

Nevada  
Environmental  
Restoration  
Project

DOE/NV--1155



Post-Closure Inspection Report for  
Corrective Action Unit 90: Area 2  
Bitcutter Containment,  
Nevada Test Site, Nevada

For the Period July 2005-June 2006

Controlled Copy No.: \_\_\_\_\_

Revision: 0

August 2006

Environmental Restoration  
Project



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

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**POST-CLOSURE INSPECTION REPORT  
FOR CORRECTIVE ACTION UNIT 90:  
AREA 2 BITCUTTER CONTAINMENT,  
NEVADA TEST SITE, NEVADA**

**FOR THE PERIOD  
JULY 2005-JUNE 2006**

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

**Controlled Copy No.:\_\_\_\_\_**  
**Revision: 0**  
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**POST-CLOSURE INSPECTION REPORT  
FOR CORRECTIVE ACTION UNIT 90:  
AREA 2 BITCUTTER CONTAINMENT,  
NEVADA TEST SITE, NEVADA**

**FOR THE PERIOD  
JULY 2005-JUNE 2006**

Approved by: Kevin Cabbie  
Kevin J. Cabbie  
Federal Sub-Project Director  
Environmental Restoration Project

Date: 8/10/06

Approved by: Janet Appenzeller-Wing  
Janet Appenzeller-Wing  
Federal Project Director  
Environmental Restoration Project

Date: 8/11/06

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## **1.0 INTRODUCTION**

Corrective Action Unit (CAU) 90, Area 2 Bitcutter Containment, is identified in the *Federal Facilities Agreement and Consent Order* (FFACO) of 1996. The post-closure monitoring requirements for CAU 90 are described in Section VII.B.8.b of the Nevada Test Site Resource Conservation and Recovery Act Permit for a Hazardous Waste Management Facility Number NEV HW009, Section VII, Revision 1, dated March 2003.

Post-closure activities consist of the following:

- Semiannual inspections of the site using inspection checklists
- Photographic documentation
- Field note documentation
- Preparation and submittal of an annual Post-Closure Inspection Report

This annual report covers the period of July 2005 to June 2006 and consists of copies of the inspection checklists, maintenance and repair records (if any), photographs, and recommendations and conclusions. The inspection checklists are provided in Appendix A, a copy of the field notes is provided in Appendix B, and copies of photographs are provided in Appendix C.

## **2.0 RESULTS OF THE INSPECTIONS**

The semiannual inspections for CAU 90 were performed on December 12, 2005, and June 20, 2006. The December inspection indicated continued integrity of the unit. The fencing, signs, and cover were in excellent condition. No further inspections or actions are necessary other than continuing the semiannual inspections.

The June inspection also indicated continued integrity of the waste unit cover. No vegetation was noted on the cover. Some small animal burrows were backfilled during the time of the site inspection and will be watched during future inspections. The fencing, signs, and gate were in excellent condition.

## **3.0 CONCLUSIONS AND RECOMMENDATIONS**

All inspections at CAU 90 indicated continued integrity of the unit. It is recommended to continue inspections as scheduled. No repairs are needed. As time and funding allow, the posted use restriction signs will be updated to meet FFACO Use Restriction guidelines.

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# **APPENDIX A**

## **POST-CLOSURE INSPECTION CHECKLISTS**

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**CAU 90: AREA 2 BITCUTTER CONTAINMENT, POST-CLOSURE INSPECTION CHECKLIST**Inspection Date and Time: 12/12/05 - 0900

Reason for Inspection: Semi-annual

Date of Last Post-Closure Inspection:

Reason for Last Post-Closure Inspection: Semi-annual

Responsible Agency: Bechtel Nevada Environmental Restoration

Address: Nevada Test Site, Mercury, Nevada

Responsible Agency Official: Jeffrey L. Smith, Project Manager

Chief Inspector:

MIKE FLOYD

Title:

FIELD OFF.

Organization: Environmental Restoration

Assistant Inspector:

Galen Richardson

Title:

First 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 semi-annually 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 completed 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?

☐☒

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?

