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ENVIRONMENTAL PROTECTION

DECISION DOCUMENT
DOCK 4 LANDFILL, SWMU J-08
Hawthorne Army Depot
Hawthorne, Nevada
September 1999

1. PURPOSE OF DECISION DOCUMENT

1.1 Introduction

This decision document describes the rationale for the remedial action at, and closure of, Solid Waste Management Unit (SWMU) J-08, Dock 4 Landfill, at the Hawthorne Army Depot (HWAD), Hawthorne, Nevada. This decision document was developed by the U.S. Army Corps of Engineers, Sacramento District (USACE), the HWAD, and Day & Zimmermann Hawthorne Corporation with support from the Nevada Department of Conservation and Natural Resources, Division of Environmental Protection (NDEP).

1.2 Site Description and Background

SWMU J-08 is located adjacent to Dock 4. Dock 4 is located north of the intersection of Pamlico Road and East Road, west of Group 9.

SWMU J-08 is described as a possible landfill. The site was identified by NDEP based on the assumption that it had been standard practice to dispose of waste materials at all of the docks. No documentation was available of the area's use as a landfill.

Tetra Tech reviewed all previous work done for the Group B SWMUs and compiled an annotated bibliography for past work (Tetra Tech, 1993).

Tetra Tech inspected the site in November 1993. As with all of the docks, there was evidence that the ground surface had been disturbed adjacent to the docks, but the disturbance was probably caused during construction of the explosion containment berms around the perimeter of the docks. It is probable that the adjacent land was used to construct the berms. Subsequently, construction materials and dunnage were probably burned adjacent to the docks. At Dock 4, nails that may have been the remains of packing materials after burning were found on the ground surface adjacent to the southeast corner of the dock.

The depth to ground water at the site was expected to be about 280 to 290 feet, based on 1974 conditions and assuming a decline in the water table since then of about 20 feet. The water level in Supply Well No. 3, located about one mile north of the site, was 4,126 feet above msl in 1974. The ground surface at the site is at an elevation of about 4,410 feet above msl.

Tetra Tech conducted a basewide ground water survey in March, 1994. Based on this survey, ground water at SWMU J-08 was estimated at a elevation of 4,125 feet msl (285 feet bgs).

1.3 Chemicals of Concern

Potential chemicals of concern at the site are listed in Table 1.

TABLE 1 - Summary of Chemicals of Concern

Chemical of Concern	Rationale Behind Designation	Reference
Metals	Possible metals disposal.	USACE 1993
Volatile Organic Compounds	Possible solvent disposal.	USACE 1993
Petroleum Hydrocarbons (added)	May have been used as a fuel for burning trash at loading dock.	Tetra Tech 1993

2. SUMMARY OF SITE RISK

Samples collected at SWMU J-08 by soil gas survey, near surface soil sampling, and subsurface soil sampling detected concentrations below closure levels for the chemicals of concern [metals, VOCs (volatile organic compounds), and TPH-diesel.

Two surface samples (SS01-1-S, SS05-1-S) had TPH-d detections at concentrations of 1.2 and 1.5 mg/kg, and are not considered of concern relative to the TPH closure goal of 100 mg/kg. Methylene chloride was detected in six samples up to 6 mg/kg and is believed to be associated with the laboratory equipment or analytical process and are not representative of soil conditions at the site.

3. SUMMARY OF REMEDIAL INVESTIGATIONS and REMEDIAL ACTIONS

3.1 Remedial Investigations

3.1.1 Objectives

The objective of the investigation at SWMU J-08 was:

- To determine the presence of metals, VOCs, and petroleum hydrocarbons present in the surface and subsurface soils at the site.

This objective was met.

3.1.2 Planned and Actual Investigation

Planned and actual field activities are described in Table 2. Figure J-08-2 shows the locations of actual field investigation activities at SWMU J-08. A permanent monument was installed and surveyed, and SWMU boundaries delineated, at the locations shown on these figures. The appendices in this report include HWAD proposed closure goals for soils, laboratory detection limits for the analyses, survey results, and photographs. All activities were conducted based on the Work Plan

(Tetra Tech, 1994a), Site Safety and Health Plan (Tetra Tech, 1994b) and the Chemical Data Acquisition Plan (Tetra Tech, 1994c).

Table 2 - Summary of Planned and Actual Field Investigations

Planned Investigation	Actual Investigation	Comments
Soil Gas Survey - 20 samples at 20 locations on west side, to 5 ft depths	Soil Gas Survey - 10 samples at 10 locations to 5 ft depths	Based upon ND results of first 10 samples, remaining 10 samples were not taken.
Near Surface Sampling - 10 soil samples at 10 locations	Near Surface Sampling - 10 soil samples at 10 locations	
Subsurface Sampling - CPT[a] sounding at 2 locations to 30 ft. CPT sampling at 3 locations to 30 ft depths, 4 samples per location	Subsurface Sampling - CPT sounding at 2 locations to 30 ft. CPT sampling at 3 locations to depths ranging from 19 to 27 ft, 2 to 3 samples per location	Based upon stratigraphy results and refusal at lower depths, 2 to 3 samples collected.
Surveying - GPS[b] at soil gas, surface sample and CPT locations	Surveying - GPS at soil gas, surface sample and CPT locations	

[a]CPT = Cone penetrometer testing
[b]GPS = Global positioning system

Soil samples collected and analyses performed include the following:

Sample Locations	Depth (ft)	Metals Analyses	BTEX Analyses	TPH-D Analyses	VOCs Analyses
Near Surface					
SS01 through SS10 (10 locations)	0.5	Y	Y	Y	N
Subsurface					
SB01	11, 15, 21	Y	N	Y	Y
SB02	10, 18	Y	N	Y	Y
SB03	10, 20, 26	Y	N	Y	Y

3.1.3 Results

Two CPT soundings to a maximum depth of 26.5 ft. were performed at the site. The stratigraphic interpretation from the CPT logs indicate layered silty sand to gravelly sand.

Table 3 lists soil gas analytical results for volatile organic compounds (VOCs), and benzene, toluene, ethylbenzene and xylene (BTEX). All results were non-detect.

Table 3 - Summary of Soil Gas Survey Analytical Results

Sample No.	Sampled Date	Sample Depth	VOCs - (ug/L) EPA Method 8010	BTEX - (ug/L) EPA Method 8020
J08-SG-01	23-Jun-94	5.0	ND[a]	ND
J08-SG-02	23-Jun-94	5.0	ND	ND
J08-SG-03	23-Jun-94	5.0	ND	ND
J08-SG-04	23-Jun-94	5.0	ND	ND
J08-SG-05	23-Jun-94	5.0	ND	ND
J08-SG-06	23-Jun-94	5.0	ND	ND
J08-SG-07	23-Jun-94	5.0	ND	ND
J08-SG-08	23-Jun-94	5.0	ND	ND
J08-SG-09	23-Jun-94	5.0	ND	ND
J08-SG-10	23-Jun-94	5.0	ND	ND

[a]ND = Below laboratory method detection limit for all analytes

Table 4 - Summary of Metals Analytical Results

Sample Number	Sampled Date	Sample Depth (ft)	Metals (mg/kg) EPA Method 6010 (Method 7471 for Hg)							
			As	Ba	Cd	Cr	Pb	Hg	Se	Ag
Near Surface Sampling										
J08-SS01-1-S	11-Jul-94	0.25 - 0.50	12	100	1.3	5.2	13	ND[a]	ND	ND
J08-SS02-1-S	11-Jul-94	0.25 - 0.50	10	91	1.2	4.8	7.2	ND	ND	ND
J08-SS03-1-S	11-Jul-94	0.25 - 0.50	6.9	73	0.7	3.0	5.4	ND	ND	ND
J08-SS04-1-S	11-Jul-94	0.25 - 0.50	5.9	67	0.9	3.3	5.8	ND	ND	ND
J08-SS05-1-S	11-Jul-94	0.25 - 0.50	11	120	1.1	4.3	6.5	ND	ND	ND
J08-SS06-1-S	11-Jul-94	0.25 - 0.50	8.4	79	1.2	3.3	7.5	ND	ND	ND
J08-SS07-1-S	11-Jul-94	0.25 - 0.50	6.9	80	0.8	3.2	ND	ND	ND	ND
J08-SS08-1-S	11-Jul-94	0.25 - 0.50	13	110	1.3	5.2	7.3	ND	ND	ND
J08-SS09-1-S	11-Jul-94	0.25 - 0.50	6.5	89	1.1	4.3	6.7	ND	ND	ND
J08-SS10-1-S	11-Jul-94	0.25 - 0.50	10	67	0.4	2.9	ND	ND	ND	ND
Subsurface Sampling										
J08-SB01-1-S	17-Aug-94	10.75 - 11.00	ND	120	0.50	9.5	11	ND	ND	ND
J08-SB01-2-S	17-Aug-94	15.25 - 15.50	ND	69	0.75	6.1	6.5	ND	ND	ND
J08-SB01-3-S	17-Aug-94	21.25 - 21.50	ND	68	0.49	6.5	9.2	ND	ND	ND
J08-SB02-1-S	17-Aug-94	10.25 - 10.50	ND	48	0.86	2.8	ND	ND	ND	ND
J08-SB02-2-S	17-Aug-94	18.25 - 18.50	ND	51	2.1	5.7	ND	ND	ND	ND
J08-SB03-1-S	18-Aug-94	10.25 - 10.50	ND	74	2.3	10.0	7.6	ND	ND	ND
J08-SB03-2-S	18-Aug-94	20.25 - 20.50	ND	57	1.7	8.6	ND	ND	ND	ND
J08-SB03-3-S	18-Aug-94	26.25 - 26.50	ND	95	1.2	5.1	ND	ND	ND	ND
Associated Background Samples	Soil Series	Mappable Units								
B14	Papoose	501	ND	100	0.84	4.6	8.2	ND	ND	ND
B15	Papoose	501	ND	74	0.68	3.6	6.9	ND	ND	N
Proposed Closure Goals			30	5600	40	80000	1000	24	400	400

[a]ND = Below laboratory method detection limit

Table 5 - Summary of BTEX, VOCs, and TPH-Diesel Analytical Results

Sample Number	Sample Date	Sample Depth (ft)	BTEX (mg/kg) Immunoassay Test	VOCs (ug/kg) EPA Method 8260	TPH-Diesel EPA Method 8015-M
Near Surface Sampling					
J08-SS01-1-S	11-Jul-94	0.25 - 0.50	>2 and <10	--	1.2
J08-SS01-1-S	11-Jul-94	0.25 - 0.50	>10 and <50 (re-run)	--	--
J08-SS02-1-S	11-Jul-94	0.25 - 0.50	<2	--	ND[a]
J08-SS03-1-S	11-Jul-94	0.25 - 0.50	>2 and <10	--	ND
J08-SS04-1-S	11-Jul-94	0.25 - 0.50	>2 and <10	--	ND
J08-SS05-1-S	11-Jul-94	0.25 - 0.50	>2 and <10	--	1.5
J08-SS06-1-S	11-Jul-94	0.25 - 0.50	>2 and <10	--	ND
J08-SS07-1-S	11-Jul-94	0.25 - 0.50	>2 and <10	--	ND
J08-SS08-1-S	11-Jul-94	0.25 - 0.50	>2 and <10	--	ND
J08-SS09-1-S	11-Jul-94	0.25 - 0.50	>2 and <10	--	ND
J08-SS10-1-S	11-Jul-94	0.25 - 0.50	>2 and <10	--	ND
Subsurface Sampling					
J08-SB01-1-S	17-Aug-94	11.00 - 11.50	--	5.7 methylene chloride	ND
J08-SB01-2-S	17-Aug-94	15.50 - 16.00	--	5.7 methylene chloride	ND
J08-SB01-3-S	17-Aug-94	21.50 - 22.00	--	6.6 methylene chloride	ND
J08-SB02-1-S	17-Aug-94	10.50 - 11.00	--	6.3 methylene chloride	ND
J08-SB02-2-S	17-Aug-94	18.50 - 19.00	--	6.3 methylene chloride	ND
J08-SB03-1-S	18-Aug-94	10.50 - 11.00	--	ND	ND
J08-SB03-2-S	18-Aug-94	20.50 - 21.00	--	ND	ND
J08-SB03-3-S	18-Aug-94	26.50 - 27.00	--	ND	ND

[a]ND = Below laboratory method detection limit

3.2 Remedial Actions

3.2.1 Summary of Remedial Alternatives

The remedial alternative for this site is the removal of all surface debris from the site.

3.2.2 Summary of Remedial Actions

All surface debris was removed from the site. Photographs of this site before and after implementation of this alternative are included at Appendix D.

4. PUBLIC/COMMUNITY INVOLVEMENT

It is U.S. Department of Defense (DOD) and Army policy to involve the local community throughout the investigation process at an installation. To initiate this involvement, HWAD has established a repository in the local public library, which includes final copies of all past studies and documents regarding environmental issues at the facility. This repository will be maintained and updated with all future final documents as they are issued to HWAD.

HWAD has solicited community participation in establishment of the restoration advisory board (RAB). However, because of insufficient public response, HWAD has not formed a RAB. HWAD will continue to solicit community involvement.

5. CONCLUSIONS AND RECOMMENDATIONS

For comparison, the HWAD proposed closure goals for all analytes are listed in the appendices. These closure goals were used in evaluating detected chemicals. Table 6 summarizes the detected chemicals of concern.

Table 6 - Summary of Detected Chemicals of Concern

Sample Number	Sampled Date	Sample Depth (ft)	TPH-Diesel (mg/kg) EPA Method 8015-M
J08-SS01-1-S	11-Jul-94	0.5	1.2
J08-SS05-1-S	11-Jul-94	0.5	1.5

Samples collected at SWMU J-08 by soil gas survey were non-detect for all analytes. Near surface and subsurface soil samples had metals concentrations below closure levels.

Two surface samples (SS01-1-S, SS05-1-S) had TPH-d detections at concentrations of 1.2 and 1.5 mg/kg, and are not considered of concern relative to the TPH closure goal of 100 mg/kg. Methylene chloride was detected in six samples up to 6 mg/kg and is believed to be associated with the laboratory equipment or analytical process and are not representative of soil conditions at the site.

It is recommended that no further investigation be performed at this SWMU and that the site be recommended for closure with regard to these chemicals of concern and without land use restrictions.

6. DECLARATION

The selected remedy is protective of human health and the environment. It has been shown that a complete exposure pathway to human health and the environment does not exist, and there is no potential for such an exposure pathway to be completed in the future.

U.S. ARMY

30 SEP 1999
Date

James A. Piner
Lieutenant Colonel, U.S. Army
Commanding

STATE OF NEVADA

13 Oct 1999
Date

Paul Liebendorfer
Chief, Bureau of Federal Facilities

REFERENCES

Tetra Tech. 1993. Draft Technical Memorandum for Group B SWMUs, Hawthorne Army Ammunition Plant. November 22, 1993.

Tetra Tech. 1994a. Remedial Investigation, Group B SWMUs, Final Work Plan, Volume 1, Investigation Description, and Volume 2, Sampling and Analysis Plans, Hawthorne Army Ammunition Plant. May, 1994.

Tetra Tech. 1994b. Site Safety and Health Plan, Hawthorne Army Ammunition Plant. June, 1994.

