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**FEDERAL FACILITY AGREEMENT AND CONSENT ORDER (FFACO)
RECORD OF TECHNICAL CHANGE (ROTC)**

Corrective Action Unit (CAU) Number: 326

CAU Description: Areas 6 and 27 Release Sites

CAU Owner: Industrial Sites - Defense Program (DP)

ROTC No. DOE/NV--859-Rev 1-ROTC 1 **Page** 1 **of** 3

Document Type Closure Report (CR) **Date** 06/29/2021

The following technical changes (including justification) are requested by:

Tiffany Gamero

Requestor Name

Long-Term Monitoring Activity Lead

Requestor Title

Description of Change:

1. This ROTC replaces the Use Restriction (UR) information listed in the documentation for CAU 326.

UR forms have been updated to list all UR requirements, including but not limited to: post-closure site controls (signs, fencing, etc.), inspection and maintenance requirements, and Geographic Information Systems (GIS) coordinate information. The UR requirements and form(s) included in this ROTC represent the current corrective action requirements for each Corrective Action Site (CAS) in this CAU and supersede information concerning corrective action and post-closure requirements in existing documentation.

2. Remove UR from CAS 06-25-02.

Justification:

1. Some changes in the UR requirements from those found in closure documents have been subsequently modified in letters, memos, and inspection reports. This has resulted in difficulty in determining current post-closure requirements. A review of the post-closure requirements for this CAU has been conducted to ensure that all requirements have been identified and documented on the new UR form. The new UR form was developed to be inclusive of all requirements for long-term monitoring and standardize information contained in the URs consistent with current protocols.
2. Based on an evaluation that concentrations of hazardous contaminants at CAS 06-25-02 do not exceed action levels, this release site does not warrant either an FFACO or Administrative UR. This was concurred by NDEP in a letter dated 8/31/20.

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ROTC No. DOE/NV--859-Rev 1-ROTC 1 **Page** 2 **of** 3

Document Type Closure Report (CR) **Date** 06/29/2021

Schedule Impacts:

No impacts to schedule.

ROTC applies to the following document(s):

- National Nuclear Security Administration Nevada Operations Office. 2002. Closure Report for Corrective Action Unit 326: Areas 6 and 27 Release Sites, Nevada Test Site, Nevada, Rev. 1, DOE/NV--859-Rev 1. Las Vegas, NV.

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FEDERAL FACILITY AGREEMENT AND CONSENT ORDER (FFACO)
RECORD OF TECHNICAL CHANGE (ROTC)

Corrective Action Unit (CAU) Number: 326

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ROTC No. DOE/NV--859-Rev 1-ROTC 1 **Page** 3 **of** 3

Document Type Closure Report (CR) **Date** 06/29/2021

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ERRATA SHEET

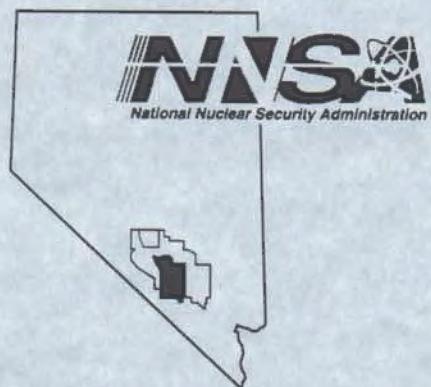
In the last sentence of Section 2.1.2.1 on Page 7 of the Closure Report for Corrective Action Unit 326: Areas 6 and 27 Release Sites, Nevada Test Site, Nevada, Appendix B was incorrectly referenced. The sentence should state that "The CAU Use Restriction Information form for this area and a figure showing the survey locations and coordinates are provided in Appendix C".

Per NNSA/NSO January 24, 2003 Letter entitled: SUBMITTAL OF ERRATA SHEET FOR THE FINAL CLOSURE REPORT OF CORRECTIVE ACTION UNIT 326: AREAS 6 AND 27 RELEASE SITES, NEVADA TEST SITE, NEVADA, REVISION 1, DECEMBER 2002.

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Nevada
Environmental
Restoration
Project

DOE/NV--859-Rev 1



Closure Report for
Corrective Action Unit 326:
Areas 6 and 27 Release Sites,
Nevada Test Site, Nevada

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Controlled Copy No.

Revision: 1

December 2002

Environmental Restoration
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National Nuclear Security Administration
Nevada Operations Office

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**CLOSURE REPORT
FOR CORRECTIVE ACTION UNIT 326:
AREAS 6 AND 27 RELEASE SITES,
NEVADA TEST SITE, NEVADA**

**Prepared for:
U.S. Department of Energy
National Nuclear Security Administration
Nevada Operations Office
Work Performed Under Contract No. DE-AC08-96-NV11718**

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Revision: 1

December 2002

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**CLOSURE REPORT
FOR CORRECTIVE ACTION UNIT 326:
AREA 6 AND 27 RELEASE SITES,
NEVADA TEST SITE, NEVADA**

Approved by: /s/ Janet Appenzeller-Wing
Janet Appenzeller-Wing, Project Manager
Industrial Sites Project

Date: 12/16/02

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

Date: 12/16/02

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APPENDICES

APPENDIX A: DATA QUALITY OBJECTIVES

APPENDIX B: VERIFICATION SAMPLE ANALYTICAL RESULTS

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APPENDIX D: WASTE DISPOSITION DOCUMENTATION

APPENDIX E: NEVADA DIVISION OF ENVIRONMENTAL PROTECTION CORRESPONDENCE

APPENDIX F: NEVADA DIVISION OF ENVIRONMENTAL PROTECTION DOCUMENT REVIEW SHEET

DISTRIBUTION LIST

ACRONYMS AND ABBREVIATIONS

bgs	below ground surface
BN	Bechtel Nevada
CAS	Corrective Action Site
CAU	Corrective Action Unit
cm	centimeter(s)
CP	Control Point
CR	Closure Report
DAF	Device Assembly Facility
DOE/NV	U.S. Department of Energy, Nevada Operations Office
DQO	Data Quality Objective
E	east
EPA	U.S. Environmental Protection Agency
ft	foot(feet)
FFACO	Federal Facility Agreement and Consent Order
gal	gallon(s)
in	inch(es)
km	kilometer(s)
L	liter(s)
m	meter(s)
m ³	cubic meter(s)
mi	mile(s)
mg/kg	milligram(s) per kilogram
µg/kg	microgram(s) per kilogram
NAC	Nevada Administrative Code
NDEP	Nevada Division of Environmental Protection
ND	Not detected
N	north
NNSA/NV	U.S. Department of Energy, National Nuclear Security Administration Nevada Operations Office
NS	Not sampled
NTS	Nevada Test Site
PCB	Polychlorinated biphenyls
ppm	parts per million
S	south
SDG	Sample Delivery Group

ACRONYMS AND ABBREVIATIONS (continued)

SAFER	Streamlined Approach for Environmental Restoration Plan
SSHASP	Site-Specific Health & Safety Plan
TPH	Total Petroleum Hydrocarbons
UST	underground storage tank
yd ³	cubic yard(s)
W	west

EXECUTIVE SUMMARY

Corrective Action Unit (CAU) 326 consists of four Corrective Action Sites (CAS) located in Areas 6 and 27 of the Nevada Test Site. The Nevada Test Site is located approximately 100 kilometers (62 miles) northwest of Las Vegas, Nevada. CAU 326 is listed in the Federal Facility Agreement and Consent Order (FFACO, 1996) and consists of the following CASs:

- CAS 06-25-01, CP-1 Heating Oil Release
- CAS 06-25-02, UST (Underground Storage Tank) Release
- CAS 06-25-04, Petroleum Release Site
- CAS 27-25-01, Petroleum Release Site Maintenance

CAU 326 was closed in accordance with the FFACO and the Nevada Division of Environmental Protection-approved Streamlined Approach for Environmental Restoration Plan for CAU 326: Areas 6 and 27 Release Sites, Nevada Test Site, Nevada (U.S. Department of Energy, Nevada Operations Office, 2001). CAU 326 was closed by implementing the following corrective actions:

- CAS 06-25-01 is a fuel oil release caused by a break in a heating oil pipeline. The site was closed in place administratively by determining the extent of the hydrocarbon contamination, evaluating the risk associated with the hydrocarbon contamination, and implementing use restrictions to prevent inadvertent intrusion or exposure to the contaminated soil.
- CAS 06-25-02 is a hydrocarbon release associated with an active underground storage tank (UST) (tank 6-DAF-5) located west of Building 500 at the Device Assembly Facility. This site was closed in place administratively by implementing a use restriction.
- CAS 06-25-04 was clean closed during the closure of the associated UST, tank 6-619-4. This site was closed by taking no further action.
- CAS 27-25-01 was a petroleum release site associated with fuel and oil storage and equipment maintenance activities. In addition, polychlorinated biphenyls (PCBs) at concentrations greater than regulatory limits were found onsite. This site was clean closed by the removal and disposal of PCB-impacted soils.

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1.0 INTRODUCTION

This Closure Report (CR) documents the activities undertaken to close Corrective Action Unit (CAU) 326, Areas 6 and 27 Release Sites, in accordance with the Federal Facility Agreement and Consent Order (FFACO) of 1996. Site closure was performed in accordance with the Nevada Division of Environmental Protection (NDEP)-approved Streamlined Approach for Environmental Restoration Plan (SAFER) Plan for CAU 326 (U.S. Department of Energy, Nevada Operations Office [DOE/NV, 2001]). CAU 326 consists of four Corrective Action Sites (CASs), 06-25-01, 06-25-02, 06-25-04, and 27-25-01 (Figure 1).

CAS 06-25-01 is a release site associated with an underground pipeline that carried heating oil from the heating oil underground storage tank (UST), Tank 6-CP-1, located to the west of Building CP-70 to the boiler in Building CP-1 located in the Area 6 Control Point (CP) compound. This site was closed in place administratively by implementing use restrictions.

CAS 06-25-02 is a hydrocarbon release associated with an active heating oil UST, Tank 6-DAF-5, located west of Building 500 at the Area 6 Device Assembly Facility. This site was closed in place administratively by implementing use restrictions.

CAS 06-25-04 was a hydrocarbon release associated with Tank 6-619-4. This site was successfully remediated when Tank 6-619-4 was removed. No further action was taken at this site.

CAS 27-25-01 is an excavation that was created in an attempt to remove hydrocarbon-impacted soil from the Site Maintenance Yard in Area 27. Approximately 53 cubic meters (m^3) (70 cubic yards [yd^3]) of soil impacted by total petroleum hydrocarbons (TPH) and polychlorinated biphenyls (PCBs) was excavated from the site in August of 1994. Clean closure of this site was completed in 2002 by the excavation and disposal of approximately 160 m^3 (210 yd^3) of PCB-impacted soil.

1.1 PURPOSE

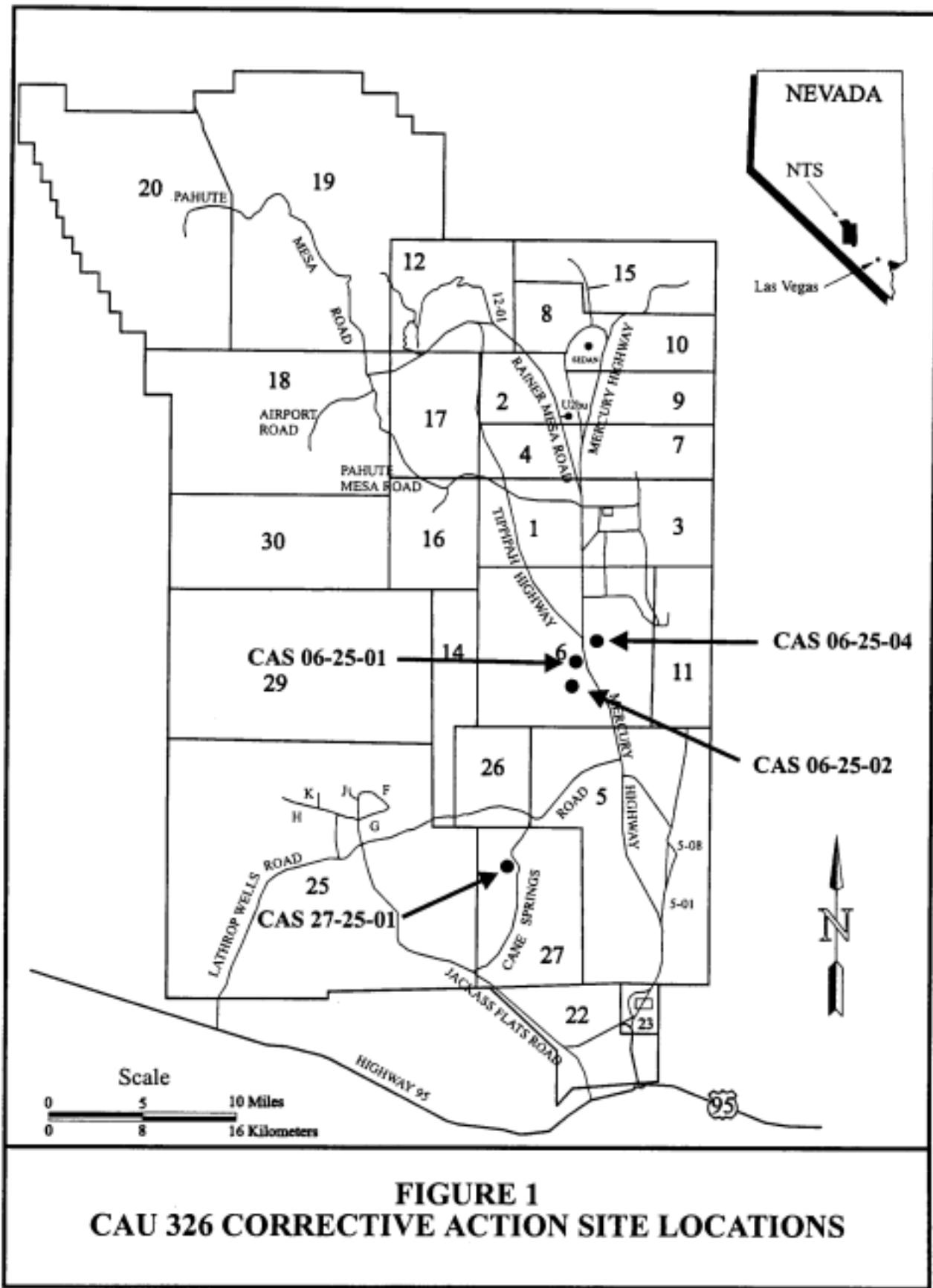
The purpose of this CR is to document that the closure of CAU 326 complied with all of the closure requirements detailed in the NDEP-approved SAFER Plan (DOE/NV, 2001).

1.2 SCOPE

The closure strategy for CAU 326 was specified in the NDEP-approved SAFER Plan for CAU 326 (DOE/NV, 2001). The implemented closure strategy consisted of the following activities.

CAS 06-25-01

- Locate and pressure test the ruptured underground heating oil pipeline.
- Collect soil samples from locations along the pipeline where the pipeline fails pressure testing to identify any additional hydrocarbon release sites.



- Collect soil samples using a drill rig, or equivalent, to identify the lateral and vertical extent of impacted soil at locations where releases were identified along the pipeline.
- Evaluate the site using the "A through K" criteria as stated in Section 445A.227 of the Nevada Administrative Code (NAC, 2002b) and, as warranted, administratively close the site by implementing use restrictions.

CAS 06-25-02

This site will be closed administratively by implementing use restrictions and evaluate the site using an "A through K" criteria (NAC, 2002b).

CAS 06-25-04

This site has been previously closed. No further activities occurred at this site.

CAS 27-25-01

- Collect soil samples from the bottom and sides of the excavation to identify the presence or absence of TPH and PCBs.
- Excavate and dispose of any PCB-impacted soil above the action limit.
- Collect verification soil samples from the bottom and sidewalls of the Area 27 excavation to verify that all PCB soil had been removed.
- Backfill the excavation with clean material.

1.3 CLOSURE REPORT CONTENTS

This CR is divided into the following sections:

- Section 1.0 - Introduction
- Section 2.0 - Closure Activities
- Section 3.0 - Waste Disposition
- Section 4.0 - Closure Verification Results
- Section 5.0 - Conclusions and Recommendations
- Section 6.0 - References
- Appendix A - Data Quality Objectives

- Appendix B - Verification Sample Analytical Results
- Appendix C - Use Restriction Documentation
- Appendix D - Waste Disposition Documentation
- Appendix E - Nevada Division of Environmental Protection Correspondence
- Appendix F - Nevada Division of Environmental Protection Document Review Sheet
- Distribution List

The following standard FFACO CR appendices are not included in this CR because they do not apply to closure of CAU 326.

- Closure Certification - Not applicable.
- As-Built Documentation - Not applicable, no engineered structures were constructed.
- Modifications to the Post-Closure Plan - Not applicable.

This report was developed using information and guidance from the following documents:

- Streamlined Approach for Environmental Restoration Plan for Corrective Action Unit 326: Areas 6 and 27 Release Sites, Nevada Test Site, Nevada (DOE/NV, 2001).
- Field Management Plan for Corrective Action Unit 326: Areas 6 and 27 Release Sites, Nevada Test Site, Nevada (Bechtel Nevada [BN], 2001a).
- Site-Specific Health and Safety Plan for Corrective Action Unit 326: Areas 6 and 27 Release Sites, Nevada Test Site, Nevada (BN, 2001b).
- Nevada Environmental Restoration Project, Industrial Sites Quality Assurance Project Plan, Nevada Test Site, Nevada, Revision 3 (DOE/NV, 2002).

2.0 CLOSURE ACTIVITIES

This section details the specific corrective action activities completed during the closure of CAU 326: Areas 6 and 27 Release Sites. Copies of the analytical data reports for all verification samples are included in Appendix B.

2.1 DESCRIPTION OF CORRECTIVE ACTION ACTIVITIES

2.1.1 Preplanning and Site Preparation

Closure of CAU 326 was completed using the NDEP-approved SAFER Plan (DOE/NV, 2001). Prior to beginning site closure activities, the following pre-field activities were completed:

- Preparation of National Environmental Policy Act documentation (checklist).
- Preparation of the Field Management Plan for Corrective Action Unit 326: Areas 6 and 27 Release Sites, Nevada Test Site, Nevada, (BN, 2001a).
- Preparation of the Site-Specific Health and Safety Plan for Closure Activities at Corrective Action Unit 326: Nevada Test Site, Nevada, (BN, 2001b).
- Preparation of a U.S. Department of Energy, National Nuclear Security Administration Nevada Operation Office (NNSA/NV) Real Estate/Operations Permit.
- Preparation of a BN Excavation and Penetration Permit.

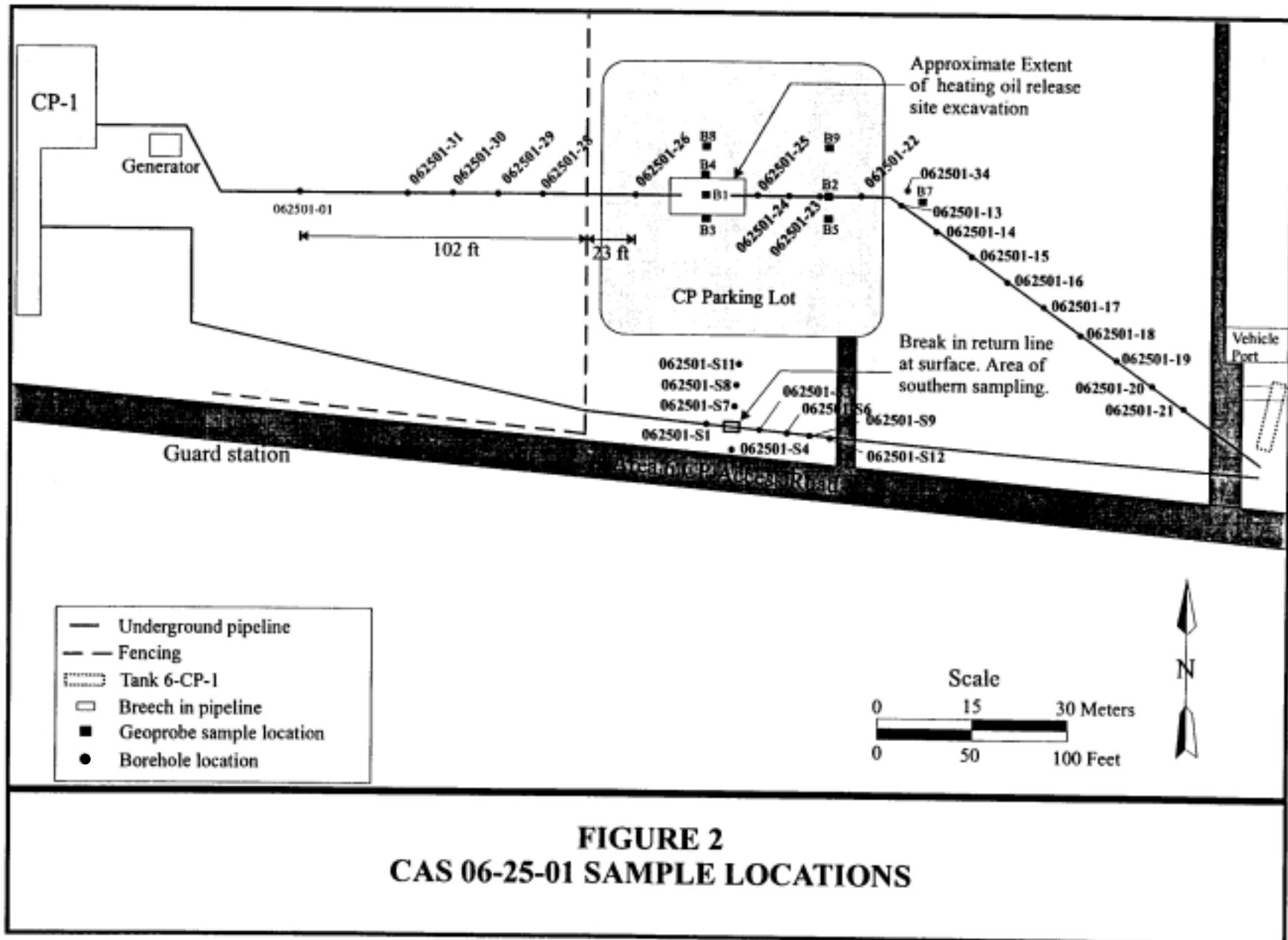
The following is the scope of the closure actions implemented for CAU 326.

2.1.2 CAS 06-25-01: CP-1 Heating Oil Release Closure Activities

Closure activities were performed in two phases. Phase I closure activities were conducted in January and February of 2002 and consisted of pressure testing the pipeline and collecting soil samples for TPH field screening along the pipeline. Phase II closure activities were conducted in June of 2002 and consisted of using a drill rig to collect soil samples to define the lateral and vertical extent of the TPH contamination associated with the original pipeline break.

2.1.2.1 CAS 06-25-01, CP-1 Heating Oil Release Phase I Closure Activities

The underground heating oil pipeline runs from Tank 6-CP-1 located immediately west of the Area 6 CP fire station (Building CP-70), to Building CP-1, located inside the CP security fencing (Figure 2). The approximate location of the original heating oil release was midway between the tank and building in the CP parking lot. To determine if other breaks in the pipeline may have occurred, the pipeline was pressure tested. The area of the original break and the east end of the pipeline were excavated to expose the pipeline. The excavation measured approximately 12 by 6 meters (m) (40 by 20 feet [ft]) and was 1.4 m (4.5 ft) deep. The excavated soil was disposed



of in the Nevada Test Site (NTS) Area 6 Hydrocarbon Landfill (Section 3.0). The ends of the pipeline were cut and fitted for pressure testing. Both the west and east pipeline segments failed pressure testing. Next, the approximate midpoints of the west and the east pipeline segments were excavated, cut, and fitted for pressure testing. All four pipeline segments failed pressure testing. It was concluded that the pipeline was badly deteriorated and that the possibility of other heating oil releases along the pipeline could not be ruled out by the results of the pressure testing.

Due to the inconclusive pressure testing results, soil samples were collected along the pipeline at 6-m (20-ft) intervals using the Geoprobe® (Figure 2). The soil samples were collected at typically 0.6 m (2 ft) and 1.2-m (4-ft) depths at each location and screened for TPH using a PetroFlag® field screening test kit. Results for TPH field screening and select samples submitted for laboratory analysis are given in Table 1 (analytical results are provided in Appendix B). The results presented in Table 1 demonstrate that portions of the east and west pipeline segments are clean. Specifically, the portion of pipeline extending from the location of Borehole 7 (Figure 2) to the Tank 6-CP-1 is clean; TPH levels are less than the Nevada State Action Level of 100 milligrams per kilogram (mg/kg) (NAC, 2002a) for this segment of pipeline. Also, the portion of pipeline extending from the sample 062501-01 location, 30.6 m (102 ft) west of the CP fence, to the sample 062501-26 location, 7 m (23 ft) east of the CP fence, is clean of TPH.

Due to the close proximity of a utility corridor and associated safety concerns, Geoprobe® samples were not collected along the segment of pipeline east from Building CP-1 to the sample 062501-31 location (Figure 2). For this reason and the inconclusive pressure test results, this segment of pipeline was closed in place with administrative controls by implementing use restrictions. The area with active use restrictions is centered about the pipeline and extends 7 m (24 ft) north, and 3 m (10 ft) south of the pipeline. The width of the use restriction area was established by borehole sample results obtained at the original pipeline break (see Phase II Activities below.). The CAU Use Restriction Information form for this area and a figure showing the survey locations and coordinates are provided in Appendix B.

2.1.2.2 CAS 06-25-01, CP-1 Heating Oil Release Phase II Closure Activities

Phase II closure activities consisted of determining the lateral and vertical extent of TPH contamination present at the heating oil pipeline release location. This was accomplished by using a hollow stem auger drill rig and split spoon soil sampler to advance and sample eight boreholes. The locations of the boreholes are shown in Figure 3. Soil samples were collected from each bore hole at 1.5-m (5-ft) intervals and field screened for TPH concentrations using a PetroFlag® test kit. In addition, selected soil samples were collected and submitted to an offsite laboratory for TPH analysis. The field screening and analytical results for all borehole samples are provided in Table 2 and Appendix B.

The vertical extent of the TPH contamination was established by results of samples collected from Boreholes 1 and 2. Borehole 1 was located at the approximate location of the pipeline break 18 m (60 ft) east of the CP fence, and was advanced to a total depth of 21 m (70.25 ft) below ground surface (bgs) where refusal (bedrock) was met. Field screening samples were collected at 1.5-m (5-ft) intervals and showed TPH levels greater than the 75 mg/kg screening limit established in the CAU 326 SAFER Plan (DOE/NV, 2001) along the entire depth of the

TABLE 1 - TPH RESULTS FOR CAS 06-25-01 PIPELINE GEOPROBE LOCATIONS

SAMPLE ID	LOCATION	SDG ^a	SAMPLE DEPTH bgs ^b (ft ^c)	TPH ^d FIELD SCREENING RESULTS (ppm ^e)	TPH LABORATORY RESULTS ^f (mg/kg ^g)
062501-01	Midpoint of W. segment	V1429	2	87	61
062501-02	E. end of release excva.	V1429	2	1,828	1,800
062501-03	W. end of release excav.	V1429	2	1,893	1,100
062501-04	Center of excavation	V1429	2	191	84
062501-05	N. stepout of excavation		2	0	NS ^h
062501-13	E. pipeline segment	V1429	2	> 2,000 ⁱ	1,500
062501-13L	E. pipeline segment	V1429	4	0	38
062501-14	E. pipeline segment		2	57	NS
062501-14L	E. pipeline segment		4	3	NS
062501-15	E. pipeline segment		2	0	NS
062501-15L	E. pipeline segment		4	0	NS
062501-16	E. pipeline segment		2	5	NS
062501-16L	E. pipeline segment		4	7	NS
062501-17	E. pipeline segment		2	31	NS
062501-17L	E. pipeline segment		4	20	NS
062501-18	E. pipeline segment		2	4	NS
062501-18L	E. pipeline segment		4	0	NS
062501-19	E. pipeline segment		2	0	NS
062501-19L	E. pipeline segment		4	5	NS
062501-20	E. pipeline segment		2	6	NS
062501-20L	E. pipeline segment		4	0	NS
062501-21	E. pipeline segment		2	23	NS
062501-21L	E. pipeline segment		4	0	NS
062501-22	E. pipeline segment	V1432	2	> 2,000	3,000
062501-22L	E. pipeline segment		4	1172	NS
062501-23	E. pipeline segment	V1432	2	636	220
062501-23L	E. pipeline segment	V1432	4	66	44
062501-24	E. pipeline segment	V1432	2	> 2,000	1,200
062501-24L	E. pipeline segment		4	> 2,000	NS
062501-25	E. pipeline segment	V1432	2	2,162	9,000
062501-25L	E. pipeline segment		4	1,911	NS
062501-26	W. pipeline segment	V1432	2	797	89
062501-26L	W. pipeline segment		4	98	NS
062501-27	N. stepout of # 25		2	> 2,000	NS

SAMPLE ID	LOCATION	SDG*	SAMPLE DEPTH bgs ^b (ft ^c)	TPH ^d FIELD SCREENING RESULTS (ppm ^e)	TPH LABORATORY RESULTS ^f (mg/kg ^g)
062501-27L	N. stepout of # 25		4	1,860	NS
062501-28	W. pipeline segment		2	5	NS
062501-28L	W. pipeline segment		4	1	NS
062501-29	W. pipeline segment		2	2	NS
062501-29L	W. pipeline segment		4	0	NS
062501-30	W. pipeline segment		2	0	NS
062501-30L	W. pipeline segment		4	0	NS
062501-31	W. pipeline segment		2	0	NS
062501-32	N. stepout of # 24		2	645	NS
062501-32L	N. stepout of # 24		4	> 2,000	NS
062501-32L.7	N. stepout of # 24		6	438	NS
062501-32L.3	N. stepout of # 24		7	> 2,000	NS
062501-33	S. stepout of # 24		2	0	NS
062501-33L	S. stepout of # 24		4	0	NS
062501-33L.7	S. stepout of # 24		6	> 2,000	NS
062501-33L.3	S. stepout of # 24		7	> 2,000	NS
062501-34	N. stepout of # 14		2	0	NS
062501-34L	N. stepout of # 13		4	0	NS
062501-35	N. stepout of # 22		2	0	NS
062501-35L	N. stepout of # 22		4	0	NS
062501-36	N. stepout of # 22		2	0	NS
062501-36L	N. stepout of # 22		4	6	NS

* SDG - Sample Delivery Group number

^b bgs - below ground surface^c ft - feet^d TPH - Total Petroleum Hydrocarbons^e ppm - parts per million^f TPH Laboratory analysis by Method 8015 Modified, U.S. Environmental Protection Agency (EPA) / 1996^g mg/kg - milligrams per kilogram

NS - Not Sampled

* > 2,000 indicates a TPH concentration out of calibration range, i.e., greater than the high calibration end point.

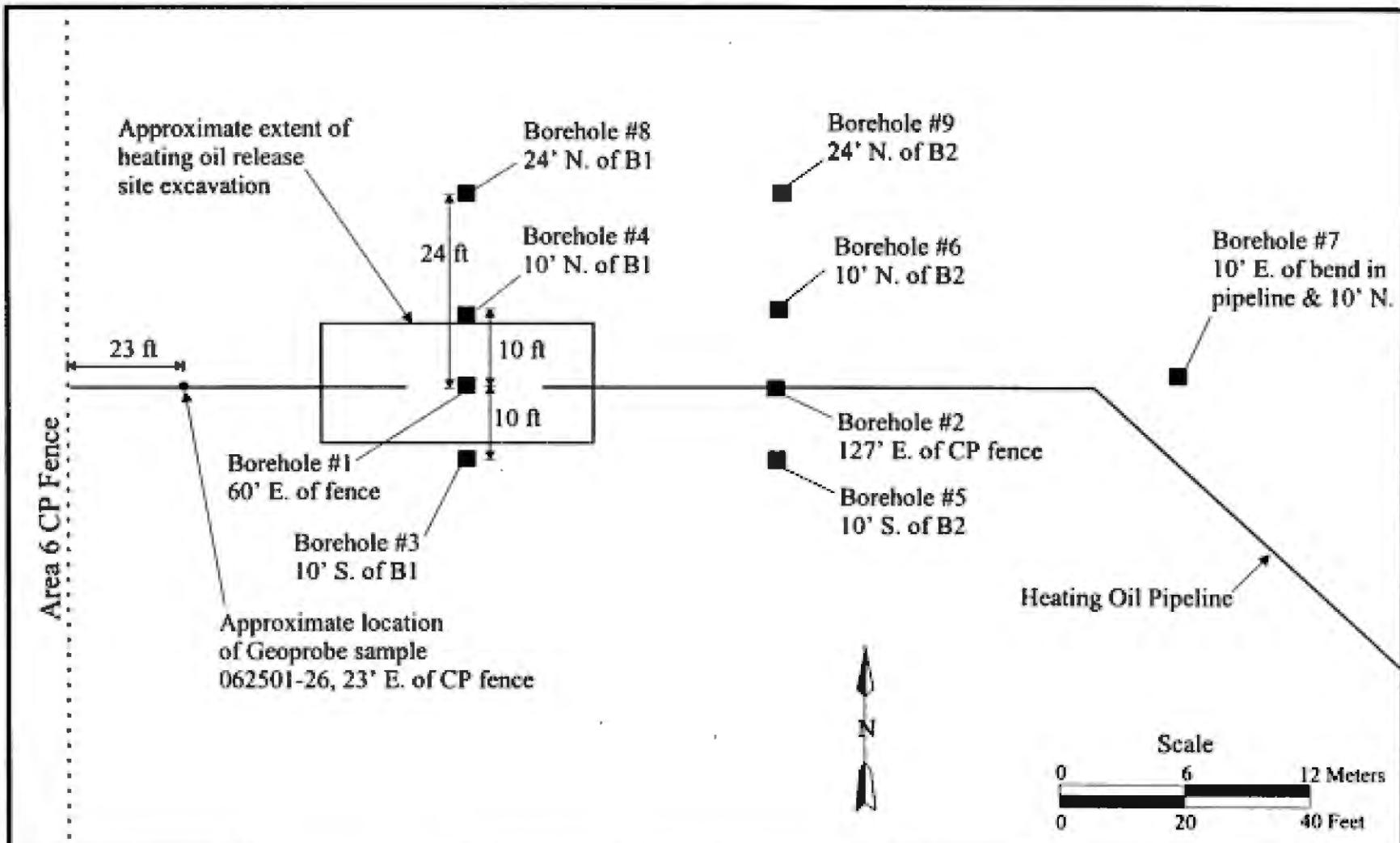


FIGURE 3
CAS 06-25-01 BOREHOLE LOCATIONS

TABLE 2 - TPH RESULTS FOR CAS 06-25-01 BOREHOLE LOCATIONS

SAMPLE IDENTIFICATION	SDG ^a	SAMPLE DEPTH bgs ^b (ft ^c)	TPH ^d FIELD SCREENING RESULTS (ppm ^e)	TPH LABORATORY RESULTS ^f (mg/kg ^g)
BOREHOLE NUMBER B1				
326-B1-05		5	> 3000 ^b	NS ^c
326-B1-10	V1625	10	> 3000	5,700
326-B1-15		15	> 3000	NS
326-B1-20		20	> 3000	NS
326-B1-25		25	> 3000	NS
326-B1-30		30	> 3000	NS
326-B1-35		35	> 3000	NS
326-B1-40		40	> 3000	NS
326-B1-45	V1625	45	> 3000	4,300
326-B1-50		50	> 3000	NS
326-B1-55		55	> 3000	NS
326-B1-60		60	> 3000	NS
326-B1-65		65	> 3000	NS
326-B1-70		70	1024	NS
326-B1-70.25		70.25	555	NS
BOREHOLE NUMBER B2				
326-B2-05	V1622	5	3096	1,300
326-B2-20		20	283	NS
326-B2-25		25	313	NS
326-B2-45	V1622	45	170	ND ^d
326-B2-50	V1622	50	237	ND
326-B2-55		55	258	NS
BOREHOLE NUMBER B3				
326-B3-05		5	72	NS
326-B3-10		10	95	NS
326-B3-15		15	43	NS
326-B3-20		20	26	NS
326-B3-25		25	98	NS
326-B3-30		30	48	NS
326-B3-35		35	73	NS
326-B3-40		40	82	NS
326-B3-45	V1635	45	115	ND
326-B3-50	V1635	50	94	ND

SAMPLE IDENTIFICATION	SDG ^a	SAMPLE DEPTH bgs ^b (ft ^c)	TPH ^d FIELD SCREENING RESULTS (ppm ^e)	TPH LABORATORY RESULTS ^f (mg/kg ^g)
BOREHOLE NUMBER 4				
326-B4-05		5	309	NS
326-B4-10		10	286	NS
326-B4-15		15	298	NS
326-B4-20		20	496	NS
326-B4-25		25	338	NS
326-B4-30		30	435	NS
326-B4-35		35	369	NS
326-B4-40		40	391	NS
326-B4-45		45	365	NS
BOREHOLE NUMBER B5				
326-B5-05		5	13	NS
326-B5-10		10	26	NS
326-B5-15		15	42	NS
326-B5-20		20	150	NS
326-B5-25		25	188	NS
326-B5-30		30	176	NS
326-B5-35		35	214	NS
326-B5-40		40	211	NS
326-B5-45		45	224	NS
326-B5-50	V1635	50	272	ND
BOREHOLE NUMBER 7^h				
326-B7-05		5	63	NS
326-B7-10	V1640	10	140	ND
326-B7-15	V1640	15	108	ND
326-B7-20		20	113	NS
326-B7-25		25	73	NS
326-B7-30		30	105	NS
326-B7-35		35	63	NS
326-B7-40		40	91	NS
326-B7-45		45	114	NS
326-B7-50		50	89	NS
326-B7-55		55	54	NS
326-B7-60		60	79	NS
326-B7-65		65	39	NS

SAMPLE IDENTIFICATION	SDG ^a	SAMPLE DEPTH bgs ^b (ft ^c)	TPH ^d FIELD SCREENING RESULTS (ppm ^e)	TPH LABORATORY RESULTS ^f (mg/kg ^g)
326-B7-70		70	96	NS
326-B7-75	V1640	75	5	ND
326-B7-80		80	13	NS
326-B7-85		85	16	NS
326-B7-90		90	18	NS
326-B7-95		95	20	NS
BOREHOLE NUMBER 8				
326-B8-05		5	13	NS
326-B8-10		10	11	NS
326-B8-15		15	16	NS
326-B8-20	V1640	20	23	ND
326-B8-25		25	10	NS
326-B8-30		30	15	NS
326-B8-35		35	12	NS
326-B8-40		40	22	NS
BOREHOLE NUMBER 9				
326-B9-05		5	16	NS
326-B9-10		10	6	NS
326-B9-15		15	25	NS
326-B9-20		20	15	NS
326-B9-25		25	29	NS
326-B9-30	V1640	30	46	ND
326-B9-35		35	10	NS
326-B9-40		40	10	NS
326-B9-45		45	5	NS
326-B9-50		50	2	NS

^a SDG - Sample Delivery Group number

^b bgs - below ground surface

^c ft - feet

^d TPH - Total Petroleum Hydrocarbons

^e ppm - parts per million

^f TPH Laboratory analysis by Method 8015 Modified, EPA 1996

^g mg/kg - milligrams per kilograms

^h > 3000 indicates a TPH concentration out of calibration range, i.e., greater than high calibration end point.

ⁱ NS - Not Sampled

^j ND - Not Detected

^k Borehole Number 6 was not drilled based on elevated TPH field screening results for Borehole 4.

borehole (Table 2). Two samples were collected from Borehole 1 and submitted for laboratory analysis; both samples showed TPH levels greater than the Nevada State Action Level of 100 mg/kg (NAC, 2002a). Borehole 2 was located 39 m (127 ft) east of the CP fence over the pipeline and was advanced to a total depth of 16.7 m (55 ft) bgs. Screening samples collected at 1.5-m (5-ft) intervals showed TPH present at levels greater than 75 mg/kg the entire depth of the borehole (Table 2). Three samples were collected from the borehole at 1.5 m (5 ft), 13.7 m (45 ft), and 15.2 m (50 ft) bgs and submitted for laboratory analysis. Results showed TPH levels greater than 100 mg/kg action level (NAC, 2002a) present in the sample collected from 1.5 m (5 ft) bgs. No TPH above laboratory detection limits was found in the samples collected at 13.7 m (45 ft), and 15.2 m (50 ft) bgs (Table 2). Also, Borehole 7 which was located 3 m (10 ft) east of the bend in the pipeline showed no TPH contamination at 3 m (10 ft), 4.5 m (15 ft), or 22.5 m (75 ft) bgs.

Lateral extent was established by drilling and sampling stepout boreholes. Boreholes 3 and 5 were located 3 m (10 ft) south of the pipeline (Figure 3). TPH field screening samples were collected at 1.5 m (5 ft) intervals from the boreholes. The highest TPH field screening result from the two boreholes was 272 ppm (Table 2). Samples with the highest TPH field screening results from each borehole were submitted for laboratory analysis. A total of three samples from the two boreholes were submitted for laboratory analysis. Results showed TPH concentrations less than laboratory detection limits. This indicates that TPH contamination does not extend beyond 3 m (10 ft) south of the pipeline.

Borehole 4 was located 3 m (10 ft) north of the pipeline and was advanced to 13.5 m (45 ft) bgs. Screening samples indicated moderate levels of TPH present, and no samples were submitted for laboratory analysis. Borehole 6 was not drilled based on elevated TPH field screening results in Borehole 4. A second set of stepouts, Boreholes 8 and 9, were drilled 7.2 m (24 ft) north of the pipeline (Figure 3). TPH field screening results for samples collected from both these boreholes were low, and laboratory results confirmed that these boreholes were clean of TPH contamination (Table 2). Based on the borehole sampling results, the lateral extent of the TPH contamination was bounded to an area 3 m (10 ft) south and 7.2 m (24 ft) north of the pipeline, and extending from 7 m (23 ft) east of the CP fence (the location of Geoprobe® sample 062501-26) to 50 m (167 ft) east of the CP fence (the location of Borehole 7). See Figure 3 and the CAS 06-25-01 Use Restriction information provided in Appendix C.

2.1.3 CAS 06-25-02, UST Release Closure Activities

CAS 06-25-02, UST Release, is a hydrocarbon release site associated with over filling the underground heating oil tank (Tank 6-DAF-5). The spill was reported to NDEP (Nevada Division of Emergency Management spill number H930319B) and in March of 1993 approximately 1.7 m³ (2.2 yd³) of hydrocarbon impacted soil was excavated from around the fill port of the tank (DOE/NV, 2001). In August of 1993, three boreholes were drilled to the west, south, and southeast of the spill site, and soil samples were collected for TPH analysis. Sample results were less than the Nevada State Action Level of 100 mg/kg. In March of 1995, approximately 4.5 m³ (6 yd³) of soil was removed from the area of the fill port and spill containment equipment was installed. The three borehole locations effectively bounded any TPH contamination resulting from the spill. On August 15, 2002, the site was surveyed for use restrictions. The use restrictions form for this site is located in Appendix C.

2.1.4 CAS 06-25-04, Petroleum Release Site Closure Activities

This site was closed during the removal of Tank 6-619-4 in 1998 (DOE/NV, 2001). No further action was taken at this site during this field activities. Appendix E contains a copy of the correspondence from the NDEP to DOE/NV confirming the closure of Tank 6-619-4 and that no further action is required at this site.

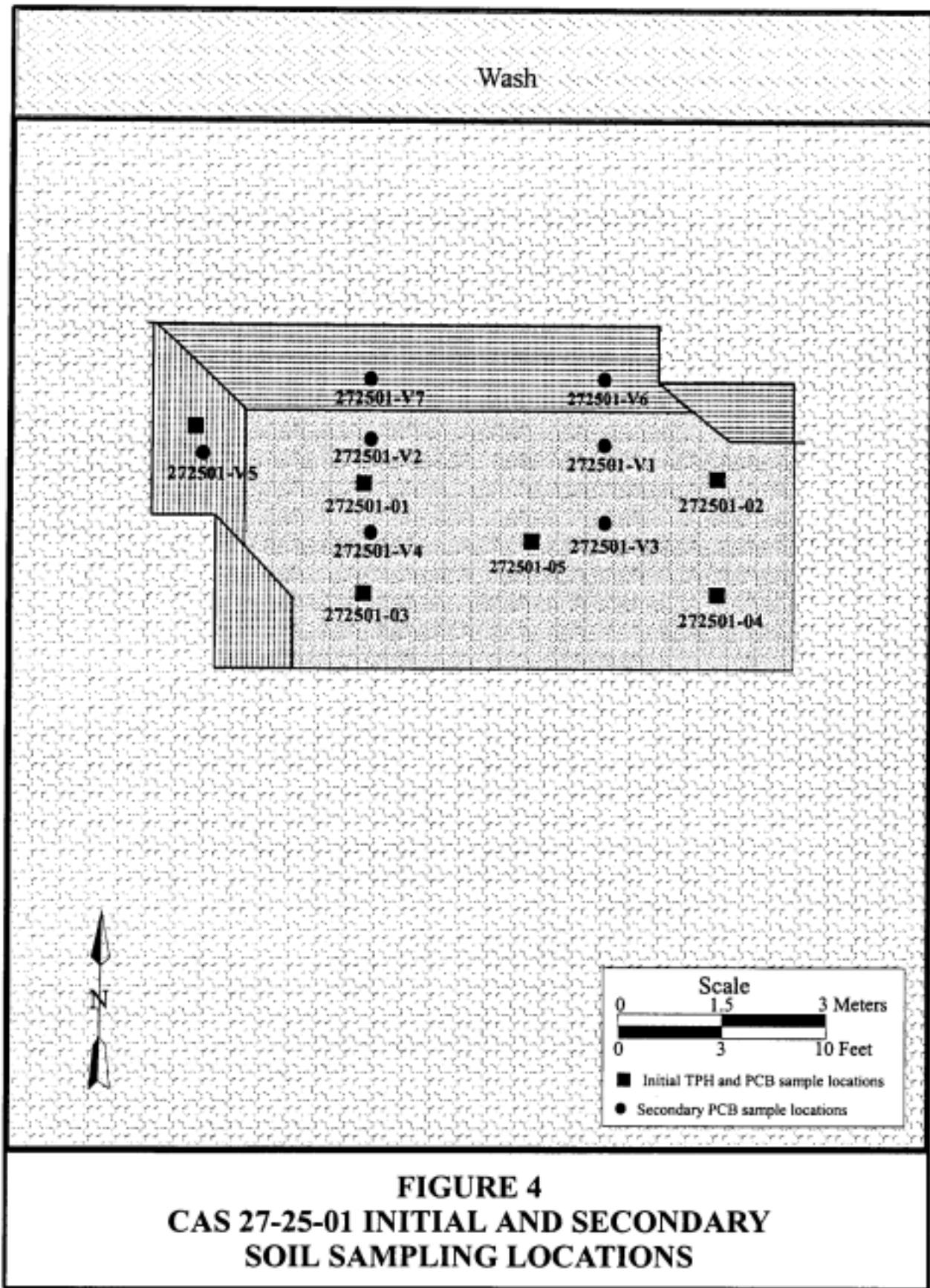
2.1.5 CAS 27-25-01, Petroleum Release - Site Maintenance Closure Activities

During site characterization activities conducted in 1994, TPH and PCBs were found to be present in soil at levels greater than regulatory limits (DOE/NV, 2001). As a result the site was partially remediated in August 1994 by removing approximately 53.5 m³ (70 yd³) of soil and disposing of it in the NTS Area 6 Hydrocarbon Landfill. The excavation was left fenced, but open, following these activities.

In 2002 the site was clean closed by removing and disposing of impacted soil following the NDEP-approved SAFER Plan (DOE/NV, 2001). Three separate activities were undertaken to complete the clean closure of CAS 27-25-01.

In January 2002, approximately 15.3 m³ (20 yd³) of soil that had sloughed into the existing excavation was removed from the site and five soil samples were collected from the bottom of the excavation (Figure 4). The samples were field screened for TPH using a PetroFlag® test kit, and submitted to an offsite laboratory for TPH and PCB analyses. The sample results provided in Table 3 show that TPH was not present in the soil at levels greater than the Nevada State Action Level of 100 mg/kg. However, PCBs were present at levels exceeding the action limit of 1 mg/kg. For this reason, excavation activities continued in the southwest corner, where the PCB impacted soil was detected. In March 2002, approximately 23 m³ (30 yd³) of soil was removed from the southwest corner of the excavation (Figure 4). Using the PCB sampling grid method (40 Code of Federal Regulations, Part 761, [EPA, 2000]), seven samples were collected and sent to the laboratory for PCB analysis. Two of the seven samples exceeded the PCB action limit (Table 3). In addition, as a best management practice, approximately 11 liters (L) (3 gallons [gal]) of lead shot found at the site was placed into a 19-L (5-gal) bucket and transported to Area 23 for recycling.