☒☐**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 90: AREA 2 BITCUTTER CONTAINMENT, 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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b. Are there any new roads or trails?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c. Has there been any change in the position of nearby washes?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d. Has there been lateral excursion or erosion/deposition of nearby washes?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e. Are there new drainage channels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f. Has there been a change in the surrounding vegetation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Access roads, fences, gates, and signs:			
a. Is there a break in the fence?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b. Have any posts been damaged or their anchoring weakened?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c. Does the gate show evidence of tampering or damage?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d. Was the gate locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e. Is there any evidence of human intrusion onto the cover?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f. Is there any evidence of large animal intrusion onto the cover?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g. Have any signs been damaged or removed? (Number of signs replaced: ____)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
h. Other?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	N/A
3. Monuments and other permanent features:			
a. Have survey markers, boundary monuments, or monitoring stations been disturbed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b. Do natural processes threaten the integrity of any survey marker, boundary monument or monitoring station?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c. Is there excessive vegetation around the survey markers, boundary monuments, or monitoring stations?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d. Other?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	N/A
4. Waste unit cover:			
a. Is there evidence of settling?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b. Is there evidence of cracking?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c. Is there evidence of erosion (wind or water)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d. Is there evidence of animal burrowing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e. Is there vegetation growing on the cover?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g. Other (including trash, debris, etc within fenced area)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

**CAU 90: AREA 2 BITCUTTER CONTAINMENT, POST-CLOSURE INSPECTION CHECKLIST****5. Photograph Instructions:**

A total of 6 photographs are required to be taken during each inspection of CAU 90. Additional photographs may also be taken. The required photographs shall be taken as follows:

- Three (3) of the west unit from outside the fence, one in each compass direction (i.e., N, S, E) and
- Three (3) of the east unit from outside the fence, one in each compass direction (i.e., N, S, W).

**6. Photograph Documentation:**

YES	NO	EXPLANATION
<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	

a. Have all photographs required by the photograph instructions been taken?

b. Has a photograph log been prepared?  
(Number of photographs taken: 6)

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: BOTH EAST & WEST SITES, COVER, GATES, FENCE'S, & CARS WERE FOUND TO BE IN GOOD CONDITION

**F. CERTIFICATION**

I have conducted an inspection of CAU 90, Area 2 Bitcutter Containment, 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: M. S. Floyd

Date: 12/12/05

Printed Name: MIKE FLOYD

Title: 12/12/05

**CAU 90: AREA 2 BITCUTTER CONTAINMENT, POST-CLOSURE INSPECTION CHECKLIST**

Inspection Date and Time: 6/20/06 0915

Reason for Inspection: Semi-annual

Date of Last Post-Closure Inspection:

Reason for Last Post-Closure Inspection: Semi-annual

Responsible Agency: Bechtel Nevada Environmental Restoration

Address: Nevada Test Site, Mercury, Nevada

Responsible Agency Official: Jeffrey L. Smith, Project Manager

Chief Inspector: SHANGHO BURNISON

Title: TECH LEAD - BN ER

Organization: Environmental Restoration

Assistant Inspector: GLENN RICHARDSON

Title: TASK MGR - BN ER

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 semi-annually 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 completed prior to site visit)**

YES NO EXPLANATION

1. Has the Post-Closure Permit been reviewed?

X

2. Have the design basis documents been reviewed?

X

3. Have the site as-built plans and site base map been reviewed?

X

4. Have the previous inspection reports been reviewed?

X

a. Were anomalies or trends detected on previous inspections?

X

b. Was maintenance performed?

X

5. Have the site maintenance and repair records been reviewed?

X

a. Has site repair resulted in a change from as-built conditions?

X

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 90: AREA 2 BITCUTTER CONTAINMENT, POST-CLOSURE INSPECTION CHECKLIST**

