

Nevada  
Environmental  
Restoration  
Project

DOE/NV--1072



Closure Report for  
Corrective Action Unit 286:  
Lead/Chemical/Spill Sites, and  
Material Dumps, Nevada Test  
Site, Nevada

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

Revision: 0

August 2005

Environmental Restoration  
Division

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



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**CLOSURE REPORT  
FOR CORRECTIVE ACTION UNIT 286:  
LEAD/CHEMICAL/SPILL SITES  
AND MATERIAL DUMPS,  
NEVADA TEST SITE, NEVADA**

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

**Controlled Copy No: \_\_\_\_\_**

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**CLOSURE REPORT  
FOR CORRECTIVE ACTION UNIT 286:  
LEAD/CHEMICAL/SPILL SITES  
AND MATERIAL DUMPS,  
NEVADA TEST SITE, NEVADA**

Approved By: SIGNATURE APPROVED  
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Date: 8/2/05

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## ACRONYMS AND ABBREVIATIONS

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BN	Bechtel Nevada
CAS	Corrective Action Site
CAU	Corrective Action Unit
EPA	U.S. Environmental Protection Agency
ft	foot (feet)
ft <sup>3</sup>	cubic foot (feet)
FFACO	Federal Facility Agreement and Consent Order
mg/kg	milligram(s) per kilogram
NDEP	Nevada Division of Environmental Protection
NNSA/NSO	U.S. Department of Energy, National Nuclear Security Administration Nevada Site Office
PRG	Preliminary Remediation Goal(s)
RAD	radiation
yd <sup>3</sup>	cubic yard(s)

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## **EXECUTIVE SUMMARY**

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Corrective Action Unit (CAU) 286 consists nine Corrective Action Sites (CASs) located in Areas 1, 2, 3, 4, and 6 of the Nevada Test Site. The closure activities performed at each CAS are listed below.

- CAS 01-26-02, Lead Sheets; Lead Lined Pit: Clean-closed with no further action necessary.
- CAS 02-26-02, Lead Pipes/RAD Area: Clean-closed with no further action necessary.
- CAS 02-26-10, Lead Shot: Clean-closed with no further action necessary.
- CAS 02-99-06, Material Dump: Clean-closed with no further action necessary.
- CAS 03-25-02, Oil Spills: Clean-closed with no further action necessary.
- CAS 03-29-01, Methyl Alcohol Bottle: No action taken, because debris had been previously removed.
- CAS 03-29-02, Acid Box; Chemicals: No action taken, because debris had been previously removed.
- CAS 04-99-03, Oil (Quart): No action taken due to inaccessability of identified oil can.
- CAS 06-14-01, Radiation Counting Shield (Lead): No action taken, because debris had been previously removed.

Five CASs that were originally part of CAU 286 were transferred out of CAU 286 and into CAU 5000. The transfers were approved by the Nevada Division of Environmental Protection and copies of the approval letters are included in Appendix D of this report. The following five CASs were transferred out of CAU 286 and into CAU 5000 on the dates indicated:

- CAS 02-26-01, Lead (Concrete Box w/Lining), on December 2, 2004
- CAS 02-26-07, Gun Turret w/Lead in Barrel, on May 4, 2004
- CAS 04-26-02, Lead on Instrument Bunker, on December 2, 2004
- CAS 10-23-01, Metal Debris (RAD), on May 24, 2005
- CAS 18-99-08, Cores in Boxes, on May 24, 2005

Note: CAS 10-23-01 and 18-99-08 were originally part of CAU 210 and CAU 167 respectively. These CASs were transferred into CAU 286 on April 15, 2004 and were subsequently transferred to CAU 5000 on May 24, 2005.

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## 1.0 INTRODUCTION

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This report documents that the closure activities conducted for Corrective Action Unit (CAU) 286: Lead/Chemical/Spill Sites and Material Dumps met the approved closure standards. CAU 286 is listed in Appendix III of the *Federal Facility Agreement and Consent Order* (FFACO, 1996) and consists of nine Corrective Action Sites (CAS) located in Areas 1, 2, 3, 4, and 6 of the Nevada Test Site (Figure 1):

- CAS 01-26-02 Lead Sheets; Lead Lined Pit
- CAS 02-26-02 Lead Pipes/RAD (radiation) Area
- CAS 02-26-10 Lead Shot
- CAS 02-99-06 Material Dump
- CAS 03-25-02 Oil Spills
- CAS 03-29-01 Methyl Alcohol Bottle
- CAS 03-29-02 Acid Box; Chemicals
- CAS 04-99-03 Oil (Quart)
- CAS 06-14-01 Radiation Counting Shield (Lead)

