Nevada
Environmental
Restoration
Project

DOE/NV--1264

National Nuclear Security Administration

Post-Closure Inspection Report for Corrective Action Unit 92: Area 6 Decon Pond Facility, Nevada Test Site, Nevada For Calendar Year 2007

Controlled Copy No.:_____

Revision: 0

March 2008

Environmental Restoration
Project

U.S. Department of Energy
National Nuclear Security Administration
Nevada Site Office

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DOE/NV--1264

POST-CLOSURE INSPECTION REPORT FOR CORRECTIVE ACTION UNIT 92: AREA 6 DECON POND FACILITY, NEVADA TEST SITE, NEVADA

FOR CALENDAR YEAR 2007

U.S. Department of Energy
National Nuclear Security Administration
Nevada Site Office
Las Vegas, Nevada

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POST-CLOSURE INSPECTION REPORT FOR CORRECTIVE ACTION UNIT 92: AREA 6 DECON POND FACILITY, NEVADA TEST SITE, NEVADA

FOR CALENDAR YEAR 2007

Approved By: /s/ Kevin Cabble Date: 2-27-08
Kevin J. Cabble
Federal Sub-Project Director
Industrial Sites Sub-Project

Approved By: /s/ J Jones Date: 2/27/08
John B. Jones
Acting Federal Project Director
Environmental Restoration Project

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ACRONYMS AND ABBREVIATIONS

CAS	Corrective Action Site
CAU	Corrective Action Unit
CFR	Code of Federal Regulations
cm	centimeter(s)
DOE/NV	U.S. Department of Energy, Nevada Operations Office
EPA	U.S. Environmental Protection Agency
FFACO	*Federal Facility Agreement and Consent Order*
ft	foot (feet)
in.	inch(es)
m	meter(s)
NDEP	Nevada Division of Environmental Protection
RCRA	*Resource Conservation and Recovery Act*

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EXECUTIVE SUMMARY

This Post-Closure Inspection Report provides an analysis and summary of inspections for Corrective Action Unit (CAU) 92, Area 6 Decon Pond Facility. CAU 92 was closed according to the *Resource Conservation and Recovery Act* (RCRA) Part B Operational Permit (Nevada Division of Environmental Protection [NDEP], 1995) and the *Federal Facility Agreement and Consent Order* (FFACO) of 1996 (FFACO, 1996; as amended January 2007). Closure activities were completed on February 16, 1999, and the Closure Report (U.S. Department of Energy, Nevada Operations Office, 1999) was approved and a Notice of Completion issued by NDEP on May 11, 1999.

CAU 92 consists of two Corrective Action Sites (CASs): CAS 06-04-01, Decon Pad Oil/Water Separator, and CAS 06-05-02, Decontamination Pond (RCRA). Both CASs have use restrictions; however, only CAS 06-05-02 requires post-closure inspections.

Visual inspections of the cover and fencing at CAS 06-05-02 are performed quarterly. Additional inspections are conducted if precipitation occurs in excess of 1.28 centimeters (cm) (0.50 inches [in.]) in a 24-hour period. This report covers calendar year 2007.

Quarterly site inspections were performed in March, June, September, and December of 2007. All observations indicated the continued integrity of the unit. No issues or concerns were noted, and no corrective actions were necessary. Copies of the inspection checklists and field notes completed during each inspection are included in Appendix A of this report, and photographs taken during the site inspections are included in Appendix B of this report.

Two additional inspections were performed after precipitation events that exceeded 1.28 cm (0.50 in.) within a 24-hour period during 2007. No significant changes in site conditions were noted during these inspections, and no corrective actions were necessary. A copy of the inspection checklists and field notes completed during these additional inspections are included in Appendix A. Precipitation records for 2007 are included in Appendix C.

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1.0 INTRODUCTION

1.1 SCOPE AND OBJECTIVES

Corrective Action Unit (CAU) 92, Area 6 Decon Pond Facility, is located in Area 6 of the Nevada Test Site, Nevada, adjacent to the Decontamination Facility along the southern portion of the Yucca Lake Dry Playa (Figure 1). CAU 92 is identified in the *Federal Facility Agreement and Consent Order* (FFACO) of 1996 (FFACO, 1996; as amended January 2007) and was closed according to the *Resource Conservation and Recovery Act* (RCRA) Part B Operational Permit (Nevada Division of Environmental Protection [NDEP], 1995). CAU 92 consists of two Corrective Action Sites (CASs): CAS 06-04-01, Decon Pad Oil/Water Separator, and CAS 06-05-02, Decontamination Pond (RCRA). This report provides an analysis and summary of the quarterly site inspections performed at CAU 92 during calendar year 2007.

1.2 SITE HISTORY

The Area 6 Decon Pond Facility was constructed and became operational in 1979. It was approximately 60 meters (m) (200 feet [ft]) long on each interior side, with perimeter berms at 1.5 m (5 ft) above the surrounding grade. A discharge pipe from the Decon Pad Oil/Water Separator (CAS 06-04-01) entered the Decontamination Pond (CAS 06-05-02) on the southwest side, approximately 0.3 m (1 ft) above the base of the pond. The Decontamination Pond was unlined and was surrounded by an earthen berm on all four sides with a two-to-one grade (U.S. Department of Energy, Nevada Operations Office [DOE/NV], 1996).

The Decon Pond Facility was used for the disposal of partially treated liquid effluent discharged from Buildings 6-605 (Decontamination Facility) and 6-607 (Industrial Laundry). Effluent from Buildings 6-605 and 6-607 was piped into the Decontamination Pad Oil/Water Separator and then to the Decontamination Pond where it was allowed to evaporate.

Radioactively contaminated site worker clothing (e.g., coveralls, gloves, and boot covers) was processed in the laundry in Building 6-607. The laundry process used standard industrial water softeners and laundry detergents to decontaminate the personal protective equipment. Heavy equipment and critical tolerance equipment used in weapons testing were processed in Building 6-605 to remove radioactive contamination. This equipment was treated using degreasers, caustic or acid solutions, and detergents, and then washed with pressurized hot water. The wash water was collected in floor drains and piped through a sand filter. This partially treated water also fed into the Decon Pad Oil/Water Separator and then discharged into the Decontamination Pond.

Suspected RCRA-regulated hazardous waste or hazardous waste constituents released into the Decontamination Pond included degreasing solvents associated with equipment decontamination activities (chlorobenzene and 1,1,1-trichlorethane), petroleum hydrocarbon constituents (xylenes), and heavy metals (lead and arsenic). Releases of RCRA-regulated hazardous waste or hazardous waste constituents have not been discharged to the Decontamination Pond since 1988 (DOE/NV, 1996). The following radionuclides were detected: cobalt-60, cesium-137, plutonium-238, and tritium. A detailed discussion of the unit activities and analytical results can be found in the CAU 92 Characterization Report (DOE/NV, 1997a).

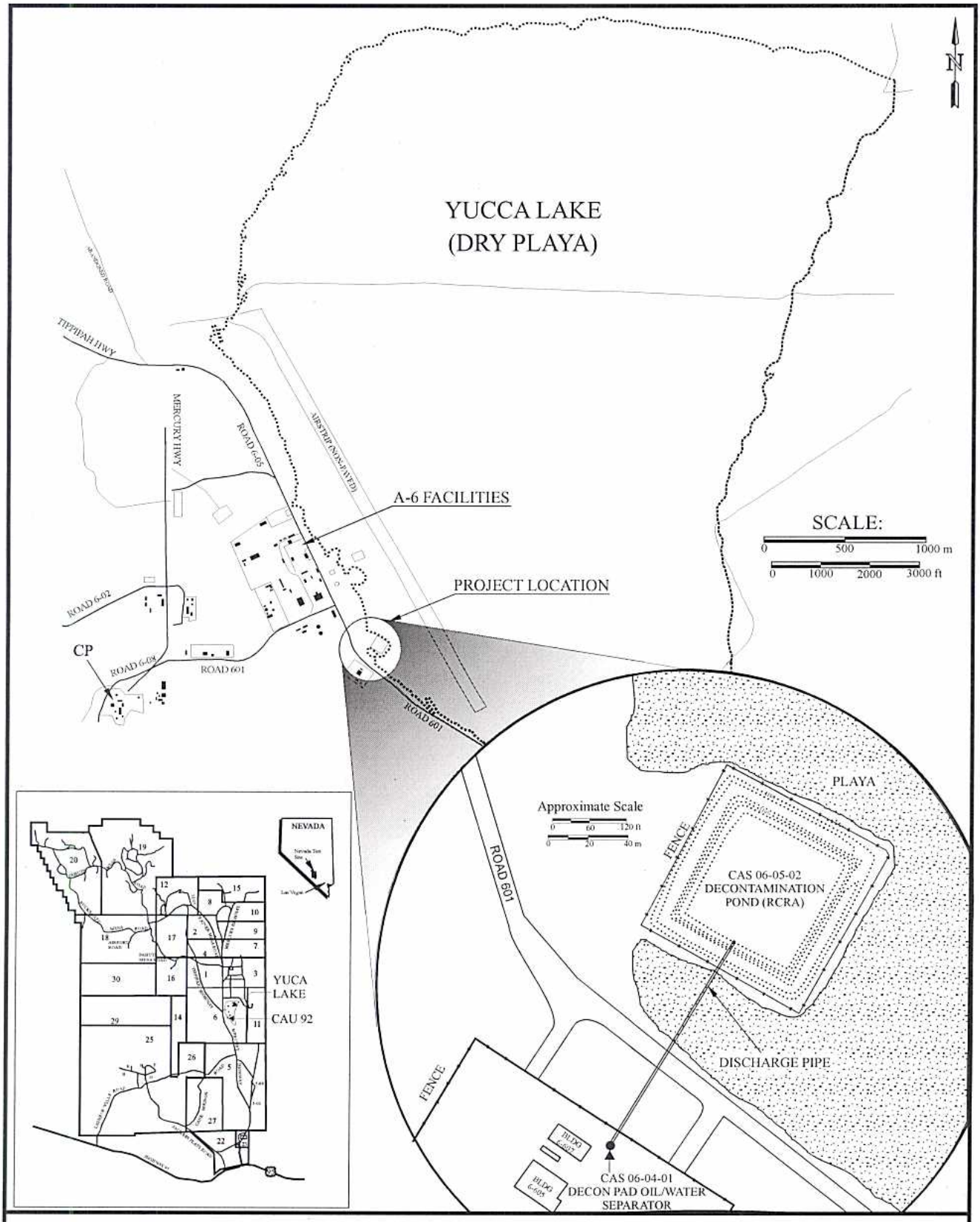


FIGURE 1
LOCATION OF CAU 92, AREA 6 DECON POND FACILITY

CAS 06-05-02, Decontamination Pond (RCRA), was closed by constructing an engineered cover (DOE/NV, 1999). The earthen berms were pushed into the pond and compacted. Additional materials were imported to form subsequent layers and compacted to meet specifications. The final layers consist of a bedding layer, geosynthetic clay liner, buffer layer, and erosion control layer. The cover was designed to meet or exceed all requirements specified in Title 40 Code of Federal Regulations (CFR) §265.228(a)(2) (CFR, 1996). Monuments were placed on the cover to monitor subsidence, and a chain-link fence surrounds the cover to limit access.
CAS 06-04-01, Decon Pad Oil/Water Separator, was closed by backfilling with grout.

All closure activities performed at CAU 92 were completed on February 16, 1999. The Closure Report (DOE/NV, 1999) was approved and a Notice of Completion for CAU 92 was issued by NDEP on May 11, 1999. Table 1 summarizes the chronology of significant events over the life span of the facility.

TABLE 1: CHRONOLOGY OF THE AREA 6 DECON POND FACILITY

DATE	SIGNIFICANT EVENTS
1979	The Decontamination Pond was constructed and became operational.
1979-1988	The facility received partially treated liquid effluents from Building 6-605 (Decontamination Facility) and Building 6-607 (Industrial Laundry) prior to the implementation of administrative controls on the use of RCRA-regulated materials.
1990	A clay discharge pipe from Building 6-605 was broken during a trenching operation. An unknown amount of effluent was released to the subsurface soil.
1991	On March 3, the northwest side of the earthen berm was reportedly breached due to an intense rainstorm and high winds, with effluent spilling onto the Yucca Lake Playa.
1992	The Decontamination Pond was removed from service, and all known access lines were plugged and re-routed to aboveground tanks.
1996	Closure activities began with the submission and approval of the *Resource Conservation and Recovery Act Industrial Site Environmental Restoration Site Characterization Plan Area 6 Decontamination Pond Facility* (DOE/NV, 1996).
1997	A characterization program to obtain samples for radiological, chemical, and geotechnical parameters was conducted from May to June.
	The *Resource Conservation and Recovery Act Industrial Site Environmental Restoration Site Characterization Report, Area 6 Decontamination Pond Facility, Corrective Action Unit No. 92* (DOE/NV, 1997a) was issued.
	The *Resource Conservation and Recovery Act Corrective Measures Study, Area 6 Decontamination Pond Facility, Corrective Action Unit No. 92* (DOE/NV, 1997b) was issued.
1998	The *Closure Plan for Corrective Action Unit 92: Area 6 Decontamination Pond, Nevada Test Site, Nevada* (DOE/NV, 1998) was issued.
	Closure activities began on July 30.
1999	Closure activities were completed on February 16.
	The *Closure Report for Corrective Action Unit 92: Area 6 Decontamination Pond, Nevada Test Site, Nevada* (DOE/NV, 1999) was issued.
	The Closure Report was approved and a Notice of Completion issued by NDEP on May 11.
	Quarterly inspections began in March.

