	At the present time, 6-Wheeler/cart surveys are restricted to areas previously surveyed for archaeological resources to assess impact and suitability for limited							
-	future deployment in unsurveyed areas. These areas are largely undisturbed.							
-	Tuture deployment in unsurveyed areas. These areas are largely undisturbed.							
Work Halted?	Yes No X							
If yes, describe:	N/A							
ii yes, describe.	IVA							
Notifications:	None required under Type 1 finding							
Primary contact(s)								
Date contacted:	N/A							
Contact Method:	E-mail Phone Official correspondence, CCN#:							
<b>Cultural Materials</b>	observed? Yes X No							
If yes, describe:	heeler/cart passed through the boundaries of one known archaeological site							
-	(LMIT-96-51-03—canal construction camp) with no appreciable negative impacts.							
-								
<b>Cultural Materials</b>	collected? Yes No X							
If yes, describe:	N/A							
General Comment								
	of the 6-Wheeler and cart does not appear to adversely impact historic							
	archaeological materials. Faint tracks are visible through softer soils, but not on							
	gravel surfaces. No artifacts were displaced or broken. Impacts are							
	comparable to intensive foot traffic. Geophysical data may be useful in							
	archaeological research applications.							
Recommendations								
	any proposals to expand offroad surveys to other settings and soils as impacts							
	may be higher where soils are sandier and less consolidated. Complete							
	intensive archaeological surveys in advance of any proposed cleanup or							
	remediation resulting from these surveys. Directly monitor any proposed							
	removal of ordnance from inside the boundaries of known cultural resources.							
A44 - 1 - 1 1141 - 1								
	documentation, as warranted (photos, profiles, etc.)  Yes  No X							
If yes, describe:								

Monitor Number:	BRP-	08-14									
Monitor Name(s):	Brend	da R. Pace	)								
Monitor Date(s):	May :	5, 2008									
` ,											
Project:		Test Area	North [	Demolitic	n Land	lfill					
Reason for monitor	ina:	Proiect su	ırveillan	ce to cor	nfirm co	mplia	nce with c	ultural reso	urce		
	9	recomme									
	-	1000111110	- radio ri	<u>.                                    </u>							
Findings:	Туре	1 X	Т	ype 2		Γ	Type 3		Tvi	pe 4	
i ilidiliga.	Type	1   7	•	ypc z		L	Турс о		<u>' ' y  </u>	JC <del>T</del>	
Impact Agent(s):		Surround	ina araa	hae hae	an dietu	rhad h	w heavy c	auinment d	anositina		
impact Agent(3).	-	Surrounding area has been disturbed by heavy equipment depositing construction waste from demolition and covering with dirt fill taken from the									
	-										
	-							emain unda		OIII	
								impact the			
Significance of Imp	act:							ult of Landfi		ons.	
	_						vegetation	it should re	eturn to		
	_	approxima	ate pre-	Landfill a	appeara	ance.					
Did disturbance or i	impact	extend in	ito undi	sturbed	areas	?	Ye	es	No	X	
If yes, describe:	N/A										
_											
Work Halted?		Yes		No	X						
	N/A										
	,, .										
Notifications:	Non	e required	under T	vne 1 fir	ndina						
Primary contact(s):		o required	unaci i	урстіі	lanig						
Date contacted:	N/A										
Contact Method:	E-m	ail	Phone		re: -: -!			CCN#.			
Contact Wethou.	[-111	ali	Filone		Jiliciai	corres	spondenc	e, CCN#:			
O 16 I M - 6 - 2 - 1		10	<b>у</b> Г	V							
Cultural Materials o				X		No					
								d Elko corn			
								expanded t			
								of Intermour			
	pottery	from a cla	ssic flat-	-bottome	ed pot.	No ne	w artifacts	were obse	rved in 2	008.	
						_					
Cultural Materials c	ollecte	d?	Yes			No	X				
If yes, describe:	N/A					_					
_											
<b>General Comments</b>	: Fe	ences place	ed aroui	nd the pe	erimete	r of the	e site have	e prevented	damage		
		Fences placed around the perimeter of the site have prevented damage.  Artifacts appear to be untouched, indicating that unauthorized collection has not									
		been a problem. Site appears undisturbed except for changes to the									
		surrounding landscape and the setting of the site. These impacts will be									
B		minimized by rehabilitation planned when the landfill is closed.  Continue monitoring for continued compliance with recommendations for site									
Recommendations:										r site	
	_pr	otection. A	Arrange	to have	tences	remov	ed when l	andfill is clo	sed.		
Attach additional de	ocume	ntation, as	s warra	nted (ph	iotos, p	orofile	s, etc.)	Yes		No X	
If yes, describe: _											

Monitor Number:	BRP-08-37							
Monitor Name(s):	Brenda R. Pace							
Monitor Date:	October 29, 2007 and April 22, June 4, June 17, September 15, 2008							
Duningt								
Project:	Critical Infrastructure Test Range Complex (CITRC, formerly Power Burst							
D	Facility) soil disturbance							
Reason for monitor								
	particularly in the vicinity of PER-632 and the Waste Experimental Reduction							
	Facility (WERF) where human remains have been discovered in secondary							
	(10-BT-1991) and original (10-BT-2046) contexts and as required by LWP-							
	8000 and MCP-3480.							
Findings:	Type 1         X         Type 2         Type 3         Type 4							
	NI							
Impact Agent(s):	None							
Significance of Impa	act: N/A							
Bulling Land	Consider the Party of Party Landson (A)							
	impact extend into undisturbed areas? Yes No X							
If yes, describe:!	N/A							
W	V N- V							
Work Halted?	Yes No X							
If yes, describe:!	N/A							
Natifications.	Name was vivad under Tune 4 finding							
Notifications:	None required under Type 1 finding							
Primary contact(s): Date contacted:	N/A N/A							
Contact Method:	E-mail Phone Official correspondence, CCN#:							
Cultural Materials o	bserved? Yes No X							
If yes, describe:	N/A							
Cultural Materials c	ollected? Yes No X							
	N/A							
ii yes, describe	WA							
General Comments	: No artifacts or human remains observed in project excavations (tank removal,							
General Comments	berm removal, waterline removal, excavation for new equipment pad).							
Recommendations:								
Necommendations.								
	requirements of LWP-8000, MCP-3480, and the wishes of the Shoshone-Bannock Tribes.							
	Dailliock Tibes.							
Attach additional de	noumentation as warranted (photos profiles etc.)							
	ocumentation, as warranted (photos, profiles, etc.)  Yes X  No							
If yes, describe:	photographs taken							