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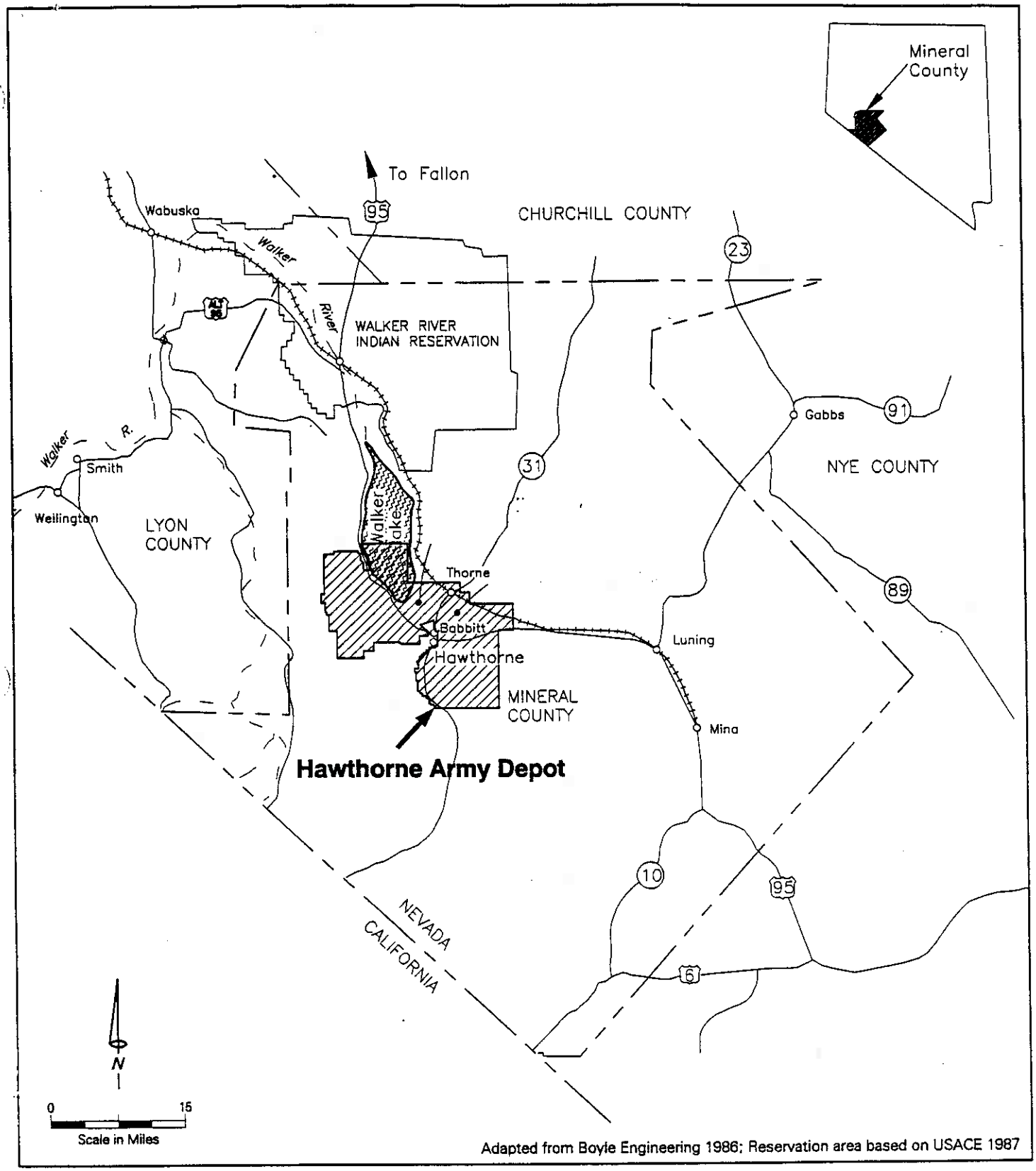
Tetra Tech. 1995. Group B Chemical Data Submittal, Hawthorne Army Ammunition Plant. March, 1995.

USACE. 1993. Installation Action Plan for Hawthorne Army Ammunition Plant (HWAAP), prepared by S. Hong.

Van Denburgh, A.S. and F.E. Rush. 1975. Source of Nitrate in Water from Supply Well 8, Hawthorne Naval Ammunition Depot, Nevada. U.S. Geological Survey administrative report, prepared in cooperation with the U.S. Navy. March, 1975. 23 pp.

Tetra Tech. 1996. Hawthorne Army Depot Remedial Investigation Group B solid Waste Management Units, Final Closure Report, SWMU A-03 Coal Ash Landfill, SWMU B-28a 108-20a EO Spill Impoundment, SWMU B-28b 108-20b EO spill Impoundment, SWMU B-28c 104-8 EO Spill Impoundment, SWMU B-28d 104-10 EO Spill Impoundment, SWMU I-14 Bldg 46 Spill Site, SWMU J-04 107 Drum Storage, SWMU J-05 Dock 1 Landfill, SWMU J-06 Dock 2 Landfill, SWMU J-07 Dock 3 Landfill, SWMU J-08 Dock 4 Landfill, SWMU J-09 Dock 5 Landfill, SWMU J-10 Dock 6 Landfill, SWMU J-13 WADF South Dump, SWMU J-17 Thorne Drum Area, SWMU J-21 Bldg 97 Old Dock Area, SWMU J-22 50 Group Pits, SWMU J-24 Trench near 50-60.

Figures



Adapted from Boyle Engineering 1986; Reservation area based on USACE 1987

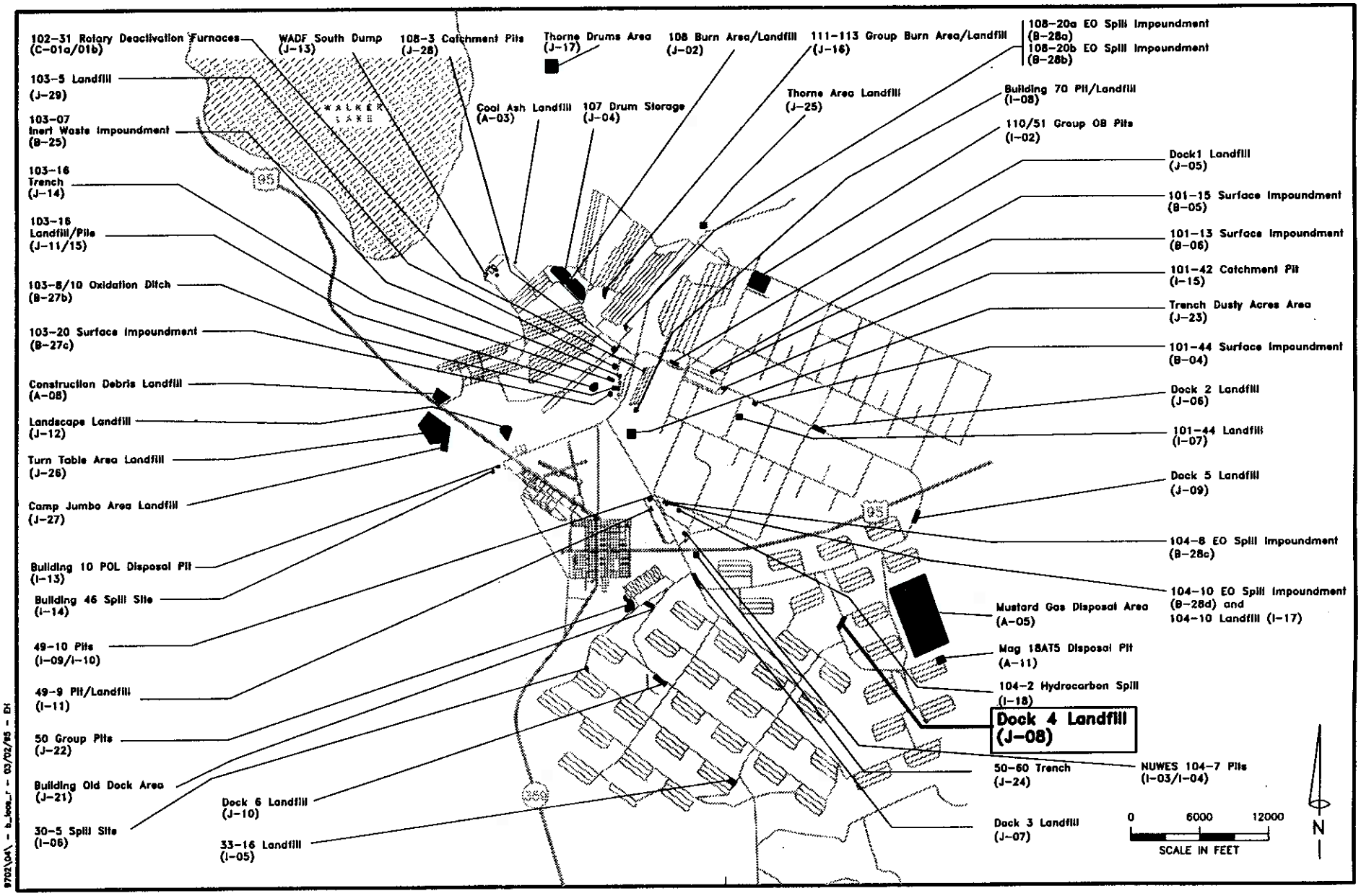
Location Map

Legend

Hawthorne Army Depot

Hawthorne Army Depot
Hawthorne, Nevada

Tetra Tech, Inc.

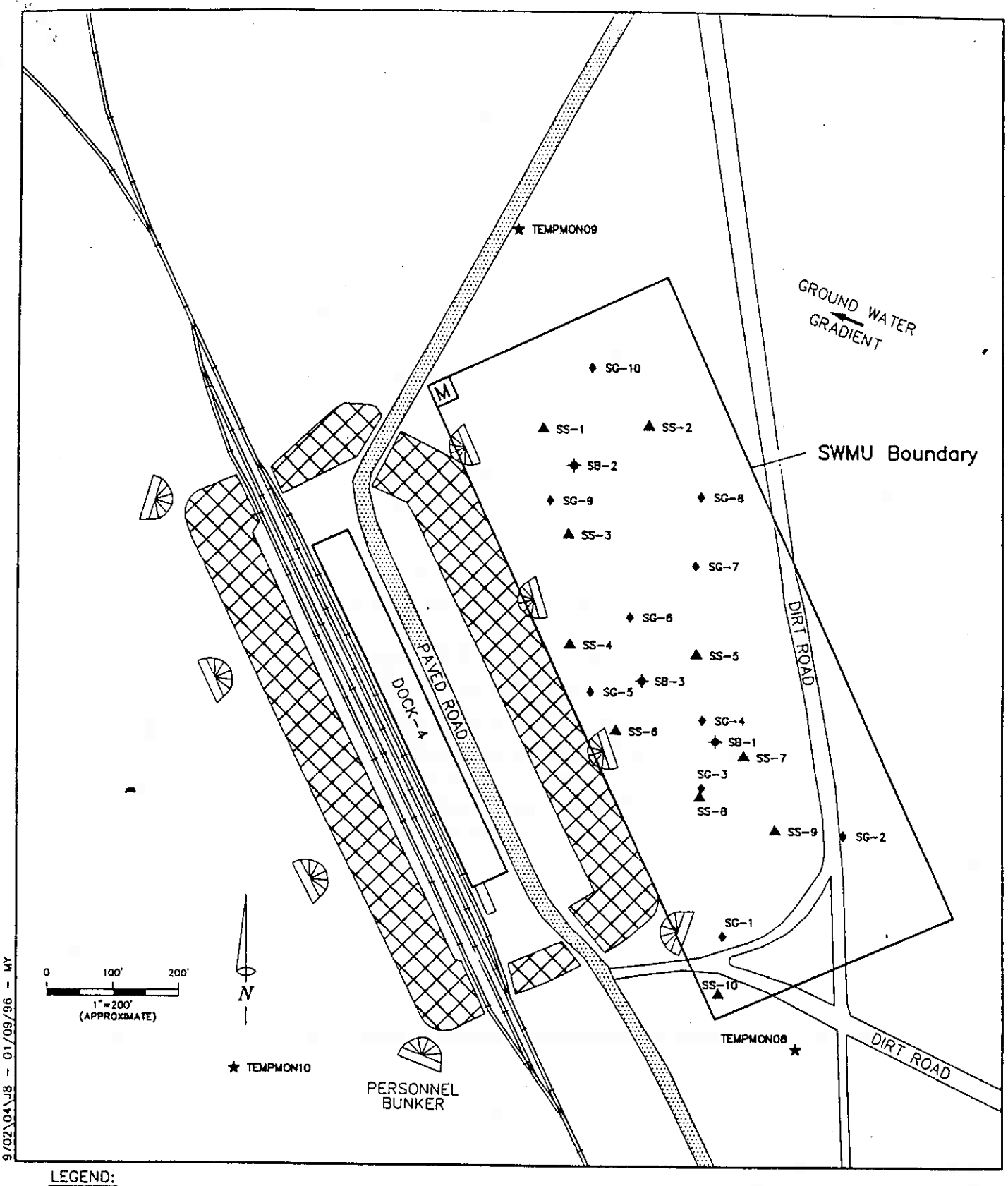


TETRA TECH

Location Map
Hawthorne Army Depot

Hawthorne, Nevada

Figure SWMU-J-08-1



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LEGEND:

- ★ SWMU Reference point
- ♦ SG-X Soil gas sample location and number
- ▲ SS-X Surface sample location and number
- ✦ SB-X Soil boring location and number
- Explosion barrier
- M Monument location

TETRA TECH

Activity Map
SWMU J-08
Dock 4 Landfill

Hawthorne Army Depot
Hawthorne, Nevada

Source: Base map digitized from Aerial Photo Survey, June 1994. Geophysical data from Geophysical Survey, NORCAL, August 1994.

Figure J-08-2

Appendix A

Proposed Closure Goals
Hawthorne Army Depot
Hawthorne, Nevada

Constituent of Concern	Chemical Classification	Carcinogenic (C) or Non-carcinogenic (NC)	HWAD Proposed Closure Goals for Soil (mg/kg)	HWAD Proposed Closure Goal Source
Nitrate	Anion	NC	128,000	Calculated Subpart S[a]
2-Amino-dinitrotoluene	Explosive	NC	-	NA[b]
4-Amino-dinitrotoluene	Explosive	NC	-	NA
1,3-Dinitrobenzene	Explosive	NC	8	Calculated Subpart S
2,4-Dinitrotoluene	Explosive	NC	160	Calculated Subpart S
2,6-Dinitrotoluene	Explosive	NC	80	Calculated Subpart S
HMX	Explosive	NC	4,000	Calculated Subpart S
Nitrobenzene	Explosive	NC	40	Calculated Subpart S
Nitrotoluene (2-, 3-, 4-)	Explosive	NC	800	Calculated Subpart S
RDX	Explosive	NC	64	Calculated Subpart S
Tetryl	Explosive	NC	800	Calculated Subpart S
1,3,5-Trinitrobenzene	Explosive	NC	4	Calculated Subpart S
2,4,6-Trinitrotoluene	Explosive	C	233	Calculated Subpart S
Aluminum	Metal	NC	80,000	Calculated Subpart S
Arsenic (cancer endpoint)	Metal	C & NC	30	Background[c]
Barium and compounds	Metal	NC	5,600	Calculated Subpart S
Beryllium and compounds	Metal	C	1	Background
Cadmium and compounds	Metal	NC	40	Calculated Subpart S
Chromium III and compounds	Metal	NC	80,000	Calculated Subpart S
Lead	Metal	NC	1000	PRG[d]
Mercury and compounds (inorganic)	Metal	NC	24	Calculated Subpart S
Selenium	Metal	NC	400	Calculated Subpart S
Silver and compounds	Metal	NC	400	Calculated Subpart S
Acenaphthene	PAH	NC	4,800	Calculated Subpart S
Benzo[a]anthracene	PAH	C	0.96	Calculated Subpart S
Benzo[a]pyrene	PAH	C	0.10	Detection Limit[e]
Benzo[b]fluoranthene	PAH	C	0.96	Calculated Subpart S
Benzo[k]fluoranthene	PAH	C	10	Calculated Subpart S
Chrysene	PAH	C	96	Calculated Subpart S
Dibenz[ah]anthracene	PAH	C	0.96	Calculated Subpart S
Fluoranthene	PAH	NC	3,200	Calculated Subpart S
Fluorene	PAH	NC	3,200	Calculated Subpart S
Indeno[1,2,3-cd]pyrene	PAH	C	-	NA
Naphthalene	PAH	NC	3,200	Calculated Subpart S
Pyrene	PAH	NC	2,400	Calculated Subpart S
Total Petroleum Hydrocarbons as Diesel (TPH-d)	PAH	C	100	NDEP Level Clean-up[f]
Polychlorinated biphenyls (PCBs)	PCBs	C	25	TSCA[g]
Bis(2-ethylhexyl)phthalate (DEHP)	SVOC	C	1,600	Calculated Subpart S
Bromoform (tribromomethane)	SVOC	C	89	Calculated Subpart S

Proposed Closure Goals
Hawthorne Army Depot
Hawthorne, Nevada

Constituent of Concern	Chemical Classification	Carcinogenic (C) or Non-carcinogenic (NC)	HWAD Proposed Closure Goals for Soil (mg/kg)	HWAD Proposed Closure Goal Source
Butyl benzyl phthalate	SVOC	NC	16,000	Calculated Subpart S
Dibromochloromethane	SVOC	C	83	Calculated Subpart S
Dibutyl-phthalate	SVOC	NC	8,000	Calculated Subpart S
Diethyl phthalate	SVOC	NC	64,000	Calculated Subpart S
Phenanthrene	SVOC		-	NA
Phenol	SVOC	NC	48,000	Calculated Subpart S
Acetone	VOC	NC	800	Calculated Subpart S
Anthracene	VOC	NC	24,000	Calculated Subpart S
Benzene	VOC	C	24	Calculated Subpart S
Bis(2-chloroisopropyl)ether	VOC	C	3,200	Calculated Subpart S
Bromomethane	VOC	NC	112	Calculated Subpart S
Carbon tetrachloride	VOC	C	5	Calculated Subpart S
Chlorobenzene	VOC	NC	1,600	Calculated Subpart S
Chloroform	VOC	C	115	Calculated Subpart S
Chloromethane	VOC	C	538	Calculated Subpart S
Dibromomethane	VOC	C	0.008	Calculated Subpart S
1,2-Dichlorobenzene	VOC	NC	7,200	Calculated Subpart S
1,4-Dichlorobenzene	VOC	C	18,300	Calculated Subpart S
Dichlorodifluoromethane	VOC	C	16,000	Calculated Subpart S
Ethylbenzene	VOC	NC	8,000	Calculated Subpart S
Methylene bromide	VOC	NC	800	Calculated Subpart S
Methylene chloride	VOC	C	4,800	Calculated Subpart S
2-Methylnaphthalene	VOC		-	NA
1,1,2,2-Tetrachloroethane	VOC	C	35	Calculated Subpart S
Tetrachloroethylene (PCE)	VOC	C & NC	800	Calculated Subpart S
Toluene	VOC	NC	16,000	Calculated Subpart S
1,1,1-Trichloroethane	VOC	NC	7,200	Calculated Subpart S
Trichloroethylene (TCE)	VOC	C & NC	480	Calculated Subpart S
Trichlorofluoromethane	VOC	NC	24,000	Calculated Subpart S
1,2,3-Trichloropropane	VOC	C	480	Calculated Subpart S
Vinyl chloride	VOC	C	0.37	Calculated Subpart S
Xylene Total (m-, o-, p-)	VOC	NC	160,000	Calculated Subpart S
2,3,7,8-TCDD	Dioxin	C	0.000005	Calculated Subpart S