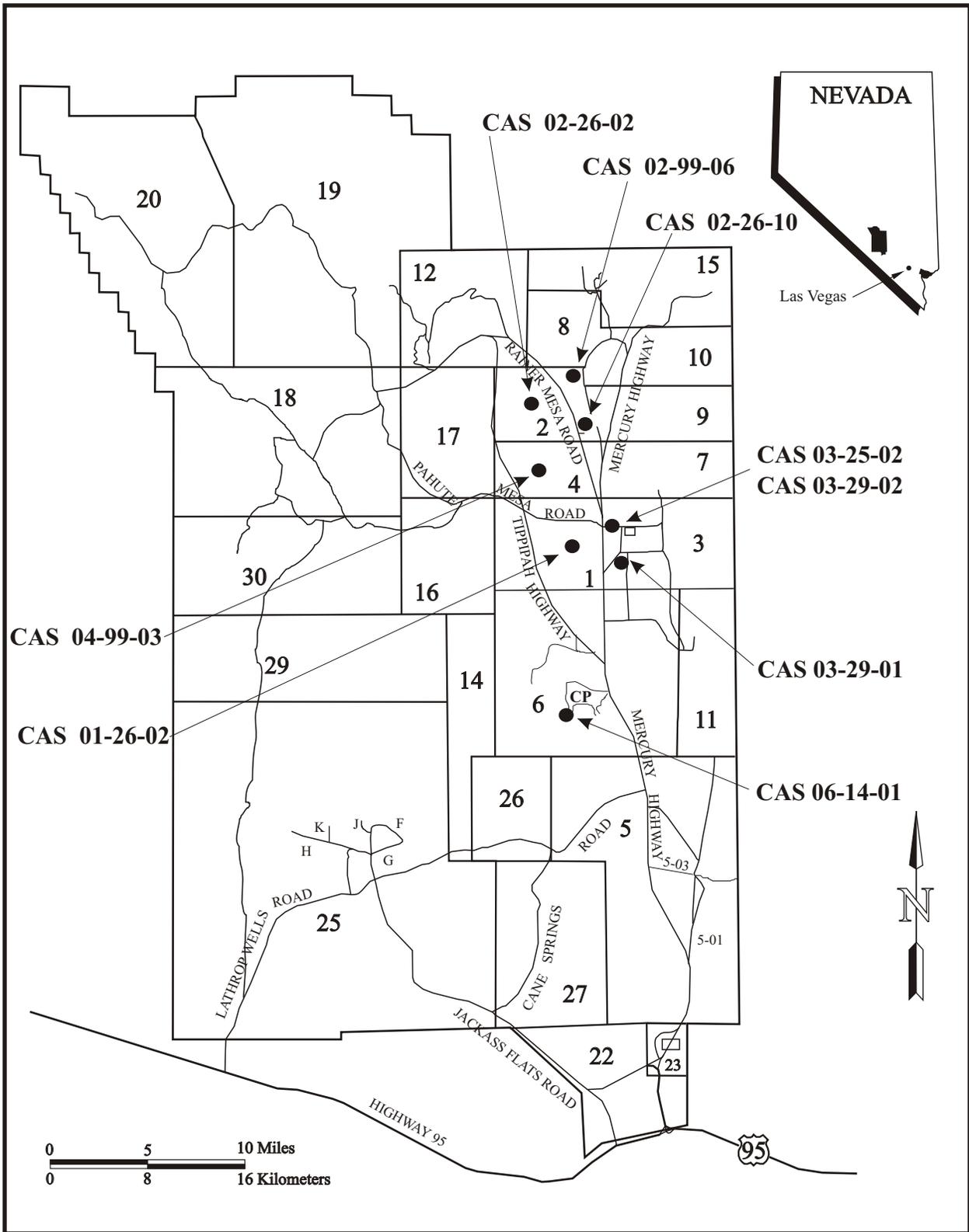
At three of the CASs, it was documented that the waste had been previously removed from the site. One additional CAS no longer had waste onsite. However, due to the availability of photographs showing the exact location of the former waste, verification samples were collected. Closure activities at the remaining CASs consisted of documenting current site conditions, identifying and removing debris and contaminated soil, classifying and disposing of the generated waste, collecting and analyzing soil verification samples, and verifying by visual inspection that each site was clean of debris.

Copies of analytical results for verification samples are included in Appendix A. Copies of the “Sectorized Housekeeping Site Closure Verification Forms” are included in Appendix B. A copy of the “National Environmental Policy Act Evaluation Checklist” for CAU 286 is included in Appendix C.

Five CASs that were originally part of CAU 286 were transferred out of CAU 286 and into CAU 5000. The transfers were approved by the Nevada Division of Environmental Protection and copies of the approval letters are included in Appendix D of this report. The following five CASs were transferred out of CAU 286 and into CAU 5000 on the dates indicated:

- CAS 02-26-01, Lead (Concrete Box w/Lining), on December 2, 2004
- CAS 02-26-07, Gun Turret w/Lead in Barrel, on May 4, 2004
- CAS 04-26-02, Lead on Instrument Bunker, on December 2, 2004
- CAS 10-23-01, Metal Debris (RAD), on May 24, 2005
- CAS 18-99-08, Cores in Boxes, on May 24, 2005

Note: CAS 10-23-01 and 18-99-08 were originally part of CAU 210 and CAU 167 respectively. These CASs were transferred into CAU 286 on April 15, 2004 and were subsequently transferred to CAU 5000 on May 24, 2005.



**FIGURE 1**  
**CAU 286 SITE LOCATION MAP**

## **2.0 CLOSURE ACTIVITIES**

---

This section details the specific closure activities completed for CAU 286: Lead/Chemical/Spill Sites and Material Dumps.

### **2.1 DESCRIPTION OF CLOSURE ACTIVITIES**

#### **2.1.1 Preplanning and Site Preparation**

Planning documents prepared prior to the beginning of closure activities include the following:

- Sectored Clean-up Work Plan For Housekeeping Category Waste Sites (U.S. Department of Energy, National Nuclear Security Administration Nevada Site Office [NNSA/NSO], 2003).
- Generic Field Management Plan for Housekeeping Category Waste Sites (NNSA/NSO, 2005).
- Site-Specific Health and Safety Plan for Corrective Action Units 167, 210, 286, 390, and 395 Housekeeping Sites, Nevada Test Site, Nevada, Revision 1, (Bechtel Nevada [BN], 2005).
- BN Solid Waste Operations Work Packages.
- NNSA/NSO Real Estate/Operation Permit.

### **2.2 WASTE CLASSIFICATION ACTIVITIES**

None of the sites required waste classification activities.

### **2.3 SITE CLOSURE ACTIVITIES**

Appendix B includes the "Housekeeping Site Closure Verification Forms," including site information and before-and-after site photographs.

#### **2.3.1 CAS 01-26-02: Lead Sheets; Lead Lined Pit**

On June 1, 2005, the pit was excavated and removed. The pit consisted of a 4-foot (ft) diameter steel casing that extended to a depth of 6 ft below grade. During the investigation, the pit wall was noted to be constructed of steel, and no lead lining was present. The pit was filled with 4 ft of trash that included plastic, scrap metal, paper, and wood scrap covered with 2 ft of soil. The trash was screened for radiological constituents and was disposed of as sanitary waste at the U10c Landfill. A total of 15 cubic yards (yd<sup>3</sup>) of material, including the steel pit wall, trash, and soil, were disposed of as construction debris. No further action is required at this site.

#### **2.3.2 CAS 02-26-02: Lead Pipes/Radiation (RAD) Area**

The lead pipes were no longer located at the site. However, their former location was determined by examining a photograph taken in 1990. A total of three verification samples (022602-1, 022602-3, and 022602-3) were collected from the former location of the pipes on November 7, 2003. The samples were submitted for laboratory analysis for total lead. Laboratory results showed lead concentrations less than the U.S. Environmental Protection

Agency (EPA) Region 9 Preliminary Remediation Goal (PRG) for lead in soil at industrial sites (EPA, 2002). Therefore, no further action is required at this site.

