

Nevada
Environmental
Restoration
Project

DOE/NV--794



Post-Closure Inspection Report for
Corrective Action Unit 404: Roller
Coaster Lagoons and Trench
Tonopah Test Range, Nevada
Calendar Year 2001

UNCONTROLLED

Controlled Copy No.: _____

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January 2002

Environmental Restoration
Division

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

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**POST-CLOSURE INSPECTION REPORT FOR
CORRECTIVE ACTION UNIT 404:
ROLLER COASTER LAGOONS AND TRENCH
TONOPAH TEST RANGE, NEVADA
CALENDAR YEAR 2001**

**Prepared for
U. S. Department of Energy
National Nuclear Security Administration
Nevada Operations Office
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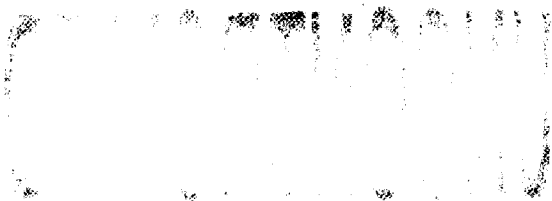
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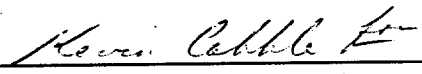
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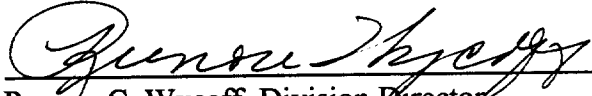
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**POST-CLOSURE INSPECTION REPORT FOR
CORRECTIVE ACTION UNIT 404:
ROLLER COASTER LAGOONS AND TRENCH
TONOPAH TEST RANGE, NEVADA
CALENDAR YEAR 2001**

Approved by: 
Janet L. Appenzeller-Wing, Project Manager
Industrial Sites Project

Date: 1/28/02

Approved by: 
Runore C. Wycoff, Division Director
Environmental Restoration Project

Date: 1-28-02

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LIST OF ACRONYMS AND ABBREVIATIONS

CAU	Corrective Action Unit
cm	centimeter
CR	Closure Report
in	inch
NDEP	Nevada Division of Environmental Protections

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1.0 INTRODUCTION

Post-closure monitoring requirements for the Roller Coaster Lagoons and Trench (Corrective Action Unit [CAU] 404) (Figure 1) are described in Closure Report for Corrective Action Unit 404, Roller Coaster Sewage Lagoons and North Disposal Trench, Tonopah Test Range, Nevada, report number DOE/NV--187, September 1998. The Closure Report (CR) was submitted to the Nevada Division of Environmental Protection (NDEP) on September 11, 1998. Permeability results of soils adjacent to the engineered cover and a request for closure of CAU 404 were transmitted to the NDEP on April 29, 1999. The CR (containing the Post-Closure Monitoring Plan) was approved by the NDEP on May 18, 1999.

As stated in Section 5.0 of the NDEP-approved CR, post-closure monitoring at CAU 404 consists of the following:

- Visual site inspections done twice a year to evaluate the condition of the cover and plant development.
- Verification that the site is secure and condition of the fence and posted warning signs.
- Notice of any subsidence, erosion, unauthorized excavation, etc., deficiencies that may compromise the integrity of the unit.
- Remedy of any deficiencies within 90 days of discovery.
- Preparation and submittal of an annual report.

In addition to the above activities, vegetative monitoring of the cover (a plant census) will be done in the first, third and fifth year following revegetation. (Vegetative monitoring will done in fiscal year 2001, and the results reported in the 2002 Post-Closure Inspection Report.)

Site inspections were conducted on May 16, 2001, and November 6, 2001. The site inspections were conducted after completion of the revegetation activities (October 30, 1997) and NDEP approval of the CR (May 18, 1999). All site inspections were conducted in accordance with the Post-Closure Monitoring Plan in the NDEP-approved CR.

This report includes copies of inspection checklists, photographs, recommendations, and conclusions. The Post-Closure Inspection Checklists are found in Attachment A, a copy of the field notes is found in Attachment B, and copies of the inspection photographs are found in Attachment C.