D. SITE INSPECTION <i>ARR 9:15</i>	YES	NO	EXPLANATION
1. Adjacent off-site features:			
a. Have there been any changes in the use of the adjacent area?		<i>X</i>	
b. Are there any new roads or trails?		<i>X</i>	
c. Has there been any change in the position of nearby washes?		<i>X</i>	
d. Has there been lateral excursion or erosion/deposition of nearby washes?		<i>X</i>	
e. Are there new drainage channels?		<i>X</i>	
f. Has there been a change in the surrounding vegetation?		<i>X</i>	
2. Access roads, fences, gates, and signs:			
a. Is there a break in the fence?		<i>X</i>	
b. Have any posts been damaged or their anchoring weakened?		<i>X</i>	
c. Does the gate show evidence of tampering or damage?		<i>X</i>	
d. Was the gate locked?	<i>X</i>		
e. Is there any evidence of human intrusion onto the cover?		<i>X</i>	
f. Is there any evidence of large animal intrusion onto the cover?		<i>X</i>	
g. Have any signs been damaged or removed? (Number of signs replaced: <i>0</i> )		<i>X</i>	
h. Other?	<i>X</i>		<i>BACKFILLED SEVERAL SMALL BURROWS IN SWIFT</i>
3. Monuments and other permanent features:			
a. Have survey markers, boundary monuments, or monitoring stations been disturbed?		<i>X</i>	
b. Do natural processes threaten the integrity of any survey marker, boundary monument or monitoring station?		<i>X</i>	
c. Is there excessive vegetation around the survey markers, boundary monuments, or monitoring stations?		<i>X</i>	
d. Other?			<i>N/A</i>
4. Waste unit cover:			
a. Is there evidence of settling?		<i>X</i>	
b. Is there evidence of cracking?		<i>X</i>	
c. Is there evidence of erosion (wind or water)?		<i>X</i>	
d. Is there evidence of animal burrowing?	<i>X</i>		<i>Some recent in S. unit.</i>
e. Is there vegetation growing on the cover?		<i>X</i>	
g. Other (including trash, debris, etc within fenced area)?		<i>X</i>	

# **CAU 90: AREA 2 BITCUTTER CONTAINMENT, POST-CLOSURE INSPECTION CHECKLIST**

## **5. Photograph Instructions:**

A total of 6 photographs are required to be taken during each inspection of CAU 90. Additional photographs may also be taken. The required photographs shall be taken as follows:

- Three (3) of the west unit from outside the fence, one in each compass direction (i.e., N, S, E) and
- Three (3) of the east unit from outside the fence, one in each compass direction (i.e., N, S, W).

## **6. Photograph Documentation:**

a. Have all photographs required by the photograph instructions been taken?

YES

NO

EXPLANATION

X

b. Has a photograph log been prepared? *5 SB 6/20/06*  
(Number of photographs taken: *5*)

X

c. Other?

X

## **E. FIELD CONCLUSIONS**

1. Is there an imminent hazard to the integrity of the unit?  
(Immediate report required)

X

Person/Agency to whom report was made:

2. Are more frequent inspections required?

X

3. Are existing maintenance/repair actions satisfactory?

X

4. Is other maintenance/repair necessary?

X

5. Field conclusions/recommendations: *Some small burrows in S. unit to watch. Signs need to be changed as time & funding allow. to meet FFACO Guidelines. Key issue is emergency phone #.*

*Otherwise - the unit is in excellent condition.*

*dep. 9:35*

## **F. CERTIFICATION**

I have conducted an inspection of CAU 90, Area 2 Bitcutter Containment, 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:

*Shaughn A. Burnison*

Date:

*6/20/2006*

Printed Name:

*SHAUGHN A. BURNISON*

Title:

*FIELD TECHNICAL LEAD*

## **APPENDIX B**

### **FIELD NOTES**

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12/12/05

## RCRA INSPECTIONS

MSE

~~CAU 90 BITUTTER (BITUTTER)~~

5 SCOPE: PERFORM RCRA INSPECTIONS ON CAU(S) 90, 91, 110, 92, 112.

SAFETY: DRIVING SAFETY, UKO, PPE, SLIP, TRIP, FALL, Buddy System, EMERGENCY PROCEDURES

10 EQUIP. NONE

WEATHER - CLEAR, CALM, HI. 50'S

5 0900 - ARRIVE AT CAU 90 - (BITUTTER). SITE WAS FOUND TO BE IN GOOD CONDITION. FENCE(S), GATE(S) (LOCKED) SIGNS, AND COVER WERE IN GOOD CONDITION, NO FURTHER INSPECTIONS OR ACTION, ~~SMF~~ <sup>MSE</sup> ~~WENT~~ CONTINUE REGULAR INSPECTIONS.

