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DECISION DOCUMENT
108-20b Ethylene Oxide Spill Impoundment, SWMU B-28b
Hawthorne Army Depot
Hawthorne, Nevada
October 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) B-28b, 108-20b Ethylene Oxide Spill Impoundment at the Hawthorne Army Depot (HWAD), Hawthorne, Nevada. This decision document was developed by the U.S. Army Corps of Engineers, Sacramento District (USACE), 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 B-28b is a hypalon-lined surface impoundment, approximately 40 square feet and 3 feet to 4 feet deep, designed to contain spills of propylene oxide from Building 108-20.

The impoundment was never used. It is constructed outside of a reconstructed portion of Building 108-20 that was destroyed in 1967 by an accidental explosion. At that time, the building was used for the breakdown of rockets and other munitions. Building renovation was completed in 1979, at which time the building function was changed to handling fuel-air explosives. A deluge fire control system was installed and was reportedly activated on several occasions. Propylene oxide was never used in the building (T. Erickson, 1 September 1993 personal communication).

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 personnel performed a visual inspection of the site in November 1993. A small amount of sand was present inside the impoundment, but the impoundment was otherwise dry. A discharge pipe entered the impoundment from Building 108-20.

The depth to ground water in this area was estimated to be about 60 feet to 70 feet below the ground surface, about the same as at SWMU B28a. The static ground water elevation measured in base supply well No. 7, located about 700 feet east of the site, was 4,071 feet above msl in 1974 (Van Denburgh and Rush, 1975). The land surface elevation at the site is about 4,120 feet above msl.

Tetra Tech conducted a basewide ground water level survey in March, 1994. Based on this survey, ground water at SWMU B-28b was estimated at a depth of 60 feet. (4,060 above msl).

1.3 Chemicals of Concern

The chemicals of concern at SWMU B-28b are listed in Table 1.

TABLE 1 - SUMMARY OF CHEMICALS OF CONCERN

Chemicals of Concern	Rationale Behind Designation	Reference
Explosives	Possible disposal of explosives	T. Erickson, 1993
Volatile Organic Compounds	Possible disposal of ethylene oxide	T. Erickson, 1993

2. SUMMARY of SITE RISK

No VOCs were detected in the soil gas sample locations at a depth of 5 feet. Near surface and subsurface samples analyzed for explosives had no detections above the laboratory method detection limits for explosives. Volatile organic compounds (VOC) analytical results for two samples detected concentrations of methylene chloride up to 33 μg/kg. These analytes were also detected in the trip blank associated with this sampling event, and therefore are not related to, or indicative of, contamination at the SWMU.

3. SUMMARY of REMEDIAL INVESTIGATIONS and REMEDIAL ACTIONS

3.1 Remedial Investigations

3.1.1 Objectives

The objective of the investigation at SWMU B-28b was:

To determine the presence of ethylene oxide, volatile organic compounds and explosives in the near 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 B-28b-2 shows the location of the actual field investigation activities at SWMU B-28b. A permanent monument was installed and surveyed and the SWMU boundaries delineated at the locations shown on this figure. The appendices in this report include HWAD proposed closure goals for soils, detection limits for the lab 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
Geophysics - Line locator	**Geophysics** - Line locator	
Soil Gas Survey - 20 locations at impoundment and discharge line location	**Soil Gas Survey** - 10 locations at impoundment and discharge line location	Based upon ND results of first 10 samples, remaining 10 samples were not taken.
Near Surface Sampling - Soil samples at 3 locations inside impoundment, 1 sample per location	**Near Surface Sampling** - Soil samples at 3 locations inside impoundment, 1 to 2 samples per location	One sample taken above liner.
Subsurface Sampling - CPT[a] sounding at 1 location to 25 ft. CPT sampling at 3 locations to 25 ft, 4 samples per location	**Subsurface Sampling** - CPT sounding at 1 location to 21 ft, CPT sampling at 2 locations to 20 ft, 3 samples per location	Auger refusal at lower depths. Two sample locations appeared adequate to evaluate impoundment.
Surveying - GPS[b] at line locator, soil gas, near surface and CPT sample locations	**Surveying** - GPS at line locator, soil gas, near surface and CPT sample locations	

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

Soil samples taken and analyses performed were as follows:

Sample Location	Depth (ft)	VOCs	Explosives
Near Surface Samples			
SS01(R)	1	N	Y
SS02(R)	1	N	Y
SS03	0, 1	N	Y
Subsurface Samples			
SB01	5, 14, 18	Y	Y
SB02	4, 14, 16	Y	Y

(R) = Resampled

3.1.3 Results

Line locating survey confirmed the location of an underground pipeline from Building 108-20 to the impoundment.

Table 3 lists analytical results for volatile organic compounds (VOCs) and benzene, toluene, ethylbenzene, and xylenes (BTEX) for the soil gas survey.

TABLE 3 - SUMMARY OF SOIL GAS SURVEY ANALYTICAL RESULTS

Sample Number	Sampled Date	Sample Depth (ft)	VOCs (ug/L) EPA Method 8010-M	BTEX (ug/L) EPA Method 8020-M
Near Surface Sampling				
B28b-SG-01	23-Jun-94	5.0	ND	ND[a]
B28b-SG-02	23-Jun-94	5.0	ND	ND
B28b-SG-03	23-Jun-94	5.0	ND	ND
B28b-SG-04	23-Jun-94	5.0	ND	ND
B28b-SG-05	23-Jun-94	5.0	ND	ND
B28b-SG-06	23-Jun-94	5.0	ND	ND
B28b-SG-07	23-Jun-94	5.0	ND	ND
B28b-SG-08	23-Jun-94	5.0	ND	ND
B28b-SG-09	23-Jun-94	5.0	ND	ND
B28b-SG-10	23-Jun-94	5.0	ND	ND

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

Table 4 lists VOC analytical results for subsurface sampling.

TABLE 4 - SUMMARY OF VOCs ANALYTICAL RESULTS

Sample Number	Sampled Date	Sample Depth (ft)	VOCs (mg/kg) EPA Method 8260
Subsurface Sampling			
B28b-SB01-1-S	20-Aug-94	4.75 - 5.0	ND[a]
B28b-SB01-2-S	20-Aug-94	14.25 - 14.50	ND
B28b-SB01-3-S	20-Aug-94	18.75 - 19.0	ND
B28b-SB02-1-S	20-Aug-94	5.50 - 5.75	ND
B28b-SB02-2-S	20-Aug-94	14.25 - 14.50	3.3 methylene chloride
B28b-SB02-3-S	20-Aug-94	16.75 - 17.0	3.2 methylene chloride

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

Table 5 lists analytical results for explosives for the near surface and subsurface sampling.

TABLE 5 - SUMMARY OF EXPLOSIVES ANALYTICAL RESULTS

Sample Number	Sampled Date	Sample Depth (ft)	Explosives (ug/kg) EPA Methods 8090-M or 8330
Near Surface Sampling			
B28b-SS01-1R-S (resample)	15-Jul-94	1.0 - 1.25	ND*
B28b-SS02-1R-S (resample)	15-Jul-94	1.0 - 1.25	ND
B28b-SS03-0-S	9-Jul-94	0.0 - 0.25	ND
B28b-SS03-1-S	9-Jul-94	1.0 - 1.25	ND
Subsurface Sampling			
B28b-SB01-1-S	20-Aug-94	4.50 - 4.75	ND
B28b-SB01-2-S	20-Aug-94	14.0 - 14.25	ND
B28b-SB01-3-S	20-Aug-94	18.25 - 18.50	ND
B28b-SB02-1-S	20-Aug-94	4.25 - 4.50	ND
B28b-SB02-2-S	20-Aug-94	14.0 - 14.25	ND
B28b-SB02-3-S	20-Aug-94	16.25 - 16.50	ND

*ND = Below laboratory method detection limit for all analytes

3.2 Remedial Actions

3.2.1 Summary of Remedial Alternatives

This impoundment will continue to serve as containment for water in the event that the fire deluge system in Building 108-20 is activated. Therefore, the impoundment was left in its current state.

3.2.2 Summary of Remedial Actions

This impoundment was left in its current state to serve as containment for the above-mentioned fire deluge system. A photograph of this site's current condition is included at Appendix D.

4. PUBLIC/COMMUNITY INVOLVEMENT

It is U.S. Department of Defense 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

The HWAD proposed closure goals for all analytes are listed in Appendix A. These closure goals were used in evaluating the detected chemicals.

No VOCs were detected in the soil gas sample locations at a depth of 5 feet. Near surface and subsurface samples analyzed for explosives had no detections above the laboratory method detection limits for explosives. VOC analytical results for two samples reflect concentrations of methylene chloride up to 33 µg/kg. These analytes were also detected in the trip blank associated with this sampling event, and, therefore, are not related to, or indicative of, contamination at the SWMU.

It is recommended that no further investigation be performed at this SWMU and that the site be closed with regard to the 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

25 OCT 1999
Date

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

STATE OF NEVADA

22 Nov. 1999
Date

Paul Liebendorfer
Chief, Bureau of Federal Facilities

REFERENCES

Erickson, T. September 1, 1993, Personal Communication (information to T. Whitehead). Day & Zimmerman/Basil, Hawthorne, Nevada.