### **2.3.3 CAS 02-26-10: Lead Shot**

On June 1, 2005 approximately 2 cubic feet (ft<sup>3</sup>) of lead shot and associated soil were removed from this CAS and staged for later disposal as hazardous waste. One verification sample (022610-V1) was collected from the bottom of the excavation and submitted for laboratory analysis of total lead. Laboratory results showed a lead concentration less than the PRG (EPA, 2002). Therefore, no further action is required at this site.

### **2.3.4 CAS 02-99-06: Material Dump**

The site consisted of three small piles of concrete totaling approximately 5 yd<sup>3</sup> of material. The material was removed mechanically from the ground surface and transported for disposal at the Area 9 U10c Landfill. No further action is required at this site.

### **2.3.5 CAS 03-25-02: Oil Spills**

This CAS consisted of approximately 2 ft<sup>3</sup> of dried asphalt that was located on a concrete pad. The material was removed and transported to the Area 9 U10c Landfill for disposal. No further action is required at this site.

### **2.3.6 CAS 03-29-01: Methyl Alcohol Bottle**

The bottle that was identified in the 1990 Site Inventory was no longer present in the shed on the rear of the Huron King Test Vehicle. No further action is required at this site.

### **2.3.7 CAS 03-29-02: Acid Box; Chemicals**

The box that was identified in the 1990 Site Inventory was previously removed from the site. The building in which it was located has also since been demolished. No evidence of staining was noted on the concrete building pad. No further action is required at this site.

### **2.3.8 CAS 04-99-03: Oil (Quart)**

The site consists of an oil can that was reportedly located at the bottom of a bunker entrance shaft. The shaft was approximately 20-ft deep. Due to safety concerns, the bunker shaft was not entered and the shaft lid was closed. No further action is required at this site.

### **2.3.9 CAS 06-14-01: Radiation Counting Shield (Lead)**

This counting shield identified in the 1990 Site Inventory was no longer on site. The buildings in the area had also since been demolished. No further action is required at this site.

### **3.0 WASTE DISPOSITION**

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Waste generated during the closure of CAU 286 was disposed as follows:

- CAS 01-26-02: Approximately 15 yd<sup>3</sup> of material was transported for disposal at U10c Landfill.
- CAS 02-26-02: No waste generated.
- CAS 02-26-10: Approximately 2 ft<sup>3</sup> of lead shot and associated soil were disposed of offsite as hazardous waste.
- CAS 02-99-06: Approximately 5 yd<sup>3</sup> of concrete was transported for disposal at U10c Landfill.
- CAS 03-25-02: Approximately 2 ft<sup>3</sup> of asphalt was transported for disposal at U10c Landfill.
- CAS 03-29-01: No waste generated.
- CAS 03-29-02: No waste generated.
- CAS 04-99-03: No waste generated.
- CAS 06-14-01: No waste generated.

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## 4.0 CLOSURE VERIFICATION

Closure activities at two CASs (CAS 02-26-02 and CAS 02-26-10) included collecting soil verification samples. Copies of the analytical results for the verification samples are included in Appendix A. Copies of the "Sector Housekeeping Site Closure Verification Forms" for the CASs are included in Appendix B.

Samples were collected from a total of four locations after the removal of waste or from the surface in the location of waste that was previously removed. The samples were collected with clean disposable plastic scoops, placed in labeled sample containers, and secured with custody seals. The sample containers were placed on ice in a cooler and maintained at less than 4 degrees Celsius. The samples were then transported under chain of custody to the BN Sample Management Group in Mercury, Nevada, and shipped to an offsite laboratory for analysis.

At CAS 02-26-02, a total of three verification samples (022602-1, 022602-3, and 022602-3) were collected on November 7, 2003, from the former location of lead pipes. At CAS 02-26-10, one verification sample (022610-V1) was collected from the bottom of the shallow excavation.

All four samples were submitted for laboratory analysis of total lead. Laboratory results showed lead concentrations less than the EPA Region 9 PRG for soil at industrial sites (EPA, 2002). The analytical results are summarized in Table 1. Copies of the analytical reports are included in Appendix A.

**TABLE 1. SUMMARY OF ANALYTICAL RESULTS FOR VERIFICATION SAMPLES**

SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE DEPTH (feet)	TOTAL LEAD <sup>A</sup> (mg/kg)
PRG for Lead			750
022602-1	November 7, 2003	Surface	<2.5
022602-2	November 7, 2003	Surface	17
022602-3	November 7, 2003	Surface	300
022610-V1	June 1, 2005	1	91.0

<sup>a</sup> Total Lead samples analyzed by U.S. Environmental Protection Agency (EPA) SW-846 Method 6010B (EPA, 1996). See analytical reports in Appendix A for laboratory detection limits.

\* mg/kg = milligrams per kilogram

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## 5.0 SUMMARY AND RECOMMENDATIONS

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### 5.1 SUMMARY

The following closure activities were completed at the CASs in CAU 286:

- CAS 01-26-02, Lead Sheets; Lead Lined Pit: Clean-closed by excavation and disposal of the steel pit wall and associated trash at U10c Landfill. No further action necessary.
- CAS 02-26-02, Lead Pipes/RAD Area: Clean-closed by collecting verification samples in the former locations of the pipes that were previously removed. No further action necessary.
- CAS 02-26-10, Lead Shot: Clean-closed by removal of 2 ft<sup>3</sup> of lead shot and associated soil for offsite disposal as hazardous waste. No further action necessary.
- CAS 02-99-06, Material Dump: Clean-closed by disposal of approximately 5 yd<sup>3</sup> of concrete at U10c Landfill. No further action necessary.
- CAS 03-25-02, Oil Spills: Clean-closed by disposal of 2 ft<sup>3</sup> of broken-up asphalt at U10c Landfill. No further action necessary.
- CAS 03-29-01, Methyl Alcohol Bottle: No action taken, because debris was previously removed.
- CAS 03-29-02, Acid Box; Chemicals: No action taken, because debris was previously removed.
- CAS 04-99-03, Oil (Quart): No action taken due to access restrictions to waste and personnel safety concerns. Bunker shaft lid has been closed for safety reasons.
- CAS 06-14-01, Radiation Counting Shield (Lead): No action taken, because debris was previously removed.