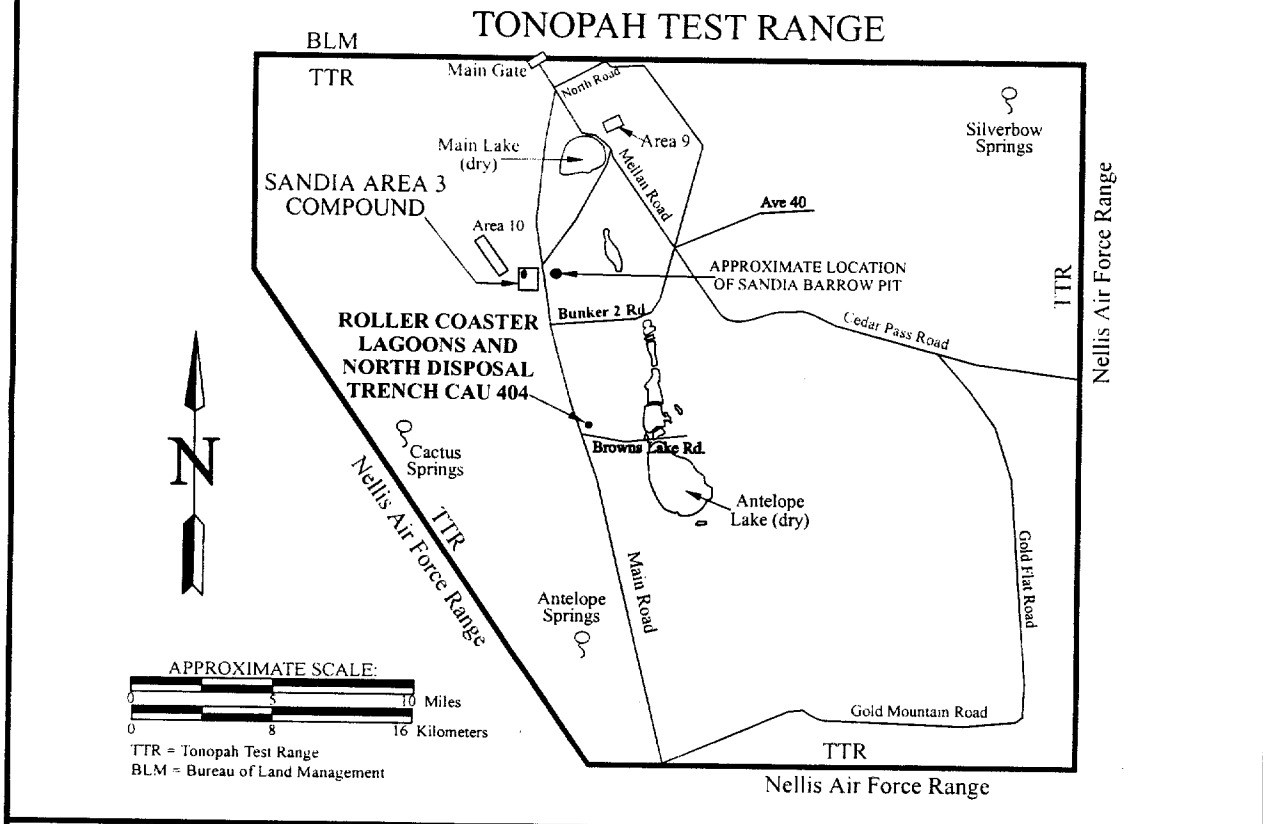
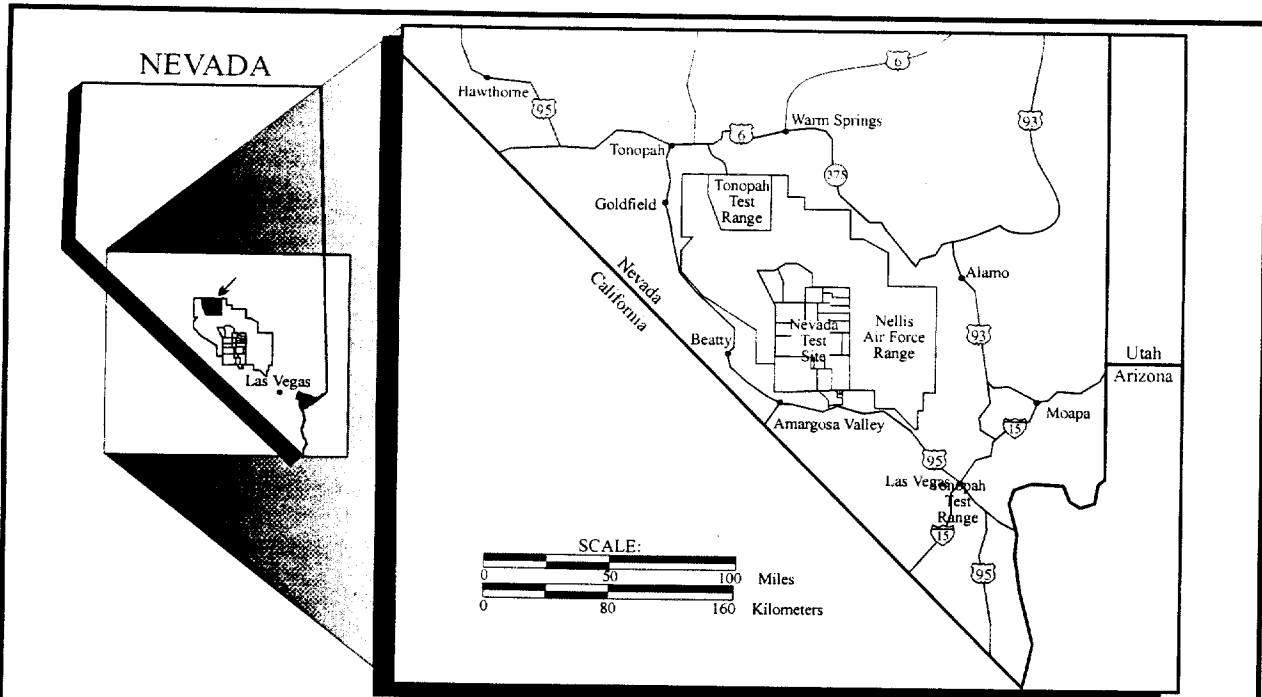