Jacobs Engineering. 1988. Facility Assessment, Hawthorne Army Ammunition Plant, TES IV Work Assignment No. 419.

RAI. 1992. Site Screening Inspection (SSI) for the Hawthorne Army Ammunition Plant, Hawthorne, NV. Prepared for the U.S. Army Corps of Engineers Toxic and Hazardous Materials Agency by Resource Applications, Inc., Falls Church, VA. December, 1992. Contract No. DAAA 15-90-D-003, Task 5.

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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.

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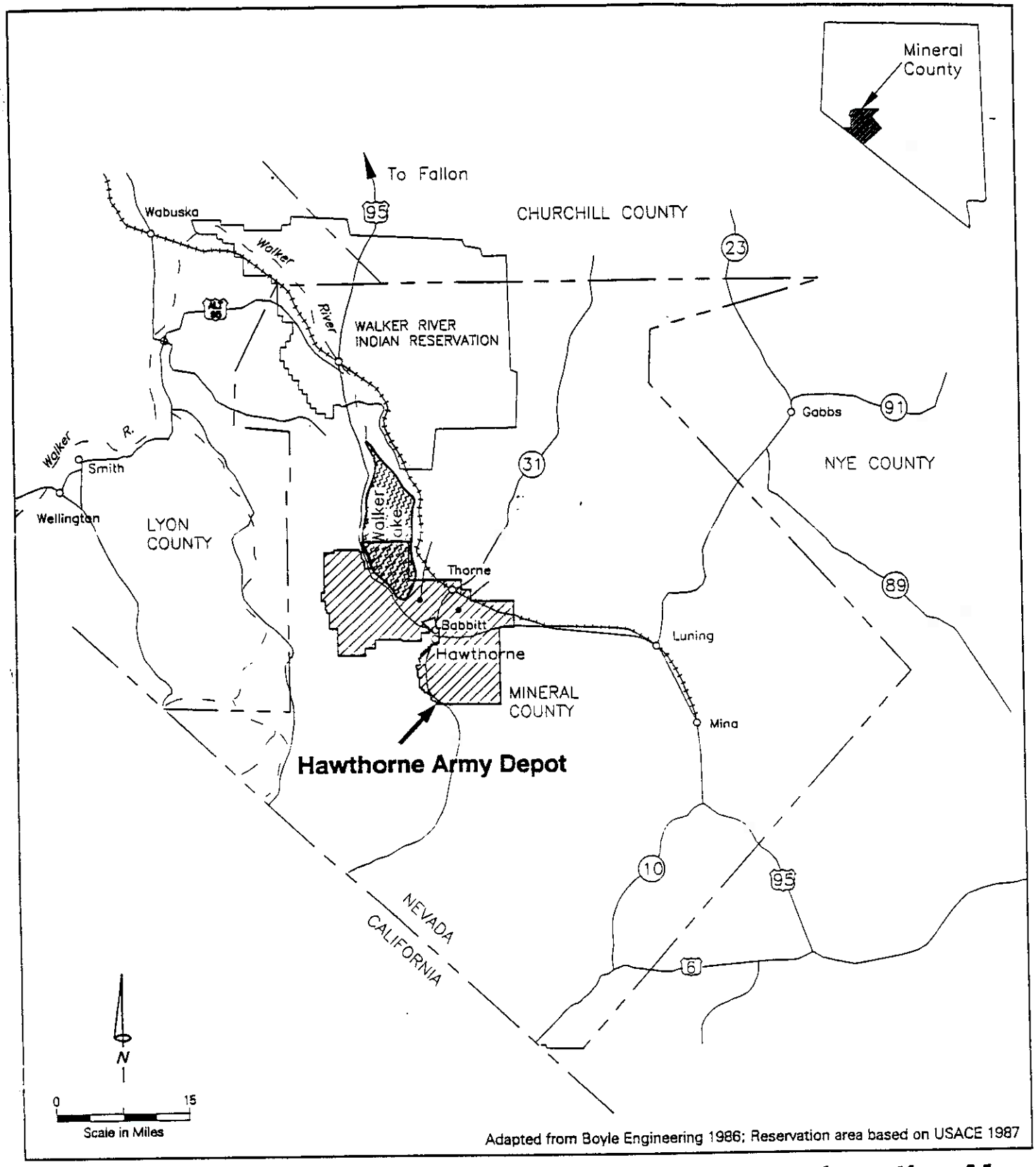
SWMU J-09 Dock 5 Landfill, SWMU J-10 Dock 6 Landfill, SWMU J-13 WADF South Dump, SWMU J-17 Thorne Drum Area, SWMU J-21 Bldg 97 Old Dock Area, SWMU J-22 50 Group Pits, SWMU J-24 Trench near 50-60.

Figures



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

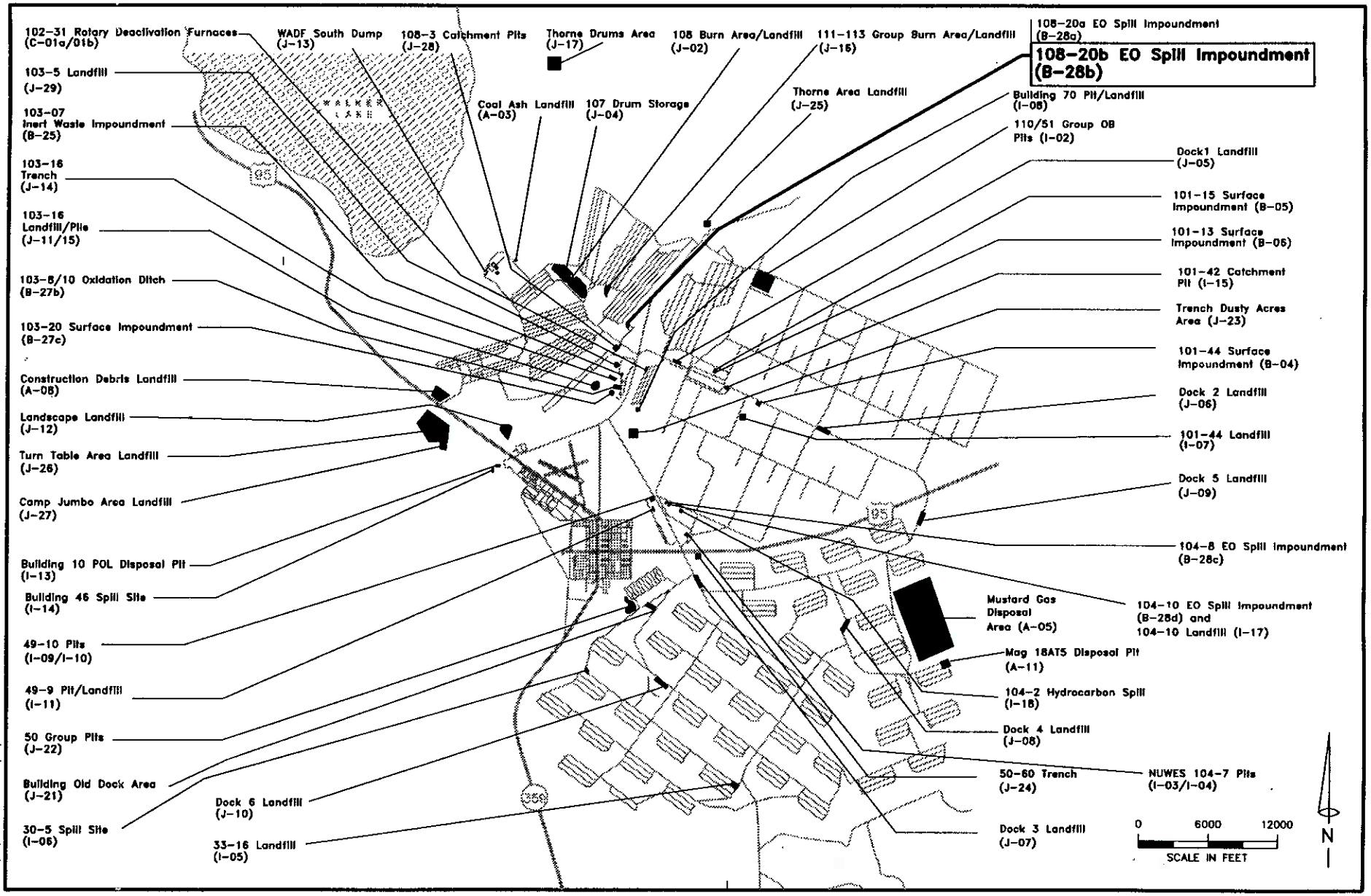
Location Map

Legend

Hawthorne Army Depot

Hawthorne Army Depot
Hawthorne, Nevada

Tetra Tech, Inc.