2.0 REGULATORY CRITERIA

Post-closure inspections of CAU 92, Area 6 Decon Pond Facility, are required under 40 CFR §265.116 through §265.120 (CFR, 1996). The post-closure requirements for the cover are specified in Section VII.B.5 of the RCRA Part B Permit NEV HW0021 (NDEP, 2005).

Inspections are conducted quarterly. Additional inspections are conducted if precipitation occurs in excess of 1.28 centimeters (cm) (0.50 inches [in.]) in a 24-hour period. Post-closure inspections consist of and adhere to the following:

- During each inspection, the cover and fencing are inspected. The perimeter of the site is walked by the inspector, and the condition of the wave barrier (fiberglass slats laced through the bottom of the chain-link fencing), warning signs, entrance gate, and lock is documented. The reason for the inspection (i.e., quarterly or precipitation event) is noted on the inspection checklist.
- During each inspection, any changes in the condition of the cover or fenced area are documented. Specific changes noted regarding the current condition of the cover include, but are not limited to, trash and debris within the fenced area, vegetation growing on the cover, animal burrows/nesting activity, or erosion of the cover.
- Small cracks or settling depressions (less than 5 cm [2 in.] deep) are documented, and any necessary cover repair is scheduled on an annual basis. Larger disruptions of the cover are immediately reported to NDEP and evaluated and remedied within 60 days of discovery.
- All repair work preserves the original RCRA cover "as-built" design. If the cover repair requires modification to the RCRA cover design, the U.S. Department of Energy, National Nuclear Security Administration Nevada Site Office presents a formal design modification request to NDEP prior to making the design modification.

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3.0 SITE INSPECTION RESULTS

Quarterly post-closure inspections of CAU 92 for calendar year 2007 were conducted on March 29, June 13, September 27, and December 18, 2007. Two precipitation-triggered inspections were performed on September 24 and December 11, 2007. Copies of the inspection checklists and field notes are included in Appendix A of this report. Site photographs taken during the inspections are included in Appendix B of this report.

3.1 QUARTERLY INSPECTION RESULTS

3.1.1 First Quarter

The first quarter inspection was conducted on March 29, 2007. The inspection indicated that the unit was in excellent condition. The wave barrier, which had been identified as damaged during the December 2006 inspection, was repaired on January 25, 2007, and was in excellent condition. No issues were identified with the fence, signs, or monuments. Some vegetation growing on the southwest corner of the cover and around the perimeter of the cover was noted.

All observations indicated the continued integrity of the unit; however, as a best management practice, removal of vegetation was recommended.

3.1.2 Second Quarter

The second quarter inspection was conducted on June 13, 2007. The inspection indicated that the unit was in excellent condition. Vegetative growth observed during the March inspection had been removed on May 23, 2007, and there was no evidence of re-growth. No issues were identified with the fence, signs, monuments, or cover.

All observations indicated the continued integrity of the unit, and no actions were necessary.

3.1.3 Third Quarter

The third quarter inspection was conducted on September 27, 2007. The inspection indicated that the unit was in excellent condition. No issues were identified with the fence, signs, monuments, or cover. Some minor vegetation growing on the north and east edges of the cover was noted.

All observations indicated the continued integrity of the unit; however, as a best management practice, removal of vegetation within 60 days was recommended.

3.1.4 Fourth Quarter

The fourth quarter inspection was conducted on December 18, 2007. The inspection indicated that the unit was in excellent condition. Vegetative growth observed during the September inspection had been removed on November 20, 2007, and there was no evidence of re-growth. No issues were identified with the fence, signs, monuments, or cover.

All observations indicated the continued integrity of the unit, and no actions were necessary.

3.2 PRECIPITATION-TRIGGERED INSPECTION RESULTS

Two inspections were performed following precipitation events that exceeded 1.28 cm (0.50 in.) within a 24-hour period during 2007. Precipitation records for 2007 are included in Appendix C of this report.

A precipitation event measured at 6.73 cm (2.63 in.) occurred on September 21-22, 2007. An inspection was performed on September 24, 2007. Standing water was present inside the northeast corner of the fenceline; however, there was no water over the waste unit cover. Vegetative growth was noted along the east edge of the cover, but it was not present on the cover itself. The north side of the unit was inaccessible due to standing water. No issues or concerns were noted regarding the fence, signs, monuments, or cover.

A precipitation event measured at 1.68 cm (0.66 in.) occurred on December 8, 2007. An inspection was performed on December 11, 2007. A small pool of water was present along the fenceline; however, there was no water within 30 feet of the waste unit cover. Vegetative growth that had been noted in the previous inspection had been removed on November 20, 2007. No issues or concerns were noted regarding the fence, signs, monuments, or cover.

4.0 SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

4.1 SUMMARY AND CONCLUSIONS

The post-closure inspections conducted in 2007 have demonstrated the continued integrity of the cover, fencing, warning signs, and use restriction for CAU 92. No maintenance or repairs are needed.

4.2 RECOMMENDATIONS

Continue post-closure inspections as scheduled.

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5.0 REFERENCES

CFR, see Code of Federal Regulations.

Code of Federal Regulations, Title 40, Part 265, "Interim Status Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities," 1996.

DOE/NV, see U.S. Department of Energy, Nevada Operations Office.

Federal Facility Agreement and Consent Order, 1996 (as amended January 2007). Agreed to by the state of Nevada; the U.S. Department of Energy, Environmental Management; the U.S. Department of Defense; and the U.S. Department of Energy, Legacy Management.

FFACO, see *Federal Facility and Consent Order*.

NDEP, see Nevada Division of Environmental Protection.

Nevada Division of Environmental Protection, 1995. *Nevada Division of Environmental Protection Permit for a Hazardous Waste Management Facility, Permit Number NEV HW009*. Carson City, NV.

Nevada Division of Environmental Protection, 2005. *Nevada Division of Environmental Protection Permit for a Hazardous Waste Management Facility, Permit Number NEV HW0021*. Carson City, NV.

U.S. Department of Energy, Nevada Operations Office, 1996. *Resource Conservation and Recovery Act Industrial Site Environmental Restoration Site Characterization Plan Area 6 Decontamination Pond Facility*, Revision 1, DOE/NV--438. Las Vegas, NV.

U.S. Department of Energy, Nevada Operations Office, 1997a. *Resource Conservation and Recovery Act Industrial Site Environmental Restoration Site Environmental Restoration Site Characterization Report, Area 6 Decontamination Pond Facility, Corrective Action Unit No. 92*, Revision 1, DOE/NV--470. Las Vegas, NV.

U.S. Department of Energy, Nevada Operations Office, 1997b. *Resource Conservation and Recovery Act Corrective Measures Study, Area 6 Decontamination Pond Facility, Corrective Action Unit No. 92*, DOE/NV--493. Las Vegas, NV.

U.S. Department of Energy, Nevada Operations Office, 1998. *Closure Plan for Corrective Action Unit 92: Area 6 Decontamination Pond, Nevada Test Site, Nevada*, Revision 2, DOE/NV/11718--256-Rev 2. Las Vegas, NV.

U.S. Department of Energy, Nevada Operations Office, 1999. *Closure Report for Corrective Action Unit 92: Area 6 Decontamination Pond, Nevada Test Site, Nevada*, DOE/NV/11718--306. Las Vegas, NV.

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APPENDIX A

INSPECTION CHECKLISTS AND FIELD NOTES

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CAU 92: AREA 6 DECON POND FACILITY, POST-CLOSURE INSPECTION CHECKLIST

Inspection Date and Time: 3/29/07	Reason for Inspection: Quarterly
Date of Last Post-Closure Inspection: 12/20/06	Reason for Last Post-Closure Inspection:
Responsible Agency: Bechtel Nevada Environmental Restoration	
Address: Nevada Test Site, Mercury, Nevada	
Responsible Agency Official: Jeffrey L. Smith, Project Manager	

Chief Inspector: Glenn Richardson	Title: Task Manager	Organization: Environmental Restoration
Assistant Inspector: Rob Baumert	Title: Field Tech Lead	Organization: Environmental Restoration

A. GENERAL INSTRUCTIONS

1. All checklist items must be completed and detailed comments made to document the results of the site inspection. The completed checklist is part of the field record of the inspection. Additional pages should be used as necessary to ensure that a complete record is made. Attach the additional pages and number all pages upon completion of the inspection.
2. Any checklist line item marked by an inspector in a SHADED BOX must be fully explained or an appropriate reference to previous reports provided. The purpose of this requirement is to provide a written explanation of inspector observations and the inspector's rationale for conclusions and recommendations. Explanations are to be placed on additional attachments and cross-referenced appropriately. Explanations, in addition to narrative, will take the form of sketches, measurements, and annotated site maps.
3. The site inspection is a walking inspection of the entire site including the perimeter and sufficient transects to be able to inspect the entire surface and all features specifically described in this checklist.
4. A standard set of color photographs is required. In addition, all anomalous features or new features (such as changes in adjacent area land use) are to be photographed. A photograph log entry will be made for each photograph taken.
5. Field notes taken to assist in completion of this checklist will become part of the inspection record. No form is specified for field notes; however, they must be legible and in sufficient detail to enable review by succeeding inspectors and the responsible agency.
6. This unit will be inspected quarterly with formal reporting to the Nevada Division of Environmental Protection to be done annually. The annual report will include an executive summary, this inspection checklist with field notes and photograph log attached, and recommendations and conclusions.

B. PREPARATION (To be competed prior to site visit)	YES	NO	EXPLANATION
1. Has the Post-Closure Permit been reviewed?	✓		
2. Have the design basis documents been reviewed?	✓		
3. Have the site as-built plans and site base map been reviewed?	✓		
4. Have the previous inspection reports been reviewed?	✓		
a. Were anomalies or trends detected on previous inspections?		✓	
b. Was maintenance performed?	✓		Wave barriers were repaired along the southwest corner. (Jun. 25, 2007)
5. Have the site maintenance and repair records been reviewed?	✓		
a. Has site repair resulted in a change from as-built conditions?		✓	
b. Are revised as-built plans available that reflect repair changes?			N/A

C. SITE INSPECTION PREPARATION

Assemble the following, as needed, to conduct inspections:

a. Camera, film, and batteries
b. Keys to locks
c. Clipboard
d. Tape measure
e. Radio, pager, etc.
f. Previous Post-Closure Report, Inspection Checklists, repair records, and as-built plans
g. Other miscellaneous support equipment

CAU 92: AREA 6 DECON POND FACILITY, POST-CLOSURE INSPECTION CHECKLIST

D. SITE INSPECTION	YES	NO	EXPLANATION
1. Adjacent off-site features:			
a. Have there been any changes in the use of the adjacent area?		✓	
b. Are there any new roads or trails?		✓	
c. Has there been any change in the position of nearby washes?		✓	
d. Has there been lateral excursion or erosion/deposition of nearby washes?		✓	
e. Are there new drainage channels?		✓	
f. Has there been a change in the surrounding vegetation?		✓	
2. Access roads, fences, gates, and signs:			
a. Is there a break in the fence?		✓	
b. Have any posts been damaged or their anchoring weakened?		✓	
c. Does the gate show evidence of tampering or damage?		✓	
d. Was the gate locked?	✓		
e. Is there any evidence of human intrusion onto the cover?		✓	
f. Is there any evidence of large animal intrusion onto the cover?		✓	
g. Have any signs been damaged or removed? (Number of signs replaced: ___)		✓	
h. Other?		✓	
3. Monuments and other permanent features:			
a. Have survey markers, boundary monuments, or monitoring stations been disturbed?		✓	
b. Do natural processes threaten the integrity of any survey marker, boundary monument or monitoring station?		✓	
c. Is there excessive vegetation around the survey markers, boundary monuments, or monitoring stations?		✓	
d. Other?		✓	
4. Waste unit cover:			
a. Is there evidence of settling?		✓	
b. Is there evidence of cracking?		✓	
c. Is there evidence of erosion (wind or water)?		✓	
d. Is there evidence of animal burrowing?		✓	
e. Is there vegetation growing on the cover?	✓		Noticed vegetation growth on the southwest corner of the cover and around the perimeter of the Cover.
g. Other (including trash, debris, etc within fenced area)?		✓	

CAU 92: AREA 6 DECON POND FACILITY, POST-CLOSURE INSPECTION CHECKLIST

5. Photograph Instructions:

A total of 8 photographs are required to be taken during each inspection of CAU 92. Additional photographs may also be taken. The required photographs shall be taken as follows:

- Four (4) from the center of the unit, one in each compass direction (i.e., N, S, E, W) and
- Four (4) of the unit from outside the fence, one in each compass direction.