FIGURE 1
ROLLER COASTER LAGOONS AND TRENCH
CAU 404 LOCATION MAP

2.0 INSPECTION RESULTS

2.1 May 16, 2001 Inspection

The first inspection was completed on May 16, 2001. Numerous small mammal burrows were observed along cover side slopes inside the fenced area. The majority of observed burrows were located along the toe of the cover side slopes. The burrows measured approximately 5 centimeters (cm) (2 inches [in]) in diameter. Small animal burrows and scratchings were also present along the fence line, both inside and outside the fence line. The burrows did not effect the integrity of the cover. The fence and the chicken wire mesh fence were in good repair with no apparent holes or breaches in the fencing. Two warning signs that were originally attached to the fence had fallen off at the time of inspection. The signs were propped up in place between the chicken wire and barbed wire. No erosion, subsidence, or cracking of the cover surface was observed. The vegetation inside the fence and on the cover appeared to be healthy and well established. Overall, the cover, fencing, and the area inside the fence were observed to be stable and in good condition. No further maintenance or repairs were recommended.

2.2 November 6, 2001 Inspection

The second inspection was completed on November 6, 2001. Numerous small shallow burrow and scratchings approximately 5 cm (2 in) in width and depth were observed at the toe of the cover side slopes. Small mammal burrows were also present along the perimeter of the fence, both inside and outside the fence. Mammal burrows at the base of the fence were backfilled using a shovel. The wire fence, chicken wire mesh, and gates were all in excellent condition. Small erosion rills present on the cover side slopes were backfilled using a shovel. Two warning signs originally attached to the fence had become unattached. These signs were reattached to the fence using new steel hog rings. The vegetation on the cover and inside the fenced area was well established and healthy, with predominantly native grass and brush species present. There was no evidence of erosion, settling, or cracking to the cover. The integrity of the cover unit was excellent. No further maintenance or repairs were recommended.

3.0 CONCLUSIONS AND RECOMMENDATIONS

Minor grazing by rabbits has been observed; however, the plant population remains diverse. Numerous small mammal burrows are present along the toe of the cover but do not appear to effect the integrity of the cover. Small mammals have burrowed under the fence at several locations: these burrows were backfilled using a shovel. Minor erosion rills and features observed on the cover were backfilled by hand using a shovel. The minor erosion observed does not impact the cover integrity. The overland runoff is being properly diverted around the site. There is no evidence of drainage or erosion through the site. The condition of the cover is

excellent, with a good diversity of plant species growing on the cover and within the fenced area. Overall, the cover area, fencing, posted warning signs, and gates were all in excellent condition. No further maintenance or repairs were recommended.