### 5.2 RECOMMENDATIONS

Because closure activities for CAU 286 have been completed following the Nevada Division of Environmental Protection (NDEP)-approved *Sectorized Clean-up Work Plan for Housekeeping Category Waste Sites* (NNSA/NSO, 2003) as documented in this report, NNSA/NSO requests the following:

1. NDEP provide a "Notice of Completion" to the NNSA/NSO for the closure of CAU 286.
2. CAU 286 be transferred from Appendix III to Appendix IV of the FFACO *Closed Corrective Action Units* (FFACO, 1996).

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## 6.0 REFERENCES

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BN, see Bechtel Nevada.

Bechtel Nevada. 2005. Site-Specific Health and Safety Plan for Corrective Action Sites 167, 210, 286, 390, and 395, Nevada Test Site, Nevada, Rev. 1. Las Vegas, NV.

EPA, see U.S. Environmental Protection Agency.

FFACO, see Federal Facility Agreement and Consent Order.

Federal Facility Agreement and Consent Order. 1996 (as amended). Agreed to by the State of Nevada, U.S. Department of Energy, and U.S. Department of Defense.

NDEP, see Nevada Division of Environmental Protection.

NNSA/NSO, see U.S. Department of Energy, National Nuclear Security Administration Nevada Site Office.

U.S. Department of Energy, National Nuclear Security Administration Nevada Site Office. 2005. Generic Field Management Plan for Housekeeping Category Waste Sites, Revision 2, Las Vegas, NV.

U.S. Department of Energy, National Nuclear Security Administration Nevada Site Office. 2003. Sectored Clean-up Work Plan for Housekeeping Category Waste Sites, DOE/NV--579-REV-3. Las Vegas, NV.

U.S. Environmental Protection Agency. 1996. Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, EPA Publication SW-846, Third Edition. Washington, D.C.

U.S. Environmental Protection Agency. 2002. Region IX Preliminary Remediation Goals (PRGs), San Francisco, CA.

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**APPENDIX A**  
**SAMPLE ANALYTICAL RESULTS**

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## **APPENDIX A. SAMPLE ANALYTICAL RESULTS BY SAMPLE DELIVERY GROUP**

Analytical results for the samples collected at the indicated Corrective Action Site (CAS) for Corrective Action Unit 286 are presented in this Appendix. The analytical results are grouped by Sample Delivery Group, which are arranged in numerical order in this Appendix. Analytical results for the specific CAS can be found by consulting the indicated Sample Delivery Group.

<u>CAS</u>	<u>Sample Delivery Group</u>	<u>Analysis</u>
02-26-02	V2128	Total Lead
02-26-10	V2480	Total Lead

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**SAMPLE DELIVERY GROUP**

**V2128**

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**NEL Laboratories, Las Vegas**

**Date:** 19-Nov-03

**CLIENT:** Bechtel Nevada  
**Lab Order:** L0311189  
**Project:** V2128  
**Lab ID:** L0311189-001

**Client Sample ID:** 022602-1  
**Collection Date:** 11/7/03 2:30:00 PM  
**Matrix:** SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS, TOTAL		<b>SW6010B</b>				Analyst: VVG-I
Lead	ND	2.5		mg/Kg	1	11/19/03 1:14:00 PM

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range

# NEL Laboratories, Las Vegas

Date: 19-Nov-03

CLIENT: Bechtel Nevada  
Lab Order: L0311189  
Project: V2128  
Lab ID: L0311189-002

Client Sample ID: 022602-2  
Collection Date: 11/7/03 2:40:00 PM  
Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS, TOTAL		<b>SW6010B</b>				Analyst: VVG-I
Lead	17	2.5		mg/Kg	1	11/19/03 1:27:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range

**NEL Laboratories, Las Vegas**

Date: 19-Nov-03

CLIENT: Bechtel Nevada  
Lab Order: L0311189  
Project: V2128  
Lab ID: L0311189-003

Client Sample ID: 022602-3  
Collection Date: 11/7/03 2:50:00 PM  
Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS, TOTAL		<b>SW6010B</b>				Analyst: VVG-I
Lead	300	2.5		mg/Kg	1	11/19/03 1:31:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range

**SAMPLE DELIVERY GROUP**

**V2480**

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**APPENDIX B**

**SECTORED HOUSEKEEPING  
SITE CLOSURE VERIFICATION FORMS**

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## Sectored Housekeeping Site Closure Verification Form

**Closure Verification Date:** 06-01-2005

**CAU Number:** 286

**CAS Number:** 01-26-02

**CAS Description:** Lead Sheets; Lead Lined Pit

**Sector Designation:** NTS Sector E

**Housekeeping Site General Location:** Apple II Brick House Area

**Elevation:** 4,080 feet

**Northing:** 4,100,060 m (UTM Zone 11)

**Easting:** 582,654 m (UTM Zone 11)

**Latitude:** 37.04312

**Longitude:** -116.07054

**Coordinate/Elevation Data Obtained from:** North American Datum, 1983.

Site Access Route: Mercury Highway north to Pahute Mesa Road. Turn left (west) onto Pahute Mesa Road and travel 1.5 miles. At this point, turn south and proceed 0.5 mile to a dirt road on the left (east). Turn left and proceed 0.5 mile to a brick structure. The site is approximately 0.08 mile west of the brick structure.

Waste Item(s) Originally at Site	Apparent Waste Type*
Instrument pit listed as lead-lined.	Sanitary. Pit was not lead-lined.

\* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other



Housekeeping Site Before Closure  
Rim of pit was partially visible at the surface.  
(Taken 05/31/2005)



Housekeeping Site After Closure  
(taken 06/01/2005)

**Current Site Description/Observations:** The pit was excavated and disposed of at U10c Landfill. The pit was found not to be lead-lined and was filled with trash. The excavation was backfilled with clean fill. No waste remains onsite.

**No Further Action Required at Housekeeping Site**

**Reed J. Poderis, CEM**

**Corrective Action Coordinator/Designee**

**SIGNATURE APPROVED**

**Signature**

**8/10/05**

**Date**

## Sectored Housekeeping Site Closure Verification Form

**Closure Verification Date:** 11/07/2003

**CAU Number:** 286

**CAS Number:** 02-26-02

**CAS Description:** Lead Pipes/RAD Area

**Sector Designation:** NTS Sector F

**Housekeeping Site General Location:** RSM 2 N 8

**Elevation:** 4,480 feet

**Northing:** 4,111,540 m (UTM Zone 11)

**Easting:** 578,338 m (UTM Zone 11)

**Latitude:** 37.13795

**Longitude:** -116.11798

**Coordinate/Elevation Data Obtained from:** North American Datum, 1983.

Site Access Route: Mercury Highway north to Rainier Mesa Road. Turn left (northwest) on Rainier Mesa Road and proceed to 2-04 Road. Turn left (west) on 2-04 Road and continue approximately 2.1 miles. The site is located on the right side of the road, approximately 7 ft north of a radiation fence and approximately 100 ft east of RSM 2 N 8.