Excavation activities resumed in June 2002. A PCB field test kit, with a minimum detection limit of 2 ppm, was used to identify and remove the PCB impacted soil on the western wall and floor of the excavation. Approximately 100 m³ (110 yd³) of soil was removed from the western wall and floor of the excavation. After field screening indicated that soil with PCB concentrations greater than 2 ppm had been removed, ten verification samples were collected from the western wall and floor using the PCB sampling grid method (Figure 5). The samples were then analyzed for Aroclor 1248 using an onsite gas chromatograph to assure PCB levels were less than 1 ppm. Once the gas chromatograph indicated that PCB levels for the verification samples were less than 1 ppm, the samples were submitted to an offsite laboratory for PCB analysis. Laboratory results confirmed that all ten verification samples contained PCB concentrations less than the 1 mg/kg action limit (Table 3). All soil excavated from the site during closure had PCB levels less than 50 mg/kg, and was therefore disposed of in the NTS



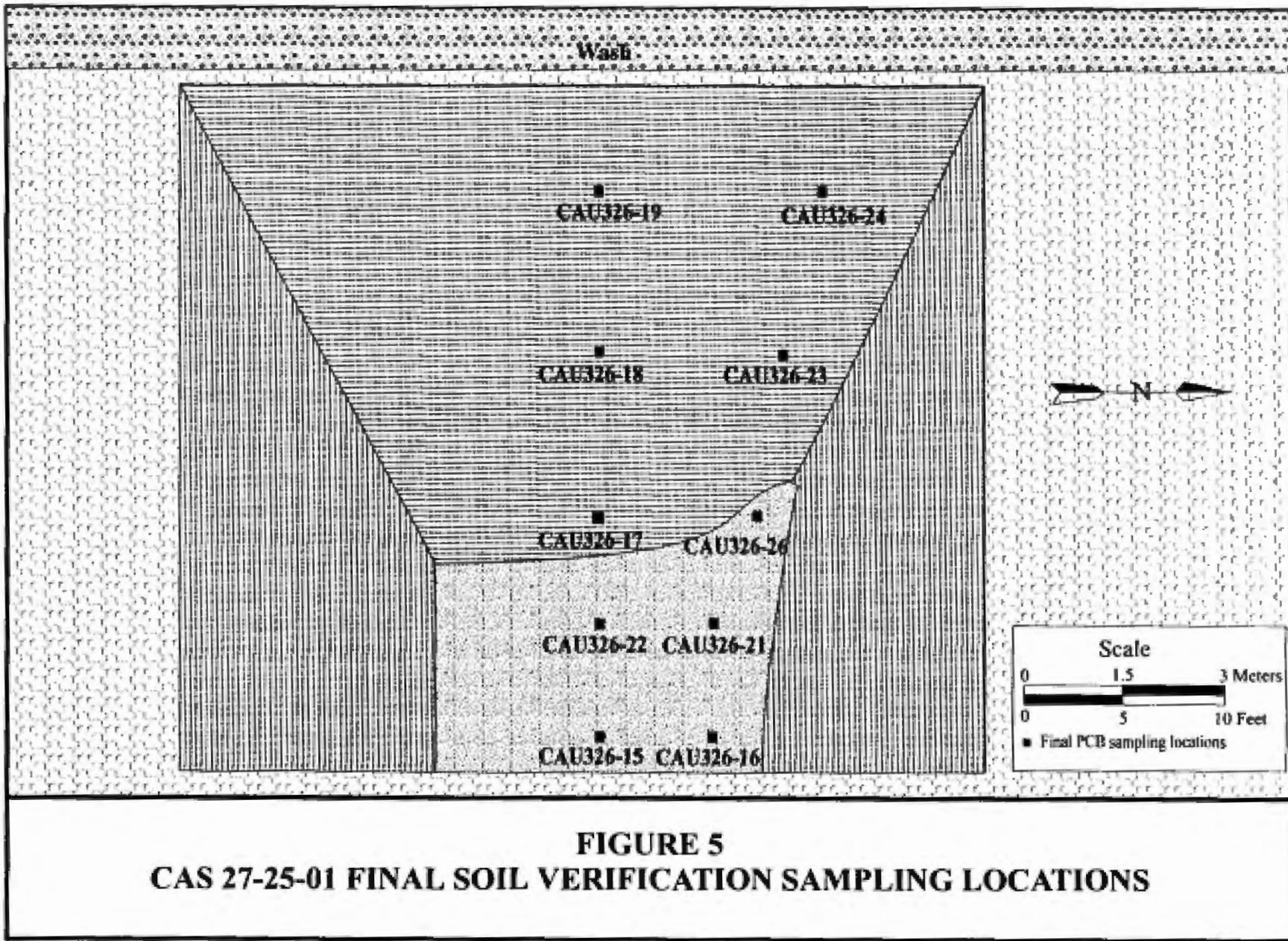


TABLE 3 - TPH and PCB RESULTS FOR CAS 27-25-01 VERIFICATION SAMPLES

SAMPLE IDENTIFICATION	SAMPLE DELIVERY GROUP (SDG)	TOTAL PETROLEUM HYDROCARBONS ^a (mg/kg) ^b	POLYCHLORINATED BIPHENYLS ^c (mg/kg)
NDEP ^d Action Level		100	-
TSCA ^e Action Level		-	1.0
First Excavation January 2002			
272501-01	V1408	54	7.90
272501-02	"	ND ^f	0.71
272501-03	"	28	0.04
272501-04	"	ND	0.08
272501-05	"	35	0.54
Second Excavation March 2002			
272501-V01	V1503	NS ^g	0.25
272501-V02	"	NS	0.23
272501-V03	"	NS	33.00
272501-V04	"	NS	0.35
272501-V05	"	NS	ND
272501-V06	"	NS	5.80
272501-V07	"	NS	0.43
272501-V08 (Equip. rinsate)	"	NS	ND
272501-V09 (Dup of V08)	"	NS	18.00
Third Excavation June 2002			
CAU326-V15	V1624	NS	ND
CAU326-V16	"	NS	0.19
CAU326-V17	"	NS	ND
CAU326-V18	"	NS	ND
CAU326-V19	"	NS	ND
CAU326-V21	"	NS	ND
CAU326-V22	"	NS	0.37
CAU326-V23	"	NS	ND
CAU326-V24	"	NS	ND
CAU326-V25 (Dup of V15)	"	NS	0.05
CAU326-V26	"	NS	ND

^aTotal Petroleum Hydrocarbon analysis by Method 8015 Modified (EPA, 1996).

^bmg/kg - milligrams per kilogram

^cPolychlorinated biphenyls (PCBs) analysis by Method 8082 (EPA, 1996). For all samples except CAU326-V22 only Aroclor 1248 was detected. Sample CAU326-V22 showed Aroclor 1248 and 1254 (see Appendix B).

^dNDEP - Nevada Division of Environmental Protection. TPH regulatory limit set in Nevada Administrative Code, 445A.2272 (NAC, 2002a).

^ePCB regulatory limit of 1 mg/kg is the Toxic Substance Control Act concentration for non-restricted use established by Title 40 Code of Federal Regulations 761.61 (EPA, 2000).

^fND - Not detected for the laboratory reporting limits

^gNS - Not Sampled.

Area 9 10c Landfill. In August 2002, the open excavation was backfilled with clean fill and compacted by wheel rolling. CAS 27-25-01 has been clean closed.

2.2 DEVIATIONS FROM SAFER PLAN AS APPROVED

The following deviation occurred from the approved scope of work as presented in the NDEP-approved SAFER Plan (DOE/NV, 2002).

At the request of NNSA/NV, a second southern pipeline located south of the Area 6 CP parking lot was characterized by TPH field screening and laboratory analysis. The pipeline was broken and exposed at the surface and was found to be the "return" line from Building CP-1 to the heating oil tank (Tank 6-CP-1) (Figure 2). A surface grab sample (Pipeline 2) was collected from the area of the pipeline break and screened for TPH levels using a PetroFlag® test kit. TPH screening results were greater than the Nevada State Action Level of 100 mg/kg. Beginning at the break in the pipeline, stepout locations to north, west, and east on 3-m (10-ft) intervals were sampled using the Geoprobe® (Figure 2). The TPH field screening and laboratory results for the stepout samples are given in Table 4. Based on the sampling results an area measuring 4.5 m by 4.5 m (15 ft by 15 ft) centered about the break in the southern pipeline was closed administratively by implementing use restrictions. The CAU Use Restriction Information form and a figure showing the area closed is provided in Appendix C.

2.3 CORRECTIVE ACTION SCHEDULE AS COMPLETED

The corrective action field activities began in January 2002 and were completed in August 2002. Details of the closure field activities schedule are provided below.

CAS 27-25-01 closure activities:

- Mobilize equipment/personnel to site January 23, 2002
- Complete first excavation and sampling January 24, 2002
- Complete second excavation and sampling March 26, 2002
- Complete third excavation and sampling June 10 - 12, 2002
- Backfill excavation and demobilize site August 19 - 21, 2002

CAS 06-25-01 closure activities:

- Mobilize equipment and personnel to site February 4, 2002
- Geoprobe® and pressure testing pipeline February 4 - 13, 2002
- Drilling and sampling June 6 - 26, 2002
- Demobilize site June 26, 2002

2.4 SITE PLAN/SURVEY PLAT

CAS 06-25-01 and 06-25-02 were closed administratively by implementing use restrictions. Figures giving the site coordinates for the Use Restrictions are provided in Appendix C. These are the only sites that required any survey work. Because engineered construction was not part of this closure, as-built drawings are not included in this CR.

TABLE 4 - TPH RESULTS FOR CAS 06-25-01 SOUTHERN PIPELINE GEOPROBE LOCATIONS

SAMPLE ID	LOCATION	SDG ^a	SAMPLE DEPTH bgs ^b (ft ^c)	TPH ^d FIELD SCREENING RESULTS (ppm ^e)	TPH LABORATORY RESULTS ^f (mg/kg ^g)
Pipeline2	Surface grab from break	V1429	0	> 2,000 ^h	11,000
062501-S1	10 ft west of break	V1535	2	27	ND ⁱ
062501-S1L	10 ft west of break		4	0	NS ^j
062501-S2	Equipment Rinsate	V1535	-	-	ND
062501-S3	10 ft east of break		1.5	723	NS
062501-S3L	10 ft east of break		3	224	NS
062501-S4	3 ft south of break	V1535	2	246	4,300
062501-S4L	3 ft south of break		4	> 2,000	NS
062501-S5	10 ft north of break	V1535	2	323	ND
062501-S5L	10 ft north of break		4	0	NS
062501-S6	20 ft east of break	V1535	2	103	ND
062501-S6L	20 ft east of break		4	0	NS
062501-S7	10 ft north of break	V1535	2	NS	ND
062501-S8	20 ft north of break	V1535	2	0	ND
062501-S8L	20 ft north of break		4	348	NS
062501-S9	30 ft east of break		2	324	NS
062501-S9L	30 ft east of break		4	0	NS
062501-S10	3 ft south of break		1.5	206	NS
062501-S10L	3 ft south of break		3	1,624	NS
062501-S11	30 ft north of break	V1535	2	439	ND
062501-S11L	30 ft north of break		4	0	NS
062501-S12	40 ft east of break		2	798	NS
062501-S12	40 ft east of break		4	269	NS

^a SDG - Sample Delivery Group number

^b bgs - below ground surface

^c ft - feet

^d TPH - Total Petroleum Hydrocarbons

^e ppm - parts per million

^f TPH Laboratory analysis by Method 8015 Modified, U.S. Environmental Protection Agency (EPA) 1996.

^g mg/kg - milligrams per kilogram

^h > 2,000 indicates a TPH concentration out of calibration range, i.e., greater than high calibration end point.

ⁱ ND - Not detected at the laboratory reporting limit.

^j NS - Not Sampled.

3.0 WASTE DISPOSITION

The following types of waste were produced at CAU 326 during closure activities: hydrocarbon-impacted soil, PCB-impacted soil, lead shot, spent methanol solvent, decontamination rinseate, sanitary waste, and some construction debris. All waste was managed in accordance with state and federal regulations, U.S. Department of Energy orders, and BN procedures.

During closure activities at CAS 06-25-01, approximately 34 m³ (45 yd³) of TPH-impacted soil was removed from the site. This soil was excavated in order to expose the area of the pipeline that had ruptured. All of the soil removed from the site was transported and disposed of at the NTS Area 6 Hydrocarbon Landfill. In addition, soil/cuttings from the eight drilled boreholes that were suspected to exceed the TPH action level, were placed into six 208-L (55-gal) drums. The six drum were disposed of in the Area 6 Hydrocarbon Landfill. Waste documentation is provided in Appendix D.

During closure of CAS 27-25-01, debris, including old snow fencing, pieces of wood, and miscellaneous types of construction waste, was removed and disposed of as sanitary waste. In addition, approximately 11 L (3 gal) of lead shot was discovered and was placed into a 19-L (5-gal) bucket and sent to Building 160 in Area 23 for recycling. Approximately 160 m³ (210 yd³) of PCB-impacted soil was removed from the site and was disposed of at the Area 9 10c Landfill.

Waste methanol that was produced as a result of PetroFlag® field screening test kits was placed into the a BN-approved hazardous waste Satellite Accumulation Area in Area 23.

Waste disposition records are provided in Appendix D.

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4.0 CLOSURE VERIFICATION

CAU 326 closure was verified by:

- CAS 06-25-01: A total of 13 borehole soil samples and 12 Geoprobe® soil samples were collected and analyzed to confirm PetroFlag® results and to determine the lateral and vertical extent of TPH contamination along the underground pipelines at CAS 06-25-01 (Tables 1, 2 and 4). Samples were collected using a hollow stem auger drill rig and a Geoprobe® drill rig. Appendix C provides information on the use restrictions placed upon the area, and a figure showing the extent of TPH contamination at the site.
- CAS 27-25-01: The removal of soil with PCB levels greater than 1 mg/kg was verified by collecting and analyzing ten verification soil samples (Table 3). Figure 5 shows the locations of the verification samples. Verification samples showed that remaining soil was below the regulatory limit for unrestricted use for PCBs. After the verification sample results were obtained, the site was backfilled with approximately 266 m³ (350 yd³) of clean fill. The five samples that were initially collected showed that TPH levels were less than the action level.

4.1 DATA QUALITY ASSESSMENT

CAU 326 closure activities were performed to the criteria specified in the Data Quality Objectives (DQOs) presented in the NDEP-approved SAFER Plan (DOE/NV, 2002) (Appendix A). The DQOs primary conceptual site models are considered the probable scenarios for the conditions at the two release sites. The primary conceptual model for CAS 06-25-01 assumed that the observed hydrocarbon release was the only release from the heating oil pipe, and that the preferential pathways for the hydrocarbons would be along the underground pipe and, potentially, along the upper surface of the bedrock. The primary conceptual model for CAS 27-25-01 assumed that only TPH was present at the site, and that due to the low mobility, all PCBs were removed previously.

CAS 06-25-01

Once closure activities were initiated, it was clear that the site more closely resembled the alternative model. The alternate model is considered less likely than the conditions outlined in the primary model. The alternative site model assumed that additional releases of hydrocarbons occurred along the pipeline. The possibility that other hydrocarbon releases had occurred along the pipeline was supported by the failure of the pipeline to hold pressure. Further site characterization of soil samples by TPH field screening and laboratory analysis showed that two segments of the pipeline were clear of TPH contamination. One segment was closed by Use Restriction because characterization samples could not be collected due to safety concerns. The lateral and vertical of TPH contamination at the area of the pipeline break was determined and use restrictions implemented. The alternate site model of CAS 06-25-01 was an accurate representation of the site, and the data collected for the site met all DQOs.

CAS 27-25-01

Once closure activities were initiated, it was clear that the site more closely resembled the alternate model. The alternate model is considered less likely than the conditions outlined in the

primary model. The alternative site model assumed that PCBs were present at the site. Soil sample results from the site showed this to be the case. In fact, TPH was not present at concentration greater than the Nevada State Action Level; the only COCs present at levels greater than action levels were PCBs. Field screening and laboratory results showed that soil with PCB concentrations greater than or equal to 1 mg/kg have been removed from the site. The site was clean closed. The alternate site model of CAS 27-25-01 was an accurate representation of the site, and the data collected for the site met all DQOs.

4.2 USE RESTRICTIONS

Use restrictions have been implemented at two CASs, 06-25-01 and 06-25-02. CAS 06-25-04 and 27-25-01 have been clean closed and use of the areas associated with these sites is unrestricted. Use Restriction information is provided in Appendix C.

4.2.1 CAS 06-25-01, CP-1 Heating Oil Release Use Restrictions

The extent of the TPH plumes at CAS 06-25-01 have been bounded both laterally and vertically by field screening and soil sampling. Use restrictions will be implemented at three locations for this CAS. Use restrictions were implemented at the areas around the original pipeline break located in the Area 6 CP bus parking lot, the segment of pipeline adjacent to the Building CP-1 extending east over a utility corridor, and around the exposed broken southern pipeline located between the Area 6 CP access road and the south edge of the bus parking area. The Use Restriction form and a figure showing the location of the corner points for the areas at CAS 06-25-01 are contained in Appendix C.

4.2.1.1 CAS 06-25-01 A Through K Evaluation

Based on laboratory sample results, soil with a TPH concentration exceeding the State Action Level of 100 mg/kg continues to be present at the CAS 06-25-01 release site. Under these circumstances, the NAC 445A.227 requires an evaluation of the site conditions based on 11 factors that are listed as "A through K" (NAC, 2002b). This section provides the "A through K" criteria evaluation required under NAC 445A.227 for "Contamination of Soil."

Depth to Groundwater (A)

Ground water is approximately 420.5 m (1,380 ft) bgs. The estimated depth is taken from Plate 1 of the Summary of Hydrogeologic Controls on Ground-Water Flow at the Nevada Test Site, Nye County, Nevada (Laczniak et. al., 1996). This plate shows the major controls on regional groundwater flow at the NTS.

Distance to Irrigation or Drinking Water Wells (B)

The nearest water supply is Water Well 4, which is approximately 4.8 kilometers (km) (3 miles [mi]) southwest of the site. In 2002, the static water level was measured at 255 m (837 ft) bgs (U.S. Geological Survey, 2002).

Type of Soil that is Contaminated (C)

The site is located at the NTS in Area 6. Soil at the site consists of interbedded sand and gravel. Drilling and Geoprobe® activities showed the soil to be very tight and containing some thin, interbedded caliche layers. The bedrock consists of a very hard, competent dolomite.

Annual Precipitation (D)

The average annual precipitation at the site is approximately 17 centimeters (cm) (6.7 inches [in]). This was obtained by averaging the precipitation records over a 40-year period (1958 to 1997) for the Yucca Monitoring Station, which is located in Area 6 at the NTS.

Type of Waste or Substance Released (E)

The underground pipeline was used to carry heating oil from Tank 6-CP-1, located west of Building CP-70, to a boiler at Building CP-1.

Extent of Contamination (F)

Soil along the northern pipeline was found to be TPH-impacted for a distance of approximately 51 m (167 ft) along the pipeline (i.e., approximately 18.6 m [61 ft] to the west and 32.3 m [106 ft] to the east of the original break in the pipeline.) Samples collected to the north and south of the pipeline, near the original break, showed that impacted soil was limited to less than 3 m (10 ft) laterally to the south of the pipeline and 7.3 m (24 ft) laterally to the north of the pipeline. Samples collected by drilling at the site of the original release showed impacted soil was present to a depth of 21.5 m (70.5 ft) bgs, where refusal was met using a hollow stem auger. Bedrock is expected to be present at that depth at that location. Samples collected at a location that is downslope (for both surface and anticipated subsurface horizons) and just outside of the impacted area showed no indication of impacted soil to a depth of 30 m (95 ft) bgs.

Soil along one other segment of the northern pipeline, to the west of the original release location, is also assumed to be impacted because this segment of pipeline failed a pressure test. Samples were not collected along this segment of pipe because of the presence of numerous underground utilities in this area. The extent of impact is assumed to be similar to that near the original release location. The extent is not expected to be greater than at the original release location to the east because a surface expression of a significant release would be expected based on the pipeline having been pressurized and the soil conditions being similar.

Along the southern pipeline, the extent of TPH impacted soil was found to be less than 3 m (10 ft) laterally in each direction from the surface break in the pipeline. This extent was identified through samples collected on each side of the pipeline. Vertical extent was not identified; however, it is expected to be less than the depth of impact at the northern pipeline based on relative concentrations at the two release sites.

Present and Potential Land Use (G)

The northern and southern pipelines extend between building CP-1, an active facility, and tank 6-CP-1, which has been drained and filled with concrete. The pipeline extends underneath the CP bus parking lot. Future use at this location is expected to remain the same. A land Use Restriction will be implemented for this site upon concurrence with administrative closure for this site.

Preferred Routes of Migration (H)

The pipeline backfill served as a preferential pathway of migration for leaks along the pipeline. Surface migration of the diesel would not likely occur since most of the pipeline is covered by 0.6 m (2 ft) of soil and topped with asphalt. Any subsurface migration would be vertical migration due to gravity. The maximum extent that the diesel would reach is bedrock, as seen in

the samples collected at Borehole 1 (Table 2). The most likely route of migration then becomes subsurface migration laterally, downslope along the top of the bedrock. However, further migration of hydrocarbons in the soil is not expected because the source of hydrocarbons was removed and the pipeline is no longer used.

The site does not have an exposure pathway because almost all of the impacted soil is below the ground surface and paved with asphalt. Physical contact with impacted soil will not occur unless the soil surrounding the pipeline is excavated to a depth greater than 0.6 m (2 ft). Any impacted soil that is not located beneath asphalt has a maximum migration depth of bedrock, approximately 21 m (70 ft), and since, groundwater is located approximately 420.5 m (1,380 ft) (Laczniak et. al., 1996) bgs, there is no threat of exposure. Volatile components of diesel are expected to be minimal because observations indicate that the diesel has been present in the soil for many years. A Land Use Restriction has been completed so that personnel will be aware of the presence of heating oil in the subsurface.

Location of Structures or Impediments (I)

Samples were not collected along the western segment of the pipeline located inside the Area 6 CP fence due to the presence of numerous underground utilities.

Potential for a Hazard Related to Fire, Vapor, or Explosion (J)

The potential for fire, vapor ignition, or explosion as a result of the diesel in the subsurface soil is low. Most of the areas that have been impacted are covered with asphalt, which impedes upward migration of vapors, and the areas that are not covered by asphalt are well ventilated and are not located near any ignition sources.

Other Factors Specific to the Site (K)

The following are additional factors specific to the site which should be considered in the evaluation for closure:

- The underground pipelines are no longer in use.
- Tank 6-CP-1 has been filled with concrete and cannot be used to pump diesel through the breeched pipelines.
- The site is located within the secured boundaries of the NTS. The likelihood that the site will be used for future use is very low.

4.2.2 CAS 06-25-02, UST Release Use Restrictions

Use restrictions have been implemented at this site. The area of the hydrocarbon spill was previously bounded by soil sampling and analysis. Survey located four points bounding the spill. The Use Restriction form and figure showing the location of the corner points for CAS 06-25-02 are contained in Appendix C.

4.2.2.1 CAS 06-25-02, A Through K Evaluation

Based on laboratory sample results, soil with a TPH concentration exceeding the State Action Level of 100 mg/kg continues to be present at the CAS 06-25-02 release site. Under these circumstances, the NAC 445A.227 requires an evaluation of the site conditions based on 11 factors that are listed as "A through K" (NAC, 2002b). This section provides the "A through K" criteria evaluation required under NAC 445A.227 for "Contamination of Soil."

Depth to Groundwater (A)

Ground water is approximately 378 m (1,240 ft) bgs. The estimated depth is taken from Plate 1 of the Summary of Hydrogeologic Controls on Ground-Water Flow at the Nevada Test Site, Nye County, Nevada (Laczniak et. al., 1996). This plate shows the major controls on regional groundwater flow at the NTS.

Distance to Irrigation or Drinking Water Wells (B)

The nearest water supply is Water Well 4, which is approximately 1.6 km (1 mi) west of the site. In 2002, the static water level was measured at 255 m (837 ft) bgs (U.S. Geological Survey, 2002).

Type of Soil that is Contaminated (C)

The site is located at the NTS in Area 6. Soil at the site is compacted Type II construction fill, underlain by Quaternary alluvium.

Annual Precipitation (D)

The average annual precipitation at the site is approximately 17 cm (6.7 in). This was obtained by averaging the precipitation records over a 40-year period (1958 to 1997) for the Yucca Monitoring Station, which is located in Area 6 at the NTS.

Type of Waste or Regulated Substance Released (E)

Heating oil used to fill Tank 6-DAF-5.

Extent of Contamination (F)

Contamination is limited to the southern third of the tank backfill material plus approximately 0.6 m (2 ft) of native soil laterally and vertically. This is based on the volume of material that was released (i.e., approximately 113 L (30 gal) of heating oil) and samples collected during previous drilling activities to identify extent of impact (DOE/NV, 2001).

Present and Potential Land Use (G)

This site is located next to the southwest corner of Building 500. Building 500 serves as mechanical/electrical support facility to the Device Assembly Facility (DAF). Future use at the site is expected to remain the same.

Preferred Routes of Migration (H)

Based on the conditions and limited precipitation in the area, continued migration of the heating oil from the site is expected to be minimal. The concrete slab covering the tank will inhibit precipitation from reaching the impacted material. The most likely route of any migration would be vertical, although exposure to groundwater is not a threat since the water table is

approximately 378 m (1,240 ft) bgs. Physical contact with impacted soil should not occur unless the site is excavated.

Location of Structures or Impediments (I)

The tank, which continues to be used to store heating oil for the facility, serves as the primary impediment to cleanup of the site. Building 500 is located approximately 10 m (30 ft) north of the spill location.

Potential for a Hazard Related to Fire, Vapor, or Explosion (J)

The potential for fire, vapor ignition, or explosion as a result of the diesel in the subsurface soil is essentially nonexistent. This is supported by the low concentration of petroleum hydrocarbons detected at the time of previous excavation activities and the limited area of impacted soil.

Other Factors Specific to the Site (K)

The following are additional factors specific to the site which should be considered in the evaluation for closure:

- Impacted soil from above the tank has been removed and disposed of in a landfill for hydrocarbon-containing soil. This removes the petroleum hydrocarbon source that would drive any further migration.
- Spill and overfill protection has been installed on the tank fill port. This reduces the potential for additional releases.
- Observations and analytical results indicate that the diesel detected in the subsurface soil is the result of historic spill or overfill of the tank. The tank was upgraded with spill and overfill protection in 1995. At that time, soil was excavated to the top of the tank and backfilled with clean material. There was no indication that any of the spill or overfill systems have failed since installation.
- The site is located within the secured boundaries of the NTS. In addition, it is located within the DAF security area within the NTS. This is an active site and will continue to be used in the future.

5.0 CONCLUSIONS AND RECOMMENDATIONS

5.1 CONCLUSIONS

The following site closure activities were performed at CAU 326 and are documented in the report:

CAS 06-25-01

The lateral and vertical extent of the TPH contaminated soil associated with the Area 6 CP fuel pipeline has been established. Use restrictions have been implemented for the area around the break in the pipeline, the area around a segment of pipeline adjacent to Building CP-1, and for the southern pipeline located between the Area 6 CP access road and the southern edge of the Area 6 CP parking lot.

CAS 06-25-02

This site is associated with an active fuel storage tank. A Use Restriction has been implemented for the area of the fuel spill.

CAS 06-25-04

This spill site was clean closed when Tank 6-619-4 was closed. See Appendix E for a copy of the letter from NDEP acknowledging the closure of Tank 6-619-4 with no further action required.

CAS 27-25-01

160 m³ (210 yd³) of PCB-impacted soil was removed from the site and disposed of in the NTS Area 9 10c Landfill. All verification samples collected from the final excavation (samples CAU326-V15 through CAU326-V26) show that no PCBs are present in the soil at concentrations greater than the regulatory limit of 1 mg/kg. The excavation was backfilled with clean fill and graded to the original site contour. CAS 27-25-01 has been clean closed with no restrictions on the use of the site instituted.

5.2 RECOMMENDATIONS

Based on completion of site closure activities as documented by this CR, it is requested that a Notice of Completion be provided by the NDEP for CAU 326. Upon closure approval, CAU 326 will be promoted from Appendix III to Appendix IV of the FFACO (1996), "Closed Corrective Action Units."

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6.0 REFERENCES

BN, see Bechtel Nevada.

Bechtel Nevada, 2001a. Field Management Plan for Corrective Action Unit 326: Areas 6 and 27 Release Sites, Nevada Test Site, Nevada, Las Vegas, NV.

Bechtel Nevada, 2001b. Site-Specific Health and Safety Plan for Corrective Action Unit 326: Areas 6 and 27 Release Sites, Nevada Test Site, Nevada, Las Vegas, NV.

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

EPA, see U.S. Environmental Protection Agency.

FFACO, see Federal Facility Agreement and Consent Order.

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U.S. Department of Energy, Nevada Operations Office, 2001. Streamlined Approach for Environmental Restoration Plan for Corrective Action Unit 326: Areas 6 and 27 Release Sites, Nevada Test Site, Nevada; Revision 0, DOE/NV--751, Las Vegas, NV.

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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. 2000. Title 40 Code of Federal Regulation 761.61, PCB Remediation Waste, Washington D.C.

U.S. Geological Survey. 2002. Department of Energy Cooperative Studies in Nevada. Accessed on November 25, 2002. http://nevada.usgs.gov/doe_nv/wateruse/ww-4.asp

APPENDIX A
DATA QUALITY OBJECTIVES

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APPENDIX A

DATA QUALITY OBJECTIVES FOR

CORRECTIVE ACTION UNIT 326: AREAS 6 AND 27 RELEASE SITES

The information presented is based on historical data generated from preliminary assessment activities for Corrective Action Unit (CAU) 326, at the Nevada Test Site (NTS). Data quality objective (DQO) information follow the U.S. Environmental Protection Agency (EPA) DQO guidance outline (EPA, 2000). The steps systematically build on the data acquired during preliminary assessment work and background research. Copies of the preliminary assessment work are retained in the project files.

Members of the Scoping Team and Decision Teams are as follows:

1. Scoping Team

- a. U.S. Department of Energy, National Nuclear Security Administration Nevada Operations Office (NNSA/NV):
 - Janet Appenzeller-Wing
 - Sabine Curtis
- b. Nevada Division of Environmental Protection (NDEP):
 - Clem Goewert
 - Greg Raab
- c. Bechtel Nevada (BN):
 - Allison Urbon
 - Don Cox
 - Kraig Knapp
- d. International Technology Corporation (IT):

2. Core Decision Team

- Janet Appenzeller-Wing
- Sabine Curtis
- Allison Urbon

3. Primary Decision Makers

- Janet Appenzeller-Wing
- Sabine Curtis

1. PROBLEM STATEMENT

1.1 State the problem

Four petroleum hydrocarbon release sites have been identified that need to be properly closed. Some of the sites may have been adequately closed but have not been properly documented for closure of the site. The remaining sites may require the collection of additional data and possibly completion of remedial activities before the sites can be closed.

The following four Corrective Action Sites (CASs) are in this CAU:

- CAS 06-25-01, Control Point (CP)-1 Heating Oil Release
- CAS 06-25-02, Underground Storage Tank (UST) Release
- CAS 06-25-04, Petroleum Release Site
- CAS 27-25-01, Petroleum Release - Site Maintenance

1.2 Summarize the problem - combine the relevant background information into a concise description of the problem to be resolved and known or suspected sources of disposed waste

1.2.1 CAS 06-25-01: CP-1 Heating Oil Release (Nevada Division of Emergency Management [NDEM] #911101B)

This CAS addresses closure of the pipeline as well as any releases from the pipeline located in the Area 6 Control Point (CP) area. A known release of diesel to the surface and subsurface soil occurred from a rupture in the underground, pressurized pipe that carried heating oil (diesel) from an underground heating oil tank (Tank 6-CP-1) near Building 6-CP-70 to Building 6-CP-1, a distance of approximately 122 meters (m) (400 feet [ft]). Tank 6-CP-1 held 30,283 Liters (L) (8,000 gallons [gal]) and was installed in 1970. The tank was pumped clean and grouted closed in 1998. The pipeline is estimated to be approximately 0.6 m (2 ft) below ground surface. The release occurred approximately halfway between the two buildings in a paved parking area.

Approximately 38 L (10 gal) of diesel were released to the ground surface; however, an unknown quantity of fuel was released to the subsurface soil. Soil near the rupture was sampled and found to contain 2,490 milligrams per kilogram (mg/kg) total petroleum hydrocarbons (TPH), which exceeds the 100 mg/kg state action level. Additional releases may have occurred from other portions of the piping, as may be indicated by failure of the piping to hold pressure after the known rupture had been repaired. Based on other investigations in the area, bedrock is expected to be a competent dolomite that is approximately 6 to 12 m (20 to 40 ft) below ground surface. Based on process knowledge, the Contaminant of Concern (COC) is diesel.

The lateral and vertical extent of impacted soil and the condition of buried piping that released the fuel are not known. A decision must be made of whether remediation of impacted soil is required or if impacted soil can be closed in place with implementation of a use restriction. The piping needs to be checked for closure and, if it has not been removed or filled with an inert material, the closure requirement for the pipe must be met.

1.2.2 CAS 06-25-02: UST Release (NDEM #H930319B)

Approximately 113.5 L (30 gal) of diesel were released by overfilling a heating oil tank at the Device Assembly Facility (DAF) (tank 6-DAF-5). Approximately 1.7 cubic meters (2.2 cubic yards) of impacted soil were removed at the time of the release. Soil contained 7,160 mg/kg TPH in a sample collected from excavated soil and non-detect to 261 mg/kg TPH in samples collected from the excavation, which exceeds the 100 mg/kg state action

level. Additional samples collected from boreholes that were drilled adjacent to the tank backfill showed no indication of contamination either adjacent to the release site or at depths greater than the base of the tank backfill. Based on process knowledge, the COC is diesel.

Available information is adequate to show that the site can be properly closed through administrative closure; however, this information has not been adequately documented or presented to the State. The area that is subject to Use Restriction must be surveyed to identify the location of the remaining impacted soil.

1.2.3 CAS 06-25-04: Petroleum Release Site (no NDEM #)

This site consists of a release of used oil to the ground surface that occurred when emptying a used oil tank (Tank 6-619-4) at the Area 6 gas station. The asphalt that paved the area above the tank was cracked in numerous places. Documentation was not found that identifies either the date or quantity of the release. The asphalt and the three underground tanks that were present to the northwest of Building 6-619 were removed from the ground in March 1998. Stained soil was observed above and around the used oil tank during the closure of the tank. The stained soil was excavated, tested, and properly disposed of through the UST closure activities.

Closure for this site has already been performed, documented, and approved by the State through documentation of closure activities for UST 6-619-4.

1.2.4 CAS 27-25-01: Petroleum Release - Site Maintenance (NDEM #H940824A)

Stained soil was discovered around the base of a pad that was used by Site Maintenance to store equipment, tools, and supplies. Samples collected of the stained soil contained TPH at concentrations of 31,400 and 27,000 mg/kg as diesel and Polychlorinated Biphenyls (PCBs) at concentrations of <0.167 and 2.37 mg/kg as Aroclor 1248. Other analytical results were either less than detection levels or less than regulatory limits. Approximately 53.5 cubic meters (70 cubic yards) of impacted soil were excavated and disposed of as petroleum hydrocarbon waste. Based on observations at the completion of excavation, all of the impacted soil was not removed. Samples were not collected from the completed excavation. Based on analytical results from the most heavily impacted areas near the source of the release, the Contaminants of Potential Concern (COPCs) for this site are TPH (as diesel) and PCBs.

The concentrations of COPCs remaining in the soil and the lateral and vertical extent of impacted soil are not known. Concentrations of COPCs remaining at the site must be determined to identify if they exceed action levels. If action levels are exceeded, a decision must be made of whether remediation of impacted soil is required or if impacted soil can be closed in place with the implementation of use restrictions.

2. DEVELOP/REFINE THE CONCEPTUAL MODEL

Available information, including site process knowledge and historical background information, is sufficient to support the conceptual site models (CSM) for CAU 326. The CSMs describe the most probable scenarios for current conditions at each site and define the assumptions that are the basis for identifying appropriate sampling strategy and data collection methods.

All of the sites involve releases of petroleum hydrocarbons to surface or near-surface soil. The released substances will typically migrate downward due to gravity and will also flow downslope from the source if the soil conditions do not allow the fuel to seep in as quickly as the release is occurring. Previously disturbed ground, such as occurs along buried piping and utility corridors, will also serve as a preferential pathway. After the initial release has stopped, the fuel typically continues to migrate downward with gravity until equilibrium is reached and thereafter if additional pressure is added to the system, such as what occurs with a new release or as a result of rainfall.

2.1 Primary Models

The primary models are considered the most probable scenarios for current conditions at the CAU 326 sites. The proposed activities are based upon the assumption that only diesel- and oil-range petroleum hydrocarbons remain at the sites. All of the sites are expected to fit the basic conceptual model with minor variations caused by site-specific preferential pathways, as identified below for each individual site:

- CAS 06-25-01, CP-1 Heating Oil Release: The primary model assumes that the observed release of diesel was the only release from the piping. (Note: This model could be supported if the loss in pressure was caused by a valve that was not sealing properly and thus did not release product outside of the system tank system.) Preferential pathways for the released product would be along the underground pipe that is the source of the release and, if released product was substantial, along the upper surface of bedrock (see CSM for 06-25-01).
- CAS 06-25-02, UST Release: The preferential pathway for this site is along the fill pipe and into the tank backfill (see CSM for 06-25-02).
- CAS 06-25-04, Petroleum Release Site: A CSM has not been developed for this site because the release has been remediated. This site has been clean closed.
- CAS 27-25-01, Petroleum Release - Site Maintenance: The primary model for this site assumes that TPH (as diesel/oil) is present but, because of their low mobility, PCBs were removed during previously-conducted excavation activities (see CSM for 27-25-01). There are no identified preferential pathways for this site.

2.2 Alternate Models

The conditions under the alternate model are considered less likely than the conditions outlined in the primary model.

- CAS 06-25-01, CP-1 Heating Oil Release: The alternate model for this site provides for additional releases from the piping. Preferential pathways would be the same as for the primary model.
- CAS 06-25-02, UST Release: An alternate model has not been developed for this site because existing data show the primary model to be an adequate representation of current site conditions.
- CAS 06-25-04, Petroleum Release Site: An alternate model is not necessary for this site. This site has been clean closed.
- CAS 27-25-01, Petroleum Release - Site Maintenance: The alternate model provides for PCBs above detection limits.

3. IDENTIFY THE DECISION (Select the appropriate decision for the current phase of the site assessment process)

A SAFER Plan can be developed based on the currently available sampling data and available waste and site characterization data. The following decisions must be made to direct the planning phases.

3.1 CAS 06-25-01, CP-1 Heating Oil Release

Should the site be administratively closed in place with no remediation activities, closed in place with remediation activities, or clean closed?

3.2 CAS 06-25-02, UST Release

Are existing data sufficient to support administrative closure of the site with no further action other than implementation of a Use Restriction?

3.3 CAS 06-25-04, Petroleum Release Site

Are existing data sufficient to demonstrate clean closure of the site?

3.4 CAS 27-25-01, Petroleum Release - Site Maintenance

If PCBs are present at the site, should remedial actions be taken to satisfy Toxic Substances Control Act (TSCA) clean-up requirements?

If TPH is present in concentrations greater than action levels, should the site be

administratively closed in place with no remediation activities, closed in place with remediation activities, or clean closed?

4. IDENTIFY THE INPUTS TO THE DECISION

4.1 Identify the information inputs needed and resolve the decision.

4.1.1 CAS 06-25-01, CP-1 Heating Oil Release

- a. Has the piping been properly closed? Locate both ends of the pipe and check if the pipe has been sealed.
- b. Has the piping released product from areas other than the known rupture? Locate the underground piping. Collect samples from along the piping to check for evidence of other releases along the length of the pipe.
- c. What is the lateral and vertical extent of the soil impacted by petroleum hydrocarbons in excess of 100 mg/kg? Collect samples to identify the lateral and vertical extent of soil that has been impacted by fuel that has been released from the piping.
- d. Should the site be administratively closed in place with no remediation activities, closed in place after conducting some remediation activities, or clean closed? Evaluate the results of sampling against the A through K criteria to identify if implementation of a Use Restriction with no other actions will adequately protect human health and the environment. If results indicate that additional actions are required, then identify the actions that must be taken to adequately protect human health and the environment.

4.1.2 CAS 06-25-02, UST Release

No decision to be made. Facility is active. This site should be closed under a Use Restriction.

4.1.3 CAS 06-25-04, Petroleum Release Site

Existing documentation already describes remediation activities and clean closure of the site.

4.1.4 CAS 27-25-01, Petroleum Release - Site Maintenance

- a. Identify the detection limit that should be established for PCBs. The suggested detection limit is 1 mg/kg, which is a conservative limit by the TSCA PCB regulations where the "quantifiable level/level of detection" is defined as 2 mg/kg in 40 Code of Federal Regulations Part 761.3 (EPA, 2000).

- b. Are PCBs present at concentrations greater than the established detection limit? Collect samples to verify the presence or absence of PCBs.
- c. Do TPH concentrations exceed the state action level of 100 mg/kg? Collect samples to identify if TPH concentrations exceed the action level.
- d. What is the lateral and vertical extent of soil containing COPCs greater than the established action levels? Collect samples to identify the lateral and vertical extent of soil that has been impacted by the release.
- e. Should the site be administratively closed in place with no remediation activities, closed in place after conducting some remediation activities, or clean closed?
 - If PCBs are present at concentrations greater than the established detection limit, should the site be cleaned up to meet TSCA remediation standards? Because the clean-up level for unrestricted use at PCB remediation sites is 1 mg/kg, recommend cleanup to that level.
 - For TPH impacted soil, evaluate the results of sampling against the A through K criteria to identify if implementation of a Use Restriction with no other actions will adequately protect human health and the environment. If results indicate that additional actions are required, then identify the actions that must be taken to adequately protect human health and the environment.

4.2 List types of COPCs and affected media.

The types of COPCs are:

- Diesel fuel in soil (CAS 06-25-01, 06-25-02, and 27-25-01) and underground piping (CAS 06-25-01)
- Oil in soil (CAS 27-25-01)
- PCBs in soil (CAS 27-25-01)

4.3 Identify potential sampling approaches and appropriate analytical methods.

Existing documentation, data, and process knowledge are adequate to close two of the sites without collecting additional data: CAS 06-25-02 and 06-25-04. For these two sites, existing data will be referenced in the SAFER Plan and documented in the closure documentation to demonstrate adequate closure of the sites. Potential sampling approaches and analytical methods for the other two sites are as follows:

4.3.1 CAS 06-25-01, CP-1 Heating Oil Release

- a. Locate Pipeline: Locate the entire length of underground pipe. This is proposed to be done following standard buried pipeline location (e.g., Goldak equipment or similar).

- b. Check Pipeline for Proper Closure: Check both ends of the pipe and verify if the pipe has been sealed at both ends. Some excavation may be necessary to expose the piping. If the ends of the piping are not in accessible locations (e.g., if structures have been constructed over the top of the piping), alternate locations along the pipeline may be exposed to check for grout. If the piping has not been sealed, then take measures to properly close the pipe.
- c. Check Soil Along Pipeline for Evidence of Releases: Collect samples from soil adjacent to or beneath the piping to identify if and where releases may have occurred along the piping. Samples will be collected from as close to the piping as is practical, at a depth from 0-0.6 m (0-2 ft) below depth of the pipe. Samples to be collected every 6 m (20 ft) using Geoprobe. Alternative methods, such as excavation using backhoe or sampling using a drill rig, may be implemented as needed, depending on site conditions. Field screen the samples using the PetroFlag (or comparable) field test kit. Samples will be submitted for laboratory analysis if PetroFlag results indicate TPH concentrations greater than 75 parts per million (ppm). Laboratory analytical results will be used to determine if actual concentrations exceed the 100 mg/kg action level.
- d. Identify the lateral and vertical extent of TPH exceeding action levels: Either using the Geoprobe or hollow-stem auger drill rig (as site conditions allow), collect samples to identify lateral and vertical extent of TPH greater than 100 mg/kg. Geoprobe/drill at locations where samples exceeded the action level and collect samples at 1.5-m (5-ft) intervals, starting with the interval 1.5 m (5 ft) below the pipeline sample. (Note: If two or more adjacent pipeline samples indicate a large plume, only that location with the highest concentration in that plume will be sampled for vertical definition.) Geoprobe/drill to a maximum depth indicating two intervals with field-screening less than 75 ppm TPH or drilling refusal, whichever occurs first.

The Geoprobe does not have the power that drilling has in penetrating tight soil; therefore, refusal by the Geoprobe will not be the limiting factor for vertical sample collection. If total depth of impacted soil is not determined, but samples at least 1.5 m (5 ft) apart are able to be collected that indicate a significant (at least 20 percent) decrease in TPH concentrations, then the results may be used to extrapolate the extent of impact.

Collect samples from step-out locations using the geoprobe/drill rig. Step-outs will be located 6 m (10 ft) perpendicularly away from the pipeline. Samples will be collected at 1.5-m (5-ft) intervals, starting at 1.5 m (5 ft) below ground surface. Additional step-outs will be drilled and sampled until field screening results indicate that the extent of petroleum hydrocarbons exceeding 100 mg/kg (i.e., 75 ppm with PetroFlag) has been identified.

Samples will be submitted for laboratory analysis using EPA Method 8015, modified for TPH-diesel (EPA, 1996). If field screening indicates the presence of TPH greater than 100 mg/kg (i.e., >75 ppm with PetroFlag), then two samples will

be submitted for analysis: the sample with the highest field-screening concentration and the first sample below that indicates concentrations are less than 100 mg/kg. If field screening does not indicate TPH greater than 100 mg/kg, then only one sample will be submitted of the highest field screening result greater than 40 or, if none are greater than 40, of the sample collected from the interval where the highest concentration was detected in adjacent borehole/sampling locations. If the step-out is made to track potential migration along the bedrock, then the deepest sample before refusal is met will be submitted for analysis.

- e. Survey for Use Restriction: Survey at least four points that will bound the area impacted with TPH and implement a Use Restriction.

4.3.4 CAS 27-25-01, Petroleum Release - Site Maintenance

- a. Verify the presence of TPH Greater than the action level and the absence of PCBs: Using backhoe (or similar), collect samples from the center base and four corners of the existing excavation. Field-test for TPH using PetroFlag (or comparable). Submit for laboratory analysis using EPA Method 8015, modified for TPH-diesel/oil and EPA Method 8082 for PCBs (EPA, 1996).
- b. Identify the lateral and vertical extent of TPH exceeding action levels: Drill and collect samples to identify lateral and vertical extent of TPH greater than 100 mg/kg. Drill at locations where samples exceeded the action level and collect samples at 1.5-m (5-ft) intervals, starting with the interval 1.5 m (5 ft) below the backhoe sample. Drill to a maximum depth indicating 2 intervals with field-screening less than 75 ppm TPH or 15 m (50 ft), whichever occurs first.

Collect samples from step-out locations using the drill rig. Step-outs will be spaced 6 m (10 ft) apart. Samples will be collected at 5-foot intervals, starting at 1.5 m (5 ft) below ground surface. Additional step-outs will be drilled and sampled until field screening results indicate that the extent of petroleum hydrocarbons exceeding 100 mg/kg (i.e., 75 ppm with PetroFlag) has been identified.

Samples will be submitted for laboratory analysis using EPA Method 8015, modified for TPH-diesel/oil (EPA, 1996). If field screening indicates the presence of TPH greater than 100 mg/kg (i.e., >75 ppm with PetroFlag), then two samples will be submitted for analysis: the sample with the highest field-screening concentration and the first sample below that indicates concentrations are less than 100 mg/kg. If field screening does not indicate TPH greater than 100 mg/kg, then only one sample will be submitted of the highest field screening result greater than 40 or, if none are greater than 40, of the sample collected from the interval where the highest concentration was detected in adjacent borehole/sampling locations.

- c. Backfill excavation: Mark excavation location and backfill excavation.

d. **Survey for Use Restriction:** Survey at least four points that will bound the area impacted with TPH and implement a Use Restriction.

5. DEFINE THE BOUNDARIES OF THE STUDY

5.1 Define the geographic areas of the field investigation.

5.1.1 Define the geographic area within which all decisions must apply (in some cases this may be defined by the Corrective Action Unit)

- **CAS 06-25-01, CP-1 Heating Oil Release:** The length and location of the underground pipeline from the tank to where it was disconnected near the CP-1 boiler and 9 m (30 ft) laterally in each direction perpendicular to the piping.
- **CAS 06-25-02, UST Release:** The area identified as diesel-impacted by the conceptual model. Laterally, this consists of the southern third of the underground tank backfilled area plus an additional 0.6 m (2 ft) laterally and vertically.
- **CAS 06-25-04, Petroleum Release Site:** Not applicable - site has been closed.
- **CAS 27-25-01, Petroleum Release - Site Maintenance:** The contiguous area impacted by the release for which excavation had previously been started. This is anticipated to be no more than 15 m (50 ft) in diameter and 12 m (40 ft) deep.

5.1.2 Specify the characteristics that define the population of interest.

The population of interest consists of the following:

- Underground piping that has not been properly closed (CAS 06-25-01).
- Soil containing TPH in the diesel/oil range (diesel only for CAS 06-25-01) in concentrations greater than 100 mg/kg (CASs 06-25-01 and 27-25-01).
- Soil containing PCBs in concentrations greater than 1 mg/kg (CAS 27-25-01).

5.2 Define the time frame of the decision.

5.2.1 Determine the time frame to which the study data apply

Study data should be relevant for the length of time allowed for by the Streamlined Approach For Environmental Restoration (SAFER) process through the Federal Facilities Agreement and Consent Order (FFACO) agreement. Because the sites are located in desert areas with minimal surface water infiltration, migration (if occurring) is assumed to be imperceptibly slow. The only exception would be in the case of a new release at the active site (CAS 06-25-02).

5.2.2 Determine when to collect data.

Field activities (data collection) are anticipated to be scheduled for fiscal year 2002. Data will be collected after approval of the SAFER Plan and at times allowable for security and safety reasons, especially since several of the sites are within restricted access areas of the Nevada Test Site (NTS).

5.2.3 Define relevant time constraints.

The FFACO deadline for delivery of the final SAFER Plan is September 28, 2001.

The FFACO deadline for delivery of the final SAFER Closure Report has not been established but will depend on time constraints dictated by site access and receipt of sample analytical results. Field activities will not be performed during electrical storms, heavy winds, or during holidays.

5.3 Identify any practical constraints on data collection.

- Approval of the Data Quality Objectives (DQO) process and the SAFER Plan by the NDEP.
- Scheduled testing activities (NTS security constraints).
- Equipment and personnel access, which may be especially constrained in secure areas of the CP and DAF compounds and Area 27.
- Meteorological.
- Availability of heavy equipment.
- Health and safety of workers, especially around physical hazards such as the excavation at the CAS 27-25-01 site.

6. DEVELOP A DECISION RULE - DEFINE A LOGICAL BASIS FOR CHOOSING AMONG ALTERNATIVE ACTIONS

6.1 Specify the action level or preliminary action level for the decision.

The action level is 100 mg/kg TPH as diesel/oil and, for the Area 27 site, there is an additional action level of 1 mg/kg PCBs.

7. OPTIMIZE THE DESIGN - OUTLINE A SAMPLING DESIGN, SPECIFYING THE OPERATIONAL DETAILS OF THE SAMPLING PLAN WHICH FALLS WITHIN THE PROJECTS CONSTRAINTS

7.1 Develop general sampling and analysis design alternatives.

Refer back to Section 4.3 for sampling and analysis alternatives.

7.2 Select the most resource-effective design that satisfies all of the DQOs.

- a. Phase 1 Sampling: Sample at CAS 06-25-01 along the pipeline and at CAS 27-25-01 to verify the presence or absence of COPCs.
- b. Phase 2 Sampling: After receipt of analytical results, sample at step-out locations as identified by results of the phase 1 sampling.
- c. Survey and implement Use Restrictions after analytical results have been received and the use restricted area has been identified.

7.3 Document the operational details and theoretical assumptions of the selected design in the sampling and analysis plan.

Detailed documentation of sampling and analysis will be discussed in the SAFER Plan.

REFERENCES

U.S. Environmental Protection Agency. 2000. Guidance for the Data Quality Objective Process, EPA QA/G-4, EPA/600/R-96-055. Washington, D.C.

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

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APPENDIX B

VERIFICATION SAMPLE ANALYTICAL RESULTS

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TABLE OF CONTENTS - SAMPLE ANALYTICAL RESULTS BY SAMPLE DELIVERY GROUP

Note: Analytical results are presented in this Appendix in order indicated below.

CAS 27-25-01

SDG V1408: First Excavation Sample No.	272501-01...272501-05
SDG V1503: Second Excavation Sample No.	272501-V01...272501-V09
SDG V1624: Verification Sample No.	CAU326-V15...CAU326-V26

CAS 06-25-01

SDG V1429: Pipeline Sample No	062501-01...062501-13L
SDG V1432: Pipeline Sample No	062501-22...062501-26
SDG V1535: Southern Pipeline Sample No.	062501-S1...062501-S11
SDG V1625: Borehole Sample No.	326-B1-10, and 326-B1-45
SDG V1622: Borehole Sample No.	326-B2-5...326-B2-50
SDG V1635: Borehole Sample No.	326-B3-45...326-B5-50
SDG V1640: Borehole Sample No.	326-B7-10...326-B9-30

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SAMPLE DELIVERY GROUP

V1408

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26 February 2002

Mr. Theodore Redding
Bechtel Nevada Corporation
2621 Losee Road
Mail Stop NTS273
Las Vegas, NV 89030-4134

**RE: Subcontract No. 30028, Task Order No. 1
Data Report for LVL Batch 0201L853
SDG#: V1408 Chain of Custody Record: None (Project CAU326)**

Dear Mr. Redding:

Enclosed please find the data report for 5 soil samples received 25 January 2002 for analysis for PCBs and TPH GRO, DRO/ORO on a 28 day turnaround time. The invoice and copy of the chain of custody forms are enclosed. The EDD is also enclosed.

These data were faxed earlier and the duplicate sample was analyzed following the fax on sample 01 instead of 05 per your request.

Please do not hesitate to contact me at (610) 280-3029 with any questions or at any time we may be of service.