[a] RCRA 55 FR 30870

[b] Not available

[c] Highest background concentration detected in 50 background soil samples

[d] Smucker, Stanford J. USEPA Rgion IX, Preliminary Remedial Goals, Second Half, Sep. 1995

[e] Method detection limit for Volatile Organic Compounds by EPA Method 8260 or Semi-Volatile Organic Compounds analyzed by EPA Method 8270

[f] Nevada Division of Environmental Protection

[g] Cleanup level for PCB spills in accordance with Toxic Substance and Control Act Spill Policy Guidelines 40 CFR 761

Appendix B

Summary Table of Analytical Data

SWMU J08 - Dock 4/Landfill

Hawthorne Army Depot

Hawthorne, Nevada

January 1996

FINAL

FINAL

Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J08-SB01-1-S	10.75-11.0	8/17/94	6010	Arsenic	< 4	mg/kg	
J08-SB01-1-S	10.75-11.0	8/17/94	6010	Barium	120	mg/kg	
J08-SB01-1-S	10.75-11.0	8/17/94	6010	Cadmium	0.5	mg/kg	
J08-SB01-1-S	10.75-11.0	8/17/94	6010	Chromium	9.5	mg/kg	
J08-SB01-1-S	10.75-11.0	8/17/94	6010	Lead	11	mg/kg	J
J08-SB01-1-S	10.75-11.0	8/17/94	6010	Selenium	< 5	mg/kg	
J08-SB01-1-S	10.75-11.0	8/17/94	6010	Silver	< 1	mg/kg	
J08-SB01-1-S	10.75-11.0	8/17/94	7471	Mercury	< 0.04	mg/kg	
J08-SB01-1-S	11.0-11.25	8/17/94	8015M	TPH (as diesel)	< 1	mg/kg	
J08-SB01-1-S	11.25-11.5	8/17/94	8260	1,1,1,2-Tetrachloroethane	< 0.4	ug/kg	
J08-SB01-1-S	11.25-11.5	8/17/94	8260	1,1,1-Trichloroethane	< 0.6	ug/kg	
J08-SB01-1-S	11.25-11.5	8/17/94	8260	1,1,2,2-Tetrachloroethane	< 0.2	ug/kg	
J08-SB01-1-S	11.25-11.5	8/17/94	8260	1,1,2-Trichloroethane	< 0.4	ug/kg	
J08-SB01-1-S	11.25-11.5	8/17/94	8260	1,1-Dichloroethane	< 0.2	ug/kg	
J08-SB01-1-S	11.25-11.5	8/17/94	8260	1,1-Dichloroethene	< 0.2	ug/kg	
J08-SB01-1-S	11.25-11.5	8/17/94	8260	1,2,3-Trichloropropane	< 0.8	ug/kg	
J08-SB01-1-S	11.25-11.5	8/17/94	8260	1,2-Dichlorobenzene	< 0.2	ug/kg	
J08-SB01-1-S	11.25-11.5	8/17/94	8260	1,2-Dichloroethane	< 0.6	ug/kg	
J08-SB01-1-S	11.25-11.5	8/17/94	8260	1,2-Dichloropropane	< 0.8	ug/kg	
J08-SB01-1-S	11.25-11.5	8/17/94	8260	1,3-Dichlorobenzene	< 0.2	ug/kg	
J08-SB01-1-S	11.25-11.5	8/17/94	8260	1,4-Dichlorobenzene	< 0.4	ug/kg	
J08-SB01-1-S	11.25-11.5	8/17/94	8260	Benzene	< 0.2	ug/kg	
J08-SB01-1-S	11.25-11.5	8/17/94	8260	Bromobenzene	< 0.4	ug/kg	
J08-SB01-1-S	11.25-11.5	8/17/94	8260	Bromodichloromethane	< 0.2	ug/kg	
J08-SB01-1-S	11.25-11.5	8/17/94	8260	Bromoform	< 0.2	ug/kg	
J08-SB01-1-S	11.25-11.5	8/17/94	8260	Bromomethane	< 0.2	ug/kg	
J08-SB01-1-S	11.25-11.5	8/17/94	8260	Carbon Tetrachloride	< 0.6	ug/kg	
J08-SB01-1-S	11.25-11.5	8/17/94	8260	Chlorobenzene	< 0.2	ug/kg	
J08-SB01-1-S	11.25-11.5	8/17/94	8260	Chloroethane	< 0.2	ug/kg	
J08-SB01-1-S	11.25-11.5	8/17/94	8260	Chloroform	< 0.2	ug/kg	
J08-SB01-1-S	11.25-11.5	8/17/94	8260	Chloromethane	< 0.6	ug/kg	
J08-SB01-1-S	11.25-11.5	8/17/94	8260	cis-1,3-Dichloropropene	< 0.2	ug/kg	
J08-SB01-1-S	11.25-11.5	8/17/94	8260	Dibromochloromethane	< 0.6	ug/kg	
J08-SB01-1-S	11.25-11.5	8/17/94	8260	Dibromomethane	< 0.2	ug/kg	
J08-SB01-1-S	11.25-11.5	8/17/94	8260	Dichlorodifluoromethane	< 0.1	ug/kg	
J08-SB01-1-S	11.25-11.5	8/17/94	8260	Ethylbenzene	< 0.2	ug/kg	
J08-SB01-1-S	11.25-11.5	8/17/94	8260	Methylene chloride	5.7	ug/kg	
J08-SB01-1-S	11.25-11.5	8/17/94	8260	Tetrachloroethene	< 0.6	ug/kg	
J08-SB01-1-S	11.25-11.5	8/17/94	8260	Toluene	< 0.4	ug/kg	
J08-SB01-1-S	11.25-11.5	8/17/94	8260	Total Xylene Isomers	< 0.6	ug/kg	
J08-SB01-1-S	11.25-11.5	8/17/94	8260	trans-1,2-Dichloroethene	< 0.2	ug/kg	
J08-SB01-1-S	11.25-11.5	8/17/94	8260	trans-1,3-Dichloropropene	< 0.2	ug/kg	
J08-SB01-1-S	11.25-11.5	8/17/94	8260	Trichloroethene	< 1	ug/kg	
J08-SB01-1-S	11.25-11.5	8/17/94	8260	Trichlorofluoromethane	< 0.1	ug/kg	
J08-SB01-1-S	11.25-11.5	8/17/94	8260	Vinyl chloride	< 0.2	ug/kg	

Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J08-SB01-1-S	11.0-11.25	8/17/94	D2216	Moisture/TNFR	5.3	percent	
J08-SB01-1-S	11.0-11.25	8/17/94	D2216	Moisture/TNFR	1.8	percent	
J08-SB01-2-S	15.25-15.5	8/17/94	6010	Arsenic	< 4	mg/kg	
J08-SB01-2-S	15.25-15.5	8/17/94	6010	Barium	69	mg/kg	
J08-SB01-2-S	15.25-15.5	8/17/94	6010	Cadmium	0.75	mg/kg	
J08-SB01-2-S	15.25-15.5	8/17/94	6010	Chromium	6.1	mg/kg	
J08-SB01-2-S	15.25-15.5	8/17/94	6010	Lead	6.5	mg/kg	J
J08-SB01-2-S	15.25-15.5	8/17/94	6010	Selenium	< 5	mg/kg	
J08-SB01-2-S	15.25-15.5	8/17/94	6010	Silver	< 0.9	mg/kg	
J08-SB01-2-S	15.25-15.5	8/17/94	7471	Mercury	< 0.04	mg/kg	
J08-SB01-2-S	15.5-15.75	8/17/94	8015M	TPH (as diesel)	< 1	mg/kg	
J08-SB01-2-S	15.75-16.0	8/17/94	8260	1,1,1,2-Tetrachloroethane	< 0.4	ug/kg	
J08-SB01-2-S	15.75-16.0	8/17/94	8260	1,1,1-Trichloroethane	< 0.6	ug/kg	
J08-SB01-2-S	15.75-16.0	8/17/94	8260	1,1,2,2-Tetrachloroethane	< 0.2	ug/kg	
J08-SB01-2-S	15.75-16.0	8/17/94	8260	1,1,2-Trichloroethane	< 0.4	ug/kg	
J08-SB01-2-S	15.75-16.0	8/17/94	8260	1,1-Dichloroethane	< 0.2	ug/kg	
J08-SB01-2-S	15.75-16.0	8/17/94	8260	1,1-Dichloroethene	< 0.2	ug/kg	
J08-SB01-2-S	15.75-16.0	8/17/94	8260	1,2,3-Trichloropropane	< 0.8	ug/kg	
J08-SB01-2-S	15.75-16.0	8/17/94	8260	1,2-Dichlorobenzene	< 0.2	ug/kg	
J08-SB01-2-S	15.75-16.0	8/17/94	8260	1,2-Dichloroethane	< 0.6	ug/kg	
J08-SB01-2-S	15.75-16.0	8/17/94	8260	1,2-Dichloropropane	< 0.8	ug/kg	
J08-SB01-2-S	15.75-16.0	8/17/94	8260	1,3-Dichlorobenzene	< 0.2	ug/kg	
J08-SB01-2-S	15.75-16.0	8/17/94	8260	1,4-Dichlorobenzene	< 0.4	ug/kg	
J08-SB01-2-S	15.75-16.0	8/17/94	8260	Benzene	< 0.2	ug/kg	
J08-SB01-2-S	15.75-16.0	8/17/94	8260	Bromobenzene	< 0.4	ug/kg	
J08-SB01-2-S	15.75-16.0	8/17/94	8260	Bromodichloromethane	< 0.2	ug/kg	
J08-SB01-2-S	15.75-16.0	8/17/94	8260	Bromoform	< 0.2	ug/kg	
J08-SB01-2-S	15.75-16.0	8/17/94	8260	Bromomethane	< 0.2	ug/kg	
J08-SB01-2-S	15.75-16.0	8/17/94	8260	Carbon Tetrachloride	< 0.6	ug/kg	
J08-SB01-2-S	15.75-16.0	8/17/94	8260	Chlorobenzene	< 0.2	ug/kg	
J08-SB01-2-S	15.75-16.0	8/17/94	8260	Chloroethane	< 0.2	ug/kg	
J08-SB01-2-S	15.75-16.0	8/17/94	8260	Chloroform	< 0.2	ug/kg	
J08-SB01-2-S	15.75-16.0	8/17/94	8260	Chloromethane	< 0.6	ug/kg	
J08-SB01-2-S	15.75-16.0	8/17/94	8260	cis-1,3-Dichloropropene	< 0.2	ug/kg	
J08-SB01-2-S	15.75-16.0	8/17/94	8260	Dibromochloromethane	< 0.6	ug/kg	
J08-SB01-2-S	15.75-16.0	8/17/94	8260	Dibromomethane	< 0.2	ug/kg	
J08-SB01-2-S	15.75-16.0	8/17/94	8260	Dichlorodifluoromethane	< 0.1	ug/kg	
J08-SB01-2-S	15.75-16.0	8/17/94	8260	Ethylbenzene	< 0.2	ug/kg	
J08-SB01-2-S	15.75-16.0	8/17/94	8260	Methylene chloride	5.7	ug/kg	
J08-SB01-2-S	15.75-16.0	8/17/94	8260	Tetrachloroethene	< 0.6	ug/kg	
J08-SB01-2-S	15.75-16.0	8/17/94	8260	Toluene	< 0.4	ug/kg	
J08-SB01-2-S	15.75-16.0	8/17/94	8260	Total Xylene Isomers	< 0.6	ug/kg	
J08-SB01-2-S	15.75-16.0	8/17/94	8260	trans-1,2-Dichloroethene	< 0.2	ug/kg	
J08-SB01-2-S	15.75-16.0	8/17/94	8260	trans-1,3-Dichloropropene	< 0.2	ug/kg	
J08-SB01-2-S	15.75-16.0	8/17/94	8260	Trichloroethene	< 1	ug/kg	

Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J08-SB01-2-S	15.75-16.0	8/17/94	8260	Trichlorofluoromethane	< 0.1	ug/kg	
J08-SB01-2-S	15.75-16.0	8/17/94	8260	Vinyl chloride	< 0.2	ug/kg	
J08-SB01-2-S	15.5-15.75	8/17/94	D2216	Moisture/TNFR	3.8	percent	
J08-SB01-2-S	15.5-15.75	8/17/94	D2216	Moisture/TNFR	1.7	percent	
J08-SB01-3-S	21.25-21.5	8/17/94	6010	Arsenic	< 4	mg/kg	
J08-SB01-3-S	21.25-21.5	8/17/94	6010	Barium	68	mg/kg	
J08-SB01-3-S	21.25-21.5	8/17/94	6010	Cadmium	0.49	mg/kg	J
J08-SB01-3-S	21.25-21.5	8/17/94	6010	Chromium	6.5	mg/kg	
J08-SB01-3-S	21.25-21.5	8/17/94	6010	Lead	9.2	mg/kg	J
J08-SB01-3-S	21.25-21.5	8/17/94	6010	Selenium	< 5	mg/kg	
J08-SB01-3-S	21.25-21.5	8/17/94	6010	Silver	< 0.9	mg/kg	
J08-SB01-3-S	21.25-21.5	8/17/94	7471	Mercury	< 0.04	mg/kg	
J08-SB01-3-S	21.5-21.75	8/17/94	8015M	TPH (as diesel)	< 1	mg/kg	
J08-SB01-3-S	21.75-22.0	8/17/94	8260	1,1,1,2-Tetrachloroethane	< 0.4	ug/kg	
J08-SB01-3-S	21.75-22.0	8/17/94	8260	1,1,1-Trichloroethane	< 0.6	ug/kg	
J08-SB01-3-S	21.75-22.0	8/17/94	8260	1,1,2,2-Tetrachloroethane	< 0.2	ug/kg	
J08-SB01-3-S	21.75-22.0	8/17/94	8260	1,1,2-Trichloroethane	< 0.4	ug/kg	
J08-SB01-3-S	21.75-22.0	8/17/94	8260	1,1-Dichloroethane	< 0.2	ug/kg	
J08-SB01-3-S	21.75-22.0	8/17/94	8260	1,1-Dichloroethene	< 0.2	ug/kg	
J08-SB01-3-S	21.75-22.0	8/17/94	8260	1,2,3-Trichloropropane	< 0.8	ug/kg	
J08-SB01-3-S	21.75-22.0	8/17/94	8260	1,2-Dichlorobenzene	< 0.2	ug/kg	
J08-SB01-3-S	21.75-22.0	8/17/94	8260	1,2-Dichloroethane	< 0.6	ug/kg	
J08-SB01-3-S	21.75-22.0	8/17/94	8260	1,2-Dichloropropane	< 0.8	ug/kg	
J08-SB01-3-S	21.75-22.0	8/17/94	8260	1,3-Dichlorobenzene	< 0.2	ug/kg	
J08-SB01-3-S	21.75-22.0	8/17/94	8260	1,4-Dichlorobenzene	< 0.4	ug/kg	
J08-SB01-3-S	21.75-22.0	8/17/94	8260	Benzene	< 0.2	ug/kg	
J08-SB01-3-S	21.75-22.0	8/17/94	8260	Bromobenzene	< 0.4	ug/kg	
J08-SB01-3-S	21.75-22.0	8/17/94	8260	Bromodichloromethane	< 0.2	ug/kg	
J08-SB01-3-S	21.75-22.0	8/17/94	8260	Bromoform	< 0.2	ug/kg	
J08-SB01-3-S	21.75-22.0	8/17/94	8260	Bromomethane	< 0.2	ug/kg	
J08-SB01-3-S	21.75-22.0	8/17/94	8260	Carbon Tetrachloride	< 0.6	ug/kg	
J08-SB01-3-S	21.75-22.0	8/17/94	8260	Chlorobenzene	< 0.2	ug/kg	
J08-SB01-3-S	21.75-22.0	8/17/94	8260	Chloroethane	< 0.2	ug/kg	
J08-SB01-3-S	21.75-22.0	8/17/94	8260	Chloroform	< 0.2	ug/kg	
J08-SB01-3-S	21.75-22.0	8/17/94	8260	Chloromethane	< 0.6	ug/kg	
J08-SB01-3-S	21.75-22.0	8/17/94	8260	cis-1,3-Dichloropropene	< 0.2	ug/kg	
J08-SB01-3-S	21.75-22.0	8/17/94	8260	Dibromochloromethane	< 0.6	ug/kg	
J08-SB01-3-S	21.75-22.0	8/17/94	8260	Dibromomethane	< 0.2	ug/kg	
J08-SB01-3-S	21.75-22.0	8/17/94	8260	Dichlorodifluoromethane	< 0.1	ug/kg	
J08-SB01-3-S	21.75-22.0	8/17/94	8260	Ethylbenzene	< 0.2	ug/kg	
J08-SB01-3-S	21.75-22.0	8/17/94	8260	Methylene chloride	6.6	ug/kg	
J08-SB01-3-S	21.75-22.0	8/17/94	8260	Tetrachloroethene	< 0.6	ug/kg	
J08-SB01-3-S	21.75-22.0	8/17/94	8260	Toluene	< 0.4	ug/kg	
J08-SB01-3-S	21.75-22.0	8/17/94	8260	Total Xylene Isomers	< 0.6	ug/kg	
J08-SB01-3-S	21.75-22.0	8/17/94	8260	trans-1,2-Dichloroethene	< 0.2	ug/kg	

Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J08-SB01-3-S	21.75-22.0	8/17/94	8260	trans-1,3-Dichloropropene	< 0.2	ug/kg	
J08-SB01-3-S	21.75-22.0	8/17/94	8260	Trichloroethene	< 1	ug/kg	
J08-SB01-3-S	21.75-22.0	8/17/94	8260	Trichlorofluoromethane	< 0.1	ug/kg	
J08-SB01-3-S	21.75-22.0	8/17/94	8260	Vinyl chloride	< 0.2	ug/kg	
J08-SB01-3-S	21.5-21.75	8/17/94	D2216	Moisture/TNFR	2.6	percent	
J08-SB01-3-S	21.5-21.75	8/17/94	D2216	Moisture/TNFR	1.2	percent	
J08-SB02-1-S	10.25-10.5	8/17/94	6010	Arsenic	< 4	mg/kg	
J08-SB02-1-S	10.25-10.5	8/17/94	6010	Barium	48	mg/kg	
J08-SB02-1-S	10.25-10.5	8/17/94	6010	Cadmium	0.86	mg/kg	
J08-SB02-1-S	10.25-10.5	8/17/94	6010	Chromium	2.8	mg/kg	J
J08-SB02-1-S	10.25-10.5	8/17/94	6010	Lead	< 5	mg/kg	
J08-SB02-1-S	10.25-10.5	8/17/94	6010	Selenium	< 5	mg/kg	
J08-SB02-1-S	10.25-10.5	8/17/94	6010	Silver	< 0.9	mg/kg	
J08-SB02-1-S	10.25-10.5	8/17/94	7471	Mercury	< 0.04	mg/kg	
J08-SB02-1-S	10.5-10.75	8/17/94	8015M	TPH (as diesel)	< 1	mg/kg	
J08-SB02-1-S	10.75-11.0	8/17/94	8260	1,1,1,2-Tetrachloroethane	< 0.4	ug/kg	
J08-SB02-1-S	10.75-11.0	8/17/94	8260	1,1,1-Trichloroethane	< 0.6	ug/kg	
J08-SB02-1-S	10.75-11.0	8/17/94	8260	1,1,2,2-Tetrachloroethane	< 0.2	ug/kg	
J08-SB02-1-S	10.75-11.0	8/17/94	8260	1,1,2-Trichloroethane	< 0.4	ug/kg	
J08-SB02-1-S	10.75-11.0	8/17/94	8260	1,1-Dichloroethane	< 0.2	ug/kg	
J08-SB02-1-S	10.75-11.0	8/17/94	8260	1,1-Dichloroethene	< 0.2	ug/kg	
J08-SB02-1-S	10.75-11.0	8/17/94	8260	1,2,3-Trichloropropane	< 0.8	ug/kg	
J08-SB02-1-S	10.75-11.0	8/17/94	8260	1,2-Dichlorobenzene	< 0.2	ug/kg	
J08-SB02-1-S	10.75-11.0	8/17/94	8260	1,2-Dichloroethane	< 0.6	ug/kg	
J08-SB02-1-S	10.75-11.0	8/17/94	8260	1,2-Dichloropropane	< 0.8	ug/kg	
J08-SB02-1-S	10.75-11.0	8/17/94	8260	1,3-Dichlorobenzene	< 0.2	ug/kg	
J08-SB02-1-S	10.75-11.0	8/17/94	8260	1,4-Dichlorobenzene	< 0.4	ug/kg	
J08-SB02-1-S	10.75-11.0	8/17/94	8260	Benzene	< 0.2	ug/kg	
J08-SB02-1-S	10.75-11.0	8/17/94	8260	Bromobenzene	< 0.4	ug/kg	
J08-SB02-1-S	10.75-11.0	8/17/94	8260	Bromodichloromethane	< 0.2	ug/kg	
J08-SB02-1-S	10.75-11.0	8/17/94	8260	Bromoform	< 0.2	ug/kg	
J08-SB02-1-S	10.75-11.0	8/17/94	8260	Bromomethane	< 0.2	ug/kg	
J08-SB02-1-S	10.75-11.0	8/17/94	8260	Carbon Tetrachloride	< 0.6	ug/kg	
J08-SB02-1-S	10.75-11.0	8/17/94	8260	Chlorobenzene	< 0.2	ug/kg	
J08-SB02-1-S	10.75-11.0	8/17/94	8260	Chloroethane	< 0.2	ug/kg	
J08-SB02-1-S	10.75-11.0	8/17/94	8260	Chloroform	< 0.2	ug/kg	
J08-SB02-1-S	10.75-11.0	8/17/94	8260	Chloromethane	< 0.6	ug/kg	
J08-SB02-1-S	10.75-11.0	8/17/94	8260	cis-1,3-Dichloropropene	< 0.2	ug/kg	
J08-SB02-1-S	10.75-11.0	8/17/94	8260	Dibromochloromethane	< 0.6	ug/kg	
J08-SB02-1-S	10.75-11.0	8/17/94	8260	Dibromomethane	< 0.2	ug/kg	
J08-SB02-1-S	10.75-11.0	8/17/94	8260	Dichlorodifluoromethane	< 0.1	ug/kg	
J08-SB02-1-S	10.75-11.0	8/17/94	8260	Ethylbenzene	< 0.2	ug/kg	
J08-SB02-1-S	10.75-11.0	8/17/94	8260	Methylene chloride	6.3	ug/kg	
J08-SB02-1-S	10.75-11.0	8/17/94	8260	Tetrachloroethene	< 0.6	ug/kg	
J08-SB02-1-S	10.75-11.0	8/17/94	8260	Toluene	< 0.4	ug/kg	

Summary Table of Analytical Data

SWMU J08 - Dock 4/Landfill

Hawthorne Army Depot
Hawthorne, Nevada
January 1996

FINAL

FINAL

Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J08-SB02-1-S	10.75-11.0	8/17/94	8260	Total Xylene Isomers	< 0.6	ug/kg	
J08-SB02-1-S	10.75-11.0	8/17/94	8260	trans-1,2-Dichloroethene	< 0.2	ug/kg	
J08-SB02-1-S	10.75-11.0	8/17/94	8260	trans-1,3-Dichloropropene	< 0.2	ug/kg	
J08-SB02-1-S	10.75-11.0	8/17/94	8260	Trichloroethene	< 1	ug/kg	
J08-SB02-1-S	10.75-11.0	8/17/94	8260	Trichlorofluoromethane	< 0.1	ug/kg	
J08-SB02-1-S	10.75-11.0	8/17/94	8260	Vinyl chloride	< 0.2	ug/kg	
J08-SB02-1-S	10.5-10.75	8/17/94	D2216	Moisture/TNFR	2.6	percent	
J08-SB02-1-S	10.5-10.75	8/17/94	D2216	Moisture/TNFR	0.9	percent	
J08-SB02-2-S	18.25-18.5	8/17/94	6010	Arsenic	< 4	mg/kg	
J08-SB02-2-S	18.25-18.5	8/17/94	6010	Barium	51	mg/kg	
J08-SB02-2-S	18.25-18.5	8/17/94	6010	Cadmium	2.1	mg/kg	
J08-SB02-2-S	18.25-18.5	8/17/94	6010	Chromium	5.7	mg/kg	
J08-SB02-2-S	18.25-18.5	8/17/94	6010	Lead	< 5	mg/kg	
J08-SB02-2-S	18.25-18.5	8/17/94	6010	Selenium	< 5	mg/kg	
J08-SB02-2-S	18.25-18.5	8/17/94	6010	Silver	< 0.9	mg/kg	
J08-SB02-2-S	18.25-18.5	8/17/94	7471	Mercury	< 0.04	mg/kg	
J08-SB02-2-S	18.5-18.75	8/17/94	8015M	TPH (as diesel)	< 1	mg/kg	
J08-SB02-2-S	18.75-19.0	8/17/94	8260	1,1,1,2-Tetrachloroethane	< 0.4	ug/kg	
J08-SB02-2-S	18.75-19.0	8/17/94	8260	1,1,1-Trichloroethane	< 0.6	ug/kg	
J08-SB02-2-S	18.75-19.0	8/17/94	8260	1,1,2,2-Tetrachloroethane	< 0.2	ug/kg	
J08-SB02-2-S	18.75-19.0	8/17/94	8260	1,1,2-Trichloroethane	< 0.4	ug/kg	
J08-SB02-2-S	18.75-19.0	8/17/94	8260	1,1-Dichloroethane	< 0.2	ug/kg	
J08-SB02-2-S	18.75-19.0	8/17/94	8260	1,1-Dichloroethene	< 0.2	ug/kg	
J08-SB02-2-S	18.75-19.0	8/17/94	8260	1,2,3-Trichloropropane	< 0.8	ug/kg	
J08-SB02-2-S	18.75-19.0	8/17/94	8260	1,2-Dichlorobenzene	< 0.2	ug/kg	
J08-SB02-2-S	18.75-19.0	8/17/94	8260	1,2-Dichloroethane	< 0.6	ug/kg	
J08-SB02-2-S	18.75-19.0	8/17/94	8260	1,2-Dichloropropane	< 0.8	ug/kg	
J08-SB02-2-S	18.75-19.0	8/17/94	8260	1,3-Dichlorobenzene	< 0.2	ug/kg	
J08-SB02-2-S	18.75-19.0	8/17/94	8260	1,4-Dichlorobenzene	< 0.4	ug/kg	
J08-SB02-2-S	18.75-19.0	8/17/94	8260	Benzene	< 0.2	ug/kg	
J08-SB02-2-S	18.75-19.0	8/17/94	8260	Bromobenzene	< 0.4	ug/kg	
J08-SB02-2-S	18.75-19.0	8/17/94	8260	Bromodichloromethane	< 0.2	ug/kg	
J08-SB02-2-S	18.75-19.0	8/17/94	8260	Bromoform	< 0.2	ug/kg	
J08-SB02-2-S	18.75-19.0	8/17/94	8260	Bromomethane	< 0.2	ug/kg	
J08-SB02-2-S	18.75-19.0	8/17/94	8260	Carbon Tetrachloride	< 0.6	ug/kg	
J08-SB02-2-S	18.75-19.0	8/17/94	8260	Chlorobenzene	< 0.2	ug/kg	
J08-SB02-2-S	18.75-19.0	8/17/94	8260	Chloroethane	< 0.2	ug/kg	
J08-SB02-2-S	18.75-19.0	8/17/94	8260	Chloroform	< 0.2	ug/kg	
J08-SB02-2-S	18.75-19.0	8/17/94	8260	Chloromethane	< 0.6	ug/kg	
J08-SB02-2-S	18.75-19.0	8/17/94	8260	cis-1,3-Dichloropropene	< 0.2	ug/kg	
J08-SB02-2-S	18.75-19.0	8/17/94	8260	Dibromochloromethane	< 0.6	ug/kg	
J08-SB02-2-S	18.75-19.0	8/17/94	8260	Dibromomethane	< 0.2	ug/kg	
J08-SB02-2-S	18.75-19.0	8/17/94	8260	Dichlorodifluoromethane	< 0.1	ug/kg	
J08-SB02-2-S	18.75-19.0	8/17/94	8260	Ethylbenzene	< 0.2	ug/kg	
J08-SB02-2-S	18.75-19.0	8/17/94	8260	Methylene chloride	6.4	ug/kg	

Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J08-SB02-2-S	18.75-19.0	8/17/94	8260	Tetrachloroethene	< 0.6	ug/kg	
J08-SB02-2-S	18.75-19.0	8/17/94	8260	Toluene	< 0.4	ug/kg	
J08-SB02-2-S	18.75-19.0	8/17/94	8260	Total Xylene Isomers	< 0.6	ug/kg	
J08-SB02-2-S	18.75-19.0	8/17/94	8260	trans-1,2-Dichloroethene	< 0.2	ug/kg	
J08-SB02-2-S	18.75-19.0	8/17/94	8260	trans-1,3-Dichloropropene	< 0.2	ug/kg	
J08-SB02-2-S	18.75-19.0	8/17/94	8260	Trichloroethene	< 1	ug/kg	
J08-SB02-2-S	18.75-19.0	8/17/94	8260	Trichlorofluoromethane	< 0.1	ug/kg	
J08-SB02-2-S	18.75-19.0	8/17/94	8260	Vinyl chloride	< 0.2	ug/kg	
J08-SB02-2-S	18.5-18.75	8/17/94	D2216	Moisture/TNFR	3.6	percent	
J08-SB02-2-S	18.5-18.75	8/17/94	D2216	Moisture/TNFR	1.7	percent	
J08-SB03-1-S	10.25-10.5	8/18/94	6010	Arsenic	< 4	mg/kg	
J08-SB03-1-S	10.25-10.5	8/18/94	6010	Barium	74	mg/kg	
J08-SB03-1-S	10.25-10.5	8/18/94	6010	Cadmium	2.3	mg/kg	
J08-SB03-1-S	10.25-10.5	8/18/94	6010	Chromium	10	mg/kg	
J08-SB03-1-S	10.25-10.5	8/18/94	6010	Lead	7.6	mg/kg	J
J08-SB03-1-S	10.25-10.5	8/18/94	6010	Selenium	< 5	mg/kg	
J08-SB03-1-S	10.25-10.5	8/18/94	6010	Silver	< 1	mg/kg	
J08-SB03-1-S	10.25-10.5	8/18/94	7471	Mercury	< 0.04	mg/kg	
J08-SB03-1-S	10.5-10.75	8/18/94	8015M	TPH (as diesel)	< 1	mg/kg	
J08-SB03-1-S	10.75-11.0	8/18/94	8260	1,1,1,2-Tetrachloroethane	< 0.4	ug/kg	
J08-SB03-1-S	10.75-11.0	8/18/94	8260	1,1,1-Trichloroethane	< 0.6	ug/kg	
J08-SB03-1-S	10.75-11.0	8/18/94	8260	1,1,2,2-Tetrachloroethane	< 0.2	ug/kg	
J08-SB03-1-S	10.75-11.0	8/18/94	8260	1,1,2-Trichloroethane	< 0.4	ug/kg	
J08-SB03-1-S	10.75-11.0	8/18/94	8260	1,1-Dichloroethane	< 0.2	ug/kg	
J08-SB03-1-S	10.75-11.0	8/18/94	8260	1,1-Dichloroethene	< 0.2	ug/kg	
J08-SB03-1-S	10.75-11.0	8/18/94	8260	1,2,3-Trichloropropane	< 0.8	ug/kg	
J08-SB03-1-S	10.75-11.0	8/18/94	8260	1,2-Dichlorobenzene	< 0.2	ug/kg	
J08-SB03-1-S	10.75-11.0	8/18/94	8260	1,2-Dichloroethane	< 0.6	ug/kg	
J08-SB03-1-S	10.75-11.0	8/18/94	8260	1,2-Dichloropropane	< 0.8	ug/kg	
J08-SB03-1-S	10.75-11.0	8/18/94	8260	1,3-Dichlorobenzene	< 0.2	ug/kg	
J08-SB03-1-S	10.75-11.0	8/18/94	8260	1,4-Dichlorobenzene	< 0.4	ug/kg	
J08-SB03-1-S	10.75-11.0	8/18/94	8260	2-Chloroethylvinylether	< 0.6	ug/kg	
J08-SB03-1-S	10.75-11.0	8/18/94	8260	Benzene	< 0.2	ug/kg	
J08-SB03-1-S	10.75-11.0	8/18/94	8260	Benzyl chloride	< 0.6	ug/kg	
J08-SB03-1-S	10.75-11.0	8/18/94	8260	Bromobenzene	< 0.4	ug/kg	
J08-SB03-1-S	10.75-11.0	8/18/94	8260	Bromodichloromethane	< 0.2	ug/kg	
J08-SB03-1-S	10.75-11.0	8/18/94	8260	Bromoform	< 0.2	ug/kg	
J08-SB03-1-S	10.75-11.0	8/18/94	8260	Bromomethane	< 0.2	ug/kg	
J08-SB03-1-S	10.75-11.0	8/18/94	8260	Carbon Tetrachloride	< 0.6	ug/kg	
J08-SB03-1-S	10.75-11.0	8/18/94	8260	Chlorobenzene	< 0.2	ug/kg	
J08-SB03-1-S	10.75-11.0	8/18/94	8260	Chloroethane	< 0.2	ug/kg	
J08-SB03-1-S	10.75-11.0	8/18/94	8260	Chloroform	< 0.2	ug/kg	
J08-SB03-1-S	10.75-11.0	8/18/94	8260	Chloromethane	< 0.6	ug/kg	
J08-SB03-1-S	10.75-11.0	8/18/94	8260	cis-1,3-Dichloropropene	< 0.2	ug/kg	
J08-SB03-1-S	10.75-11.0	8/18/94	8260	Dibromochloromethane	< 0.6	ug/kg	