Waste Item(s) Originally at Site	Apparent Waste Type*
Lead Pipes	None. Pipes previously removed.

\* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other



Original Site Inventory Photograph  
(Taken 10/10/1990)



Housekeeping Site Closure Verification  
(taken 11/07/2003)

**Current Site Description/Observations:** The pipes were no longer on site by the site visit in 2003. Verification samples did not detect lead in soil above the Preliminary Remediation Goal. No waste remains onsite.

**No Further Action Required at Housekeeping Site**

**Reed J. Poderis, CEM**

**Corrective Action Coordinator/Designee**

**SIGNATURE APPROVED**

**Signature**

**8/10/05**

**Date**

## Sectored Housekeeping Site Closure Verification Form

**Closure Verification Date:** 06/01/2005

**CAU Number:** 286

**CAS Number:** 02-26-10

**CAS Description:** Lead Shot

**Sector Designation:** NTS Sector F

**Housekeeping Site General Location:** U2gb

**Elevation:** 4,220 feet

**Northing:** 4,109,220 m (UTM Zone 11)

**Easting:** 583,347 m (UTM Zone 11)

**Latitude:** 37.12562

**Longitude:** -116.06173

**Coordinate/Elevation Data Obtained from:** North American Datum, 1983.

Site Access Route: Mercury Highway north to 9-01 Road. Turn onto 9-01 Road and proceed east to Circle Road. Turn right (south) on Circle Road and travel 0.65 mile to 2D Road. Turn right (west) on 2D Road and proceed 0.2 mile to a fork in the road. Take the left fork and proceed around the U-2bg Potential Crater. The marker and lead shot lie on the northwest side of the crater fenceline.

Waste Item(s) Originally at Site	Apparent Waste Type*
Lead Shot	Hazardous

\* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other

	
Housekeeping Site Before Closure Activities (taken 06/01/2005)	Housekeeping Site After Closure Activities (taken 06/01/2005)

**Current Site Description/Observations:** Approximately 2 cubic feet of lead shot and associated soil were disposed of as hazardous waste. Verification sample confirmed no lead remained on site above preliminary remediation goals closure results. No waste remains on site.

**No Further Action Required at Housekeeping Site**

Reed J. Poderis, CEM

Corrective Action Coordinator/Designee

SIGNATURE APPROVED

Signature

8/10/05

Date

## Sectored Housekeeping Site Closure Verification Form

**Closure Verification Date:** 06/02/2005

**CAU Number:** 286

**CAS Number:** 02-99-06

**CAS Description:** Material Dump

**Sector Designation:** NTS Sector F

**Housekeeping Site General Location:** U-2bp PS #2

**Elevation:** 4,320 feet

**Northing:** 4,113,155 m (UTM Zone 11)

**Easting:** 583,084 m (UTM Zone 11)

**Latitude:** 37.16111

**Longitude:** -116.06425

**Coordinate/Elevation Data Obtained from:** North American Datum, 1983.

Site Access Route: Mercury Highway north to Rainier Mesa Road. Turn left (west) on Rainier Mesa Road and proceed to 2-07 Road. Turn right (east) on 2-07 Road and continue 1.2 miles to a faint dirt road on the right (south). Turn right on the dirt road and proceed 0.3 miles. The site is on the left (east) side of the dirt road. The site is located at U-2bj PS #1A, as stated in the original Reynolds Electrical & Engineering Co., Inc., Inventory.

Waste Item(s) Originally at Site	Apparent Waste Type*
Concrete Pile	Sanitary

\* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other

	
Housekeeping Site Before Closure Activities (taken 06/02/2005)	Housekeeping Site After Closure Activities (taken 06/02/2005)

**Current Site Description/Observations:** Approximately 5 cubic yards of concrete were disposed of as sanitary waste at the U10c Landfill. No waste remains onsite.

**No Further Action Required at Housekeeping Site**

Reed J. Poderis, CEM

SIGNATURE APPROVED

8/10/05

Corrective Action Coordinator/Designee

Signature

Date

## Sectored Housekeeping Site Closure Verification Form

**Closure Verification Date:** 06/02/2005

**CAU Number:** 286

**CAS Number:** 03-25-02

**CAS Description:** Oil Spills

**Sector Designation:** NTS Sector E

**Housekeeping Site General Location:** Area 3 Subdock

**Elevation:** 4,050 feet

**Northing:** 4,100,906 m (UTM Zone 11)

**Easting:** 584,249 m (UTM Zone 11)

**Latitude:** 37.16111

**Longitude:** -116.06425

**Coordinate/Elevation Data Obtained from:** North American Datum, 1983.

Site Access Route: Mercury Highway north approximately 0.15 mile past 3-03 Road. The debris pile is located just east of the telephone poles.

Waste Item(s) Originally at Site	Apparent Waste Type*
Deteriorated Asphalt	Sanitary

\* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other



Housekeeping Site Before Closure Activities  
(taken 06/01/2005)



Housekeeping Site After Closure Activities  
(taken 06/01/2005)

**Current Site Description/Observations:** Approximately 2 cubic feet of deteriorated asphalt were disposed of as sanitary waste at the U10C Landfill. No waste remains onsite.

**No Further Action Required at Housekeeping Site**

**Reed J. Poderis, CEM**

**Corrective Action Coordinator/Designee**

**SIGNATURE APPROVED**

**Signature**

**8/10/05**

**Date**



## Sectored Housekeeping Site Closure Verification Form

**Closure Verification Date:** 07/23/2003

**CAU Number:** 286

**CAS Number:** 03-29-02

**CAS Description:** Acid Box; Chemicals

**Sector Designation:** NTS Sector E

**Housekeeping Site General Location:** Core/ETS Building

**Elevation:** 4,030 feet

**Northing:** 4,100,747 m (UTM Zone 11)

**Easting:** 584,851 m (UTM Zone 11)

**Latitude:** 37.04912

**Longitude:** -116.04576

**Coordinate/Elevation Data Obtained from:** North American Datum, 1983.

Site Access Route: Mercury Highway north to 3-03 Road. Turn right (east) on 3-03 Road and proceed approximately 0.4 mile to the old Core Building on the left (north) side of the road.