Very truly yours,

Lionville Laboratory Incorporated

/s/ Judith Stone

Judith L. Stone
Senior Project Manager

Enclosure:

ANALYTICAL SERVICES LABORATORY
SERVICES REQUEST & CHAIN OF CUSTODY RECORDPage 1 of 1

PROJECT/CLIENT INFORMATION			REPORT INFORMATION			SAMPLE INFORMATION				
Project: <u>CAIR 326</u>	BN Org#: <u>2136</u>	Send Report to: <u>Mike Kruze</u>	Sampling Site: <u>Area 27 Site maintenance yard</u>							
Charge No: <u>54076223</u>	ASL Prog: _____	Phone: <u>7796</u> Fax: <u>7761</u> MIS: <u>NTS 304</u>								
Project Manager: <u>Wayne Johnson</u>	_____	Turnaround: <input checked="" type="checkbox"/> Standard - 30 days Non-rad, 60 Days Rad, Other: _____ <input type="checkbox"/> Rush Preliminary by: _____ Final by: _____								
Phone: _____	Fax: <u>7741</u> MIS: <u>ND306</u>	Final report format: <input type="checkbox"/> Standard <input type="checkbox"/> NTS-WAC <input type="checkbox"/> Other: _____								
LAB USE ONLY			ANALYSES & METHOD						SAMPLE RECEIPT INFORMATION	
Rad SGD: _____	Non-Rad SGD: <u>V1408</u>	_____	TPH total / <u>PCB</u>	TPH total / <u>PCB</u>	TPH total / <u>PCB</u>	TPH total / <u>PCB</u>	TPH total / <u>PCB</u>	TPH total / <u>PCB</u>	TPH total / <u>PCB</u>	Are all sample containers received intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Comments: _____
Rad Packet: _____	Non-Rad Packet: _____	_____	TPH total / <u>PCB</u>	TPH total / <u>PCB</u>	TPH total / <u>PCB</u>	TPH total / <u>PCB</u>	TPH total / <u>PCB</u>	TPH total / <u>PCB</u>	TPH total / <u>PCB</u>	Do the labels agree with this form? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Comments: _____
Client Services Representative: _____			TPH total / <u>PCB</u>	TPH total / <u>PCB</u>	TPH total / <u>PCB</u>	TPH total / <u>PCB</u>	TPH total / <u>PCB</u>	TPH total / <u>PCB</u>	TPH total / <u>PCB</u>	Was a Material Clearance Tag submitted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Comments: _____
Will these analyses be performed under a signed SOW? <input type="checkbox"/> YES <input type="checkbox"/> NO If so, do analyses entered here agree with the SOW? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A If not, identify the variation _____			TPH total / <u>PCB</u>	TPH total / <u>PCB</u>	TPH total / <u>PCB</u>	TPH total / <u>PCB</u>	TPH total / <u>PCB</u>	TPH total / <u>PCB</u>	TPH total / <u>PCB</u>	Comments (Preservative, size/volume, MS/MSD, special analysis, rad matrix code, count time, etc.) 1-15 mL clear wide mouth fl. / " " " " " " " " RUN A DUPLICATE ANALYSIS FROM SAMPLE 272501-05 for both TPH and PCB. per KKK (cc 11/24/02) (See Attached email)
ITEM	ID / DESCRIPTION	SAMPLING DATE	TIME	MATRIX	TPH total / <u>PCB</u>	TPH total / <u>PCB</u>	TPH total / <u>PCB</u>	TPH total / <u>PCB</u>	TPH total / <u>PCB</u>	Comments (Preservative, size/volume, MS/MSD, special analysis, rad matrix code, count time, etc.) 1-15 mL clear wide mouth fl. / " " " " " " " " RUN A DUPLICATE ANALYSIS FROM SAMPLE 272501-05 for both TPH and PCB. per KKK (cc 11/24/02) (See Attached email)
0	272501-01	1/23/02	11:01	soil	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Comments (Preservative, size/volume, MS/MSD, special analysis, rad matrix code, count time, etc.) 1-15 mL clear wide mouth fl. / " " " " " " " " RUN A DUPLICATE ANALYSIS FROM SAMPLE 272501-05 for both TPH and PCB. per KKK (cc 11/24/02) (See Attached email)
1	272501-02	1/23/02	11:01	soil	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Comments (Preservative, size/volume, MS/MSD, special analysis, rad matrix code, count time, etc.) 1-15 mL clear wide mouth fl. / " " " " " " " " RUN A DUPLICATE ANALYSIS FROM SAMPLE 272501-05 for both TPH and PCB. per KKK (cc 11/24/02) (See Attached email)
2	272501-03	1/23/02	11:07	soil	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Comments (Preservative, size/volume, MS/MSD, special analysis, rad matrix code, count time, etc.) 1-15 mL clear wide mouth fl. / " " " " " " " " RUN A DUPLICATE ANALYSIS FROM SAMPLE 272501-05 for both TPH and PCB. per KKK (cc 11/24/02) (See Attached email)
3	272501-04	1/23/02	11:09	soil	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Comments (Preservative, size/volume, MS/MSD, special analysis, rad matrix code, count time, etc.) 1-15 mL clear wide mouth fl. / " " " " " " " " RUN A DUPLICATE ANALYSIS FROM SAMPLE 272501-05 for both TPH and PCB. per KKK (cc 11/24/02) (See Attached email)
4	272501-05	1/23/02	11:11	soil	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Comments (Preservative, size/volume, MS/MSD, special analysis, rad matrix code, count time, etc.) 1-15 mL clear wide mouth fl. / " " " " " " " " RUN A DUPLICATE ANALYSIS FROM SAMPLE 272501-05 for both TPH and PCB. per KKK (cc 11/24/02) (See Attached email)
5	LAST ITEM	_____	_____	_____	_____	_____	_____	_____	_____	Comments (Preservative, size/volume, MS/MSD, special analysis, rad matrix code, count time, etc.) 1-15 mL clear wide mouth fl. / " " " " " " " " RUN A DUPLICATE ANALYSIS FROM SAMPLE 272501-05 for both TPH and PCB. per KKK (cc 11/24/02) (See Attached email)
6	_____	_____	_____	_____	_____	_____	_____	_____	_____	Comments (Preservative, size/volume, MS/MSD, special analysis, rad matrix code, count time, etc.) 1-15 mL clear wide mouth fl. / " " " " " " " " RUN A DUPLICATE ANALYSIS FROM SAMPLE 272501-05 for both TPH and PCB. per KKK (cc 11/24/02) (See Attached email)
7	_____	_____	_____	_____	_____	_____	_____	_____	_____	Comments (Preservative, size/volume, MS/MSD, special analysis, rad matrix code, count time, etc.) 1-15 mL clear wide mouth fl. / " " " " " " " " RUN A DUPLICATE ANALYSIS FROM SAMPLE 272501-05 for both TPH and PCB. per KKK (cc 11/24/02) (See Attached email)
8	_____	_____	_____	_____	_____	_____	_____	_____	_____	Comments (Preservative, size/volume, MS/MSD, special analysis, rad matrix code, count time, etc.) 1-15 mL clear wide mouth fl. / " " " " " " " " RUN A DUPLICATE ANALYSIS FROM SAMPLE 272501-05 for both TPH and PCB. per KKK (cc 11/24/02) (See Attached email)
9	_____	_____	_____	_____	_____	_____	_____	_____	_____	Comments (Preservative, size/volume, MS/MSD, special analysis, rad matrix code, count time, etc.) 1-15 mL clear wide mouth fl. / " " " " " " " " RUN A DUPLICATE ANALYSIS FROM SAMPLE 272501-05 for both TPH and PCB. per KKK (cc 11/24/02) (See Attached email)
Transfer of samples submitted for analyses			Complete for samples shipped to an OFF-SITE Subcontract Laboratory						LIONVILLE	
Sampled/Relinquished (Signature/Organization)		DATE / TIME	Received by (Signature/Organization)		Relinquished (BN Representative Signature)		DATE / TIME	Received (Courier & Tracking Info.)		
/s/ Signature on file		1/23/02 11:01	/s/ Signature on file		/s/ Signature on file		1/24/02 11:30	FED EX#-791761866467		
/s/ Signature on file		1/23/02 11:01	/s/ Signature on file		Relinquished (Courier & Tracking Info.)		DATE / TIME	Received (1st tier Subcontractor Rep)		
/s/ Signature on file		1/23/02 11:01	/s/ Signature on file		Relinquished (1st tier Subcontractor Rep)		DATE / TIME	Received (2nd tier Subcontractor Rep)		

Distribution: Original - To be retained by laboratory performing final analysis
 Copy 1 - To be retained by laboratory performing intermediate analysis
 Copy 2 - To be retained by Analytical Services Laboratory
 Copy 3 - To be retained by sampler

CASE NARRATIVE



Analytical Report

Client: BECHTEL NEVADA
LVL#: 0201L853

W.O.#: 60052-001-001-0001-00
Date Received: 01-25-02

DIESEL RANGE ORGANICS

The set of samples consisted of five (5) soil samples collected on 01-23-02.

The samples and their associated QC samples were prepared on 01-29-02 and analyzed according to Lionville Laboratory OPs based on EPA Method 8015B for Diesel Range Petroleum Hydrocarbons on 01-31-02.

1. All results presented in this report are derived from samples that met LVLI's sample acceptance policy with the exception of cooler temperature, which has been recorded on the chain of custody.
2. All required holding times for extraction and analysis were met.
3. All initial calibrations associated with this data set were within acceptance criteria.
4. All continuing calibration standards analyzed prior to the sample extracts were within acceptance criteria.
5. All surrogate recoveries were within acceptance criteria.
6. All blank spike recoveries were within acceptance criteria.

/s/ Signature on file

Iain Daniels
Laboratory Manager
Lionville Laboratory Incorporated

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z/r/02
Date

The results presented in this report relate only to the analytical testing and conditions of the samples at receipt and during storage. All pages of this report are integral parts of the analytical data.



GLOSSARY OF ODRO DATA

DATA QUALIFIERS

U = Indicates that the compound was analyzed for but not detected. The minimum detection limit for the sample (not the method detection limit) is reported with the U (e.g., 10U).

J = Indicates an estimated value. This flag is used in cases where a target analyte is detected at a level less than the lower quantification level. If the limit of quantification is 10 ug/L and a concentration of 3 ug/L is calculated, it is reported as 3J.

B = This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination.

E = Indicates that the compound was detected beyond the calibration range and was subsequently analyzed at a dilution.

I = Interference.

ABBREVIATIONS

BS = Indicates blank spike in which reagent grade water is spiked with the CLP matrix spiking solutions and carried through all the steps in the method. Spike recoveries are reported.

BSD = Indicates blank spike duplicate.

MS = Indicates matrix spike.

MSD = Indicates matrix spike duplicate.

DL = Indicates that recoveries were not obtained because the extract had to be diluted for analysis.

NA = Not Applicable.

DF = Dilution Factor.

NR = Not Required.

SP = Indicates Spiked Compound.



GLOSSARY OF ODRO DATA

P = This flag is used for an OLCSC target analyte when there is greater than 25% difference for detected concentrations between the two GC columns (see Form X). The lower of the two values is reported on Form I and flagged with a "P".

D = This flag identifies all compounds identified in an analysis at a secondary dilution factor.

C = This flag applies to a compound that has been confirmed by HPLC.

ODRO DATA SUMMARY / SAMPLE QC

RFW Batch Number: 02011053

Client: BECHTEL NEVADA V1400

Work Order: 60052001001 Page: 1

Report Date: 02/01/02 10:24

	Cust ID: 272501-01	272501-02	272501-03	272501-04	272501-05	BLK
Sample Information	RFW#: 001	002	003	004	005	02LE0091-MB1
Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
D.F.:	1.00	1.00	1.00	1.00	1.00	1.00
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg

p-Terphenyl	99	%	119	%	114	%	95	%	102	%	115	%
Diesel Range Organics	36		12.4	U	14		12.6	U	17		12.0	U
Motor Oil	18		12.4	U	14		12.6	U	18		12.0	U

Cust ID: BLK 88	BLK 89
-----------------	--------

Sample Information	RFW#: 02LE0091-MB1	02LE0091-MB1
Matrix:	SOIL	SOIL
D.F.:	1.00	1.00
Units:	mg/kg	mg/kg

p-Terphenyl	105	%	115	%	-----	-----	-----	-----	-----	-----	-----	-----
Diesel Range Organics	68	%	75	%	-----	-----	-----	-----	-----	-----	-----	-----
Motor Oil	NS		NS		-----	-----	-----	-----	-----	-----	-----	-----

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not reported. NS= Not spiked.
 %= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. * = Outside of EPA CLP QC

JK L-1-02
 ~1/02

/s/ Signature on file

SAMPLE DATA FOR EACH SAMPLE

ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Lab Name: Lionville Labs, Inc. Work Order: 60052001001

272501-01

Client: BECHTEL NEVADA V1408Matrix: SOIL Lab Sample ID: 02011853-001Sample wt/vol: 25.2 (g/mL) G Lab File ID: BLKOOPPBLevel: (low/med) LOW Date Received: 01/25/02% Moisture: not dec. 6 Date Analyzed: 01/31/02Column: (pack/cap) CAP Dilution Factor: 1.00

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) mg/kg

68334-30-5-----Diesel Range Organics	36	
00-00-0000-----Motor Oil	18	

12/88 Rev.

JK 2/1/02
/s/ Signature on file

ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Lab Name: Lionville Labs, Inc. Work Order: 60052001001

272501-02

Client: BECHTEL NEVADA V1408Matrix: SOILLab Sample ID: 02011853-002Sample wt/vol: 25.3 (g/mL) GLab File ID: BLKOOPPBLevel: (low/med) LOWDate Received: 01/25/02t Moisture: not dec. 5Date Analyzed: 01/31/02Column: (pack/cap) CAPDilution Factor: 1.00

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) ug/kg

<u>68334-30-5-----Diesel Range Organics</u>	<u>12.4</u>	<u>U</u>
<u>00-00-0000-----Motor Oil</u>	<u>12.4</u>	<u>U</u>

/s/ Signature on file

12/88 Rev.

JK 2/10/02

ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Lab Name: Lionville Labs, Inc. Work Order: 60052001001272501-03Client: BECHTEL NEVADA V1408Matrix: SOILLab Sample ID: 0201L853-003Sample wt/vol: 25.1 (g/mL) GLab File ID: BLKOOPPBLevel: (low/med) LOWDate Received: 01/25/02% Moisture: not dec. 6Date Analyzed: 01/31/02Column: (pack/cap) CAPDilution Factor: 1.00

CONCENTRATION UNITS:

(ug/L or ug/Kg) mg/kg

<u>68334-30-5-----Diesel Range Organics</u>	<u>14</u>	
<u>00-00-0000-----Motor Oil</u>	<u>14</u>	

12/88 Rev.

/s/ Signature on file

✓ 2/10/02

ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Lab Name: Lionville Labs, Inc. Work Order: 60052001001272501-04Client: BECHTEL NEVADA V1408Matrix: SOIL Lab Sample ID: 0201L853-004Sample wt/vol: 25.2 (g/mL) G Lab File ID: BLKOOPPBLevel: (low/med) LOW Date Received: 01/25/02% Moisture: not dec. 6 Date Analyzed: 01/31/02Column: (pack/cap) CAP Dilution Factor: 1.00

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) mg/kg

68334-30-5-----Diesel Range Organics	12.6	U
00-00-0000-----Motor Oil	12.6	U

12/88 Rev.

U 2102
~1/2
/s/ Signature on file

ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Lab Name: Lionville Labs, Inc. Work Order: 60052001001

272501-05

Client: BECHTEL NEVADA V1408Matrix: SOILLab Sample ID: 0201L853-005Sample wt/vol: 25.5 (g/mL) GLab File ID: BLKOOPPBLevel: (low/med) LOWDate Received: 01/25/02* Moisture: not dec. 7Date Analyzed: 01/31/02Column: (pack/cap) CAPDilution Factor: 1.00

CONCENTRATION UNITS:

(ug/L or ug/Kg) mg/kg

CAS NO.	COMPOUND		
68334-30-5-----	Diesel Range Organics	17	
00-00-0000-----	Motor Oil	18	

/s/ Signature on file

12/88 Rev.

u 2/42

CASE NARRATIVE



Analytical Report

Client : BECHTEL NEVADA V1408
LVL# : 0201L853

W.O #: 60052-001-001-0001-00
Date Received: 01-25-02

GASOLINE RANGE ORGANICS

The set of samples consisted of five (5) soil samples collected on 1-23-02

The samples and their associated QC samples were analyzed according to criteria set forth in Lionville Laboratory OPs based on Method 8015B for Gasoline Range Organic (GRO) target compounds on 02-06-02.

1. All results presented in this report are derived from samples that met LVLI's sample acceptance policy with the exception of cooler temperature, which has been recorded on the chain of custody.
2. All surrogate recoveries were within acceptance criteria.
3. All blank spike recoveries were within acceptance criteria.
4. All initial calibrations associated with this data set were within acceptance criteria.
5. Due to the sample matrix, a medium level dilution was performed.

/s/ Iain Daniels

Iain Daniels
Laboratory Manager
Lionville Laboratory Incorporated

2/12/02
Date

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The results presented in this report relate only to the analytical testing and conditions of the samples at receipt and during storage. All pages of this report are integral parts of the analytical data.



GLOSSARY OF OGRO DATA

DATA QUALIFIERS

U = Indicates that the compound was analyzed for but not detected. The minimum detection limit for the sample (not the method detection limit) is reported with the U (e.g., 10U).

J = Indicates an estimated value. This flag is used in cases where a target analyte is detected at a level less than the lower quantification level. If the limit of quantification is 10 ug/L and a concentration of 3 ug/L is calculated, it is reported as 3J.

B = This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination.

E = Indicates that the compound was detected beyond the calibration range and was subsequently analyzed at a dilution.

I = Interference.

ABBREVIATIONS

BS = Indicates blank spike in which reagent grade water is spiked with the CLP matrix spiking solutions and carried through all the steps in the method. Spike recoveries are reported.

BSD = Indicates blank spike duplicate.

MS = Indicates matrix spike.

MSD = Indicates matrix spike duplicate.

DL = Indicates that recoveries were not obtained because the extract had to be diluted for analysis.

NA = Not Applicable.

DF = Dilution Factor.

NR = Not Required.

SP = Indicates Spiked Compound.



GLOSSARY OF OGRO DATA

P = This flag is used for an OGRO target analyte when there is greater than 25% difference for detected concentrations between the two GC columns (see Form X). The lower of the two values is reported on Form I and flagged with a "P".

D = This flag identifies all compounds identified in an analysis at a secondary dilution factor.

C = This flag applies to a compound that has been confirmed by HPLC.

OGRO DATA SUMMARY / SAMPLE QC

Li full hy,
GAS RANGE ORGANICS

Report Date: 02/08/02 14:53

RFW Batch Number: 0201L853

Client: BECHTEL NEVADA V1408

Work Order: 60052001001 Page: 1

Cust ID: 272501-01 272501-02 272501-03 272501-04 272501-05 272501-05

Sample Information	RFW#:	001	002	003	004	005	005 REP
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	D.F.:	1.00	1.00	1.00	1.00	1.00	1.00
	Units:	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
	Level:	MED	MED	MED	MED	MED	MED

Fluorobenzene	77 %	78 %	80 %	84 %	84 %	78 %
Gasoline Range Organics (GRO)	3200 U	3200 U	3100 U	3000 U	3300 U	3300 U

Cust ID: TBLKCI TBLKCI BS TBLKCI BSD

Sample Information	RFW#:	02LVJ206-MB1	02LVJ206-MB1	02LVJ206-MB1
	Matrix:	SOIL	SOIL	SOIL
	D.F.:	1.00	1.00	1.00
	Units:	UG/KG	UG/KG	UG/KG
	Level:	MED	MED	MED

Fluorobenzene	89 %	91 %	95 %			
Gasoline Range Organics (GRO)	3000 U	94 %	90 %			

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not reported. NS= Not spiked.
 %= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. * = Outside of EPA CLP QC


 /s/ Signature on file

SAMPLE DATA FOR EACH SAMPLE

GC VOLATILES SHEET

CLIENT SAMPLE NO.

Lab Name: Lionville Labs, Inc. Work Order: 60052001001

272501-01

Client: BECHTEL NEVADA V1408Matrix: SOILLab Sample ID: 0201L853-001Sample wt/vol: 9.84 (g/mL) GLab File ID: BLK00PPBLevel: (low/med) MEDDate Received: 01/25/02% Moisture: not dec. 6Date Analyzed: 02/06/02Column: (pack/cap) CAPDilution Factor: 1.00

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG

86290-81-5-----	Gasoline Range Organics (GRO)	3200	U
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/s/ Signature on file

12/88 Rev.

GC VOLATILES SHEET

CLIENT SAMPLE NO.

Lab Name: Lionville Labs, Inc. Work Order: 60052001001

272501-02

Client: BECHTEL NEVADA V1408Matrix: SOIL Lab Sample ID: 02011853-002Sample wt/vol: 9.92 (g/mL) G Lab File ID: BLKOOPPBLevel: (low/med) MED Date Received: 01/25/02Moisture: not dec. 5 Date Analyzed: 02/06/02Column: (pack/cap) CAP Dilution Factor: 1.00

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG

<u>86290-81-5-----</u>	<u>Gasoline Range Organics (GRO)</u>	<u>3200</u>	<u>U</u>
------------------------	--------------------------------------	-------------	----------

/s/ Signature on file

12/88 Rev.

GC VOLATILES SHEET

CLIENT SAMPLE NO.

Lab Name: Lionville Labs, Inc. Work Order: 60052001001

272501-03

Client: BECHTEL NEVADA V1408Matrix: SOILLab Sample ID: 0201L853-003Sample wt/vol: 10.4 (g/mL) GLab File ID: BLKOOPPBLevel: (low/med) MEDDate Received: 01/25/02% Moisture: not dec. 6Date Analyzed: 02/06/02Column: (pack/cap) CAPDilution Factor: 1.00

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

<u>86290-81-5-----</u>	<u>Gasoline Range Organics (GRO)</u>	<u>3100</u>	<u>U</u>
------------------------	--------------------------------------	-------------	----------

/s/ Signature on file

12/88 Rev.

GC VOLATILES SHEET

CLIENT SAMPLE NO.

Lab Name: Lionville Labs, Inc. Work Order: 60052001001272501-04Client: BECHTEL NEVADA V1408Matrix: SOILLab Sample ID: 0201L853-004Sample wt/vol: 10.6 (g/mL) GLab File ID: BLKOOPPBLevel: (low/med) MEDDate Received: 01/25/02† Moisture: not dec. 6Date Analyzed: 02/06/02Column: (pack/cap) CAPDilution Factor: 1.00

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

<u>86290-81-5-----Gasoline Range Organics (GRO)</u>	<u>3000</u>	<u>U</u>
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/s/ Signature on file

12/88 Rev.

GC VOLATILES SHEET

CLIENT SAMPLE NO.

Lab Name: Lionville Labs, Inc. Work Order: 60052001001

272501-05

Client: BECHTEL NEVADA V1408Matrix: SOIL Lab Sample ID: 0201L853-005Sample wt/vol: 9.89 (g/mL) G Lab File ID: BLKOOPPBLevel: (low/med) MED Date Received: 01/25/02% Moisture: not dec. 7 Date Analyzed: 02/06/02Column: (pack/cap) CAP Dilution Factor: 1.00

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG

86290-81-5-----	Gasoline Range Organics (GRO)	3300	U
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/s/ Signature on file

12/88 Rev.

GC VOLATILES SHEET

CLIENT SAMPLE NO.

Lab Name: Lionville Labs, Inc. Work Order: 60052001001272501-05REPClient: BECHTEL NEVADA V1408Matrix: SOILLab Sample ID: 0201LB53-005 REPSample wt/vol: 9.67 (g/mL) GLab File ID: BLKOOPPBLevel: (low/med) MEDDate Received: 01/25/02* Moisture: not dec. 7Date Analyzed: 02/06/02Column: (pack/cap) CAPDilution Factor: 1.00

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG

<u>86290-81-5</u> -----Gasoline Range Organics (GRO)	<u>3300</u>	<u>U</u>
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12/88 Rev.

/s/ Signature on file

CASE NARRATIVE



Analytical Report

Client: BECHTEL NEVADA V1408
LVL#: 0201L853

W.O.#: 60052-001-001-0001-00
Date Received: 01-25-02

PCB

The set of samples consisted of five (5) soil samples collected on 01-23-02.

The samples and their associated QC samples were extracted on 01-29-02, 02-06-02, and analyzed according to Lionville Laboratory OPs based on SW846, 3rd Edition procedures on 02-09,10,12-02. The extraction procedure was based on method 3540 and the extracts were analyzed based on method 8082 for Aroclors only.

The following is a summary of the QC results accompanying the sample results and a description of any problems encountered during their analyses:

1. All results presented in this report are derived from samples that met LVLI's sample acceptance policy with the exception of cooler temperature, which has been recorded on the chain of custody.
2. All required holding times for extraction and analysis have been met.
3. The samples and their associated QC samples received a sulfuric acid cleanup.
4. All method blanks were below the reporting limits for all target compounds.
5. All obtainable surrogate recoveries were within acceptance criteria.
6. All blank spike recoveries were within acceptance criteria.
7. Most samples required instrument dilutions due to the high concentrations of target analytes. Reporting limits have been adjusted to reflect the necessary dilutions.
8. All initial calibrations associated with this data set were within acceptance criteria.
9. All continuing calibration standards analyzed prior to sample extracts were within acceptance criteria.
10. All continuing calibration standards analyzed prior to sample extracts were within acceptance criteria.

/s/ Signature on file

Iain Daniels /
Laboratory Manager
Lionville Laboratory Incorporated
pefr\group\data\pest\01L-853.pcb

2/14/02
Date

The results presented in this report relate only to the analytical testing and conditions of the samples at receipt and during storage. All pages of this report are integral parts of the analytical data.



GLOSSARY OF PESTICIDE/PCB DATA

DATA QUALIFIERS

U = Indicates that the compound was analyzed for but not detected. The minimum detection limit for the sample (not the method detection limit) is reported with the U (e.g., 10U).

J = Indicates an estimated value. This flag is used in cases where a target analyte is detected at a level less than the lower quantification level. If the limit of quantification is 10 ug/L and a concentration of 3 ug/L is calculated, it is reported as 3J.

B = This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination.

E = Indicates that the compound was detected beyond the calibration range and was subsequently analyzed at a dilution.

I = Interference.

ABBREVIATIONS

BS = Indicates blank spike in which reagent grade water is spiked with the CLP matrix spiking solutions and carried through all the steps in the method. Spike recoveries are reported.

BSD = Indicates blank spike duplicate.

MS = Indicates matrix spike.

MSD = Indicates matrix spike duplicate.

DL = Indicates that recoveries were not obtained because the extract had to be diluted for analysis.

NA = Not Applicable.

DF = Dilution Factor.

NR = Not Required.

SP = Indicates Spiked Compound.



GLOSSARY OF PESTICIDE/PCB DATA

P = This flag is used for an PESTICIDE/PCB target analyte when there is greater than 25% difference for detected concentrations between the two GC columns (see Form X). The lower of the two values is reported on Form 1 and flagged with a "P".

D = This flag identifies all compounds identified in an analysis at a secondary dilution factor.

C = This flag applies to a compound that has been confirmed by GC/MS.

DATA SUMMARY / SAMPLE QC

RFW Batch Number: 0201L853

Client: BECHTEL NEVADA V1408

PCBs by GC

Report Date: 02/13/02 15:13

Work Order: 60052001001 Page: 1

Cust ID: 272501-01 272501-02 272501-03 272501-04 272501-05 PBLKGH

Sample Information	RFW#:	001	002	003	004	005	02LE0092-MB1
Matrix:	SOIL						
D.F.:	100	5.00	1.00	1.00	5.00	1.00	
Units:	UG/KG						

Surrogate:	Tetrachloro-m-xylene	D	%	D	%	95	%	98	%	D	%	95	%
	Decachlorobiphenyl	D	%	D	%	97	%	103	%	D	%	101	%
Aroclor-1016		3500	U	170	U	35	U	35	U	180	U	33	U
Aroclor-1221		7000	U	340	U	71	U	71	U	360	U	67	U
Aroclor-1232		3500	U	170	U	35	U	35	U	180	U	33	U
Aroclor-1242		3500	U	170	U	35	U	35	U	180	U	33	U
Aroclor-1248		7900		710		42		78		540		33	U
Aroclor-1254		3500	U	170	U	35	U	35	U	180	U	33	U
Aroclor-1260		3500	U	170	U	35	U	35	U	180	U	33	U

Cust ID:	PBLKGH BS	PBLKGH BSD	PBLKGO	PBLKGO BS	PBLKGO BSD
Sample Information	RFW#:	02LE0092-MB1	02LE0092-MB1	02LE0136-MB1	02LE0136-MB1
Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL
D.F.:	1.00	1.00	1.00	1.00	1.00
Units:	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG

Surrogate:	Tetrachloro-m-xylene	100	%	75	%	90	%	90	%	92	%
	Decachlorobiphenyl	104	%	78	%	93	%	92	%	93	%
Aroclor-1016		33	U	33	U	33	U	33	U	33	U
Aroclor-1221		67	U	67	U	67	U	67	U	67	U
Aroclor-1232		33	U	33	U	33	U	33	U	33	U
Aroclor-1242		33	U	33	U	33	U	33	U	33	U
Aroclor-1248		33	U	33	U	33	U	33	U	33	U
Aroclor-1254		79	%	61	%	33	U	83	%	82	%
Aroclor-1260		33	U	33	U	33	U	33	U	33	U

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not reported. NS= Not spiked.
 %= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

/s/ Signature on file

SAMPLE DATA FOR EACH SAMPLE

ID
PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

272501-01

Lab Name: Lionville Labs, Inc. Work Order: 60052001001Client: BECHTEL NEVADA V1408Matrix: SOIL Lab Sample ID: 02011853-001Sample wt/vol: 30.1 (g/ml) G Lab File ID: 02110235.15Level: (low/med) LOW Date Received: 01/25/02† Moisture: not dec. 6 dec. Date Extracted: 01/29/02Extraction: (SepF/Cont/Sonc) N/A Date Analyzed: 02/12/02GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 100CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

12674-11-2-----Aroclor-1016	3500	U
11104-28-2-----Aroclor-1221	7000	U
11141-16-5-----Aroclor-1232	3500	U
53469-21-9-----Aroclor-1242	3500	U
12672-29-6-----Aroclor-1248	7900	
11097-69-1-----Aroclor-1254	3500	U
11096-82-5-----Aroclor-1260	3500	U

John S.
/s/ Signature on file

FORM 1 PEST

12/88 Rev.

ID
PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

272501-02

Lab Name: Lionville Labs, Inc. Work Order: 60052001001Client: BECHTEL NEVADA V1408Matrix: SOIL Lab Sample ID: 0201L853-002Sample wt/vol: 30.6 (g/mL) G Lab File ID: 02110235.16Level: (low/med) LOW Date Received: 01/25/02% Moisture: not dec. 5 dec. Date Extracted: 01/29/02Extraction: (SepF/Cont/Sonc) N/A Date Analyzed: 02/12/02GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 5.00

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG

12674-11-2-----Aroclor-1016	170	U
11104-28-2-----Aroclor-1221	340	U
11141-16-5-----Aroclor-1232	170	U
53469-21-9-----Aroclor-1242	170	U
12672-29-6-----Aroclor-1248	710	
11097-69-1-----Aroclor-1254	170	U
11096-82-5-----Aroclor-1260	170	U

/s/ Signature on file

FORM 1 PEST

12/88 Rev.

1D
PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Lab Name: Lionville Labs, Inc. Work Order: 60052001001272501-03Client: BECHTEL NEVADA V1408Matrix: SOIL Lab Sample ID: 0201L853-003Sample wt/vol: 30.0 (g/mL) G Lab File ID: 02080235.30Level: (low/med) LOW Date Received: 01/25/02% Moisture: not dec. 6 dec. Date Extracted: 02/06/02Extraction: (SepF/Cont/Sonc) N/A Date Analyzed: 02/09/02GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

12674-11-2-----Aroclor-1016	35	U
11104-28-2-----Aroclor-1221	71	U
11141-16-5-----Aroclor-1232	35	U
53469-21-9-----Aroclor-1242	35	U
12672-29-6-----Aroclor-1248	42	U
11097-69-1-----Aroclor-1254	35	U
11096-82-5-----Aroclor-1260	35	U


/s/ Signature on file

FORM 1 PEST

12/88 Rev.

ID
PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

272501-04

Lab Name: Lionville Labs, Inc. Work Order: 60052001001Client: BECHTEL NEVADA V1408Matrix: SOIL Lab Sample ID: 0201L853-004Sample wt/vol: 30.0 (g/mL) G Lab File ID: 02080235.31Level: (low/med) LOW Date Received: 01/25/02% Moisture: not dec. 6 dec. Date Extracted: 01/29/02Extraction: (SepF/Cont/Sonc) N/A Date Analyzed: 02/09/02GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG

12674-11-2-----Aroclor-1016	35	U
11104-28-2-----Aroclor-1221	71	U
11141-16-5-----Aroclor-1232	35	U
53469-21-9-----Aroclor-1242	35	U
12672-29-6-----Aroclor-1248	78	
11097-69-1-----Aroclor-1254	35	U
11096-82-5-----Aroclor-1260	35	U

/s/ Signature on file

FORM 1 PEST

12/88 Rev.

ID
PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

272501-05

Lab Name: Lionville Labs, Inc. Work Order: 60052001001Client: BECHTEL NEVADA V1408Matrix: SOIL Lab Sample ID: 0201L853-005Sample wt/vol: 30.2 (g/mL) G Lab File ID: 02110235.17Level: (low/med) LOW Date Received: 01/25/02% Moisture: not dec. 7 dec. Date Extracted: 01/29/02Extraction: (SepF/Cont/Sonc) N/A Date Analyzed: 02/12/02GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 5.00CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

12674-11-2-----Aroclor-1016	180	U
11104-28-2-----Aroclor-1221	360	U
11141-16-5-----Aroclor-1232	180	U
53469-21-9-----Aroclor-1242	180	U
12672-29-6-----Aroclor-1248	540	U
11097-69-1-----Aroclor-1254	180	U
11096-82-5-----Aroclor-1260	180	U

/s/ Signature on file

FORM 1 PEST

12/88 Rev.

TIER I REVIEW

GENERAL INFORMATION

1. Project Name and/or Sample Delivery Group (SDG): V1408
2. Date Samples taken: 1/23/02 CAU 326

3. Date of Review: 6/20/02

4. Chain of Custody (COC):

Completed? Yes No Legible? Yes No

5. Is a cover letter/case narrative attached? Yes No

If 'yes,' has it been reviewed for significant problems? Yes No NA

Comments: Cooler arrived too warm. No other problems reported.

6. Analyses requested (Attach COC, Sample Request Form, and lab data packet to this review):

Total VOCs Total BNA Total Metals Radionuclides
 TCLP VOCs TCLP BNA TCLP Metals TPH etc
 PCBs Other:

7. Were all requested analyses performed on all samples? Yes No

8. Temperature on cooler: 7.5°C (parameters: 4°C ±2°) or NA

10. Refer to Table 1. Was the proper preservation used? Yes No NA

If 'no,' then explain:

POLYCHLORINATED BIPHENYLS (PCB)

PARAMETER	EXTRACTION HOLD TIME	ANALYSIS HOLD TIME	DAYS HELD	PASS Y/N	SAMPLES NOT PASSING
PCB Compounds EPA Method 8082	Liquids - 7 days Soils - 14 days Oil - 14 days	NA	6 to 14	✓	-
PCB Compounds EPA Method 8082	NA	Liquids - 40 days Soils - 40 days Oil - 40 days	3 to 14	✓	-
Comments:					

Were digestions done within the hold time limit? Yes No

Were analyses run within the hold time limit? Yes No

A. PCB reported as: mg/L or ug/L (liquids) ug/kg (solids) Other:

B. Hits above detection level found in LB, RBS, FB, RB, or other QA samples? Yes No
If 'yes,' explain:

C. Did laboratory report indicate any problems? Yes No

If 'yes,' explain:

TOTAL PETROLEUM HYDROCARBONS (TPH)

PARAMETER	EXTRACTION HOLD TIME	ANALYSIS HOLD TIME	DAYS HELD	PASS Y/N	SAMPLES NOT PASSING
Total TPH EPA Method 8015M or 8015B	Liquids - 14 days Soils - 14 days Oil - 14 days	NA	6 2	Y	-
Total TPH EPA Method 8015M or 8015B	NA	Liquids - 40 days Soils - 40 days Oil - 40 days	2	Y	-
Comments:					

Was TPH digestion done within the hold time limit? Yes No

Were analyses run within the hold time limit? Yes No

A. TPH reported as: mg/Kg or ug/Kg Other:

B. Hits above detection level found in LB, RBS, FB, RB, or other QA samples? Yes No
If 'yes,' explain:

C. Did laboratory report indicate any problems? Yes No
If 'yes,' explain:

SUMMARY

Laboratory log-in report check for completeness and errors Yes No

Are all field forms are present and complete? Yes No

Does the report forms inventory include all CLP or CLP-like forms? Yes No

Are the reporting levels at the appropriate level? Yes No

If 'no,' list the exceptions below:

SAMPLE ID	PARAMETER/ ANALYSIS	REPORTING LEVELS	ACTUAL LEVEL	COMMENTS

Was the sample count/type consistent with the COC? Yes No

Were the results reported for both the field and laboratory QC samples? Yes No

Is the analysis count/type consistent with the COC? Yes No

Was the correct sample matrix used for each sample? Yes No

Certificates of Analysis (COAs) checked for completeness? Yes No N/A

Condition-upon-receipt variance form included? Yes No N/A

Did the deliverable meet the overall objectives of the project? Yes No

Are all signatures in place? On COC? Yes No On Data pkg.? Yes No

Explanation for any problems:

SUMMARY (cont.)

18. Overall Comments:

19. Reviewed by:

Kraig Knapp

20. Task Manager or TPO

Date: _____ Signature _____

6/20/02 _____ /s/ Kraig Knapp _____

Date: _____ Signature _____

SAMPLE DELIVERY GROUP

V1503

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NEL LABORATORIES

Reno • Las Vegas
Phoenix • Burbank

Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, NV 89030
(702) 657-1010 • Fax: (702) 657-1577
1-888-368-3282

Ted Redding
Bechtel Nevada
P.O. Box 98521, M/S NTS273
Las Vegas, NV 89193-8521

TEL: 702-2957220

RE Project: V1503

Order No.: L0203380

Dear Ted Redding:

NEL Laboratories, Las Vegas received 9 samples on 3/27/02 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications unless noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

/s/ Signature on file

Stan Van Wagenen
Laboratory Manager *for SNV*

4/5/02

Date

Certifications:	Reno	Las Vegas
Arizona	AZ0520	AZ0518
California	1707	2002
Idaho	Certified	Certified
Montana	Certified	Certified
Nevada	NV033	NV052
New Mexico	Certified	Certified
US Army Corps of Engineers		Certified

CLIENT: Bechtel Nevada
PROJECT ID: V1503
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 272501-V01
DATE SAMPLED: 3/26/02
NEL SAMPLE ID: L0203380-001A

Parameter	Reporting							
	Result	Unit	Limit	DF	Method	Prep Date	Analyzed	Analyst
Aroclor 1016	ND	µg/Kg	20	1	SW8082	03/29/02	04/02/02	JRW-LV
Aroclor 1221	ND	µg/Kg	20	1	SW8082	03/29/02	04/02/02	JRW-LV
Aroclor 1232	ND	µg/Kg	20	1	SW8082	03/29/02	04/02/02	JRW-LV
Aroclor 1242	ND	µg/Kg	20	1	SW8082	03/29/02	04/02/02	JRW-LV
Aroclor 1248	250	µg/Kg	20	1	SW8082	03/29/02	04/02/02	JRW-LV
Aroclor 1254	ND	µg/Kg	20	1	SW8082	03/29/02	04/02/02	JRW-LV
Aroclor 1260	ND	µg/Kg	20	1	SW8082	03/29/02	04/02/02	JRW-LV
Surr: Tetrachloro-m-xylene	79.5	%REC	48-136	1	SW8082	03/29/02	04/02/02	JRW-LV
Surr: Decachlorobiphenyl	76.0	%REC	45-149	1	SW8082	03/29/02	04/02/02	JRW-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

Date: 05-Apr-02

Page 1 of 9

CLIENT: Bechtel Nevada
PROJECT ID: V1503
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 272501-V02
DATE SAMPLED: 3/26/02
NEL SAMPLE ID: L0203380-002A

Parameter	Reporting							
	Result	Unit	Limit	DF	Method	Prep Date	Analyzed	Analyst
Aroclor 1016	ND	µg/Kg	20	1	SW8082	03/29/02	04/02/02	JRW-LV
Aroclor 1221	ND	µg/Kg	20	1	SW8082	03/29/02	04/02/02	JRW-LV
Aroclor 1232	ND	µg/Kg	20	1	SW8082	03/29/02	04/02/02	JRW-LV
Aroclor 1242	ND	µg/Kg	20	1	SW8082	03/29/02	04/02/02	JRW-LV
Aroclor 1248	230	µg/Kg	20	1	SW8082	03/29/02	04/02/02	JRW-LV
Aroclor 1254	ND	µg/Kg	20	1	SW8082	03/29/02	04/02/02	JRW-LV
Aroclor 1260	ND	µg/Kg	20	1	SW8082	03/29/02	04/02/02	JRW-LV
Surr: Tetrachloro-m-xylene	82.0	%REC	48-136	1	SW8082	03/29/02	04/02/02	JRW-LV
Surr: Decachlorobiphenyl	89.0	%REC	45-149	1	SW8082	03/29/02	04/02/02	JRW-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 05-Apr-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

Page 2 of 9

CLIENT: Bechtel Nevada
PROJECT ID: V1503
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 272501-V03
DATE SAMPLED: 3/26/02
NEL SAMPLE ID: L0203380-003A

Parameter	Result	Unit	Reporting		DF	Method	Prep Date	Analyzed	Analyst
			Limit						
Aroclor 1016	ND	µg/Kg	400	20	SW8082	03/29/02	04/02/02	JRW-LV	
Aroclor 1221	ND	µg/Kg	400	20	SW8082	03/29/02	04/02/02	JRW-LV	
Aroclor 1232	ND	µg/Kg	400	20	SW8082	03/29/02	04/02/02	JRW-LV	
Aroclor 1242	ND	µg/Kg	400	20	SW8082	03/29/02	04/02/02	JRW-LV	
Aroclor 1248	33000	µg/Kg	400	20	SW8082	03/29/02	04/02/02	JRW-LV	
Aroclor 1254	ND	µg/Kg	400	20	SW8082	03/29/02	04/02/02	JRW-LV	
Aroclor 1260	ND	µg/Kg	400	20	SW8082	03/29/02	04/02/02	JRW-LV	
Surr: Tetrachloro-m-xylene	150	%REC	S	48-136	20	SW8082	03/29/02	04/02/02	JRW-LV
Surr: Decachlorobiphenyl	260	%REC	S	45-149	20	SW8082	03/29/02	04/02/02	JRW-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 05-Apr-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

Page 3 of 9

CLIENT: Bechtel Nevada
PROJECT ID: V1503
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 272501-V04
DATE SAMPLED: 3/26/02
NEL SAMPLE ID: L0203380-004A

Parameter	Reporting							
	Result	Unit	Limit	DF	Method	Prep Date	Analyzed	Analyst
Aroclor 1016	ND	µg/Kg	20	1	SW8082	03/29/02	04/02/02	JRW-LV
Aroclor 1221	ND	µg/Kg	20	1	SW8082	03/29/02	04/02/02	JRW-LV
Aroclor 1232	ND	µg/Kg	20	1	SW8082	03/29/02	04/02/02	JRW-LV
Aroclor 1242	ND	µg/Kg	20	1	SW8082	03/29/02	04/02/02	JRW-LV
Aroclor 1248	350	µg/Kg	20	1	SW8082	03/29/02	04/02/02	JRW-LV
Aroclor 1254	ND	µg/Kg	20	1	SW8082	03/29/02	04/02/02	JRW-LV
Aroclor 1260	ND	µg/Kg	20	1	SW8082	03/29/02	04/02/02	JRW-LV
Surr: Tetrachloro-m-xylene	71.5	%REC	48-136	1	SW8082	03/29/02	04/02/02	JRW-LV
Surr: Decachlorobiphenyl	75.5	%REC	45-149	1	SW8082	03/29/02	04/02/02	JRW-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 05-Apr-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

Page 4 of 9

CLIENT: Bechtel Nevada
PROJECT ID: V1503
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 272501-V05
DATE SAMPLED: 3/26/02
NEL SAMPLE ID: L0203380-005A

Parameter	Reporting							
	Result	Unit	Limit	DF	Method	Prep Date	Analyzed	Analyst
Aroclor 1016	ND	µg/Kg	20	1	SW8082	03/29/02	04/02/02	JRW-LV
Aroclor 1221	ND	µg/Kg	20	1	SW8082	03/29/02	04/02/02	JRW-LV
Aroclor 1232	ND	µg/Kg	20	1	SW8082	03/29/02	04/02/02	JRW-LV
Aroclor 1242	ND	µg/Kg	20	1	SW8082	03/29/02	04/02/02	JRW-LV
Aroclor 1248	ND	µg/Kg	20	1	SW8082	03/29/02	04/02/02	JRW-LV
Aroclor 1254	ND	µg/Kg	20	1	SW8082	03/29/02	04/02/02	JRW-LV
Aroclor 1260	ND	µg/Kg	20	1	SW8082	03/29/02	04/02/02	JRW-LV
Surr: Tetrachloro-m-xylene	80.0	%REC	48-136	1	SW8082	03/29/02	04/02/02	JRW-LV
Surr: Decachlorobiphenyl	83.5	%REC	45-149	1	SW8082	03/29/02	04/02/02	JRW-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 05-Apr-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

Page 5 of 9

CLIENT: Bechtel Nevada
PROJECT ID: V1503
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 272501-V06
DATE SAMPLED: 3/26/02
NEL SAMPLE ID: L0203380-006A

Parameter	Result	Unit	Reporting		Method	Prep Date	Analyzed	Analyst
			Limit	DF				
Aroclor 1016	ND	µg/Kg	200	10	SW8082	03/29/02	04/02/02	JRW-LV
Aroclor 1221	ND	µg/Kg	200	10	SW8082	03/29/02	04/02/02	JRW-LV
Aroclor 1232	ND	µg/Kg	200	10	SW8082	03/29/02	04/02/02	JRW-LV
Aroclor 1242	ND	µg/Kg	200	10	SW8082	03/29/02	04/02/02	JRW-LV
Aroclor 1248	5800	µg/Kg	200	10	SW8082	03/29/02	04/02/02	JRW-LV
Aroclor 1254	ND	µg/Kg	200	10	SW8082	03/29/02	04/02/02	JRW-LV
Aroclor 1260	ND	µg/Kg	200	10	SW8082	03/29/02	04/02/02	JRW-LV
Surr: Tetrachloro-m-xylene	95.0	%REC	48-136	10	SW8082	03/29/02	04/02/02	JRW-LV
Surr: Decachlorobiphenyl	105	%REC	45-149	10	SW8082	03/29/02	04/02/02	JRW-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 05-Apr-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

Page 6 of 9

CLIENT: Bechtel Nevada
PROJECT ID: V1503
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 272501-V07
DATE SAMPLED: 3/26/02
NEL SAMPLE ID: L0203380-007A

Parameter	Result	Unit	Reporting		Method	Prep Date	Analyzed	Analyst
			Limit	DF				
Aroclor 1016	ND	µg/Kg	20	1	SW8082	03/29/02	04/02/02	JRW-LV
Aroclor 1221	ND	µg/Kg	20	1	SW8082	03/29/02	04/02/02	JRW-LV
Aroclor 1232	ND	µg/Kg	20	1	SW8082	03/29/02	04/02/02	JRW-LV
Aroclor 1242	ND	µg/Kg	20	1	SW8082	03/29/02	04/02/02	JRW-LV
Aroclor 1248	430	µg/Kg	20	1	SW8082	03/29/02	04/02/02	JRW-LV
Aroclor 1254	ND	µg/Kg	20	1	SW8082	03/29/02	04/02/02	JRW-LV
Aroclor 1260	ND	µg/Kg	20	1	SW8082	03/29/02	04/02/02	JRW-LV
Surr: Tetrachloro-m-xylene	86.0	%REC	48-136	1	SW8082	03/29/02	04/02/02	JRW-LV
Surr: Decachlorobiphenyl	90.5	%REC	45-149	1	SW8082	03/29/02	04/02/02	JRW-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 05-Apr-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

Page 7 of 9

CLIENT: Bechtel Nevada
PROJECT ID: V1503
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 272501-V09
DATE SAMPLED: 3/26/02
NEL SAMPLE ID: L0203380-008A

Parameter	Reporting								
	Result	Unit	Limit	DF	Method	Prep Date	Analyzed	Analyst	
Aroclor 1016	ND	µg/Kg	200	10	SW8082	03/29/02	04/02/02	JRW-LV	
Aroclor 1221	ND	µg/Kg	200	10	SW8082	03/29/02	04/02/02	JRW-LV	
Aroclor 1232	ND	µg/Kg	200	10	SW8082	03/29/02	04/02/02	JRW-LV	
Aroclor 1242	ND	µg/Kg	200	10	SW8082	03/29/02	04/02/02	JRW-LV	
Aroclor 1248	18000	µg/Kg	B	200	10	SW8082	03/29/02	04/02/02	JRW-LV
Aroclor 1254	ND	µg/Kg	200	10	SW8082	03/29/02	04/02/02	JRW-LV	
Aroclor 1260	ND	µg/Kg	200	10	SW8082	03/29/02	04/02/02	JRW-LV	
Surr: Tetrachloro-m-xylene	75.0	%REC	48-136	10	SW8082	03/29/02	04/02/02	JRW-LV	
Surr: Decachlorobiphenyl	120	%REC	45-149	10	SW8082	03/29/02	04/02/02	JRW-LV	

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 05-Apr-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

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CLIENT: Bechtel Nevada
PROJECT ID: V1503
PROJECT #: 30033
MATRIX: AQUEOUS

CLIENT ID: 272501-V08
DATE SAMPLED: 3/26/02
NEL SAMPLE ID: L0203380-009A

Parameter			Reporting		DF	Method	Prep Date	Analyzed	Analyst
	Result	Unit	Limit						
Aroclor 1016	ND	µg/L	1.0	1	SW8082	04/01/02	04/04/02	JRW-LV	
Aroclor 1221	ND	µg/L	1.0	1	SW8082	04/01/02	04/04/02	JRW-LV	
Aroclor 1232	ND	µg/L	1.0	1	SW8082	04/01/02	04/04/02	JRW-LV	
Aroclor 1242	ND	µg/L	1.0	1	SW8082	04/01/02	04/04/02	JRW-LV	
Aroclor 1248	ND	µg/L	1.0	1	SW8082	04/01/02	04/04/02	JRW-LV	
Aroclor 1254	ND	µg/L	1.0	1	SW8082	04/01/02	04/04/02	JRW-LV	
Aroclor 1260	ND	µg/L	1.0	1	SW8082	04/01/02	04/04/02	JRW-LV	
Surr: Tetrachloro-m-xylene	121	%REC	45-130	1	SW8082	04/01/02	04/04/02	JRW-LV	
Surr: Decachlorobiphenyl	118	%REC	31-130	1	SW8082	04/01/02	04/04/02	JRW-LV	

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 05-Apr-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

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NEL LABORATORIES



CLIENT: Bechtel Nevada
Work Order: L0203380
Project: V1503

ANALYTICAL QC SUMMARY REPORT

8082_s Test Method: SW8082

Sample ID: MB-214	SampType: MBLK	TestCode: 8082_s	Units: $\mu\text{g}/\text{Kg}$	Prep Date: 3/29/02	Run ID: L_ECD-1_020402B						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	20									
Aroclor 1221	ND	20									
Aroclor 1232	ND	20									
Aroclor 1242	ND	20									
Aroclor 1248	ND	20									
Aroclor 1254	ND	20									
Aroclor 1260	ND	20									
Sum: Tetrachloro-m-xylene	54.28	0.10	66.63	0	81.5	48	136	0	0		
Sum: Decachlorobiphenyl	54.61	0.10	66.63	0	82	45	149	0	0		

Sample ID: LCS-214	SampType: LCS	TestCode: 8082_s	Units: $\mu\text{g}/\text{Kg}$	Prep Date: 3/29/02	Run ID: L_ECD-1_020402B						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	280.7	20	333.4	0	84.2	60	140	0	0		
Aroclor 1260	227	20	333.4	0	68.1	60	140	0	0		
Sum: Tetrachloro-m-xylene	59.41	0.10	66.79	0	89	48	136	0	0		
Sum: Decachlorobiphenyl	53.07	0.10	66.79	0	79.5	45	149	0	0		

Sample ID: LCSD-214	SampType: LCSD	TestCode: 8082_S	Units: $\mu\text{g}/\text{Kg}$	Prep Date: 3/29/02	Run ID: L_ECD-1_020402B						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	261.9	20	332.9	0	78.7	60	140	280.7	6.93	25	

Qualifiers: ND - Not Detected at the Reporting Limit C - Unspiked sample >5 times the amount spiked B - Analyte detected in the associated Method Blank
 JI - MS or MSD outside acceptance limits. LCS acceptable. R - RPD outside accepted recovery limits
 J - This concentration is considered an estimate due to LCS failure.