6. Photograph Documentation:	YES	NO	EXPLANATION
a. Have all photographs required by the photograph instructions been taken?	✓		
b. Has a photograph log been prepared? (Number of photographs taken: 8)	✓		
c. Other?		✓	

E. FIELD CONCLUSIONS

1. Is there an imminent hazard to the integrity of the unit? (Immediate report required)		✓	
Person/Agency to whom report was made:			
2. Are more frequent inspections required?		✓	
3. Are existing maintenance/repair actions satisfactory?	✓		
4. Is other maintenance/repair necessary?		✓	

5. Field conclusions/recommendations: Overall site conditions were good. Signs, fencing, and the wave barriers were in great condition. There was no evidence of animal burrowing. There was an increase in vegetation growth since the last quarterly inspection (Dec. 2006). Vegetation removal is required on the southwest corner of the cover and the outside perimeter of the cover.

F. CERTIFICATION

I have conduction an inspection of CAU 92, Area 6 Decon Pond Facility, in accordance with the procedures of the Post-Closure Permit (including the Post-Closure Plan) as recorded on this checklist, attached sheets, field notes, photographs, and photograph logs.

Chief Inspector's Signature: /s/ Glenn Richardson	Date: 3/29/07
Printed Name: Glenn Richardson	Title: Task Manager

good; Aswell as the vegetative cover. Also, a large amount of animal burrows were noticedon the cover. Ecological services will be contacted to do small mammal trapping. Left CAU 110 at 10:20 AM.

10:35 AM - Arrived at CAU 92 (Decon Pond) to perform quarterly inspection. Noticed an increase in vegetation growth sience the last quarterly in Dec. 2006. Vegetation is on the southwest corner of the coverand the outside perimeter of the cover. There was no evidence of animal burrowing. Also, the signs, fencing, and wave barriers are in good condition. Left CAU 92 at 10:50 AM.

Traveled back to Mercury for lunch. We will regroup with NDEP (Ted) at 12:00 PM to perform our quarterly inspection at CAU 112.

12:03 PM - Arrived at CAU 112 (Area 23 Waste Trenches) to perform our site inspection. The signage, fencing, and monuments were in good condition. Vegetation growth was noticed in different areas on the cover. Removal is neccessary (within 60 days).

12:12 PM - End of RCRA inspections.

/s/ Glenn Richardson

SIGNATURE		DATE
/s/ Glenn Richardson		3/29/07
DISCLOSED TO AND UNDERSTOOD BY	DATE / WITNESS	DATE

RCRA Post Closure Inspections - March 29, 2007

Personnel: Glenn Richardson - NSTec Task Manager
Rob Baumert - NSTec Field Support Tech Lead

Visitors: Ted Zaferatos - NDEP
Greg Doyle - NSTec Engineering (CAU 110 Only)

Scope: Perform quarterly and semiannual post closure site inspections for the following CAUs: 91, 92, 110, and 112

9:05AM - Arrived at CAU 91 (Injection Well 4361) and prepared for the safety briefing and post closure inspection.

9:10AM - Performed the Tailgate Safety Briefing
Discussed slips/trips/falls. Discussed standard Level D PPE (safety glasses, substantial footwear, etc.)
Discussed heat stress conditions and nearest medical location.

9:15AM - Performed semiannual inspection and noticed the signs and fencing were in good condition. There was vegetation that had grown along the edge of the aboveground monument concrete pad. This will have to be removed (within 60 days) There was no evidence of burrows. Left CAU 91 at 9:25AM.

9:30AM - Arrived at CAU 110 (Area 3 WMD U-3ax/bl) to perform quarterly inspection. We discovered settling imperfections (cracks) greater than 6 in. deep that extended approx. 3-4 ft. on the northeast edge of the cover. Repairs are necessary with engineering oversight present onsite. Photos were taken. The signage and fencing looked

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Work continued to Page 157

SIGNATURE			DATE
/s/ Glenn Richardson			3/29/07
DISCLOSED TO AND UNDERSTOOD BY	DATE	WITNESS	DATE

CAU 92: AREA 6 DECON POND FACILITY, POST-CLOSURE INSPECTION CHECKLIST

Inspection Date and Time: 6/13/07 2:00PM	Reason for Inspection: Quarterly
Date of Last Post-Closure Inspection: 3/29/07	Reason for Last Post-Closure Inspection: Quarterly

Responsible Agency: National Security Technologies - Environmental Restoration

Address: Nevada Test Site, Mercury, Nevada

Responsible Agency Official: Jeffrey L. Smith, Project Manager

Chief Inspector: Glenn Richardson	Title: Task Manager	Organization: Environmental Restoration
Assistant Inspector: Kevin Olsen	Title: Deputy Field Ops Manager	Organization: Environmental Restoration

A. GENERAL INSTRUCTIONS

1. All checklist items must be completed and detailed comments made to document the results of the site inspection. The completed checklist is part of the field record of the inspection. Additional pages should be used as necessary to ensure that a complete record is made. Attach the additional pages and number all pages upon completion of the inspection.
2. Any checklist line item marked by an inspector in a SHADED BOX must be fully explained or an appropriate reference to previous reports provided. The purpose of this requirement is to provide a written explanation of inspector observations and the inspector's rationale for conclusions and recommendations. Explanations are to be placed on additional attachments and cross-referenced appropriately. Explanations, in addition to narrative, will take the form of sketches, measurements, and annotated site maps.
3. The site inspection is a walking inspection of the entire site including the perimeter and sufficient transects to be able to inspect the entire surface and all features specifically described in this checklist.
4. A standard set of color photographs is required. In addition, all anomalous features or new features (such as changes in adjacent area land use) are to be photographed. A photograph log entry will be made for each photograph taken.
5. Field notes taken to assist in completion of this checklist will become part of the inspection record. No form is specified for field notes; however, they must be legible and in sufficient detail to enable review by succeeding inspectors and the responsible agency.
6. This unit will be inspected quarterly with formal reporting to the Nevada Division of Environmental Protection to be done annually. The annual report will include an executive summary, this inspection checklist with field notes and photograph log attached, and recommendations and conclusions.

B. PREPARATION (To be competed prior to site visit)	YES	NO	EXPLANATION
1. Has the Post-Closure Permit been reviewed?	✓		
2. Have the design basis documents been reviewed?	✓		
3. Have the site as-built plans and site base map been reviewed?	✓		
4. Have the previous inspection reports been reviewed?	✓		
a. Were anomalies or trends detected on previous inspections?		✓	
b. Was maintenance performed?	✓		Vegetation growth identified on the edge of the cover during the March 2007 inspection was removed on 5/23/07.
5. Have the site maintenance and repair records been reviewed?	✓		
a. Has site repair resulted in a change from as-built conditions?		✓	
b. Are revised as-built plans available that reflect repair changes?			N/A

C. SITE INSPECTION PREPARATION

Assemble the following, as needed, to conduct inspections:

a. Camera, film, and batteries
b. Keys to locks
c. Clipboard
d. Tape measure
e. Radio, pager, etc.
f. Previous Post-Closure Report, Inspection Checklists, repair records, and as-built plans
g. Other miscellaneous support equipment

CAU 92: AREA 6 DECON POND FACILITY, POST-CLOSURE INSPECTION CHECKLIST

D. SITE INSPECTION	YES	NO	EXPLANATION
1. Adjacent off-site features:			
a. Have there been any changes in the use of the adjacent area?		✓	
b. Are there any new roads or trails?		✓	
c. Has there been any change in the position of nearby washes?		✓	
d. Has there been lateral excursion or erosion/deposition of nearby washes?		✓	
e. Are there new drainage channels?		✓	
f. Has there been a change in the surrounding vegetation?		✓	
2. Access roads, fences, gates, and signs:			
a. Is there a break in the fence?		✓	
b. Have any posts been damaged or their anchoring weakened?		✓	
c. Does the gate show evidence of tampering or damage?		✓	
d. Was the gate locked?	✓		
e. Is there any evidence of human intrusion onto the cover?		✓	
f. Is there any evidence of large animal intrusion onto the cover?		✓	
g. Have any signs been damaged or removed? (Number of signs replaced: ___)		✓	
h. Other?		✓	
3. Monuments and other permanent features:			
a. Have survey markers, boundary monuments, or monitoring stations been disturbed?		✓	
b. Do natural processes threaten the integrity of any survey marker, boundary monument or monitoring station?		✓	
c. Is there excessive vegetation around the survey markers, boundary monuments, or monitoring stations?		✓	
d. Other?			N/A
4. Waste unit cover:			
a. Is there evidence of settling?		✓	
b. Is there evidence of cracking?		✓	
c. Is there evidence of erosion (wind or water)?		✓	
d. Is there evidence of animal burrowing?		✓	
e. Is there vegetation growing on the cover?		✓	
g. Other (including trash, debris, etc within fenced area)?		✓	

CAU 92: AREA 6 DECON POND FACILITY, POST-CLOSURE INSPECTION CHECKLIST

5. Photograph Instructions:

A total of 8 photographs are required to be taken during each inspection of CAU 92. Additional photographs may also be taken. The required photographs shall be taken as follows:

- Four (4) from the center of the unit, one in each compass direction (i.e., N, S, E, W) and
- Four (4) of the unit from outside the fence, one in each compass direction.

6. Photograph Documentation:	YES	NO	EXPLANATION
a. Have all photographs required by the photograph instructions been taken?	✓		
b. Has a photograph log been prepared? (Number of photographs taken: 8)	✓		
c. Other?		✓	

E. FIELD CONCLUSIONS

1. Is there an imminent hazard to the integrity of the unit? (Immediate report required)		✓	
Person/Agency to whom report was made:			
2. Are more frequent inspections required?		✓	
3. Are existing maintenance/repair actions satisfactory?	✓		
4. Is other maintenance/repair necessary?		✓	

5. Field conclusions/recommendations: The chain link fencing and use restriction signage are in good condition. There were no signs of animal intrusion on the cover. Since the vegetation growth noticed on the outside perimeter of the cover was removed in May 2007, there were no new signs of growth. Also, the wave barriers did not appear to be damaged and were in good condition.

F. CERTIFICATION

I have conduction an inspection of CAU 92, Area 6 Decon Pond Facility, in accordance with the procedures of the Post-Closure Permit (including the Post-Closure Plan) as recorded on this checklist, attached sheets, field notes, photographs, and photograph logs.

Chief Inspector's Signature: /s/ Glenn Richardson	Date: 6/13/07
Printed Name: Glenn Richardson	Title: Task Manager

RCRA Post Closure Inspections - June 13, 2007

Scope:
Perform semi-annual inspection of CAU 90 and quarterly inspections for CAUs 92 and 112.
CAU 110 was already inspected on June 4, 2007 in conjunction with the Compliance Evaluation Inspection w/ NNSA & NDEP.
CAU 91 does not require an inspection at this time.

Personnel: Glenn Richardson - NSTec Task Manager
Kevin Olsen - NSTec Deputy** Field Ops Manager
Visitors: None
Equipment: Digital Camera
Weather: Very Sunny, Hot - Over 95°F

RCRA inspections were originally planned for the morning of 6/13/07; however, they were performed in the afternoon.

1:15 PM - Arrived at CAU 90 - Bitcutter Containment site.
Performed a Tailgate Safety Briefing. We discussed the following:
- Heat stress conditions
- Slips / trips / fall hazards
- Biological hazards

1:19 PM - Performed inspection of chain-link fencing, signage, and looked for signs of animal intrusion. Overall site conditions were excellent. Photo documentation was taken. There are no follow-up actions required at this site.

1:40 PM - Completed the CAU 90 inspection, heading to CAU 92.

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Work continued to Page 17

SIGNATURE		DATE
	/s/ Glenn Richardson	6/13/07

DISCLOSED TO AND UNDERSTOOD BY	DATE	WITNESS	DATE

2:00 PM - Arrived at CAU 92 - Decon Pond (Area 6)
Performed our inspection of the fencing, signage, surface monuments, and verified evidence of any new vegetation. Since the vegetation along the outter edge of the cover was removed in May 2007, there were no signs of new vegetation growth. The wave barriers were in great condition and did not appear damaged. Photo documentation was taken. Overall site conditions were good to warrant no follow-up actions.