Waste Item(s) Originally at Site	Apparent Waste Type*
Small box of acid and chemical jars	None, waste previously removed.
* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other	
None Available	
Housekeeping Site Before Closure Activities	Current Site Condition (taken 07/23/2003)

**Current Site Description/Observations:** Waste was previously removed. No waste remains onsite.

**No Further Action Required at Housekeeping Site**

**Reed J. Poderis, CEM**

**SIGNATURE APPROVED**

**8/10/05**

**Corrective Action Coordinator/Designee**

**Signature**

**Date**

## Sectored Housekeeping Site Closure Verification Form

**Closure Verification Date:** 07/23/2003

**CAU Number:** 286

**CAS Number:** 04-99-03

**CAS Description:** Oil (Quart)

**Sector Designation:** NTS Sector E

**Housekeeping Site General Location:** Bunker 4-380

**Elevation:** 4,340 feet

**Northing:** 4,105,792 m (UTM Zone 11)

**Easting:** 579,206 m (UTM Zone 11)

**Latitude:** 37.09508

**Longitude:** - 116.10871

**Coordinate/Elevation Data Obtained from:** North American Datum, 1983.

Site Access Route: Mercury Highway north to Rainier Mesa Road. Turn left (northwest) on Rainier Mesa Road and proceed to 4-04 Road. Turn left (west) and proceed 2.3 miles to Bunker 4-380, on the north side of the road.

Waste Item(s) Originally at Site	Apparent Waste Type*
Oil Quart Can	None, access restricted due to safety concerns.

\* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other



Housekeeping Site Before Closure Activities. Photograph down shaft. (taken 07/23/2003)	Current Site Condition (taken 06/13/2005)
--	--

**Current Site Description/Observations:** Due to access restrictions, the can was not retrieved from the bunker entrance shaft. Cover was secured at bunker entrance.

**No Further Action Required at Housekeeping Site**

<b>Reed J. Poderis, CEM</b> Corrective Action Coordinator/Designee	<b>SIGNATURE APPROVED</b> Signature	<b>8/10/05</b> Date
---	--	------------------------

## Sectored Housekeeping Site Closure Verification Form

**Closure Verification Date:** 07/23/2003

**CAU Number:** 286

**CAS Number:** 06-14-01

**CAS Description:** Radiation Counting Shield (Lead)

**Sector Designation:** NTS Sector C

**Housekeeping Site General Location:** CP-400

**Elevation:** 4,200 feet

**Northing:** 4,087,761 m (UTM Zone 11)

**Easting:** 584,035 m (UTM Zone 11)

**Latitude:** 36.93215

**Longitude:** -116.05638

**Coordinate/Elevation Data Obtained from:** North American Datum, 1983.

Site Access Route: Mercury Highway north past the Area 6 Control Point to 6-01 Road. Turn left (west) on 6-01 Road and continue 0.5 mile (road becomes dirt) to a dirt road. Take a sharp left (east) on the dirt road and travel east and then south up the hill to Building CP-55. The site is located north of the building.

Waste Item(s) Originally at Site	Apparent Waste Type*
Lead Counting Shield	None, waste previously removed.

\* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other

None Available	
----------------	---

Housekeeping Site Before Closure Activities	Current Site Condition (taken 07/23/2003)
---	--

**Current Site Description/Observations:** Waste was previously removed. No waste remains onsite.

**No Further Action Required at Housekeeping Site**

**Reed J. Poderis, CEM**

**SIGNATURE APPROVED**

**8/10/05**

**Corrective Action Coordinator/Designee**

**Signature**

**Date**

**APPENDIX C:**  
**NATIONAL ENVIRONMENTAL POLICY ACT**  
**EVALUATION CHECKLIST**

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## CAUs 286, 390, & 395 Housekeeping Sites Closure/Cleanup Activities

### Project Description

The purpose of this project is to remove various debris located at several Corrective Action Units (CAUs). The CAUs are housekeeping sites, located at the Nevada Test Site (NTS). CAU 286 is located in Areas 1, 2, 3, 4, 6, 10, and 18 and consists of twelve CASSs. CAU 390 is located in Areas 9, 10, and 12 and consists of six CASSs. CAU 395 is located in Area 19 and consists of ten CASSs. A detailed list of the CASSs and description of the CASSs and descriptions is provided in the Federal Facility Agreement and Consent Order (FFACO) of 1996. Each CAU is listed below, with a brief description of the types of debris present in the CASSs.

CAU 286 includes pieces of lead shielding in various locations. A pile of concrete is also included. Some of the waste may be radioactive. The lead material is hazardous. However, the majority of the lead material is salvageable for recycling.

CAU 390 includes asphalt, paraffin wax, and tar spills. One drum with several gallons of unknown liquid is also included. Some of the waste may be radioactive and/or hazardous/toxic.

CAU 395 includes concrete, oil, and asphalt spills. Several spills of unidentified materials are also included. Some of the waste may be radioactive and/or hazardous/toxic.

### Environmental Considerations

W-1, Non-Rad Solid Waste: Any solid waste that may be generated from project activities will be disposed of at the NTS in a designated landfill.

W-2, Hazardous Waste: Several sites contain lead, PCB, or TPH-impacted and/or sanitary waste and soil. No other chemical hazards are known to exist. Personnel will be required to follow the safety procedures outlined in the Site Specific Health and Safety Plan and Job Hazard Analysis. Wastes will be disposed either on the NTS or offsite, depending on analysis results.

W-3, Low-level Rad Waste: Several sites are in a URMA, CA, or RMA. Radiologically impacted soil and debris in these areas may require disposal either at the Area 3 or Area 5 Radioactive Waste Management Sites.

W-4, Mixed Waste: Any waste which is classified as mixed waste will be disposed at the NTS in an approved mixed waste facility.

HM-1, Petroleum/Fuel (storage/use): Heavy equipment onsite will use petroleum fuel. No fuel will be stored onsite outside of the equipment. Absorbent pads will be used if equipment appears to be leaking petroleum.