Summary Table of Analytical Data

SWMU J08 - Dock 4/Landfill

Hawthorne Army Depot
Hawthorne, Nevada
January 1996

FINAL

FINAL

Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J08-SB03-1-S	10.75-11.0	8/18/94	8260	Dibromomethane	< 0.2	ug/kg	
J08-SB03-1-S	10.75-11.0	8/18/94	8260	Dichlorodifluoromethane	< 0.1	ug/kg	
J08-SB03-1-S	10.75-11.0	8/18/94	8260	Ethylbenzene	< 0.2	ug/kg	
J08-SB03-1-S	10.75-11.0	8/18/94	8260	Methylene chloride	< 0.4	ug/kg	
J08-SB03-1-S	10.75-11.0	8/18/94	8260	Tetrachloroethene	< 0.6	ug/kg	
J08-SB03-1-S	10.75-11.0	8/18/94	8260	Toluene	< 0.4	ug/kg	
J08-SB03-1-S	10.75-11.0	8/18/94	8260	Total Xylene Isomers	< 0.6	ug/kg	
J08-SB03-1-S	10.75-11.0	8/18/94	8260	trans-1,2-Dichloroethene	< 0.2	ug/kg	
J08-SB03-1-S	10.75-11.0	8/18/94	8260	trans-1,3-Dichloropropene	< 0.2	ug/kg	
J08-SB03-1-S	10.75-11.0	8/18/94	8260	Trichloroethene	< 1	ug/kg	
J08-SB03-1-S	10.75-11.0	8/18/94	8260	Trichlorofluoromethane	< 0.1	ug/kg	R
J08-SB03-1-S	10.75-11.0	8/18/94	8260	Vinyl chloride	< 0.2	ug/kg	
J08-SB03-1-S	10.5-10.75	8/18/94	D2216	Moisture/TNFR	11	percent	
J08-SB03-1-S	10.5-10.75	8/18/94	D2216	Moisture/TNFR	11	percent	
J08-SB03-1-S	10.5-10.75	8/18/94	D2216	Moisture/TNFR	7.8	percent	
J08-SB03-1-S	10.5-10.75	8/18/94	D2216	Moisture/TNFR	7.3	percent	

J08-SB03-1-SD (DP215	11.5-11.75	8/18/94	8015M	TPH (as diesel)	< 1	mg/kg	

J08-SB03-2-S	20.25-20.5	8/18/94	6010	Arsenic	< 4	mg/kg	
J08-SB03-2-S	20.25-20.5	8/18/94	6010	Barium	57	mg/kg	
J08-SB03-2-S	20.25-20.5	8/18/94	6010	Cadmium	1.7	mg/kg	
J08-SB03-2-S	20.25-20.5	8/18/94	6010	Chromium	8.6	mg/kg	
J08-SB03-2-S	20.25-20.5	8/18/94	6010	Lead	< 5	mg/kg	
J08-SB03-2-S	20.25-20.5	8/18/94	6010	Selenium	< 5	mg/kg	
J08-SB03-2-S	20.25-20.5	8/18/94	6010	Silver	< 0.9	mg/kg	
J08-SB03-2-S	20.25-20.5	8/18/94	7471	Mercury	< 0.04	mg/kg	
J08-SB03-2-S	20.5-20.75	8/18/94	8015M	TPH (as diesel)	< 1	mg/kg	
J08-SB03-2-S	20.75-21.0	8/18/94	8260	1,1,1,2-Tetrachloroethane	< 0.4	ug/kg	
J08-SB03-2-S	20.75-21.0	8/18/94	8260	1,1,1-Trichloroethane	< 0.6	ug/kg	
J08-SB03-2-S	20.75-21.0	8/18/94	8260	1,1,2,2-Tetrachloroethane	< 0.2	ug/kg	
J08-SB03-2-S	20.75-21.0	8/18/94	8260	1,1,2-Trichloroethane	< 0.4	ug/kg	
J08-SB03-2-S	20.75-21.0	8/18/94	8260	1,1-Dichloroethane	< 0.2	ug/kg	
J08-SB03-2-S	20.75-21.0	8/18/94	8260	1,1-Dichloroethene	< 0.2	ug/kg	
J08-SB03-2-S	20.75-21.0	8/18/94	8260	1,2,3-Trichloropropane	< 0.8	ug/kg	
J08-SB03-2-S	20.75-21.0	8/18/94	8260	1,2-Dichlorobenzene	< 0.2	ug/kg	
J08-SB03-2-S	20.75-21.0	8/18/94	8260	1,2-Dichloroethane	< 0.6	ug/kg	
J08-SB03-2-S	20.75-21.0	8/18/94	8260	1,2-Dichloropropane	< 0.8	ug/kg	
J08-SB03-2-S	20.75-21.0	8/18/94	8260	1,3-Dichlorobenzene	< 0.2	ug/kg	
J08-SB03-2-S	20.75-21.0	8/18/94	8260	1,4-Dichlorobenzene	< 0.4	ug/kg	
J08-SB03-2-S	20.75-21.0	8/18/94	8260	2-Chloroethylvinylether	< 0.6	ug/kg	
J08-SB03-2-S	20.75-21.0	8/18/94	8260	Benzene	< 0.2	ug/kg	
J08-SB03-2-S	20.75-21.0	8/18/94	8260	Benzyl chloride	< 0.6	ug/kg	
J08-SB03-2-S	20.75-21.0	8/18/94	8260	Bromobenzene	< 0.4	ug/kg	
J08-SB03-2-S	20.75-21.0	8/18/94	8260	Bromodichloromethane	< 0.2	ug/kg	

Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J08-SB03-2-S	20.75-21.0	8/18/94	8260	Bromoform	< 0.2	ug/kg	
J08-SB03-2-S	20.75-21.0	8/18/94	8260	Bromomethane	< 0.2	ug/kg	
J08-SB03-2-S	20.75-21.0	8/18/94	8260	Carbon Tetrachloride	< 0.6	ug/kg	
J08-SB03-2-S	20.75-21.0	8/18/94	8260	Chlorobenzene	< 0.2	ug/kg	
J08-SB03-2-S	20.75-21.0	8/18/94	8260	Chloroethane	< 0.2	ug/kg	
J08-SB03-2-S	20.75-21.0	8/18/94	8260	Chloroform	< 0.2	ug/kg	
J08-SB03-2-S	20.75-21.0	8/18/94	8260	Chloromethane	< 0.6	ug/kg	
J08-SB03-2-S	20.75-21.0	8/18/94	8260	cis-1,3-Dichloropropene	< 0.2	ug/kg	
J08-SB03-2-S	20.75-21.0	8/18/94	8260	Dibromochloromethane	< 0.6	ug/kg	
J08-SB03-2-S	20.75-21.0	8/18/94	8260	Dibromomethane	< 0.2	ug/kg	
J08-SB03-2-S	20.75-21.0	8/18/94	8260	Dichlorodifluoromethane	< 0.1	ug/kg	
J08-SB03-2-S	20.75-21.0	8/18/94	8260	Ethylbenzene	< 0.2	ug/kg	
J08-SB03-2-S	20.75-21.0	8/18/94	8260	Methylene chloride	< 0.4	ug/kg	
J08-SB03-2-S	20.75-21.0	8/18/94	8260	Tetrachloroethene	< 0.6	ug/kg	
J08-SB03-2-S	20.75-21.0	8/18/94	8260	Toluene	< 0.4	ug/kg	
J08-SB03-2-S	20.75-21.0	8/18/94	8260	Total Xylene Isomers	< 0.6	ug/kg	
J08-SB03-2-S	20.75-21.0	8/18/94	8260	trans-1,2-Dichloroethene	< 0.2	ug/kg	
J08-SB03-2-S	20.75-21.0	8/18/94	8260	trans-1,3-Dichloropropene	< 0.2	ug/kg	
J08-SB03-2-S	20.75-21.0	8/18/94	8260	Trichloroethene	< 1	ug/kg	
J08-SB03-2-S	20.75-21.0	8/18/94	8260	Trichlorofluoromethane	< 0.1	ug/kg	R
J08-SB03-2-S	20.75-21.0	8/18/94	8260	Vinyl chloride	< 0.2	ug/kg	
J08-SB03-2-S	20.5-20.75	8/18/94	D2216	Moisture/TNFR	3.2	percent	
J08-SB03-2-S	20.5-20.75	8/18/94	D2216	Moisture/TNFR	2.5	percent	

J08-SB03-2-SD (DP214	11.25-11.5	8/18/94	6010	Arsenic	4.3	mg/kg	J
J08-SB03-2-SD (DP214	11.25-11.5	8/18/94	6010	Barium	110	mg/kg	J
J08-SB03-2-SD (DP214	11.25-11.5	8/18/94	6010	Cadmium	1.4	mg/kg	
J08-SB03-2-SD (DP214	11.25-11.5	8/18/94	6010	Chromium	8	mg/kg	
J08-SB03-2-SD (DP214	11.25-11.5	8/18/94	6010	Lead	8.4	mg/kg	J
J08-SB03-2-SD (DP214	11.25-11.5	8/18/94	6010	Selenium	< 5	mg/kg	
J08-SB03-2-SD (DP214	11.25-11.5	8/18/94	6010	Silver	< 1	mg/kg	
J08-SB03-2-SD (DP214	11.25-11.5	8/18/94	7471	Mercury	< 0.04	mg/kg	
J08-SB03-2-SD (DP216	11.75-12.0	8/18/94	8260	1,1,1,2-Tetrachloroethane	< 0.4	ug/kg	
J08-SB03-2-SD (DP216	11.75-12.0	8/18/94	8260	1,1,1-Trichloroethane	< 0.6	ug/kg	
J08-SB03-2-SD (DP216	11.75-12.0	8/18/94	8260	1,1,2,2-Tetrachloroethane	< 0.2	ug/kg	
J08-SB03-2-SD (DP216	11.75-12.0	8/18/94	8260	1,1,2-Trichloroethane	< 0.4	ug/kg	
J08-SB03-2-SD (DP216	11.75-12.0	8/18/94	8260	1,1-Dichloroethane	< 0.2	ug/kg	
J08-SB03-2-SD (DP216	11.75-12.0	8/18/94	8260	1,1-Dichloroethene	< 0.2	ug/kg	
J08-SB03-2-SD (DP216	11.75-12.0	8/18/94	8260	1,2,3-Trichloropropane	< 0.8	ug/kg	
J08-SB03-2-SD (DP216	11.75-12.0	8/18/94	8260	1,2-Dichlorobenzene	< 0.2	ug/kg	
J08-SB03-2-SD (DP216	11.75-12.0	8/18/94	8260	1,2-Dichloroethane	< 0.6	ug/kg	
J08-SB03-2-SD (DP216	11.75-12.0	8/18/94	8260	1,2-Dichloropropane	< 0.8	ug/kg	
J08-SB03-2-SD (DP216	11.75-12.0	8/18/94	8260	1,3-Dichlorobenzene	< 0.2	ug/kg	
J08-SB03-2-SD (DP216	11.75-12.0	8/18/94	8260	1,4-Dichlorobenzene	< 0.4	ug/kg	
J08-SB03-2-SD (DP216	11.75-12.0	8/18/94	8260	2-Chloroethylvinylether	< 0.6	ug/kg	
J08-SB03-2-SD (DP216	11.75-12.0	8/18/94	8260	Benzene	< 0.2	ug/kg	

Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J08-SB03-2-SD (DP216	11.75-12.0	8/18/94	8260	Benzyl chloride	< 0.6	ug/kg	
J08-SB03-2-SD (DP216	11.75-12.0	8/18/94	8260	Bromobenzene	< 0.4	ug/kg	
J08-SB03-2-SD (DP216	11.75-12.0	8/18/94	8260	Bromodichloromethane	< 0.2	ug/kg	
J08-SB03-2-SD (DP216	11.75-12.0	8/18/94	8260	Bromoform	< 0.2	ug/kg	
J08-SB03-2-SD (DP216	11.75-12.0	8/18/94	8260	Bromomethane	< 0.2	ug/kg	
J08-SB03-2-SD (DP216	11.75-12.0	8/18/94	8260	Carbon Tetrachloride	< 0.6	ug/kg	
J08-SB03-2-SD (DP216	11.75-12.0	8/18/94	8260	Chlorobenzene	< 0.2	ug/kg	
J08-SB03-2-SD (DP216	11.75-12.0	8/18/94	8260	Chloroethane	< 0.2	ug/kg	
J08-SB03-2-SD (DP216	11.75-12.0	8/18/94	8260	Chloroform	< 0.2	ug/kg	
J08-SB03-2-SD (DP216	11.75-12.0	8/18/94	8260	Chloromethane	< 0.6	ug/kg	
J08-SB03-2-SD (DP216	11.75-12.0	8/18/94	8260	cis-1,3-Dichloropropene	< 0.2	ug/kg	
J08-SB03-2-SD (DP216	11.75-12.0	8/18/94	8260	Dibromochloromethane	< 0.6	ug/kg	
J08-SB03-2-SD (DP216	11.75-12.0	8/18/94	8260	Dibromomethane	< 0.2	ug/kg	
J08-SB03-2-SD (DP216	11.75-12.0	8/18/94	8260	Dichlorodifluoromethane	< 0.1	ug/kg	
J08-SB03-2-SD (DP216	11.75-12.0	8/18/94	8260	Ethylbenzene	< 0.2	ug/kg	
J08-SB03-2-SD (DP216	11.75-12.0	8/18/94	8260	Methylene chloride	< 0.4	ug/kg	
J08-SB03-2-SD (DP216	11.75-12.0	8/18/94	8260	Tetrachloroethene	< 0.6	ug/kg	
J08-SB03-2-SD (DP216	11.75-12.0	8/18/94	8260	Toluene	< 0.4	ug/kg	
J08-SB03-2-SD (DP216	11.75-12.0	8/18/94	8260	Total Xylene Isomers	< 0.6	ug/kg	
J08-SB03-2-SD (DP216	11.75-12.0	8/18/94	8260	trans-1,2-Dichloroethene	< 0.2	ug/kg	
J08-SB03-2-SD (DP216	11.75-12.0	8/18/94	8260	trans-1,3-Dichloropropene	< 0.2	ug/kg	
J08-SB03-2-SD (DP216	11.75-12.0	8/18/94	8260	Trichloroethene	< 1	ug/kg	
J08-SB03-2-SD (DP216	11.75-12.0	8/18/94	8260	Trichlorofluoromethane	< 0.1	ug/kg	
J08-SB03-2-SD (DP216	11.75-12.0	8/18/94	8260	Vinyl chloride	< 0.2	ug/kg	
J08-SB03-2-SD (DP214	11.25-11.5	8/18/94	D2216	Moisture/TNFR	8	percent	
J08-SB03-2-SD (DP216	11.75-12.0	8/18/94	D2216	Moisture/TNFR	5.6	percent	