2:28 PM - Completed inspection at CAU 92, heading to CAU 112.

3:00 PM - Arrived at CAU 112 - Area 23 Waste Trenches
Performed drive-around inspection
Verified that there was no evidence of new vegetation on or along the side slope of the cover. The signage, fencing, and aboveground monuments were in good condition. There were no issues or concerns at this site. Photos are not required.

3:15 PM - Completed RCRA inspections on June 13, 2007.

/s/ Glenn Richardson

SIGNATURE /s/ Glenn Richardson			DATE 6/13/07
DISCLOSED TO AND UNDERSTOOD BY	DATE	WITNESS	DATE

Inspection Requirements:
(1) Quarterly, or
(2) Rain Event of >0.5 inches in 24 hours

POST-CLOSURE INSPECTION CHECKLIST

CAU 92: AREA 6 DECON POND FACILITY - CAS 06-05-02: Decontamination Pond (RCRA)

Inspection Date and Time: 9/24/07 4:00PM	Reason for Inspection: Rain Event was >.5 inches in 24 hrs.
Date of Last Post-Closure Inspection: 6/13/07	Reason for Last Post-Closure Inspection: Quarterly
Date of Last Rain Event: 3/28/06	Quantity of Rainfall in that event: Approx. 1 inch

Responsible Entity: NSTec Environmental Restoration, Nevada Test Site, Mercury, Nevada

Responsible Facility Owner: Jeffrey L. Smith, Deputy Manager, Environmental Restoration

Chief Inspector: Glenn Richardson	Title: Task Manager	Organization: Environmental Restoration
Assistant Inspector: Greg Doyle	Title: Engineering Geologist	Organization: Environmental Restoration

A. GENERAL INSTRUCTIONS

1. All checklist items must be completed, including detailed comments to document the results of the site inspection. The completed checklist is part of the field record of the inspection. Additional pages should be used as necessary to ensure that a complete record is made. Attach the additional pages and number all pages upon completion of the inspection.
2. Any checklist line item marked in a SHADED BOX must be fully explained or an appropriate reference to previous reports provided. The purpose of this requirement is to provide a written explanation of inspector's and the rationale for conclusions and recommendations. Explanations are to be placed on additional attachments and cross-referenced appropriately. Explanations, in addition to narrative, will take the form of sketches, measurements, and annotated site maps.
3. The site inspection is a walking inspection of the entire site. This includes the perimeter and sufficient transects to be able to inspect the entire surface and all features specifically described in this checklist.
4. A standard set of color photographs is required. In addition, all anomalous features or new features (such as changes in adjacent area land use) are to be photographed. A photograph log will be completed, and an entry will be made for each photograph taken.
5. Field notes taken to assist in completion of this checklist will become part of the inspection record. No form is specified for field notes; however, they must be legible and in sufficient detail to enable review by succeeding inspectors and the responsible agency.
6. This unit will be inspected quarterly, with a formal report provided to the Nevada Division of Environmental Protection annually. The annual report will include an executive summary; this inspection checklist with field notes, photographs, and photograph log; and conclusions and recommendations.

B. PREPARATION (To be competed prior to site visit)	YES	NO	EXPLANATION (required if shaded box is checked)
1. Has the Post-Closure Permit been reviewed?	✓		
2. Has the Post-Closure Permit application been reviewed?	✓		
3. Has the Post-Closure Plan been reviewed?	✓		
4. Have the site as-built plans and site base map been reviewed?	✓		
5. Have the previous inspection reports been reviewed?	✓		
a. Were anomalies or trends detected on previous inspections?		✓	
b. Was maintenance performed?		✓	
If maintenance was performed, has a copy of the maintenance records been obtained?			NA ✓
6. Have the site maintenance and repair records been reviewed?	✓		
a. If so, has site repair resulted in a change from as-built conditions?			NA ✓
b. If yes (to 6a), are revised as-built plans available that reflect repair changes?			NA ✓

Inspection Requirements:
(1) Quarterly, or
(2) Rain Event of >0.5 inches in 24 hours

POST-CLOSURE INSPECTION CHECKLIST

CAU 92: AREA 6 DECON POND FACILITY - CAS 06-05-02: Decontamination Pond (RCRA)

C. SITE INSPECTION PREPARATION

Assemble the following, as needed, to conduct inspections:
a. Camera, film, and batteries
b. Keys to locks
c. Clipboard
d. Tape measure
e. Radio, pager, etc.
f. Previous Post-Closure Report, Inspection Checklists, repair records, and as-built plans
g. Other miscellaneous support equipment

D. SITE INSPECTION

1. Adjacent off-site features:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Are there any new activities or features on Yucca Lake that could potentially affect the site (e.g., activities that change the flow of surface water or are encroaching the unit)?		✓	

2. Fencing, gates, and signs:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Is there damage to or a break in the fence?		✓	
b. Have any fenceposts been damaged or their anchoring weakened?		✓	
c. Are any of the use restriction signs damaged or missing?		✓	
d. Are all use restriction signs legible?	✓		
e. How many use restriction signs need to be replaced?	0		
f. Are any of the URMA signs damaged or missing?		✓	
g. Are all URMA signs legible?	✓		
h. How many URMA signs need to be replaced?	0		
i. Is the gate intact and functional?	✓		
j. Does the gate show evidence of tampering or damage?		✓	
k. Was the gate locked?	✓		
l. Does the wave barrier require repair?		✓	
m. Is there standing water within or at the fenceline?	✓		Standing water was noticed inside the NE corner of the fence line, but no standing water on the actual cover.
If yes, what is the playa water elevation, as measured on the depth gauge attached to the fence perimeter?			Approx. 0.5" of rainfall recorded on 9/21 during hour 16:00 Approx. 2.0" of rainfall recorded on 9/21 during 22:00–24:00 h
n. Other?			NA ✓

3. Waste unit cover:	YES	NO	EXPLANATION (Required if shaded box is checked. If checked, specify dimensions, quantity, and/or other information to describe conditions.)
a. Is there evidence of settling?		✓	
b. Is there evidence of cracking?		✓	

Inspection Requirements:
(1) Quarterly, or
(2) Rain Event of >0.5 inches in 24 hours

POST-CLOSURE INSPECTION CHECKLIST

CAU 92: AREA 6 DECON POND FACILITY - CAS 06-05-02: Decontamination Pond (RCRA)

3. Waste unit cover (continued):	YES	NO	EXPLANATION (Required if shaded box is checked. If checked, specify dimensions, quantity, and/or other information to describe conditions.)
c. Is there evidence of erosion (wind or water)?		✓	
d. Is there evidence of human intrusion onto the cover?		✓	
e. Is there evidence of large animal intrusion onto the cover?		✓	
f. Is there evidence of animal burrowing?		✓	
g. Is vegetation growing on the cover?		✓	Vegetation growth was noticed on east edge of cover, but not on actual cover. North side was not accessible.
h. Other (including trash, debris, etc within fenced area)?			NA ✓

4. Subsidence survey markers:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Have any of the 5 subsidence survey markers been disturbed?		✓	
b. Do natural processes threaten the integrity of any subsidence survey marker?		✓	
c. Is there excessive vegetation around the subsidence survey markers?		✓	
d. Other?			NA ✓

5. Photograph Instructions:

A total of 8 photographs must be taken during each inspection of CAU 92. Additional photographs may also be taken. The required photographs shall be taken as follows:

- Four (4) from the center of the unit, one in each compass direction (i.e., N, S, E, W) and
- Four (4) of the unit from outside the fence, one in each compass direction.

6. Photograph Documentation:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Have all photographs been taken as required by the photograph instructions?		✓	Photographs were not taken for rainfall event. Photographs will be taken during quarterly inspection.
b. Has a photograph log been prepared?		✓	Log number:
c. How many photographs were taken?	0		
d. Other?			NA ✓

E. FIELD CONCLUSIONS	YES	NO	EXPLANATION (required if shaded box is checked)
1. Are more frequent inspections required?		✓	
2. Are existing maintenance/repair actions satisfactory?	✓		
3. Is other maintenance/repair necessary?		✓	
4. Is there an imminent hazard to the integrity of the site? (Immediate report required)		✓	

Date reported: _____

Person/Agency to whom report was made:

Inspection Requirements:
(1) Quarterly, or
(2) Rain Event of >0.5 inches in 24 hours

POST-CLOSURE INSPECTION CHECKLIST

CAU 92: AREA 6 DECON POND FACILITY - CAS 06-05-02: Decontamination Pond (RCRA)

5. Field conclusions/recommendations: Due to a significant rain event on 9/21/07, our precipitation regulatory limit of 1.28cm (.5in) was exceeded within a 24hr period. As a result, a visual inspection was performed on 9/24/07. There were no significant changes to the cover. Standing water was noticed inside the NE corner of the fence line; however no standing water was observed on the actual cover. The wave barriers and perimeter fencing were in good condition. Also, there was no damage to warning signs or the entrance gate.

F. CERTIFICATION

I have conducted an inspection of CAU 92, Area 6 Decon Pond Facility, in accordance with the procedures of the Post-Closure Permit (including the Post-Closure Plan) as recorded on this checklist, attached sheets, field notes, photographs, and photograph logs.

Chief Inspector's Signature: /s/ Glenn Richardson	Date: 9/24/07
Printed Name: Glenn Richardson	Title: Task Manager

Attachments (check if attached):

- ☐ Field Notes
- ☐ Photos
- ☐ Maintenance records

Richardson, Glenn

From: Richardson, Glenn
Sent: Wednesday, September 26, 2007 11:06 AM
To: Curtis, Sabine T. (NNSA)
Cc: Primrose, Annette; Smith, Jeff (ER); Thiele, Thomas
Subject: CAU 92 Decon Pond Precip Inspection

Sabine,

Last Friday, 9/21/07, we exceeded our precipitation regulatory limit of 1.28 cm (0.50 in) within a 24-hour period at the Area 6 Decon Pond. We received approximately 3 inches of precipitation which requires a site inspection per our RCRA Part B post closure requirements.

Friday, 09/21: Approximately 0.5" of rainfall recorded during hour 16:00
Approximately 2.0" of rainfall recorded during 22:00 – 24:00 hours

A visual inspection was performed on Monday, 9/24/07 which included NSTec Engineering, ER Safety, and Construction to verify the integrity of the cover was not compromised and to ensure that we are still in compliance with the grade and design specifications for the cover. There were no significant changes to the cover as a result of the precipitation. Standing water was noticed inside the northeast corner of the fence line; however no standing water was observed on the actual cover. The wave barriers and perimeter fencing were in good condition. Also, there was no damage to warning signs or the entrance gate. The site was well secured and in good condition as we left the site.

Should any questions arise, please let me know.

Thanks,

Glenn Richardson
NSTec – Environmental Restoration
Office: 5-5361
Pager: 794-6750

Inspection Requirements:
(1) Quarterly or
(2) Rain Event of >0.5 inches in 24 hours

POST-CLOSURE INSPECTION CHECKLIST

CAU 92: AREA 6 DECON POND FACILITY - CAS 06-05-02: Decontamination Pond (RCRA)

Inspection Date and Time: 9/27/07 11:12AM	Reason for Inspection: Quarterly
Date of Last Post-Closure Inspection: 6/13/07	Reason for Last Post-Closure Inspection: Quarterly
Date of Last Rain Event: 9/21/07	Quantity of Rainfall in that event: Approx. 3 inches

Responsible Entity: NSTec Environmental Restoration, Nevada Test Site, Mercury, Nevada

Responsible Facility Owner: Jeffrey L. Smith, Deputy Manager, Environmental Restoration

Chief Inspector: Glenn Richardson	Title: Task Manager	Organization: Environmental Restoration
Assistant Inspector: Mario Vasquez	Title: ER Safety	Organization: Environmental Restoration

A. GENERAL INSTRUCTIONS

1. All checklist items must be completed, including detailed comments to document the results of the site inspection. The completed checklist is part of the field record of the inspection. Additional pages should be used as necessary to ensure that a complete record is made. Attach the additional pages and number all pages upon completion of the inspection.
2. Any checklist line item marked in a SHADED BOX must be fully explained or an appropriate reference to previous reports provided. The purpose of this requirement is to provide a written explanation of inspector's and the rationale for conclusions and recommendations. Explanations are to be placed on additional attachments and cross-referenced appropriately. Explanations, in addition to narrative, will take the form of sketches, measurements, and annotated site maps.
3. The site inspection is a walking inspection of the entire site. This includes the perimeter and sufficient transects to be able to inspect the entire surface and all features specifically described in this checklist.
4. A standard set of color photographs is required. In addition, all anomalous features or new features (such as changes in adjacent area land use) are to be photographed. A photograph log will be completed, and an entry will be made for each photograph taken.
5. Field notes taken to assist in completion of this checklist will become part of the inspection record. No form is specified for field notes; however, they must be legible and in sufficient detail to enable review by succeeding inspectors and the responsible agency.
6. This unit will be inspected quarterly, with a formal report provided to the Nevada Division of Environmental Protection annually. The annual report will include an executive summary; this inspection checklist with field notes, photographs, and photograph log; and conclusions and recommendations.