HM-8, Beryllium: If any housekeeping site is determined to be in a legacy beryllium area, Industrial Hygiene will be contacted to provide guidance on how to minimize potential exposure

to beryllium. This is in accordance with company procedure CM-0444.001-079, "Chronic Beryllium Disease Prevention".

A-2, Dust/ Particulate Matter: Some dust may be generated by excavation activities, but will be controlled as necessary by water spraying.

S-1, Environmental Restoration Site (CAU): These sites are included in the FFACO as CAU 286, 390, and 395 (See Project Description).

S-2, Excavation/Land Surface Disturbance: Equipment will travel off-road on previously disturbed areas. Equipment will also be used to help remove surface debris. Minor excavations may be required to remove stained soil at spill locations. All excavations will be performed under the appropriate permit.

S-9, Noise: Elevated noise levels may result from the operation of a backhoe and/or loader equipment. Personnel not directly involved with operation of this equipment will be kept back at least 15 feet while equipment is in use. The equipment operator will follow the instructions as directed in the Site Specific Health and Safety Plan.

S-10, Radiation Controlled Area: All CASs are in radiation controlled areas. All personnel onsite will have General Employee Radiological Training, at a minimum. Radiological Control Technicians will be onsite as required by Radcon.

**APPENDIX D:**  
**FFACO COORESPONDENCE**

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Administration  
Water Pollution Control  
Air Quality  
(702) 486-2850

Federal Facilities  
Corrective Actions  
Waste Management  
Facsimile 486-2863



DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES  
**DIVISION OF ENVIRONMENTAL PROTECTION**

(Las Vegas Office)  
1771 E. Flamingo Road, Suite 121-A  
Las Vegas, Nevada 89119-0837

April 15, 2004

ERD.040419.0004

Ms. Janet Appenzeller-Wing  
Acting Director, Environmental Restoration Division  
Nuclear Security Administration  
Nevada Site Office  
P. O. Box 98518  
Las Vegas, NV 89193-8518

RE: Approval of REQUEST TO TRANSFER CORRECTIVE ACTION SITES (CAS)  
18-99-08 AND 10-23-01 TO CORRECTIVE ACTION UNIT (CAU) 286,  
LEAD/CHEMICAL/SPILL SITES AND MATERIAL DUMPS

Dear Ms. Appenzeller-Wing:

The Nevada Division of Environmental Protection, Bureau of Federal Facilities (NDEP) staff has reviewed the request to transfer Corrective Action Sites (CAS) 18-99-08, Core in Boxes, located in CAU 167, Contaminated Materials and Trash Pits, and CAS 10-23-01, Metal Debris (RAD), located in CAU 210, Storage Areas and Contaminated Material, to CAU 286, Lead/Chemical/Spill Sites and Material Dumps. The request is hereby approved.

If you have any questions regarding this matter, direct them to Karen Beckley at (775) 687-9390, or Marcia Manley at (775) 687-9309.

Sincerely,

Terre A. Maize.  
Chief  
Bureau of Federal Facilities

ACTION	_____
INFO	ERD ESHD TO MGR
NSO/MGR	/
AMEM	/
AMNS	_____
AMSO	_____
AMSSP	/

Ms. Appenzeller-Wing  
April 15, 2004  
Page 2

TAM/MAM/KKB/DRE/mm

cc: Don Elle, NDEP LV  
Karen Beckley, NDEP CC  
S.M. Doty, EM Records Center, NNSA/NSO,  
Las Vegas, NV  
E.E. Shanholtz, DTRA/TDTNS, M/S 645, Mercury, NV  
LTC P.M. Loomis, USA, DTRA/TDTNS, M/S 645, Mercury, NV  
D.C. Loewer, DTRA/TDTNS, M/S 645, Mercury, NV  
T.A. Lantow, DTRA/TDTNS, M/S 645, Mercury, NV  
W.R. Griffin, BN/DTRA, M/S 645, Mercury, NV  
R.L. Brittigan, DTRA/GC, Ft. Belvoir, VA  
M.A. Demcko, DTRA/ALHK, Kirkland AFB, NM  
J.L. Smith, BN, Mercury, NV  
B.S. Bailey, S-N, M/S 439, Las Vegas, NV  
B.C. Hoenes, S-N, M/S 439, Las Vegas, NV  
G.M. Romano, S-N, M/S 439, Las Vegas, NV  
K.A. Hoar, ESHD, NNSA/NSO, Las Vegas, NV  
S.T. Curtis, ERD, NNSA/NSO, Las Vegas, NV  
P.L. Hall, TD, NNSA/NSO, Las Vegas, NV

Administration  
Water Pollution Control  
Air Quality  
(702) 486-2850



Federal Facilities  
Corrective Actions  
Waste Management  
Facsimile 486-2863

DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES  
**DIVISION OF ENVIRONMENTAL PROTECTION**

(Las Vegas Office)

1771 E. Flamingo Road, Suite 121-A  
Las Vegas, Nevada 89119-0837

May 24, 2004

ERD.040603.0003

Monica L. Sanchez, Acting Director  
Environmental Restoration Division  
National Nuclear Security Administration  
Nevada Site Office  
P.O. Box 98518  
Las Vegas, NV 89193-8518

Re: REQUEST TO TRANSFER CORRECTIVE ACTION SITES (CASs) 12-28-03, 02-26-07 and 18-99-06 TO CORRECTIVE ACTION UNIT (CAU) 5000, ARCHIVED CORRECTIVE ACTION SITES

Dear Ms. Sanchez:

The Nevada Division of Environmental Protection, Bureau of Federal Facilities (NDEP) staff reviewed the additional information provided regarding this request to transfer three CASs to CAU 5000. Based on this review, NDEP agrees with the request to transfer the sites to CAU 5000.

If there are questions regarding this matter, please contact Don Elle at (702) 486-2874.