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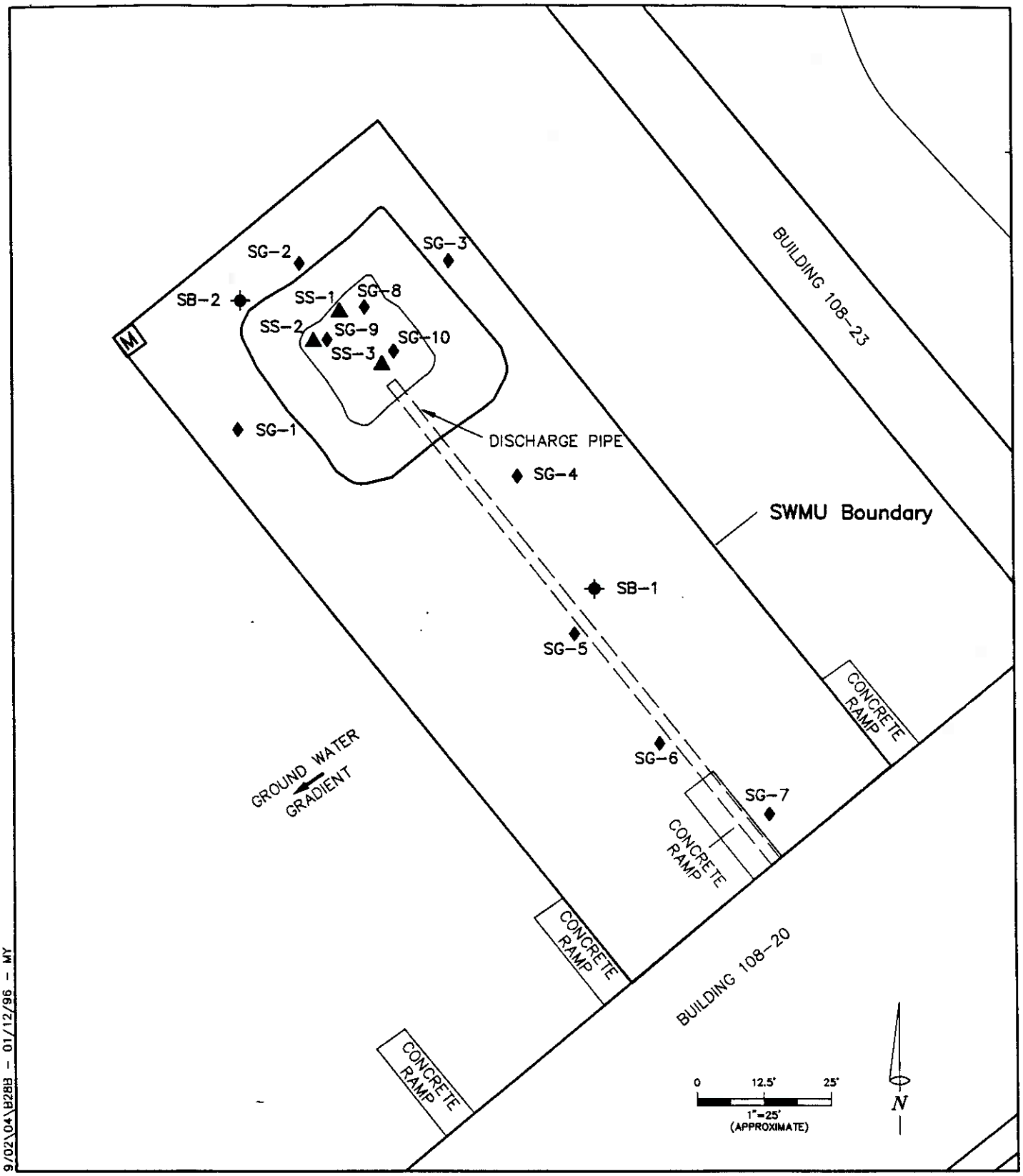
Location Map
Hawthorne Army Depot

Hawthorne, Nevada

Figure SWMU-B-28b-1



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LEGEND:

- ◆ SG-X Soil gas sample location and number
- ▲ SS-X Surface sample location and number
- ✦ SB-X Soil boring location and number
- M Monument location

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Activity Map
SWMU B-28b
108-20b Spill Impoundment

Hawthorne Army Depot
Hawthorne, Nevada

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

Figure B-28b-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 B28b - 108-20 EO Spill Impoundment

Hawthorne Army Depot

Hawthorne, Nevada

January 1996

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FINAL

Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
B28b-SB01-1-S	4.5-4.75	8/20/94	8090M	1,3,5-Trinitrobenzene	< 500	ug/kg	UJ-
B28b-SB01-1-S	4.5-4.75	8/20/94	8090M	1,3-Dinitrobenzene	< 250	ug/kg	UJ-
B28b-SB01-1-S	4.5-4.75	8/20/94	8090M	2,4,6-Trinitrotoluene	< 250	ug/kg	
B28b-SB01-1-S	4.5-4.75	8/20/94	8090M	2,4-Dinitrotoluene	< 250	ug/kg	
B28b-SB01-1-S	4.5-4.75	8/20/94	8090M	2,6-Dinitrotoluene	< 250	ug/kg	
B28b-SB01-1-S	4.5-4.75	8/20/94	8090M	2-Nitrotoluene	< 250	ug/kg	
B28b-SB01-1-S	4.5-4.75	8/20/94	8090M	3-Nitrotoluene	< 250	ug/kg	
B28b-SB01-1-S	4.5-4.75	8/20/94	8090M	4-Nitrotoluene	< 250	ug/kg	
B28b-SB01-1-S	4.5-4.75	8/20/94	8090M	Nitrobenzene	< 250	ug/kg	
B28b-SB01-1-S	4.5-4.75	8/20/94	8090M	RDX	< 50000	ug/kg	R
B28b-SB01-1-S	4.5-4.75	8/20/94	8090M	Tetryl	< 250	ug/kg	
B28b-SB01-1-S	4.75-5.0	8/20/94	8260	1,1,1,2-Tetrachloroethane	< 0.4	ug/kg	
B28b-SB01-1-S	4.75-5.0	8/20/94	8260	1,1,1-Trichloroethane	< 0.6	ug/kg	
B28b-SB01-1-S	4.75-5.0	8/20/94	8260	1,1,2,2-Tetrachloroethane	< 0.2	ug/kg	
B28b-SB01-1-S	4.75-5.0	8/20/94	8260	1,1,2-Trichloroethane	< 0.4	ug/kg	
B28b-SB01-1-S	4.75-5.0	8/20/94	8260	1,1-Dichloroethane	< 0.2	ug/kg	
B28b-SB01-1-S	4.75-5.0	8/20/94	8260	1,1-Dichloroethene	< 0.2	ug/kg	
B28b-SB01-1-S	4.75-5.0	8/20/94	8260	1,2,3-Trichloropropane	< 0.8	ug/kg	
B28b-SB01-1-S	4.75-5.0	8/20/94	8260	1,2-Dichlorobenzene	< 0.2	ug/kg	
B28b-SB01-1-S	4.75-5.0	8/20/94	8260	1,2-Dichloroethane	< 0.6	ug/kg	
B28b-SB01-1-S	4.75-5.0	8/20/94	8260	1,2-Dichloropropane	< 0.8	ug/kg	
B28b-SB01-1-S	4.75-5.0	8/20/94	8260	1,3-Dichlorobenzene	< 0.2	ug/kg	
B28b-SB01-1-S	4.75-5.0	8/20/94	8260	1,4-Dichlorobenzene	< 0.4	ug/kg	
B28b-SB01-1-S	4.75-5.0	8/20/94	8260	Benzene	< 0.2	ug/kg	
B28b-SB01-1-S	4.75-5.0	8/20/94	8260	Bromobenzene	< 0.4	ug/kg	
B28b-SB01-1-S	4.75-5.0	8/20/94	8260	Bromodichloromethane	< 0.2	ug/kg	
B28b-SB01-1-S	4.75-5.0	8/20/94	8260	Bromoform	< 0.2	ug/kg	
B28b-SB01-1-S	4.75-5.0	8/20/94	8260	Bromomethane	< 0.2	ug/kg	
B28b-SB01-1-S	4.75-5.0	8/20/94	8260	Carbon Tetrachloride	< 0.6	ug/kg	
B28b-SB01-1-S	4.75-5.0	8/20/94	8260	Chlorobenzene	< 0.2	ug/kg	
B28b-SB01-1-S	4.75-5.0	8/20/94	8260	Chloroethane	< 0.2	ug/kg	
B28b-SB01-1-S	4.75-5.0	8/20/94	8260	Chloroform	< 0.2	ug/kg	
B28b-SB01-1-S	4.75-5.0	8/20/94	8260	Chloromethane	< 0.6	ug/kg	
B28b-SB01-1-S	4.75-5.0	8/20/94	8260	cis-1,3-Dichloropropene	< 0.2	ug/kg	
B28b-SB01-1-S	4.75-5.0	8/20/94	8260	Dibromochloromethane	< 0.6	ug/kg	
B28b-SB01-1-S	4.75-5.0	8/20/94	8260	Dibromomethane	< 0.2	ug/kg	
B28b-SB01-1-S	4.75-5.0	8/20/94	8260	Dichlorodifluoromethane	< 0.1	ug/kg	
B28b-SB01-1-S	4.75-5.0	8/20/94	8260	Ethylbenzene	< 0.2	ug/kg	
B28b-SB01-1-S	4.75-5.0	8/20/94	8260	Methylene chloride	< 0.4	ug/kg	
B28b-SB01-1-S	4.75-5.0	8/20/94	8260	Tetrachloroethene	< 0.6	ug/kg	
B28b-SB01-1-S	4.75-5.0	8/20/94	8260	Toluene	< 0.4	ug/kg	
B28b-SB01-1-S	4.75-5.0	8/20/94	8260	Total Xylene Isomers	< 0.6	ug/kg	
B28b-SB01-1-S	4.75-5.0	8/20/94	8260	trans-1,2-Dichloroethene	< 0.2	ug/kg	
B28b-SB01-1-S	4.75-5.0	8/20/94	8260	trans-1,3-Dichloropropene	< 0.2	ug/kg	
B28b-SB01-1-S	4.75-5.0	8/20/94	8260	Trichloroethene	< 1	ug/kg	