B. **PREPARATION** (To be competed prior to site visit)	YES	NO	EXPLANATION (required if shaded box is checked)
1. Has the Post-Closure Permit been reviewed?	✓		
2. Has the Post-Closure Permit application been reviewed?	✓		
3. Has the Post-Closure Plan been reviewed?	✓		
4. Have the site as-built plans and site base map been reviewed?	✓		
5. Have the previous inspection reports been reviewed?	✓		
a. Were anomalies or trends detected on previous inspections?		✓	
b. Was maintenance performed?	✓		Vegetation removal activities were completed on 5/23/07 as a result of the last inspection.
If maintenance was performed, has a copy of the maintenance records been obtained?			NA ✓
6. Have the site maintenance and repair records been reviewed?	✓		
a. If so, has site repair resulted in a change from as-built conditions?			NA ✓
b. If yes (to 6a), are revised as-built plans available that reflect repair changes?			NA ✓

Inspection Requirements:
(1) Quarterly, or
(2) Rain Event of >0.5 inches in 24 hours

POST-CLOSURE INSPECTION CHECKLIST

CAU 92: AREA 6 DECON POND FACILITY - CAS 06-05-02: Decontamination Pond (RCRA)

C. SITE INSPECTION PREPARATION

Assemble the following, as needed, to conduct inspections:
a. Camera, film, and batteries
b. Keys to locks
c. Clipboard
d. Tape measure
e. Radio, pager, etc.
f. Previous Post-Closure Report, Inspection Checklists, repair records, and as-built plans
g. Other miscellaneous support equipment

D. SITE INSPECTION

1. Adjacent off-site features:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Are there any new activities or features on Yucca Lake that could potentially affect the site (e.g., activities that change the flow of surface water or are encroaching the unit)?		✓	

2. Fencing, gates, and signs:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Is there damage to or a break in the fence?		✓	
b. Have any fenceposts been damaged or their anchoring weakened?		✓	
c. Are any of the use restriction signs damaged or missing?		✓	
d. Are all use restriction signs legible?	✓		
e. How many use restriction signs need to be replaced?	0		
f. Are any of the URMA signs damaged or missing?		✓	
g. Are all URMA signs legible?	✓		
h. How many URMA signs need to be replaced?	0		
i. Is the gate intact and functional?	✓		
j. Does the gate show evidence of tampering or damage?		✓	
k. Was the gate locked?	✓		
l. Does the wave barrier require repair?		✓	
m. Is there standing water within or at the fenceline?		✓	
If yes, what is the playa water elevation, as measured on the depth gauge attached to the fence perimeter?			
n. Other?			NA ✓

3. Waste unit cover:	YES	NO	EXPLANATION (Required if shaded box is checked. If checked, specify dimensions, quantity, and/or other information to describe conditions.)
a. Is there evidence of settling?		✓	
b. Is there evidence of cracking?		✓	

Inspection Requirements:
(1) Quarterly or
(2) Rain Event of >0.5 inches in 24 hours

POST-CLOSURE INSPECTION CHECKLIST

CAU 92: AREA 6 DECON POND FACILITY - CAS 06-05-02: Decontamination Pond (RCRA)

3. Waste unit cover (continued):	YES	NO	EXPLANATION (Required if shaded box is checked. If checked, specify dimensions, quantity, and/or other information to describe conditions.)
c. Is there evidence of erosion (wind or water)?		✓	
d. Is there evidence of human intrusion onto the cover?		✓	
e. Is there evidence of large animal intrusion onto the cover?		✓	
f. Is there evidence of animal burrowing?		✓	
g. Is vegetation growing on the cover?		✓	There was an increase in vegetation growth on the north & east edge of the cover since the last inspect.
h. Other (including trash, debris, etc within fenced area)?		✓	NA

4. Subsidence survey markers:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Have any of the 5 subsidence survey markers been disturbed?		✓	
b. Do natural processes threaten the integrity of any subsidence survey marker?		✓	
c. Is there excessive vegetation around the subsidence survey markers?		✓	
d. Other?			NA ✓

5. Photograph Instructions:

A total of 8 photographs must be taken during each inspection of CAU 92. Additional photographs may also be taken. The required photographs shall be taken as follows:

- Four (4) from the center of the unit, one in each compass direction (i.e., N, S, E, W) and
- Four (4) of the unit from outside the fence, one in each compass direction.

6. Photograph Documentation:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Have all photographs been taken as required by the photograph instructions?	✓		
b. Has a photograph log been prepared?	✓		Log number:
c. How many photographs were taken?	10		
d. Other?			NA ✓

E. FIELD CONCLUSIONS	YES	NO	EXPLANATION (required if shaded box is checked)
1. Are more frequent inspections required?		✓	
2. Are existing maintenance/repair actions satisfactory?	✓		
3. Is other maintenance/repair necessary?	✓		Vegetation removal on the north & east edge of the cover is necessary within 60 days.
4. Is there an imminent hazard to the integrity of the site? (Immediate report required)		✓	

Date reported: _____

Person/Agency to whom report was made:

Inspection Requirements:
(1) (Quarterly) or
(2) Rain Event of >0.5 inches in 24 hours

POST-CLOSURE INSPECTION CHECKLIST

CAU 92: AREA 6 DECON POND FACILITY - CAS 06-05-02: Decontamination Pond (RCRA)

5. Field conclusions/recommendations: The signs, fencing, and wave barriers were in good condition. There was no evidence of animal burrowing. However, there was an increase in vegetation growth on the north & east edge of the cover that requires removal. Vegetation removal will be completed within 60 days.

F. CERTIFICATION

I have conducted an inspection of CAU 92, Area 6 Decon Pond Facility, in accordance with the procedures of the Post-Closure Permit (including the Post-Closure Plan) as recorded on this checklist, attached sheets, field notes, photographs, and photograph logs.

Chief Inspector's Signature: /s/ Glenn Richardson	Date: 9/27/07
Printed Name: Glenn Richardson	Title: Task Manager

Attachments (check if attached):

- ☑ Field Notes
- ☐ Photos
- ☐ Maintenance records

RCRA Post Closure Inspections - September 27, 2007

Personnel: Glenn Richardson - NSTec Task Manager
Mario Vasquez - NSTec ER Safety
Visitors: Ted Zaferatos - NDEP
Greg Doyle - NSTec Engineering Geologist
Scope: Perform quarterly and semiannual post closure site inspections for the following CAUs: 91, 92, 110, and 112.

Equipment: Camera
Weather Conditions: Clear Skies, Partly Sunny, 72°
PPE: Standard Level D (hard hats are optional)

Photo Log - RCRA Sites

CAU 91: ① Photos taken inside Perimeter Fence - Facing: North, South, East, West
② Photos taken North & South direction inside Perimeter Fence
③ Photos taken outside Perimeter Fence - Facing: North, West, South, East

CAU 110: ④ Photos taken Outside Perimeter Fence - Facing: North, West, South, East
⑤ Photos taken Inside Perimeter Fence - Facing: North, East, South, West

Cont. on Pg. 167 →

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Work continued to Page 167

SIGNATURE /s/ Glenn Richardson
DATE 9/27/07

ork continued from Page 166

CAU 92: (6) Photos taken Inside Perimeter Fence - Facing: North
South
East
West

(7) Photos taken Outside Perimeter Fence - Facing: North (2 pics)
West (2 pics.)
South (1 pic.)
East (1 pic.)

8:35AM - Left Mercury in route to the Area 3 U-3fi Injection Well (CAU 91).

9:18AM - Arrived at CAU 91 U3fi Injection Well.
Tailgate Safety Briefing was held w/ NDEP.
- We discussed slips/trips/falls. Buddy system when walking around RCRA sites.
- We discussed biological hazards and always stay hydrated with water
- especially in heat stress conditions.
- Nearest medical is in Area 6 or Area 23.

9:42AM - Performed site inspection of CAU 91. There was no evidence of vegetation growth or animal burrows inside of the fenced area. Also, the signage and fencing were in good condition. Photo documentation of the site was taken. There are no issues or concerns. Left site heading to CAU 110.

9:49AM - Arrived at CAU 110 Area 3 WMD U3ax/bl crater and took photos.

10:38AM - Performed site inspection of CAU 110. Greg Doyle met us at the site and participated in the inspection. We noticed minor evidence of animal burrows, but nothing significant to warrant a corrective action. As we approached the east portion of the vegetative cover ("bl"), we noticed cracks in two major areas. Cracks that were greater than 6 in. deep and extended horizontally on the surface from 3-4 ft. were discovered on the south edge (near TDR unit) and east edge of the

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Work continued to Page 168

SIGNATURE /s/ Glenn Richardson
DATE 9/27/07

RCRA Inspections Cont.

cover. Notification is required to NNSA and subsidence repairs are required within 60 days. The UR signage and fencing are in good condition. Also, we discovered a uniquely tall shrub that had grown on the northeast side of the cover. The shrub is about 3-3½ ft. tall. D. Anderson will be contacted as a BMP to determine if the shrub needs to be cut. Photo documentation was taken to confirm the two subsidence features. After taking photos, we (NSTec) discussed our observations with NDEP and departed the site heading to CAU 92. Greg Doyle returned to Mercury.

10:53 AM - Arrived at CAU 92 - Area 6 Decon Pond Facility

11:12 AM - Performed site inspection of CAU 92. The UR signs, fencing, and wave barriers were in excellent condition. The standing water in the NE corner, originally identified during the precipitation event on 9/24/07, had evaporated. The waste unit cover did not shows signs of animal intrusion. The vegetation growth on the north and east edge of the cover had matured since the last removal activity in May 2007. As a result, vegetation removal activities are necessary within 60 days. Photo documentation was taken before exiting the site.

11:52 AM - Arrived at CAU 112 - Area 23 Hazardous Waste Trenches

12:04 PM - Performed drive-by site inspection of CAU 112. The signage, fencing, and aboveground monuments were in great condition. Also, there was no evidence of vegetation growth on the cover. This site had no issues or concerns. We left the site at 12:08 PM. NDEP headed back to LV office.

10-End of RCRA Inspections

/s/ Glenn Richardson

Inspection Requirements:
(1) Quarterly, or
(2) Rain Event of >0.5 inches in 24 hours

POST-CLOSURE INSPECTION CHECKLIST

CAU 92: AREA 6 DECON POND FACILITY - CAS 06-05-02: Decontamination Pond (RCRA)

Inspection Date and Time: 12/11/07 13:07	Reason for Inspection: Precipitation Event >.5"
Date of Last Post-Closure Inspection: 9/27/07	Reason for Last Post-Closure Inspection: Quarterly
Date of Last Rain Event: 12/8/07 07:30	Quantity of Rainfall in that event: 0.68 inches

Responsible Entity: NSTec Environmental Restoration, Nevada Test Site, Mercury, Nevada

Responsible Facility Owner: Jeffrey L. Smith, Deputy Manager, Environmental Restoration

Chief Inspector: [illegible]	Title: Sr Scientist	Organization: Environmental Restoration
Assistant Inspector: Glenn Richards	Title: Task Manager	Organization: Environmental Restoration

A. GENERAL INSTRUCTIONS

1. All checklist items must be completed, including detailed comments to document the results of the site inspection. The completed checklist is part of the field record of the inspection. Additional pages should be used as necessary to ensure that a complete record is made. Attach the additional pages and number all pages upon completion of the inspection.
2. Any checklist line item marked in a SHADED BOX must be fully explained or an appropriate reference to previous reports provided. The purpose of this requirement is to provide a written explanation of inspector's and the rationale for conclusions and recommendations. Explanations are to be placed on additional attachments and cross-referenced appropriately. Explanations, in addition to narrative, will take the form of sketches, measurements, and annotated site maps.
3. The site inspection is a walking inspection of the entire site. This includes the perimeter and sufficient transects to be able to inspect the entire surface and all features specifically described in this checklist.
4. A standard set of color photographs is required. In addition, all anomalous features or new features (such as changes in adjacent area land use) are to be photographed. A photograph log will be completed, and an entry will be made for each photograph taken.
5. Field notes taken to assist in completion of this checklist will become part of the inspection record. No form is specified for field notes; however, they must be legible and in sufficient detail to enable review by succeeding inspectors and the responsible agency.
6. This unit will be inspected quarterly, with a formal report provided to the Nevada Division of Environmental Protection annually. The annual report will include an executive summary; this inspection checklist with field notes, photographs, and photograph log; and conclusions and recommendations.