J08-SB03-3-ER	n/a	8/17/94	8260	1,1,1,2-Tetrachloroethane	< 0.2	ug/L	
J08-SB03-3-ER	n/a	8/17/94	8260	1,1,1-Trichloroethane	3	ug/L	
J08-SB03-3-ER	n/a	8/17/94	8260	1,1,2,2-Tetrachloroethane	< 0.07	ug/L	
J08-SB03-3-ER	n/a	8/17/94	8260	1,1,2-Trichloroethane	< 0.2	ug/L	
J08-SB03-3-ER	n/a	8/17/94	8260	1,1-Dichloroethane	< 0.08	ug/L	
J08-SB03-3-ER	n/a	8/17/94	8260	1,1-Dichloroethene	< 0.06	ug/L	
J08-SB03-3-ER	n/a	8/17/94	8260	1,2,3-Trichloropropane	< 0.4	ug/L	
J08-SB03-3-ER	n/a	8/17/94	8260	1,2-Dichlorobenzene	< 0.09	ug/L	
J08-SB03-3-ER	n/a	8/17/94	8260	1,2-Dichloroethane	< 0.3	ug/L	
J08-SB03-3-ER	n/a	8/17/94	8260	1,2-Dichloropropane	< 0.4	ug/L	
J08-SB03-3-ER	n/a	8/17/94	8260	1,3-Dichlorobenzene	< 0.1	ug/L	
J08-SB03-3-ER	n/a	8/17/94	8260	1,4-Dichlorobenzene	< 0.2	ug/L	
J08-SB03-3-ER	n/a	8/17/94	8260	2-Chloroethylvinylether	< 0.3	ug/L	
J08-SB03-3-ER	n/a	8/17/94	8260	Benzene	< 0.1	ug/L	
J08-SB03-3-ER	n/a	8/17/94	8260	Benzyl chloride	< 0.3	ug/L	
J08-SB03-3-ER	n/a	8/17/94	8260	Bromobenzene	< 0.2	ug/L	
J08-SB03-3-ER	n/a	8/17/94	8260	Bromodichloromethane	< 0.09	ug/L	
J08-SB03-3-ER	n/a	8/17/94	8260	Bromoform	< 0.07	ug/L	
J08-SB03-3-ER	n/a	8/17/94	8260	Bromomethane	< 0.1	ug/L	

Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J08-SB03-3-ER	n/a	8/17/94	8260	Carbon Tetrachloride	< 0.3	ug/L	
J08-SB03-3-ER	n/a	8/17/94	8260	Chlorobenzene	< 0.07	ug/L	
J08-SB03-3-ER	n/a	8/17/94	8260	Chloroethane	< 0.1	ug/L	
J08-SB03-3-ER	n/a	8/17/94	8260	Chloroform	< 0.1	ug/L	
J08-SB03-3-ER	n/a	8/17/94	8260	Chloromethane	< 0.3	ug/L	
J08-SB03-3-ER	n/a	8/17/94	8260	cis-1,3-Dichloropropene	< 0.06	ug/L	
J08-SB03-3-ER	n/a	8/17/94	8260	Dibromochloromethane	< 0.3	ug/L	
J08-SB03-3-ER	n/a	8/17/94	8260	Dibromomethane	< 0.1	ug/L	
J08-SB03-3-ER	n/a	8/17/94	8260	Dichlorodifluoromethane	< 0.05	ug/L	
J08-SB03-3-ER	n/a	8/17/94	8260	Ethylbenzene	< 0.09	ug/L	
J08-SB03-3-ER	n/a	8/17/94	8260	Methylene chloride	1.9	ug/L	J
J08-SB03-3-ER	n/a	8/17/94	8260	Tetrachloroethene	< 0.3	ug/L	
J08-SB03-3-ER	n/a	8/17/94	8260	Toluene	< 0.2	ug/L	
J08-SB03-3-ER	n/a	8/17/94	8260	Total Xylene Isomers	< 0.3	ug/L	
J08-SB03-3-ER	n/a	8/17/94	8260	trans-1,2-Dichloroethene	< 0.1	ug/L	
J08-SB03-3-ER	n/a	8/17/94	8260	trans-1,3-Dichloropropene	< 0.09	ug/L	
J08-SB03-3-ER	n/a	8/17/94	8260	Trichloroethene	< 0.5	ug/L	
J08-SB03-3-ER	n/a	8/17/94	8260	Trichlorofluoromethane	< 0.05	ug/L	
J08-SB03-3-ER	n/a	8/17/94	8260	Vinyl chloride	< 0.07	ug/L	
J08-SB03-3-S	26.25-26.5	8/17/94	6010	Arsenic	< 4	mg/kg	
J08-SB03-3-S	26.25-26.5	8/17/94	6010	Barium	95	mg/kg	
J08-SB03-3-S	26.25-26.5	8/17/94	6010	Cadmium	1.2	mg/kg	
J08-SB03-3-S	26.25-26.5	8/17/94	6010	Chromium	5.1	mg/kg	
J08-SB03-3-S	26.25-26.5	8/17/94	6010	Lead	< 5	mg/kg	
J08-SB03-3-S	26.25-26.5	8/17/94	6010	Selenium	< 5	mg/kg	
J08-SB03-3-S	26.25-26.5	8/17/94	6010	Silver	< 0.9	mg/kg	
J08-SB03-3-S	26.25-26.5	8/17/94	7471	Mercury	< 0.04	mg/kg	
J08-SB03-3-S	26.5-26.75	8/18/94	8015M	TPH (as diesel)	< 1	mg/kg	
J08-SB03-3-S	26.75-27.0	8/17/94	8260	1,1,1,2-Tetrachloroethane	< 0.4	ug/kg	
J08-SB03-3-S	26.75-27.0	8/17/94	8260	1,1,1-Trichloroethane	< 0.6	ug/kg	
J08-SB03-3-S	26.75-27.0	8/17/94	8260	1,1,2,2-Tetrachloroethane	< 0.2	ug/kg	
J08-SB03-3-S	26.75-27.0	8/17/94	8260	1,1,2-Trichloroethane	< 0.4	ug/kg	
J08-SB03-3-S	26.75-27.0	8/17/94	8260	1,1-Dichloroethane	< 0.2	ug/kg	
J08-SB03-3-S	26.75-27.0	8/17/94	8260	1,1-Dichloroethene	< 0.2	ug/kg	
J08-SB03-3-S	26.75-27.0	8/17/94	8260	1,2,3-Trichloropropane	< 0.8	ug/kg	
J08-SB03-3-S	26.75-27.0	8/17/94	8260	1,2-Dichlorobenzene	< 0.2	ug/kg	
J08-SB03-3-S	26.75-27.0	8/17/94	8260	1,2-Dichloroethane	< 0.6	ug/kg	
J08-SB03-3-S	26.75-27.0	8/17/94	8260	1,2-Dichloropropane	< 0.8	ug/kg	
J08-SB03-3-S	26.75-27.0	8/17/94	8260	1,3-Dichlorobenzene	< 0.2	ug/kg	
J08-SB03-3-S	26.75-27.0	8/17/94	8260	1,4-Dichlorobenzene	< 0.4	ug/kg	
J08-SB03-3-S	26.75-27.0	8/17/94	8260	2-Chloroethylvinylether	< 0.6	ug/kg	
J08-SB03-3-S	26.75-27.0	8/17/94	8260	Benzene	< 0.2	ug/kg	
J08-SB03-3-S	26.75-27.0	8/17/94	8260	Benzyl chloride	< 0.6	ug/kg	
J08-SB03-3-S	26.75-27.0	8/17/94	8260	Bromobenzene	< 0.4	ug/kg	
J08-SB03-3-S	26.75-27.0	8/17/94	8260	Bromodichloromethane	< 0.2	ug/kg	

Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J08-SB03-3-S	26.75-27.0	8/17/94	8260	Bromoform	< 0.2	ug/kg	
J08-SB03-3-S	26.75-27.0	8/17/94	8260	Bromomethane	< 0.2	ug/kg	
J08-SB03-3-S	26.75-27.0	8/17/94	8260	Carbon Tetrachloride	< 0.6	ug/kg	
J08-SB03-3-S	26.75-27.0	8/17/94	8260	Chlorobenzene	< 0.2	ug/kg	
J08-SB03-3-S	26.75-27.0	8/17/94	8260	Chloroethane	< 0.2	ug/kg	
J08-SB03-3-S	26.75-27.0	8/17/94	8260	Chloroform	< 0.2	ug/kg	
J08-SB03-3-S	26.75-27.0	8/17/94	8260	Chloromethane	< 0.6	ug/kg	
J08-SB03-3-S	26.75-27.0	8/17/94	8260	cis-1,3-Dichloropropene	< 0.2	ug/kg	
J08-SB03-3-S	26.75-27.0	8/17/94	8260	Dibromochloromethane	< 0.6	ug/kg	
J08-SB03-3-S	26.75-27.0	8/17/94	8260	Dibromomethane	< 0.2	ug/kg	
J08-SB03-3-S	26.75-27.0	8/17/94	8260	Dichlorodifluoromethane	< 0.1	ug/kg	
J08-SB03-3-S	26.75-27.0	8/17/94	8260	Ethylbenzene	< 0.2	ug/kg	
J08-SB03-3-S	26.75-27.0	8/17/94	8260	Methylene chloride	< 0.4	ug/kg	
J08-SB03-3-S	26.75-27.0	8/17/94	8260	Tetrachloroethene	< 0.6	ug/kg	
J08-SB03-3-S	26.75-27.0	8/17/94	8260	Toluene	< 0.4	ug/kg	
J08-SB03-3-S	26.75-27.0	8/17/94	8260	Total Xylene Isomers	< 0.6	ug/kg	
J08-SB03-3-S	26.75-27.0	8/17/94	8260	trans-1,2-Dichloroethene	< 0.2	ug/kg	
J08-SB03-3-S	26.75-27.0	8/17/94	8260	trans-1,3-Dichloropropene	< 0.2	ug/kg	
J08-SB03-3-S	26.75-27.0	8/17/94	8260	Trichloroethene	< 1	ug/kg	
J08-SB03-3-S	26.75-27.0	8/17/94	8260	Trichlorofluoromethane	< 0.1	ug/kg	R
J08-SB03-3-S	26.75-27.0	8/17/94	8260	Vinyl chloride	< 0.2	ug/kg	
J08-SB03-3-S	26.5-26.75	8/18/94	D2216	Moisture/TNFR	10	percent	
J08-SB03-3-S	26.5-26.75	8/18/94	D2216	Moisture/TNFR	3.5	percent	
J08-SG01	5.0	6/23/94	M8010	1,1,1-Trichloroethane	< 1	ug/L	
J08-SG01	5.0	6/23/94	M8010	1,1,2-Trichloroethane	< 1	ug/L	
J08-SG01	5.0	6/23/94	M8010	1,1-Dichloroethane	< 1	ug/L	
J08-SG01	5.0	6/23/94	M8010	1,1-Dichloroethene	< 1	ug/L	
J08-SG01	5.0	6/23/94	M8010	Carbon Tetrachloride	< 1	ug/L	
J08-SG01	5.0	6/23/94	M8010	Chloroform	< 1	ug/L	
J08-SG01	5.0	6/23/94	M8010	cis-1,2-Dichloroethene	< 1	ug/L	
J08-SG01	5.0	6/23/94	M8010	Methylene Chloride	< 1	ug/L	
J08-SG01	5.0	6/23/94	M8010	Tetrachloroethene	< 1	ug/L	
J08-SG01	5.0	6/23/94	M8010	trans-1,2-Dichloroethene	< 1	ug/L	
J08-SG01	5.0	6/23/94	M8010	Trichloroethene	< 1	ug/L	
J08-SG01	5.0	6/23/94	M8020	Benzene	< 1	ug/L	
J08-SG01	5.0	6/23/94	M8020	Ethylbenzene	< 1	ug/L	
J08-SG01	5.0	6/23/94	M8020	Toluene	< 1	ug/L	
J08-SG01	5.0	6/23/94	M8020	Total FID Volatiles	< 10	ug/L	
J08-SG01	5.0	6/23/94	M8020	Total Xylene Isomers	< 1	ug/L	
J08-SG02	5.0	6/23/94	M8010	1,1,1-Trichloroethane	< 1	ug/L	
J08-SG02	5.0	6/23/94	M8010	1,1,2-Trichloroethane	< 1	ug/L	
J08-SG02	5.0	6/23/94	M8010	1,1-Dichloroethane	< 1	ug/L	
J08-SG02	5.0	6/23/94	M8010	1,1-Dichloroethene	< 1	ug/L	

Summary Table of Analytical Data

SWMU J08 - Dock 4/Landfill

Hawthorne Army Depot

Hawthorne, Nevada

January 1996

FINAL

FINAL

Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J08-SG02	5.0	6/23/94	M8010	Carbon Tetrachloride	< 1	ug/L	
J08-SG02	5.0	6/23/94	M8010	Chloroform	< 1	ug/L	
J08-SG02	5.0	6/23/94	M8010	cis-1,2-Dichloroethene	< 1	ug/L	
J08-SG02	5.0	6/23/94	M8010	Methylene Chloride	< 1	ug/L	
J08-SG02	5.0	6/23/94	M8010	Tetrachloroethene	< 1	ug/L	
J08-SG02	5.0	6/23/94	M8010	trans-1,2-Dichloroethene	< 1	ug/L	
J08-SG02	5.0	6/23/94	M8010	Trichloroethene	< 1	ug/L	
J08-SG02	5.0	6/23/94	M8020	Benzene	< 1	ug/L	
J08-SG02	5.0	6/23/94	M8020	Ethylbenzene	< 1	ug/L	
J08-SG02	5.0	6/23/94	M8020	Toluene	< 1	ug/L	
J08-SG02	5.0	6/23/94	M8020	Total FID Volatiles	< 10	ug/L	
J08-SG02	5.0	6/23/94	M8020	Total Xylene Isomers.	< 1	ug/L	
J08-SG03	5.0	6/23/94	M8010	1,1,1-Trichloroethane	< 1	ug/L	
J08-SG03	5.0	6/23/94	M8010	1,1,2-Trichloroethane	< 1	ug/L	
J08-SG03	5.0	6/23/94	M8010	1,1-Dichloroethane	< 1	ug/L	
J08-SG03	5.0	6/23/94	M8010	1,1-Dichloroethene	< 1	ug/L	
J08-SG03	5.0	6/23/94	M8010	Carbon Tetrachloride	< 1	ug/L	
J08-SG03	5.0	6/23/94	M8010	Chloroform	< 1	ug/L	
J08-SG03	5.0	6/23/94	M8010	cis-1,2-Dichloroethene	< 1	ug/L	
J08-SG03	5.0	6/23/94	M8010	Methylene Chloride	< 1	ug/L	
J08-SG03	5.0	6/23/94	M8010	Tetrachloroethene	< 1	ug/L	
J08-SG03	5.0	6/23/94	M8010	trans-1,2-Dichloroethene	< 1	ug/L	
J08-SG03	5.0	6/23/94	M8010	Trichloroethene	< 1	ug/L	
J08-SG03	5.0	6/23/94	M8020	Benzene	< 1	ug/L	
J08-SG03	5.0	6/23/94	M8020	Ethylbenzene	< 1	ug/L	
J08-SG03	5.0	6/23/94	M8020	Toluene	< 1	ug/L	
J08-SG03	5.0	6/23/94	M8020	Total FID Volatiles	< 10	ug/L	
J08-SG03	5.0	6/23/94	M8020	Total Xylene Isomers	< 1	ug/L	
J08-SG04	5.0	6/23/94	M8010	1,1,1-Trichloroethane	< 1	ug/L	
J08-SG04	5.0	6/23/94	M8010	1,1,2-Trichloroethane	< 1	ug/L	
J08-SG04	5.0	6/23/94	M8010	1,1-Dichloroethane	< 1	ug/L	
J08-SG04	5.0	6/23/94	M8010	1,1-Dichloroethene	< 1	ug/L	
J08-SG04	5.0	6/23/94	M8010	Carbon Tetrachloride	< 1	ug/L	
J08-SG04	5.0	6/23/94	M8010	Chloroform	< 1	ug/L	
J08-SG04	5.0	6/23/94	M8010	cis-1,2-Dichloroethene	< 1	ug/L	
J08-SG04	5.0	6/23/94	M8010	Methylene Chloride	< 1	ug/L	
J08-SG04	5.0	6/23/94	M8010	Tetrachloroethene	< 1	ug/L	
J08-SG04	5.0	6/23/94	M8010	trans-1,2-Dichloroethene	< 1	ug/L	
J08-SG04	5.0	6/23/94	M8010	Trichloroethene	< 1	ug/L	
J08-SG04	5.0	6/23/94	M8020	Benzene	< 1	ug/L	
J08-SG04	5.0	6/23/94	M8020	Ethylbenzene	< 1	ug/L	
J08-SG04	5.0	6/23/94	M8020	Toluene	< 1	ug/L	
J08-SG04	5.0	6/23/94	M8020	Total FID Volatiles	< 10	ug/L	

Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J08-SG04	5.0	6/23/94	M8020	Total Xylene Isomers	< 1	ug/L	
J08-SG05	5.0	6/23/94	M8010	1,1,1-Trichloroethane	< 1	ug/L	
J08-SG05	5.0	6/23/94	M8010	1,1,2-Trichloroethane	< 1	ug/L	
J08-SG05	5.0	6/23/94	M8010	1,1-Dichloroethane	< 1	ug/L	
J08-SG05	5.0	6/23/94	M8010	1,1-Dichloroethene	< 1	ug/L	
J08-SG05	5.0	6/23/94	M8010	Carbon Tetrachloride	< 1	ug/L	
J08-SG05	5.0	6/23/94	M8010	Chloroform	< 1	ug/L	
J08-SG05	5.0	6/23/94	M8010	cis-1,2-Dichloroethene	< 1	ug/L	
J08-SG05	5.0	6/23/94	M8010	Methylene Chloride	< 1	ug/L	
J08-SG05	5.0	6/23/94	M8010	Tetrachloroethene	< 1	ug/L	
J08-SG05	5.0	6/23/94	M8010	trans-1,2-Dichloroethene	< 1	ug/L	
J08-SG05	5.0	6/23/94	M8010	Trichloroethene	< 1	ug/L	
J08-SG05	5.0	6/23/94	M8020	Benzene	< 1	ug/L	
J08-SG05	5.0	6/23/94	M8020	Ethylbenzene	< 1	ug/L	
J08-SG05	5.0	6/23/94	M8020	Toluene	< 1	ug/L	
J08-SG05	5.0	6/23/94	M8020	Total FID Volatiles	< 10	ug/L	
J08-SG05	5.0	6/23/94	M8020	Total Xylene Isomers	< 1	ug/L	
J08-SG06	5.0	6/23/94	M8010	1,1,1-Trichloroethane	< 1	ug/L	
J08-SG06	5.0	6/23/94	M8010	1,1,2-Trichloroethane	< 1	ug/L	
J08-SG06	5.0	6/23/94	M8010	1,1-Dichloroethane	< 1	ug/L	
J08-SG06	5.0	6/23/94	M8010	1,1-Dichloroethene	< 1	ug/L	
J08-SG06	5.0	6/23/94	M8010	Carbon Tetrachloride	< 1	ug/L	
J08-SG06	5.0	6/23/94	M8010	Chloroform	< 1	ug/L	
J08-SG06	5.0	6/23/94	M8010	cis-1,2-Dichloroethene	< 1	ug/L	
J08-SG06	5.0	6/23/94	M8010	Methylene Chloride	< 1	ug/L	
J08-SG06	5.0	6/23/94	M8010	Tetrachloroethene	< 1	ug/L	
J08-SG06	5.0	6/23/94	M8010	trans-1,2-Dichloroethene	< 1	ug/L	
J08-SG06	5.0	6/23/94	M8010	Trichloroethene	< 1	ug/L	
J08-SG06	5.0	6/23/94	M8020	Benzene	< 1	ug/L	
J08-SG06	5.0	6/23/94	M8020	Ethylbenzene	< 1	ug/L	
J08-SG06	5.0	6/23/94	M8020	Toluene	< 1	ug/L	
J08-SG06	5.0	6/23/94	M8020	Total FID Volatiles	< 10	ug/L	
J08-SG06	5.0	6/23/94	M8020	Total Xylene Isomers	< 1	ug/L	
J08-SG07	5.0	6/23/94	M8010	1,1,1-Trichloroethane	< 1	ug/L	
J08-SG07	5.0	6/23/94	M8010	1,1,2-Trichloroethane	< 1	ug/L	
J08-SG07	5.0	6/23/94	M8010	1,1-Dichloroethane	< 1	ug/L	
J08-SG07	5.0	6/23/94	M8010	1,1-Dichloroethene	< 1	ug/L	
J08-SG07	5.0	6/23/94	M8010	Carbon Tetrachloride	< 1	ug/L	
J08-SG07	5.0	6/23/94	M8010	Chloroform	< 1	ug/L	
J08-SG07	5.0	6/23/94	M8010	cis-1,2-Dichloroethene	< 1	ug/L	
J08-SG07	5.0	6/23/94	M8010	Methylene Chloride	< 1	ug/L	
J08-SG07	5.0	6/23/94	M8010	Tetrachloroethene	< 1	ug/L	

Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J08-SG07	5.0	6/23/94	M8010	trans-1,2-Dichloroethene	< 1	ug/L	
J08-SG07	5.0	6/23/94	M8010	Trichloroethene	< 1	ug/L	
J08-SG07	5.0	6/23/94	M8020	Benzene	< 1	ug/L	
J08-SG07	5.0	6/23/94	M8020	Ethylbenzene	< 1	ug/L	
J08-SG07	5.0	6/23/94	M8020	Toluene	< 1	ug/L	
J08-SG07	5.0	6/23/94	M8020	Total FID Volatiles	< 10	ug/L	
J08-SG07	5.0	6/23/94	M8020	Total Xylene Isomers	< 1	ug/L	
J08-SG08	5.0	6/23/94	M8010	1,1,1-Trichloroethane	< 1	ug/L	
J08-SG08	5.0	6/23/94	M8010	1,1,2-Trichloroethane	< 1	ug/L	
J08-SG08	5.0	6/23/94	M8010	1,1-Dichloroethane	< 1	ug/L	
J08-SG08	5.0	6/23/94	M8010	1,1-Dichloroethene	< 1	ug/L	
J08-SG08	5.0	6/23/94	M8010	Carbon Tetrachloride	< 1	ug/L	
J08-SG08	5.0	6/23/94	M8010	Chloroform	< 1	ug/L	
J08-SG08	5.0	6/23/94	M8010	cis-1,2-Dichloroethene	< 1	ug/L	
J08-SG08	5.0	6/23/94	M8010	Methylene Chloride	< 1	ug/L	
J08-SG08	5.0	6/23/94	M8010	Tetrachloroethene	< 1	ug/L	
J08-SG08	5.0	6/23/94	M8010	trans-1,2-Dichloroethene	< 1	ug/L	
J08-SG08	5.0	6/23/94	M8010	Trichloroethene	< 1	ug/L	
J08-SG08	5.0	6/23/94	M8020	Benzene	< 1	ug/L	
J08-SG08	5.0	6/23/94	M8020	Ethylbenzene	< 1	ug/L	
J08-SG08	5.0	6/23/94	M8020	Toluene	< 1	ug/L	
J08-SG08	5.0	6/23/94	M8020	Total FID Volatiles	< 10	ug/L	
J08-SG08	5.0	6/23/94	M8020	Total Xylene Isomers	< 1	ug/L	
J08-SG09	5.0	6/23/94	M8010	1,1,1-Trichloroethane	< 1	ug/L	
J08-SG09	5.0	6/23/94	M8010	1,1,2-Trichloroethane	< 1	ug/L	
J08-SG09	5.0	6/23/94	M8010	1,1-Dichloroethane	< 1	ug/L	
J08-SG09	5.0	6/23/94	M8010	1,1-Dichloroethene	< 1	ug/L	
J08-SG09	5.0	6/23/94	M8010	Carbon Tetrachloride	< 1	ug/L	
J08-SG09	5.0	6/23/94	M8010	Chloroform	< 1	ug/L	
J08-SG09	5.0	6/23/94	M8010	cis-1,2-Dichloroethene	< 1	ug/L	
J08-SG09	5.0	6/23/94	M8010	Methylene Chloride	< 1	ug/L	
J08-SG09	5.0	6/23/94	M8010	Tetrachloroethene	< 1	ug/L	
J08-SG09	5.0	6/23/94	M8010	trans-1,2-Dichloroethene	< 1	ug/L	
J08-SG09	5.0	6/23/94	M8010	Trichloroethene	< 1	ug/L	
J08-SG09	5.0	6/23/94	M8020	Benzene	< 1	ug/L	
J08-SG09	5.0	6/23/94	M8020	Ethylbenzene	< 1	ug/L	
J08-SG09	5.0	6/23/94	M8020	Toluene	< 1	ug/L	
J08-SG09	5.0	6/23/94	M8020	Total FID Volatiles	< 10	ug/L	
J08-SG09	5.0	6/23/94	M8020	Total Xylene Isomers	< 1	ug/L	
J08-SG10	5.0	6/23/94	M8010	1,1,1-Trichloroethane	< 1	ug/L	
J08-SG10	5.0	6/23/94	M8010	1,1,2-Trichloroethane	< 1	ug/L	
J08-SG10	5.0	6/23/94	M8010	1,1-Dichloroethane	< 1	ug/L	

Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J08-SG10	5.0	6/23/94	M8010	1,1-Dichloroethene	< 1	ug/L	
J08-SG10	5.0	6/23/94	M8010	Carbon Tetrachloride	< 1	ug/L	
J08-SG10	5.0	6/23/94	M8010	Chloroform	< 1	ug/L	
J08-SG10	5.0	6/23/94	M8010	cis-1,2-Dichloroethene	< 1	ug/L	
J08-SG10	5.0	6/23/94	M8010	Methylene Chloride	< 1	ug/L	
J08-SG10	5.0	6/23/94	M8010	Tetrachloroethene	< 1	ug/L	
J08-SG10	5.0	6/23/94	M8010	trans-1,2-Dichloroethene	< 1	ug/L	
J08-SG10	5.0	6/23/94	M8010	Trichloroethene	< 1	ug/L	
J08-SG10	5.0	6/23/94	M8020	Benzene	< 1	ug/L	
J08-SG10	5.0	6/23/94	M8020	Ethylbenzene	< 1	ug/L	
J08-SG10	5.0	6/23/94	M8020	Toluene	< 1	ug/L	
J08-SG10	5.0	6/23/94	M8020	Total FID Volatiles	< 10	ug/L	
J08-SG10	5.0	6/23/94	M8020	Total Xylene Isomers	< 1	ug/L	
J08-SS01-1-S	0.25-0.5	7/11/94	6010	Arsenic	12	mg/kg	J
J08-SS01-1-S	0.25-0.5	7/11/94	6010	Barium	100	mg/kg	
J08-SS01-1-S	0.25-0.5	7/11/94	6010	Cadmium	1.3	mg/kg	
J08-SS01-1-S	0.25-0.5	7/11/94	6010	Chromium	5.2	mg/kg	
J08-SS01-1-S	0.25-0.5	7/11/94	6010	Lead	13	mg/kg	J
J08-SS01-1-S	0.25-0.5	7/11/94	6010	Selenium	< 5	mg/kg	
J08-SS01-1-S	0.25-0.5	7/11/94	6010	Silver	< 1	mg/kg	
J08-SS01-1-S	0.25-0.5	7/11/94	7471	Mercury	< 0.04	mg/kg	
J08-SS01-1-S	0.25-0.5	7/11/94	8015M	TPH (as diesel)	1.2	mg/kg	J
J08-SS01-1-S	0.25-0.5	7/11/94	D2216	Moisture/TNFR	8.3	percent	
J08-SS01-1-S	0.25-0.5	7/11/94	D2216	Moisture/TNFR	6.7	percent	
J08-SS01-1-S	0.25-0.5	7/11/94	D4031	Immunoassay BTEX	10< X <50	mg/kg	
J08-SS02-1-S	0.25-0.5	7/11/94	6010	Arsenic	10	mg/kg	J
J08-SS02-1-S	0.25-0.5	7/11/94	6010	Barium	91	mg/kg	
J08-SS02-1-S	0.25-0.5	7/11/94	6010	Cadmium	1.2	mg/kg	
J08-SS02-1-S	0.25-0.5	7/11/94	6010	Chromium	4.8	mg/kg	J
J08-SS02-1-S	0.25-0.5	7/11/94	6010	Lead	7.2	mg/kg	J
J08-SS02-1-S	0.25-0.5	7/11/94	6010	Selenium	< 5	mg/kg	
J08-SS02-1-S	0.25-0.5	7/11/94	6010	Silver	< 0.9	mg/kg	
J08-SS02-1-S	0.25-0.5	7/11/94	7471	Mercury	< 0.04	mg/kg	
J08-SS02-1-S	0.25-0.5	7/11/94	8015M	TPH (as diesel)	< 1	mg/kg	
J08-SS02-1-S	0.25-0.5	7/11/94	D2216	Moisture/TNFR	1.2	percent	
J08-SS02-1-S	0.25-0.5	7/11/94	D4031	Immunoassay BTEX	<2	mg/kg	
J08-SS03-1-S	0.25-0.5	7/11/94	6010	Arsenic	6.9	mg/kg	J
J08-SS03-1-S	0.25-0.5	7/11/94	6010	Barium	73	mg/kg	
J08-SS03-1-S	0.25-0.5	7/11/94	6010	Cadmium	0.73	mg/kg	
J08-SS03-1-S	0.25-0.5	7/11/94	6010	Chromium	3	mg/kg	J
J08-SS03-1-S	0.25-0.5	7/11/94	6010	Lead	5.4	mg/kg	J
J08-SS03-1-S	0.25-0.5	7/11/94	6010	Selenium	< 5	mg/kg	

Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J08-SS03-1-S	0.25-0.5	7/11/94	6010	Silver	< 0.9	mg/kg	
J08-SS03-1-S	0.25-0.5	7/11/94	7471	Mercury	< 0.04	mg/kg	
J08-SS03-1-S	0.25-1.0	7/11/94	8015M	TPH (as diesel)	< 1	mg/kg	
J08-SS03-1-S	0.25-1.0	7/11/94	D2216	Moisture/TNFR	1.6	percent	
J08-SS03-1-S	0.25-0.5	7/11/94	D4031	Immunoassay BTEX	2< X <10	mg/kg	
J08-SS03-1-SD (DP045	0.25-0.5	7/11/94	6010	Arsenic	10	mg/kg	J
J08-SS03-1-SD (DP045	0.25-0.5	7/11/94	6010	Barium	86	mg/kg	
J08-SS03-1-SD (DP045	0.25-0.5	7/11/94	6010	Cadmium	1	mg/kg	
J08-SS03-1-SD (DP045	0.25-0.5	7/11/94	6010	Chromium	4.4	mg/kg	J
J08-SS03-1-SD (DP045	0.25-0.5	7/11/94	6010	Lead	5.4	mg/kg	J
J08-SS03-1-SD (DP045	0.25-0.5	7/11/94	6010	Selenium	< 5	mg/kg	
J08-SS03-1-SD (DP045	0.25-0.5	7/11/94	6010	Silver	< 0.9	mg/kg	
J08-SS03-1-SD (DP045	0.25-0.5	7/11/94	7471	Mercury	< 0.04	mg/kg	
J08-SS03-1-SD (DP048	0.25-1.0	7/11/94	8015M	TPH (as diesel)	< 1	mg/kg	
J08-SS03-1-SD (DP049	0.25-1.0	7/11/94	8015M	TPH (as diesel)	0	mg/kg	
J08-SS03-1-SD (DP047	0.25-0.5	7/11/94	8260	1,1,1,2-Tetrachloroethane	< 0.4	ug/kg	
J08-SS03-1-SD (DP047	0.25-0.5	7/11/94	8260	1,1,1-Trichloroethane	< 0.6	ug/kg	
J08-SS03-1-SD (DP047	0.25-0.5	7/11/94	8260	1,1,2,2-Tetrachloroethane	< 0.2	ug/kg	
J08-SS03-1-SD (DP047	0.25-0.5	7/11/94	8260	1,1,2-Trichloroethane	< 0.4	ug/kg	
J08-SS03-1-SD (DP047	0.25-0.5	7/11/94	8260	1,1-Dichloroethane	< 0.2	ug/kg	
J08-SS03-1-SD (DP047	0.25-0.5	7/11/94	8260	1,1-Dichloroethene	< 0.2	ug/kg	
J08-SS03-1-SD (DP047	0.25-0.5	7/11/94	8260	1,2,3-Trichloropropane	< 0.8	ug/kg	
J08-SS03-1-SD (DP047	0.25-0.5	7/11/94	8260	1,2-Dichlorobenzene	< 0.2	ug/kg	
J08-SS03-1-SD (DP047	0.25-0.5	7/11/94	8260	1,2-Dichloroethane	< 0.6	ug/kg	
J08-SS03-1-SD (DP047	0.25-0.5	7/11/94	8260	1,2-Dichloropropane	< 0.8	ug/kg	
J08-SS03-1-SD (DP047	0.25-0.5	7/11/94	8260	1,3-Dichlorobenzene	< 0.2	ug/kg	
J08-SS03-1-SD (DP047	0.25-0.5	7/11/94	8260	1,4-Dichlorobenzene	< 0.4	ug/kg	
J08-SS03-1-SD (DP047	0.25-0.5	7/11/94	8260	2-Chloroethylvinylether	< 0.6	ug/kg	
J08-SS03-1-SD (DP047	0.25-0.5	7/11/94	8260	Benzene	< 0.2	ug/kg	
J08-SS03-1-SD (DP047	0.25-0.5	7/11/94	8260	Benzyl chloride	< 0.6	ug/kg	
J08-SS03-1-SD (DP047	0.25-0.5	7/11/94	8260	Bromobenzene	< 0.4	ug/kg	
J08-SS03-1-SD (DP047	0.25-0.5	7/11/94	8260	Bromodichloromethane	< 0.2	ug/kg	
J08-SS03-1-SD (DP047	0.25-0.5	7/11/94	8260	Bromoform	< 0.2	ug/kg	
J08-SS03-1-SD (DP047	0.25-0.5	7/11/94	8260	Bromomethane	< 0.2	ug/kg	
J08-SS03-1-SD (DP047	0.25-0.5	7/11/94	8260	Carbon Tetrachloride	< 0.6	ug/kg	
J08-SS03-1-SD (DP047	0.25-0.5	7/11/94	8260	Chlorobenzene	< 0.2	ug/kg	
J08-SS03-1-SD (DP047	0.25-0.5	7/11/94	8260	Chloroethane	< 0.2	ug/kg	
J08-SS03-1-SD (DP047	0.25-0.5	7/11/94	8260	Chloroform	< 0.2	ug/kg	
J08-SS03-1-SD (DP047	0.25-0.5	7/11/94	8260	Chloromethane	< 0.6	ug/kg	
J08-SS03-1-SD (DP047	0.25-0.5	7/11/94	8260	cis-1,3-Dichloropropene	< 0.2	ug/kg	
J08-SS03-1-SD (DP047	0.25-0.5	7/11/94	8260	Dibromochloromethane	< 0.6	ug/kg	
J08-SS03-1-SD (DP047	0.25-0.5	7/11/94	8260	Dibromomethane	< 0.2	ug/kg	
J08-SS03-1-SD (DP047	0.25-0.5	7/11/94	8260	Dichlorodifluoromethane	< 0.1	ug/kg	
J08-SS03-1-SD (DP047	0.25-0.5	7/11/94	8260	Ethylbenzene	< 0.2	ug/kg	
J08-SS03-1-SD (DP047	0.25-0.5	7/11/94	8260	Methylene chloride	< 0.4	ug/kg	

Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J08-SS03-1-SD (DP047	0.25-0.5	7/11/94	8260	Tetrachloroethene	< 0.6	ug/kg	
J08-SS03-1-SD (DP047	0.25-0.5	7/11/94	8260	Toluene	< 0.4	ug/kg	
J08-SS03-1-SD (DP047	0.25-0.5	7/11/94	8260	Total Xylene Isomers	< 0.6	ug/kg	
J08-SS03-1-SD (DP047	0.25-0.5	7/11/94	8260	trans-1,2-Dichloroethene	< 0.2	ug/kg	
J08-SS03-1-SD (DP047	0.25-0.5	7/11/94	8260	trans-1,3-Dichloropropene	< 0.2	ug/kg	
J08-SS03-1-SD (DP047	0.25-0.5	7/11/94	8260	Trichloroethene	< 1	ug/kg	
J08-SS03-1-SD (DP047	0.25-0.5	7/11/94	8260	Trichlorofluoromethane	< 0.1	ug/kg	
J08-SS03-1-SD (DP047	0.25-0.5	7/11/94	8260	Vinyl chloride	< 0.2	ug/kg	
J08-SS03-1-SD (DP047	0.25-0.5	7/11/94	D2216	Moisture/TNFR	2.3	percent	
J08-SS03-1-SD (DP045	0.25-0.5	7/11/94	D2216	Moisture/TNFR	1.4	percent	
J08-SS03-1-SD (DP046	0.25-0.5	7/11/94	D4031	Immunoassay BTEX	2< X <10	mg/kg	
J08-SS04-1-S	0.25-0.5	7/11/94	6010	Arsenic	5.9	mg/kg	J
J08-SS04-1-S	0.25-0.5	7/11/94	6010	Barium	67	mg/kg	
J08-SS04-1-S	0.25-0.5	7/11/94	6010	Cadmium	0.99	mg/kg	
J08-SS04-1-S	0.25-0.5	7/11/94	6010	Chromium	3.3	mg/kg	J
J08-SS04-1-S	0.25-0.5	7/11/94	6010	Lead	5.8	mg/kg	J
J08-SS04-1-S	0.25-0.5	7/11/94	6010	Selenium	< 5	mg/kg	
J08-SS04-1-S	0.25-0.5	7/11/94	6010	Silver	< 0.9	mg/kg	
J08-SS04-1-S	0.25-0.5	7/11/94	7471	Mercury	< 0.04	mg/kg	
J08-SS04-1-S	0.25-0.5	7/11/94	8015M	TPH (as diesel)	< 1	mg/kg	
J08-SS04-1-S	0.25-0.5	7/11/94	D2216	Moisture/TNFR	1.4	percent	
J08-SS04-1-S	0.25-0.5	7/11/94	D4031	Immunoassay BTEX	2< X <10	mg/kg	
J08-SS05-1-S	0.25-0.5	7/11/94	6010	Arsenic	11	mg/kg	J
J08-SS05-1-S	0.25-0.5	7/11/94	6010	Barium	120	mg/kg	
J08-SS05-1-S	0.25-0.5	7/11/94	6010	Cadmium	1.1	mg/kg	
J08-SS05-1-S	0.25-0.5	7/11/94	6010	Chromium	4.3	mg/kg	J
J08-SS05-1-S	0.25-0.5	7/11/94	6010	Lead	6.5	mg/kg	J
J08-SS05-1-S	0.25-0.5	7/11/94	6010	Selenium	< 5	mg/kg	
J08-SS05-1-S	0.25-0.5	7/11/94	6010	Silver	< 0.9	mg/kg	
J08-SS05-1-S	0.25-0.5	7/11/94	7471	Mercury	< 0.04	mg/kg	
J08-SS05-1-S	0.25-0.5	7/11/94	8015M	TPH (as diesel)	1.5	mg/kg	J
J08-SS05-1-S	0.25-0.5	7/11/94	D2216	Moisture/TNFR	1.9	percent	
J08-SS05-1-S	0.25-0.5	7/11/94	D4031	Immunoassay BTEX	2< X <10	mg/kg	
J08-SS06-1-S	0.25-0.5	7/11/94	6010	Arsenic	8.4	mg/kg	J
J08-SS06-1-S	0.25-0.5	7/11/94	6010	Barium	79	mg/kg	
J08-SS06-1-S	0.25-0.5	7/11/94	6010	Cadmium	1.2	mg/kg	
J08-SS06-1-S	0.25-0.5	7/11/94	6010	Chromium	3.3	mg/kg	J
J08-SS06-1-S	0.25-0.5	7/11/94	6010	Lead	7.5	mg/kg	J
J08-SS06-1-S	0.25-0.5	7/11/94	6010	Selenium	< 5	mg/kg	
J08-SS06-1-S	0.25-0.5	7/11/94	6010	Silver	< 0.9	mg/kg	
J08-SS06-1-S	0.25-0.5	7/11/94	7471	Mercury	< 0.04	mg/kg	
J08-SS06-1-S	0.25-0.5	7/11/94	8015M	TPH (as diesel)	< 1	mg/kg	

Summary Table of Analytical Data

SWMU J08 - Dock 4/Landfill

Hawthorne Army Depot

Hawthorne, Nevada

January 1996

FINAL

FINAL

Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J08-SS06-1-S	0.25-0.5	7/11/94	D2216	Moisture/TNFR	0.69	percent	
J08-SS06-1-S	0.25-0.5	7/11/94	D4031	Immunoassay BTEX	2< X <10	mg/kg	
J08-SS07-1-S	0.25-0.5	7/11/94	6010	Arsenic	6.9	mg/kg	J
J08-SS07-1-S	0.25-0.5	7/11/94	6010	Barium	80	mg/kg	
J08-SS07-1-S	0.25-0.5	7/11/94	6010	Cadmium	0.85	mg/kg	
J08-SS07-1-S	0.25-0.5	7/11/94	6010	Chromium	3.2	mg/kg	J
J08-SS07-1-S	0.25-0.5	7/11/94	6010	Lead	< 5	mg/kg	
J08-SS07-1-S	0.25-0.5	7/11/94	6010	Selenium	< 5	mg/kg	
J08-SS07-1-S	0.25-0.5	7/11/94	6010	Silver	< 0.9	mg/kg	
J08-SS07-1-S	0.25-0.5	7/11/94	7471	Mercury	< 0.04	mg/kg	
J08-SS07-1-S	0.25-0.5	7/11/94	8015M	TPH (as diesel)	< 1	mg/kg	
J08-SS07-1-S	0.25-0.5	7/11/94	D2216	Moisture/TNFR	2.7	percent	
J08-SS07-1-S	0.25-0.5	7/11/94	D4031	Immunoassay BTEX	2< X <10	mg/kg	
J08-SS08-1-S	0.25-0.5	7/11/94	6010	Arsenic	13	mg/kg	J
J08-SS08-1-S	0.25-0.5	7/11/94	6010	Barium	110	mg/kg	
J08-SS08-1-S	0.25-0.5	7/11/94	6010	Cadmium	1.3	mg/kg	
J08-SS08-1-S	0.25-0.5	7/11/94	6010	Chromium	5.2	mg/kg	
J08-SS08-1-S	0.25-0.5	7/11/94	6010	Lead	7.3	mg/kg	J
J08-SS08-1-S	0.25-0.5	7/11/94	6010	Selenium	< 5	mg/kg	
J08-SS08-1-S	0.25-0.5	7/11/94	6010	Silver	< 0.9	mg/kg	
J08-SS08-1-S	0.25-0.5	7/11/94	7471	Mercury	< 0.04	mg/kg	
J08-SS08-1-S	0.25-0.5	7/11/94	8015M	TPH (as diesel)	< 1	mg/kg	
J08-SS08-1-S	0.25-0.5	7/11/94	D2216	Moisture/TNFR	2	percent	
J08-SS08-1-S	0.25-0.5	7/11/94	D4031	Immunoassay BTEX	2< X <10	mg/kg	
J08-SS09-1-S	0.25-0.5	7/9/94	6010	Arsenic	6.5	mg/kg	J
J08-SS09-1-S	0.25-0.5	7/9/94	6010	Barium	89	mg/kg	
J08-SS09-1-S	0.25-0.5	7/9/94	6010	Cadmium	1.1	mg/kg	
J08-SS09-1-S	0.25-0.5	7/9/94	6010	Chromium	4.3	mg/kg	J
J08-SS09-1-S	0.25-0.5	7/9/94	6010	Lead	6.7	mg/kg	J
J08-SS09-1-S	0.25-0.5	7/9/94	6010	Selenium	< 5	mg/kg	
J08-SS09-1-S	0.25-0.5	7/9/94	6010	Silver	< 0.9	mg/kg	
J08-SS09-1-S	0.25-0.5	7/9/94	7471	Mercury	< 0.04	mg/kg	
J08-SS09-1-S	0.25-0.5	7/9/94	8015M	TPH (as diesel)	< 1	mg/kg	
J08-SS09-1-S	0.25-0.5	7/9/94	D2216	Moisture/TNFR	0.97	percent	
J08-SS09-1-S	0.25-0.5	7/9/94	D4031	Immunoassay BTEX	2< X <10	mg/kg	
J08-SS10-1-S	0.25-0.5	7/9/94	6010	Arsenic	10	mg/kg	J
J08-SS10-1-S	0.25-0.5	7/9/94	6010	Barium	67	mg/kg	
J08-SS10-1-S	0.25-0.5	7/9/94	6010	Cadmium	0.43	mg/kg	J
J08-SS10-1-S	0.25-0.5	7/9/94	6010	Chromium	2.9	mg/kg	J
J08-SS10-1-S	0.25-0.5	7/9/94	6010	Lead	< 5	mg/kg	
J08-SS10-1-S	0.25-0.5	7/9/94	6010	Selenium	< 5	mg/kg	

Summary Table of Analytical Data

SWMU J08 - Dock 4/Landfill

Hawthorne Army Depot

Hawthorne, Nevada

January 1996

FINAL

FINAL

Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J08-SS10-1-S	0.25-0.5	7/9/94	6010	Silver	< 0.9	mg/kg	
J08-SS10-1-S	0.25-0.5	7/9/94	7471	Mercury	< 0.04	mg/kg	
J08-SS10-1-S	0.25-0.5	7/9/94	8015M	TPH (as diesel)	< 1	mg/kg	
J08-SS10-1-S	0.25-0.5	7/9/94	D2216	Moisture/TNFR	1.5	percent	
J08-SS10-1-S	0.25-0.5	7/9/94	D4031	Immunoassay BTEX	2< X <10	mg/kg	

Appendix C

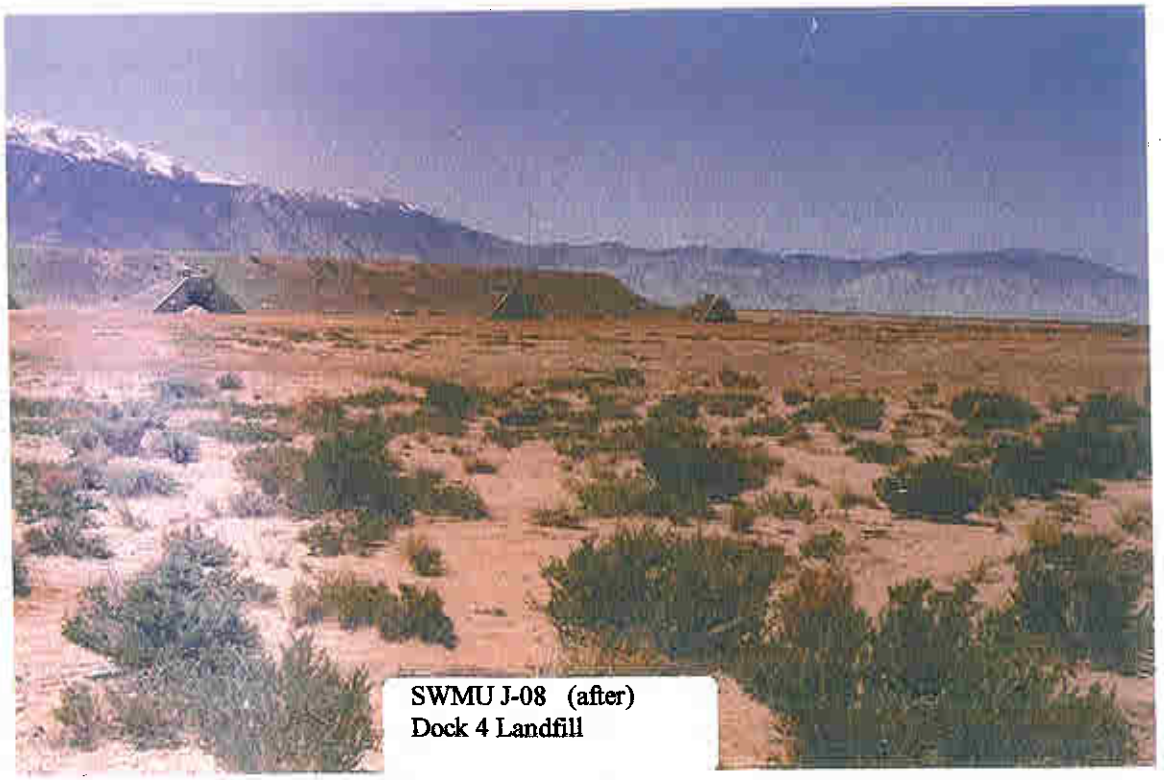
Survey Data at SWMU J-08
Hawthorne Army Depot
Hawthorne, Nevada

Point Name	Northing	Easting
TEMPMON08	510599.74	1366435.58
TEMPMON09	510175.31	1367677.96
TEMPMON10	509746.56	1366401.71
SB-1	510477.44	1366905.45
SB-2	510261.24	1367325.24
SB-3	510365.24	1366997.19
SG-1	510488.73	1366606.87
SG-10	510288.39	1367471.64
SG-2	510672.37	1366761.34
SG-3	510456.01	1366833.72
SG-4	510457.42	1366937.51
SG-5	510286.57	1366980.03
SG-6	510346.9	1367094.05
SG-7	510447.03	1367173.45
SG-8	510455.28	1367278.35
SG-9	510225.19	1367272.02
SS-1	510214.89	1367379.87
SS-10	510482.73	1366517.59
SS-2	510376.23	1367383.87
SS-3	510253.56	1367220.01
SS-4	510255.64	1367051.39
SS-5	510448.79	1367036.53
SS-6	510326.09	1366920.34
SS-7	510541.05	1366878.36
SS-8	510454.31	1366819.15
SS-9	510568.78	1366768.56

Footnote: Survey data in Nevada State Plane West, 1927 coordinates.

Appendix D

SWMU J-08 (before)
Dock 4 Landfill



SWMU J-08 (after)
Dock 4 Landfill