Page 1 of 3

Date: 05-Apr-02

CLIENT: Bechtel Nevada
Work Order: L0203380
Project: V1503

ANALYTICAL QC SUMMARY REPORT

8082

Test Method: SW8087

Sample ID: LCSD-214	SampType: LCSD	TestCode: 8082_S	Units: µg/Kg	Prep Date: 3/29/02	Run ID: L_ECD-I_020402B
	Batch ID: 214	TestNo: SW8082		Analysis Date: 4/2/02	SeqNo: 13781
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Aroclor 1260	227.9	20	332.9	0	68.5
Sum: Tetrachloro-m-xylene	57.65	0.10	66.68	0	86.5
Sum: Decachlorobiphenyl	52.32	0.10	66.68	0	78.5
				LowLimit	HighLimit
				227	140
				0	60
				0	48
				0	136
				0	45
				0	149
				0	0
				0	0
				0.420	28
				0	0
				0	0

Qualifiers: ND - Not Detected at the Reporting Limit C - Unspiked sample >5 times the amount spiked B - Analyte detected in the associated Method Blank
 JI - MS or MSD outside acceptance limits. LCS acceptable. R - RPD outside accepted recovery limits
 J - This concentration is considered an estimate due to LCS failure.

CLIENT: Bechtel Nevada
Work Order: L0203380
Project: V1503

ANALYTICAL QC SUMMARY REPORT

8082_w Test Method: SW8082

Sample ID: MB-218	SampType: MBLK	TestCode: 8082_w		Units: $\mu\text{g/L}$	Prep Date: 4/1/02	Run ID: L_ECD-1_020404B					
	Batch ID: 218	TestNo: SW8082			Analysis Date: 4/4/02	SeqNo: 14338					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	1.0									
Aroclor 1221	ND	1.0									
Aroclor 1232	ND	1.0									
Aroclor 1242	ND	1.0									
Aroclor 1248	ND	1.0									
Aroclor 1254	ND	1.0									
Aroclor 1260	ND	1.0									
Surrogate: Tetrachloro-m-xylene	1.47	0.010	2	0	73.5	45	130	0	0		
Surrogate: Decachlorobiphenyl	1.54	0.010	2	0	77	31	130	0	0		
Sample ID: LCS-218	SampType: LCS	TestCode: 8082_w		Units: $\mu\text{g/L}$	Prep Date: 4/1/02	Run ID: L_ECD-1_020404B					
	Batch ID: 218	TestNo: SW8082			Analysis Date: 4/4/02	SeqNo: 14337					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	9.55	1.0	10	0	95.5	60	140	0	0		
Aroclor 1260	9.54	1.0	10	0	95.4	60	140	0	0		
Surrogate: Tetrachloro-m-xylene	1.94	0.010	2	0	97	45	130	0	0		
Surrogate: Decachlorobiphenyl	1.05	0.010	2	0	52.5	31	130	0	0		
Sample ID: LCSD-218	SampType: LCSD	TestCode: 8082_W		Units: $\mu\text{g/L}$	Prep Date: 4/1/02	Run ID: L_ECD-1_020404B					
	Batch ID: 218	TestNo: SW8082			Analysis Date: 4/4/02	SeqNo: 14339					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	7.36	1.0	10	0	73.6	60	140	9.55	25.9	25	R
Aroclor 1260	7.5	1.0	10	0	75	60	140	9.54	23.9	25	
Surrogate: Tetrachloro-m-xylene	1.04	0.010	2	0	52	45	130	0	0		
Surrogate: Decachlorobiphenyl	1.7	0.010	2	0	85	31	130	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit

C - Unspiked sample >5 times the amount spiked

B - Analyte detected in the associated Method Blank

JL - MS or MSD outside acceptance limits. LCS acceptable.

R - RPD outside accepted recovery limits

Page 3 of 3

J - This concentration is considered an estimate due to LCS failure.

Date: 05-Apr-02

714

40403380

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2024-03-23 09:30:00

/s/ Signature on file

ANALYTICAL SERVICES LABORATORY
SERVICES REQUEST & CHAIN OF CUSTODY RECORDPage 2 of 2

PROJECT/ CLIENT INFORMATION		REPORT INFORMATION				SAMPLE INFORMATION		
Project: CAU326	BN Org#: A435	Send Report to: Mike Kueze				Sampling Site: CAU326 Area 27		
Charge No: 5409 B223	ASL Prog:	Phone: 702-295-7396	Fax: 702-295-7761	M/S: NTS 306	The samples submitted contain (check): <input type="checkbox"/> Hazardous <input type="checkbox"/> Radioactive <input checked="" type="checkbox"/> Unknown contamination. If known, attach a brief narrative summary identifying contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.			
Project Manager: Je FF S.m.4h		Turnaround: <input checked="" type="checkbox"/> Standard - 30 days Non-rad, 60 Days Rad, Other: _____ <input type="checkbox"/> Rush Preliminary by: _____ Final by: _____						
Phone: 295-7772	Fax: 295-7761	M/S: NTS 306	Final report format: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> NTS-WAC <input type="checkbox"/> Other: _____					
LAB USE ONLY		ANALYSES & METHOD						SAMPLE RECEIPT INFORMATION
Rad SDG:	Non-Rad SDG:	V1503						Are all sample containers received intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Comments: _____
Rad Packet:	Non-Rad Packet:							Do the labels agree with this form? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Comments: _____
Client Services Representative: _____								Was a Material Clearance Tag submitted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Comments: _____
Will these analyses be performed under a signed SOW? <input type="checkbox"/> YES <input type="checkbox"/> NO If so, do analyses entered here agree with the SOW? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A If not, identify the variation _____								COMMENTS (Preservative, size/volume, MS/MSD, special analysis, rad matrix code, count time, etc.) 1 - L glass bottle 1 - 125ml glass bottle 1L Samples free of Rad
CSR initials indicating review and approval: _____ Date: _____								28 JKT 7/26 4
ITEM	ID / DESCRIPTION	SAMPLING DATE	MATRIX	PCB 8082 PAY-1784-3-1				
0	272501-V08	1/26/01 14:14	1.gard	X				1-L glass bottle
1	272501-V08	1/26/01 14:14	1.gard	X				1 - 125ml glass bottle 1L
2								Samples free of Rad
3								
4								
5								
6								
7								
8								
9								
Transfer of samples submitted for analyses				Complete for samples shipped to an OFF-SITE Subcontract Laboratory				
Sampled/Relinquished (Signature/Organization)		DATE / TIME	Received by (Signature/Organization)	Relinquished (BN Representative Signature)		DATE / TIME	Received (Courier & Tracking Info)	
/s/ Signature on file		3/27/01 17:47	/s/ Signature on file	/s/ Signature on file		3/27/01 17:47	/s/ Signature on file	
				Relinquished (Courier & Tracking Info.)		DATE / TIME	Received (1st tier Subcontractor Rep)	
				Relinquished (1st tier Subcontractor Rep)		DATE / TIME	Received (2nd tier Subcontractor Rep)	

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SAMPLE DELIVERY GROUP

V1624

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NEL LABORATORIES



Corporate Headquarters /
Reno Laboratory
4750 Longley Lane, Suite 106
Reno, NV 89502
Phone: 775.348.2522
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Las Vegas Laboratory
4208 Arcata Way, Suite A
Las Vegas, NV 89030
Phone: 702.657.1010
Fax: 702.657.1577

Ted Redding
Bechtel Nevada
P.O. Box 98521, M/S NTS273
Las Vegas, NV 89193-8521
TEL: 702-295-7220

RE Project: V1624

Order No.: L0206245

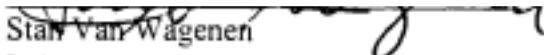
Dear Ted Redding:

NEL Laboratories, Las Vegas received 11 samples on 6/17/02 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications unless noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

/s/ Signature on file


Stan Van Wagenen
Laboratory Manager


Date

Certifications:	Reno	Las Vegas
Arizona	AZ0520	AZ0518
California	1707	2002
Idaho	Certified	Certified
Montana	Certified	Certified
Nevada	NV033	NV052
New Mexico	Certified	Certified

NEL LABORATORIES

CLIENT: Bechtel Nevada
 PROJECT ID: V1624
 PROJECT #: 30033
 MATRIX: SOLID

CLIENT ID: CAU326-V15
 DATE SAMPLED: 6/11/02
 NEL SAMPLE ID: L0206245-001A

Parameter	Reporting							
	Result	Unit	Limit	DF	Method	Prep Date	Analyzed	Analyst
Aroclor 1016	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1221	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1232	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1242	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1248	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1254	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1260	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Surr: Decachlorobiphenyl	67.0	%REC	45-149	1	SW8082	06/20/02	06/21/02	JRW-LV
Surr: Tetrachloro-m-xylene	71.0	%REC	48-136	1	SW8082	06/20/02	06/21/02	JRW-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 26-Jun-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

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NEL LABORATORIES

CLIENT: Bechtel Nevada
 PROJECT ID: V1624
 PROJECT #: 30033
 MATRIX: SOLID

CLIENT ID: CAU326-V16
 DATE SAMPLED: 6/11/02
 NEL SAMPLE ID: L0206245-002A

Parameter	Reporting							
	Result	Unit	Limit	DF	Method	Prep Date	Analyzed	Analyst
Aroclor 1016	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1221	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1232	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1242	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1248	190	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1254	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1260	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Surr: Decachlorobiphenyl	91.5	%REC	45-149	1	SW8082	06/20/02	06/21/02	JRW-LV
Surr: Tetrachloro-m-xylene	82.5	%REC	48-136	1	SW8082	06/20/02	06/21/02	JRW-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 26-Jun-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

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NEL LABORATORIES

CLIENT: Bechtel Nevada
 PROJECT ID: V1624
 PROJECT #: 30033
 MATRIX: SOLID

CLIENT ID: CAU326-V17
 DATE SAMPLED: 6/12/02
 NEL SAMPLE ID: L0206245-003A

Parameter	Reporting							
	Result	Unit	Limit	DF	Method	Prep Date	Analyzed	Analyst
Aroclor 1016	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1221	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1232	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1242	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1248	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1254	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1260	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Surr: Decachlorobiphenyl	93.5	%REC	45-149	1	SW8082	06/20/02	06/21/02	JRW-LV
Surr: Tetrachloro-m-xylene	87.5	%REC	48-136	1	SW8082	06/20/02	06/21/02	JRW-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 26-Jun-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

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NEL LABORATORIES

CLIENT: Bechtel Nevada **CLIENT ID:** CAU326-V18
PROJECT ID: V1624 **DATE SAMPLED:** 6/12/02
PROJECT #: 30033 **NEL SAMPLE ID:** L0206245-004A
MATRIX: SOLID

Parameter	Reporting							
	Result	Unit	Limit	DF	Method	Prep Date	Analyzed	Analyst
Aroclor 1016	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1221	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1232	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1242	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1248	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1254	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1260	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Surr: Decachlorobiphenyl	99.5	%REC	45-149	1	SW8082	06/20/02	06/21/02	JRW-LV
Surr: Tetrachloro-m-xylene	93.0	%REC	48-136	1	SW8082	06/20/02	06/21/02	JRW-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 26-Jun-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

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NEL LABORATORIES

CLIENT: Bechtel Nevada
 PROJECT ID: V1624
 PROJECT #: 30033
 MATRIX: SOLID

CLIENT ID: CAU326-V19
 DATE SAMPLED: 6/12/02
 NEL SAMPLE ID: L0206245-005A

Parameter	Reporting							
	Result	Unit	Limit	DF	Method	Prep Date	Analyzed	Analyst
Aroclor 1016	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1221	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1232	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1242	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1248	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1254	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1260	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Surr: Decachlorobiphenyl	95.5	%REC	45-149	1	SW8082	06/20/02	06/21/02	JRW-LV
Surr: Tetrachloro-m-xylene	86.5	%REC	48-136	1	SW8082	06/20/02	06/21/02	JRW-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

Date: 26-Jun-02

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1624
PROJECT #: 30033
MATRIX: SOLID

CLIENT ID: CAU326-V25
DATE SAMPLED: 6/12/02
NEL SAMPLE ID: L0206245-006A

Parameter	Reporting						Analyst	
	Result	Unit	Limit	DF	Method	Prep Date		
Aroclor 1016	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1221	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1232	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1242	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1248	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1254	50	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1260	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Surr: Decachlorobiphenyl	89.5	%REC	45-149	1	SW8082	06/20/02	06/21/02	JRW-LV
Surr: Tetrachloro-m-xylene	84.0	%REC	48-136	1	SW8082	06/20/02	06/21/02	JRW-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 26-Jun-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1624
PROJECT #: 30033
MATRIX: SOLID

CLIENT ID: CAU326-V21
DATE SAMPLED: 6/13/02
NEL SAMPLE ID: L0206245-007A

Parameter	Reporting							
	Result	Unit	Limit	DF	Method	Prep Date	Analyzed	Analyst
Aroclor 1016	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1221	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1232	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1242	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1248	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1254	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1260	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Surr: Decachlorobiphenyl	81.5	%REC	45-149	1	SW8082	06/20/02	06/21/02	JRW-LV
Surr: Tetrachloro-m-xylene	92.5	%REC	48-136	1	SW8082	06/20/02	06/21/02	JRW-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

Date: 26-Jun-02

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NEL LABORATORIES

CLIENT: Bechtel Nevada
 PROJECT ID: V1624
 PROJECT #: 30033
 MATRIX: SOLID

CLIENT ID: CAU326-V22
 DATE SAMPLED: 6-13/02
 NEL SAMPLE ID: L0206245-008A

Parameter	Reporting						Analyst	
	Result	Unit	Limit	DF	Method	Prep Date		
Aroclor 1016	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1221	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1232	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1242	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1248	250	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1254	120	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1260	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Surr: Decachlorobiphenyl	91.0	%REC	45-149	1	SW8082	06/20/02	06/21/02	JRW-LV
Surr: Tetrachloro-m-xylene	83.0	%REC	48-136	1	SW8082	06/20/02	06/21/02	JRW-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 26-Jun-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

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NEL LABORATORIES

CLIENT: Bechtel Nevada
 PROJECT ID: V1624
 PROJECT #: 30033
 MATRIX: SOLID

CLIENT ID: CAU326-V23
 DATE SAMPLED: 6/13/02
 NEL SAMPLE ID: L0206245-009A

Parameter	Reporting							
	Result	Unit	Limit	DF	Method	Prep Date	Analyzed	Analyst
Aroclor 1016	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1221	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1232	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1242	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1248	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1254	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1260	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Surr: Decachlorobiphenyl	100	%REC	45-149	1	SW8082	06/20/02	06/21/02	JRW-LV
Surr: Tetrachloro-m-xylene	94.5	%REC	48-136	1	SW8082	06/20/02	06/21/02	JRW-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 26-Jun-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

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NEL LABORATORIES

CLIENT: Bechtel Nevada
 PROJECT ID: V1624
 PROJECT #: 30033
 MATRIX: SOLID

CLIENT ID: CAU326-V24
 DATE SAMPLED: 6/13/02
 NEL SAMPLE ID: L0206245-010A

Parameter	Reporting							
	Result	Unit	Limit	DF	Method	Prep Date	Analyzed	Analyst
Aroclor 1016	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1221	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1232	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1242	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1248	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1254	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1260	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Surr: Decachlorobiphenyl	94.0	%REC	45-149	1	SW8082	06/20/02	06/21/02	JRW-LV
Surr: Tetrachloro-m-xylene	88.0	%REC	48-136	1	SW8082	06/20/02	06/21/02	JRW-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 26-Jun-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1624
PROJECT #: 30033
MATRIX: SOLID

CLIENT ID: CAU326-V26
DATE SAMPLED: 6/13/02
NEL SAMPLE ID: L0206245-011A

Parameter	Reporting							
	Result	Unit	Limit	DF	Method	Prep Date	Analyzed	Analyst
Aroclor 1016	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1221	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1232	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1242	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1248	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1254	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Aroclor 1260	ND	µg/Kg	20	1	SW8082	06/20/02	06/21/02	JRW-LV
Surr: Decachlorobiphenyl	72.5	%REC	45-149	1	SW8082	06/20/02	06/21/02	JRW-LV
Surr: Tetrachloro-m-xylene	81.5	%REC	48-136	1	SW8082	06/20/02	06/21/02	JRW-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 26-Jun-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

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CLIENT: Bechtel Nevada
Work Order: L0206245
Project: V1624

ANALYTICAL QC SUMMARY REPORT

BatchID: 494

Sample ID: 020620PCBS-MB	SampType: MBLK	TestCode: 8082_S	Units: $\mu\text{g/Kg}$	Prep Date: 6/20/02	Run ID: L_ECD-1_020621A			
	Batch ID: 494	TestNo: SW8082		Analysis Date: 6/21/02	SeqNo: 40761			
Analyte								
Aroclor 1016	Result	PQL	SPK value	SPK Ref Val	%REC			
Aroclor 1016	ND	20						
Aroclor 1221	ND	20						
Aroclor 1232	ND	20						
Aroclor 1242	ND	20						
Aroclor 1248	ND	20						
Aroclor 1254	ND	20						
Aroclor 1260	ND	20						
Sur: Tetrachloro-m-xylene	67	0.10	66.74	0	100			
Sur: Decachlorobiphenyl	68.67	0.10	66.74	0	103			
				48	136	0	0	
					45	149	0	0
Sample ID: 020620PCBS-LCS	SampType: LCS	TestCode: 8082_S	Units: $\mu\text{g/Kg}$	Prep Date: 6/20/02	Run ID: L_ECD-1_020621A			
	Batch ID: 494	TestNo: SW8082		Analysis Date: 6/21/02	SeqNo: 40762			
Analyte								
Aroclor 1016	Result	PQL	SPK value	SPK Ref Val	%REC			
Aroclor 1016	370.5	20	333.1	0	111			
Aroclor 1260	370.1	20	333.1	0	111			
Sur: Tetrachloro-m-xylene	72.36	0.10	66.72	0	108			
Sur: Decachlorobiphenyl	77.69	0.10	66.72	0	116			
				60	140	0	0	
					60	140	0	0
				48	136	0	0	
					45	149	0	0
Sample ID: L0206245-010AMS	SampType: MS	TestCode: 8082_S	Units: $\mu\text{g/Kg}$	Prep Date: 6/20/02	Run ID: L_ECD-1_020621A			
	Batch ID: 494	TestNo: SW8082		Analysis Date: 6/21/02	SeqNo: 40774			
Analyte								
Aroclor 1016	Result	PQL	SPK value	SPK Ref Val	%REC			
Aroclor 1016	348.9	20	333.2	0	105			
Aroclor 1260	335.2	20	333.2	0	101			
Sur: Tetrachloro-m-xylene	68.71	0.10	66.74	0	103			
Sur: Decachlorobiphenyl	71.71	0.10	66.74	0	107			
				60	140	0	0	
					60	140	0	0
				48	136	0	0	
					45	149	0	0

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Bechtel Nevada
Work Order: L0206245
Project: V1624

ANALYTICAL QC SUMMARY REPORT

BatchID: 494

Sample ID: L0206245-010AMSD	SampType: MSD	TestCode: 8082_S	Units: µg/Kg	Prep Date: 6/20/02	Run ID: L_ECD-1_020621A						
	Batch ID: 494	TestNo: SW8082		Analysis Date: 6/21/02	SeqNo: 40775						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDI limit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

PROJECT/CLIENT INFORMATION		REPORT & TURNAROUND INFORMATION				SAMPLE INFORMATION	
Project: CAU 326	BN Org#: A435	Send Report to: Mike Krueze				Sampling Site: CAU 326 Acc. 27	
Charge Number: 5-H09DZ23		Phone: 295-7396	Fax: 295-7261	M/S: NTS 306		The samples submitted contain (check):	
Project Manager: Jeff Smith		Turnaround: 30 Standard - 14 days HI, 28 days Non-rad Env, 45 days Rad Env	() RUSH Preliminary by: (IH)				<input checked="" type="checkbox"/> Hazardous - (list) PCB (<1ppm)
Phone:	Fax:		— 1 — 2 — 7 — 14 (non-Rad Env)	() Radioactive			
		M/S: NTS 306	— 1 — 7 — 14 — 28 (Radiological Env)	() Unknown contamination. If known, identify contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.			

SAMPLE MANAGEMENT INFORMATION

SDG: (IH) V1624 (Non-Rad Env) (Rad Env)
 Samples submitted are associated with a signed Project SOW. YES NO

Analyses entered here agree with the SOW. YES NO N/A

If not, identify the variation: 16124

Subcontract Lab(s) used for this work: NEL

8.1 Pay Item, Analysis, Method							

ID/DESCRIPTION	SAMPLING DATE	TIME	MATRIX	CONTAINER #	QC Est. Vol	MD	MS	MSD	Pres - Analysis eg. HCl - VOCs	PCB 8083
1 CAU 326 - V15	6/11/02	11:50	Soil	1	250mL				NA - PCBs	X
2 CAU 326 - V16	6/11/02	11:52	Soil						NA - PCBs	X
3 CAU 326 - V17	6/12/02	14:40	Soil						NA - PCBs	X
4 CAU 326 - V18	6/12/02	14:47	Soil						NA - PCBs	X
5 CAU 326 - V19	6/12/02	14:53	Soil						NA - PCBs	X
6 CAU 326 - V20	6/12/02	11:55	Soil						NA - PCBs	X
7 CAU 326 - V21	6/13/02	7:31	Soil						NA - PCBs	X
8 CAU 326 - V22	6/13/02	7:31	Soil						NA - PCBs	X
9 CAU 326 - V23	6/13/02	7:39	Soil						NA - PCBs	X
10 CAU 326 - V24	6/13/02	8:05	Soil	↓	↓				NA - PCBs	X

CUSTODY TRANSFER

Sampled/Relinquished (print)	Signature	DATE / TIME	Received by (print)	Signature	DATE / TIME
Kraig Krueze	/s/ Signature on file	6/13/02 - 1424	CASTANEDA	/s/ Signature on file	6/13/02 1424
CA CASTANEDA	/s/ Signature on file	6/17/02 1300	BN COURIER		6/17/02 1300
COLLECTOR	ER		Darryn Crockett	/s/ Signature on file	6/17/02 1745

LU204245

Bechtel Nevada
**ANALYTICAL LABORATORY
SERVICES REQUEST & CHAIN OF CUSTODY RECORD**
Page 2 of 2

PROJECT/CLIENT INFORMATION			REPORT & TURNAROUND INFORMATION						SAMPLE INFORMATION			
Project: CAU326 BN Org #: A435 Charge Number: 54098223 Project Manager: Jeff Smith			Send Report to: Mike Riccius Phone: 7396 Fax: 7761 M/S: NTJ 306 Turnaround: <input checked="" type="checkbox"/> Standard - 14 days IH, 28 days Non-rad Env, 45 Days Rad Env, <input type="checkbox"/> Rush Preliminary by: _____ (IH) <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 7 <input type="checkbox"/> 14 (non-Rad Env) <input type="checkbox"/> 1 <input type="checkbox"/> 7 <input type="checkbox"/> 14 <input type="checkbox"/> 28 (Radiological Env)						Sampling Site: CAU326 A27 The samples submitted contain (check): <input checked="" type="checkbox"/> Hazardous (list) - PCB (L1,2,3) <input type="checkbox"/> Radioactive (list) - _____ <input type="checkbox"/> Unknown contamination. If known, identify contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.			
Phone: _____ Fax: _____ M/S: _____												
SAMPLE MANAGEMENT INFORMATION									8.1 Pay Item, Analysis, Method			
SDG: 116.24 (IH) (Non-Rad Env) (Rad Env) Samples submitted are associated with a signed Project SOW <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Analyses entered here agree with the SOW <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A If not, Identify the variation: _____ Subcontract Lab(s) used for this work: NER									X 116.24 PCB			
ID/DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	CONTAINER #	QC Est. Vol	MD	MS	MSD	Pres - Analysis eg. HCl - VOCs			
CAU326 - V26	6/13/04	8:09	soil	1	250ml				NA - PCB	X		
LAST ITEM												
CUSTODY TRANSFER		Signature		Date/Time		Received by (print)			Signature		Date/Time	
Sampled/Relinquished (print)		/s/ Signature on file /s/ Signature on file		6/13/04 1424		CD CASTANEDA			/s/ Signature on file 		6/13/04 1424	
Kraig Knapp CD CASTANEDA				6/17/04 1300		BN COLICIER					6/17/04 1300	

SAMPLE DELIVERY GROUP

V1429

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NEL LABORATORIES

Reno • Las Vegas
Phoenix • Boise

Las Vegas Division

4208 Arcata Way, Suite A • Las Vegas, Nevada 89030
702-657-1010 • Fax: 702-657-1577
1-888-368-3282

Ted Redding
Bechtel Nevada
P.O. Box 98521, M/S NTS273
Las Vegas, NV 89193-8521

TEL: 702-2957220

RE Project: V1429

Order No.: L0202135

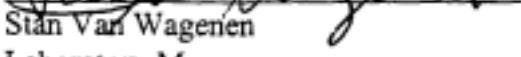
Dear Ted Redding:

NEL Laboratories, Las Vegas received 8 samples on 2/13/02 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

/s/ Signature on file


Stan Van Wagenen
Laboratory Manager

2/27/02
Date

Certifications:	Reno	Las Vegas
Arizona	AZ0520	AZ0518
California	1707	2002
Idaho	Certified	Certified
Montana	Certified	Certified
Nevada	NV033	NV052
New Mexico	Certified	Certified
US Army Corps of Engineers		Certified

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1429
PROJECT #: 30033
MATERIAL: SOIL

CLIENT ID: 062501-01
DATE SAMPLED: 2/11/02
NEL SAMPLE ID: L0202135-001A

Parameter	Result	Units	Reporting		DF	Method	Prep Date	Analyzed	Analyst
			Limit	DF					
Diesel Range Organics (12-C22)	10	mg/Kg	10	1	SW8015	02/15/02	02/20/02	PXC-LV	
Oil Range Organics (C22-C34)	51	mg/Kg	20	1	SW8015	02/15/02	02/20/02	PXC-LV	
Total TPH	61	mg/Kg	10	1	SW8015	02/15/02	02/20/02	PXC-LV	
Surr: n-Octacosane	72.1	%REC	55-130	1	SW8015	02/15/02	02/20/02	PXC-LV	

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1429
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 062501-02
DATE SAMPLED: 2/11/02
NEL SAMPLE ID: L0202135-002A

Parameter	Reporting						Prep Date	Analyzed	Analyst
	Result	Units	Limit	DF	Method				
Diesel Range Organics (12-C22)	1200	mg/Kg	10	1	SW8015	02/15/02	02/20/02	PXC-LV	
Oil Range Organics (C22-C34)	650	mg/Kg	20	1	SW8015	02/15/02	02/20/02	PXC-LV	
Total TPH	1800	mg/Kg	10	1	SW8015	02/15/02	02/20/02	PXC-LV	
Surr: n-Octacosane	89.1	%REC	55-130	1	SW8015	02/15/02	02/20/02	PXC-LV	

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1429
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 062501-03
DATE SAMPLED: 2/11/02
NEL SAMPLE ID: L0202135-003A

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	Reporting		<u>Method</u>	<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>				
Diesel Range Organics (12-C22)	800	mg/Kg	10	1	SW8015	02/15/02	02/20/02	PXC-LV
Oil Range Organics (C22-C34)	280	mg/Kg	20	1	SW8015	02/15/02	02/20/02	PXC-LV
Total TPH	1100	mg/Kg	10	1	SW8015	02/15/02	02/20/02	PXC-LV
Surr: n-Octacosane	87.1	%REC	55-130	1	SW8015	02/15/02	02/20/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1429
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 062501-04
DATE SAMPLED: 2/11/02
NEL SAMPLE ID: L0202135-004A

Parameter	Reporting					Prep Date	Analyzed	Analyst
	Result	Units	Limit	DF	Method			
Diesel Range Organics (12-C22)	24	mg/Kg	10	1	SW8015	02/15/02	02/20/02	PXC-LV
Oil Range Organics (C22-C34)	59	mg/Kg	20	1	SW8015	02/15/02	02/20/02	PXC-LV
Total TPH	84	mg/Kg	10	1	SW8015	02/15/02	02/20/02	PXC-LV
Surr: n-Octacosane	82.1	%REC	55-130	1	SW8015	02/15/02	02/20/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 27-Feb-02

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1429
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: Pipeline 2
DATE SAMPLED: 2/11/02
NEL SAMPLE ID: L0202135-005A

Parameter	Reporting								
	Result	Units	Limit	DF	Method	Prep Date	Analyzed	Analyst	
Diesel Range Organics (12-C22)	8900	mg/Kg	100	5	SW8015	02/15/02	02/20/02	PXC-LV	
Oil Range Organics (C22-C34)	2600	mg/Kg	200	5	SW8015	02/15/02	02/20/02	PXC-LV	
Total TPH	11000	mg/Kg	100	5	SW8015	02/15/02	02/20/02	PXC-LV	
Surr: n-Octacosane	110	%REC	55-130	5	SW8015	02/15/02	02/20/02	PXC-LV	

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1429
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 062501-13
DATE SAMPLED: 2/11/02
NEL SAMPLE ID: L0202135-006A

<u>Parameter</u>	<u>Reporting</u>							
	<u>Result</u>	<u>Units</u>	<u>Limit</u>	<u>DF</u>	<u>Method</u>	<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
Diesel Range Organics (12-C22)	1300	mg/Kg	10	1	SW8015	02/15/02	02/20/02	PXC-LV
Oil Range Organics (C22-C34)	230	mg/Kg	20	1	SW8015	02/15/02	02/20/02	PXC-LV
Total TPH	1500	mg/Kg	10	1	SW8015	02/15/02	02/20/02	PXC-LV
Surr: n-Octacosane	85.1	%REC	55-130	1	SW8015	02/15/02	02/20/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 27-Feb-02

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1429
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 062501-13L
DATE SAMPLED: 2/11/02
NEL SAMPLE ID: L0202135-007A

Parameter	Result	Units	Reporting Limit	DF	Method	Prep Date	Analyzed	Analyst
Diesel Range Organics (12-C22)	11	mg/Kg	10	1	SW8015	02/15/02	02/20/02	PXC-LV
Oil Range Organics (C22-C34)	27	mg/Kg	20	1	SW8015	02/15/02	02/20/02	PXC-LV
Total TPH	38	mg/Kg	10	1	SW8015	02/15/02	02/20/02	PXC-LV
Surr: n-Octacosane	95.1	%REC	55-130	1	SW8015	02/15/02	02/20/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1429
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 062501-04 DUP
DATE SAMPLED: 2/11/02
NEL SAMPLE ID: L0202135-008A

Parameter	Reporting							
	Result	Units	Limit	DF	Method	Prep Date	Analyzed	Analyst
Diesel Range Organics (12-C22)	17	mg/Kg	10	1	SW8015	02/15/02	02/20/02	PXC-LV
Oil Range Organics (C22-C34)	38	mg/Kg	20	1	SW8015	02/15/02	02/20/02	PXC-LV
Total TPH	55	mg/Kg	10	1	SW8015	02/15/02	02/20/02	PXC-LV
Surr: n-Octacosane	70.1	%REC	55-130	1	SW8015	02/15/02	02/20/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 27-Feb-02

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CLIENT: Bechtel Nevada
 Work Order: L0202135
 Project: V1429

ANALYTICAL QC SUMMARY REPORT

NEL LABORATORIES

TestCode: 8015ffp_s

Sample ID: MB-98	SampType: MBLK	TestCode: 8015ffp_s		Units: mg/Kg		Prep Date: 2/15/02		Run ID: L_FID-1_020220B				
Client ID: ZZZZZ	Batch ID: 98	TestNo: SW8015M				Analysis Date: 2/20/02		SeqNo: 2250				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (12-C22)		ND	10	0	0	0	0	0	0	0	0	
Surr: n-Octacosane		2.762	0.010	3.324	0	83.1	55	130	0	0	0	
Sample ID: LCS-98	SampType: LCS	TestCode: 8015ffp_s		Units: mg/Kg		Prep Date: 2/15/02		Run ID: L_FID-1_020220B				
Client ID: ZZZZZ	Batch ID: 98	TestNo: SW8015M				Analysis Date: 2/20/02		SeqNo: 2249				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (12-C22)		134.1	10	166.4	0	80.6	54	91	0	0	0	
Surr: n-Octacosane		3.095	0.010	3.324	0	93.1	55	130	0	0	0	
Sample ID: LCSD-98	SampType: LCSD	TestCode: 8015FFP_S		Units: mg/Kg		Prep Date: 2/15/02		Run ID: L_FID-1_020220B				
Client ID: ZZZZZ	Batch ID: 98	TestNo: SW8015M				Analysis Date: 2/20/02		SeqNo: 2269				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (12-C22)		127.2	10	166.4	0	76.4	54	91	134.1	5.27	25	
Surr: n-Octacosane		3.062	0.010	3.324	0	92.1	55	130	0	0	0	
Sample ID: L0202135-001AMS	SampType: MS	TestCode: 8015FFP_S		Units: mg/Kg		Prep Date: 2/15/02		Run ID: L_FID-1_020220B				
Client ID: 062501-01	Batch ID: 98	TestNo: SW8015M				Analysis Date: 2/20/02		SeqNo: 2267				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (12-C22)		141	10	166.4	0	84.7	54	91	0	0	0	
Surr: n-Octacosane		3.028	0.010	3.324	0	91.1	55	130	0	0	0	
Sample ID: L0202135-001AMSD	SampType: MSD	TestCode: 8015FFP_S		Units: mg/Kg		Prep Date: 2/15/02		Run ID: L_FID-1_020220B				
Client ID: 062501-01	Batch ID: 98	TestNo: SW8015M				Analysis Date: 2/20/02		SeqNo: 2268				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (12-C22)		132.9	10	167	0	79.6	54	91	141	5.92	25	

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Bechtel Nevada
Work Order: L0202135
Project: V1429

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015ffp_s

NEL LABORATORIES

Sample ID: L0202135-001AMSD	SampType: MSD	TestCode: 8015FFP_S	Units: mg/Kg	Prep Date: 2/15/02	Run ID: L_FID-1_020220B						
Client ID: 062501-01	Batch ID: 98	TestNo: SW8015M		Analysis Date: 2/20/02	SeqNo: 2268						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surf: n-Octacosane	2.838	0.010	3.336	0	85.1	55	130	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

Distribution: Original - To be retained by laboratory performing final analysis
Copy 1 - To be retained by laboratory performing intermediate analysis
Copy 2 - To be retained by Analytical Services Laboratory
Copy 3 - To be retained by sampler

SAMPLE DELIVERY GROUP

V1432

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NEL LABORATORIES

Reno • Las Vegas
Phoenix • Boise

Las Vegas Division

4208 Arcata Way, Suite A • Las Vegas, Nevada 89030
702-657-1010 • Fax: 702-657-1577
1-888-368-3282

Ted Redding
Bechtel Nevada
P.O. Box 98521, M/S NTS273
Las Vegas, NV 89193-8521

TEL: 702-2957220

RE Project: V1432

Order No.: L0202134

Dear Ted Redding:

NEL Laboratories, Las Vegas received 12 samples on 2/13/02 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

/s/ Signature on file

Stan Van Wagenen
Laboratory Manager

2/27/02

Date

Certifications:	Reno	Las Vegas
Arizona	AZ0520	AZ0518
California	1707	2002
Idaho	Certified	Certified
Montana	Certified	Certified
Nevada	NV033	NV052
New Mexico	Certified	Certified
US Army Corps of Engineers		Certified

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1432
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 062501-22
DATE SAMPLED: 2/12/02
NEL SAMPLE ID: L0202134-001A

<u>Parameter</u>	<u>Reporting</u>						<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
	<u>Result</u>	<u>Units</u>	<u>Limit</u>	<u>DF</u>	<u>Method</u>				
Diesel Range Organics (12-C22)	3000	mg/Kg	10	1	SW8015	02/15/02	02/20/02	PXC-LV	
Oil Range Organics (C22-C34)	ND	mg/Kg	20	1	SW8015	02/15/02	02/20/02	PXC-LV	
Total TPH	3000	mg/Kg	10	1	SW8015	02/15/02	02/20/02	PXC-LV	
Surr: n-Octacosane	81.1	%REC	55-130	1	SW8015	02/15/02	02/20/02	PXC-LV	

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1432
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 062501-23
DATE SAMPLED: 2/12/02
NEL SAMPLE ID: L0202134-003A

<u>Parameter</u>			<u>Reporting</u>	<u>DF</u>	<u>Method</u>	<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
	<u>Result</u>	<u>Units</u>						
Diesel Range Organics (12-C22)	83	mg/Kg	10	1	SW8015	02/15/02	02/20/02	PXC-LV
Oil Range Organics (C22-C34)	140	mg/Kg	20	1	SW8015	02/15/02	02/20/02	PXC-LV
Total TPH	220	mg/Kg	10	1	SW8015	02/15/02	02/20/02	PXC-LV
Surr: n-Octacosane	81.1	%REC	55-130	1	SW8015	02/15/02	02/20/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1432
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 062501-23L
DATE SAMPLED: 2/12/02
NEL SAMPLE ID: L0202134-004A

Parameter	Result	Units	Reporting		DF	Method	Prep Date	Analyzed	Analyst
			Limit	DF					
Diesel Range Organics (B2-C22)	11	mg/Kg	10	1	SW8015	02/15/02	02/20/02	PXC-LV	
Oil Range Organics (C22-C34)	33	mg/Kg	20	1	SW8015	02/15/02	02/20/02	PXC-LV	
Total TPH	44	mg/Kg	10	1	SW8015	02/15/02	02/20/02	PXC-LV	
Surr: n-Octacosane	90.1	%REC	55-130	1	SW8015	02/15/02	02/20/02	PXC-LV	

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1432
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 062501-24
DATE SAMPLED: 2/12/02
NEL SAMPLE ID: L0202134-005A

Parameter	Reporting								
	Result	Units	Limit	DF	Method	Prep Date	Analyzed	Analyst	
Diesel Range Organics (12-C22)	840	mg/Kg	10	1	SW8015	02/15/02	02/20/02	PXC-LV	
Oil Range Organics (C22-C34)	360	mg/Kg	20	1	SW8015	02/15/02	02/20/02	PXC-LV	
Total TPH	1200	mg/Kg	10	1	SW8015	02/15/02	02/20/02	PXC-LV	
Surrogate: n-Octacosane	84.1	%REC	55-130	1	SW8015	02/15/02	02/20/02	PXC-LV	

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1432
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 062501-25
DATE SAMPLED: 2/12/02
NEL SAMPLE ID: L0202134-007A

<u>Parameter</u>			<u>Reporting</u>	<u>DF</u>	<u>Method</u>	<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
	<u>Result</u>	<u>Units</u>						
Diesel Range Organics (12-C22)	9000	mg/Kg	50	5	SW8015	02/15/02	02/20/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	100	5	SW8015	02/15/02	02/20/02	PXC-LV
Total TPH	9000	mg/Kg	50	5	SW8015	02/15/02	02/20/02	PXC-LV
Surr: n-Octacosane	105	%REC	55-130	5	SW8015	02/15/02	02/20/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1432
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 062501-26
DATE SAMPLED: 2/12/02
NEL SAMPLE ID: L0202134-010A

Parameter	Reporting					Prep Date	Analyzed	Analyst
	Result	Units	Limit	DF	Method			
Diesel Range Organics (12-C22)	14	mg/Kg	10	1	SW8015	02/15/02	02/20/02	PXC-LV
Oil Range Organics (C22-C34)	75	mg/Kg	20	1	SW8015	02/15/02	02/20/02	PXC-LV
Total TPH	89	mg/Kg	10	1	SW8015	02/15/02	02/20/02	PXC-LV
Surrogate: n-Octacosane	89.1	%REC	55-130	1	SW8015	02/15/02	02/20/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 27-Feb-02

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1432
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 062501-24 DUP
DATE SAMPLED: 2/12/02
NEL SAMPLE ID: L0202134-012A

<u>Parameter</u>	<u>Reporting</u>							
	<u>Result</u>	<u>Units</u>	<u>Limit</u>	<u>DF</u>	<u>Method</u>	<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
Diesel Range Organics (12-C22)	560	mg/Kg	10	1	SW8015	02/15/02	02/20/02	PXC-LV
Oil Range Organics (C22-C34)	220	mg/Kg	20	1	SW8015	02/15/02	02/20/02	PXC-LV
Total TPH	780	mg/Kg	10	1	SW8015	02/15/02	02/20/02	PXC-LV
Surr: n-Octacosane	77.1	%REC	55-130	1	SW8015	02/15/02	02/20/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

CLIENT: Bechtel Nevada
 Work Order: L0202134
 Project: V1432

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015ffp_s

Sample ID: MB-98	SampType: MBLK	TestCode: 8015ffp_s	Units: mg/Kg	Prep Date: 2/15/02	Run ID: L_FID-1_020220B						
Client ID: ZZZZZ	Batch ID: 98	TestNo: SW8015M		Analysis Date: 2/20/02	SeqNo: 2250						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (12-C22)	ND	10	0	0	0	0	0	0	0	0	
Sum: n-Octacosane	2.762	0.010	3.324	0	83.1	55	130	0	0	0	
Sample ID: LCS-98	SampType: LCS	TestCode: 8015ffp_s	Units: mg/Kg	Prep Date: 2/15/02	Run ID: L_FID-1_020220B						
Client ID: ZZZZZ	Batch ID: 98	TestNo: SW8015M		Analysis Date: 2/20/02	SeqNo: 2249						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (12-C22)	134.1	10	166.4	0	80.6	54	91	0	0	0	
Sum: n-Octacosane	3.095	0.010	3.324	0	93.1	55	130	0	0	0	
Sample ID: LCSD-98	SampType: LCSD	TestCode: 8015FFP_S	Units: mg/Kg	Prep Date: 2/15/02	Run ID: L_FID-1_020220B						
Client ID: ZZZZZ	Batch ID: 98	TestNo: SW8015M		Analysis Date: 2/20/02	SeqNo: 2269						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (12-C22)	127.2	10	166.4	0	76.4	54	91	134.1	5.27	25	
Sum: n-Octacosane	3.062	0.010	3.324	0	92.1	55	130	0	0	0	
Sample ID: L0202135-001AMS	SampType: MS	TestCode: 8015FFP_S	Units: mg/Kg	Prep Date: 2/15/02	Run ID: L_FID-1_020220B						
Client ID: ZZZZZ	Batch ID: 98	TestNo: SW8015M		Analysis Date: 2/20/02	SeqNo: 2267						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (12-C22)	141	10	166.4	0	84.7	54	91	0	0	0	
Sum: n-Octacosane	3.028	0.010	3.324	0	91.1	55	130	0	0	0	
Sample ID: L0202135-001AMSD	SampType: MSD	TestCode: 8015FFP_S	Units: mg/Kg	Prep Date: 2/15/02	Run ID: L_FID-1_020220B						
Client ID: ZZZZZ	Batch ID: 98	TestNo: SW8015M		Analysis Date: 2/20/02	SeqNo: 2268						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (12-C22)	132.9	10	167	0	79.6	54	91	141	5.92	25	

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

CLIENT: Bechtel Nevada
Work Order: L0202134
Project: V1432

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015ffp_s

NEL LABORATORIES

Sample ID: L0202135-001AMSD	SampType: MSD	TestCode: 8015FFP_S	Units: mg/Kg	Prep Date: 2/15/02	Run ID: L_FID-1_020220B						
Client ID: ZZZZZ	Batch ID: 98	TestNo: SW8015M		Analysis Date: 2/20/02	SeqNo: 2268						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDI limit	Qual
Surf: n-Octacosane	2.838	0.010	3.336	0	85.1	55	130	0	0	0	0

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Distribution: Original - To be retained by laboratory performing final analysis
Copy 1 - To be retained by laboratory performing intermediate analysis
Copy 2 - To be retained by Analytical Services Laboratory
Copy 3 - To be retained by sampler

ANALYTICAL SERVICES LABORATORY
SERVICES REQUEST & CHAIN OF CUSTODY RECORD

Page 2 of 2

PROJECT/CLIENT INFORMATION

Project: CAU 326 BN Org#: 2156
Charge No.: 5H09BZ23 ASL Prog.:

Send Report to: Mike Kruze
Phone: 295-7396 Fax: 7761 MIS: NTS 306

SAMPLE INFORMATION

Sampling Site: A6 06-25-01

The samples submitted contain (check):
 Hazardous Radioactive Unknown
 contamination. If known, attach a brief narrative summary identifying contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.

Project Manager: Jayne Johnson

Phone: 295-0573 Fax: 7761 MIS: NTS 306

Turnaround: Standard - 30 days Non-rad, 60 Days Rad, Other: _____
 Rush Preliminary by: _____ Final by: _____

Final report format: () Standard () NTS-WAC () Other: _____

LAB USE ONLY

Rad SGD: Non-Rad SGD: V1432

Rad Packet: Non-Rad Packet:

Client Services Representative:

Will these analyses be performed under a signed SOW? () YES () NO
 If so, do analyses entered here agree with the SOW? () YES () NO () N/A
 If not, identify the variation _____

CSR Initials indicating review and approval: _____ Date: _____

ANALYSES & METHOD

Distribution: Original - To be retained by laboratory performing final analysis
 Copy 1 - To be retained by laboratory performing intermediate analysis
 Copy 2 - To be retained by Analytical Services Laboratory
 Copy 3 - To be retained by sampler

Complete for samples shipped to an OFF-SITE Subcontractor Laboratory

NEL
BN/CO/1/1

Relinquished (BN Representative Signature)

DATE / TIME

Received (Courier & Tracking Info.)

/s/ Signature on file

DATE / TIME

BN/CO/1/1

Relinquished (Courier & Tracking Info.)

DATE / TIME

Received (1st tier Subcontractor Rep)

/s/ CURRY

DATE / TIME

/s/ Signature on file

Relinquished (1st tier Subcontractor Rep)

DATE / TIME

Received (2nd tier Subcontractor Rep)

BH-0732 (02/98)

SAMPLE DELIVERY GROUP

V1535

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NEL LABORATORIES

Reno • Las Vegas
Phoenix • Burbank

Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, NV 89030
(702) 657-1010 • Fax: (702) 657-1577
1-888-368-3282

Ted Redding
Bechtel Nevada
P.O. Box 98521, M/S NTS273
Las Vegas, NV 89193-8521
TEL: 702-2957220

RE Project: V1535

Order No.: L0204298

Dear Ted Redding:

NEL Laboratories, Las Vegas received 8 samples on 4/18/02 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications unless noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

/s/ Signature on file

Stan Van Wagenen
Laboratory Manager

4/29/02
Date

Certifications:	Reno	Las Vegas
Arizona	AZ0520	AZ0518
California	1707	2002
Idaho	Certified	Certified
Montana	Certified	Certified
Nevada	NV033	NV052
New Mexico	Certified	Certified
US Army Corps of Engineers		Certified

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1535
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 062501-S1
DATE SAMPLED: 4/17/02
NEL SAMPLE ID: L0204298-001A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	Reporting					
			<u>Limit</u>	<u>DF</u>	<u>Method</u>	<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	04/22/02	04/24/02	PXC-LV
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	04/22/02	04/24/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	04/22/02	04/24/02	PXC-LV
Total TPH	ND	mg/Kg	10	1	SW8015Ext	04/22/02	04/24/02	PXC-LV
Surr: n-Octacosane	85.1	%REC	55-130	1	SW8015Ext	04/22/02	04/24/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 29-Apr-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

Page 1 of 8

NEL LABORATORIES

CLIENT: Bechtel Nevada
 PROJECT ID: V1535
 PROJECT #: 30033
 MATRIX: SOIL

CLIENT ID: 062501-S4
 DATE SAMPLED: 4/17/02
 NEL SAMPLE ID: L0204298-002A

Parameter	Reporting							
	Result	Unit	Limit	DF	Method	Prep Date	Analyzed	Analyst
Gasoline Range Organics (C8-C12)	280	mg/Kg	50	5	SW8015Ext	04/22/02	04/24/02	PXC-LV
Diesel Range Organics (C12-C22)	4000	mg/Kg	50	5	SW8015Ext	04/22/02	04/24/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	250	5	SW8015Ext	04/22/02	04/24/02	PXC-LV
Total TPH	4300	mg/Kg	50	5	SW8015Ext	04/22/02	04/24/02	PXC-LV
Surrogate: n-Octacosane	0	%REC	D	55-130	5	SW8015Ext	04/22/02	04/24/02

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 29-Apr-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

Page 2 of 8

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1535
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 062501-S6
DATE SAMPLED: 4/17/02
NEL SAMPLE ID: L0204298-003A

Parameter	Result	Unit	Reporting Limit	DF	Method	Prep Date	Analyzed	Analyst
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	04/22/02	04/24/02	PXC-LV
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	04/22/02	04/24/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	04/22/02	04/24/02	PXC-LV
Total TPH	ND	mg/Kg	10	1	SW8015Ext	04/22/02	04/24/02	PXC-LV
Surrogate: n-Octacosane	77.1	%REC	55-130	1	SW8015Ext	04/22/02	04/24/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 29-Apr-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

Page 3 of 8

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1535
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 062501-S5
DATE SAMPLED: 4/17/02
NEL SAMPLE ID: L0204298-004A

<u>Parameter</u>			<u>Reporting Limit</u>	<u>DF</u>	<u>Method</u>	<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
	<u>Result</u>	<u>Unit</u>						
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	04/22/02	04/24/02	PXC-LV
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	04/22/02	04/24/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	04/22/02	04/24/02	PXC-LV
Total TPH	ND	mg/Kg	10	1	SW8015Ext	04/22/02	04/24/02	PXC-LV
Surr: n-Octacosane	84.1	%REC	55-130	1	SW8015Ext	04/22/02	04/24/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 29-Apr-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

Page 4 of 8

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1535
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 062501-S8
DATE SAMPLED: 4/17/02
NEL SAMPLE ID: L0204298-005A

Parameter	Reporting							
	Result	Unit	Limit	DF	Method	Prep Date	Analyzed	Analyst
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	04/22/02	04/24/02	PXC-LV
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	04/22/02	04/24/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	04/22/02	04/24/02	PXC-LV
Total TPH	ND	mg/Kg	10	1	SW8015Ext	04/22/02	04/24/02	PXC-LV
Surr: n-Octacosane	79.1	%REC	55-130	1	SW8015Ext	04/22/02	04/24/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 29-Apr-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1535
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 062501-S11
DATE SAMPLED: 4/17/02
NEL SAMPLE ID: L0204298-006A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting Limit</u>	<u>DF</u>	<u>Method</u>	<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	04/22/02	04/24/02	PXC-LV
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	04/22/02	04/24/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	04/22/02	04/24/02	PXC-LV
Total TPH	ND	mg/Kg	10	1	SW8015Ext	04/22/02	04/24/02	PXC-LV
Surr: n-Octacosane	68.1	%REC	55-130	1	SW8015Ext	04/22/02	04/24/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 29-Apr-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

Page 6 of 8

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1535
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 062501-S7
DATE SAMPLED: 4/17/02
NEL SAMPLE ID: L0204298-007A

Parameter	Result	Unit	Reporting Limit	DF	Method	Prep Date	Analyzed	Analyst
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	04/22/02	04/24/02	PXC-LV
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	04/22/02	04/24/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	04/22/02	04/24/02	PXC-LV
Total TPH	ND	mg/Kg	10	1	SW8015Ext	04/22/02	04/24/02	PXC-LV
Surr: n-Octacosane	59.1	%REC	55-130	1	SW8015Ext	04/22/02	04/24/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 29-Apr-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1535
PROJECT #: 30033
MATRIX: AQUEOUS

CLIENT ID: 062501-S2
DATE SAMPLED: 4/17/02
NEL SAMPLE ID: L0204298-008A

Parameter	Result	Unit	Reporting		Method	Prep Date	Analyzed	Analyst
			Limit	DF				
Gasoline Range Organics (C8-C12)	ND	mg/L	0.50	1	SW8015Ext	04/23/02	04/23/02	PXC-LV
Diesel Range Organics (C12-C22)	ND	mg/L	0.50	1	SW8015Ext	04/23/02	04/23/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/L	0.50	1	SW8015Ext	04/23/02	04/23/02	PXC-LV
Total TPH	ND	mg/L	0.50	1	SW8015Ext	04/23/02	04/23/02	PXC-LV
Surr: n-Octacosane	108	%REC	58-120	1	SW8015Ext	04/23/02	04/23/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 29-Apr-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

Page 8 of 8

NEL LABORATORIES

CLIENT: Bechtel Nevada
Work Order: L0204298
Project: V1535

ANALYTICAL QC SUMMARY REPORT

8015ffp_s

Test Method: SW8015Ext

Sample ID: MB-302	SampType: MBLK	TestCode: 8015ffp_s	Units: mg/Kg	Prep Date: 4/22/02	Run ID: L_FID-1_020424B
	Batch ID: 302	TestNo: SW8015M		Analysis Date: 4/24/02	SeqNo: 21972
Analyte					
Gasoline Range Organics (C8-C12)	ND	10			
Diesel Range Organics (C12-C22)	ND	10			
Oil Range Organics (C22-C34)	ND	50			
Total TPH	ND	10			
Sur: n-Octacosane	3.84	0.010	3.336	0	115 55 130 0 0
Sample ID: LCS-302	SampType: LCS	TestCode: 8015ffp_s	Units: mg/Kg	Prep Date: 4/22/02	Run ID: L_FID-1_020424B
	Batch ID: 302	TestNo: SW8015M		Analysis Date: 4/24/02	SeqNo: 21971
Analyte					
Diesel Range Organics (C12-C22)	117	10	166.5	0	70.2 54 91 0 0
Sur: n-Octacosane	2.098	0.010	3.327	0	63.1 55 130 0 0
Sample ID: LCSD-302	SampType: LCSD	TestCode: 8015FFP_S	Units: mg/Kg	Prep Date: 4/22/02	Run ID: L_FID-1_020424B
	Batch ID: 302	TestNo: SW8015M		Analysis Date: 4/24/02	SeqNo: 21976
Analyte					
Diesel Range Organics (C12-C22)	128	10	166.8	0	76.8 54 91 117 9.00 25
Sur: n-Octacosane	2.534	0.010	3.331	0	76.1 55 130 0 0 0

Qualifiers: ND - Not Detected at the Reporting Limit

C - Unspiked sample >5 times the amount spiked

B - Analyte detected in the associated Method Blank

JI - MS or MSD outside acceptance limits. LCS acceptable.