B. PREPARATION (To be competed prior to site visit)	YES	NO	EXPLANATION (required if shaded box is checked)
1. Has the Post-Closure Permit been reviewed?	✓		
2. Has the Post-Closure Permit application been reviewed?	✓		
3. Has the Post-Closure Plan been reviewed?	✓		
4. Have the site as-built plans and site base map been reviewed?	✓		
5. Have the previous inspection reports been reviewed?	✓		
a. Were anomalies or trends detected on previous inspections?	✓		e.g. on last report
b. Was maintenance performed?	✓		Vegetation removed
If maintenance was performed, has a copy of the maintenance records been obtained?	✓		NA
6. Have the site maintenance and repair records been reviewed?	✓		
a. If so, has site repair resulted in a change from as-built conditions?			NA ✓
b. If yes (to 6a), are revised as-built plans available that reflect repair changes?			NA ✓

Inspection Requirements:
(1) Quarterly, or
(2) Rain Event of >0.5 inches in 24 hours

POST-CLOSURE INSPECTION CHECKLIST

CAU 92: AREA 6 DECON POND FACILITY - CAS 06-05-02: Decontamination Pond (RCRA)

C. SITE INSPECTION PREPARATION

Assemble the following, as needed, to conduct inspections:
a. Camera, film, and batteries
b. Keys to locks
c. Clipboard
d. Tape measure
e. Radio, pager, etc.
f. Previous Post-Closure Report, Inspection Checklists, repair records, and as-built plans
g. Other miscellaneous support equipment

D. SITE INSPECTION

1. Adjacent off-site features:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Are there any new activities or features on Yucca Lake that could potentially affect the site (e.g., activities that change the flow of surface water or are encroaching the unit)?		✓	
2. Fencing, gates, and signs:	**YES**	**NO**	**EXPLANATION (required if shaded box is checked)**
a. Is there damage to or a break in the fence?		✓	
b. Have any fenceposts been damaged or their anchoring weakened?		✓	
c. Are any of the use restriction signs damaged or missing?		✓	
d. Are all use restriction signs legible?	✓		
e. How many use restriction signs need to be replaced?	0		
f. Are any of the URMA signs damaged or missing?		✓	
g. Are all URMA signs legible?	✓		
h. How many URMA signs need to be replaced?	0		
i. Is the gate intact and functional?	✓		
j. Does the gate show evidence of tampering or damage?		✓	
k. Was the gate locked?	✓		
l. Does the wave barrier require repair?		✓	
m. Is there standing water within or at the fenceline?	✓		Small pool of water on Decon portion of Fence line - Not on Pond
If yes, what is the playa water elevation, as measured on the depth gauge attached to the fence perimeter?	N/A		
n. Other?			NA ✓
3. Waste unit cover:	**YES**	**NO**	**EXPLANATION** - Required if shaded box is checked. If checked, specify dimensions, quantity, and/or other information to describe conditions.
a. Is there evidence of settling?		✓	
b. Is there evidence of cracking?		✓	

Inspection Requirements:

Inspection Requirements:
(1) Quarterly, or
(2) Rain Event of >0.5 inches in 24 hours

POST-CLOSURE INSPECTION CHECKLIST

CAU 92: AREA 6 DECON POND FACILITY - CAS 06-05-02: Decontamination Pond (RCRA)

3. Waste unit cover (continued):	YES	NO	EXPLANATION (Required if shaded box is checked. If checked, specify dimensions, quantity, and/or other information to describe conditions.)
e. Is there evidence of erosion (wind or water)?		✓	
d. Is there evidence of human intrusion onto the cover?		✓	
e. Is there evidence of large animal intrusion onto the cover?		✓	
f. Is there evidence of animal burrowing?		✓	
g. Is vegetation growing on the cover?		✓	
h. Other (including trash, debris, etc within fenced area)?		✓	NA

4. Subsidence survey markers:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Have any of the 5 subsidence survey markers been disturbed?		✓	
b. Do natural processes threaten the integrity of any subsidence survey marker?		✓	
c. Is there excessive vegetation around the subsidence survey markers?		✓	
d. Other?			NA ✓

5 Photograph Instructions:

A total of 8 photographs must be taken during each inspection of CAU 92. Additional photographs may also be taken. The required photographs shall be taken as follows:

- Four (4) from the center of the unit, one in each compass direction (i.e., N, S, E, W) and
- Four (4) of the unit from outside the fence, one in each compass direction.

6. Photograph Documentation:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Have all photographs been taken as required by the photograph instructions?		✓	Not Required Per Permit Doc
b. Has a photograph log been prepared?			Log number:
c. How many photographs were taken?			
d. Other?			NA ✓

E. FIELD CONCLUSIONS	YES	NO	EXPLANATION (required if shaded box is checked)
1. Are more frequent inspections required?		✓	
2. Are existing maintenance/repair actions satisfactory?	✓		
3. Is other maintenance/repair necessary?		✓	
4. Is there an imminent hazard to the integrity of the site? (Immediate report required)		✓	

Date reported: _____

Person/Agency to whom report was made:

Inspection Requirements:
(1) Quarterly, or
(2) Rain Event of >0.5 inches in 24 hours

POST-CLOSURE INSPECTION CHECKLIST

CAU 92: AREA 6 DECON POND FACILITY - CAS 06-05-02: Decontamination Pond (RCRA)

5. Field conclusions/recommendations: No evidence of slope regression since previous event.
No evidence of water running into 30' of closure.
Closure is in good repair with no issues related to precipitation event.

F. CERTIFICATION

I have conducted an inspection of CAU 92, Area 6 Decon Pond Facility, in accordance with the procedures of the Post-Closure Permit (including the Post-Closure Plan) as recorded on this checklist, attached sheets, field notes, photographs, and photograph logs.

Chief Inspector's Signature: /s/ Dudley Emer	Date: 10/11/2017
Printed Name: Dudley Emer	Title: S. Scientist

Attachments (check if attached):

- ☑ Field Notes
- ☐ Photos
- ☐ Maintenance records

(CAU 92) Area 6 Decon Pond Precipitation Inspection 12/11/07

Scope:

Arrived @ 1:07 PM to inspect level of precipitation on the waste unit cover. Received an e-mail notification from the UCC MEDA Station that the level of precipitation exceeded our regulatory threshold of 0.5 in. on 12/8/07 (Saturday). The precipitation event reached a level of 0.8 in.

Personnel: Glenn Richardson, Task Manager Equipment: Camera, Radio
Dudley Emer, Sr. Scientist

Performed a site walkdown around the Decon Pond fenced area. Noticed standing water inside the NE corner of the fenced area, but was not observed on the waste unit cover. The fencing and UR signage is in good condition. Also, the wave barriers are not damaged and appear to be maintaining their stability. The site is in great condition and was not adversely affected by the precipitation event. There are no issues or concerns associated with this site. Leaving the site at 1:23 PM

/s/ Glenn Richardson

SIGNATURE			DATE
DISCLOSED TO AND UNDERSTOOD BY	DATE	WITNESS	DATE

Inspection Requirements:
(1) Quarterly, or
(2) Rain Event of >0.5 inches in 24 hours

POST-CLOSURE INSPECTION CHECKLIST

CAU 92: AREA 6 DECON POND FACILITY - CAS 06-05-02: Decontamination Pond (RCRA)

Inspection Date and Time: 12/18/07	Reason for Inspection: Quarterly
Date of Last Post-Closure Inspection: 12/11/07 Precip	Reason for Last Post-Closure Inspection: Precip 12/11/07
Date of Last Rain Event: 12/08/07	Quantity of Rainfall in that event: .66 inches

Responsible Entity: NSTec Environmental Restoration, Nevada Test Site, Mercury, Nevada

Responsible Facility Owner: Jeffrey L. Smith, Deputy Manager, Environmental Restoration

Chief Inspector: Glenn Richardson	Title: Task Manager	Organization: Environmental Restoration
Assistant Inspector: Dudley Emer	Title: Sr. Scientist	Organization: Environmental Restoration

A. GENERAL INSTRUCTIONS

1. All checklist items must be completed, including detailed comments to document the results of the site inspection. The completed checklist is part of the field record of the inspection. Additional pages should be used as necessary to ensure that a complete record is made. Attach the additional pages and number all pages upon completion of the inspection.
2. Any checklist line item marked in a SHADED BOX must be fully explained or an appropriate reference to previous reports provided. The purpose of this requirement is to provide a written explanation of inspector's and the rationale for conclusions and recommendations. Explanations are to be placed on additional attachments and cross-referenced appropriately. Explanations, in addition to narrative, will take the form of sketches, measurements, and annotated site maps.
3. The site inspection is a walking inspection of the entire site. This includes the perimeter and sufficient transects to be able to inspect the entire surface and all features specifically described in this checklist.
4. A standard set of color photographs is required. In addition, all anomalous features or new features (such as changes in adjacent area land use) are to be photographed. A photograph log will be completed, and an entry will be made for each photograph taken.
5. Field notes taken to assist in completion of this checklist will become part of the inspection record. No form is specified for field notes; however, they must be legible and in sufficient detail to enable review by succeeding inspectors and the responsible agency.
6. This unit will be inspected quarterly, with a formal report provided to the Nevada Division of Environmental Protection annually. The annual report will include an executive summary; this inspection checklist with field notes, photographs, and photograph log; and conclusions and recommendations.

B. PREPARATION (To be competed prior to site visit)	YES	NO	EXPLANATION (required if shaded box is checked)
1. Has the Post-Closure Permit been reviewed?	✓		
2. Has the Post-Closure Permit application been reviewed?	✓		
3. Has the Post-Closure Plan been reviewed?	✓		
4. Have the site as-built plans and site base map been reviewed?	✓		
5. Have the previous inspection reports been reviewed?	✓		
a. Were anomalies or trends detected on previous inspections?		✓	
b. Was maintenance performed?		✓	
If maintenance was performed, has a copy of the maintenance records been obtained?			NA ✓
6. Have the site maintenance and repair records been reviewed?	✓		
a. If so, has site repair resulted in a change from as-built conditions?			NA ✓
b. If yes (to 6a), are revised as-built plans available that reflect repair changes?			NA ✓

Inspection Requirements:
(1) Quarterly, or
(2) Rain Event of >0.5 inches in 24 hours

POST-CLOSURE INSPECTION CHECKLIST

CAU 92: AREA 6 DECON POND FACILITY - CAS 06-05-02: Decontamination Pond (RCRA)

C. SITE INSPECTION PREPARATION

Assemble the following, as needed, to conduct inspections:
a. Camera, film, and batteries
b. Keys to locks
c. Clipboard
d. Tape measure
e. Radio, pager, etc.
f. Previous Post-Closure Report, Inspection Checklists, repair records, and as-built plans
g. Other miscellaneous support equipment

D. SITE INSPECTION

1. Adjacent off-site features:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Are there any new activities or features on Yucca Lake that could potentially affect the site (e.g., activities that change the flow of surface water or are encroaching the unit)?		✓	

2. Fencing, gates, and signs:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Is there damage to or a break in the fence?		✓	
b. Have any fenceposts been damaged or their anchoring weakened?		✓	
c. Are any of the use restriction signs damaged or missing?		✓	
d. Are all use restriction signs legible?	✓		
e. How many use restriction signs need to be replaced?	0		
f. Are any of the URMA signs damaged or missing?		✓	
g. Are all URMA signs legible?	✓		
h. How many URMA signs need to be replaced?	0		
i. Is the gate intact and functional?	✓		
j. Does the gate show evidence of tampering or damage?		✓	
k. Was the gate locked?	✓		
l. Does the wave barrier require repair?		✓	
m. Is there standing water within or at the fenceline?		✓	
If yes, what is the playa water elevation, as measured on the depth gauge attached to the fence perimeter?			
n. Other?			NA

3. Waste unit cover.	YES	NO	EXPLANATION (Required if shaded box is checked. If checked, specify dimensions, quantity, and/or other information to describe conditions.)
a. Is there evidence of settling?		✓	
b. Is there evidence of cracking?		✓	

Inspection Requirements:
(1) Quarterly, or
(2) Rain Event of >0.5 inches in 24 hours.