Vegetation monitoring was conducted during the 2000 site inspections and was reported in the Post-Closure Inspection Report for Corrective Action Unit 404: Roller Coaster Sewage Lagoons and North Disposal Trench, Tonopah Test Range, Nevada Calendar Year 2000 report number DOE/NV--735, June 2001. Vegetation monitoring is recommended for the fifth year (2002) after revegetation as proposed in the CR. Results of the 2002 vegetation monitoring will be reported in the Post-Closure Inspection Report for Calendar Year 2002. No modifications or repairs to the cover, or changes in the frequency of site inspections, are recommended at this time.

Post-Closure Inspection Report
CAU No. 404
Roller Coaster Lagoons & Trench
Revision: 0
Date: January 23, 2002

ATTACHMENT A

INSPECTION CHECKLISTS

Post-Closure Inspection Report
CAU No. 404
Roller Coaster Lagoons & Trench
Revision: 0
Date: January 23, 2002

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CAU 404: ROLLER COASTER LAGOONS & N. DISPOSAL TRENCH, POST-CLOSURE MONITORING CHECKLIST

Date of Last Inspection: 21 Nov 2000

Reason for Last Inspection: 2nd Annual Inspection
Feb-Mar 2000

Responsible Agency: BN-ER DOE-NV

Project Manager: Wayne Johnson BN-ER

Inspection Date: 16 May 2001

Inspector (name, title, organization): Burr Jackson, Task Manager, BN-ER

Assistant Inspector (name, title, organization): Kevin Cabbie, Task Manager, DOE-NV

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.
3. 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, annotated site maps.
4. 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.
5. A standard set of color 35mm photographs is required. In addition, all anomalous features or new features (such as changes in adjacent area land use) are to be photographed. A photo log entry will be made for each photograph taken.
6. This unit will be inspected biannually 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 photo log attached, and recommendations and conclusions.

B. PREPARATION (To be completed prior to site visit)

YES

NO

EXPLANATION

1. Site as-built plans and site base map reviewed.

✓

2. Previous inspection reports reviewed.

✓

a. Were anomalies or trends detected on previous inspections?

✓

b. Was maintenance performed?

✓

3. Site maintenance and repair records reviewed.

✓

NA
No previous repairs

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

✓

NA

b. Are revised as-builts available that reflect repair changes?

✓

NA

C. SITE INSPECTION (To be completed during inspection)

YES

NO

EXPLANATION

1. Adjacent off-site features within watershed areas.

a. Have there been any changes in use of adjacent area?

✓

b. Are there any new roads or trails?

✓

c. Has there been a 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. Change in surrounding vegetation?

✓

2. Security fence, signs.

a. Displacement of fences, site markers, boundary markers, or monuments?

✓

b. Have any signs been damaged or removed?
(Number of signs replaced: 6)

✓

c. Were gates locked?

✓

No locks present

CAU 404: ROLLER COASTER LAGOONS & N. DISPOSAL TRENCH, POST-CLOSURE MONITORING CHECKLIST

3. Waste Unit cover.

- Is there evidence of settling?
- Is there cracking?
- Is there evidence of erosion around the cap (wind or water)?
- Is there evidence of animal burrowing?
- Have the site markers been disturbed by man or natural processes?
- Do natural processes threaten to integrity of any cover or site marker?
- Other?

YES NO EXPLANATION

	✓	
	✓	
✓		minor erosion along western margin of cap
✓		numerous small burrows one large burrow on west edge
	✓	
	✓	
	✓	

4. Vegetative cover.

- Is perimeter fence or mesh fencing damaged?
- Is there evidence of horses or rabbits on site?
- Is organic mulch adequate to prevent erosion?
- Are weedy annual plants present? If yes, are they a problem?
- Are seeded plant species found on site?
- Is there evidence of plant mortality?

	✓	
✓		burrows & droppings
✓	X	Plants well established
	✓	
✓		not a problem
✓		minor

5. Photo Documentation

- Has a photo log been prepared?