Summary Table of Analytical Data

SWMU B28b - 108-20 EO Spill Impoundment

Hawthorne Army Depot

Hawthorne, Nevada

January 1996

FINAL

FINAL

Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
B28b-SB01-1-S	4.75-5.0	8/20/94	8260	Trichlorofluoromethane	< 0.1	ug/kg	
B28b-SB01-1-S	4.75-5.0	8/20/94	8260	Vinyl chloride	< 0.2	ug/kg	
B28b-SB01-1-S	4.5-4.75	8/20/94	D2216	Moisture/TNFR	0.9	percent	
B28b-SB01-2-S	14.0-14.25	8/20/94	8090M	1,3,5-Trinitrobenzene	< 500	ug/kg	UJ-
B28b-SB01-2-S	14.0-14.25	8/20/94	8090M	1,3-Dinitrobenzene	< 250	ug/kg	UJ-
B28b-SB01-2-S	14.0-14.25	8/20/94	8090M	2,4,6-Trinitrotoluene	< 250	ug/kg	
B28b-SB01-2-S	14.0-14.25	8/20/94	8090M	2,4-Dinitrotoluene	< 250	ug/kg	
B28b-SB01-2-S	14.0-14.25	8/20/94	8090M	2,6-Dinitrotoluene	< 250	ug/kg	
B28b-SB01-2-S	14.0-14.25	8/20/94	8090M	2-Nitrotoluene	< 250	ug/kg	
B28b-SB01-2-S	14.0-14.25	8/20/94	8090M	3-Nitrotoluene	< 250	ug/kg	
B28b-SB01-2-S	14.0-14.25	8/20/94	8090M	4-Nitrotoluene	< 250	ug/kg	
B28b-SB01-2-S	14.0-14.25	8/20/94	8090M	Nitrobenzene	< 250	ug/kg	
B28b-SB01-2-S	14.0-14.25	8/20/94	8090M	RDX	< 50000	ug/kg	R
B28b-SB01-2-S	14.0-14.25	8/20/94	8090M	Tetryl	< 250	ug/kg	
B28b-SB01-2-S	14.25-14.5	8/20/94	8260	1,1,1,2-Tetrachloroethane	< 0.4	ug/kg	
B28b-SB01-2-S	14.25-14.5	8/20/94	8260	1,1,1-Trichloroethane	< 0.6	ug/kg	
B28b-SB01-2-S	14.25-14.5	8/20/94	8260	1,1,2,2-Tetrachloroethane	< 0.2	ug/kg	
B28b-SB01-2-S	14.25-14.5	8/20/94	8260	1,1,2-Trichloroethane	< 0.4	ug/kg	
B28b-SB01-2-S	14.25-14.5	8/20/94	8260	1,1-Dichloroethane	< 0.2	ug/kg	
B28b-SB01-2-S	14.25-14.5	8/20/94	8260	1,1-Dichloroethene	< 0.2	ug/kg	
B28b-SB01-2-S	14.25-14.5	8/20/94	8260	1,2,3-Trichloropropane	< 0.8	ug/kg	
B28b-SB01-2-S	14.25-14.5	8/20/94	8260	1,2-Dichlorobenzene	< 0.2	ug/kg	
B28b-SB01-2-S	14.25-14.5	8/20/94	8260	1,2-Dichloroethane	< 0.6	ug/kg	
B28b-SB01-2-S	14.25-14.5	8/20/94	8260	1,2-Dichloropropane	< 0.8	ug/kg	
B28b-SB01-2-S	14.25-14.5	8/20/94	8260	1,3-Dichlorobenzene	< 0.2	ug/kg	
B28b-SB01-2-S	14.25-14.5	8/20/94	8260	1,4-Dichlorobenzene	< 0.4	ug/kg	
B28b-SB01-2-S	14.25-14.5	8/20/94	8260	Benzene	< 0.2	ug/kg	
B28b-SB01-2-S	14.25-14.5	8/20/94	8260	Bromobenzene	< 0.4	ug/kg	
B28b-SB01-2-S	14.25-14.5	8/20/94	8260	Bromodichloromethane	< 0.2	ug/kg	
B28b-SB01-2-S	14.25-14.5	8/20/94	8260	Bromoform	< 0.2	ug/kg	
B28b-SB01-2-S	14.25-14.5	8/20/94	8260	Bromomethane	< 0.2	ug/kg	
B28b-SB01-2-S	14.25-14.5	8/20/94	8260	Carbon Tetrachloride	< 0.6	ug/kg	
B28b-SB01-2-S	14.25-14.5	8/20/94	8260	Chlorobenzene	< 0.2	ug/kg	
B28b-SB01-2-S	14.25-14.5	8/20/94	8260	Chloroethane	< 0.2	ug/kg	
B28b-SB01-2-S	14.25-14.5	8/20/94	8260	Chloroform	< 0.2	ug/kg	
B28b-SB01-2-S	14.25-14.5	8/20/94	8260	Chloromethane	< 0.6	ug/kg	
B28b-SB01-2-S	14.25-14.5	8/20/94	8260	cis-1,3-Dichloropropene	< 0.2	ug/kg	
B28b-SB01-2-S	14.25-14.5	8/20/94	8260	Dibromochloromethane	< 0.6	ug/kg	
B28b-SB01-2-S	14.25-14.5	8/20/94	8260	Dibromomethane	< 0.2	ug/kg	
B28b-SB01-2-S	14.25-14.5	8/20/94	8260	Dichlorodifluoromethane	< 0.1	ug/kg	
B28b-SB01-2-S	14.25-14.5	8/20/94	8260	Ethylbenzene	< 0.2	ug/kg	
B28b-SB01-2-S	14.25-14.5	8/20/94	8260	Methylene chloride	< 0.4	ug/kg	
B28b-SB01-2-S	14.25-14.5	8/20/94	8260	Tetrachloroethene	< 0.6	ug/kg	
B28b-SB01-2-S	14.25-14.5	8/20/94	8260	Toluene	< 0.4	ug/kg	
B28b-SB01-2-S	14.25-14.5	8/20/94	8260	Total Xylene Isomers	< 0.6	ug/kg	

Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
B28b-SB01-2-S	14.25-14.5	8/20/94	8260	trans-1,2-Dichloroethene	< 0.2	ug/kg	
B28b-SB01-2-S	14.25-14.5	8/20/94	8260	trans-1,3-Dichloropropene	< 0.2	ug/kg	
B28b-SB01-2-S	14.25-14.5	8/20/94	8260	Trichloroethene	< 1	ug/kg	
B28b-SB01-2-S	14.25-14.5	8/20/94	8260	Trichlorofluoromethane	< 0.1	ug/kg	
B28b-SB01-2-S	14.25-14.5	8/20/94	8260	Vinyl chloride	< 0.2	ug/kg	
B28b-SB01-2-S	14.0-14.25	8/20/94	D2216	Moisture/TNFR	1.4	percent	
B28b-SB01-3-S	18.25-18.5	8/20/94	8090M	1,3,5-Trinitrobenzene	< 500	ug/kg	UJ-
B28b-SB01-3-S	18.25-18.5	8/20/94	8090M	1,3-Dinitrobenzene	< 250	ug/kg	UJ-
B28b-SB01-3-S	18.25-18.5	8/20/94	8090M	2,4,6-Trinitrotoluene	< 250	ug/kg	
B28b-SB01-3-S	18.25-18.5	8/20/94	8090M	2,4-Dinitrotoluene	< 250	ug/kg	
B28b-SB01-3-S	18.25-18.5	8/20/94	8090M	2,6-Dinitrotoluene	< 250	ug/kg	
B28b-SB01-3-S	18.25-18.5	8/20/94	8090M	2-Nitrotoluene	< 250	ug/kg	
B28b-SB01-3-S	18.25-18.5	8/20/94	8090M	3-Nitrotoluene	< 250	ug/kg	
B28b-SB01-3-S	18.25-18.5	8/20/94	8090M	4-Nitrotoluene	< 250	ug/kg	
B28b-SB01-3-S	18.25-18.5	8/20/94	8090M	Nitrobenzene	< 250	ug/kg	
B28b-SB01-3-S	18.25-18.5	8/20/94	8090M	RDX	< 50000	ug/kg	R
B28b-SB01-3-S	18.25-18.5	8/20/94	8090M	Tetryl	< 250	ug/kg	
B28b-SB01-3-S	18.75-19.0	8/20/94	8260	1,1,1,2-Tetrachloroethane	< 0.4	ug/kg	
B28b-SB01-3-S	18.75-19.0	8/20/94	8260	1,1,1-Trichloroethane	< 0.6	ug/kg	
B28b-SB01-3-S	18.75-19.0	8/20/94	8260	1,1,2,2-Tetrachloroethane	< 0.2	ug/kg	
B28b-SB01-3-S	18.75-19.0	8/20/94	8260	1,1,2-Trichloroethane	< 0.4	ug/kg	
B28b-SB01-3-S	18.75-19.0	8/20/94	8260	1,1-Dichloroethane	< 0.2	ug/kg	
B28b-SB01-3-S	18.75-19.0	8/20/94	8260	1,1-Dichloroethene	< 0.2	ug/kg	
B28b-SB01-3-S	18.75-19.0	8/20/94	8260	1,2,3-Trichloropropane	< 0.8	ug/kg	
B28b-SB01-3-S	18.75-19.0	8/20/94	8260	1,2-Dichlorobenzene	< 0.2	ug/kg	
B28b-SB01-3-S	18.75-19.0	8/20/94	8260	1,2-Dichloroethane	< 0.6	ug/kg	
B28b-SB01-3-S	18.75-19.0	8/20/94	8260	1,2-Dichloropropane	< 0.8	ug/kg	
B28b-SB01-3-S	18.75-19.0	8/20/94	8260	1,3-Dichlorobenzene	< 0.2	ug/kg	
B28b-SB01-3-S	18.75-19.0	8/20/94	8260	1,4-Dichlorobenzene	< 0.4	ug/kg	
B28b-SB01-3-S	18.75-19.0	8/20/94	8260	Benzene	< 0.2	ug/kg	
B28b-SB01-3-S	18.75-19.0	8/20/94	8260	Bromobenzene	< 0.4	ug/kg	
B28b-SB01-3-S	18.75-19.0	8/20/94	8260	Bromodichloromethane	< 0.2	ug/kg	
B28b-SB01-3-S	18.75-19.0	8/20/94	8260	Bromoform	< 0.2	ug/kg	
B28b-SB01-3-S	18.75-19.0	8/20/94	8260	Bromomethane	< 0.2	ug/kg	
B28b-SB01-3-S	18.75-19.0	8/20/94	8260	Carbon Tetrachloride	< 0.6	ug/kg	
B28b-SB01-3-S	18.75-19.0	8/20/94	8260	Chlorobenzene	< 0.2	ug/kg	
B28b-SB01-3-S	18.75-19.0	8/20/94	8260	Chloroethane	< 0.2	ug/kg	
B28b-SB01-3-S	18.75-19.0	8/20/94	8260	Chloroform	< 0.2	ug/kg	
B28b-SB01-3-S	18.75-19.0	8/20/94	8260	Chloromethane	< 0.6	ug/kg	
B28b-SB01-3-S	18.75-19.0	8/20/94	8260	cis-1,3-Dichloropropene	< 0.2	ug/kg	
B28b-SB01-3-S	18.75-19.0	8/20/94	8260	Dibromochloromethane	< 0.6	ug/kg	
B28b-SB01-3-S	18.75-19.0	8/20/94	8260	Dibromomethane	< 0.2	ug/kg	
B28b-SB01-3-S	18.75-19.0	8/20/94	8260	Dichlorodifluoromethane	< 0.1	ug/kg	
B28b-SB01-3-S	18.75-19.0	8/20/94	8260	Ethylbenzene	< 0.2	ug/kg	
B28b-SB01-3-S	18.75-19.0	8/20/94	8260	Methylene chloride	< 0.4	ug/kg	

Summary Table of Analytical Data

SWMU B28b - 108-20 EO Spill Impoundment

Hawthorne Army Depot

Hawthorne, Nevada

January 1996

FINAL

FINAL

Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
B28b-SB01-3-S	18.75-19.0	8/20/94	8260	Tetrachloroethene	< 0.6	ug/kg	
B28b-SB01-3-S	18.75-19.0	8/20/94	8260	Toluene	< 0.4	ug/kg	
B28b-SB01-3-S	18.75-19.0	8/20/94	8260	Total Xylene Isomers	< 0.6	ug/kg	
B28b-SB01-3-S	18.75-19.0	8/20/94	8260	trans-1,2-Dichloroethene	< 0.2	ug/kg	
B28b-SB01-3-S	18.75-19.0	8/20/94	8260	trans-1,3-Dichloropropene	< 0.2	ug/kg	
B28b-SB01-3-S	18.75-19.0	8/20/94	8260	Trichloroethene	< 1	ug/kg	
B28b-SB01-3-S	18.75-19.0	8/20/94	8260	Trichlorofluoromethane	< 0.1	ug/kg	
B28b-SB01-3-S	18.75-19.0	8/20/94	8260	Vinyl chloride	< 0.2	ug/kg	
B28b-SB01-3-S	18.25-18.5	8/20/94	D2216	Moisture/TNFR	1.2	percent	
B28b-SB01-3-SD (DP2	18.5-18.75	8/20/94	8090M	1,3,5-Trinitrobenzene	< 500	ug/kg	UJ-
B28b-SB01-3-SD (DP2	18.5-18.75	8/20/94	8090M	1,3-Dinitrobenzene	< 250	ug/kg	UJ-
B28b-SB01-3-SD (DP2	18.5-18.75	8/20/94	8090M	2,4,6-Trinitrotoluene	< 250	ug/kg	
B28b-SB01-3-SD (DP2	18.5-18.75	8/20/94	8090M	2,4-Dinitrotoluene	< 250	ug/kg	
B28b-SB01-3-SD (DP2	18.5-18.75	8/20/94	8090M	2,6-Dinitrotoluene	< 250	ug/kg	
B28b-SB01-3-SD (DP2	18.5-18.75	8/20/94	8090M	2-Nitrotoluene	< 250	ug/kg	
B28b-SB01-3-SD (DP2	18.5-18.75	8/20/94	8090M	3-Nitrotoluene	< 250	ug/kg	
B28b-SB01-3-SD (DP2	18.5-18.75	8/20/94	8090M	4-Nitrotoluene	< 250	ug/kg	
B28b-SB01-3-SD (DP2	18.5-18.75	8/20/94	8090M	Nitrobenzene	< 250	ug/kg	
B28b-SB01-3-SD (DP2	18.5-18.75	8/20/94	8090M	RDX	< 50000	ug/kg	R
B28b-SB01-3-SD (DP2	18.5-18.75	8/20/94	8090M	Tetryl	< 250	ug/kg	
B28b-SB02-1-S	4.25-4.5	8/20/94	8090M	1,3,5-Trinitrobenzene	< 500	ug/kg	UJ-
B28b-SB02-1-S	4.25-4.5	8/20/94	8090M	1,3-Dinitrobenzene	< 250	ug/kg	UJ-
B28b-SB02-1-S	4.25-4.5	8/20/94	8090M	2,4,6-Trinitrotoluene	< 250	ug/kg	
B28b-SB02-1-S	4.25-4.5	8/20/94	8090M	2,4-Dinitrotoluene	< 250	ug/kg	
B28b-SB02-1-S	4.25-4.5	8/20/94	8090M	2,6-Dinitrotoluene	< 250	ug/kg	
B28b-SB02-1-S	4.25-4.5	8/20/94	8090M	2-Nitrotoluene	< 250	ug/kg	
B28b-SB02-1-S	4.25-4.5	8/20/94	8090M	3-Nitrotoluene	< 250	ug/kg	
B28b-SB02-1-S	4.25-4.5	8/20/94	8090M	4-Nitrotoluene	< 250	ug/kg	
B28b-SB02-1-S	4.25-4.5	8/20/94	8090M	Nitrobenzene	< 250	ug/kg	
B28b-SB02-1-S	4.25-4.5	8/20/94	8090M	RDX	< 50000	ug/kg	R
B28b-SB02-1-S	4.25-4.5	8/20/94	8090M	Tetryl	< 250	ug/kg	
B28b-SB02-1-S	5.5-5.75	8/20/94	8260	1,1,1,2-Tetrachloroethane	< 0.4	ug/kg	
B28b-SB02-1-S	5.5-5.75	8/20/94	8260	1,1,1-Trichloroethane	< 0.6	ug/kg	
B28b-SB02-1-S	5.5-5.75	8/20/94	8260	1,1,2,2-Tetrachloroethane	< 0.2	ug/kg	
B28b-SB02-1-S	5.5-5.75	8/20/94	8260	1,1,2-Trichloroethane	< 0.4	ug/kg	
B28b-SB02-1-S	5.5-5.75	8/20/94	8260	1,1-Dichloroethane	< 0.2	ug/kg	
B28b-SB02-1-S	5.5-5.75	8/20/94	8260	1,1-Dichloroethene	< 0.2	ug/kg	
B28b-SB02-1-S	5.5-5.75	8/20/94	8260	1,2,3-Trichloropropane	< 0.8	ug/kg	
B28b-SB02-1-S	5.5-5.75	8/20/94	8260	1,2-Dichlorobenzene	< 0.2	ug/kg	
B28b-SB02-1-S	5.5-5.75	8/20/94	8260	1,2-Dichloroethane	< 0.6	ug/kg	
B28b-SB02-1-S	5.5-5.75	8/20/94	8260	1,2-Dichloropropane	< 0.8	ug/kg	
B28b-SB02-1-S	5.5-5.75	8/20/94	8260	1,3-Dichlorobenzene	< 0.2	ug/kg	
B28b-SB02-1-S	5.5-5.75	8/20/94	8260	1,4-Dichlorobenzene	< 0.4	ug/kg	