POST-CLOSURE INSPECTION CHECKLIST

CAU 92: AREA 6 DECON POND FACILITY - CAS 06-05-02: Decontamination Pond (RCRA)

3. Waste unit cover (continued):	YES	NO	EXPLANATION (Required if shaded box is checked. If checked, specify dimensions, quantity, and/or other information to describe conditions.)
c. Is there evidence of erosion (wind or water)?		✓	
d. Is there evidence of human intrusion onto the cover?		✓	
e. Is there evidence of large animal intrusion onto the cover?		✓	
f. Is there evidence of animal burrowing?		✓	
g. Is vegetation growing on the cover?		✓	
h. Other (including trash, debris, etc within fenced area)?			NA ✓

4. Subsidence survey markers:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Have any of the 5 subsidence survey markers been disturbed?		✓	
b. Do natural processes threaten the integrity of any subsidence survey marker?		✓	
c. Is there excessive vegetation around the subsidence survey markers?		✓	
d. Other?			NA ✓

5. Photograph Instructions:

A total of 8 photographs must be taken during each inspection of CAU 92. Additional photographs may also be taken. The required photographs shall be taken as follows:

- Four (4) from the center of the unit, one in each compass direction (i.e., N, S, E, W) and
- Four (4) of the unit from outside the fence, one in each compass direction.

6. Photograph Documentation:	YES	NO	EXPLANATION (required if shaded box is checked)
a. Have all photographs been taken as required by the photograph instructions?	✓		
b. Has a photograph log been prepared?			Log number:
c. How many photographs were taken?	8		
d. Other?			NA ✓

E. FIELD CONCLUSIONS	YES	NO	EXPLANATION (required if shaded box is checked)
1. Are more frequent inspections required?		✓	
2. Are existing maintenance/repair actions satisfactory?	✓		
3. Is other maintenance/repair necessary?		✓	
4. Is there an imminent hazard to the integrity of the site? (Immediate report required)		✓	

Date reported: _____

Person/Agency to whom report was made:

Inspection Requirements:
(1) Quarterly, or
(2) Rain Event of >0.5 inches in 24 hours

POST-CLOSURE INSPECTION CHECKLIST

CAU 92: AREA 6 DECON POND FACILITY - CAS 06-05-02: Decontamination Pond (RCRA)

5. Field conclusions/recommendations: Site, Signs, Fencing & Cover all in good Repair w.H No problems Noted

F. CERTIFICATION

I have conducted an inspection of CAU 92, Area 6 Decon Pond Facility, in accordance with the procedures of the Post-Closure Permit (including the Post-Closure Plan) as recorded on this checklist, attached sheets, field notes, photographs, and photograph logs.

Chief Inspector's Signature: /s/ Glenn Richardson	Date: 12/18/07
Printed Name: Glenn Richardson	Title: Task Manager

Attachments (check if attached):

- ☐ Field Notes
- ☐ Photos
- ☐ Maintenance records

(CAU 92) Area 6 Decon Pond Precipitation Inspection 12/11/07

Scope:
Arrived @ 1:07 PM to inspect level of precipitation on the waste unit cover. Received an e-mail notification from the UCC MEDA Station that the level of precipitation exceeded our regulatory threshold of 0.5 in. on 12/8/07 (Saturday). The precipitation event reached a level of 0.8 in.

Personnel: Glenn Richardson, Task Manager Equipment: Camera, Radio
Dudley Emer, Sr. Scientist

Performed a site walkdown around the Decon Pond fenced area. Noticed standing water inside the NE corner of the fenced area, but was not observed on the waste unit cover. The fencing and UR signage is in good condition. Also, the wave barriers are not damaged and appear to be maintaining their stability. The site is in great condition and was not adversely affected by the precipitation event. There are no issues or concerns associated with this site. Leaving the site at 1:23 PM

/s/ Glenn Richardson

RCRA Post Closure Inspections - December 18, 2007

Personnel: Glenn Richardson - NSTec Task Mgr.
Dudley Emer - NSTec Senior Scientist, Greg Doyle - NSTec Engi. Geologi
Visitors: Ted Zaferatos - NDEP
Kevin Cabble, Janis Romo - NNSA

SIGNATURE /s/ Glenn RIchardson DATE 12/18/07
DISCLOSED TO AND UNDERSTOOD BY DATE WITNESS DATE

Scope: Perform quarterly and semiannual post closure site inspections for the following CAUs: 90, 92, 110, + 112.

Equipment: Camera
Weather Conditions: Cloudy, Extremely Low - Mid 30's
PPE: Standard Level D (hard hats are optional)

8:55AM - Left Mercury in Route to Area 2 Bitcutter Site
9:38 AM - Arrived @ CAU 90 Bitcutter
Performed a Tailgate Safety Briefing w/ NNSA + NDEP.
- Discussed Cold Stress conditions, Slips/trips/fall hazards
- " balanced consumption of water to prevent dehydration
- " buddy system during walkdown

9:45 AM - Performed site inspection @ CAU 90. Overall site conditions are good. There are no signs of vegetation growth. The chain link fencing and signage are in good condition. Noticed a small animal burrow inside the west fenced area; however, this not significant enough to warrant a corrective action.
9:54 AM - Leaving CAU 90 in route to CAU 110 U3ax/bl.
10:10 AM - Arrived @ CAU 110 and started site inspection. Greg Doyle met us at the site and participated in the site inspection. The fencing and signage looked good and was well-maintained. There were a few animal burrows identified. A follow-up action will be taken to contact D. Anderson (ecological services) to plan a site visit prior to the March inspection period. We also discovered a new crack greater than 6 ft. on the surface (lateral extent) on the east edge of the cover. Photos were taken for documentation and repair is necessary within 60 days. After discussing our observations

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Work continued to Page 171

SIGNATURE /s/ Glenn Richardson DATE 12/18/07
DISCLOSED TO AND UNDERSTOOD BY DATE WITNESS DATE

Work continued from Page 170

with NNSA and NDEP, we departed the site in route to CAU 92. Greg Doyle returned to Mercury after the 110 inspection.

11:18AM - Arrived @ CAU 92 and performed site inspection. Overall site conditions are great. The fencing and UR signage are well maintained. No evidence of vegetation growth. The wave barriers are not damaged. Photo documentation was taken at this site. No issues or concerns. Left CAU 92 in route to CAU 112.

12:02 PM - Arrived @ CAU 112 and performed a site inspection. Drove around Area 23 waste trenches to find no observations that warranted a corrective action. The UR signs and aboveground monuments are in good condition. No evidence of vegetation growth. Left CAU 112 and headed to ER Dorms.

12:10 PM - Debrief of all observations was discussed w/ NNSA and NDEP. NNSA + NDEP left the dorms in route to Mercury. End of Inspections at 12:15 PM.

Note: Photos that were taken will be logged on the ER Shared Drive.

/s/ Glenn Richardson

Work continued to Page

SIGNATURE /s/ Glenn Richardson DATE 12/18/07

DISCLOSED TO AND UNDERSTOOD BY DATE WITNESS DATE

APPENDIX B

PHOTOGRAPHS

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PHOTOGRAPH LOG

PHOTOGRAPH	DATE	DESCRIPTION
1	3/29/2007	Outside unit looking north
2	3/29/2007	Outside unit looking east
3	3/29/2007	Outside unit looking south
4	3/29/2007	Outside unit looking west
5	3/29/2007	Inside unit looking north
6	3/29/2007	Inside unit looking east
7	3/29/2007	Inside unit looking south
8	3/29/2007	Inside unit looking west
9	6/13/2007	Outside unit looking north
10	6/13/2007	Outside unit looking east
11	6/13/2007	Outside unit looking south
12	6/13/2007	Outside unit looking west
13	6/13/2007	Inside unit looking north
14	6/13/2007	Inside unit looking east
15	6/13/2007	Inside unit looking south
16	6/13/2007	Inside unit looking west
17	9/27/2007	Outside unit looking north
18	9/27/2007	Outside unit looking east
19	9/27/2007	Outside unit looking south
20	9/27/2007	Outside unit looking west
21	9/27/2007	Inside unit looking north
22	9/27/2007	Inside unit looking east
23	9/27/2007	Inside unit looking south
24	9/27/2007	Inside unit looking west
25	12/18/2007	Outside unit looking north
26	12/18/2007	Outside unit looking east
27	12/18/2007	Outside unit looking south
28	12/18/2007	Outside unit looking west
29	12/18/2007	Inside unit looking north
30	12/18/2007	Inside unit looking east
31	12/18/2007	Inside unit looking south
32	12/18/2007	Inside unit looking west

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Photograph 1: Outside unit looking north, 03/29/2007



Photograph 2: Outside unit looking east, 03/29/2007



Photograph 3: Outside unit looking south, 03/29/2007



Photograph 4: Outside unit looking west, 03/29/2007



Photograph 5: Inside unit looking north, 03/29/2007



Photograph 6: Inside unit looking east, 03/29/2007



Photograph 7: Inside unit looking south, 03/29/2007



Photograph 8: Inside unit looking west, 03/29/2007



Photograph 9: Outside unit looking north, 06/13/2007



Photograph 10: Outside unit looking east, 06/13/2007



Photograph 11: Outside unit looking south, 06/13/2007



Photograph 12: Outside unit looking west, 06/13/2007



Photograph 13: Inside unit looking north, 06/13/2007



Photograph 14: Inside unit looking east, 06/13/2007



Photograph 15: Inside unit looking south, 06/13/2007



Photograph 16: Inside unit looking west, 06/13/2007



Photograph 17: Outside unit looking north, 09/27/2007



Photograph 18: Outside unit looking east, 09/27/2007



Photograph 19: Outside unit looking south, 09/27/2007



Photograph 20: Outside unit looking west, 09/27/2007



Photograph 21: Inside unit looking north, 09/27/2007



Photograph 22: Inside unit looking east, 09/27/2007



Photograph 23: Inside unit looking south, 09/27/2007



Photograph 24: Inside unit looking west, 09/27/2007



Photograph 25: Outside unit looking north, 12/18/2007



Photograph 26: Outside unit looking east, 12/18/2007



Photograph 27: Outside unit looking south, 12/18/2007



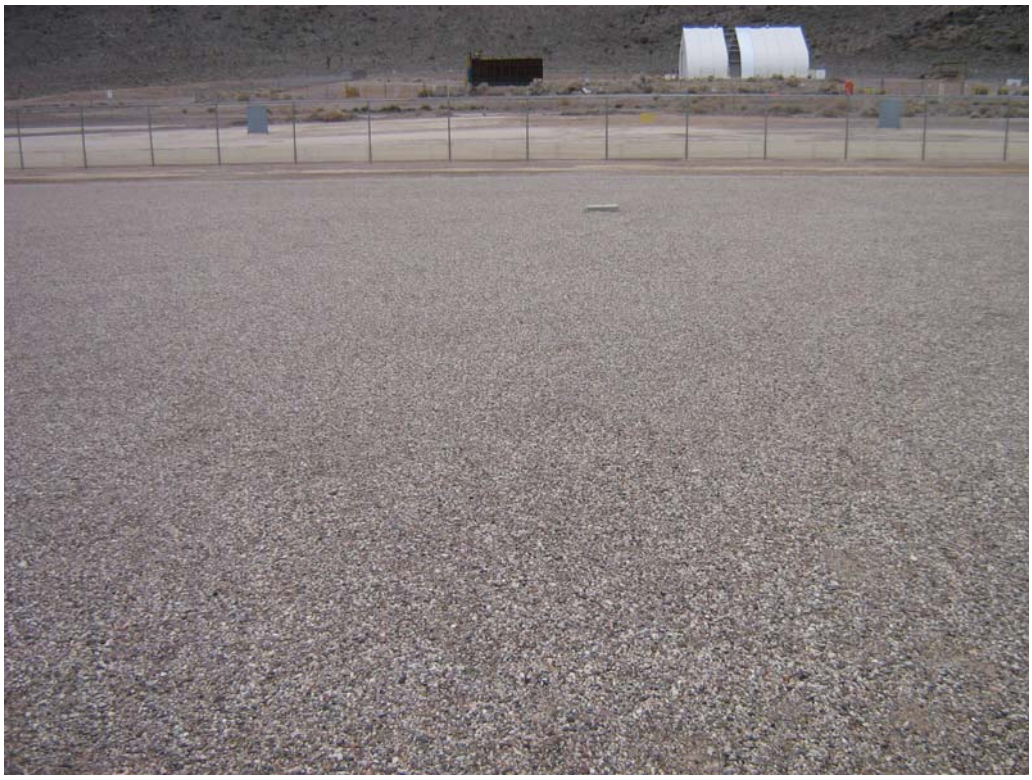
Photograph 28: Outside unit looking west, 12/18/2007



Photograph 29: Inside unit looking north, 12/18/2007



Photograph 30: Inside unit looking east, 12/18/2007



Photograph 31: Inside unit looking south, 12/18/2007



Photograph 32: Inside unit looking west, 12/18/2007

APPENDIX C

PRECIPITATION RECORDS

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02/07/07

YUCCA DRY LAKE (UCC) HOURLY PRECIPITATION SUMMARY (Inches)