0930 - ARRIVE AT CAU 91 (U3Fi). THIS SITE WAS FOUND TO BE IN GOOD CONDITION, ALL SIGNS FENCES AND GATE WERE LOCKED AND IN GOOD CONDITION. CONTINUE REGULAR INSPECTIONS.

PERSONNEL, Mike Flood - TL  
Glenn Richardson - TM

VISITORS - TED ZAFERAKOS - STATE OF NV

SIGNATURE



DATE

12/12/05

DISCLOSED TO AND UNDERSTOOD BY

DATE

WITNESS

DATE

6/20/2006

RCRA INSPECTIONS - CALLS 90, 92, 110, 112

PERSONNEL: GLENN RICHARDSON BN-ER TASK MGR

SHANGHAN BURNISON BN-ER TECH LEAD

ALISSA SILVA BN-ER TECH LEAD / TASK MGR

VISITORS: TED ZAFERATOS NDEP

KEVIN CARRIE ANUSA

EQUIPMENT: DIGITAL CAMERA

WEATHER: CLEAR, SUNNY, 90's. HAZY HORIZON. LIGHT BREEZE (S) 10 MPH

TAILGATE: SLIPS/TRIPS, ANIMALS & SNAKES, HEAT STRESS, SHARP EDGES & BURS,  
SUBSIDENCE ON AX/BL, DRIVING SAFETY, FIRE/DRYED VEGETATION, COMMUNICATIONS,  
MEDICAL FACILITIES, EMERGENCY PROCEDURES, OCC CALL-IN, URMIA AWARENESS,

SCOPE OF WORK: QUARTERLY OR SEMI-ANNUAL INSPECTIONS AT 4 CALLS (see above)

ACTIVITIES: 08:37: DEPART MERCURY FOR AREA 2

9:15 ARRIVE CALL 90 BITCUTTER - WALK SITE - OPEN GATES & VIEW COVERS &  
MONUMENT SLABS. SOME (SEVERAL) KANGAROO RAT BURROWS ON SOUTH SIDE OFSOUTH UNIT. APPEAR RECENT & ACTIVE. SOME COLLAPSED INACTIVE BURROWS IN  
NORTH UNIT. ALL BURROWS BACKFILLED WITH BOOTS. ALL SIGNS UP. FENCES IN  
GOOD CONDITION. GATES LOCKED & OPERABLE. BRASS MARKERS READABLE & AFIRE.  
SIGNS READABLE BUT SOON TO BE OUT-OF-DATE (BECHTEL NEVADA <sup>PHONE #</sup> WORDING).

DEPART SITE 9:35. PHOTOS TAKEN (SEE CHECKLISTS)

9:45 ARRIVE CALL 110 AX/BL - ACCESS DEPENDENT ON AREA 5 RWMS STAFF.

WAIT FOR STAFF MEMBER TO SHOW TO ALLOW ACCESS, REMINDER PAGED.

10:10 NO WORD ON ACCESS. DEPART FOR CALL 92 IN AREA 6. NO INSPECTION  
OF CALL 110 AT THIS TIME.

SIGNATURE

Shanghan A. Burnison

DATE

6/20/2006

DISCLOSED TO AND UNDERSTOOD BY

DATE

WITNESS

DATE

## **APPENDIX C**

### **INSPECTION PHOTOGRAPHS**

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## PHOTOGRAPH LOG

PHOTOGRAPH NUMBER	DATE	DESCRIPTION
1	12/12/2005	View of west unit looking north.
2	12/12/2005	View of west unit looking east.
3	12/12/2005	View of west unit looking south.
4	12/12/2005	View of east unit looking south.
5	12/12/2005	View of east unit looking west
6	12/12/2005	View of east unit looking north.
7	6/20/2006	View of west unit looking north.
8	6/20/2006	View of west unit looking east.
9	6/20/2006	View of west unit looking south.
10	6/20/2006	View of east unit looking south.
11	6/20/2006	View of east unit looking west.

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12/15/2005

1



12/15/2005

2



12/15/2005  
3



12/15/2005  
4





12/15/2005

5



12/15/2005

6



6/20/2006  
7



6/21/2006  
8





6/20/2006

9



6/21/2006

10



6/20/2006



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