Summary Table of Analytical Data

SWMU B28b - 108-20 EO Spill Impoundment

Hawthorne Army Depot
Hawthorne, Nevada
January 1996

FINAL

Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
B28b-SB02-1-S	5.5-5.75	8/20/94	8260	Benzene	< 0.2	ug/kg	
B28b-SB02-1-S	5.5-5.75	8/20/94	8260	Bromobenzene	< 0.4	ug/kg	
B28b-SB02-1-S	5.5-5.75	8/20/94	8260	Bromodichloromethane	< 0.2	ug/kg	
B28b-SB02-1-S	5.5-5.75	8/20/94	8260	Bromoform	< 0.2	ug/kg	
B28b-SB02-1-S	5.5-5.75	8/20/94	8260	Bromomethane	< 0.2	ug/kg	
B28b-SB02-1-S	5.5-5.75	8/20/94	8260	Carbon Tetrachloride	< 0.6	ug/kg	
B28b-SB02-1-S	5.5-5.75	8/20/94	8260	Chlorobenzene	< 0.2	ug/kg	
B28b-SB02-1-S	5.5-5.75	8/20/94	8260	Chloroethane	< 0.2	ug/kg	
B28b-SB02-1-S	5.5-5.75	8/20/94	8260	Chloroform	< 0.2	ug/kg	
B28b-SB02-1-S	5.5-5.75	8/20/94	8260	Chloromethane	< 0.6	ug/kg	
B28b-SB02-1-S	5.5-5.75	8/20/94	8260	cis-1,3-Dichloropropene	< 0.2	ug/kg	
B28b-SB02-1-S	5.5-5.75	8/20/94	8260	Dibromochloromethane	< 0.6	ug/kg	
B28b-SB02-1-S	5.5-5.75	8/20/94	8260	Dibromomethane	< 0.2	ug/kg	
B28b-SB02-1-S	5.5-5.75	8/20/94	8260	Dichlorodifluoromethane	< 0.1	ug/kg	
B28b-SB02-1-S	5.5-5.75	8/20/94	8260	Ethylbenzene	< 0.2	ug/kg	
B28b-SB02-1-S	5.5-5.75	8/20/94	8260	Methylene chloride	< 0.4	ug/kg	
B28b-SB02-1-S	5.5-5.75	8/20/94	8260	Tetrachloroethene	< 0.6	ug/kg	
B28b-SB02-1-S	5.5-5.75	8/20/94	8260	Toluene	< 0.4	ug/kg	
B28b-SB02-1-S	5.5-5.75	8/20/94	8260	Total Xylene Isomers	< 0.6	ug/kg	
B28b-SB02-1-S	5.5-5.75	8/20/94	8260	trans-1,2-Dichloroethene	< 0.2	ug/kg	
B28b-SB02-1-S	5.5-5.75	8/20/94	8260	trans-1,3-Dichloropropene	< 0.2	ug/kg	
B28b-SB02-1-S	5.5-5.75	8/20/94	8260	Trichloroethene	< 1	ug/kg	
B28b-SB02-1-S	5.5-5.75	8/20/94	8260	Trichlorofluoromethane	< 0.1	ug/kg	
B28b-SB02-1-S	5.5-5.75	8/20/94	8260	Vinyl chloride	< 0.2	ug/kg	
B28b-SB02-1-S	4.25-4.5	8/20/94	D2216	Moisture/TNFR	1.3	percent	
B28b-SB02-1-SD (DP2	4.75-5.0	8/20/94	8090M	1,3,5-Trinitrobenzene	< 500	ug/kg	UJ-
B28b-SB02-1-SD (DP2	4.75-5.0	8/20/94	8090M	1,3-Dinitrobenzene	< 250	ug/kg	UJ-
B28b-SB02-1-SD (DP2	4.75-5.0	8/20/94	8090M	2,4,6-Trinitrotoluene	< 250	ug/kg	
B28b-SB02-1-SD (DP2	4.75-5.0	8/20/94	8090M	2,4-Dinitrotoluene	< 250	ug/kg	
B28b-SB02-1-SD (DP2	4.75-5.0	8/20/94	8090M	2,6-Dinitrotoluene	< 250	ug/kg	
B28b-SB02-1-SD (DP2	4.75-5.0	8/20/94	8090M	2-Nitrotoluene	< 250	ug/kg	
B28b-SB02-1-SD (DP2	4.75-5.0	8/20/94	8090M	3-Nitrotoluene	< 250	ug/kg	
B28b-SB02-1-SD (DP2	4.75-5.0	8/20/94	8090M	4-Nitrotoluene	< 250	ug/kg	
B28b-SB02-1-SD (DP2	4.75-5.0	8/20/94	8090M	Nitrobenzene	< 250	ug/kg	
B28b-SB02-1-SD (DP2	4.75-5.0	8/20/94	8090M	RDX	< 50000	ug/kg	R
B28b-SB02-1-SD (DP2	4.75-5.0	8/20/94	8090M	Tetryl	< 250	ug/kg	
B28b-SB02-1-SD (DP2	5.75-6.0	8/20/94	8260	1,1,1,2-Tetrachloroethane	< 0.4	ug/kg	
B28b-SB02-1-SD (DP2	5.75-6.0	8/20/94	8260	1,1,1-Trichloroethane	< 0.6	ug/kg	
B28b-SB02-1-SD (DP2	5.75-6.0	8/20/94	8260	1,1,2,2-Tetrachloroethane	< 0.2	ug/kg	
B28b-SB02-1-SD (DP2	5.75-6.0	8/20/94	8260	1,1,2-Trichloroethane	< 0.4	ug/kg	
B28b-SB02-1-SD (DP2	5.75-6.0	8/20/94	8260	1,1-Dichloroethane	< 0.2	ug/kg	
B28b-SB02-1-SD (DP2	5.75-6.0	8/20/94	8260	1,1-Dichloroethene	< 0.2	ug/kg	
B28b-SB02-1-SD (DP2	5.75-6.0	8/20/94	8260	1,2,3-Trichloropropane	< 0.8	ug/kg	
B28b-SB02-1-SD (DP2	5.75-6.0	8/20/94	8260	1,2-Dichlorobenzene	< 0.2	ug/kg	
B28b-SB02-1-SD (DP2	5.75-6.0	8/20/94	8260	1,2-Dichloroethane	< 0.6	ug/kg	