January 01 - 31, 2007

Day/Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total
1																									0.00
2																									0.00
3																									0.00
4						0.01	0.03																		0.04
5																									0.00
6																									0.00
7																									0.00
8																									0.00
9																									0.00
10																									0.00
11																									0.00
12																									0.00
13																									0.00
14																									0.00
15																									0.00
16																									0.00
17																									0.00
18																									0.00
19																									0.00
20																									0.00
21																									0.00
22																									0.00
23																									0.00
24																									0.00
25																									0.00
26																									0.00
27																									0.00
28																									0.00
29																									0.00
30																									0.00
31																									0.00
Monthly Total																									0.04

Data Tabulated By: /s/ Raymond Dennis 02/07/07

Data Quality Control: /s/ J Wood 02/07/07

Certified By: See Original 02/07/07

ARL/SORD
232 Energy Way
N. Las Vegas, NV 89030
702-295-1263

03/09/07

YUCCA DRY LAKE (UCC) HOURLY PRECIPITATION SUMMARY (Inches)

February 01 - 28, 2007

Day/Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total
1																									0.00
2																									0.00
3																									0.00
4																									0.00
5																									0.00
6																									0.00
7																									0.00
8																									0.00
9																									0.00
10																									0.00
11																									0.00
12		0.01																							0.01
13													0.05												0.05
14																									0.00
15																									0.00
16																									0.00
17																									0.00
18																									0.00
19																									0.00
20																									0.00
21																									0.00
22																									0.00
23																									0.00
24																									0.00
25																									0.00
26																									0.00
27																								0.01	0.01
28																									0.00
																									0.00
																									0.00
																									0.00
Monthly	Total																								0.07

Data Tabulated By: /s/ Raymond Dennis 3/5/07

Data Quality Control: /s/ J Wood 3/6/07

Certified By: See ORiginal 3/8/07

ARL/SORD
232 Energy Way
N. Las Vegas, NV 89030
702-295-1263

04/03/07

YUCCA DRY LAKE (UCC) HOURLY PRECIPITATION SUMMARY (Inches)

March 01 - 31, 2007

Day/Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total
1																									0.00
2																									0.00
3																									0.00
4																									0.00
5																									0.00
6																									0.00
7																									0.00
8																									0.00
9																									0.00
10																									0.00
11																									0.00
12																									0.00
13																									0.00
14																									0.00
15																									0.00
16																									0.00
17																									0.00
18																									0.00
19																									0.00
20																									0.00
21																									0.00
22																									0.00
23																									0.00
24																									0.00
25																									0.00
26																									0.00
27								0.02								0.01		0.01							0.04
28																									0.00
29																									0.00
30																									0.00
31																									0.00
Monthly Total																									0.04

Data Tabulated By: /s/ Raymond Dennis 04/03/2007

Data Quality Control: /s/ J Wood 04/03/2007

Certified By: See Original 4/5/07

ARL/SORD
232 Energy Way
N. Las Vegas, NV 89030
702-295-1263

05/03/07

YUCCA DRY LAKE (UCC) HOURLY PRECIPITATION SUMMARY (Inches)

April 01 - 30, 2007

Day/Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total
1																									0.00
2																									0.00
3																									0.00
4																									0.00
5																									0.00
6																									0.00
7																									0.00
8																									0.00
9																									0.00
10																									0.00
11																									0.00
12																									0.00
13																									0.00
14																									0.00
15																	0.01			0.02	0.05	0.12	0.11	0.03	0.34
16	0.01	0.01		0.01			0.01																		0.04
17																									0.00
18																									0.00
19																									0.00
20																									0.00
21																									0.00
22																0.03	0.01			0.04	0.12	0.03	0.03		0.26
23																									0.00
24																									0.00
25																									0.00
26																									0.00
27																									0.00
28																									0.00
29																									0.00
30																									0.00
Monthly	Total																								0.64

Data Tabulated By: /s/ Raymond Dennis 05/03/07

Data Quality Control: /s/ J. Wood 05/04/07

Certified By: See Original 5/4/07

ARL/SORD
232 Energy Way
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702-295-1263

06/07/07

YUCCA DRY LAKE (UCC) HOURLY PRECIPITATION SUMMARY (Inches)

May 01 - 31, 2007

Day/Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total
1																									0.00
2																									0.00
3																									0.00
4																									0.00
5																									0.00
6																									0.00
7																									0.00
8																									0.00
9																									0.00
10																									0.00
11																									0.00
12																									0.00
13																									0.00
14																									0.00
15																									0.00
16																									0.00
17																									0.00
18																									0.00
19																									0.00
20																									0.00
21																									0.00
22																									0.00
23																									0.00
24																									0.00
25																									0.00
26																									0.00
27																									0.00
28																									0.00
29																									0.00
30																									0.00
31																									0.00
Monthly	Total																								0.00

Data Tabulated By: /s/ J Wood 06/07/07

Data Quality Control: /s/ Raymond Dennis 06/07/07

Certified By: See Original 6/8/07

ARL/SORD
232 Energy Way
N. Las Vegas, NV 89030
702-295-1263

07/10/07

YUCCA DRY LAKE (UCC) HOURLY PRECIPITATION SUMMARY (Inches)

June 01 - 30, 2007

Day/Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total
1																									0.00
2																									0.00
3																									0.00
4																									0.00
5																									0.00
6																									0.00
7																									0.00
8																									0.00
9																									0.00
10																									0.00
11																									0.00
12																									0.00
13																									0.00
14																									0.00
15																									0.00
16																									0.00
17																									0.00
18																									0.00
19																									0.00
20																									0.00
21																									0.00
22																									0.00
23																									0.00
24																									0.00
25																									0.00
26																									0.00
27																									0.00
28																									0.00
29																									0.00
30																									0.00
7																									0.00
Monthly	Total																								0.00

Data Tabulated By: /s/ J Wood 7/10/07

Data Quality Control: /s/ Raymond Dennis 7/10/07

Certified By: See Original 7/11/07

ARL/SORD
232 Energy Way
N. Las Vegas, NV 89030
702-295-1263

08/07/07

YUCCA DRY LAKE (UCC) HOURLY PRECIPITATION SUMMARY (Inches)

July 01 - 31, 2007

Day/Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total
1																									0.00
2																									0.00
3																									0.00
4																									0.00
5																									0.00
6																									0.00
7																									0.00
8																									0.00
9																									0.00
10																									0.00
11																0.05									0.05
12																									0.00
13																									0.00
14																									0.00
15																									0.00
16																									0.00
17																									0.00
18																									0.00
19																									0.00
20																									0.00
21																									0.00
22																									0.00
23																									0.00
24																									0.00
25																									0.00
26																									0.00
27																									0.00
28																									0.00
29																									0.00
30													0.02												0.02
31													0.01							0.01			0.01	0.01	0.04
Monthly	Total																								0.11

Data Tabulated By: /s/ Raymond Dennis 08/06/07

Data Quality Control: See Original 08/07/07

Certified By: /s/ Kip Smith 8/7/2007

ARL/SORD
232 Energy Way
N. Las Vegas, NV 89030
702-295-1263

09/05/07

YUCCA DRY LAKE (UCC) HOURLY PRECIPITATION SUMMARY (Inches)

August 1-31 2007

Day/Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total
1	0.01	0.02	0.10	0.06																					0.19
2									0.01	0.02															0.03
3																									0.00
4																									0.00
5																									0.00
6																									0.00
7																									0.00
8																									0.00
9																									0.00
10																									0.00
11																									0.00
12																									0.00
13																									0.00
14																									0.00
15																									0.00
16																									0.00
17																									0.00
18																									0.00
19																									0.00
20																									0.00
21																									0.00
22																									0.00
23																									0.00
24																									0.00
25																									0.00
26																				0.02				0.01	0.03
27	0.02	0.08	0.01	0.01	0.09	0.02																			0.23
28																									0.00
29																									0.00
30																									0.00
31																									0.00
Monthly	Total																								0.48

Data Tabulated By: /s/ Raymond Dennis 9/5/07

Data Quality Control: See Original

Certified By: /s/ Kip Smith 9/7/2007

ARL/SORD
232 Energy Way
N. Las Vegas, NV 89030
702-295-1263

10/04/07

YUCCA DRY LAKE (UCC) HOURLY PRECIPITATION SUMMARY (Inches)

September 1-30, 2007

Day/Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total
1																									0.00
2																									0.00
3																									0.00
4																									0.00
5																									0.00
6																									0.00
7																									0.00
8																									0.00
9																									0.00
10								0.02																	0.02
11																									0.00
12																									0.00
13																									0.00
14																									0.00
15																									0.00
16																									0.00
17																									0.00
18																									0.00
19																									0.00
20																									0.00
21		0.04	0.03	0.01	0.03	0.06	0.06	0.05	0.05	0.01	0.01	0.02	0.01	0.05	0.03	0.15	0.28	0.11	0.12	0.08	0.08	0.44	0.23	0.30	2.25
22	0.11	0.02	0.02	0.01	0.10	0.01	0.02	0.01											0.03	0.04	0.01				0.38
23						0.01	0.01	0.01							0.01										0.04
24																									0.00
25																									0.00
26																									0.00
27																									0.00
28																									0.00
29																									0.00
30																									0.00
Monthly	Total																								2.69

Data Tabulated By: /s/ Raymond Dennis 10/03/07

Data Quality Control: /s/ J Wood 10/03/07

Certified By: /s/ Kip Smith 10/4/2007

ARL/SORD
232 Energy Way
N. Las Vegas, NV 89030
702-295-1263

11/05/07

YUCCA DRY LAKE (UCC) HOURLY PRECIPITATION SUMMARY (Inches)

October 1-31 2007

Day/Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total
1																									0.00
2																									0.00
3																									0.00
4																									0.00
5																									0.00
6																									0.00
7																									0.00
8																									0.00
9																									0.00
10																									0.00
11																									0.00
12																									0.00
13																									0.00
14																									0.00
15																									0.00
16																									0.00
17																									0.00
18																									0.00
19																									0.00
20																									0.00
21																									0.00
22																									0.00
23																									0.00
24																									0.00
25																									0.00
26																									0.00
27																									0.00
28																									0.00
29																									0.00
30																									0.00
31																									0.00
Monthly Total																									0.00

Data Tabulated By: /s/ Raymond Dennis 11/05/07

Data Quality Control: /s/ J Wood 11/07/07

Certified By: /s/ Kip Smith 11/7/2007

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N. Las Vegas, NV 89030
702-295-1263

12/07/07

YUCCA DRY LAKE (UCC) HOURLY PRECIPITATION SUMMARY (Inches)

November 1-30 2007

Day/Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total
1																									0.00
2																									0.00
3																									0.00
4																									0.00
5																									0.00
6																									0.00
7																									0.00
8																									0.00
9																									0.00
10																									0.00
11																									0.00
12																									0.00
13																									0.00
14																									0.00
15																									0.00
16																									0.00
17																									0.00
18																									0.00
19																									0.00
20																									0.00
21																									0.00
22																									0.00
23																									0.00
24																									0.00
25																									0.00
26																									0.00
27																									0.00
28																									0.00
29																									0.00
30																		0.08	0.02	0.01	0.01				0.12
Monthly Total																									0.12

Data Tabulated By: /s/ Raymond Dennis 12/07/2007

Data Quality Control: /s/ J Wood 12/07/07

Certified By: /s/ Kip Smith 12/7/20

ARL/SORD
232 Energy Way
N. Las Vegas, NV 89030
702-295-1263

01/04/08	YUCCA DRY LAKE (UCC) HOURLY PRECIPITATION SUMMARY (Inches)																							
	December 1-31, 2007																							
Day/Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total
1						0.02	0.03	0.03	0.02	0.01															0.11
2																									0.00
3																									0.00
4																									0.00
5																									0.00
6																									0.00
7																					0.02	0.19	0.10	0.13	0.44
8	0.09	0.03	0.02	0.01		0.01		0.01	0.03		0.01				0.01										0.22
9																									0.00
10																									0.00
11																									0.00
12																									0.00
13																									0.00
14																									0.00
15																									0.00
16																									0.00
17																									0.00
18													0.01							0.01	0.01	0.02	0.03	0.05	0.13
19	0.04	0.02																							0.06
20																0.04	0.08	0.01							0.13
21																									0.00
22																									0.00
23																									0.00
24																									0.00
25																									0.00
26																									0.00
27																									0.00
28																									0.00
29																									0.00
30																									0.00
31																									0.00
Monthly	Total																								1.09

Data Tabulated By: /s/ Raymond Dennis 01/04/2008

Data Quality Control: /s/ J Wood 01/04/08

Certified By: /s/ Kip Smith 1/7/2008

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