R - RPD outside accepted recovery limits

Page 1 of 2

J - This concentration is considered an estimate due to LCS failure.

Date: 29-Apr-02

CLIENT: Bechtel Nevada
Work Order: L0204298
Project: V1535

ANALYTICAL QC SUMMARY REPORT

8015ffp_w

Test Method: SW8015Ext

Sample ID: MB-303	SampType: MBLK	TestCode: 8015ffp_w	Units: mg/L	Prep Date: 4/23/02	Run ID: L_FID-1_020423C
	Batch ID: 303	TestNo: SW8015M		Analysis Date: 4/23/02	SeqNo: 20677
Analyte					
Gasoline Range Organics (C8-C12)	Result	PQL	SPK value	SPK Ref Val	%REC
ND	0.50				
Diesel Range Organics (C12-C22)					
ND	0.50				
Oil Range Organics (C22-C34)					
ND	0.50				
Total TPH					
ND	0.50				
Sur: n-Octacosane	0.075	0.010	0.1	0	75
				58	120
				0	0
Sample ID: LCS-303	SampType: LCS	TestCode: 8015ffp_w	Units: mg/L	Prep Date: 4/23/02	Run ID: L_FID-1_020423C
	Batch ID: 303	TestNo: SW8015M		Analysis Date: 4/23/02	SeqNo: 20676
Analyte					
Diesel Range Organics (C12-C22)	Result	PQL	SPK value	SPK Ref Val	%REC
3.967	0.50	5	0	79.3	53
Sur: n-Octacosane					
0.074	0.010	0.1	0	74	91
				58	120
				0	0
Sample ID: LCSD-303	SampType: LCSD	TestCode: 8015FFP_W	Units: mg/L	Prep Date: 4/23/02	Run ID: L_FID-1_020423C
	Batch ID: 303	TestNo: SW8015M		Analysis Date: 4/23/02	SeqNo: 20678
Analyte					
Diesel Range Organics (C12-C22)	Result	PQL	SPK value	SPK Ref Val	%REC
4.154	0.50	5	0	83.1	53
Sur: n-Octacosane					
0.074	0.010	0.1	0	74	91
				58	120
				3.967	4.61
				0	25
				0	0
				0	0

Qualifiers: ND - Not Detected at the Reporting Limit

C - Unspiked sample >5 times the amount spiked

B - Analyte detected in the associated Method Blank

JI - MS or MSD outside acceptance limits. LCS acceptable.

R - RPD outside accepted recovery limits

Page 2 of 2

J - This concentration is considered an estimate due to LCS failure.

Date: 29-Apr-02

11/25 10:45:11 2009 2:18
Bechtel Nevada

ANALYTICAL SERVICES LABORATORY
SERVICES REQUEST & CHAIN OF CUSTODY RECORD

Page 1 of 2

PROJECT/ CLIENT INFORMATION			REPORT INFORMATION				SAMPLE INFORMATION							
Project: CAU 326 BN Org#: A435		Send Report to: Mike Kruzic				Sampling Site: _____								
Charge No.: MC 5H09B223 ASL Prog.:		Phone: 5-7396		Fax: 5-7761		M/S: NTS 306								
Project Manager: Jeff Smith		Turnaround: <input checked="" type="checkbox"/> Standard - 30 days Non-rad, 60 Days Rad, Other: <input type="checkbox"/> Rush Preliminary by: _____ Final by: _____				The samples submitted contain (check): <input type="checkbox"/> Hazardous <input type="checkbox"/> Radioactive <input type="checkbox"/> Unknown contamination. If known, attach a brief narrative summary identifying contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.								
Phone: 5-0573	Fax: 5-7761	M/S: NTS 306	Final report format: <input type="checkbox"/> Standard <input type="checkbox"/> NTS-WAC <input type="checkbox"/> Other:											
LAB USE ONLY				ANALYSES & METHOD				SAMPLE RECEIPT INFORMATION						
Rad SGD:		Non-Rad SGD: V1535						Are all sample containers received intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Comments: _____						
Rad Packet:		Non-Rad Packet:						Do the labels agree with this form? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Comments: _____						
Client Services Representative:										Was a Material Clearance Tag submitted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Comments: _____				
Will these analyses be performed under a signed SOW? <input type="checkbox"/> YES <input type="checkbox"/> NO If so, do analyses entered here agree with the SOW? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A If not, identify the variation										COMMENTS (Preservative, size/volume, MS/MSD, special analysis, rad matrix code, count time, etc.)				
CSR initials indicating review and approval: _____ Date: _____										250 mL glass jar Samples contain no Rad				
I D E M	ID / DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	TPH - Gas/Dust/Oil - Hazard	TPH - Gas/Dust/Oil - Hazard	TPH - Gas/Dust/Oil - Hazard	TPH - Gas/Dust/Oil - Hazard	TPH - Gas/Dust/Oil - Hazard	TPH - Gas/Dust/Oil - Hazard	TPH - Gas/Dust/Oil - Hazard	TPH - Gas/Dust/Oil - Hazard	28	
01	062501-S1	4/16/02	10:00	Soil	X									
02	062501-S4	4/16/02	10:29	Soil	X									
03	062501-S6	4/16/02	11:10	Soil	X									
04	062501-S5	4/16/02	10:55	Soil	X									
05	062501-S8	4/16/02	12:50	Soil	X									
06	062501-S11	4/16/02	13:55	Soil	X									
07	062501-S7	4/16/02	10:54	Soil	X									
7														
8	AS* i cm													
9														
Transfer of samples submitted for analyses						Complete for samples shipped to an OFF-SITE Subcontract Laboratory							NIEZ	
Sampled/Relinquished (Signature/Organization)		DATE / TIME	Received by (Signature/Organization)			Relinquished (BN Representative Signature)		DATE / TIME	Received (Courier & Tracking Info.)					
/s/ Signature on file		4/17/02 5:20	/s/ Signature on file			/s/ Signature on file		4/17/02 13:00	BN Courier					
						Relinquished (Courier & Tracking Info.)		DATE / TIME	Received (1st tier Subcontractor Rep)					
						Relinquished (1st tier Subcontractor Rep)		DATE / TIME	Received (2nd tier Subcontractor Rep)					

Distribution: Original - To be retained by laboratory performing final analysis
Copy 1 - To be retained by laboratory performing intermediate analysis
Copy 2 - To be retained by Analytical Services Laboratory
Copy 3 - To be retained by sampler

BN-0732 (02/98)

4/25

REV 4

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Bechtel NevadaANALYTICAL SERVICES LABORATORY
SERVICES REQUEST & CHAIN OF CUSTODY RECORDPage 2 of 2

PROJECT/CLIENT INFORMATION			REPORT INFORMATION			SAMPLE INFORMATION							
Project: CHU 326 BN Org#: A435		Send Report to: Mike Krusz			Sampling Site: _____								
Charge No.: 5H09B223	ASL Prog.:	Phone: 5-7396	Fax: 5-7761	M/S: NTS 306	The samples submitted contain (check): <input type="checkbox"/> Hazardous <input type="checkbox"/> Radioactive <input type="checkbox"/> Unknown contamination. If known, attach a brief narrative summary identifying contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.								
Project Manager: Jeff Smith		Turnaround: 30 Standard - 30 days Non-rad, 60 Days Rad, Other: <input type="checkbox"/> Rush Preliminary by: _____ Final by: _____											
Phone: 5-0573	Fax: 5-7761	M/S: NTS 306	Final report format: <input type="checkbox"/> Standard <input type="checkbox"/> NTS-WAC <input type="checkbox"/> Other:										
LAB USE ONLY			ANALYSES & METHOD						SAMPLE RECEIPT INFORMATION				
Rad SGD: Non-Rad SGD: V1535			TPH - Gas / Diesel / Oil - Rad						Are all sample containers received intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Comments: _____				
Rad Packet:		Non-Rad Packet:								Do the labels agree with this form? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Comments: _____			
Client Services Representative: _____									Was a Material Clearance Tag submitted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Comments: _____				
Will these analyses be performed under a signed SOW? <input type="checkbox"/> YES <input type="checkbox"/> NO If so, do analyses entered here agree with the SOW? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A If not, identify the variation CSR initials indicating review and approval: _____ Date: _____									COMMENTS (Preservative, size/volume, MS/MSD, special analysis, rad matrix code, count time, etc.)				
08	ID / DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX							1 - L glass bottle Sample free of Rad		
	062501-S2	4/16/01	10:00	liquid									
	1												
	2												
	3												
	4												
	5												
	6												
	7												
	8												
9													
Transfer of samples submitted for analyses					Complete for samples shipped to an OFF-SITE Subcontract Laboratory <i>NEZ</i>								
Sampled/Relinquished (Signature/Organization)		DATE / TIME	Received by (Signature/Organization)		Relinquished (BN Representative Signature)		DATE / TIME	Received (Courier & Tracking Info.)					
/s/ Signature on file		4/17/01/050	/s/ Signature on file		/s/ Signature on file		4/17/01/050	BN COURIER					
					Relinquished (Courier & Tracking Info.)		DATE / TIME	Received (1st tier Subcontractor Rep)					
					Relinquished (1st tier Subcontractor Rep)		DATE / TIME	Received (2nd tier Subcontractor Rep)					

Distribution: Original - To be retained by laboratory performing final analysis
Copy 1 - To be retained by laboratory performing intermediate analysis
Copy 2 - To be retained by Analytical Services Laboratory
Copy 3 - To be retained by sampler

BN-0732 (02/98)

SAMPLE DELIVERY GROUP

V1625

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NEL LABORATORIES

**Corporate Headquarters /
Reno Laboratory**
4750 Longley Lane, Suite 106
Reno, NV 89502
Phone: 775.348.2522
Fax: 775.348.2546

Las Vegas Laboratory
4208 Arcata Way, Suite A
Las Vegas, NV 89030
Phone: 702.657.1010
Fax: 702.657.1577

Ted Redding
Bechtel Nevada
P.O. Box 98521, M/S NTS273
Las Vegas, NV 89193-8521
TEL: 702-295-7220

RE Project: **V1625**

Order No.: **L0206246**

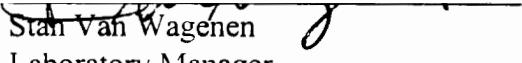
Dear Ted Redding:

NEL Laboratories, Las Vegas received 2 samples on 6/17/02 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications unless noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

/s/ Signature on file


Stan Van Wagenen
Laboratory Manager


6/26/02

Date

Certifications:	Reno	Las Vegas
Arizona	AZ0520	AZ0518
California	1707	2002
Idaho	Certified	Certified
Montana	Certified	Certified
Nevada	NV033	NV052
New Mexico	Certified	Certified

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1625
PROJECT #: 30033
MATRIX: SOLID

CLIENT ID: 326-B1-10
DATE SAMPLED: 6/13/02
NEL SAMPLE ID: L0206246-001A

Parameter	Result	Unit	Reporting Limit	DF	Method	Prep Date	Analyzed	Analyst
Diesel Range Organics (C12-C22)	4200	mg/Kg	50	5	SW8015Ext	06/18/02	06/19/02	PXC-LV
Gasoline Range Organics (C8-C12)	790	mg/Kg	50	5	SW8015Ext	06/18/02	06/19/02	PXC-LV
Oil Range Organics (C22-C34)	660	mg/Kg	250	5	SW8015Ext	06/18/02	06/19/02	PXC-LV
Total Petroleum Hydrocarbons	5700	mg/Kg	50	5	SW8015Ext	06/18/02	06/19/02	PXC-LV
Surr: n-Octacosane	120	%REC	55-130	5	SW8015Ext	06/18/02	06/19/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 26-Jun-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

Page 1 of 2

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1625
PROJECT #: 30033
MATRIX: SOLID

CLIENT ID: 326-B1-45
DATE SAMPLED: 6/13/02
NEL SAMPLE ID: L0206246-002A

Parameter	Reporting					Prep Date	Analyzed	Analyst
	Result	Unit	Limit	DF	Method			
Diesel Range Organics (C12-C22)	3600	mg/Kg	50	5	SW8015Ext	06/18/02	06/19/02	PXC-LV
Gasoline Range Organics (C8-C12)	390	mg/Kg	50	5	SW8015Ext	06/18/02	06/19/02	PXC-LV
Oil Range Organics (C22-C34)	330	mg/Kg	250	5	SW8015Ext	06/18/02	06/19/02	PXC-LV
Total Petroleum Hydrocarbons	4300	mg/Kg	50	5	SW8015Ext	06/18/02	06/19/02	PXC-LV
Surr: n-Octacosane	105	%REC	55-130	5	SW8015Ext	06/18/02	06/19/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 26-Jun-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

Page 2 of 2

Bechtel Nevada

ANALYTICAL LABORATORY
SERVICES REQUEST & CHAIN OF CUSTODY RECORD

Page 1 of 1

PROJECT/CLIENT INFORMATION		REPORT & TURNAROUND INFORMATION						SAMPLE INFORMATION			
Project: CAU 326	BN Org #: A455	Send Report to: M. Ke Kruzie						Sampling Site: CAU 326 CP Bus 1 or			
Charge Number: 5H09BZ23		Phone: 702-295-7516	Fax: 702-295-7761	M/S: NT5306	The samples submitted contain (check):						
Project Manager: Jeffrey L. Smith		Turnaround: <input checked="" type="checkbox"/> Standard - 14 days IH, 28 days Non-rad Env, 45 Days Rad Env, <input type="checkbox"/> Rush Preliminary by: _____ (IH)						<input type="checkbox"/> Hazardous (list) -			
702-295-7775	Phone: 702-295-9161	M/S: NT5306			<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 7	<input type="checkbox"/> 14 (non-Rad Env)	<input type="checkbox"/> Radioactive (list) -		
					<input type="checkbox"/> 1	<input type="checkbox"/> 7	<input type="checkbox"/> 14	<input type="checkbox"/> 28 (Radiological Env)	<input type="checkbox"/> Unknown contamination.		
If known, identify contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.											
SAMPLE MANAGEMENT INFORMATION								Pay Item, Analysis, Method			
SDG: _____ (IH) V1625 (Non-Rad Env) _____ (Rad Env) _____	10.21										
Samples submitted are associated with a signed Project SOW <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No											
Analyses entered here agree with the SOW <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A											
If not, identify the variation: _____											
Subcontract Lab(s) used for this work: NEL											
ID/DESCRIPTION	SAMPLING DATE	TIME	MATRIX	CONTAINER #	Est. Vol	QC MD	MS	MSD	Pres - Analysis eg. HCl - VOCs	TPH-Diesel/0.1	
326-B1-10	6-13-02	10:50	Soil	1	250					X	
326-B1-45	6-13-02	14:03	Soil	1	250					X	
LAST ITEM											
CUSTODY TRANSFER		Signature		Date/Time		Received by (print)			Signature		Date/Time
Sampled/Relinquished (print)		Michael Kruzie		6-17-02 0853		CASTANEDA			6-17-02 0833		/s/ Signature on file
ACASTANEDA		/s/ Signature on file		6-17-02 1300		BN COURIER			/s/ Signature on file		6-17-02 1300
COURIER						Danya Cockett			/s/ Signature on file		6-17-02 1745

SAMPLE DELIVERY GROUP

V1622

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NEL LABORATORIES

Corporate Headquarters /
Reno Laboratory
4750 Longley Lane, Suite 106
Reno, NV 89502
Phone: 775.348.2522
Fax: 775.348.2546

Las Vegas Laboratory
4205 Arcata Way, Suite A
Las Vegas, NV 89030
Phone: 702.657.1010
Fax: 702.657.1577

Ted Redding
Bechtel Nevada
P.O. Box 98521, M/S NTS273
Las Vegas, NV 89193-8521

TEL: 702-295-7220

RE Project: V1622

Order No.: L0206211

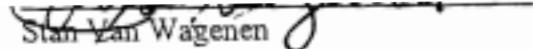
Dear Ted Redding:

NEL Laboratories, Las Vegas received 5 samples on 6/13/02 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications unless noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

/s/ Signature on file


Stan Van Waagenen
Laboratory Manager

6/24/02
Date

Certifications:	Reno	Las Vegas
Arizona	AZ0520	AZ0518
California	1707	2002
Idaho	Certified	Certified
Montana	Certified	Certified
Nevada	NV033	NV052
New Mexico	Certified	Certified

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1622
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 326-B2-5
DATE SAMPLED: 6/11/02
NEL SAMPLE ID: L0206211-001A

Parameter	Reporting							
	Result	Unit	Limit	DF	Method	Prep Date	Analyzed	Analyst
Gasoline Range Organics (C8-C12)	34	mg/Kg	10	1	SW8015Ext	06/17/02	06/19/02	PXC-LV
Diesel Range Organics (C12-C22)	980	mg/Kg	10	1	SW8015Ext	06/17/02	06/19/02	PXC-LV
Oil Range Organics (C22-C34)	280	mg/Kg	50	1	SW8015Ext	06/17/02	06/19/02	PXC-LV
Total Petroleum Hydrocarbons	1300	mg/Kg	10	1	SW8015Ext	06/17/02	06/19/02	PXC-LV
Surr: n-Octacosane	67.1	%REC	55-130	1	SW8015Ext	06/17/02	06/19/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 24-Jun-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

Page 1 of 5

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1622
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 326-OB2-5
DATE SAMPLED: 6/12/02
NEL SAMPLE ID: L0206211-002A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	Reporting		<u>Method</u>	<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>				
Gasoline Range Organics (C8-C12)	40	mg/Kg	10	1	SW8015Ext	06/17/02	06/19/02	PXC-LV
Diesel Range Organics (C12-C22)	1300	mg/Kg	10	1	SW8015Ext	06/17/02	06/19/02	PXC-LV
Oil Range Organics (C22-C34)	410	mg/Kg	50	1	SW8015Ext	06/17/02	06/19/02	PXC-LV
Total Petroleum Hydrocarbons	1800	mg/Kg	10	1	SW8015Ext	06/17/02	06/19/02	PXC-LV
Surr: n-Octacosane	90.1	%REC	55-130	1	SW8015Ext	06/17/02	06/19/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 24-Jun-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

Page 2 of 5

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1622
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 326-B2-45
DATE SAMPLED: 6/12/02
NEL SAMPLE ID: L0206211-003A

<u>Parameter</u>	<u>Reporting</u>							
	<u>Result</u>	<u>Unit</u>	<u>Limit</u>	<u>DF</u>	<u>Method</u>	<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	06/17/02	06/19/02	PXC-LV
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	06/17/02	06/19/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	06/17/02	06/19/02	PXC-LV
Total Petroleum Hydrocarbons	ND	mg/Kg	10	1	SW8015Ext	06/17/02	06/19/02	PXC-LV
Surr: n-Octacosane	86.1	%REC	55-130	1	SW8015Ext	06/17/02	06/19/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 24-Jun-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1622
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 326-OB2-45
DATE SAMPLED: 6/12/02
NEL SAMPLE ID: L0206211-004A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	Reporting		<u>Method</u>	<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>				
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	06/17/02	06/19/02	PXC-LV
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	06/17/02	06/19/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	06/17/02	06/19/02	PXC-LV
Total Petroleum Hydrocarbons	ND	mg/Kg	10	1	SW8015Ext	06/17/02	06/19/02	PXC-LV
Surr: n-Octacosane	81.1	%REC	55-130	1	SW8015Ext	06/17/02	06/19/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 24-Jun-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

Page 4 of 5

NEL LABORATORIES

CLIENT: Bechtel Nevada
 PROJECT ID: V1622
 PROJECT #: 30033
 MATRIX: SOIL

CLIENT ID: 326-B2-50
 DATE SAMPLED: 6/12/02
 NEL SAMPLE ID: L0206211-005A

<u>Parameter</u>	Reporting							
	<u>Result</u>	<u>Unit</u>	<u>Limit</u>	<u>DF</u>	<u>Method</u>	<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	06/17/02	06/19/02	PXC-LV
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	06/17/02	06/19/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	06/17/02	06/19/02	PXC-LV
Total Petroleum Hydrocarbons	ND	mg/Kg	10	1	SW8015Ext	06/17/02	06/19/02	PXC-LV
Surr: n-Octacosane	78.1	%REC	55-130	1	SW8015Ext	06/17/02	06/19/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 24-Jun-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

Page 5 of 5

CLIENT: Bechtel Nevada
 Work Order: L0206211
 Project: V1622

ANALYTICAL QC SUMMARY REPORT

BatchID: 488

Sample ID: 020617TPHS-MB	SampType: MBLK	TestCode: 8015FFF_S	Units: mg/Kg	Prep Date: 6/17/02	Run ID: L_FID-1_020617B						
	Batch ID: 488	TestNo: SW8015M		Analysis Date: 6/17/02	SeqNo: 38533						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (C8-C12)	ND	10									
Diesel Range Organics (C12-C22)	ND	10									
Oil Range Organics (C22-C34)	ND	50									
Total Petroleum Hydrocarbons	ND	10									
Sum: n-Octacosane	3.3	0.010	3.33	0	99.1	55	130	0	0	0	
Sample ID: 020617TPHS-LCS	SampType: LCS	TestCode: 8015FFF_S	Units: mg/Kg	Prep Date: 6/17/02	Run ID: L_FID-1_020617B						
	Batch ID: 488	TestNo: SW8015M		Analysis Date: 6/17/02	SeqNo: 38531						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (C12-C22)	98.47	10	166.4	0	59.2	54	91	0	0	0	
Sum: n-Octacosane	2.795	0.010	3.324	0	84.1	55	130	0	0	0	
Sample ID: 020617TPHS-LCSD	SampType: LCSD	TestCode: 8015FFF_S	Units: mg/Kg	Prep Date: 6/17/02	Run ID: L_FID-1_020617B						
	Batch ID: 488	TestNo: SW8015M		Analysis Date: 6/17/02	SeqNo: 38532						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (C12-C22)	111.6	10	166.7	0	67	54	91	98.47	12.5	25	
Sum: n-Octacosane	2.933	0.010	3.33	0	88.1	55	130	0	0	0	
Sample ID: L0206211-005A	SampType: MS	TestCode: 8015FFF_S	Units: mg/Kg	Prep Date: 6/17/02	Run ID: L_FID-1_020617B						
	Batch ID: 488	TestNo: SW8015M		Analysis Date: 6/19/02	SeqNo: 39932						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (C12-C22)	130.5	10	166.8	0	78.3	54	91	0	0	0	
Sum: n-Octacosane	3.134	0.010	3.331	0	94.1	55	130	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Bechtel Nevada
Work Order: L0206211
Project: V1622

ANALYTICAL QC SUMMARY REPORT

BatchID: 488

Sample ID: L0206211-005A	SampType: MSD	TestCode: 8015FFF_S	Units: mg/Kg	Prep Date: 6/17/02	Run ID: L_FID-1_020617B						
	Batch ID: 488	TestNo: SW8015M		Analysis Date: 6/19/02	SeqNo: 39933						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limit

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method iBlank

JULY 4 2005 11:11

Bechtel NevadaANALYTICAL LABORATORY
SERVICES REQUEST & CHAIN OF CUSTODY RECORD

Page 1 of 1

PROJECT/CLIENT INFORMATION		REPORT & TURNAROUND INFORMATION					SAMPLE INFORMATION	
Project CAU 326 BN Case # A435 Charge Number: 5404 BZ23 Project Manager: Jeffrey L. Smith Phone: 702-245-7775 Fax: 702-245-7761 MIS: A15500		Send Report to: Michael Krueck Phone: 702-245-7746 Fax: 702-245-7761 MIS: A15300 Turnaround: <input checked="" type="checkbox"/> Standard - 14 days (H), 28 days Non-rad Env, 45 Days Rad Env. <input type="checkbox"/> Rush Preliminary by: _____ (H)					Sampling Site: CAU 326 The samples submitted contain (check): <input type="checkbox"/> Hazardous (Yes) _____ <input type="checkbox"/> Radioactive (Yes) _____ <input checked="" type="checkbox"/> Unknown contamination If known, identify contaminants: _____ This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials	
SAMPLE MANAGEMENT INFORMATION							Pay Item, Analysis, Method	
SDG: _____ (IH) <u>V1622</u> (Non-Rad Env) _____ (Rad Env) Samples submitted are associated with a signed Project SOW <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Analyses entered here agree with the SOW <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A If not, identify the variation: _____ Subcontract Lab(s) used for this work: <u>NEI</u>							10.31 Diss/Cr TP ¹ ² ³ ⁴ ⁵ ⁶ ⁷ ⁸ ⁹ ¹⁰ ¹¹ ¹² ¹³ ¹⁴ ¹⁵ ¹⁶ ¹⁷ ¹⁸ ¹⁹ ²⁰ ²¹ ²² ²³ ²⁴ ²⁵ ²⁶ ²⁷ ²⁸ ²⁹ ³⁰ ³¹ ³² ³³ ³⁴ ³⁵ ³⁶ ³⁷ ³⁸ ³⁹ ⁴⁰ ⁴¹ ⁴² ⁴³ ⁴⁴ ⁴⁵ ⁴⁶ ⁴⁷ ⁴⁸ ⁴⁹ ⁵⁰ ⁵¹ ⁵² ⁵³ ⁵⁴ ⁵⁵ ⁵⁶ ⁵⁷ ⁵⁸ ⁵⁹ ⁶⁰ ⁶¹ ⁶² ⁶³ ⁶⁴ ⁶⁵ ⁶⁶ ⁶⁷ ⁶⁸ ⁶⁹ ⁷⁰ ⁷¹ ⁷² ⁷³ ⁷⁴ ⁷⁵ ⁷⁶ ⁷⁷ ⁷⁸ ⁷⁹ ⁸⁰ ⁸¹ ⁸² ⁸³ ⁸⁴ ⁸⁵ ⁸⁶ ⁸⁷ ⁸⁸ ⁸⁹ ⁹⁰ ⁹¹ ⁹² ⁹³ ⁹⁴ ⁹⁵ ⁹⁶ ⁹⁷ ⁹⁸ ⁹⁹ ¹⁰⁰ ¹⁰¹ ¹⁰² ¹⁰³ ¹⁰⁴ ¹⁰⁵ ¹⁰⁶ ¹⁰⁷ ¹⁰⁸ ¹⁰⁹ ¹¹⁰ ¹¹¹ ¹¹² ¹¹³ ¹¹⁴ ¹¹⁵ ¹¹⁶ ¹¹⁷ ¹¹⁸ ¹¹⁹ ¹²⁰ ¹²¹ ¹²² ¹²³ ¹²⁴ ¹²⁵ ¹²⁶ ¹²⁷ ¹²⁸ ¹²⁹ ¹³⁰ ¹³¹ ¹³² ¹³³ ¹³⁴ ¹³⁵ ¹³⁶ ¹³⁷ ¹³⁸ ¹³⁹ ¹⁴⁰ ¹⁴¹ ¹⁴² ¹⁴³ ¹⁴⁴ ¹⁴⁵ ¹⁴⁶ ¹⁴⁷ ¹⁴⁸ ¹⁴⁹ ¹⁵⁰ ¹⁵¹ ¹⁵² ¹⁵³ ¹⁵⁴ ¹⁵⁵ ¹⁵⁶ ¹⁵⁷ ¹⁵⁸ ¹⁵⁹ ¹⁶⁰ ¹⁶¹ ¹⁶² ¹⁶³ ¹⁶⁴ ¹⁶⁵ ¹⁶⁶ ¹⁶⁷ ¹⁶⁸ ¹⁶⁹ ¹⁷⁰ ¹⁷¹ ¹⁷² ¹⁷³ ¹⁷⁴ ¹⁷⁵ ¹⁷⁶ ¹⁷⁷ ¹⁷⁸ ¹⁷⁹ ¹⁸⁰ ¹⁸¹ ¹⁸² ¹⁸³ ¹⁸⁴ ¹⁸⁵ ¹⁸⁶ ¹⁸⁷ ¹⁸⁸ ¹⁸⁹ ¹⁹⁰ ¹⁹¹ ¹⁹² ¹⁹³ ¹⁹⁴ ¹⁹⁵ ¹⁹⁶ ¹⁹⁷ ¹⁹⁸ ¹⁹⁹ ²⁰⁰ ²⁰¹ ²⁰² ²⁰³ ²⁰⁴ ²⁰⁵ ²⁰⁶ ²⁰⁷ ²⁰⁸ ²⁰⁹ ²¹⁰ ²¹¹ ²¹² ²¹³ ²¹⁴ ²¹⁵ ²¹⁶ ²¹⁷ ²¹⁸ ²¹⁹ ²²⁰ ²²¹ ²²² ²²³ ²²⁴ ²²⁵ ²²⁶ ²²⁷ ²²⁸ ²²⁹ ²³⁰ ²³¹ ²³² ²³³ ²³⁴ ²³⁵ ²³⁶ ²³⁷ ²³⁸ ²³⁹ ²⁴⁰ ²⁴¹ ²⁴² ²⁴³ ²⁴⁴ ²⁴⁵ ²⁴⁶ ²⁴⁷ ²⁴⁸ ²⁴⁹ ²⁵⁰ ²⁵¹ ²⁵² ²⁵³ ²⁵⁴ ²⁵⁵ ²⁵⁶ ²⁵⁷ ²⁵⁸ ²⁵⁹ ²⁶⁰ ²⁶¹ ²⁶² ²⁶³ ²⁶⁴ ²⁶⁵ ²⁶⁶ ²⁶⁷ ²⁶⁸ ²⁶⁹ ²⁷⁰ ²⁷¹ ²⁷² ²⁷³ ²⁷⁴ ²⁷⁵ ²⁷⁶ ²⁷⁷ ²⁷⁸ ²⁷⁹ ²⁸⁰ ²⁸¹ ²⁸² ²⁸³ ²⁸⁴ ²⁸⁵ ²⁸⁶ ²⁸⁷ ²⁸⁸ ²⁸⁹ ²⁹⁰ ²⁹¹ ²⁹² ²⁹³ ²⁹⁴ ²⁹⁵ ²⁹⁶ ²⁹⁷ ²⁹⁸ ²⁹⁹ ³⁰⁰ ³⁰¹ ³⁰² ³⁰³ ³⁰⁴ ³⁰⁵ ³⁰⁶ ³⁰⁷ ³⁰⁸ ³⁰⁹ ³¹⁰ ³¹¹ ³¹² ³¹³ ³¹⁴ ³¹⁵ ³¹⁶ ³¹⁷ ³¹⁸ ³¹⁹ ³²⁰ ³²¹ ³²² ³²³ ³²⁴ ³²⁵ ³²⁶ ³²⁷ ³²⁸ ³²⁹ ³³⁰ ³³¹ ³³² ³³³ ³³⁴ ³³⁵ ³³⁶ ³³⁷ ³³⁸ ³³⁹ ³⁴⁰ ³⁴¹ ³⁴² ³⁴³ ³⁴⁴ ³⁴⁵ ³⁴⁶ ³⁴⁷ ³⁴⁸ ³⁴⁹ ³⁵⁰ ³⁵¹ ³⁵² ³⁵³ ³⁵⁴ ³⁵⁵ ³⁵⁶ ³⁵⁷ ³⁵⁸ ³⁵⁹ ³⁶⁰ ³⁶¹ ³⁶² ³⁶³ ³⁶⁴ ³⁶⁵ ³⁶⁶ ³⁶⁷ ³⁶⁸ ³⁶⁹ ³⁷⁰ ³⁷¹ ³⁷² ³⁷³ ³⁷⁴ ³⁷⁵ ³⁷⁶ ³⁷⁷ ³⁷⁸ ³⁷⁹ ³⁸⁰ ³⁸¹ ³⁸² ³⁸³ ³⁸⁴ ³⁸⁵ ³⁸⁶ ³⁸⁷ ³⁸⁸ ³⁸⁹ ³⁹⁰ ³⁹¹ ³⁹² ³⁹³ ³⁹⁴ ³⁹⁵ ³⁹⁶ ³⁹⁷ ³⁹⁸ ³⁹⁹ ⁴⁰⁰ ⁴⁰¹ ⁴⁰² ⁴⁰³ ⁴⁰⁴ ⁴⁰⁵ ⁴⁰⁶ ⁴⁰⁷ ⁴⁰⁸ ⁴⁰⁹ ⁴¹⁰ ⁴¹¹ ⁴¹² ⁴¹³ ⁴¹⁴ ⁴¹⁵ ⁴¹⁶ ⁴¹⁷ ⁴¹⁸ ⁴¹⁹ ⁴²⁰ ⁴²¹ ⁴²² ⁴²³ ⁴²⁴ ⁴²⁵ ⁴²⁶ ⁴²⁷ ⁴²⁸ ⁴²⁹ ⁴³⁰ ⁴³¹ ⁴³² ⁴³³ ⁴³⁴ ⁴³⁵ ⁴³⁶ ⁴³⁷ ⁴³⁸ ⁴³⁹ ⁴⁴⁰ ⁴⁴¹ ⁴⁴² ⁴⁴³ ⁴⁴⁴ ⁴⁴⁵ ⁴⁴⁶ ⁴⁴⁷ ⁴⁴⁸ ⁴⁴⁹ ⁴⁵⁰ ⁴⁵¹ ⁴⁵² ⁴⁵³ ⁴⁵⁴ ⁴⁵⁵ ⁴⁵⁶ ⁴⁵⁷ ⁴⁵⁸ ⁴⁵⁹ ⁴⁶⁰ ⁴⁶¹ ⁴⁶² ⁴⁶³ ⁴⁶⁴ ⁴⁶⁵ ⁴⁶⁶ ⁴⁶⁷ ⁴⁶⁸ ⁴⁶⁹ ⁴⁷⁰ ⁴⁷¹ ⁴⁷² ⁴⁷³ ⁴⁷⁴ ⁴⁷⁵ ⁴⁷⁶ ⁴⁷⁷ ⁴⁷⁸ ⁴⁷⁹ ⁴⁸⁰ ⁴⁸¹ ⁴⁸² ⁴⁸³ ⁴⁸⁴ ⁴⁸⁵ ⁴⁸⁶ ⁴⁸⁷ ⁴⁸⁸ ⁴⁸⁹ ⁴⁹⁰ ⁴⁹¹ ⁴⁹² ⁴⁹³ ⁴⁹⁴ ⁴⁹⁵ ⁴⁹⁶ ⁴⁹⁷ ⁴⁹⁸ ⁴⁹⁹ ⁵⁰⁰ ⁵⁰¹ ⁵⁰² ⁵⁰³ ⁵⁰⁴ ⁵⁰⁵ ⁵⁰⁶ ⁵⁰⁷ ⁵⁰⁸ ⁵⁰⁹ ⁵¹⁰ ⁵¹¹ ⁵¹² ⁵¹³ ⁵¹⁴ ⁵¹⁵ ⁵¹⁶ ⁵¹⁷ ⁵¹⁸ ⁵¹⁹ ⁵²⁰ ⁵²¹ ⁵²² ⁵²³ ⁵²⁴ ⁵²⁵ ⁵²⁶ ⁵²⁷ ⁵²⁸ ⁵²⁹ ⁵³⁰ ⁵³¹ ⁵³² ⁵³³ ⁵³⁴ ⁵³⁵ ⁵³⁶ ⁵³⁷ ⁵³⁸ ⁵³⁹ ⁵⁴⁰ ⁵⁴¹ ⁵⁴² ⁵⁴³ ⁵⁴⁴ ⁵⁴⁵ ⁵⁴⁶ ⁵⁴⁷ ⁵⁴⁸ ⁵⁴⁹ ⁵⁵⁰ ⁵⁵¹ ⁵⁵² ⁵⁵³ ⁵⁵⁴ ⁵⁵⁵ ⁵⁵⁶ ⁵⁵⁷ ⁵⁵⁸ ⁵⁵⁹ ⁵⁶⁰ ⁵⁶¹ ⁵⁶² ⁵⁶³ ⁵⁶⁴ ⁵⁶⁵ ⁵⁶⁶ ⁵⁶⁷ ⁵⁶⁸ ⁵⁶⁹ ⁵⁷⁰ ⁵⁷¹ ⁵⁷² ⁵⁷³ ⁵⁷⁴ ⁵⁷⁵ ⁵⁷⁶ ⁵⁷⁷ ⁵⁷⁸ ⁵⁷⁹ ⁵⁸⁰ ⁵⁸¹ ⁵⁸² ⁵⁸³ ⁵⁸⁴ ⁵⁸⁵ ⁵⁸⁶ ⁵⁸⁷ ⁵⁸⁸ ⁵⁸⁹ ⁵⁹⁰ ⁵⁹¹ ⁵⁹² ⁵⁹³ ⁵⁹⁴ ⁵⁹⁵ ⁵⁹⁶ ⁵⁹⁷ ⁵⁹⁸ ⁵⁹⁹ ⁶⁰⁰ ⁶⁰¹ ⁶⁰² ⁶⁰³ ⁶⁰⁴ ⁶⁰⁵ ⁶⁰⁶ ⁶⁰⁷ ⁶⁰⁸ ⁶⁰⁹ ⁶¹⁰ ⁶¹¹ ⁶¹² ⁶¹³ ⁶¹⁴ ⁶¹⁵ ⁶¹⁶ ⁶¹⁷ ⁶¹⁸ ⁶¹⁹ ⁶²⁰ ⁶²¹ ⁶²² ⁶²³ ⁶²⁴ ⁶²⁵ ⁶²⁶ ⁶²⁷ ⁶²⁸ ⁶²⁹ ⁶³⁰ ⁶³¹ ⁶³² ⁶³³ ⁶³⁴ ⁶³⁵ ⁶³⁶ ⁶³⁷ ⁶³⁸ ⁶³⁹ ⁶⁴⁰ ⁶⁴¹ ⁶⁴² ⁶⁴³ ⁶⁴⁴ ⁶⁴⁵ ⁶⁴⁶ ⁶⁴⁷ ⁶⁴⁸ ⁶⁴⁹ ⁶⁵⁰ ⁶⁵¹ ⁶⁵² ⁶⁵³ ⁶⁵⁴ ⁶⁵⁵ ⁶⁵⁶ ⁶⁵⁷ ⁶⁵⁸ ⁶⁵⁹ ⁶⁶⁰ ⁶⁶¹ ⁶⁶² ⁶⁶³ ⁶⁶⁴ ⁶⁶⁵ ⁶⁶⁶ ⁶⁶⁷ ⁶⁶⁸ ⁶⁶⁹ ⁶⁷⁰ ⁶⁷¹ ⁶⁷² ⁶⁷³ ⁶⁷⁴ ⁶⁷⁵ ⁶⁷⁶ ⁶⁷⁷ ⁶⁷⁸ ⁶⁷⁹ ⁶⁸⁰ ⁶⁸¹ ⁶⁸² ⁶⁸³ ⁶⁸⁴ ⁶⁸⁵ ⁶⁸⁶ ⁶⁸⁷ ⁶⁸⁸ ⁶⁸⁹ ⁶⁹⁰ ⁶⁹¹ ⁶⁹² ⁶⁹³ ⁶⁹⁴ ⁶⁹⁵ ⁶⁹⁶ ⁶⁹⁷ ⁶⁹⁸ ⁶⁹⁹ ⁷⁰⁰ ⁷⁰¹ ⁷⁰² ⁷⁰³ ⁷⁰⁴ ⁷⁰⁵ ⁷⁰⁶ ⁷⁰⁷ ⁷⁰⁸ ⁷⁰⁹ ⁷¹⁰ ⁷¹¹ ⁷¹² ⁷¹³ ⁷¹⁴ ⁷¹⁵ ⁷¹⁶ ⁷¹⁷ ⁷¹⁸ ⁷¹⁹ ⁷²⁰ ⁷²¹ ⁷²² ⁷²³ ⁷²⁴ ⁷²⁵ ⁷²⁶ ⁷²⁷ ⁷²⁸ ⁷²⁹ ⁷³⁰ ⁷³¹ ⁷³² ⁷³³ ⁷³⁴ ⁷³⁵ ⁷³⁶ ⁷³⁷ ⁷³⁸ ⁷³⁹ ⁷⁴⁰ ⁷⁴¹ ⁷⁴² ⁷⁴³ ⁷⁴⁴ ⁷⁴⁵ ⁷⁴⁶ ⁷⁴⁷ ⁷⁴⁸ ⁷⁴⁹ ⁷⁵⁰ ⁷⁵¹ ⁷⁵² ⁷⁵³ ⁷⁵⁴ ⁷⁵⁵ ⁷⁵⁶ ⁷⁵⁷ ⁷⁵⁸ ⁷⁵⁹ ⁷⁶⁰ ⁷⁶¹ ⁷⁶² ⁷⁶³ ⁷⁶⁴ ⁷⁶⁵ ⁷⁶⁶ ⁷⁶⁷ ⁷⁶⁸ ⁷⁶⁹ ⁷⁷⁰ ⁷⁷¹ ⁷⁷² ⁷⁷³ ⁷⁷⁴ ⁷⁷⁵ ⁷⁷⁶ ⁷⁷⁷ ⁷⁷⁸ ⁷⁷⁹ ⁷⁸⁰ ⁷⁸¹ ⁷⁸² ⁷⁸³ ⁷⁸⁴ ⁷⁸⁵ ⁷⁸⁶ ⁷⁸⁷ ⁷⁸⁸ ⁷⁸⁹ ⁷⁹⁰ ⁷⁹¹ ⁷⁹² ⁷⁹³ ⁷⁹⁴ ⁷⁹⁵ ⁷⁹⁶ ⁷⁹⁷ ⁷⁹⁸ ⁷⁹⁹ ⁸⁰⁰ ⁸⁰¹ ⁸⁰² ⁸⁰³ ⁸⁰⁴ ⁸⁰⁵ ⁸⁰⁶ ⁸⁰⁷ ⁸⁰⁸ ⁸⁰⁹ ⁸¹⁰ ⁸¹¹ ⁸¹² ⁸¹³ ⁸¹⁴ ⁸¹⁵ ⁸¹⁶ ⁸¹⁷ ⁸¹⁸ ⁸¹⁹ ⁸²⁰ ⁸²¹ ⁸²² ⁸²³ ⁸²⁴ ⁸²⁵ ⁸²⁶ ⁸²⁷ ⁸²⁸ ⁸²⁹ ⁸³⁰ ⁸³¹ ⁸³² ⁸³³ ⁸³⁴ ⁸³⁵ ⁸³⁶ ⁸³⁷ ⁸³⁸ ⁸³⁹ ⁸⁴⁰ ⁸⁴¹ ⁸⁴² ⁸⁴³ ⁸⁴⁴ ⁸⁴⁵ ⁸⁴⁶ ⁸⁴⁷ ⁸⁴⁸ ⁸⁴⁹ ⁸⁵⁰ ⁸⁵¹ ⁸⁵² ⁸⁵³ ⁸⁵⁴ ⁸⁵⁵ ⁸⁵⁶ ⁸⁵⁷ ⁸⁵⁸ ⁸⁵⁹ ⁸⁶⁰ ⁸⁶¹ ⁸⁶² ⁸⁶³ ⁸⁶⁴ ⁸⁶⁵ ⁸⁶⁶ ⁸⁶⁷ ⁸⁶⁸ ⁸⁶⁹ ⁸⁷⁰ ⁸⁷¹ ⁸⁷² ⁸⁷³ ⁸⁷⁴ ⁸⁷⁵ ⁸⁷⁶ ⁸⁷⁷ ⁸⁷⁸ ⁸⁷⁹ ⁸⁸⁰ ⁸⁸¹ ⁸⁸² ⁸⁸³ ⁸⁸⁴ ⁸⁸⁵ ⁸⁸⁶ ⁸⁸⁷ ⁸⁸⁸ ⁸⁸⁹ ⁸⁹⁰ ⁸⁹¹ ⁸⁹² ⁸⁹³ ⁸⁹⁴ ⁸⁹⁵ ⁸⁹⁶ ⁸⁹⁷ ⁸⁹⁸ ⁸⁹⁹ ⁹⁰⁰ ⁹⁰¹ ⁹⁰² ⁹⁰³ ⁹⁰⁴ ⁹⁰⁵ ⁹⁰⁶ ⁹⁰⁷ ⁹⁰⁸ ⁹⁰⁹ ⁹¹⁰ ⁹¹¹ ⁹¹² ⁹¹³ ⁹¹⁴ ⁹¹⁵ ⁹¹⁶ ⁹¹⁷ ⁹¹⁸ ⁹¹⁹ ⁹²⁰ ⁹²¹ ⁹²² ⁹²³ ⁹²⁴ ⁹²⁵ ⁹²⁶ ⁹²⁷ ⁹²⁸ ⁹²⁹ ⁹³⁰ ⁹³¹ ⁹³² ⁹³³ ⁹³⁴ ⁹³⁵ ⁹³⁶ ⁹³⁷ ⁹³⁸ ⁹³⁹ ⁹⁴⁰ ⁹⁴¹ ⁹⁴² ⁹⁴³ ⁹⁴⁴ ⁹⁴⁵ ⁹⁴⁶ ⁹⁴⁷ ⁹⁴⁸ ⁹⁴⁹ ⁹⁵⁰ ⁹⁵¹ ⁹⁵² ⁹⁵³ ⁹⁵⁴ ⁹⁵⁵ ⁹⁵⁶ ⁹⁵⁷ ⁹⁵⁸ ⁹⁵⁹ ⁹⁶⁰ ⁹⁶¹ ⁹⁶² ⁹⁶³ ⁹⁶⁴ ⁹⁶⁵ ⁹⁶⁶ ⁹⁶⁷ <	

SAMPLE DELIVERY GROUP

V1635

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NEL LABORATORIES

Reno • Las Vegas
Phoenix • Boise

Corporate Division

4750 Longley Lane, Suite 106 • Reno, Nevada 89502

775-348-2522 • Fax: 775-788-7650

775-788-7648 • 1-800-368-5221



Ted Redding
Bechtel Nevada
P.O. Box 98521, M/S NTS273
Las Vegas, NV 89193-8521

TEL: 702-295-7220

RE Project: **V1635**

Order No.: **L0206374**

Dear Ted Redding:

NEL Laboratories, Las Vegas received 3 samples on 6/24/02 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications unless noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

/s/ Signature on file

Stan Vap Wagener
Laboratory Manager

7/15/02

Date

Certifications:	Reno	Las Vegas
Arizona	AZ0520	AZ0518
California	1707	2002
Idaho	Certified	Certified
Montana	Certified	Certified
Nevada	NV033	NV052
New Mexico	Certified	Certified

NEL LABORATORIES

CLIENT: Bechtel Nevada
 PROJECT ID: V1635
 PROJECT #: 30033
 MATRIX: SOLID

CLIENT ID: 326-B3-45
 DATE SAMPLED: 6/18/02
 NEL SAMPLE ID: L0206374-001A

Parameter	Reporting							
	Result	Unit	Limit	DF	Method	Prep Date	Analyzed	Analyst
Diesel Range Organics (C12-C22)	ND	mg/Kg	20	1	SW8015Ext	06/26/02	06/28/02	PXC-LV
Gasoline Range Organics (C8-C12)	ND	mg/Kg	20	1	SW8015Ext	06/26/02	06/28/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	06/26/02	06/28/02	PXC-LV
Total Petroleum Hydrocarbons	ND	mg/Kg	20	1	SW8015Ext	06/26/02	06/28/02	PXC-LV
Surr: n-Octacosane	92.1	%REC	55-130	1	SW8015Ext	06/26/02	06/28/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 15-Jul-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

Page 1 of 3

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1635
PROJECT #: 30033
MATRIX: SOLID

CLIENT ID: 326-B3-50
DATE SAMPLED: 6/18/02
NEL SAMPLE ID: L0206374-002A

Parameter	Reporting							
	Result	Unit	Limit	DF	Method	Prep Date	Analyzed	Analyst
Diesel Range Organics (C12-C22)	ND	mg/Kg	20	1	SW8015Ext	06/26/02	06/28/02	PXC-LV
Gasoline Range Organics (C8-C12)	ND	mg/Kg	20	1	SW8015Ext	06/26/02	06/28/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	06/26/02	06/28/02	PXC-LV
Total Petroleum Hydrocarbons	ND	mg/Kg	20	1	SW8015Ext	06/26/02	06/28/02	PXC-LV
Surr: n-Octacosane	66.1	%REC	55-130	1	SW8015Ext	06/26/02	06/28/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 15-Jul-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

Page 2 of 3

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1635
PROJECT #: 30033
MATRIX: SOLID

CLIENT ID: 326-B5-50
DATE SAMPLED: 6/19/02
NEL SAMPLE ID: L0206374-003A

Parameter	Result	Unit	Reporting		DF	Method	Prep Date	Analyzed	Analyst
			Limit						
Diesel Range Organics (C12-C22)	ND	mg/Kg	20		1	SW8015Ext	07/01/02	07/06/02	PXC-LV
Gasoline Range Organics (C8-C12)	ND	mg/Kg	20		1	SW8015Ext	07/01/02	07/06/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50		1	SW8015Ext	07/01/02	07/06/02	PXC-LV
Total Petroleum Hydrocarbons	ND	mg/Kg	20		1	SW8015Ext	07/01/02	07/06/02	PXC-LV
Surr: n-Octacosane	93.1	%REC	55-130		1	SW8015Ext	07/01/02	07/06/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 15-Jul-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