Summary Table of Analytical Data

SWMU B28b - 108-20 EO Spill Impoundment

Hawthorne Army Depot

Hawthorne, Nevada

FINAL

January 1996

FINAL

Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
B28b-SB02-1-SD (DP2	5.75-6.0	8/20/94	8260	1,2-Dichloropropane	< 0.8	ug/kg	
B28b-SB02-1-SD (DP2	5.75-6.0	8/20/94	8260	1,3-Dichlorobenzene	< 0.2	ug/kg	
B28b-SB02-1-SD (DP2	5.75-6.0	8/20/94	8260	1,4-Dichlorobenzene	< 0.4	ug/kg	
B28b-SB02-1-SD (DP2	5.75-6.0	8/20/94	8260	Benzene	< 0.2	ug/kg	
B28b-SB02-1-SD (DP2	5.75-6.0	8/20/94	8260	Bromobenzene	< 0.4	ug/kg	
B28b-SB02-1-SD (DP2	5.75-6.0	8/20/94	8260	Bromodichloromethane	< 0.2	ug/kg	
B28b-SB02-1-SD (DP2	5.75-6.0	8/20/94	8260	Bromoform	< 0.2	ug/kg	
B28b-SB02-1-SD (DP2	5.75-6.0	8/20/94	8260	Bromomethane	< 0.2	ug/kg	
B28b-SB02-1-SD (DP2	5.75-6.0	8/20/94	8260	Carbon Tetrachloride	< 0.6	ug/kg	
B28b-SB02-1-SD (DP2	5.75-6.0	8/20/94	8260	Chlorobenzene	< 0.2	ug/kg	
B28b-SB02-1-SD (DP2	5.75-6.0	8/20/94	8260	Chloroethane	< 0.2	ug/kg	
B28b-SB02-1-SD (DP2	5.75-6.0	8/20/94	8260	Chloroform	< 0.2	ug/kg	
B28b-SB02-1-SD (DP2	5.75-6.0	8/20/94	8260	Chloromethane	< 0.6	ug/kg	
B28b-SB02-1-SD (DP2	5.75-6.0	8/20/94	8260	cis-1,3-Dichloropropene	< 0.2	ug/kg	
B28b-SB02-1-SD (DP2	5.75-6.0	8/20/94	8260	Dibromochloromethane	< 0.6	ug/kg	
B28b-SB02-1-SD (DP2	5.75-6.0	8/20/94	8260	Dibromomethane	< 0.2	ug/kg	
B28b-SB02-1-SD (DP2	5.75-6.0	8/20/94	8260	Dichlorodifluoromethane	< 0.1	ug/kg	
B28b-SB02-1-SD (DP2	5.75-6.0	8/20/94	8260	Ethylbenzene	< 0.2	ug/kg	
B28b-SB02-1-SD (DP2	5.75-6.0	8/20/94	8260	Methylene chloride	5.2	ug/kg	
B28b-SB02-1-SD (DP2	5.75-6.0	8/20/94	8260	Tetrachloroethene	< 0.6	ug/kg	
B28b-SB02-1-SD (DP2	5.75-6.0	8/20/94	8260	Toluene	1	ug/kg	
B28b-SB02-1-SD (DP2	5.75-6.0	8/20/94	8260	Total Xylene Isomers	< 0.6	ug/kg	
B28b-SB02-1-SD (DP2	5.75-6.0	8/20/94	8260	trans-1,2-Dichloroethene	< 0.2	ug/kg	
B28b-SB02-1-SD (DP2	5.75-6.0	8/20/94	8260	trans-1,3-Dichloropropene	< 0.2	ug/kg	
B28b-SB02-1-SD (DP2	5.75-6.0	8/20/94	8260	Trichloroethene	< 1	ug/kg	
B28b-SB02-1-SD (DP2	5.75-6.0	8/20/94	8260	Trichlorofluoromethane	< 0.1	ug/kg	
B28b-SB02-1-SD (DP2	5.75-6.0	8/20/94	8260	Vinyl chloride	< 0.2	ug/kg	
B28b-SB02-1-SD (DP2	4.5-4.75	8/20/94	8330	1,3,5-Trinitrobenzene	< 90	ug/kg	
B28b-SB02-1-SD (DP2	4.5-4.75	8/20/94	8330	1,3-Dinitrobenzene	< 40	ug/kg	
B28b-SB02-1-SD (DP2	4.5-4.75	8/20/94	8330	2,4,6-Trinitrotoluene	< 190	ug/kg	
B28b-SB02-1-SD (DP2	4.5-4.75	8/20/94	8330	2,4-Dinitrotoluene	< 190	ug/kg	
B28b-SB02-1-SD (DP2	4.5-4.75	8/20/94	8330	2,6-Dinitrotoluene	< 170	ug/kg	
B28b-SB02-1-SD (DP2	4.5-4.75	8/20/94	8330	2-Nitrotoluene	< 460	ug/kg	
B28b-SB02-1-SD (DP2	4.5-4.75	8/20/94	8330	3-Nitrotoluene	< 390	ug/kg	
B28b-SB02-1-SD (DP2	4.5-4.75	8/20/94	8330	4-Nitrotoluene	< 740	ug/kg	
B28b-SB02-1-SD (DP2	4.5-4.75	8/20/94	8330	HMX	< 210	ug/kg	
B28b-SB02-1-SD (DP2	4.5-4.75	8/20/94	8330	Nitrobenzene	< 90	ug/kg	
B28b-SB02-1-SD (DP2	4.5-4.75	8/20/94	8330	RDX	< 340	ug/kg	
B28b-SB02-1-SD (DP2	4.5-4.75	8/20/94	8330	Tetryl	< 190	ug/kg	
B28b-SB02-1-SD (DP2	5.75-6.0	8/20/94	D2216	Moisture/TNFR	0.7	percent	
B28b-SB02-2-S	14.0-14.25	8/20/94	8090M	1,3,5-Trinitrobenzene	< 500	ug/kg	UJ-
B28b-SB02-2-S	14.0-14.25	8/20/94	8090M	1,3-Dinitrobenzene	< 250	ug/kg	UJ-
B28b-SB02-2-S	14.0-14.25	8/20/94	8090M	2,4,6-Trinitrotoluene	< 250	ug/kg	
B28b-SB02-2-S	14.0-14.25	8/20/94	8090M	2,4-Dinitrotoluene	< 250	ug/kg	
B28b-SB02-2-S	14.0-14.25	8/20/94	8090M	2,6-Dinitrotoluene	< 250	ug/kg	

Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
B28b-SB02-2-S	14.0-14.25	8/20/94	8090M	2-Nitrotoluene	< 250	ug/kg	
B28b-SB02-2-S	14.0-14.25	8/20/94	8090M	3-Nitrotoluene	< 250	ug/kg	
B28b-SB02-2-S	14.0-14.25	8/20/94	8090M	4-Nitrotoluene	< 250	ug/kg	
B28b-SB02-2-S	14.0-14.25	8/20/94	8090M	Nitrobenzene	< 250	ug/kg	
B28b-SB02-2-S	14.0-14.25	8/20/94	8090M	RDX	< 50000	ug/kg	R
B28b-SB02-2-S	14.0-14.25	8/20/94	8090M	Tetryl	< 250	ug/kg	
B28b-SB02-2-S	14.25-14.5	8/20/94	8260	1,1,1,2-Tetrachloroethane	< 0.4	ug/kg	
B28b-SB02-2-S	14.25-14.5	8/20/94	8260	1,1,1-Trichloroethane	< 0.6	ug/kg	
B28b-SB02-2-S	14.25-14.5	8/20/94	8260	1,1,2,2-Tetrachloroethane	< 0.2	ug/kg	
B28b-SB02-2-S	14.25-14.5	8/20/94	8260	1,1,2-Trichloroethane	< 0.4	ug/kg	
B28b-SB02-2-S	14.25-14.5	8/20/94	8260	1,1-Dichloroethane	< 0.2	ug/kg	
B28b-SB02-2-S	14.25-14.5	8/20/94	8260	1,1-Dichloroethene	< 0.2	ug/kg	
B28b-SB02-2-S	14.25-14.5	8/20/94	8260	1,2,3-Trichloropropane	< 0.8	ug/kg	
B28b-SB02-2-S	14.25-14.5	8/20/94	8260	1,2-Dichlorobenzene	< 0.2	ug/kg	
B28b-SB02-2-S	14.25-14.5	8/20/94	8260	1,2-Dichloroethane	< 0.6	ug/kg	
B28b-SB02-2-S	14.25-14.5	8/20/94	8260	1,2-Dichloropropane	< 0.8	ug/kg	
B28b-SB02-2-S	14.25-14.5	8/20/94	8260	1,3-Dichlorobenzene	< 0.2	ug/kg	
B28b-SB02-2-S	14.25-14.5	8/20/94	8260	1,4-Dichlorobenzene	< 0.4	ug/kg	
B28b-SB02-2-S	14.25-14.5	8/20/94	8260	Benzene	< 0.2	ug/kg	
B28b-SB02-2-S	14.25-14.5	8/20/94	8260	Bromobenzene	< 0.4	ug/kg	
B28b-SB02-2-S	14.25-14.5	8/20/94	8260	Bromodichloromethane	< 0.2	ug/kg	
B28b-SB02-2-S	14.25-14.5	8/20/94	8260	Bromoform	< 0.2	ug/kg	
B28b-SB02-2-S	14.25-14.5	8/20/94	8260	Bromomethane	< 0.2	ug/kg	
B28b-SB02-2-S	14.25-14.5	8/20/94	8260	Carbon Tetrachloride	< 0.6	ug/kg	
B28b-SB02-2-S	14.25-14.5	8/20/94	8260	Chlorobenzene	< 0.2	ug/kg	
B28b-SB02-2-S	14.25-14.5	8/20/94	8260	Chloroethane	< 0.2	ug/kg	
B28b-SB02-2-S	14.25-14.5	8/20/94	8260	Chloroform	< 0.2	ug/kg	
B28b-SB02-2-S	14.25-14.5	8/20/94	8260	Chloromethane	< 0.6	ug/kg	
B28b-SB02-2-S	14.25-14.5	8/20/94	8260	cis-1,3-Dichloropropene	< 0.2	ug/kg	
B28b-SB02-2-S	14.25-14.5	8/20/94	8260	Dibromochloromethane	< 0.6	ug/kg	
B28b-SB02-2-S	14.25-14.5	8/20/94	8260	Dibromomethane	< 0.2	ug/kg	
B28b-SB02-2-S	14.25-14.5	8/20/94	8260	Dichlorodifluoromethane	< 0.1	ug/kg	
B28b-SB02-2-S	14.25-14.5	8/20/94	8260	Ethylbenzene	< 0.2	ug/kg	
B28b-SB02-2-S	14.25-14.5	8/20/94	8260	Methylene chloride	3.3	ug/kg	
B28b-SB02-2-S	14.25-14.5	8/20/94	8260	Tetrachloroethene	< 0.6	ug/kg	
B28b-SB02-2-S	14.25-14.5	8/20/94	8260	Toluene	< 0.4	ug/kg	
B28b-SB02-2-S	14.25-14.5	8/20/94	8260	Total Xylene Isomers	< 0.6	ug/kg	
B28b-SB02-2-S	14.25-14.5	8/20/94	8260	trans-1,2-Dichloroethene	< 0.2	ug/kg	
B28b-SB02-2-S	14.25-14.5	8/20/94	8260	trans-1,3-Dichloropropene	< 0.2	ug/kg	
B28b-SB02-2-S	14.25-14.5	8/20/94	8260	Trichloroethene	< 1	ug/kg	
B28b-SB02-2-S	14.25-14.5	8/20/94	8260	Trichlorofluoromethane	< 0.1	ug/kg	
B28b-SB02-2-S	14.25-14.5	8/20/94	8260	Vinyl chloride	< 0.2	ug/kg	
B28b-SB02-2-S	14.0-14.25	8/20/94	D2216	Moisture/TNFR	1.3	percent	