Sincerely,  
*Terre Maize*  
Terre Maize, Chief

TM/DRE

cc: Ken Hoar, Director, ES&HD, NNSA/NSO  
Eric Shanholtz, Chief, DTRA  
Patti Hall, EM, NNSA/NSO  
Wayne Griffin, BN/DTRA  
Tiffany Lantow, DTRA/YDTON  
Janet Appenzeller-Wing, kERD, NNSA/NSO  
S. T. Curtis, ERD, NNSA/NSO  
Karen Beckley, NDEP-CC

ACTION	_____
INFO	<u>ERD ES&amp;HD TD MGR</u>
NSO/MGR	<input checked="" type="checkbox"/>
AMEM	<input checked="" type="checkbox"/>
AMNS	_____
AMSO	_____
AMSSP	<input checked="" type="checkbox"/>

LEO DROZDOFF, *Administrator*

STATE OF NEVADA

ALLEN BIAGGI, *Director*

KENNY C. GUINN

Governor

(775) 687-4670

Administration  
Facsimile 687-5856

Water Quality Planning  
Water Pollution Control  
Facsimile 687-4684

Mining Regulations and Reclamation  
Facsimile 684-5259



Air Pollution Control  
Air Quality Planning  
Facsimile 687-6396

Waste Management  
Facsimile 687-6396

Federal Facilities  
Facsimile 687-6396

Corrective Actions  
Facsimile 687-8335

[ndep.nv.gov](http://ndep.nv.gov)

DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES  
**DIVISION OF ENVIRONMENTAL PROTECTION**

Las Vegas Office

1771 East Flamingo Road, Suite 121-A

Las Vegas, Nevada 89119-0837

December 2, 2004

ERD.041208.0001

Robert M. Bangerter, Acting Director  
Environmental Restoration Division  
National Nuclear Security Administration  
Nevada Site Office  
P.O. Box 98518  
Las Vegas, Nevada 89193-8518

Re: Request to Transfer Corrective Action Sites (CASs) CAS 04-26-02 and  
02-26-01 from CAU 286 to CAU 5000

Dear Mr. Bangerter:

The Nevada Division of Environmental Protection (NDEP) has reviewed the information submitted in support of transferring CASs 04-26-02 and 02-26-01 from CAU 286 to CAU 5000. NDEP concurs with the proposed transfer of CASs.

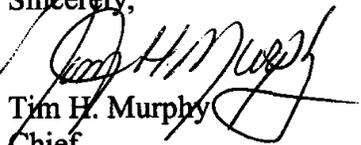
At each of the CASs, lead sheeting is contained within concrete; therefore, no environmental impacts or hazards were identified with leaving lead sheeting in place. On November 10, 2004, NNSA/NV, NDEP, and Bechtel Nevada representatives visited each site and observed the lead sheeting – observations made during the visit are consistent with the information and assessment submitted to support the transfer of CASs to CAU 5000.

If you have questions regarding this issue, please contact Don Elle at (702) 486-2874, or John Wong, at (702) 486-2866.

ACTION	
INFO	<u>ERD ESHD TD</u>
NSO/MGR	<input checked="" type="checkbox"/>
AMEM	<input checked="" type="checkbox"/>
AMNS	<input type="checkbox"/>
AMSO	<input type="checkbox"/>
AMSSP	<input checked="" type="checkbox"/>

Robert M. Bangerter  
Page 2  
December 2, 2004

Sincerely,



Tim H. Murphy  
Chief  
Bureau of Federal Facilities

THM/DRE/JAW

cc: Ken Hoar, Director, ES&HD, NNSA/NSO  
E.E. Shanholtz, DTRA  
D.C. Loewer, DTRA  
T.A. Lantow, DTRA  
W.R. Griffin, DTRA  
P.L. Hall, TD, NNSA/NSO  
J.L. Appenzeller-Wing, ERD, NNSA/NSO  
S.T. Curtis, ERD, NNSA/NSO

LEO M. DROZDOFF, Administrator  
(775) 687-4670

Administration  
Facsimile (775) 687-5856

Water Quality Planning  
Water Pollution Control  
Facsimile (775) 687-4684

Mining Regulations and Reclamation  
Facsimile (775) 684-5259

Las Vegas Office  
Facsimile (702) 486-2863

STATE OF NEVADA  
KENNY C. GUINN  
Governor



ALLEN BIAGGI, Director  
Air Pollution Control  
Air Quality Planning  
Facsimile (775) 687-6396

Waste Management  
Facsimile (775) 687-6396

Corrective Actions  
Facsimile (775) 687-8335

Federal Facilities  
Facsimile (702) 486-2863

Webpage <http://ndep.nv.gov>

DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES  
DIVISION OF ENVIRONMENTAL PROTECTION

Las Vegas Office

1771 E. Flamingo Road, Suite 121-A

Las Vegas, Nevada 89119-0837

(702) 486-2850

May 24, 2005

Robert M. Bangerter, Acting Director  
Environmental Restoration Division  
National Nuclear Security Administration  
Nevada Site Office  
P.O. Box 98518  
Las Vegas, Nevada 89193-8518

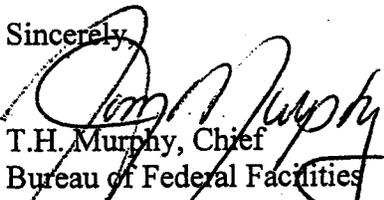
Re: Request to Transfer Corrective Action Sites (CAS) CAS 18-99-08 and CAS 10-23-01 from CAU 286 to CAU 5000

Dear Mr. Bangerter:

The Nevada Division of Environmental Protection (NDEP) has received the request to transfer CAS 18-99-08 and CAS 10-23-01 from CAU 286 to CAU 5000. Considering the historical significance of the areas with respect to the Sulky Plowshare Project and atmospheric tower fragment (remains of atmospheric testing tower), respectively, NDEP concurs with the proposed transfer of CAS 18-99-08 and CAS 10-23-01 to CAU 5000, Archived Corrective Action Sites.

If you have questions regarding this issue, please contact Don Elle at (702) 486-2874, or John Wong, at (702) 486-2866.

Sincerely,

  
T.H. Murphy, Chief  
Bureau of Federal Facilities

ACTION	_____
INFO	ERO ESHO 10
NSO/MGR	_____
AMEM	_____
AMNS	_____
AMSO	_____
AMSP	_____
AMSS	_____

Robert M. Bangerter  
Page 2  
May 24, 2005

THM/DRE/JAW

cc: Ken Hoar, Director, ES&HD, NNSA/NSO  
E.E. Shanholtz, DTRA  
D.C. Loewer, DTRA  
T.A. Lantow, DTRA  
W.R. Griffin, DTRA  
P.L. Hall, TD, NNSA/NSO  
J.L. Appenzeller-Wing, ERD, NNSA/NSO  
S.T. Curtis, ERD, NNSA/NSO

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