Page 3 of 3

Bechtel Nevada

ANALYTICAL LABORATORY
SERVICES REQUEST & CHAIN OF CUSTODY RECORD

Page 1 of 1

PROJECT/CLIENT INFORMATION			REPORT & TURNAROUND INFORMATION						SAMPLE INFORMATION					
Project: CAU 326	BN O/S#:	A435	Send Report to: M. K. Kourie						Sampling Site: CAU 326 C1 B-20100					
Charge Number: 5407B223	Phone:	702-295-7891	FAX:	702-295-7761	M/S:	206	The samples submitted contain (check):							
Project Manager: Jeffrey L. S...	Turnaround:	<input checked="" type="checkbox"/> Standard - 14 days IH, 28 days Non-Rad Env, 45 Days Rad Env, <input type="checkbox"/> Rush Preliminary by _____ (IH)						<input type="checkbox"/> Hazardous (Rad) - _____	<input type="checkbox"/> Radioactive (Rad) - _____	<input type="checkbox"/> Unknown contamination.				
702-295-7775	702-295-7811	M/S:	306	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 7 <input type="checkbox"/> 14 (non-Rad Env) <input type="checkbox"/> 1 <input type="checkbox"/> 7 <input type="checkbox"/> 14 <input type="checkbox"/> 28 (Radiological Env)						If known, identify contaminants. The information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.				
Phone:														
SAMPLE MANAGEMENT INFORMATION										Pay Item, Analysis, Method				
SDG: _____ (IH) <u>11635</u> (Non-Rad Env) _____ (Rad Env)	10.21													
Samples submitted are associated with a signed Project SOW <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No														
Analyses entered here agree with the SOW <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A														
If not, identify the variation: _____														
Subcontract Lab(s) used for this work: <u>NEC</u>														
01 02 03	ID/DESCRIPTION	SAMPLING DATE	TIME	MATRIX	CONTAINER #	Est. Vol	QC MD	MS	MSD	Pres - Analysis eg. HCl - VOCs	TPA - Dissolve			
	326-B3-45	6/10/02	16:15	Soil	1	125	g				X			
	326-B3-50	6/10/02	16:30	Soil	1	125	g				X			
	326-B5-50	6/10/02	16:27	Soil	1	250	g				X			
	LAST ITEM												CORRECTED FROM KOURIE NON-RAD ANALYSED M87	
CUSTODY TRANSFER														
Sampled/Relinquished (print)	Signature		Date/Time		Received by (print)			Signature		Date/Time				
<u>Michael Kourie</u>	/s/ Signature on file		6/10/02 8:30		<u>MICHAEL S KOURIE</u>			/s/ Signature on file		6/10/02 9:30				
<u>MICHAEL S KOURIE</u>	/s/ Signature on file		6/10/02 12:53		<u>CACASTALED</u>			/s/ Signature on file		6/10/02 12:53				
<u>CACASTALED</u>	/s/ Signature on file		6/10/02 11:30		<u>BRI COUGIER</u>					6/10/02 11:30				
Retention Code: ERV3 a(1)														

NEL LABORATORIES



Corporate Headquarters /
Reno Laboratory
4750 Longley Lane, Suite 105
Reno, NV 89502
Phone: 775.348.2522
Fax: 775.348.2546

Las Vegas Laboratory
4206 Arcata Way, Suite A
Las Vegas, NV 89030
Phone: 702.657.1010
Fax: 702.657.1577

Ted Redding
Bechtel Nevada
P.O. Box 98521, M/S NTS273
Las Vegas, NV 89193-8521
TEL: 702-295-7220

RE Project: **V1635**

Order No.: **L0206374**

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There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications unless noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

/s/ Signature on file

Stan Van Wagenen 
Laboratory Manager

7/17/02
Date QC Issued

Certifications:	Reno	Las Vegas
Arizona	AZ0520	AZ0518
California	1707	2002
Idaho	Certified	Certified
Montana	Certified	Certified
Nevada	NV033	NV052
New Mexico	Certified	Certified

CLIENT: Bechtel Nevada
Work Order: L0206374
Project: V1635

ANALYTICAL QC SUMMARY REPORT

BatchID: 521

Sample ID: 020626TPHS-MB	SampType: MBLK	TestCode: 8015FFF_S	Units: mg/Kg	Prep Date: 6/28/02	Run ID: L_FID-1_020627B
	Batch ID: 521	TestNo: SW8015M		Analysis Date: 6/27/02	SeqNo: 41785
Analyte					
Gasoline Range Organics (C8-C12)	Result	PQL	SPK value	SPK Ref Val	%REC
ND	10				
Diesel Range Organics (C12-C22)		10			
Oil Range Organics (C22-C34)		50			
Total Petroleum Hydrocarbons		10			
Sur: n-Octacosane	3.333	0.010	3.33	0	100
				55	130
				0	0
Sample ID: 020626TPHS-LCS	SampType: LCS	TestCode: 8015FFF_S	Units: mg/Kg	Prep Date: 6/28/02	Run ID: L_FID-1_020627B
	Batch ID: 521	TestNo: SW8015M		Analysis Date: 6/27/02	SeqNo: 41783
Analyte					
Diesel Range Organics (C12-C22)	Result	PQL	SPK value	SPK Ref Val	%REC
148	10	166.8	0	88.7	54
Sur: n-Octacosane		3.069	0.010	3.332	92.1
				55	130
				0	0
Sample ID: 020626TPHS-LCSD	SampType: LCSD	TestCode: 8015FFF_S	Units: mg/Kg	Prep Date: 6/28/02	Run ID: L_FID-1_020627B
	Batch ID: 521	TestNo: SW8015M		Analysis Date: 6/27/02	SeqNo: 41784
Analyte					
Diesel Range Organics (C12-C22)	Result	PQL	SPK value	SPK Ref Val	%REC
129.8	10	166.9	0	77.8	54
Sur: n-Octacosane		3.17	0.010	3.333	95.1
				55	130
				148	13.1
				0	25
				0	0

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Bechtel Nevada
Work Order: L0206374
Project: V1635

ANALYTICAL QC SUMMARY REPORT

BatchID: 549

Sample ID: 020701TPHS-MB	SampType: MBLK	TestCode: 8015FFP_S	Units: mg/Kg	Prep Date: 7/1/02	Run ID: L_FID-1_020702A						
	Batch ID: 549	TestNo: SW8015M		Analysis Date: 7/2/02	SeqNo: 44124						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (C8-C12)	ND	10									
Diesel Range Organics (C12-C22)	ND	10									
Oil Range Organics (C22-C34)	ND	50									
Total Petroleum Hydrocarbons	ND	10									
Sur: n-Octacosane	3.097	0.010	3.327	0	93.1	55	130	0	0		
Sample ID: 020701TPHS-LCS	SampType: LCS	TestCode: 8015FFP_S	Units: mg/Kg	Prep Date: 7/1/02	Run ID: L_FID-1_020702A						
	Batch ID: 549	TestNo: SW8015M		Analysis Date: 7/5/02	SeqNo: 44122						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (C12-C22)	126.4	10	166.4	0	76	54	91	0	0		
Sur: n-Octacosane	3.295	0.010	3.324	0	99.1	55	130	0	0		
Sample ID: 020701TPHS-LCSD	SampType: LCS	TestCode: 8015FFP_S	Units: mg/Kg	Prep Date: 7/1/02	Run ID: L_FID-1_020702A						
	Batch ID: 549	TestNo: SW8015M		Analysis Date: 7/5/02	SeqNo: 44123						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (C12-C22)	121.1	10	166.5	0	72.7	54	91	0	0		
Sur: n-Octacosane	3.164	0.010	3.327	0	95.1	55	130	0	0		
Sample ID: L0206374-003A	SampType: MS	TestCode: 8015FFP_S	Units: mg/Kg	Prep Date: 7/1/02	Run ID: L_FID-1_020702A						
	Batch ID: 549	TestNo: SW8015M		Analysis Date: 7/6/02	SeqNo: 47298						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (C12-C22)	144.7	20	166.5	0	86.9	54	91	0	0		
Sur: n-Octacosane	3.262	0.010	3.326	0	98.1	55	130	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank
Page 2 of 3

CLIENT: Bechtel Nevada
Work Order: L0206374
Project: VI635

ANALYTICAL QC SUMMARY REPORT

BatchID: 549

Sample ID: L0206374-003A	SampType: MSD	TestCode: 8015FFP_S	Units: mg/Kg	Prep Date: 7/1/02	Run ID: L_FID-1_020702A						
	Batch ID: 549	TestNo: SW8015M		Analysis Date: 7/6/02	SeqNo: 47297						
Analyte											
Diesel Range Organics (C12-C22)	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: n-Octacosane	67.08	20	166.5	0	40.3	54	91	144.7	73.3	25	SR
	1.365	0.010	3.326	0	41	55	130	0	0	0	S

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

SAMPLE DELIVERY GROUP

V1640

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NEL LABORATORIES

Reno • Las Vegas
Phoenix • Burbank

Las Vegas Division

4208 Arcata Way, Suite A • Las Vegas, NV 89030

(702) 657-1010 • Fax: (702) 657-1577

1-888-368-3282

Ted Redding
Bechtel Nevada
P.O. Box 98521, M/S NTS273
Las Vegas, NV 89193-8521

TEL: 702-295-7220

RE Project: **V1640**

Order No.: **L0207008**

Dear Ted Redding:

NEL Laboratories, Las Vegas received 5 samples on 7/1/02 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications unless noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

/s/ Signature on file

Shawn Van Wagenen
Laboratory Manager

7/10/02

Date

Certifications:	Reno	Las Vegas
Arizona	AZ0520	AZ0518
California	1707	2002
Idaho	Certified	Certified
Montana	Certified	Certified
Nevada	NV033	NV052
New Mexico	Certified	Certified

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1640
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 326-B7-10
DATE SAMPLED: 6/20/02
NEL SAMPLE ID: L0207008-001A

Parameter	Reporting							
	Result	Unit	Limit	DF	Method	Prep Date	Analyzed	Analyst
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	07/01/02	07/05/02	PXC-LV
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	07/01/02	07/05/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	07/01/02	07/05/02	PXC-LV
Total Petroleum Hydrocarbons	ND	mg/Kg	10	1	SW8015Ext	07/01/02	07/05/02	PXC-LV
Surr: n-Octacosane	80.1	%REC	55-130	1	SW8015Ext	07/01/02	07/05/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

Date: 10-Jul-02

E - Value above quantitation range

Page 1 of 5

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1640
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 326-B7-12
DATE SAMPLED: 6/20/02
NEL SAMPLE ID: L0207008-002A

Parameter	Result	Unit	Reporting		Method	Prep Date	Analyzed	Analyst
			Limit	DF				
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	07/01/02	07/06/02	PXC-LV
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	07/01/02	07/06/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	07/01/02	07/06/02	PXC-LV
Total Petroleum Hydrocarbons	ND	mg/Kg	10	1	SW8015Ext	07/01/02	07/06/02	PXC-LV
Surr: n-Octacosane	85.1	%REC	55-130	1	SW8015Ext	07/01/02	07/06/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 10-Jul-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

Page 2 of 5

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: VI640
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 326-B7-75
DATE SAMPLED: 6/20/02
NEL SAMPLE ID: L0207008-003A

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Reporting</u>		<u>Method</u>	<u>Prep Date</u>	<u>Analyzed</u>	<u>Analyst</u>
			<u>Limit</u>	<u>DF</u>				
Diesel Range Organics (C12-C22)	ND	mg/Kg	15	1	SW8015Ext	07/01/02	07/06/02	PXC-LV
Gasoline Range Organics (C8-C12)	ND	mg/Kg	15	1	SW8015Ext	07/01/02	07/06/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	75	1	SW8015Ext	07/01/02	07/06/02	PXC-LV
Total Petroleum Hydrocarbons	ND	mg/Kg	15	1	SW8015Ext	07/01/02	07/06/02	PXC-LV
Surr: n-Octacosane	70.1	%REC	55-130	1	SW8015Ext	07/01/02	07/06/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 10-Jul-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

Page 3 of 5

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1640
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 326-B8-20
DATE SAMPLED: 6/25/02
NEL SAMPLE ID: L0207008-004A

Parameter	Reporting							
	Result	Unit	Limit	DF	Method	Prep Date	Analyzed	Analyst
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	07/01/02	07/06/02	PXC-LV
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	07/01/02	07/06/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	07/01/02	07/06/02	PXC-LV
Total Petroleum Hydrocarbons	ND	mg/Kg	10	1	SW8015Ext	07/01/02	07/06/02	PXC-LV
Surr: n-Octacosane	92.1	%REC	55-130	1	SW8015Ext	07/01/02	07/06/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 10-Jul-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

Page 4 of 5

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V1640
PROJECT #: 30033
MATRIX: SOIL

CLIENT ID: 326-B9-30
DATE SAMPLED: 6/26/02
NEL SAMPLE ID: L0207008-005A

Parameter	Reporting							
	Result	Unit	Limit	DF	Method	Prep Date	Analyzed	Analyst
Diesel Range Organics (C12-C22)	ND	mg/Kg	10	1	SW8015Ext	07/01/02	07/06/02	PXC-LV
Gasoline Range Organics (C8-C12)	ND	mg/Kg	10	1	SW8015Ext	07/01/02	07/06/02	PXC-LV
Oil Range Organics (C22-C34)	ND	mg/Kg	50	1	SW8015Ext	07/01/02	07/06/02	PXC-LV
Total Petroleum Hydrocarbons	ND	mg/Kg	10	1	SW8015Ext	07/01/02	07/06/02	PXC-LV
Surr: n-Octacosane	95.1	%REC	55-130	1	SW8015Ext	07/01/02	07/06/02	PXC-LV

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

Date: 10-Jul-02

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

Page 5 of 5

JULY 17 '97

7/7

1997/07/17
Quote 200 (B/C)**Bechtel Nevada****ANALYTICAL LABORATORY
SERVICES REQUEST & CHAIN OF CUSTODY RECORD**Page 1 of 1

PROJECT/CLIENT INFORMATION		REPORT & TURNAROUND INFORMATION						SAMPLE INFORMATION				
Project: CAU 326	BN Org #: A435	Send Report to: Michael J. Kruze						Sampling Site: CAU 326				
Charge Number: 5HC98223		Phone: 702-295-7396	Fax: 702-295-7761	M/S: M/S 306	The samples submitted contain (check):							
Project Manager: Jeff Smith		Turnaround: <input checked="" type="checkbox"/> Standard - 14 days IH, 20 days Non-rad Env, 45 Days Rad Env, <input type="checkbox"/> Rush Preliminary by: (90)						<input type="checkbox"/> Hazardous (list) -				
Phone: 295-7175 Fax: 295-7161 M/S:		<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 7 <input type="checkbox"/> 14 (non-Rad Env)						<input type="checkbox"/> Radioactive (list) -				
		<input type="checkbox"/> 1 <input type="checkbox"/> 7 <input type="checkbox"/> 14 <input type="checkbox"/> 28 (Radiological Env)						<input type="checkbox"/> Unknown contamination.				
								If known, identify contaminants.				
								This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.				
SAMPLE MANAGEMENT INFORMATION								Pay Item, Analysis, Method				
SDG: <u>VI640</u> (IH) <u>VI640</u> (Non-Rad Env) <u>VI640</u> (Rad Env)								10.21				
Samples submitted are associated with a signed Project SOW <input type="checkbox"/> Yes <input type="checkbox"/> No												
Analyses entered here agree with the SOW <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A												
If not, identify the variation:												
Subcontract Lab(s) used for this work: <u>NEC</u>												
ID/DESCRIPTION	SAMPLING		MATRIX	CONTAINER		QC		Pres - Analysis eg. HCl - VOCs	TPH - Diesel/oil			
	DATE	TIME		#	Est. Vol	MD	MS			MSD		
01 326-B7-10	6-20-02	0945	Soil	1	250-mL	MS	MSD		X			
02 326-B7-12	6-20-02	0950	Soil	1					X			
03 326-B7-15	6-20-02	15:31	Soil	1					X			
04 326-B8-20	6-25-02	15:35	Soil	1					X			
05 326-B9-30	6-26-02	11:40	Soil	1	↓		↓		X			
<i>EE</i>												
CUSTODY TRANSFER												
Sampled/Relinquished (print)	Signature		Date/Time	Received by (print)			Signature		Date/Time			
<u>Michael Kruze</u>	<u>/s/ Signature on file</u>		<u>6-27-02 0931</u>	<u>CA CASTANEDA</u>			<u>/s/ Signature on file</u>		<u>6/27/02 0931</u>			
<u>CA CASTANEDA</u>	<u>/s/ Signature on file</u>		<u>7/01/02 01300</u>	<u>B&I COURIER</u>			<u>/s/ Signature on file</u>		<u>7/01/02 01300</u>			
<u>ML PERKES</u>	<u>/s/ Signature on file</u>		<u>7/01/02 01345</u>	<u>Spencer Price</u>			<u>/s/ Signature on file</u>		<u>7/1/02 6:45</u>			
Retention Code: ENV 5.c(1)												
BN-0732 (04/02)												

NEL LABORATORIES

**Corporate Headquarters /****Reno Laboratory**

4750 Longley Lane, Suite 106

Reno, NV 89502

Phone: 775.348.2522

Fax: 775.348.2546

Las Vegas Laboratory

4208 Arcata Way, Suite A

Las Vegas, NV 89030

Phone: 702.657.1010

Fax: 702.657.1577

Ted Redding
Bechtel Nevada
P.O. Box 98521, M/S NTS273
Las Vegas, NV 89193-8521

TEL: 702-295-7220

RE Project: V1640

Order No.: L0207008

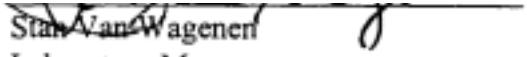
Dear Ted Redding:

NEL Laboratories, Las Vegas received 5 samples on 7/1/02 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications unless noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

/s/ Signature on file


Stan Van Wagenen
Laboratory Manager

7/17/02
Date Issued QC

Certifications:	Reno	Las Vegas
Arizona	AZ0520	AZ0518
California	1707	2002
Idaho	Certified	Certified
Montana	Certified	Certified
Nevada	NV033	NV052
New Mexico	Certified	Certified

Albuquerque
866.360.5726

Boise
800.200.2952

Las Vegas
888.368.3282

Phoenix
888.238.2514

Reno
800.368.5221

Sacramento
800.368.5221

CLIENT: Bechtel Nevada
 Work Order: L0207008
 Project: V1640

ANALYTICAL QC SUMMARY REPORT

BatchID: 549

Sample ID: 020701TPHS-MB	SampType: MBLK	TestCode: 8015FFF_S	Units: mg/Kg	Prep Date: 7/1/02	Run ID: L_FID-1_020702A						
	Batch ID: 549	TestNo: SW8015M		Analysis Date: 7/2/02	SeqNo: 44124						
Analyte											
Gasoline Range Organics (C8-C12)	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
ND	10										
Diesel Range Organics (C12-C22)		ND	10								
Oil Range Organics (C22-C34)		ND	50								
Total Petroleum Hydrocarbons		ND	10								
Sum: n-Octacosane	3.097	0.010	3.327	0	93.1	55	130	0	0	0	
Sample ID: 020701TPHS-LCS	SampType: LCS	TestCode: 8015FFF_S	Units: mg/Kg	Prep Date: 7/1/02	Run ID: L_FID-1_020702A						
	Batch ID: 549	TestNo: SW8015M		Analysis Date: 7/5/02	SeqNo: 44122						
Analyte											
Diesel Range Organics (C12-C22)	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
126.4	10	166.4	0	76	54	91	0	0	0	0	
Sum: n-Octacosane	3.295	0.010	3.324	0	99.1	55	130	0	0	0	
Sample ID: 020701TPHS-LCSD	SampType: LCS	TestCode: 8015FFF_S	Units: mg/Kg	Prep Date: 7/1/02	Run ID: L_FID-1_020702A						
	Batch ID: 549	TestNo: SW8015M		Analysis Date: 7/5/02	SeqNo: 44123						
Analyte											
Diesel Range Organics (C12-C22)	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
121.1	10	166.5	0	72.7	54	91	0	0	0	0	
Sum: n-Octacosane	3.164	0.010	3.327	0	95.1	55	130	0	0	0	
Sample ID: L0206374-003A	SampType: MS	TestCode: 8015FFF_S	Units: mg/Kg	Prep Date: 7/1/02	Run ID: L_FID-1_020702A						
	Batch ID: 549	TestNo: SW8015M		Analysis Date: 7/6/02	SeqNo: 47298						
Analyte											
Diesel Range Organics (C12-C22)	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
144.7	20	166.5	0	86.9	54	91	0	0	0	0	
Sum: n-Octacosane	3.262	0.010	3.326	0	98.1	55	130	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

CLIENT: Bechtel Nevada
Work Order: L0207008
Project: V1640

ANALYTICAL QC SUMMARY REPORT

BatchID: 549

Sample ID: L0206374-003A	SampType: MSD	TestCode: 8015FFF_S	Units: mg/Kg	Prep Date: 7/1/02	Run ID: L_FID-1_020702A
	Batch ID: 549	TestNo: SW8015M		Analysis Date: 7/6/02	SeqNo: 47297
Analyte					
Diesel Range Organics (C12-C22)	Result	PQL	SPK value	SPK Ref Val	%REC
	67.08	20	166.5	0	40.3
Surr: n-Octacosane		0.010	3.326	0	41
				54	91
				55	130
				144.7	144.7
				0	73.3
					25
					0
					SR
					S

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

APPENDIX C
USE RESTRICTION DOCUMENTATION

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CAU Use Restriction Information

CAU Number/Description: CAU 326: Area 6 and 27 Release Sites, Nevada Test Site, Nevada

Applicable CAS Numbers/Descriptions: CAS 06-25-01: CP-1 Heating Oil Release / Heating Oil release associated with broken feed and return pipelines running from Tank 6-CP-1 to Building CP-1 in Area 6 CP.

Contact (organization/project): NNSA/NV Industrial Sites Project Manager

Surveyed Area (UTM coordinates, Zone 11, NAD 27): Three areas around the feeder and return pipelines were surveyed for use restriction.

Area Inside CP fenced compound from the north west corner and moving clockwise:

NW corner: 4,087,847.009 m N, 584,310.243 m E
 N. Point 1: 4,087,847.188 m N, 584,324.116 m E
 N. Point 2: 4,087,838.228 m N, 584,334.606 m E
 NE corner: 4,087,837.982 m N, 584,368.923 m E
 SE corner: 4,087,827.594 m N, 584,369.000 m E
 S. Point 1: 4,087,827.955 m N, 584,334.497 m E
 S. Point 2: 4,087,837.182 m N, 584,324.988 m E
 SW corner: 4,087,836.648 m N, 584,309.977 m E

Area in parking lot west of Building CP-70, site of original pipeline break

NW corner: 4,087,836.511 m N, 584,399.978 m E
 NE corner: 4,087,835.570 m N, 584,444.461 m E
 SE corner: 4,087,825.222 m N, 584,445.108 m E
 SW corner: 4,087,826.235 m N, 584,400.331 m E

Area covering break in southern pipeline, south of the parking lot, north of the CP access road.

NW corner: 4,087,791.385 m N, 584,414.991 m E
 NE corner: 4,087,790.554 m N, 584,420.998 m E
 SE corner: 4,087,781.988 m N, 584,419.358 m E
 SW corner: 4,087,783.001 m N, 584,413.405 m E

Survey Date 08/14/2002 **Survey Method (GPS, etc.)** Transit Survey **Datum** NAD 1927

Site Monitoring Requirements: NONE

Monitoring Frequency (quarterly, annually?): N/A

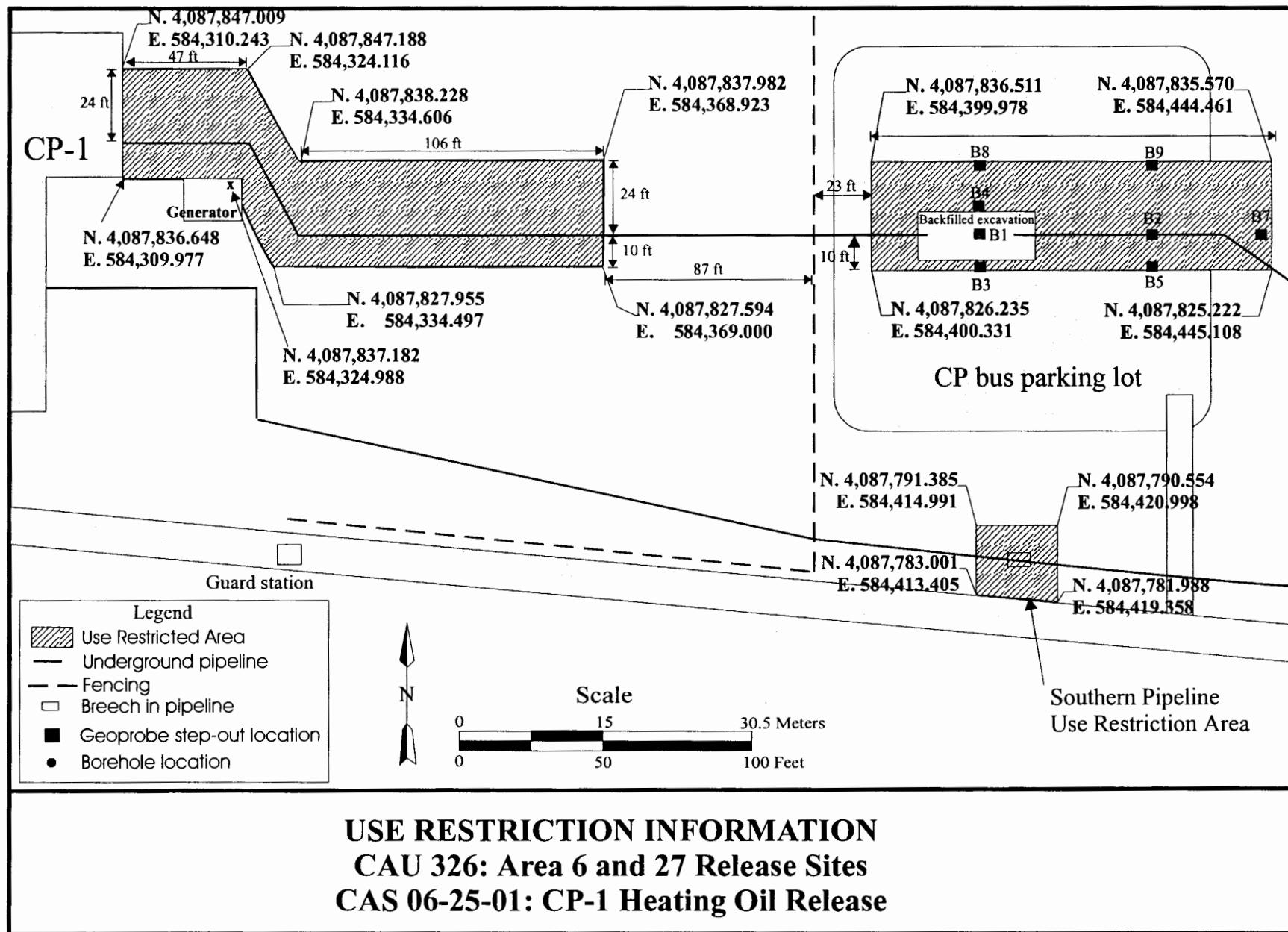
Use Restrictions

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Comments: Petroleum hydrocarbons (heating oil) are present in the soil at the locations in the above surveyed locations and where identified in the associated drawing. Advance approval must be obtained from NNSA/NV Industrial Sites group (phone number 295-0461) prior to any subsurface activities at these locations, including routine maintenance, repair, or other activities. Emergencies are the only exception to obtaining advance approval, and notification should be provided to NNSA/NV Industrial Sites group when emergency activities are required. Refer to the *Closure Report for Corrective Action Unit 326: Areas 6 and 27 Release Sites, Nevada Test Site, Nevada*, DOE/NV--859, October 2002, for additional information on conditions at the site.

Submitted By: /s/ Signature on file _____ Date: 12/19/02

Attachments: Site diagram showing survey locations and coordinates.



CAU Use Restriction Information

CAU Number/Description: CAU 326: Area 6 and 27 Release Sites, Nevada Test Site, Nevada

Applicable CAS Numbers/Descriptions: CAS 06-25-02: UST Release / Fuel spill associated with filling underground storage tank, Tank 6-DAF-5 located west of Building 500 at the Area 6 DAF facility.

Contact (organization/project): NNSA/NV Industrial Sites Project Manager

Surveyed Area (UTM coordinates, Zone 11, NAD 27):

Area of fuel release located about Tank 6-DAF-5 fill port

NW corner: 4,083,700.850 m N, 584,977.075 m E

NE corner: 4,083,697.961 m N, 584,982.613 m E

SE corner: 4,083,692.489 m N, 584,979.897 m E

SW corner: 4,083,695.340 m N, 584,974.165 m E

Survey Date 08/15/2002 **Survey Method (GPS, etc.)** Transit Survey **Datum** NAD 1927

Site Monitoring Requirements: NONE

Monitoring Frequency (quarterly, annually?): N/A

Use Restrictions

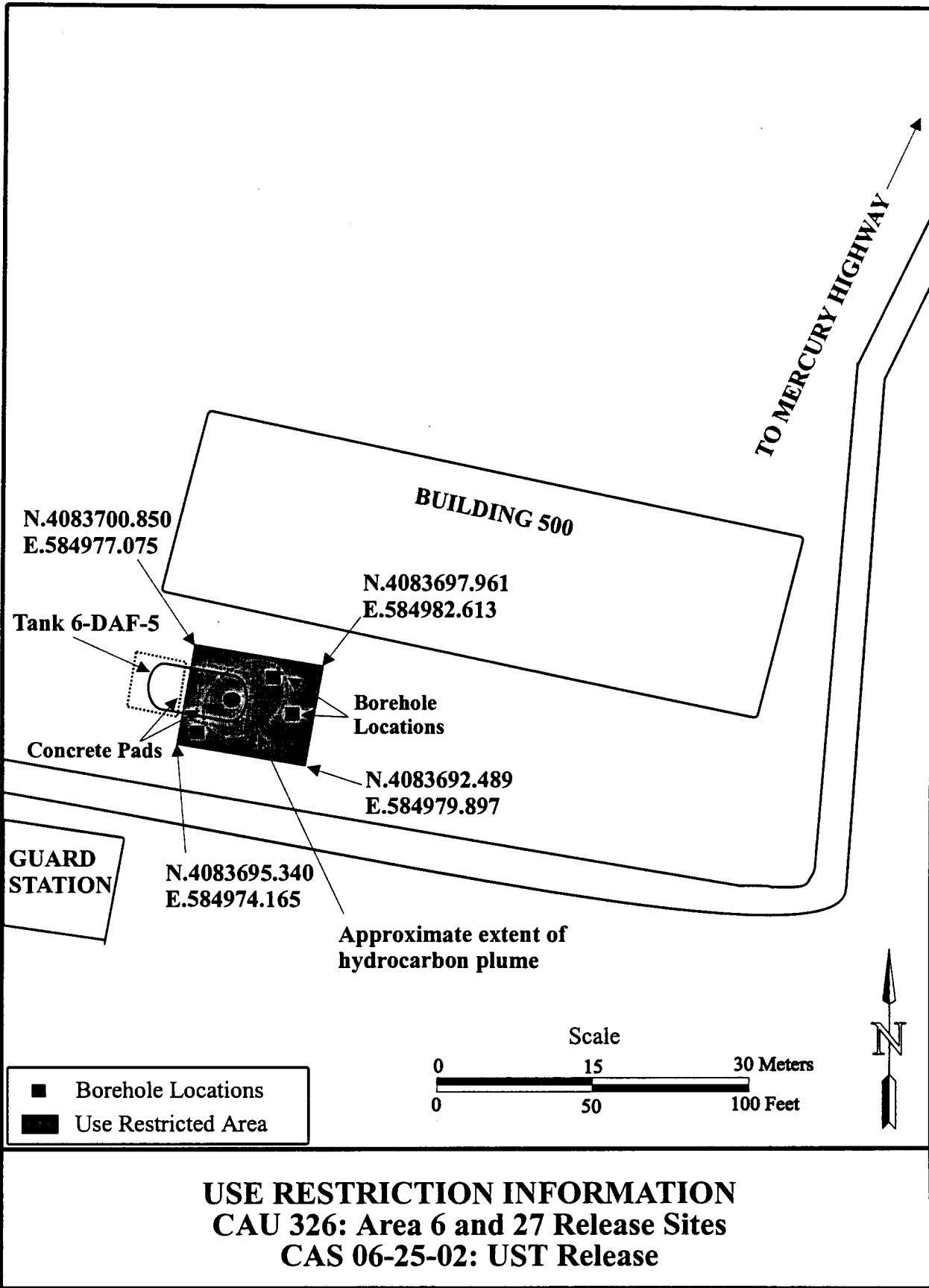
The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

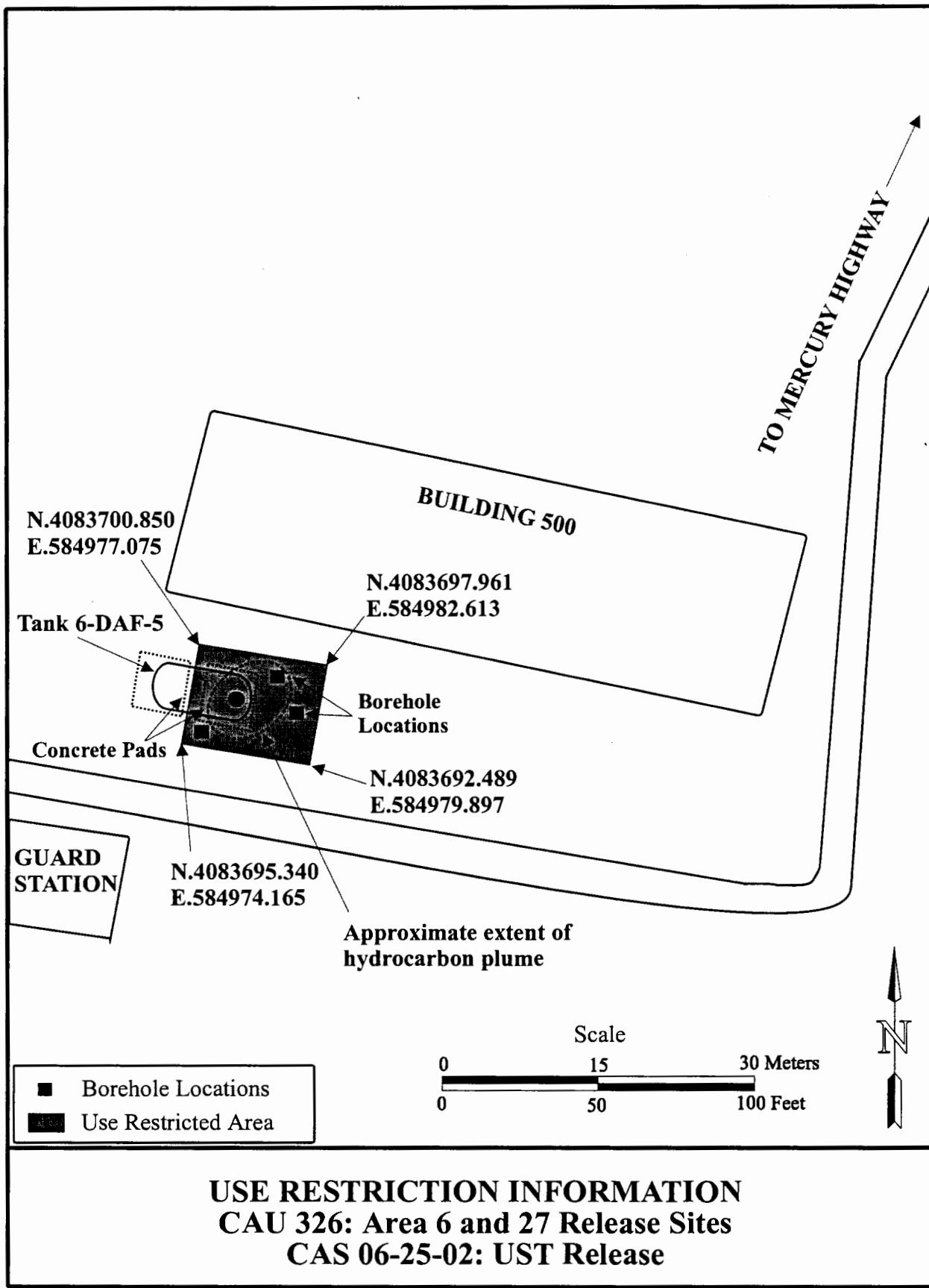
Comments: Petroleum hydrocarbons (heating oil) are present in the soil at the locations in the above surveyed locations and where identified in the associated drawing. Advance approval must be obtained from NNSA/NV Industrial Sites group (phone number 295-0461) prior to any subsurface activities at these locations, including routine maintenance, repair, or other activities. Emergencies are the only exception to obtaining advance approval, and notification should be provided to NNSA/NV Industrial Sites group when emergency activities are required. Refer to the Closure Report for Corrective Action Unit 326: Areas 6 and 27 Release Sites, Nevada Test Site, Nevada, DOE/NV--859, October 2002, for additional information on conditions at the site.

Submitted By: /s/ Signature on file

Date: 12/19/02

Attachments: Site diagram showing survey locations and coordinates.





APPENDIX D

WASTE DISPOSITION DOCUMENTATION

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Waste Management System - [Sanitation Module]

3 Action Edit Block Field Record Query Window Help

-18 x

-18-

SOLID WASTE TRACKING SYSTEM

If you Save data, a report on records that have been changed today will be printed to your default printer when you Exit.

Bechtel Nevada | [<<](#) | [<](#) | [>](#) | [>>](#) | [Query](#) | [Save](#) | [Exit](#) | **Bechtel Nevada**

Count "3

SOLID WASTE TRACKING SYSTEM

Landfill ID	Date Of Receipt	Waste Category	Type Of Waste	EM or Routine or DP Clean-up		Weight Pounds	Area No.	Building No.	Origin Of Waste	
				EM	CLEAN-UP				Comments	
AREA 6	02-JUL-2002	I	FFACO-ONSITE	EM	CLEAN-UP	4500	06	CAU326	Comments	
AREA 9	17-JUN-2002	I	FFACO-ONSITE	EM	CLEAN-UP	43000	27	CAU326	Comments	
AREA 9	17-JUN-2002	I	FFACO-ONSITE	EM	CLEAN-UP	45000	27	CAU326	Comments	
AREA 9	17-JUN-2002	I	FFACO-ONSITE	EM	CLEAN-UP	44000	27	CAU326	Comments	
AREA 9	17-JUN-2002	I	FFACO-ONSITE	EM	CLEAN-UP	44000	27	CAU326	Comments	
AREA 9	14-JUN-2002	I	FFACO-ONSITE	EM	CLEAN-UP	25000	27	CAU326	Comments	
AREA 9	13-JUN-2002	I	FFACO-ONSITE	EM	CLEAN-UP	42000	27	CAU326	Comments	
AREA 9	13-JUN-2002	I	FFACO-ONSITE	EM	CLEAN-UP	39000	27	CAU326	Comments	
AREA 9	13-JUN-2002	I	FFACO-ONSITE	EM	CLEAN-UP	38000	27	CAU326	Comments	
AREA 9	13-JUN-2002	I	FFACO-ONSITE	EM	CLEAN-UP	41000	27	CAU326	Comments	

If you **Save** data, a report on records that have been changed today will be printed to your default printer when you **Exit**.

Bechtel Nevada

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Bechtel Nevada

SOLID WASTE TRACKING SYSTEM

Landfill ID	Date Of Receipt	Waste Category	Type Of Waste	Origin Of Waste				Comments
				EM or DP	Clean-up	Weight Pounds	Area No.	
AREA 9	13-JUN-2002	I	FFACO-ONSITE	EM	CLEAN UP	38000	27	CAU326
AREA 9	13-JUN-2002	I	FFACO-ONSITE	EM	CLEAN UP	41000	27	CAU326
AREA 9	12-JUN-2002	I	FFACO-ONSITE	EM	CLEAN-UP	32000	27	CAU326
AREA 9	12-JUN-2002	I	FFACO-ONSITE	EM	CLEAN-UP	39000	27	CAU326
AREA 9	12-JUN-2002	I	FFACO-ONSITE	EM	CLEAN-UP	36000	27	CAU326
AREA 9	12-JUN-2002	I	FFACO-ONSITE	EM	CLEAN-UP	38000	27	CAU326
AREA 9	12-JUN-2002	I	FFACO-ONSITE	EM	CLEAN-UP	34000	27	CAU326
AREA 9	26-MAR-2002	I	FFACO-ONSITE	EM	CLEAN-UP	32000	27	CAU326
AREA 9	26-MAR-2002	I	FFACO-ONSITE	EM	CLEAN-UP	29000	27	CAU326
AREA 23	07-FEB-2002	I	NTS	EM	CLEAN-UP	9500	27	CAU326

See previous page

If you Save data, a report on records that have been changed today will be printed to your default printer when you Exit.

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Bechtel Nevada

Count: 18

LANDFILL DAILY ACCESS REGISTER

CY 2/11/02 QC Form 415102

DATE: 2-7-02

(check one)

 Area 9 - U10c Area 6 Hydrocarbon Area 23 Landfill

WASTE GENERATOR Name, Phone #	WASTE ORIGIN Area, Building	WASTE CODE*	TICKET NUMBER	NET WEIGHT (lbs)	TIME IN	TIME OUT	DRIVER Last Name, Initials
B.N.C.	A-27	C	1	19,500	9:30	9:45	Zy-D
BN	A-35 NLH						
BN	A35 RSL	NP	2	500	930	945	MC M/
B.N.	A-23	NP	11738	25820	15:30	16:15	Bickford D
BN	A-24-PA70011	C	est	1400	3:45	4:00	Smith B
BN	A-6 & A-23	P	11739	1200	15:30	16:05	Jones, J.

*Waste Codes: ASB - Asbestos; C - Construction; H - Hydrocarbon; P - Putrescible; NP - Non-Putrescible; S - Sewage Sludge; F - FFACO

INSPECTION INFORMATION

Site Conditions:

Do berms/walls need repair? No Yes

Does cover need repair /

evidence of settling? No YesDoes fence need repair? No YesDoes road(s) need repair? No YesHas litter accumulated? No YesHas water accumulated? No Yes

Corrective Actions Needed:

Corrective Actions Taken: (description, name, date):

INSPECTED BY
(date/time): /s/ Signature on file 2-7-02

7250

Random Load Inspection: Ticket Number: 2

 No prohibited waste was found Yes, the prohibited waste(s) identified below were found. Putrescible waste (prohibited in U10c and Area 6 Landfills). Hazardous waste per NAC 444.580 PCB waste regulated by TSCA Waste containing free liquids TSCA-regulated Waste failing the "no added radioactivity" per the POC requirement. Friable asbestos (prohibited in U10c and Area 6 Landfills) Hydrocarbon soil at >100 ppm TPH (prohibited in 23, allowed in U10c provided less than 50 cubic yards/week are disposed)

Corrective Actions Taken: (description, name, date, who notified):

INSPECTED BY (date/time): /s/ Signature on file

2/7/02 11:10

Bachtel Nevada**NTS Landfill Load Verification**

(Waste definitions are available on page 2)

SWO USE (Circle One Area) AREA**23****6****9****LANDFILL**

For waste characterization, approval, and/or assistance, contact Solid Waste Operation (SWO) at 5-7898.

REQUIRED: WASTE GENERATOR INFORMATION

(This form is for rolloffs, dump trucks, and other onsite disposal of materials.)

Waste Generator: Environmental Restoration, Don CoxPhone Number: 5-5576Location / Origin: Area 27, Site Maintenance Yard, CAU 326

Waste Category: (check one)

 Commercial Industrial

Waste Type: (check one)

 NTS Putrescible FFACQ-onsite WAC Exception Non-Putrescible Asbestos Containing Material FFACQ-offsite Historic DOE/NV

Pollution Prevention Category: (check one)

 Environmental management Defense Projects

Pollution Prevention Category: (check one)

 Clean-Up Routine

Method of Characterization: (check one)

 Sampling & Analysis Process Knowledge ContentsProhibited Waste at all three NTS landfills: Radioactive waste; RCRA waste; Hazardous waste; Free liquids, PCBs above TSCA regulatory levels, and Medical wastes (needles, sharps, bloody clothing).Additional Prohibited Waste Sewage Sludge; Animal carcasses; Wet garbage (food waste); and Friable asbestos at the Area 9 U10c Landfill;**REQUIRED: WASTE CONTENTS ALLOWABLE WASTES**

Check all allowable wastes that are contained within this load:

NOTE: Waste disposed at the Area 6 Hydrocarbon Landfill must have come into contact with petroleum hydrocarbons or co-products such as: gasoline (no benzene, lead); jet fuel; diesel fuel; lubricants and hydraulics; kerosene; asphaltic petroleum hydrocarbon; and ethylene glycol.

Acceptable waste at any NTS landfill:

 Paper Rocks / Unaltered geologic materials Empty containers Asphalt Metal Wood Soil Rubber (excluding tires) Demolition debris Plastic Wire Cable Cloth Insulation (non-Asbestosform) Cement & concrete Manufactured items: (swamp coolers, furniture, rugs, carpet, electronic components, PPE, etc.)Additional waste accepted at the Area 23 Mercury Landfill: Office waste Food Waste Animal Carcasses Asbestos: Friable Non-Friable (contact SWO if regulated load) Quantity: _____

Additional waste accepted at the Area 9 U10c Landfill:

 Non-friable asbestos Drained automobiles and military vehicles Solid fractions from sand/oil/water separators Light ballasts (contact SWO) Drained fuel filters (gas & diesel) Deconned Underground and Above Ground Hydrocarbons (contact SWO) Tanks

Additional waste accepted at the Area 6 Hydrocarbon Landfill:

 Septic sludge Drained fuel filters (gas & diesel) Crushed non-ferrous plated oil filters Plants Sludge from sand/oil/water separators PCBs below 50 parts per million**REQUIRED: WASTE GENERATOR SIGNATURE**

Initials: _____ (If initialed, no radiological clearance is necessary.)

The above mentioned waste was generated outside of a Controlled Waste knowledge, does not contain radiological materials.

To the best of my knowledge, the waste described above contains only the site. I have verified this through the waste characterization method /identif prohibited and allowable waste items.

Print Name: Donald H. CoxSignature: /s/ Donald CoxDate: 10 JAN. 02**Radiation Survey Release for Waste Disposal**

RCT Initials

 This container/load is free of external radioactive contamination. This container/load is exempt from survey due to process knowledge and origin. This container/load is free of radioactive contamination based on analysis.SIGNATURE /s/ Signature on file DATE 2-5-02

BN-0846 (09/99)

Note: Food waste, office trash and/or animal carcasses are considered not to contain added radioactivity, and therefore do not require a radiological clearance.

SWO USE ONLYLoad Weight (net from scale or estimate): 19,502Signature of Certifier: /s/ Signature on file

BN-0818 (09/99)

LANDFILL DAILY ACCESS REGISTER

3-26-02

(check one)

Area 9 - U10c

Area 6 Hydrocarbon

Area 23 Landfill

WASTE GENERATOR Name, Phone #	WASTE ORIGIN Area, Building	WASTE CODE ²	TICKET NUMBER	NET WEIGHT (lbs)	TIME IN	TIME OUT	DRIVER Last Name, Initials
B/N	23	C	10	22,000	11:45	1:00	Hagan Jnic. ✓
A-23 BN	23	C	11	17,000	1:30	1:45	TULLARDY C ✓
ER. Dan Cox	A-273MY CAU326	C	12	32,000	1:40	2:10	Kaczay R. ✓
BN	A-23	C	13	15,500	1:45	2:00	Hoff P ✓
BN	A-3	C	14	22,000	14:5	2:00	V. G. ✓
BN	A-23	C	15	33,200	2:15	2:30	Hoff J. S. ✓
BN	A-3	C	16	27,500	2:30	3:40	V. G. ✓
BN	A-3	C	17	16,000	3:20	3:35	J. C. ✓
ER. Dan Cox	A-273MY CAU326	C	18	29,000	3:35	3:55	Kaczay R. ✓

*Waste Codes: ASB - Asbestos; C - Construction; H - Hydrocarbon; P - Putrescible; NP - Non-Putrescible; S - Sewage Sludge; F - FFACO

INSPECTION INFORMATION

Site Conditions:

Do berms/walls need repair? No Yes

Does cover need repair /
evidence of settling? No Yes

Does fence need repair? No Yes

Does road(s) need repair? No Yes

Has litter accumulated? No Yes

Has water accumulated? No Yes

Corrective Actions Needed:

Corrective Actions Taken: (description, name, date):

INSPECTED BY
(date/time):

Random Load Inspection: Ticket Number:

No prohibited waste was found

Yes, the prohibited waste(s) identified below were found.

Putrescible waste (prohibited in U10c and Area 6 Landfills).

Hazardous waste per NAC 444.580

PCB waste regulated by TSCA

Waste containing free liquids

TSCA-regulated

Waste failing the "no added radioactivity" per the POC requirement.

Friable asbestos (prohibited in U10c and Area 6 Landfills)

Hydrocarbon soil at >100 ppm TPH (prohibited in 23, allowed in U10c provided less than 50 cubic yards/week are disposed)

Corrective Actions Taken: (description, name, date, who notified):

INSPECTED BY (date/time):

SWO USE (Circle One Area) AREA

23

6

9

LANDFILL

For waste characterization, approval, and/or assistance, contact Solid Waste Operation (SWO) at 5-7898.

REQUIRED: WASTE GENERATOR INFORMATION

(This form is for rolloffs, dump trucks, and other onsite disposal of materials.)

Waste Generator: Environmental Restoration, Don Cox Phone Number: 5-5576

Location / Origin: Area 27, Site Maintenance Yard, CAU 326

Waste Category: (check one) Commercial Industrial *CS 6/2/02*Waste Type: NTS Putrescible FFACO-onsite WAC Exception
(check one) Non-Putrescible Asbestos Containing Material FFACO-offsite Historic DOE/INVPollution Prevention Category: (check one) Environmental management Defense ProjectsPollution Prevention Category: (check one) Clean-Up RoutineMethod of Characterization: (check one) Sampling & Analysis Process Knowledge Contents

Prohibited Waste: Radioactive waste; RCRA waste; Hazardous waste; Free liquids, PCBs above TSCA regulatory levels-, and Medical at all three NTS landfills: wastes (needles, sharps, bloody clothing).

Additional Prohibited Waste: Sewage Sludge; Animal carcasses-, Wet garbage (food waste); and Friable asbestos at the Area 9 U10c Landfill:

REQUIRED: WASTE CONTENTS ALLOWABLE WASTES

Check all allowable wastes that are contained within this load:

NOTE: Waste disposed at the Area 6 Hydrocarbon Landfill must have come into contact with petroleum hydrocarbons or coolants such as: gasoline (no benzene, lead); jet fuel; diesel fuel; lubricants and hydraulics; kerosene; asphaltic petroleum hydrocarbon; and ethylene glycol.

Acceptable waste at any NTS landfill: Paper Rocks / unaltered geologic materials Empty containers
 Asphalt Metal Wood Soil Rubber (excluding tires) Demolition debris
 Plastic Wire Cable Cloth Insulation (non-Asbestosiform) Cement & concrete
 Manufactured items: (swamp coolers, furniture, rugs, carpet, electronic components, PPE, etc.)Additional waste accepted at the Area 23 Mercury Landfill: Office waste Food Waste Animal Carcasses Asbestos: Friable Non-Friable (contact SWO if regulated load) Quantity:

Additional waste accepted at the Area 9 U10c Landfill:

 Non-friable asbestos Drained automobiles and military vehicles Solid fractions from sand/oil/water separators
 Light ballasts (contact SWO) Drained fuel filters (gas & diesel) Deconned Underground and Above Ground
 Hydrocarbons (contact SWO) Sludge from sand/oil/water separators Tanks

Additional waste accepted at the Area 6 Hydrocarbon Landfill:

 Septic sludge Rags Drained fuel filters (gas & diesel) Crushed non-ferme plated oil filters
 Plants Sludge from sand/oil/water separators PCBs below 50 parts per million

REQUIRED: WASTE GENERATOR SIGNATURE

Initials: _____ (If initialed, no radiological clearance is necessary.)