✓		
---	--	--

- Number of photos exposed (9)

D. FIELD CONCLUSIONS

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

	✓	
--	---	--

Person/Agency to whom report made:

- Are more frequent inspections required?

	✓	
--	---	--

- Are existing maintenance/repair actions satisfactory?

✓		
---	--	--

- Is other maintenance/repair necessary?

	✓	
--	---	--

- Is current status/condition of vegetative cover satisfactory?

✓	✓	
---	---	--

- Rationale for field conclusions: Cover in good condition.

E. CERTIFICATION

I have conducted an inspection of the Roller Coaster Sewage Lagoons & North Disposal Trench, CAU 404, at the TTR in accordance with the Post-Closure Monitoring Plan (see Closure Report) as recorded on this checklist, attached sheets, field notes, photo logs, and photographs.

Chief Inspector's Signature:

B. J. Jackson

Printed Name:

Brod Jackson

Title:

BV Task Manager

Date:

16 May 2001

CAU 404: ROLLER COASTER LAGOONS & N. DISPOSAL TRENCH, POST-CLOSURE MONITORING CHECKLIST

Date of Last Inspection: *16 May 2001*

Reason for Last Inspection:

Responsible Agency: *NNSA/NU BNER*

Project Manager:

Inspection Date: *6 November 2001*

Inspector (name, title, organization): *Kevin B. Campbell, Technical Lead, BNER*

Assistant Inspector (name, title, organization): *NA*

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, 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 35mm photographs is required. In addition, all anomalous features or new features (such as changes in adjacent area land use) are to be photographed. A photo log entry will be made for each photograph taken.
5. This unit will be inspected biannually 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 photo log attached, and recommendations and conclusions.

B. PREPARATION (To be completed prior to site visit)

YES

NO

EXPLANATION

1. Site as-built plans and site base map reviewed.

✓

2. Previous inspection reports reviewed.

✓

a. Were anomalies or trends detected on previous inspections?

✓

b. Was maintenance performed?

✓

3. Site maintenance and repair records reviewed.

✓

NA no previous records

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

✓

NA

b. Are revised as-builts available that reflect repair changes?

✓

NA

C. SITE INSPECTION (To be completed during inspection)

YES

NO

EXPLANATION

1. Adjacent off-site features within watershed areas.

a. Have there been any changes in use of adjacent area?

✓

b. Are there any new roads or trails?

✓

c. Has there been a 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. Change in surrounding vegetation?

✓

2. Security fence, signs.

a. Displacement of fences, site markers, boundary markers, or monuments?

✓

b. Have any signs been damaged or removed?
(Number of signs replaced: *0*)

✓

Two signs reattached to fence

c. Were gates locked?

✓

no lock present

CAU 404: ROLLER COASTER LAGOONS & N. DISPOSAL TRENCH, POST-CLOSURE MONITORING CHECKLIST

3. Waste Unit cover.

- Is there evidence of settling?
- Is there cracking?
- Is there evidence of erosion around the cap (wind or water)?
- Is there evidence of animal burrowing?
- Have the site markers been disturbed by man or natural processes?
- Do natural processes threaten to integrity of any cover or site marker?
- Other?

YES NO EXPLANATION

	✓	
	✓	
	✓	
✓		numerous small burrows inside fence
	✓	
	✓	
	✓	

4. Vegetative cover.

- Is perimeter fence or mesh fencing damaged?
- Is there evidence of horses or rabbits on site?
- Is organic mulch adequate to prevent erosion?
- Are weedy annual plants present? If yes, are they a problem?
- Are seeded plant species found on site?
- Is there evidence of plant mortality?

	✓	
✓		Small burrows & droppings
✓		Plants very healthy
	✓	
✓		
	✓	

5. Photo Documentation

- Has a photo log been prepared?

✓		
---	--	--

- Number of photos exposed (9)

D. FIELD CONCLUSIONS

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

	✓	
--	---	--

Person/Agency to whom report made:

- Are more frequent inspections required?

	✓	
--	---	--

- Are existing maintenance/repair actions satisfactory?

✓		
---	--	--

- Is other maintenance/repair necessary?

	✓	
--	---	--

- Is current status/condition of vegetative cover satisfactory?

✓		
---	--	--

- Rationale for field conclusions: *Cover appears in excellent condition. No evidence of cracking, subsidence or major erosion. Fencing & signs all in excellent shape.*

E. CERTIFICATION

I have conducted an inspection of the Roller Coaster Sewage Lagoons & North Disposal Trench, CAU 404, at the TTR in accordance with the Post-Closure Monitoring Plan (see Closure Report) as recorded on this checklist, attached sheets, field notes, photo logs, and photographs.

Chief Inspector's Signature: *Kevin B. Campbell*

Printed Name: *Kevin B. Campbell*

Title: *BN Technical Lead*

Date: *6 November 2001*

Post-Closure Inspection Report
CAU No. 404
Roller Coaster Lagoons & Trench
Revision: 0
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ATTACHMENT B

FIELD NOTES

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16 May 01

~ 1430 - Bomblet Pit

- Walk the fence line to visually inspect the site.

The fenced area was well covered with vegetation

5 and was in good condition. Numerous intact & half bomblets were present adjacent to the fence on the exterior of the site. Several bomblets were also present within the fenced area.

10 ~ 1500 - Roller Coaster Sewage Lagoons

- Walked the exterior fence line of site. The site was in good condition and well covered with vegetation. Two posted fence signs were down.

15 A large burrow was present on the east side of the cap margin and a large animal appeared to be present in the burrow at the time of inspection.

Two pieces of red-clay pipe were present on the south east margin of the fenced area near the base of the cap slope. The pipe appeared to extend underground. No notable signs of erosion were observed.

20

~ 1545 - Cactus Springs Waste Trenches.

- Walked the exterior fence line to visually inspect the site.

The site and fencing were in good condition and well

25 covered with vegetation. No signs of erosion were observed. The exterior of the east margin of the site contained a large quantity of tumble weeds.

SIGNATURE

DATE

5/16/01

DISCLOSED TO AND UNDERSTOOD BY

DATE

WITNESS

DATE

Roller Coaster Sewage Lagoon (CAU 404)

1223 Arrive on site.

Gates, fence, signs all in excellent condition.

Cover vegetation healthy and more dense than outside fence.

5 Small burrows present at base of fence line, back filled by hand.

Numerous small mammal burrows present inside fence. bunny fencing is not buried as at other sites allowing animals access under fencing.

No burrows present on top of raised area.

No evidence of erosion of cover side slopes.

10 Drainage swail north of cover in excellent condition - no apparent erosion.

Reattached two signs with lag rings.

1300 Depart site

1310 Rollercoaster Rad Site site (CAU 407)

15 Barbed wire fencing in good condition. No bunny fencing present.

Postings "Underground Radioactive Material" still up/in place.

Vegetation inside fence very healthy.

Numerous small mammal burrows present inside fenced area and on side slopes of cover.

20 No threat to integrity of cover.

All signs in good shape.

1326 Depart site

1335 A3-4 site (CAU 423)

25 All 5 above-grade monuments in good condition.

All attached signs in good condition.

Vegetation mainly heliotropis some native species all healthy but sparse.

Many small mammal burrows present.

SIGNATURE



DATE 11/6/01

6/11/01

DISCLOSED TO AND UNDERSTOOD BY

DATE

WITNESS

DATE

Post-Closure Inspection Report
CAU No. 404
Roller Coaster Lagoons & Trench
Revision: 0
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ATTACHMENT C

PHOTOGRAPH LOG AND PHOTOGRAPHS

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PHOTOGRAPH LOG

PHOTO NUMBER	DATE	DESCRIPTION
1	05/16/2001	View to the east along southern fence line.
2	05/16/2001	View of cover looking northwest from southeast fence corner.
3	05/16/2001	View to the northeast along northern fence line.
4	05/16/2001	View of the east of cover from inside fence line. Note the presence of sparse healthy native grass and brush species.
5	11/06/2001	View looking east from outside fence at site.
6	11/06/2001	View looking east at cover from inside fence. Note the presence of sparse healthy native grass and shrub species on and about cover.
7	11/06/2001	Small mammal burrow holes inside fence line.
8	11/06/2001	View to southwest of cover and associated revegetated area.

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1



2



3



4



11/06/2001

5



11/06/2001

6



7



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