The above mentioned waste was generated outside of a Controlled Waste knowledge, does not contain radiological materials.

To the best of my knowledge, the waste described above contains only site. I have verified this through the waste characterization method identified prohibited and allowable waste items.

Print Name: Donald H. Cox

Signature: */s/ Donald Cox*Date: *26 MAR 02*

Note: Food waste, office trash and/or animal carcasses are considered not to contain added radioactivity, and therefore do not require a radiological clearance.

SWO USE ONLY

Load Weight (net from scale or estimate): *29,000* Signature of Certifier: */s/ Signature on file*

Radiation Survey Release for Waste Disposal

RCT Initials

 This container/load is free of external radioactive contamination. This container/load is exempt from survey due to process knowledge and origin. This container/load is free of radioactive contamination based on radioanalysis.SIGNATURE: */s/ Signature on file* DATE: *7-27-02*
BN-0918 (09/00)

DATE: 3-27-02

(check one) Area 9 - U10c Area 6 Hydrocarbon Area 23 Landfill

WASTE GENERATOR Name, Phone #	WASTE ORIGIN Area, Building	WASTE CODE*	TICKET NUMBER	NET WEIGHT (lbs)	TIME IN	TIME OUT	DRIVER Last Name, Initials
BHN	A-23	C	4	22,000	9:20	9:30	HAGER J-S-10
BN	A-23	C	2	17,000	9:05	9:15	TOLLADAY C
BN	A-23	C	3	18,000	9:10	9:20	HOLLIS P
BN	A-23	C	4	10,190	9:20	9:30	HUNTER R 11,000 lbs (95.9125/02)
BHN	A-23	C	5	32,600	9:30	9:35	EDDIE E
BHN	(A-23) TR Sew spuds	C	6	15,000	11:00	11:15	EDDIE E
BN	A-27	C	7	30,000	11:15	11:30	SMITH B.L.
ER Der Cox	A27SM4CA0326	C	8	27,000	11:20	11:45	KACZAK K
BN	A-23	C	9	13,500	12:55	1:05	HOLLIS P

*Waste Codes: ASB - Asbestos; C - Construction; H - Hydrocarbon; P - Putrescible; NP - Non-Putrescible; S - Sewage Sludge; F - FFACO

INSPECTION INFORMATION

Site Conditions:

Do berms/walls need repair? No Yes

Does cover need repair /

evidence of settling? No YesDoes fence need repair? No YesDoes road(s) need repair? No YesHas litter accumulated? No YesHas water accumulated? No Yes

Corrective Actions Needed:

Corrective Actions Taken: (description, name, date):

Random Load Inspection: Ticket Number: _____

No prohibited waste was found

Yes, the prohibited waste(s) identified below were found.

- Putrescible waste (prohibited in U10c and Area 6 Landfills).
- Hazardous waste per NAC 444.580
- PCB waste regulated by TSCA
- Waste containing free liquids
- TSCA-regulated
- Waste failing the "no added radioactivity" per the POC requirement.
- Friable asbestos (prohibited in U10c and Area 6 Landfills)
- Hydrocarbon soil at >100 ppm TPH (prohibited in 23, allowed in U10c provided less than 50 cubic yards/week are disposed)

Corrective Actions Taken: (description, name, date, who notified):

INSPECTED BY
(date/time):

INSPECTED BY (date/time):

Bechtel Nevada**NTS Landfill Load Verification**

(Waste definitions are available on page 2)

SWO USE (Circle One Area) AREA**23****6****9****LANDFILL**

For waste characterization, approval, and/or assistance, contact Solid Waste Operation (SWO) at 5-7898.

REQUIRED: WASTE GENERATOR INFORMATION

(This form is for rolloffs, dump trucks, and other onsite disposal of materials.)

Waste Generator: Environmental Restoration, Don Cox

Phone Number: 5-5576

Location / Origin: Area 27, Site Maintenance Yard, CAU 326

Waste Category: (check one)	<input type="checkbox"/> Commercial	<input checked="" type="checkbox"/> Industrial		
Waste Type: (check one)	<input checked="" type="checkbox"/> NTS	<input type="checkbox"/> Putrescible	<input type="checkbox"/> FFACO-onsite	<input type="checkbox"/> WAC Exception
	<input type="checkbox"/> Non-Putrescible	<input type="checkbox"/> Asbestos Containing Material	<input type="checkbox"/> FFACO-offsite	<input type="checkbox"/> Historic DOE/NV
Pollution Prevention Category: (check one)	<input checked="" type="checkbox"/> Environmental management		<input type="checkbox"/> Defense Projects	
Pollution Prevention Category: (check one)	<input checked="" type="checkbox"/> Clean-Up		<input type="checkbox"/> Routine	
Method of Characterization: (check one)	<input type="checkbox"/> Sampling & Analysis	<input checked="" type="checkbox"/> Process Knowledge	<input type="checkbox"/> Contents	

Prohibited Waste: Radioactive waste; RCRA waste; Hazardous waste; Free liquids, PCBs above TSCA regulatory levels-, and Medical wastes (needles, sharps, bloody clothing).

Additional Prohibited Waste: Sewage Sludge; Animal carcasses-, Wet garbage (food waste); and Friable asbestos at the Area 9 U10c Landfill:

REQUIRED: WASTE CONTENTS ALLOWABLE WASTES

Check all allowable wastes that are contained within this load:

NOTE: Waste disposed at the Area 6 Hydrocarbon Landfill must have come into contact with petroleum hydrocarbons or coolants such as: gasoline (no benzene, lead); jet fuel; diesel fuel; lubricants and hydraulics; kerosene; asphaltic petroleum hydrocarbon; and ethylene glycol.

Acceptable waste at any NTS landfill:	<input type="checkbox"/> Paper	<input type="checkbox"/> Rocks / unaltered geologic materials	<input type="checkbox"/> Empty containers		
<input type="checkbox"/> Asphalt	<input type="checkbox"/> Metal	<input type="checkbox"/> Wood	<input checked="" type="checkbox"/> Soil	<input type="checkbox"/> Rubber (excluding tires)	<input type="checkbox"/> Demolition debris
<input checked="" type="checkbox"/> Plastic	<input type="checkbox"/> Wire	<input type="checkbox"/> Cable	<input type="checkbox"/> Cloth	<input type="checkbox"/> Insulation (non-Asbestosform)	<input type="checkbox"/> Cement & concrete
<input type="checkbox"/> Manufactured items: (swamp coolers, furniture, rugs, carpet, electronic components, PPE, etc.)					

Additional waste accepted at the Area 23 Mercury Landfill: Office waste Food Waste Animal Carcasses Asbestos: Friable Non-Friable (contact SWO if regulated load) Quantity: _____

Additional waste accepted at the Area 9 U10c Landfill:

<input type="checkbox"/> Non-friable asbestos	<input type="checkbox"/> Drained automobiles and military vehicles	<input type="checkbox"/> Solid fractions from sand/oil/water separators
<input type="checkbox"/> Light ballasts (contact SWO)	<input type="checkbox"/> Drained fuel filters (gas & diesel)	<input type="checkbox"/> Deconned Underground and Above Ground
<input type="checkbox"/> Hydrocarbons (contact SWO)		<input type="checkbox"/> Tanks

Additional waste accepted at the Area 6 Hydrocarbon Landfill:

<input type="checkbox"/> Septic sludge	<input type="checkbox"/> Rags	<input type="checkbox"/> Drained fuel filters (gas & diesel)	<input type="checkbox"/> Crushed non-ferme plated oil filters
<input type="checkbox"/> Plants		<input type="checkbox"/> Sludge from sand/oil/water separators	<input checked="" type="checkbox"/> PCBs below 50 parts per million

REQUIRED: WASTE GENERATOR SIGNATURE

Initials: _____ (If initialed, no radiological clearance is necessary.)

The above mentioned waste was generated outside of a Controlled Waste knowledge, does not contain radiological materials.

To the best of my knowledge, the waste described above contains only 1 site. I have verified this through the waste characterization method /item/ prohibited and allowable waste items.

Radiation Survey Release for Waste Disposal**RCT Initials**

This container/load is free of external radioactive contamination.

This container/load is exempt from survey due to process knowledge and origin.

This container/load is free of radioactive contamination based on radiosanalysis.

SIGNATURE: /s/ Signature on file DATE: 3-26-02

Print Name: Donald H. Cox

Signature: /s/ Donald Cox

Date: 26 MAR 02

Note: Food waste, office trash and/or animal carcasses are considered not to contain added radioactivity, and therefore do not require a radiological clearance.

SWO USE ONLYLoad Weight (net from scale or estimate): 30,000 Signature of Certifier: _____ /s/ Signature on file

Bechtel Nevada**NTS Landfill Load Verification**

(Waste definitions are available on page 2)

SWO USE (Circle One Area) AREA**23****6****9****LANDFILL**

For waste characterization, approval, and/or assistance, contact Solid Waste Operation (SWO) at 5-7898.

REQUIRED: WASTE GENERATOR INFORMATION

(This form is for rolloffs, dump trucks, and other onsite disposal of materials.)

Waste Generator: Environmental Restoration, Don Cox Phone Number: 5-5576

Location / Origin: Area 27, Site Maintenance Yard, CAU 326

Waste Category: (check one)	<input type="checkbox"/> Commercial	<input checked="" type="checkbox"/> Industrial		
Waste Type: (check one)	<input checked="" type="checkbox"/> NTS	<input type="checkbox"/> Putrescible	<input type="checkbox"/> FFACO-onsite	<input type="checkbox"/> WAC Exception
	<input type="checkbox"/> Non-Putrescible	<input type="checkbox"/> Asbestos Containing Material	<input type="checkbox"/> FFACO-offsite	<input type="checkbox"/> Historic DOE/INV
Pollution Prevention Category: (check one)	<input checked="" type="checkbox"/> Environmental management			
Pollution Prevention Category: (check one)	<input checked="" type="checkbox"/> Clean-Up			
Method of Characterization: (check one)	<input type="checkbox"/> Sampling & Analysis	<input checked="" type="checkbox"/> Process Knowledge	<input type="checkbox"/> Contents	

Prohibited Waste at all three NTS landfills: Radioactive waste; RCRA waste; Hazardous waste; Free liquids, PCBs above TSCA regulatory levels-, and Medical wastes (needles, sharps, bloody clothing).

Additional Prohibited Waste at the Area 9 U10c Landfill: Sewage Sludge; Animal carcasses; Wet garbage (food waste); and Friable asbestos

REQUIRED: WASTE CONTENTS ALLOWABLE WASTES

Check all allowable wastes that are contained within this load:

NOTE: Waste disposed at the Area 6 Hydrocarbon Landfill must have come into contact with petroleum hydrocarbons or coolants such as: gasoline (no benzene, lead); jet fuel; diesel fuel; lubricants and hydraulics; kerosene; asphaltic petroleum hydrocarbon; and ethylene glycol.

Acceptable waste at any NTS landfill:	<input type="checkbox"/> Paper	<input type="checkbox"/> Rocks / unaltered geologic materials	<input type="checkbox"/> Empty containers		
<input type="checkbox"/> Asphalt	<input type="checkbox"/> Metal	<input type="checkbox"/> Wood	<input type="checkbox"/> Soil	<input type="checkbox"/> Rubber (excluding tires)	<input type="checkbox"/> Demolition debris
<input checked="" type="checkbox"/> Plastic	<input type="checkbox"/> Wire	<input type="checkbox"/> Cable	<input type="checkbox"/> Cloth	<input type="checkbox"/> Insulation (non-Asbestosform)	<input type="checkbox"/> Cement & concrete
<input type="checkbox"/> Manufactured items: (swamp coolers, furniture, rugs, carpet, electronic components, PPE, etc.)					

Additional waste accepted at the Area 23 Mercury Landfill: Office waste Food Waste Animal Carcasses Asbestos: Friable Non-Friable (contact SWO if regulated load) Quantity: _____

Additional waste accepted at the Area 9 U10c Landfill:

<input type="checkbox"/> Non-friable asbestos	<input type="checkbox"/> Drained automobiles and military vehicles	<input type="checkbox"/> Solid fractions from sand/oil/water separators
<input type="checkbox"/> Light ballasts (contact SWO)	<input type="checkbox"/> Drained fuel filters (gas & diesel)	<input type="checkbox"/> Deconned Underground and Above Ground
<input type="checkbox"/> Hydrocarbons (contact SWO)		<input type="checkbox"/> Tanks

Additional waste accepted at the Area 6 Hydrocarbon Landfill:

<input type="checkbox"/> Septic sludge	<input type="checkbox"/> Rags	<input type="checkbox"/> Drained fuel filters (gas & diesel)	<input type="checkbox"/> Crushed non-ferrous plated oil filters
<input type="checkbox"/> Plants		<input type="checkbox"/> Sludge from sand/oil/water separators	<input checked="" type="checkbox"/> PCBs below 50 parts per million

REQUIRED: WASTE GENERATOR SIGNATURE

Initials: _____ (If initialed, no radiological clearance is necessary.)

The above mentioned waste was generated outside of a Controlled Waste knowledge, does not contain radiological materials.

To the best of my knowledge, the waste described above contains only 1 site. I have verified this through the waste characterization method identified prohibited and allowable waste items.

Print Name: Donald H. Cox

Signature: /s/ Donald Cox

Date: 26 MAR 02

Radiation Survey Release for Waste Disposal**RCT Initials**

This container/load is free of external radioactive contamination.

This container/load is exempt from survey due to process knowledge and origin.

This container/load is free of radioactive contamination based-on radioanalysis.

SIGNATURE: /s/ Signature on file

DATE: 3/27/02

BN-0645 (09/00)

Note: Food waste, office trash and/or animal carcasses are considered not to contain added radioactivity, and therefore do not require a radiological clearance.

SWO USE ONLY

Load Weight (net from scale or estimate):

27,000

Signature of Certifier:

/s/ Signature on file

BN-0645 (09/00)

DATE: 10/12/02

(check one)

 Area 9 - U10c Area 6 Hydrocarbon Area 23 Landfill

WASTE GENERATOR Name, Phone #	WASTE ORIGIN Area, Building	WASTE CODE*	TICKET NUMBER	NET WEIGHT (lbs)	TIME IN	TIME OUT	DRIVER Last Name, Initials
BN	A-12	C	1	2800	845	900	JONES S ✓
BN Mike Kruzic	A-27 MY/Fx	C	2	32,000	08:32	8:49	KACZAY R ✓
B.N.	A-12	C	3	38,960	9:15	9:40	Harris E ✓
B.N.	A-12	C	4	10,000	10:10	10:25	Lucas R ✓
BN	A-12	C	5	14,000	10:20	10:35	JONES S ✓
B.N.	A-12	C	6	23,600	10:30	10:45	Harris E ✓
BN	A-12	C	7	12,000	10:38	10:45	TIGARDY C ✓
Mike Kruzic	A-27 MY/Fx	C	8	34,000	10:22	10:38	KACZAY R ✓
BN	A-12	C	9	9,300	11:10	11:25	Lucas R ✓

*Waste Codes: ASB - Asbestos; C - Construction; H - Hydrocarbon; P - Putrescible; NP - Non-Putrescible; S - Sewage Sludge; F - FFACO

INSPECTION INFORMATION

Site Conditions:Do berms/walls need repair? No Yes

Does cover need repair /

evidence of settling? No YesDoes fence need repair? No YesDoes road(s) need repair? No YesHas litter accumulated? No YesHas water accumulated? No Yes

Corrective Actions Needed:

Corrective Actions Taken: (description, name, date):

INSPECTED BY
(date/time):Random Load Inspection: Ticket Number: _____ No prohibited waste was found Yes, the prohibited waste(s) identified below were found. Putrescible waste (prohibited in U10c and Area 6 Landfills). Hazardous waste per NAC 444.580 PCB waste regulated by TSCA Waste containing free liquids TSCA-regulated Waste failing the "no added radioactivity" per the POC requirement. Friable asbestos (prohibited in U10c and Area 6 Landfills) Hydrocarbon soil at >100 ppm TPH (prohibited in 23, allowed in U10c provided less than 50 cubic yards/week are disposed)

Corrective Actions Taken: (description, name, date, who notified):

INSPECTED BY (date/time):

LANDFILL DAILY ACCESS REGISTER

DATE: 6/12/02

(check one)

Area 9 - U10c

Area 6 Hydrocarbon

Area 23 Landfill

WASTE GENERATOR Name, Phone #	WASTE ORIGIN Area, Building	WASTE CODE*	TICKET NUMBER	NET WEIGHT (lbs)	TIME IN	TIME OUT	DRIVER Last Name, Initials
B N	A-12	C	10	26,420	11:15	11:30	J E ✓
B N	A-12	C	11	24,210	11:25	11:40	JONES, S ✓
B N	A-12	C	12	10,000	11:32	11:45	JELLINEY, C ✓
B N	A-12	C	13	16,260	11:35	12:10	LUCAS, R ✓
MIKE KAUZIC	A-27	C	14	est. 36,000	11:56	12:10	KAUZIC, M ✓
P N	A-12	C	15	12,100	12:35	12:50	JONES, S ✓
B N	A-12	C	16	16,000	1:15	1:30	JELLINEY, C ✓
B N	A-12	C	17	22,360	1:30	1:45	HARRIS, E ✓
B N	A-12	C	18	12,000	1:40	1:55	JONES, S ✓

*Waste Codes: ASB - Asbestos; C - Construction; H - Hydrocarbon; P - Putrescible; NP - Non-Putrescible; S - Sewage Sludge; F - FFACO

INSPECTION INFORMATION

Site Conditions:

Do berms/walls need repair? No Yes

Does cover need repair /

evidence of settling? No Yes

Does fence need repair? No Yes

Does road(s) need repair? No Yes

Has litter accumulated? No Yes

Has water accumulated? No Yes

Corrective Actions Needed:

Random Load Inspection:

Ticket Number:

- No prohibited waste was found
- Yes, the prohibited waste(s) identified below were found.
 - Putrescible waste (prohibited in U10c and Area 6 Landfills).
 - Hazardous waste per NAC 444.580
 - PCB waste regulated by TSCA
 - Waste containing free liquids
 - TSCA-regulated
 - Waste failing the "no-added radioactivity" per the POC requirement.
 - Friable asbestos (prohibited in U10c and Area 6 Landfills)
 - Hydrocarbon soil at >100 ppm TPH (prohibited in 23, allowed in U10c provided less than 50 cubic yards/week are disposed)

Corrective Actions Taken: (description, name, date, who notified):

Corrective Actions Taken: (description, name, date):

INSPECTED BY
(date/time):

INSPECTED BY (date/time):

LANDFILL DAILY ACCESS REGISTER

DATE: 10/12/03

(check one)

Area 9 - U10c

Area 6 Hydrocarbon

Area 23 Landfill

WASTE GENERATOR Name, Phone #	WASTE ORIGIN Area, Building	WASTE CODE*	TICKET NUMBER	NET WEIGHT (lbs)	TIME IN	TIME OUT	DRIVER Last Name, Initials
BN	A-12	C	19	10,000	1:30	1:45	LUCAS R, ✓
BN	A-12	C	20	1640	13:45	14:00	BICKFORD ✓
BN	A-12	C	21	4,440	2:15	2:30	TOLLADAY, C ✓
Mike Kruzic	A-27	C	22	34000	2:00	2:10	KACZAY K ✓
BN	A-12	C	23	4,5140	2:20	2:35	JONES, S ✓
Mike Kruzic	A27 MY/EX	C	24	38,000	3:35	3:44	KACZAY K ✓

*Waste Codes: ASB - Asbestos; C - Construction; H - Hydrocarbon; P - Putrescible; NP - Non-Putrescible; S - Sewage Sludge; F - FFACO

INSPECTION INFORMATION

Site Conditions:

Do berms/walls need repair? No Yes

Does cover need repair /
evidence of settling? No Yes

Does fence need repair? No Yes

Does road(s) need repair? No Yes

Has litter accumulated? No Yes

Has water accumulated? No Yes

Corrective Actions Needed:

Corrective Actions Taken: (description, name, date):

INSPECTED BY
(date/time):

Random Load Inspection: Ticket Number:

- No prohibited waste was found
- Yes, the prohibited waste(s) identified below were found.
 - Putrescible waste (prohibited in U10c and Area 6 Landfills).
 - Hazardous waste per NAC 444.580
 - PCB waste regulated by TSCA
 - Waste containing free liquids
 - TSCA-regulated
 - Waste failing the "no added radioactivity" per the POC requirement.
 - Friable asbestos (prohibited in U10c and Area 6 Landfills)
 - Hydrocarbon soil at >100 ppm TPH (prohibited in 23, allowed in U10c provided less than 50 cubic yards/week are disposed)

Corrective Actions Taken: (description, name, date, who notified):

INSPECTED BY (date/time):

SWO USE (Circle One Area) AREA 23 6 9 LANDFILL

For waste characterization, approval, and/or assistance, contact Solid Waste Operation (SWO) at 5-7898.

REQUIRED: WASTE GENERATOR INFORMATION

(This form is for rolloffs, dump trucks, and other onsite disposal of materials.)

Waste Generator: Mike Krusic

Phone Number: 5-7396

Location / Origin: Area 27 Maintenance Yard / Excavation

(IPV 32-6)

Waste Category: (check one) 05617/02 Commercial Industrial 05617/02Waste Type: NTS Putrescible FFACO-onsite WAC Exception
(check one) Non-Putrescible Asbestos Containing Material FFACO-offsite Historic DOE/NVPollution Prevention Category: (check one) Environmental management Defense ProjectsPollution Prevention Category: (check one) Clean-Up RoutineMethod of Characterization: (check one) Sampling & Analysis Process Knowledge Contents

Prohibited Waste: Radioactive waste; RCRA waste; Hazardous waste; Free liquids, PCBs above TSCA regulatory levels, and Medical at all three NTS landfills: wastes (needles, sharps, bloody clothing).

Additional Prohibited Waste: Sewage Sludge; Animal carcasses; Wet garbage (food waste); and Friable asbestos at the Area 9 U10c Landfill:

REQUIRED: WASTE CONTENTS ALLOWABLE WASTES

Check all allowable wastes that are contained within this load:

NOTE: Waste disposed at the Area 6 Hydrocarbon Landfill must have come into contact with petroleum hydrocarbons or coolants such as: gasoline (no benzene, lead); jet fuel; diesel fuel; lubricants and hydraulics; kerosene; asphaltic petroleum hydrocarbon; and ethylene glycol.

Acceptable waste at any NTS landfill: Paper Rocks / unaltered geologic materials Empty containers
 Asphalt Metal Wood Soil Rubber (excluding tires) Demolition debris
 Plastic Wire Cable Cloth Insulation (non-Asbestosform) Cement & concrete
 Manufactured items: (swamp coolers, furniture, rags, carpet, electronic components, PPE, etc.)Additional waste accepted at the Area 23 Mercury Landfill: Office waste Food Waste Animal Carcasses Asbestos: Friable Non-Friable (contact SWO if regulated load) Quantity: _____

Additional waste accepted at the Area 9 U10c Landfill:

 Non-friable asbestos Drained automobiles and military vehicles Solid fractions from sand/oil/water separators
 Light ballasts (contact SWO) Drained fuel filters (gas & diesel) Deconned Underground and Above Ground
 Hydrocarbons (contact SWO) Sludge from sand/oil/water separators Tanks

Additional waste accepted at the Area 6 Hydrocarbon Landfill:

 Septic sludge Rags Drained fuel filters (gas & diesel) Crushed non-ferne plated oil filters
 Plants Sludge from sand/oil/water separators PCBs below 50 parts per million

REQUIRED: WASTE GENERATOR SIGNATURE

Initials: _____ (If initialed, no radiological clearance is necessary.)

The above mentioned waste was generated outside of a Controlled Waste Management knowledge, does not contain radiological materials.

To the best of my knowledge, the waste described above contains only those materials. I have verified this through the waste characterization method identified above prohibited and allowable waste items.

Print Name: Michael Krusic

Signature: _____ Date: 6/11/02

Note: Food waste, office trash and/or animal carcasses are considered not to contain added radioactivity, and therefore do not require a radiological clearance.

SWO USE ONLY

Load Weight (net from scale or estimate): 61-32,000

Signature of Certifier: _____

Radiation Survey Release for Waste Disposal

RCT Initials

 This container/load is free of external radioactive contamination. This container/load is exempt from survey due to process knowledge and origin. This container/load is free of radioactive contamination based on radioanalysis.

SIGNATURE:

Michael Krusic

DATE: 6-11-02

BN-0918 (09/00)

SWO USE (Circle One Area) AREA

23

6

9

LANDFILL

For waste characterization, approval, and/or assistance, contact Solid Waste Operation (SWO) at 5-7898.

REQUIRED: WASTE GENERATOR INFORMATION

(This form is for rolloffs, dump trucks, and other onsite disposal of materials.)

Waste Generator: Mike Kruzin Phone Number: 5-7396Location / Origin: Area 27 Maintenance Yard / Excavation*CAV 326*Waste Category: (check one) 6/1/02 Commercial Industrial 6/1/02Waste Type: NTS Putrescible FFACO-onsite WAC Exception
(check one) Non-Putrescible Asbestos Containing Material FFACO-offsite Historic DOE/NVPollution Prevention Category: (check one) Environmental management Defense ProjectsPollution Prevention Category: (check one) Clean-Up RoutineMethod of Characterization: (check one) Sampling & Analysis Process Knowledge Contents

Prohibited Waste at all three NTS landfills: Radioactive waste; RCRA waste; Hazardous waste; Free liquids, PCBs above TSCA regulatory levels; and Medical wastes (needles, sharps, bloody clothing).

Additional Prohibited Waste Sewage Sludge; Animal carcasses; Wet garbage (food waste); and Friable asbestos at the Area 9 U10c Landfill:

REQUIRED: WASTE CONTENTS ALLOWABLE WASTES

Check all allowable wastes that are contained within this load:

NOTE: Waste disposed at the Area 6 Hydrocarbon Landfill must have come into contact with petroleum hydrocarbons or coolants such as: gasoline (no benzene, lead); jet fuel; diesel fuel; lubricants and hydraulics; kerosene; asphaltic petroleum hydrocarbon; and ethylene glycol.

Acceptable waste at any NTS landfill: Paper Rocks / unaltered geologic materials Empty containers
 Asphalt Metal Wood Soil Rubber (excluding tires) Demolition debris
 Plastic Wire Cable Cloth Insulation (non-Asbestosform) Cement & concrete
 Manufactured items: (swamp coolers, furniture, rugs, carpet, electronic components, PPE, etc.)Additional waste accepted at the Area 23 Mercury Landfill: Office waste Food Waste Animal Carcasses Asbestos: Friable Non-Friable (contact SWO if regulated load) Quantity: _____

Additional waste accepted at the Area 9 U10c Landfill:

 Non-friable asbestos Drained automobiles and military vehicles Solid fractions from sand/oil/water separators
 Light ballasts (contact SWO) Drained fuel filters (gas & diesel) Deconned Underground and Above Ground
 Hydrocarbons (contact SWO) Sludge from sand/oil/water separators Tanks

Additional waste accepted at the Area 6 Hydrocarbon Landfill:

 Septic sludge Rags Drained fuel filters (gas & diesel) Crushed non-ferme plated oil filters
 Plants Sludge from sand/oil/water separators PCBs below 50 parts per million

REQUIRED: WASTE GENERATOR SIGNATURE

Initials: _____ (If initiated, no radiological clearance is necessary.)

The above mentioned waste was generated outside of a Controlled Waste Management knowledge, does not contain radiological materials.

To the best of my knowledge, the waste described above contains only those materials. I have verified this through the waste characterization method identified above. prohibited and allowable waste items.

Print Name: Michael KruzinSignature: _____ Date: 6/11/02

Note: Food waste, office trash and/or animal carcasses are considered not to contain added radioactivity, and therefore do not require a radiological clearance.

SWO USE ONLY

Load Weight (net from scale or estimate): 36,000 Signature of Certifier: _____

Radiation Survey Release for Waste Disposal

RCT Initials

 This container/lead is free of external radioactive contamination. This container/lead is exempt from survey due to process knowledge and origin. This container/lead is free of radioactive contamination based on radioanalysis.SIGNATURE: Michael KruzinDATE: 6-11-02

SN-0918 (09/02)

SWO USE (Circle One Area) AREA

23

6

9

LANDFILL

For waste characterization, approval, and/or assistance, contact Solid Waste Operation (SWO) at 5-7898.

REQUIRED: WASTE GENERATOR INFORMATION

(This form is for rolloffs, dump trucks, and other onsite disposal of materials.)

Waste Generator: Mike Kruzic

Phone Number: 5-7396

Location / Origin: Area 27 Maintenance Yard / Excavation

PAU 32-6

Waste Category: (check one) Commercial IndustrialWaste Type: 4TF9 Putrescible FFACO-onsite WAC Exception
 Non-Putrescible Asbestos Containing Material FFACO-offsite Historic DOE/NVPollution Prevention Category: (check one) Environmental management Defense ProjectsPollution Prevention Category: (check one) Clean-Up RoutineMethod of Characterization: (check one) Sampling & Analysis Process Knowledge Contents

Prohibited Waste at all three NTS landfills: Radioactive waste; RCRA waste; Hazardous waste; Free liquids, PCBs above TSCA regulatory levels-, and Medical wastes (needles, sharps, bloody clothing).

Additional Prohibited Waste at the Area 9 U10c Landfill: Sewage Sludge; Animal carcasses-, Wet garbage (food waste); and Friable asbestos

REQUIRED: WASTE CONTENTS ALLOWABLE WASTES

Check all allowable wastes that are contained within this load:

NOTE: Waste disposed at the Area 6 Hydrocarbon Landfill must have come into contact with petroleum hydrocarbons or coolants such as: gasoline (no benzene, lead); jet fuel; diesel fuel; lubricants and hydraulics; kerosene; asphaltic petroleum hydrocarbon; and ethylene glycol.

Acceptable waste at any NTS landfill: Paper Rocks / unaltered geologic materials Empty containers
 Asphalt Metal Wood Soil Rubber (excluding tires) Demolition debris
 Plastic Wire Cable Cloth Insulation (non-Asbestosform) Cement & concrete
 Manufactured items: (swamp coolers, furniture, rugs, carpet, electronic components, PPE, etc.)Additional waste accepted at the Area 23 Mercury Landfill: Office waste Food Waste Animal Carcasses Asbestos: Friable Non-Friable (contact SWO if regulated load) Quantity: _____

Additional waste accepted at the Area 9 U10c Landfill:

 Non-friable asbestos Drained automobiles and military vehicles Solid fractions from sand/oil/water separators
 Light ballasts (contact SWO) Drained fuel filters (gas & diesel) Deconned Underground and Above Ground
 Hydrocarbons (contact SWO) Tanks

Additional waste accepted at the Area 6 Hydrocarbon Landfill:

 Septic sludge Rags Drained fuel filters (gas & diesel) Crushed non-ferme plated oil filters
 Plants Sludge from sand/oil/water separators PCBs below 50 parts per million

REQUIRED: WASTE GENERATOR SIGNATURE

Initials: _____ (If initialed, no radiological clearance is necessary.)

The above mentioned waste was generated outside of a Controlled Waste Management site, does not contain radiological materials.

To the best of my knowledge, the waste described above contains only those materials. I have verified this through the waste characterization method identified above prohibited and allowable waste items.

Print Name: Michael Kruzic

Signature: _____ Date: 6/11/10

Note: Food waste, office trash and/or animal carcasses are considered not to contain added radioactivity, and therefore do not require a radiological clearance.

SWO USE ONLY

Load Weight (net from scale or estimate): 34000 Signature of Certifier: _____

Radiation Survey Release for Waste Disposal
RCT Initials This container/load is free of external radioactive contamination.
 This container/load is exempt from survey due to process knowledge and origin.
 This container/load is free of radioactive contamination based on radioanalysis.

SIGNATURE: Michael Kruzic

DATE: 6/11/10
SW-0545 (2000)

DATE: 6-13-02

(check one) Area 9 - U10c Area 6 Hydrocarbon Area 23 Landfill

WASTE GENERATOR Name, Phone #	WASTE ORIGIN Area, Building	WASTE CODE*	TICKET NUMBER	NET WEIGHT (lbs)	TIME IN	TIME OUT	DRIVER Last Name, Initials
B.N.	A-25	C	1	34260	9:30	9:45	Mo E ✓
Mike Kauzic	A27 MY/Ex	C	2	42,000	9:15	9:30	Kaczay K ✓
BN	H-2	C	3	28,000	10:20	10:40	(Driver L) ✓
B.N.	A-17	C	4	16,000	10:30	10:45	Mo E ✓
Mike Kauzic	A27 MY/Ex	C	5	39,000	10:50	11:05	Kaczay K ✓
BN	H-12	C	6	6,000	11:00	11:15	Tucker J.C. ✓
BN	A-17	C	7	4649	11:00	11:16	Wright R. ✓
Mike Kauzic	A27 MY/Ex	C	8	38,000	12:56	1:08	Kaczay K ✓
BN	H-12	C	9	21,716	13:50	13:50	(Driver P) ✓

*Waste Codes: ASB - Asbestos; C - Construction; H - Hydrocarbon; P - Putrescible; NP - Non-Putrescible; S - Sewage Sludge; F - FFACO

INSPECTION INFORMATION

Site Conditions:

Do berms/walls need repair? No Yes

Does cover need repair / evidence of settling? No Yes

Does fence need repair? No Yes

Does road(s) need repair? No Yes

Has litter accumulated? No Yes

Has water accumulated? No Yes

Corrective Actions Needed:

Corrective Actions Taken: (description, name, date):

INSPECTED BY
(date/time):

Random Load Inspection: Ticket Number: _____

No prohibited waste was found

Yes, the prohibited waste(s) identified below were found.

- Putrescible waste (prohibited in U10c and Area 6 Landfills).
- Hazardous waste per NAC 444.580
- PCB waste regulated by TSCA
- Waste containing free liquids
- TSCA-regulated
- Waste failing the "no added radioactivity" per the POC requirement.
- Friable asbestos (prohibited in U10c and Area 6 Landfills)
- Hydrocarbon soil at >100 ppm TPH (prohibited in 23, allowed in U10c provided less than 50 cubic yards/week are disposed)

Corrective Actions Taken: (description, name, date, who notified):

INSPECTED BY (date/time):

SWO USE (Circle One Area) AREA 23 6 9 LANDFILL

For waste characterization, approval, and/or assistance, contact Solid Waste Operation (SWO) at 5-7898.

REQUIRED: WASTE GENERATOR INFORMATION

(This form is for rolloffs, dump trucks, and other onsite disposal of materials.)

Waste Generator: Mike Kruzie

Phone Number: 5-7396

Location / Origin: Area 27 Maintenance Yard / Excavation

CP0 320

Waste Category: (check one) Commercial IndustrialWaste Type: NFS Putrescible FFACO-onsite WAC Exception
(check one) Non-Putrescible Asbestos Containing Material FFACO-offsite Historic DOE/NVPollution Prevention Category: (check one) Environmental management Defense ProjectsPollution Prevention Category: (check one) Clean-Up RoutineMethod of Characterization: (check one) Sampling & Analysis Process Knowledge Contents

Prohibited Waste: Radioactive waste; RCRA waste; Hazardous waste; Free liquids, PCBs above TSCA regulatory levels; and Medical at all three NTS landfills: wastes (needles, sharps, bloody clothing).

Additional Prohibited Waste: Sewage Sludge; Animal carcasses; Wet garbage (food waste); and Friable asbestos at the Area 9 U10c Landfill:

REQUIRED: WASTE CONTENTS ALLOWABLE WASTES

Check all allowable wastes that are contained within this load:

NOTE: Waste disposed at the Area 6 Hydrocarbon Landfill must have come into contact with petroleum hydrocarbons or coolants such as: gasoline (no benzene, lead); jet fuel; diesel fuel; lubricants and hydraulics; kerosene; asphaltic petroleum hydrocarbon; and ethylene glycol.

Acceptable waste at any NTS landfill: Paper Rocks / unaltered geologic materials Empty containers
 Asphalt Metal Wood Soil Rubber (excluding tires) Demolition debris
 Plastic Wire Cable Cloth Insulation (non-Asbestosform) Cement & concrete
 Manufactured items: (swamp coolers, furniture, rugs, carpet, electronic components, PPE, etc.)Additional waste accepted at the Area 23 Mercury Landfill: Office waste Food Waste Animal Carcasses Asbestos: Friable Non-Friable (contact SWO if regulated load) Quantity: _____

Additional waste accepted at the Area 9 U10c Landfill:

 Non-friable asbestos Drained automobiles and military vehicles Solid fractions from sand/oil/water separators
 Light ballasts (contact SWO) Drained fuel filters (gas & diesel) Deconned Underground and Above Ground
 Hydrocarbons (contact SWO) Tanks

Additional waste accepted at the Area 6 Hydrocarbon Landfill:

 Septic sludge Rags Drained fuel filters (gas & diesel) Crushed non-ferne plated oil filters
 Plants Sludge from sand/oil/water separators PCBs below 50 parts per million

REQUIRED: WASTE GENERATOR SIGNATURE

Initials: _____ (If initialed, no radiological clearance is necessary.)

The above mentioned waste was generated outside of a Controlled Waste Management knowledge, does not contain radiological materials.

To the best of my knowledge, the waste described above contains only those materials. I have verified this through the waste characterization method identified above prohibited and allowable waste items.

Print Name: Michael Kruzie

Signature: /s/ Signature on file Date: 6/11/02

Note: Food waste, office trash and/or animal carcasses are considered not to contain added radioactivity, and therefore do not require a radiological clearance.

SWO USE ONLY

Load Weight (net from scale or estimate): 42,000 Signature of Certifier: /s/ Signature on file

Radiation Survey Release for Waste Disposal

RCT Initials

This container/load is free of external radioactive contamination.

This container/load is exempt from survey due to process knowledge and origin.

This container/load is free of radioactive contamination based on radiocanalysis.

SIGNATURE: /s/ Signature on file
DATE: 6-11-02
42,000 lbs. (42000)

(5)

SWO USE (Circle One Area) AREA

23

6

9

LANDFILL

For waste characterization, approval, and/or assistance, contact Solid Waste Operation (SWO) at 5-7898.

REQUIRED: WASTE GENERATOR INFORMATION

(This form is for rolloffs, dump trucks, and other onsite disposal of materials.)

Waste Generator: Mike KruzicPhone Number: 5-7396Location / Origin: Area 27 Maintenance Yard / Excavation*CAV 326*Waste Category: (check one) Commercial IndustrialWaste Type: NTS Putrescible FFACO-onsite WAC Exception
(check one) Non-Putrescible Asbestos Containing Material FFACO-offsite Historic DOE/NVPollution Prevention Category: (check one) Environmental management Defense ProjectsPollution Prevention Category: (check one) Clean-Up RoutineMethod of Characterization: (check one) Sampling & Analysis Process Knowledge Contents

Prohibited Waste: Radioactive waste; RCRA waste; Hazardous waste; Free liquids, PCBs above TSCA regulatory levels-, and Medical at all three NTS landfills: wastes (needles, sharps, bloody clothing).

Additional Prohibited Waste: Sewage Sludge; Animal carcasses-; Wet garbage (food waste); and Friable asbestos at the Area 9 U10c Landfill:

REQUIRED: WASTE CONTENTS ALLOWABLE WASTES

Check all allowable wastes that are contained within this load:

NOTE: Waste disposed at the Area 6 Hydrocarbon Landfill must have come into contact with petroleum hydrocarbons or coolants such as: gasoline (no benzene, lead); jet fuel; diesel fuel; lubricants and hydraulics; kerosene; asphaltic petroleum hydrocarbon; and ethylene glycol.

Acceptable waste at any NTS landfill: Paper Rocks / unaltered geologic materials Empty containers
 Asphalt Metal Wood Soil Rubber (excluding tires) Demolition debris
 Plastic Wire Cable Cloth Insulation (non-Asbestosform) Cement & concrete
 Manufactured items: (swamp coolers, furniture, rugs, carpet, electronic components, PPE, etc.)Additional waste accepted at the Area 23 Mercury Landfill: Office waste Food Waste Animal Carcasses Asbestos: Friable Non-Friable (contact SWO if regulated load) Quantity: _____

Additional waste accepted at the Area 9 U10c Landfill:

 Non-friable asbestos Drained automobiles and military vehicles Solid fractions from sand/oil/water separators
 Light ballasts (contact SWO) Drained fuel filters (gas & diesel) Deconned Underground and Above Ground
 Hydrocarbons (contact SWO) Sludge from sand/oil/water separators Tanks

Additional waste accepted at the Area 6 Hydrocarbon Landfill:

 Septic sludge Rags Drained fuel filters (gas & diesel) Crushed non-ferrous plated oil filters
 Plants Sludge from sand/oil/water separators PCBs below 50 parts per million

REQUIRED: WASTE GENERATOR SIGNATURE

Initials: _____ (If initiated, no radiological clearance is necessary.)

The above mentioned waste was generated outside of a Controlled Waste Management knowledge, does not contain radiological materials.

To the best of my knowledge, the waste described above contains only those materials. I have verified this through the waste characterization method identified above. I have not identified any prohibited and allowable waste items.

Print Name: Michael KruzicSignature: /s/ Signature on fileDate: 6/11/02

Note: Food waste, office trash and/or animal carcasses are considered not to contain added radioactivity, and therefore do not require a radiological clearance.

SWO USE ONLY

Load Weight (net from scale or estimate): 39,000Signature of Certifier: Michael Kruzic

Radiation Survey Release for Waste Disposal

RCT Initials

 This container/load is free of external radioactive contamination. This container/load is exempt from survey due to process knowledge and origin. This container/load is free of radioactive contamination based on radioanalysis.SIGNATURE: /s/ Signature on file DATE: 6/11/02

BH-0918 (09/00)

SWO USE (Circle One Area) AREA 23 6 9 LANDFILL

For waste characterization, approval, and/or assistance, contact Solid Waste Operation (SWO) at 5-7898.

REQUIRED: WASTE GENERATOR INFORMATION

(This form is for rolloffs, dump trucks, and other onsite disposal of materials.)

Waste Generator: Mike KruziePhone Number: 5-7396Location / Origin: Area 27 Maintenance Yard / ExcavationCAV 326Waste Category: (check one) Commercial IndustrialWaste Type: NTS Putrescible FFACO-onsite WAC Exception
(check one) Non-Putrescible Asbestos Containing Material FFACO-offsite Historic DOE/NVPollution Prevention Category: (check one) Environmental management Defense ProjectsPollution Prevention Category: (check one) Clean-Up RoutineMethod of Characterization: (check one) Sampling & Analysis Process Knowledge Contents

Prohibited Waste at all three NTS landfills: Radioactive waste; RCRA waste; Hazardous waste; Free liquids, PCBs above TSCA regulatory levels-, and Medical wastes (needles, sharps, bloody clothing).

Additional Prohibited Waste at the Area 9 U10c Landfill: Sewage Sludge; Animal carcasses; Wet garbage (food waste); and Friable asbestos

REQUIRED: WASTE CONTENTS ALLOWABLE WASTES

Check all allowable wastes that are contained within this load:

NOTE: Waste disposed at the Area 6 Hydrocarbon Landfill must have come into contact with petroleum hydrocarbons or coolants such as: gasoline (no benzene, lead); jet fuel; diesel fuel; lubricants and hydraulics; kerosene; asphaltic petroleum hydrocarbon; and ethylene glycol.

Acceptable waste at any NTS landfill: Paper Rocks / unaltered geologic materials Empty containers
 Asphalt Metal Wood Soil Rubber (excluding tires) Demolition debris
 Plastic Wire Cable Cloth Insulation (non-Asbestosform) Cement & concrete
 Manufactured items: (swamp coolers, furniture, rugs, carpet, electronic components, PPE, etc.)Additional waste accepted at the Area 23 Mercury Landfill: Office waste Food Waste Animal Carcasses Asbestos: Friable Non-Friable (contact SWO if regulated load) Quantity: _____

Additional waste accepted at the Area 9 U10c Landfill:

 Non-friable asbestos Drained automobiles and military vehicles Solid fractions from sand/oil/water separators
 Light ballasts (contact SWO) Drained fuel filters (gas & diesel) Deconned Underground and Above Ground
 Hydrocarbons (contact SWO) Sludge from sand/oil/water separators Tanks

Additional waste accepted at the Area 6 Hydrocarbon Landfill:

 Septic sludge Rags Drained fuel filters (gas & diesel) Crushed non-ferne plated oil filters
 Plants Sludge from sand/oil/water separators PCBs below 50 parts per million

REQUIRED: WASTE GENERATOR SIGNATURE

Initials: _____ (If initialed, no radiological clearance is necessary.)

The above mentioned waste was generated outside of a Controlled Waste Management knowledge, does not contain radiological materials.

To the best of my knowledge, the waste described above contains only those materials. I have verified this through the waste characterization method identified above prohibited and allowable waste items.

Print Name: Michael KruzieSignature: /s/ Signature on file Date: 6/11/02

Note: Food waste, office trash and/or animal carcasses are considered not to contain added radioactivity, and therefore do not require a radiological clearance.

SWO USE ONLY

Load Weight (net from scale or estimate): 38.20 c Signature of Certifier: /s/ Signature on file

Radiation Survey Release for Waste Disposal

RCT Initials

This container/load is free of external radioactive contamination.

This container/load is exempt from survey due to process knowledge and origin.

This container/load is free of radioactive contamination based on radioanalysis.

SIGNATURE: /s/ Signature on file DATE: 6/11/02
Michael Kruzie DATE: 6/11/02

Bechtel Nevada**NTS Landfill Load Verification**

(Waste definitions are available on page 2)

SWO USE (Circle One Area) AREA

23

6

9

LANDFILL

For waste characterization, approval, and/or assistance, contact Solid Waste Operation (SWO) at 5-7898.

REQUIRED: WASTE GENERATOR INFORMATION

(This form is for rolloffs, dump trucks, and other onsite disposal of materials.)

Waste Generator: Mike KruziePhone Number: 5-7396Location / Origin: Area 27 Maintenance Yard / ExcavationAN 326Waste Category: (check one) 6/11/02 Commercial Industrial 6/11/02Waste Type: NTS Putrescible FFACO-onsite WAC Exception
(check one) Non-Putrescible Asbestos Containing Material FFACO-offsite Historic DOE/NVPollution Prevention Category: (check one) Environmental management Defense ProjectsPollution Prevention Category: (check one) Clean-Up RoutineMethod of Characterization: (check one) Sampling & Analysis Process Knowledge Contents

Prohibited Waste at all three NTS landfills: Radioactive waste; RCRA waste; Hazardous waste; Free liquids, PCBs above TSCA regulatory levels, and Medical wastes (needles, sharps, bloody clothing).

Additional Prohibited Waste at the Area 9 U10c Landfill: Sewage Sludge; Animal carcasses; Wet garbage (food waste); and Friable asbestos

REQUIRED: WASTE CONTENTS ALLOWABLE WASTES

Check all allowable wastes that are contained within this load:

NOTE: Waste disposed at the Area 6 Hydrocarbon Landfill must have come into contact with petroleum hydrocarbons or coolants such as: gasoline (no benzene, lead); jet fuel; diesel fuel; lubricants and hydraulics; kerosene; asphaltic petroleum hydrocarbon; and ethylene glycol.

Acceptable waste at any NTS landfill: Paper Rocks / unaltered geologic materials Empty containers
 Asphalt Metal Wood Soil Rubber (excluding tires) Demolition debris
 Plastic Wire Cable Cloth Insulation (non-Asbestosform) Cement & concrete
 Manufactured items: (swamp coolers, furniture, rugs, carpet, electronic components, PPE, etc.)Additional waste accepted at the Area 23 Mercury Landfill: Office waste Food Waste Animal Carcasses Asbestos: Friable Non-Friable (contact SWO if regulated load) Quantity: _____

Additional waste accepted at the Area 9 U10c Landfill:

 Non-friable asbestos Drained automobiles and military vehicles Solid fractions from sand/oil/water separators
 Light ballasts (contact SWO) Drained fuel filters (gas & diesel) Deconned Underground and Above Ground
 Hydrocarbons (contact SWO) Tanks

Additional waste accepted at the Area 6 Hydrocarbon Landfill:

 Septic sludge Rags Drained fuel filters (gas & diesel) Crushed non-ferne plated oil filters
 Plants Sludge from sand/oil/water separators PCBs below 50 parts per million**REQUIRED: WASTE GENERATOR SIGNATURE**Initials: Michael Kruzie (If initiated, no radiological clearance is necessary.)

The above mentioned waste was generated outside of a Controlled Waste Management knowledge, does not contain radiological materials.

To the best of my knowledge, the waste described above contains only those materials. I have verified this through the waste characterization method identified above. I have not included any prohibited and allowable waste items.

Print Name: Michael KruzieSignature: /s/ Signature on fileDate: 6/11/02

Note: Food waste, office trash and/or animal carcasses are considered not to contain added radioactivity, and therefore do not require a radiological clearance.

SWO USE ONLYLoad Weight (net from scale or estimate): 41,000

Signature of Certifier: _____

/s/ Signature on fileDATE: 6-11-02 SIGNATURE: Michael Kruzie**Radiation Survey Release for Waste Disposal****RCT Initials** This container/load is free of external radioactive contamination. This container/load is exempt from survey due to process knowledge and origin. This container/load is free of radioactive contamination based on radioanalysis.SIGNATURE: /s/ Signature on file DATE: 6-11-02
Michael KruzieSIGNATURE: Michael Kruzie DATE: 6-11-02

RECEIVED NUMBER

LANDFILL DAILY LOG/LOSS REGISTER

WYS 6/11/10 - 2:15pm

DATE: 6-14-02

(check one) Area 9 - U10c Area 6 Hydrocarbon Area 23 Landfill

WASTE GENERATOR Name, Phone #	WASTE ORIGIN Area, Building	WASTE CODE*	TICKET NUMBER	NET WEIGHT (lbs)	TIME IN	TIME OUT	DRIVER Last Name, Initials
BN	A-27	C	1	25,000	8:00	8:15	HAGER
BN	A-12	C	2	8,500	9:45	10:00	LUCAS R.
BN	A-12	C	3	1580	10:00	10:05	LARAVNE
BN	A-12	C	4	12460	10:30	10:45	TOLLADAY, C.
BN	A-12	C	5	7718	11:05	11:20	Wright, M
BN	A-12	C	6	10,500	11:20	11:35	LUCAS, R.
BN	A-12	C	7	11,40	11:45	11:52	LARAVNE
BN	A-12	C	8	1,780	1:00	1:15	TOLLADAY
BN	A-12	C	9	2107	1:10	1:25	Wright, R.

*Waste Codes: ASB - Asbestos; C - Construction; H - Hydrocarbon; P - Putrescible; NP - Non-Putrescible; S - Sewage Sludge; F/FFACO

INSPECTION INFORMATION

Site Conditions:Do berms/walls need repair? No YesDoes cover need repair /
evidence of settling? No YesDoes fence need repair? No YesDoes road(s) need repair? No YesHas litter accumulated? No YesHas water accumulated? No Yes**Corrective Actions Needed:**

Corrective Actions Taken: (description, name, date):

INSPECTED BY
(date/time):**Random Load Inspection:** Ticket Number: _____

No prohibited waste was found

Yes, the prohibited waste(s) identified below were found.

- Putrescible waste (prohibited in U10c and Area 6 Landfills).
- Hazardous waste per NAC 444.580
- PCB waste regulated by TSCA
- Waste containing free liquids
- TSCA-regulated
- Waste failing the "no added radioactivity" per the POC requirement.
- Friable asbestos (prohibited in U10c and Area 6 Landfills)
- Hydrocarbon soil at >100 ppm TPH (prohibited in 23, allowed in U10c provided less than 50 cubic yards/week are disposed)

Corrective Actions Taken: (description, name, date, who notified):

INSPECTED BY (date/time):

11

Hag FR

SWO USE (Circle One Area) AREA

23

6

9

LANDFILL

For waste characterization, approval, and/or assistance, contact Solid Waste Operation (SWO) at 5-7898.

REQUIRED: WASTE GENERATOR INFORMATION

(This form is for rolloffs, dump trucks, and other onsite disposal of materials.)

Waste Generator: Mike KruzicPhone Number: 5-7396Location / Origin: Area 27 Maintenance Yard / Excavation6/11/02

Waste Category: (check one)

 Commercial Industrial

Waste Type: (check one)

 NTS Putrescible FFACO-onsite WAC Exception Non-Putrescible Asbestos Containing Material FFACO-offsite Historic DOE/NV

Pollution Prevention Category: (check one)

 Environmental management Defense Projects

Pollution Prevention Category: (check one)

 Clean-Up Routine

Method of Characterization: (check one)

 Sampling & Analysis Process Knowledge Contents

Prohibited Waste at all three NTS landfills:

Radioactive waste; RCRA waste; Hazardous waste; Free liquids, PCBs above TSCA regulatory levels-, and Medical wastes (needles, sharps, bloody clothing).

Additional Prohibited Waste at the Area 9 U10c Landfill: Sewage Sludge; Animal carcasses-, Wet garbage (food waste); and Friable asbestos

REQUIRED: WASTE CONTENTS ALLOWABLE WASTES

Check all allowable wastes that are contained within this load:

NOTE: Waste disposed at the Area 6 Hydrocarbon Landfill must have come into contact with petroleum hydrocarbons or coolants such as: gasoline (no benzene, lead); jet fuel; diesel fuel; lubricants and hydraulics; kerosene; asphaltic petroleum hydrocarbon; and ethylene glycol.

Acceptable waste at any NTS landfill:

 Paper Rocks / unaltered geologic materials Empty containers Asphalt Metal Wood Soil Rubber (excluding tires) Demolition debris Plastic Wire Cable Cloth Insulation (non-Asbestosform) Cement & concrete Manufactured items: (swamp coolers, furniture, rugs, carpet, electronic components, PPE, etc.)Additional waste accepted at the Area 23 Mercury Landfill: Office waste Food Waste Animal Carcasses Asbestos: Friable Non-Friable (contact SWO if regulated load) Quantity: _____

Additional waste accepted at the Area 9 U10c Landfill:

 Non-friable asbestos Drained automobiles and military vehicles Solid fractions from sand/oil/water separators Light ballasts (contact SWO) Drained fuel filters (gas & diesel) Deconned Underground and Above Ground Hydrocarbons (contact SWO) Tanks

Additional waste accepted at the Area 6 Hydrocarbon Landfill:

 Septic sludge Rags Drained fuel filters (gas & diesel) Crushed non-ferrous plated oil filters Plants Sludge from sand/oil/water separators PCBs below 50 parts per million

REQUIRED: WASTE GENERATOR SIGNATURE

Initials: Michael Kruzic (If initialed, no radiological clearance is necessary.)

The above mentioned waste was generated outside of a Controlled Waste Management knowledge, does not contain radiological materials.

To the best of my knowledge, the waste described above contains only those materials. I have verified this through the waste characterization method identified above prohibited and allowable waste items.

Print Name: Michael KruzicSignature: /s/ Signature on fileDate: 6/11/02

Radiation Survey Release for Waste Disposal

RCT Initials

 This containerload is free of external radioactive contamination. This containerload is exempt from survey due to process knowledge and origin. This containerload is free of radioactive contamination based on radioanalysis.SIGNATURE: /s/ Signature on file DATE: 6/11/02
Michael Kruzic 6/11/02

Note: Food waste, office trash and/or animal carcasses are considered not to contain added radioactivity, and therefore do not require a radiological clearance.

SWO USE ONLY

Load Weight (net from scale or estimate): 25,000

Signature of Certifier: _____

/s/ Signature on file

LANDFILL DAILY LOGBOOK REGISTER

4/17/02

DATE: 6-17-02

(check one)

 Area 9 - U10c Area 6 Hydrocarbon Area 23 Landfill

WASTE GENERATOR Name, Phone #	WASTE ORIGIN Area, Building	WASTE CODE*	TICKET NUMBER	NET WEIGHT (lbs)	TIME IN	TIME OUT	DRIVER Last Name, Initials
B.N.	A-12	C	1	26,000	8:50	8:45	HARRIS E
B/N / LANL	A-12	C	2	4,000	9:25	9:30	ROSE C.E.
Mike Kavacic	A-27 MY/Ex	C	3	43,000	9:26	9:47	Kacay K
R.N.	A-12	C	4	9,000	9:44	10:00	JONES S
R.N.	A-12	C	5	5,000	10:00	10:15	TILLMAN J.C.
B/N	A-12	C	6	34,26	10:08	10:20	Wright, R.
B/N	A-12	C	7	3191	10:50	10:25	L.G. JONES S
B.N.	A-12	C	8	18,000	10:30	10:45	HARRIS
B/N	A-12	C	9	6000	10:30	10:45	JONES S

*Waste Codes: ASB - Asbestos; C - Construction; H - Hydrocarbon; P - Putrescible; NP - Non-Putrescible; S - Sewage Sludge; F - FFACO

INSPECTION INFORMATION

Site Conditions:

Do berms/walls need repair? No YesDoes cover need repair /
evidence of settling? No YesDoes fence need repair? No YesDoes road(s) need repair? No YesHas litter accumulated? No YesHas water accumulated? No Yes

Corrective Actions Needed:

Corrective Actions Taken: (description, name, date):

INSPECTED BY
(date/time):

/s/ Signature on file

17-02

Random Load Inspection: TicketET NUMBER: 2

 No prohibited waste was found Yes, the prohibited waste(s) identified below were found. Putrescible waste (prohibited in U10c and Area 6 Landfills). Hazardous waste per NAC 444.580 PCB waste regulated by TSCA Waste containing free liquids TSCA-regulated Waste failing the "no added radioactivity" per the POC requirement. Friable asbestos (prohibited in U10c and Area 6 Landfills) Hydrocarbon soil at >100 ppm TPH (prohibited in 23, allowed in U10c provided less than 50 cubic yards/week are disposed)

Corrective Actions Taken: (description, name, date, who notified):

INSPECTED BY (date/time):

/s/ Signature on file

17-02

9:00

9:15

LANDFILL DAILY ACCESS REGISTER

DATE: 6-17-02

(check one)

Area 9 - U10c

Area 6 Hydrocarbon

Area 23 Landfill

WASTE GENERATOR Name, Phone #	WASTE ORIGIN Area, Building	WASTE CODE*	TICKET NUMBER	NET WEIGHT (lbs)	TIME IN	TIME OUT	DRIVER Last Name, Initials
BN	A-12	C	10	2,960	1055	11:10	TOLLADAY, C ✓
BN	A-12	C	11	3,580	1100	11:00	Wright, R ✓
Mike Kavzic	A27 MY1Ex	C	12	15,000	11:00	11:10	
BN	A-12	C	13	891	1115	1130	LAMANNA, M ✓
BN	A-12	C	14	1360	1120	1135	JONES, S ✓
BN	A-12	C	15	3,680	1145	12:00	JN ✓
BN	A-12	C	15	2,740	1145	12:00	Tolladay, C ✓
BN	A-12	C	16	4,080	1250	13:05	Wright, R ✓
Mike Kavzic	A27 MY1Ex	C	17	44,000	1:00	1:15	KAZAKY, K ✓

*Waste Codes: ASB - Asbestos; C - Construction; H - Hydrocarbon; P - Putrescible; NP - Non-Putrescible; S - Sewage Sludge; F - FFACO

INSPECTION INFORMATION

Site Conditions:

Do berms/walls need repair? No Yes

Does cover need repair /
evidence of settling? No Yes

Does fence need repair? No Yes

Does road(s) need repair? No Yes

Has litter accumulated? No Yes

Has water accumulated? No Yes

Corrective Actions Needed:

Corrective Actions Taken: (description, name, date):

INSPECTED BY
(date/time):

Random Load Inspection: Ticket Number:

No prohibited waste was found

Yes, the prohibited waste(s) identified below were found.

Putrescible waste (prohibited in U10c and Area 6 Landfills).

Hazardous waste per NAC 444.580

PCB waste regulated by TSCA

Waste containing free liquids

TSCA-regulated

Waste failing the "no added radioactivity" per the POC requirement.

Friable asbestos (prohibited in U10c and Area 6 Landfills)

Hydrocarbon soil at >100 ppm TPH (prohibited in 23, allowed in U10c provided less than 50 cubic yards/week are disposed)

Corrective Actions Taken: (description, name, date, who notified):

INSPECTED BY (date/time):



LANDFILL DAILY ACCESS REGISTER

DATE: 6-17-02(check one) Area 9 - U10c Area 6 Hydrocarbon Area 23 Landfill

WASTE GENERATOR Name, Phone #	WASTE ORIGIN Area, Building	WASTE CODE*	TICKET NUMBER	NET WEIGHT (lbs)	TIME IN	TIME OUT	DRIVER Last Name, Initials
BN	A ██████████	C	18	3760	13:05	13:20	JONES, S ✓
BN	A-12	C	19	2,320	13:15	13:30	TOLLADAY, C ✓
BN	A-12	C	20	35,267	13:06	14:05	JONES, S ✓
BN	A-12	C	21	3124	2:05	2:15	Wright, R. ✓
BN	A-12	C	22	2,920	2:15	2:30	TOLLADAY, C ✓
BN	A-12	C	23	1451	2:20	2:35	LAMANNA, M ✓
M. Ke Kruzic	A27 M4/8T	C	24	44,000	2:35	2:50	KACZAY K ✓
BN	A-12	C	25	1775	14:55	15:10	JONES, S ✓
BN	A-12	C	26	5,080	3:15	3:30	TOLLADAY, C ✓

*Waste Codes: ASB - Asbestos; C - Construction; H - Hydrocarbon; P - Putrescible; NP - Non-Putrescible; S - Sewage Sludge; F - FFACO

INSPECTION INFORMATION

Site Conditions:

Do berms/walls need repair? No Yes

Does cover need repair /

evidence of settling? No Yes

Does fence need repair? No Yes

Does road(s) need repair? No Yes

Has litter accumulated? No Yes

Has water accumulated? No Yes

Corrective Actions Needed:

Corrective Actions Taken: (description, name, date):

INSPECTED BY
(date/time):

Random Load Inspection: Ticket Number:

No prohibited waste was found

Yes, the prohibited waste(s) identified below were found.

- Putrescible waste (prohibited in U10c and Area 6 Landfills).
- Hazardous waste per NAC 444.580
- PCB waste regulated by TSCA
- Waste containing free liquids
- TSCA-regulated
- Waste failing the "no added radioactivity" per the POC requirement.
- Friable asbestos (prohibited in U10c and Area 6 Landfills)
- Hydrocarbon soil at >100 ppm TPH (prohibited in 23, allowed in U10c provided less than 50 cubic yards/week are disposed)

Corrective Actions Taken: (description, name, date, who notified):

INSPECTED BY (date/time):

SWO USE (Circle One Area) AREA

23

6

9

LANDFILL

For waste characterization, approval, and/or assistance, contact Solid Waste Operation (SWO) at 5-7898.

REQUIRED: WASTE GENERATOR INFORMATION

(This form is for rolloffs, dump trucks, and other onsite disposal of materials.)

Waste Generator: Mike Kruzin

Phone Number: 5-7396

Location / Origin: Area 27 Maintenance Yard / Excavation

CAU 326

Waste Category: (check one)

 Commercial Industrial

6/18/12

Waste Type:

 NTS Putrescible

(check one)

 Non-Putrescible Asbestos Containing Material FFACO-onsite WAC Exception FFACO-offsite Historic DOE/NV

Pollution Prevention Category: (check one)

 Environmental management Defense Projects

Pollution Prevention Category: (check one)

 Clean-Up Routine

Method of Characterization: (check one)

 Sampling & Analysis Process Knowledge Contents

Prohibited Waste at all three NTS landfills: Radioactive waste; RCRA waste; Hazardous waste; Free liquids, PCBs above TSCA regulatory levels; and Medical wastes (needles, sharps, bloody clothing).

Additional Prohibited Waste at the Area 9 U10c Landfill: Sewage Sludge; Animal carcasses; Wet garbage (food waste); and Friable asbestos

REQUIRED: WASTE CONTENTS ALLOWABLE WASTES

Check all allowable wastes that are contained within this load:

NOTE: Waste disposed at the Area 6 Hydrocarbon Landfill must have come into contact with petroleum hydrocarbons or coolants such as: gasoline (no benzene, lead); jet fuel; diesel fuel; lubricants and hydraulics; kerosene; asphaltic petroleum hydrocarbon; and ethylene glycol.

Acceptable waste at any NTS landfill:	<input type="checkbox"/> Paper	<input type="checkbox"/> Rocks / unaltered geologic materials	<input type="checkbox"/> Empty containers		
<input type="checkbox"/> Asphalt	<input type="checkbox"/> Metal	<input type="checkbox"/> Wood	<input type="checkbox"/> Soil	<input type="checkbox"/> Rubber (excluding tires)	<input type="checkbox"/> Demolition debris
<input type="checkbox"/> Plastic	<input type="checkbox"/> Wire	<input type="checkbox"/> Cable	<input type="checkbox"/> Cloth	<input type="checkbox"/> Insulation (non-Asbestosform)	<input type="checkbox"/> Cement & concrete
<input type="checkbox"/> Manufactured items: (swamp coolers, furniture, rugs, carpet, electronic components, PPE, etc.)					

Additional waste accepted at the Area 23 Mercury Landfill: Office waste Food Waste Animal Carcasses Asbestos: Friable Non-Friable (contact SWO if regulated load) Quantity: _____

Additional waste accepted at the Area 9 U10c Landfill:

<input type="checkbox"/> Non-friable asbestos	<input type="checkbox"/> Drained automobiles and military vehicles	<input type="checkbox"/> Solid fractions from sand/oil/water separators
<input type="checkbox"/> Light ballasts (contact SWO)	<input type="checkbox"/> Drained fuel filters (gas & diesel)	<input type="checkbox"/> Deconned Underground and Above Ground
<input type="checkbox"/> Hydrocarbons (contact SWO)	<input type="checkbox"/> Cloth	<input type="checkbox"/> Tanks

Additional waste accepted at the Area 6 Hydrocarbon Landfill:

<input type="checkbox"/> Septic sludge	<input type="checkbox"/> Rags	<input type="checkbox"/> Drained fuel filters (gas & diesel)	<input type="checkbox"/> Crushed non-ferrous plated oil filters
<input type="checkbox"/> Plants	<input type="checkbox"/> Cloth	<input type="checkbox"/> Sludge from sand/oil/water separators	<input type="checkbox"/> PCBs below 50 parts per million

REQUIRED: WASTE GENERATOR SIGNATURE

Initials: _____ (If initialed, no radiological clearance is necessary.)

The above mentioned waste was generated outside of a Controlled Waste Management knowledge, does not contain radiological materials.

To the best of my knowledge, the waste described above contains only those materials. I have verified this through the waste characterization method identified above prohibited and allowable waste items.

Print Name: Michael Kruzin

Signature: _____ /s/ Signature on file Date: 6/11/02

Note: Food waste, office trash and/or animal carcasses are considered not to contain added radioactivity, and therefore do not require a radiological clearance.

SWO USE ONLY

Load Weight (net from scale or estimate):

43,000

Signature of Certifier: _____

/s/ Signature on file

Radiation Survey Release for Waste Disposal

RCT Initials

 This container/load is free of external radioactive contamination. This container/load is exempt from survey due to process knowledge and origin. This container/load is free of radioactive contamination based on radioanalysis.

S/Signature on file

DATE: 6/11/02

BY: Michael Kruzin

Bechtel Nevada**NTS Landfill Load Verification**

(Waste definitions are available on page 2)

(12)

SWO USE (Circle One Area) AREA

23

6

9

LANDFILL

For waste characterization, approval, and/or assistance, contact Solid Waste Operation (SWO) at 5-7898.

REQUIRED: WASTE GENERATOR INFORMATION

(This form is for rolloffs, dump trucks, and other onsite disposal of materials.)

Waste Generator: Mike KruzicPhone Number: 5-7398Location / Origin: Area 27 Maintenance Yard / ExcavationCEU 326

Waste Category: (check one)	<input type="checkbox"/> Commercial	<input checked="" type="checkbox"/> Industrial <u>6561R/1-2</u>		
Waste Type: (check one)	<input checked="" type="checkbox"/> NTS <u>1/11/02</u>	<input type="checkbox"/> Putrescible	<input checked="" type="checkbox"/> FFACO-on-site	<input type="checkbox"/> WAC Exception
	<input type="checkbox"/> Non-Putrescible	<input type="checkbox"/> Asbestos Containing Material	<input type="checkbox"/> FFACO-offsite	<input type="checkbox"/> Historic DOE/NV
Pollution Prevention Category: (check one)	<input checked="" type="checkbox"/> Environmental management			
Pollution Prevention Category: (check one)	<input checked="" type="checkbox"/> Clean-Up			
Method of Characterization: (check one)	<input checked="" type="checkbox"/> Sampling & Analysis			
Prohibited Waste at all three NTS landfills:	Radioactive waste; RCRA waste; Hazardous waste; Free liquids, PCBs above TSCA regulatory levels-, and Medical wastes (needles, sharps, bloody clothing).			

Additional Prohibited Waste: Sewage Sludge; Animal carcasses-, Wet garbage (food waste); and Friable asbestos at the Area 9 U10c Landfill:

REQUIRED: WASTE CONTENTS ALLOWABLE WASTES

Check all allowable wastes that are contained within this load:

NOTE: Waste disposed at the Area 6 Hydrocarbon Landfill must have come into contact with petroleum hydrocarbons or coolants such as: gasoline (no benzene, lead); jet fuel; diesel fuel; lubricants and hydraulics; kerosene; asphaltic petroleum hydrocarbon; and ethylene glycol.				
Acceptable waste at any NTS landfill: <input type="checkbox"/> Paper <input type="checkbox"/> Rocks / unaltered geologic materials <input type="checkbox"/> Empty containers				
<input type="checkbox"/> Asphalt	<input type="checkbox"/> Metal	<input type="checkbox"/> Wood	<input checked="" type="checkbox"/> Soil	<input type="checkbox"/> Rubber (excluding tires) <input type="checkbox"/> Demolition debris
<input type="checkbox"/> Plastic	<input type="checkbox"/> Wire	<input type="checkbox"/> Cable	<input type="checkbox"/> Cloth	<input type="checkbox"/> Insulation (non-Asbestosform) <input type="checkbox"/> Cement & concrete
<input type="checkbox"/> Manufactured items: (swamp coolers, furniture, rugs, carpet, electronic components, PPE, etc.)				

Additional waste accepted at the Area 23 Mercury Landfill: Office waste Food Waste Animal Carcasses Asbestos: Friable Non-Friable (contact SWO if regulated load) Quantity: _____

Additional waste accepted at the Area 9 U10c Landfill:

<input type="checkbox"/> Non-friable asbestos	<input type="checkbox"/> Drained automobiles and military vehicles	<input type="checkbox"/> Solid fractions from sand/oil/water separators
<input type="checkbox"/> Light ballast (contact SWO)	<input type="checkbox"/> Drained fuel filters (gas & diesel)	<input type="checkbox"/> Deconned Underground and Above Ground
<input type="checkbox"/> Hydrocarbons (contact SWO)		<input type="checkbox"/> Tanks

Additional waste accepted at the Area 6 Hydrocarbon Landfill:

<input type="checkbox"/> Septic sludge	<input type="checkbox"/> Rags	<input type="checkbox"/> Drained fuel filters (gas & diesel)	<input type="checkbox"/> Crushed non-ferne plated oil filters
<input type="checkbox"/> Plants		<input type="checkbox"/> Sludge from sand/oil/water separators	<input type="checkbox"/> PCBs below 50 parts per million

REQUIRED: WASTE GENERATOR SIGNATURE

Initials: _____ (If initialed, no radiological clearance is necessary.)

The above mentioned waste was generated outside of a Controlled Waste Management site, I have verified this through the waste characterization method identified above, knowledge, does not contain radiological materials.

To the best of my knowledge, the waste described above contains only those materials. I have verified this through the waste characterization method identified above, prohibited and allowable waste items.

Print Name: Michael KruzicSignature: /s/ Signature on file Date: 6/11/02

Note: Food waste, office trash and/or animal carcasses are considered not to contain added radioactivity, and therefore do not require a radiological clearance.

SWO USE ONLYLoad Weight (net from scale or estimate): 45,000 Signature of Certifier: /s/ Signature on file**Radiation Survey Release for Waste Disposal**

RCT Initials

 This container/load is free of external radioactive contamination. This container/load is exempt from survey due to process knowledge and origin. This container/load is free of radioactive contamination based on radioassay.SIGNATURE: Michael KruzicDATE: 6-11-02

SW-0544 (0909)

Bechtel Nevada**NTS Landfill Load Verification**

(Waste definitions are available on page 2)

SWO USE (Circle One Area) AREA

23

6

9

LANDFILL

For waste characterization, approval, and/or assistance, contact Solid Waste Operation (SWO) at 5-7898.

REQUIRED: WASTE GENERATOR INFORMATION

(This form is for rolloffs, dump trucks, and other onsite disposal of materials.)

Waste Generator: Mike KruzicPhone Number: 5-7396Location / Origin: Area 27 Maintenance Yard / ExcavationCM326

Waste Category: (check one)

 Commercial Industrial6/18/02

Waste Type:

 NTS Kew7/10/02 Putrescible FFACO-onsite WAC Exception

(check one)

 Non-Putrescible Asbestos Containing Material FFACO-offsite Historic DOE/NV

Pollution Prevention Category: (check one)

 Environmental management Defense Projects

Pollution Prevention Category: (check one)

 Clean-Up Routine

Method of Characterization: (check one)

 Sampling & Analysis Process Knowledge Contents

Prohibited Waste Radicative waste; RCRA waste; Hazardous waste; Free liquids, PCBs above TSCA regulatory levels; and Medical at all three NTS landfills: wastes (needles, sharps, bloody clothing).

Additional Prohibited Waste Sewage Sludge; Animal carcasses; Wet garbage (food waste); and Friable asbestos at the Area 9 U10c Landfill:

REQUIRED: WASTE CONTENTS ALLOWABLE WASTES

Check all allowable wastes that are contained within this load:

NOTE: Waste disposed at the Area 6 Hydrocarbon Landfill must have come into contact with petroleum hydrocarbons or coolants such as: gasoline (no benzene, lead); jet fuel; diesel fuel; lubricants and hydraulics; kerosene; asphaltic petroleum hydrocarbon; and ethylene glycol.

Acceptable waste at any NTS landfill:

 Paper Rocks / unaltered geologic materials Empty containers Asphalt Metal Wood Soil Rubber (excluding tires) Demolition debris Plastic Wire Cable Cloth Insulation (non-Asbestosform) Cement & concrete Manufactured items: (swamp coolers, furniture, rugs, carpet, electronic components, PPE, etc.)Additional waste accepted at the Area 23 Mercury Landfill: Office waste Food Waste Animal Carcasses Asbestos: Friable Non-Friable (contact SWO if regulated load) Quantity: _____

Additional waste accepted at the Area 9 U10c Landfill:

 Non-friable asbestos Drained automobiles and military vehicles Solid fractions from sand/oil/water separators Light ballasts (contact SWO) Drained fuel filters (gas & diesel) Deconned Underground and Above Ground Hydrocarbons (contact SWO) Tanks

Additional waste accepted at the Area 6 Hydrocarbon Landfill:

 Septic sludge Drained fuel filters (gas & diesel) Crushed non-ferme plated oil filters Plants Sludge from sand/oil/water separators PCBs below 50 parts per million**REQUIRED: WASTE GENERATOR SIGNATURE**

Initials: _____ (If initialed, no radiological clearance is necessary.)

The above mentioned waste was generated outside of a Controlled Waste Management knowledge, does not contain radiological materials.

To the best of my knowledge, the waste described above contains only those materials. I have verified this through the waste characterization method identified above prohibited and allowable waste items.

Print Name: Michael Kruzic

Signature: _____

Date: 6/11/02

Note: Food waste, office trash and/or animal carcasses are considered not to contain added radioactivity, and therefore do not require a radiological clearance.

SWO USE ONLYLoad Weight (net from scale or estimate): 44,000

Signature of Certifier: _____

/s/ Signature on file

Radiation Survey Release for Waste Disposal

RCT Initials

 This container/load is free of external radioactive contamination. This container/load is exempt from survey due to process knowledge and origin. This container/load is free of radioactive contamination based on radionuclide analysis.SIGNATURE: Michael KruzicDATE: 6-11-02

PHONE NUMBER

/s/ Signature on file

SWO USE (Circle One Area) AREA

23

6

9

LANDFILL

For waste characterization, approval, and/or assistance, contact Solid Waste Operation (SWO) at 5-7898.

REQUIRED: WASTE GENERATOR INFORMATION

(This form is for rolloffs, dump trucks, and other onsite disposal of materials.)

Waste Generator: Mike Krusic

Phone Number: 5-7396

Location / Origin: Area 27 Maintenance Yard / Excavation

6/11/02

Waste Category: (check one)

 Commercial Industrial

6/11/02

Waste Type:

(check one)

 NTS

6/11/02

 Non-Putrescible Putrescible FFACO-onsite WAC Exception Asbestos Containing Material FFACO-offsite Historic DOE/INV

Pollution Prevention Category: (check one)

 Environmental management Defense Projects

Pollution Prevention Category: (check one)

 Clean-Up Routine

Method of Characterization: (check one)

 Sampling & Analysis Process Knowledge Contents

Prohibited Waste at all three NTS landfills: Radioactive waste; RCRA waste; Hazardous waste; Free liquids, PCBs above TSCA regulatory levels-, and Medical wastes (needles, sharps, bloody clothing).

Additional Prohibited Waste at the Area 9 U10c Landfill: Sewage Sludge; Animal carcasses-; Wet garbage (food waste); and Friable asbestos

REQUIRED: WASTE CONTENTS ALLOWABLE WASTES

Check all allowable wastes that are contained within this load:

NOTE: Waste disposed at the Area 6 Hydrocarbon Landfill must have come into contact with petroleum hydrocarbons or coolants such as: gasoline (no benzene, lead); jet fuel; diesel fuel; lubricants and hydraulics; kerosene; asphaltic petroleum hydrocarbon; and ethylene glycol.

Acceptable waste at any NTS landfill:	<input type="checkbox"/> Paper	<input type="checkbox"/> Rocks / unaltered geologic materials	<input type="checkbox"/> Empty containers
<input type="checkbox"/> Asphalt	<input type="checkbox"/> Metal	<input type="checkbox"/> Soil	<input type="checkbox"/> Rubber (excluding tires)
<input type="checkbox"/> Plastic	<input type="checkbox"/> Wire	<input type="checkbox"/> Cable	<input type="checkbox"/> Insulation (non-Asbestosform)
<input type="checkbox"/> Manufactured items: (swamp coolers, furniture, rugs, carpet, electronic components, PPE, etc.)			

Additional waste accepted at the Area 23 Mercury Landfill: Office waste Food Waste Animal Carcasses Asbestos: Friable Non-Friable (contact SWO if regulated load) Quantity: _____

Additional waste accepted at the Area 9 U10c Landfill:

<input type="checkbox"/> Non-friable asbestos	<input type="checkbox"/> Drained automobiles and military vehicles	<input type="checkbox"/> Solid fractions from sand/oil/water separators
<input type="checkbox"/> Light ballasts (contact SWO)	<input type="checkbox"/> Drained fuel filters (gas & diesel)	<input type="checkbox"/> Deconned Underground and Above Ground
<input type="checkbox"/> Hydrocarbons (contact SWO)		<input type="checkbox"/> Tanks

Additional waste accepted at the Area 6 Hydrocarbon Landfill:

<input type="checkbox"/> Septic sludge	<input type="checkbox"/> Rags	<input type="checkbox"/> Drained fuel filters (gas & diesel)	<input type="checkbox"/> Crushed non-ferne plated oil filters
<input type="checkbox"/> Plants		<input type="checkbox"/> Sludge from sand/oil/water separators	<input type="checkbox"/> PCBs below 50 parts per million

REQUIRED: WASTE GENERATOR SIGNATURE

Initials: _____ (If initiated, no radiological clearance is necessary.)

The above mentioned waste was generated outside of a Controlled Waste Management facility, and to my knowledge, does not contain radiological materials.

To the best of my knowledge, the waste described above contains only those materials I have verified this through the waste characterization method identified above prohibited and allowable waste items.

Print Name: Michael Krusic

/s/ Signature on file

Signature: _____ Date: 6/11/02

Note: Food waste, office trash and/or animal carcasses are considered not to contain added radioactivity, and therefore do not require a radiological clearance.

SWO USE ONLY

Load Weight (net from scale or estimate): 44,000

Signature of Certifier: _____

Radiation Survey Release for Waste Disposal

RCT Initials

 This container/load is free of external radioactive contamination. This container/load is exempt from survey due to process knowledge and origin. This container/load is free of radioactive contamination based on radioanalysis.

SIGNATURE: /s/ Signature on file

44,000 lbs

DATE: 6/11/02

BN-0544-0000



LANDFILL DAILY ACCESS REGISTER

DATE: 7/2/02

(check one) Area 9 - U10c Area 6 Hydrocarbon Area 23 Landfill

MS 7/3/02 FSW 8/12/02

WASTE GENERATOR Name, Phone #	WASTE ORIGIN Area, Building	WASTE CODE*	TICKET NUMBER	NET WEIGHT (lbs)	TIME IN	TIME OUT	DRIVER Last Name, Initials
BIN 1.	A-4	H.C.	I	4,500	2:30	2:45	HARRIS G

*Waste Codes: ASB - Asbestos; C - Construction; H - Hydrocarbon; P - Putrescible; NP - Non-Putrescible; S - Sewage Sludge; F - FFACO

INSPECTION INFORMATION

Site Conditions:

Do berms/walls need repair? No YesDoes cover need repair /
evidence of settling? No YesDoes fence need repair? No YesDoes road(s) need repair? No YesHas litter accumulated? No YesHas water accumulated? No Yes

Corrective Actions Needed:

Corrective Actions Taken: (description, name, date):

INSPECTED BY
(date/time):

/s/ Signature on file

7-26-02

Random Load Inspection: Ticket Number: _____

 No prohibited waste was found Yes, the prohibited waste(s) identified below were found. Putrescible waste (prohibited in U10c and Area 6 Landfills). Hazardous waste per NAC 444.580 PCB waste regulated by TSCA Waste containing free liquids TSCA-regulated Waste failing the "no added radioactivity" per the POC requirement. Friable asbestos (prohibited in U10c and Area 6 Landfills) Hydrocarbon soil at >100 ppm TPH (prohibited in 23, allowed in U10c provided less than 50 cubic yards/week are disposed)

Corrective Actions Taken: (description, name, date, who notified):

INSPECTED BY (date/time):

SWO USE (Circle One Area) AREA

23

6

9

LANDFILL

For waste characterization, approval, and/or assistance, contact Solid Waste Operation (SWO) at 5-7898.

REQUIRED: WASTE GENERATOR INFORMATION

(This form is for rolloffs, dump trucks, and other onsite disposal of materials.)

Waste Generator: Mike Kruzel/Kevin Campbell C4U 326 Phone Number: 5-6087Location / Origin: Area 6 CP bus parking lot (6 drums of soil)

Waste Category: (check one)	<input type="checkbox"/> Commercial	<input checked="" type="checkbox"/> Industrial		
Waste Type: (check one)	<input checked="" type="checkbox"/> NTS KEW	<input type="checkbox"/> Putrescible	<input checked="" type="checkbox"/> FFACO-onsite	<input type="checkbox"/> WAC Exception
	<input type="checkbox"/> Non-Putrescible	<input type="checkbox"/> Asbestos Containing Material	<input type="checkbox"/> FFACO-offsite	<input type="checkbox"/> Historic DOE/NV
Pollution Prevention Category: (check one)	<input checked="" type="checkbox"/> Environmental management			
Pollution Prevention Category: (check one)	<input checked="" type="checkbox"/> Clean-Up			
Method of Characterization: (check one)	<input checked="" type="checkbox"/> Sampling & Analysis			
Prohibited Waste at all three NTS landfills:	Radioactive waste; RCRA waste; Hazardous waste; Free liquids, PCBs above TSCA regulatory levels-, and Medical wastes (needles, sharps, bloody clothing).			
Additional Prohibited Waste at the Area 9 U10c Landfill:	Sewage Sludge; Animal carcasses-, Wet garbage (food waste); and Friable asbestos			

REQUIRED: WASTE CONTENTS ALLOWABLE WASTES

Check all allowable wastes that are contained within this load:

NOTE: Waste disposed at the Area 6 Hydrocarbon Landfill must have come into contact with petroleum hydrocarbons or coolants such as: gasoline (no benzene, lead); jet fuel; diesel fuel; lubricants and hydraulics; kerosene; asphaltic petroleum hydrocarbon; and ethylene glycol.

Acceptable waste at any NTS landfill:	<input type="checkbox"/> Paper	<input type="checkbox"/> Rocks / unaltered geologic materials	<input type="checkbox"/> Empty containers		
<input type="checkbox"/> Asphalt	<input type="checkbox"/> Metal	<input type="checkbox"/> Wood	<input checked="" type="checkbox"/> Soil	<input type="checkbox"/> Rubber (excluding tires)	<input type="checkbox"/> Demolition debris
<input type="checkbox"/> Plastic	<input type="checkbox"/> Wire	<input type="checkbox"/> Cable	<input type="checkbox"/> Cloth	<input type="checkbox"/> Insulation (non-Asbestosform)	<input type="checkbox"/> Cement & concrete
<input type="checkbox"/> Manufactured items: (swamp coolers, furniture, rugs, carpet, electronic components, PPE, etc.)					

Additional waste accepted at the Area 23 Mercury Landfill: Office waste Food Waste Animal Carcasses Asbestos: Friable Non-Friable (contact SWO if regulated load) Quantity: _____

Additional waste accepted at the Area 9 U10c Landfill:

<input type="checkbox"/> Non-friable asbestos	<input type="checkbox"/> Drained automobiles and military vehicles	<input type="checkbox"/> Solid fractions from sand/oil/water separators
<input type="checkbox"/> Light ballasts (contact SWO)	<input type="checkbox"/> Drained fuel filters (gas & diesel)	<input type="checkbox"/> Deconned Underground and Above Ground
<input checked="" type="checkbox"/> Hydrocarbons (contact SWO)		<input type="checkbox"/> Tanks

Additional waste accepted at the Area 6 Hydrocarbon Landfill:

<input type="checkbox"/> Septic sludge	<input type="checkbox"/> Rags	<input type="checkbox"/> Drained fuel filters (gas & diesel)	<input type="checkbox"/> Crushed non-terne plated oil filters
<input type="checkbox"/> Plants		<input type="checkbox"/> Sludge from sand/oil/water separators	<input type="checkbox"/> PCBs below 50 parts per million

REQUIRED: WASTE GENERATOR SIGNATURE

Initials: KBC (If initiated, no radiological clearance is necessary.)

The above mentioned waste was generated outside of a Controlled Waste Management Area (CWMA) and to the best of my knowledge, does not contain radiological materials.

To the best of my knowledge, the waste described above contains only the site. I have verified this through the waste characterization method identifying prohibited and allowable waste items.

Print Name: Eugene Hayes & Jerel NelsonSignature: /s/ Signature on fileDate: 7/20/02

Radiation Survey Release for Waste Disposal	
RCT Initials	
<input type="checkbox"/>	This container/load is free of external radioactive contamination.
<input checked="" type="checkbox"/>	This container/load is exempt from survey due to process knowledge and origin.
<input type="checkbox"/>	This container/load is free of radioactive contamination based on radioanalysis.
SIGNATURE	/s/ Signature on file
DATE: <u>7/20/02</u>	
BNSF 0918 (09/02)	

Note: Food waste, office trash and/or animal carcasses are considered not to contain added radioactivity, and therefore do not require a radiological clearance.

SWO USE ONLY

Load Weight (net from scale or estimate): 4,500Signature of Certifier: /s/ Signature on file

DATE: 8/14/02

WASTE GENERATOR
Name, Phone #WASTE ORIGIN
Area, Building

WASTE CODE*

TICKET
NUMBERNET WEIGHT
(lbs)TIME
INTIME
OUTDRIVER
Last Name, Initials

GS 8/15/02

Area 9 - U10c

Area 6 Hydrocarbon

Area 23 Landfills

H.C. 5 245 3:00

Harris E

*Waste Codes: ASB - Asbestos; C - Construction; H - Hydrocarbon; P - Putrescible; NP - Non-Putrescible; S - Sewage Sludge; F - FFACO

INSPECTION INFORMATION

Site Conditions:

Do berms/walls need repair? No YesDoes cover need repair/
evidence of settling? No YesDoes fence need repair? No YesDoes road(s) need repair? No YesHas litter accumulated? No YesHas water accumulated? No Yes

Corrective Actions Needed:

Corrective Actions Taken: (description, name, date):

INSPECTED BY
(date/time):

/s/ Signature on file

8-14-02

INSPECTED BY (date/time):

J. CO

(check one) I

Area 9 - U10c

Area 6 Hydrocarbon

Area 23 Landfills

DRIVER
Last Name, Initials

GS 8/15/02

Harris E

GS 8/15/02

Bechtel Nevada**NTS Landfill Load Verification**

(Waste definitions are available on page 2)

SWO USE (Circle One Area) AREA**23****(6)****9****LANDFILL**

For waste characterization, approval, and/or assistance, contact Solid Waste Operation (SWO) at 5-7898.

REQUIRED: WASTE GENERATOR INFORMATION

(This form is for rolloffs, dump trucks, and other onsite disposal of materials.)

Waste Generator: Don Cox, Solid Waste Operations Phone Number: 5-4780Location / Origin: Area 6, CAU 326 / Parking lot behind Fire Station

Waste Category: (check one)	<input type="checkbox"/> Commercial	<input checked="" type="checkbox"/> Industrial <i>9/5 8/15/02</i>		
Waste Type: (check one)	<input checked="" type="checkbox"/> NTS	<input type="checkbox"/> Putrescible	<input checked="" type="checkbox"/> FFACO-onsite	<input type="checkbox"/> WAC Exception
	<input type="checkbox"/> Non-Putrescible	<input type="checkbox"/> Asbestos Containing Material	<input type="checkbox"/> FFACO-offsite	<input type="checkbox"/> Historic DOE/NV
Pollution Prevention Category: (check one)	<input checked="" type="checkbox"/> Environmental management			
Pollution Prevention Category: (check one)	<input checked="" type="checkbox"/> Clean-Up			
Method of Characterization: (check one)	<input type="checkbox"/> Sampling & Analysis			
<input checked="" type="checkbox"/> Process Knowledge				
<input type="checkbox"/> Contents				

Prohibited Waste at all three NTS landfills: Radioactive waste; RCRA waste; Hazardous waste; Free liquids, PCBs above TSCA regulatory levels; and Medical wastes (needles, sharps, bloody clothing).Additional Prohibited Waste: Sewage Sludge; Animal carcasses; Wet garbage (food waste); and Friable asbestos at the Area 9 U10c Landfill:**REQUIRED: WASTE CONTENTS ALLOWABLE WASTES**

Check all allowable wastes that are contained within this load:

NOTE: Waste disposed at the Area 6 Hydrocarbon Landfill must have come into contact with petroleum hydrocarbons or coolants such as: gasoline (no benzene, lead); jet fuel; diesel fuel; lubricants and hydraulics; kerosene; asphaltic petroleum hydrocarbon; and ethylene glycol.

Acceptable waste at any NTS landfill:	<input type="checkbox"/> Paper	<input type="checkbox"/> Rocks / unaltered geologic materials	<input type="checkbox"/> Empty containers		
<input type="checkbox"/> Asphalt	<input type="checkbox"/> Metal	<input type="checkbox"/> Wood	<input type="checkbox"/> Soil	<input type="checkbox"/> Rubber (excluding tires)	<input type="checkbox"/> Demolition debris
<input type="checkbox"/> Plastic	<input type="checkbox"/> Wire	<input type="checkbox"/> Cable	<input type="checkbox"/> Cloth	<input type="checkbox"/> Insulation (non-Asbestosform)	<input type="checkbox"/> Cement & concrete
<input type="checkbox"/> Manufactured items: (swamp coolers, furniture, rugs, carpet, electronic components, PPE, etc.)					

Additional waste accepted at the Area 23 Mercury Landfill: Office waste Food Waste Animal Carcasses Asbestos: Friable Non-Friable (contact SWO if regulated load) Quantity: _____

Additional waste accepted at the Area 9 U10c Landfill:

<input type="checkbox"/> Non-friable asbestos	<input type="checkbox"/> Drained automobiles and military vehicles	<input type="checkbox"/> Solid fractions from sand/oil/water separators
<input type="checkbox"/> Light ballasts (contact SWO)	<input type="checkbox"/> Drained fuel filters (gas & diesel)	<input type="checkbox"/> Deconned Underground and Above Ground
<input type="checkbox"/> Hydrocarbons (contact SWO)		<input type="checkbox"/> Tanks

Additional waste accepted at the Area 6 Hydrocarbon Landfill: Soil

<input type="checkbox"/> Septic sludge	<input type="checkbox"/> Rags	<input type="checkbox"/> Drained fuel filters (gas & diesel)	<input type="checkbox"/> Crushed non-ferne plated oil filters
<input type="checkbox"/> Plants		<input type="checkbox"/> Sludge from sand/oil/water separators	<input type="checkbox"/> PCBs below 50 parts per million

REQUIRED: WASTE GENERATOR SIGNATUREInitials: DC (If Initiated, no radiological clearance is necessary.)

The above mentioned waste was generated outside of a Controlled Waste Management Area (CWMA) and to the best of my knowledge, does not contain radiological materials.

To the best of my knowledge, the waste described above contains only those materials that are allowed for disposal at this site. I have verified this through the waste characterization method identified above and a review of the above-mentioned prohibited and allowable waste items.

Print Name: Don FoxSignature: /s/ Signature on fileDate: 12 AUG. 02If applicable, place BN-0646,
"Radiological Release Sticker"
here. Onsite use only.

Note: Food waste, office trash and/or animal carcasses are considered not to contain added radioactivity, and therefore do not require a radiological clearance.

SWO USE ONLYLoad Weight (net from scale or estimate): 26,022

Signature of Certifier: _____

/s/ Signature on file

APPENDIX E

NEVADA DIVISION OF ENVIRONMENTAL PROTECTION CORRESPONDENCE

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PETER C. MURROS, Director
ALLEN BIACCI, Administrator
17751 687-4670
TDD 687-4678

Administration
Water Pollution Control
Facsimile 687-5856

Mining Regulation and Reclamation
Facsimile 684-5259

STA KI	ACTION INFO MGR AMBFS AMTS AMNS AMEM
	Wm
	EBS



Water Quality Planning
Facsimile 687-6396

DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL PROTECTION
333 W. Nye Lane, Room 138
Carson City, Nevada 89706-0851

COPY

April 9, 1999

Frank Di Sanza
Waste Management Division
U.S. Department of Energy
Nevada Operations Office
P.O. Box 98518
Las Vegas, NV 89193-8518

RE: Status of Recently Removed Underground Storage Tanks

Dear Mr. Di Sanza:

The Department of Energy (DOE) has recently requested confirmation that the Nevada Division of Environmental Protection (NDEP) has received closure documentation concerning underground storage tanks (USTs) removed during 1998. A list of thirteen tanks in question (given below) was conveyed to NDEP during a telephone conversation. This letter serves to confirm what documentation has been received and to inform DOE of the closure status of each of these tanks.

A search of the State's underground storage tank database was initiated. The following table reflects the closure information submitted on the Underground Storage Tank Notification Forms (USEPA Form 7530).

Tank #	Tank Status	Closure Date	Disposition of Tank
6-162-3	Permanently out of use	3/10/98	Removed from ground
6-619-1	Permanently out of use	8/25/98	Removed from ground
6-619-2	Permanently out of use	9/8/98	Removed from ground
6-619-4	Permanently out of use	3/4/98	Removed from ground
6-619-5	Permanently out of use	3/4/98	Removed from ground
6-619-6	Permanently out of use	3/4/98	Removed from ground
6-CP-1B	Permanently out of use	11/12/98	Closed in place

Frank Di Sanza
April 9, 1999
Page 2

23-650-1	Permanently out of use	3/25/98	Removed from ground
23-725-1	Permanently out of use	3/23/98	Removed from ground
23-751-2	Permanently out of use	3/23/98	Removed from ground
23-751-3	Permanently out of use	3/23/98	Removed from ground
23-751-4	Permanently out of use	3/23/98	Removed from ground
27-5120-1	Permanently out of use	3/24/98	Removed from ground

With respect to tank status, these tanks are considered "closed" and NDEP requires no further information.

As you may know, upon tank removal state regulations require that soil samples be collected to test for the presence of Total Petroleum Hydrocarbons. Results of the sampling are normally submitted in a closure report, which also documents details of the removal process. If contamination at a level above the state action level of 100 milligrams per kilogram is detected at a former UST site, a site investigation is initiated and related documentation is submitted by the responsible party to NDEP. A review of files containing former UST site information and closure reports was undertaken to determine the status of each.

Tank #	Sampling Results and Site Status	Date of Sampling	Date of Report
6-162-3	No contamination above action level detected No further action required	03/10/98	05/07/98
6-619-1	No contamination above action level detected No further action required	08/25/98	11/10/98
6-619-2	No contamination above action level detected No further action required	09/09/98	11/10/98
6-619-4	No contamination above action level detected No further action required	03/04/98	06/09/98
6-619-5	No contamination above action level detected No further action required	03/04/98	06/09/98
6-619-6	No contamination above action level detected No further action required	03/04/98	06/09/98

Frank Di Sanza
April 9, 1999
Page 3

6-CP-1B	No contamination above action level detected ***SEE NOTE BELOW***	11/16/98	12/10/98
23-650-1	No contamination above action level detected No further action required	03/25/98	05/07/98
23-725-1	No contamination above action level detected No further action required	03/23/98	05/07/98
23-751-2	No contamination above action level detected No further action required	03/23/98	05/07/98
23-751-3	No contamination above action level detected No further action required	03/23/98	05/07/98
23-751-4	No contamination above action level detected No further action required	03/23/98	05/07/98
27-5120-1	No contamination above action level detected No further action required	03/24/98	05/07/98

Closure reports for all thirteen former UST sites indicate that no contamination above the state action level was detected during the required sampling. The closure report for 6-CP-1B, which was closed in place, indicates that two soil samples were collected using a hollow stem auger from below the ends of the tank. However the map shows borehole locations to the side of the tank. Please confirm that the boreholes were angle-drilled and samples collected from beneath the tank. Additionally, confirmation that a land use restriction has been instituted, which makes note of the fact that a closed-in-place UST exists at this site, is required by NDEP prior to final concurrence of site closure.

With the exception of 6-CP-1B, the NDEP requires no further action on these sites at this time. Should any subsequent information suggest that one of these tanks may have leaked and contaminated soil or groundwater, an investigation may be initiated.

If you have any questions regarding tank closure issues, please contact Sigurd Jaunarajs of my staff at (775) 687-4670, extension 3030, or if you want to inquire about site closure, please contact Clem Goewert of my staff at (702) 486-2865.

Sincerely,

/s/ Paul Liebendorfer

Paul J. Liebendorfer, P.E. ✓
Chief
Bureau of Federal Facilities

PJL/SRJ/js

cc: Dave Bedsun, DSWA
Jhon Carilli, WMD/DOE (faxed to 295-1153)
Runore Wycoff, ERD/DOE
Mike McKinnon, NDEP/LV
Karen Beckley, NDEP/CC
Clem Goewert, NDEP/LV

APPENDIX F

NEVADA ENVIRONMENTAL RESTORATION PROJECT DOCUMENT REVIEW SHEET

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NEVADA ENVIRONMENTAL RESTORATION PROJECT DOCUMENT REVIEW SHEET

1. Document Title/Number <u>Closure Report for Corrective Action Unit 326: Area 6 and 27 Release Sites, Nevada Test Site, Nevada</u>	2. Document Date <u>October 2002</u>
3. Revision Number <u>0</u>	4. Originator/Organization <u>Bechtel Nevada</u>
5. Responsible NNSA/NV ERP Project Mgr. <u>Janet Appenzeller-Wing</u>	6. Date Comments Due <u>November 13, 2002</u>
7. Review Criteria <u>Federal Facility Agreement and Consent Order</u>	
8. Reviewer/Organization/Phone No. <u>Ted Zaferatos / NDEP / (702) 486-2856</u>	9. Reviewer's Signature _____

10. Comment Number/Location	11. Type ^a	12. Comment	13. Comment Response	14. Accept
1. pg. ix last bullet item	M	This paragraph calls for clean closure and use restrictions. According to statements made in Sections 1 through 5 of the CR, CAS 27-25-01 was clean closed and did not have use restrictions imposed. Clarification of this item is required. (Also note, the Table of Contents (TOC) reference to this page is incorrect. The TOC refers to page xi instead of to page ix).	CAS 27-25-01 was clean closed by removal of all contaminated soil. No land use restrictions were implemented at this site. The last sentence of the last bullet item on page ix has been corrected to state that the CAS was clean close. The TOC has been changed to give the correct page number for the Executive Summary.	Yes
2. pg. 7 and 14, Section 2.1.2.2	M	Some words appear to be missing in the last paragraph on page 7 and continuing through the top of page 14. The information being conveyed by the last sentence in the top of paragraph, as well as the third sentence of the second paragraph and the third sentence of the third paragraph on page 14, is unclear. Clarify the meanings of these sentences.	Text describing the location, depth, TPH field screening results, and samples collected from Borehole #2 has been added. Text meaning has been clarified.	Yes
3. pg. 8 Table 1	M	The TPH Laboratory Result (mg/kg) is shown in the table as 105 for Sample ID 062501-25, whereas the laboratory data in Appendix A shows the result was actually 9,000. Verify closure conclusions once the item is corrected.	The TPH value reported in Table 1 for Sample 062501-25 has been corrected to 9,000 mg/kg. The closure conclusions and actions are still valid.	Yes

^aComment Types: M = Mandatory, S = Suggested.

10. Comment Number/ Location	11. Type ^a	12. Comment	13. Comment Response	14. Accept
4. pg. 18 Table 3	M	Comparison of data listed in this table with the laboratory data reports in Appendix A, leads to the belief that several numbers were incorrectly inserted in the table. The Total Petroleum Hydrocarbons (mg/kg) for Sample Identification Numbers 272501-04 and 272501-05 appear reversed in the table. Additionally, the Polychlorinated Biphenyls (mg/kg) value for Sample Identification 272501-02 was inserted as 0.07 whereas the Appendix A data sheets show the correct number as 0.71. The Polychlorinated Biphenyls value for CAU326-V25 (Dup of V15) was inserted as 0.50 whereas the Appendix A data sheets show the correct number as 0.05.	All values reported in Table 3 have been checked against analytical results reported in Appendix A, and corrected if necessary. The TPH values for samples 272501-04 and 272501-05 have been corrected. The PCB values for samples 272501-02, 272501-04, 272501-V01, and CAU 326-V25 have been corrected.	Yes
5. Appendix B	M	NDEP is unable to check the survey coordinates listed for the Land Use Restriction sites in the appendix. The coordinates do not appear to correlate to information received in past documents. Additionally, there appears to be a typographical error on CAS 06-25-01 N. Point 2, either on page 1 of 2, or on the accompanying figure. Page 1 shows one coordinate as 584,334.006 m E whereas the figure shows that the coordinate as E 584,334.606.	The survey coordinates and datum have been rechecked. Also, coordinates have been checked and verified by the FFACO Support Staff at International Technology Corporation. The typo has been corrected. Note: The Data Quality Objectives for CAU 326 have been included in this document as Appendix A. The Use Restriction information is now included in Appendix C of this document.	Yes
6. Data Quality Objectives (DQOs)	M	The DQOs were correctly referenced and assessed in the body of the document. Include the DQO document, as developed in the SAFER, as an appendix to the CR as required in the Standardized Outline for Closure Reports (July 17, 2001).	The DQOs as they appeared in the CAU 326 SAFER plan (NNSA/NV document number DOE/NV-751) are now included in the revision 1 of the CAU 326 Closure Report as Appendix A. References to Appendices A through E in Rev. 0 have been changed throughout the document to account for the addition of the DQOs as Appendix A.	Yes

^aComment Types: M = Mandatory, S = Suggested.

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