B28b-SB02-2-SD (DP2	14.25-14.5	8/20/94	8330	1,3,5-Trinitrobenzene	< 90	ug/kg	
B28b-SB02-2-SD (DP2	14.25-14.5	8/20/94	8330	1,3-Dinitrobenzene	< 40	ug/kg	

Summary Table of Analytical Data

SWMU B28b - 108-20 EO Spill Impoundment

Hawthorne Army Depot

Hawthorne, Nevada

January 1996

FINAL

FINAL

Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
B28b-SB02-2-SD (DP2	14.25-14.5	8/20/94	8330	2,4,6-Trinitrotoluene	< 190	ug/kg	
B28b-SB02-2-SD (DP2	14.25-14.5	8/20/94	8330	2,4-Dinitrotoluene	< 190	ug/kg	
B28b-SB02-2-SD (DP2	14.25-14.5	8/20/94	8330	2,6-Dinitrotoluene	< 170	ug/kg	
B28b-SB02-2-SD (DP2	14.25-14.5	8/20/94	8330	2-Nitrotoluene	< 460	ug/kg	
B28b-SB02-2-SD (DP2	14.25-14.5	8/20/94	8330	3-Nitrotoluene	< 390	ug/kg	
B28b-SB02-2-SD (DP2	14.25-14.5	8/20/94	8330	4-Nitrotoluene	< 740	ug/kg	
B28b-SB02-2-SD (DP2	14.25-14.5	8/20/94	8330	HMX	< 210	ug/kg	
B28b-SB02-2-SD (DP2	14.25-14.5	8/20/94	8330	Nitrobenzene	< 90	ug/kg	
B28b-SB02-2-SD (DP2	14.25-14.5	8/20/94	8330	RDX	< 340	ug/kg	
B28b-SB02-2-SD (DP2	14.25-14.5	8/20/94	8330	Tetryl	< 190	ug/kg	
B28b-SB02-3-S	16.25-16.5	8/20/94	8090M	1,3,5-Trinitrobenzene	< 500	ug/kg	UJ-
B28b-SB02-3-S	16.25-16.5	8/20/94	8090M	1,3-Dinitrobenzene	< 250	ug/kg	UJ-
B28b-SB02-3-S	16.25-16.5	8/20/94	8090M	2,4,6-Trinitrotoluene	< 250	ug/kg	
B28b-SB02-3-S	16.25-16.5	8/20/94	8090M	2,4-Dinitrotoluene	< 250	ug/kg	
B28b-SB02-3-S	16.25-16.5	8/20/94	8090M	2,6-Dinitrotoluene	< 250	ug/kg	
B28b-SB02-3-S	16.25-16.5	8/20/94	8090M	2-Nitrotoluene	< 250	ug/kg	
B28b-SB02-3-S	16.25-16.5	8/20/94	8090M	3-Nitrotoluene	< 250	ug/kg	
B28b-SB02-3-S	16.25-16.5	8/20/94	8090M	4-Nitrotoluene	< 250	ug/kg	
B28b-SB02-3-S	16.25-16.5	8/20/94	8090M	Nitrobenzene	< 250	ug/kg	
B28b-SB02-3-S	16.25-16.5	8/20/94	8090M	RDX	< 50000	ug/kg	R
B28b-SB02-3-S	16.25-16.5	8/20/94	8090M	Tetryl	< 250	ug/kg	
B28b-SB02-3-S	16.75-17.0	8/20/94	8260	1,1,1,2-Tetrachloroethane	< 0.4	ug/kg	
B28b-SB02-3-S	16.75-17.0	8/20/94	8260	1,1,1-Trichloroethane	< 0.6	ug/kg	
B28b-SB02-3-S	16.75-17.0	8/20/94	8260	1,1,2,2-Tetrachloroethane	< 0.2	ug/kg	
B28b-SB02-3-S	16.75-17.0	8/20/94	8260	1,1,2-Trichloroethane	< 0.4	ug/kg	
B28b-SB02-3-S	16.75-17.0	8/20/94	8260	1,1-Dichloroethane	< 0.2	ug/kg	
B28b-SB02-3-S	16.75-17.0	8/20/94	8260	1,1-Dichloroethene	< 0.2	ug/kg	
B28b-SB02-3-S	16.75-17.0	8/20/94	8260	1,2,3-Trichloropropane	< 0.8	ug/kg	
B28b-SB02-3-S	16.75-17.0	8/20/94	8260	1,2-Dichlorobenzene	< 0.2	ug/kg	
B28b-SB02-3-S	16.75-17.0	8/20/94	8260	1,2-Dichloroethane	< 0.6	ug/kg	
B28b-SB02-3-S	16.75-17.0	8/20/94	8260	1,2-Dichloropropane	< 0.8	ug/kg	
B28b-SB02-3-S	16.75-17.0	8/20/94	8260	1,3-Dichlorobenzene	< 0.2	ug/kg	
B28b-SB02-3-S	16.75-17.0	8/20/94	8260	1,4-Dichlorobenzene	< 0.4	ug/kg	
B28b-SB02-3-S	16.75-17.0	8/20/94	8260	Benzene	< 0.2	ug/kg	
B28b-SB02-3-S	16.75-17.0	8/20/94	8260	Bromobenzene	< 0.4	ug/kg	
B28b-SB02-3-S	16.75-17.0	8/20/94	8260	Bromodichloromethane	< 0.2	ug/kg	
B28b-SB02-3-S	16.75-17.0	8/20/94	8260	Bromoform	< 0.2	ug/kg	
B28b-SB02-3-S	16.75-17.0	8/20/94	8260	Bromomethane	< 0.2	ug/kg	
B28b-SB02-3-S	16.75-17.0	8/20/94	8260	Carbon Tetrachloride	< 0.6	ug/kg	
B28b-SB02-3-S	16.75-17.0	8/20/94	8260	Chlorobenzene	< 0.2	ug/kg	
B28b-SB02-3-S	16.75-17.0	8/20/94	8260	Chloroethane	< 0.2	ug/kg	
B28b-SB02-3-S	16.75-17.0	8/20/94	8260	Chloroform	< 0.2	ug/kg	
B28b-SB02-3-S	16.75-17.0	8/20/94	8260	Chloromethane	< 0.6	ug/kg	
B28b-SB02-3-S	16.75-17.0	8/20/94	8260	cis-1,3-Dichloropropene	< 0.2	ug/kg	
B28b-SB02-3-S	16.75-17.0	8/20/94	8260	Dibromochloromethane	< 0.6	ug/kg	

Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
B28b-SB02-3-S	16.75-17.0	8/20/94	8260	Dibromomethane	< 0.2	ug/kg	
B28b-SB02-3-S	16.75-17.0	8/20/94	8260	Dichlorodifluoromethane	< 0.1	ug/kg	
B28b-SB02-3-S	16.75-17.0	8/20/94	8260	Ethylbenzene	< 0.2	ug/kg	
B28b-SB02-3-S	16.75-17.0	8/20/94	8260	Methylene chloride	3.2	ug/kg	
B28b-SB02-3-S	16.75-17.0	8/20/94	8260	Tetrachloroethene	< 0.6	ug/kg	
B28b-SB02-3-S	16.75-17.0	8/20/94	8260	Toluene	< 0.4	ug/kg	
B28b-SB02-3-S	16.75-17.0	8/20/94	8260	Total Xylene Isomers	< 0.6	ug/kg	
B28b-SB02-3-S	16.75-17.0	8/20/94	8260	trans-1,2-Dichloroethene	< 0.2	ug/kg	
B28b-SB02-3-S	16.75-17.0	8/20/94	8260	trans-1,3-Dichloropropene	< 0.2	ug/kg	
B28b-SB02-3-S	16.75-17.0	8/20/94	8260	Trichloroethene	< 1	ug/kg	
B28b-SB02-3-S	16.75-17.0	8/20/94	8260	Trichlorofluoromethane	< 0.1	ug/kg	
B28b-SB02-3-S	16.75-17.0	8/20/94	8260	Vinyl chloride	< 0.2	ug/kg	
B28b-SB02-3-S	16.25-16.5	8/20/94	D2216	Moisture/TNFR	6.4	percent	
B28b-SB02-3-SD (DP2	16.5-16.75	8/20/94	8090M	1,3,5-Trinitrobenzene	< 500	ug/kg	UJ-
B28b-SB02-3-SD (DP2	16.5-16.75	8/20/94	8090M	1,3-Dinitrobenzene	< 250	ug/kg	UJ-
B28b-SB02-3-SD (DP2	16.5-16.75	8/20/94	8090M	2,4,6-Trinitrotoluene	< 250	ug/kg	
B28b-SB02-3-SD (DP2	16.5-16.75	8/20/94	8090M	2,4-Dinitrotoluene	< 250	ug/kg	
B28b-SB02-3-SD (DP2	16.5-16.75	8/20/94	8090M	2,6-Dinitrotoluene	< 250	ug/kg	
B28b-SB02-3-SD (DP2	16.5-16.75	8/20/94	8090M	2-Nitrotoluene	< 250	ug/kg	
B28b-SB02-3-SD (DP2	16.5-16.75	8/20/94	8090M	3-Nitrotoluene	< 250	ug/kg	
B28b-SB02-3-SD (DP2	16.5-16.75	8/20/94	8090M	4-Nitrotoluene	< 250	ug/kg	
B28b-SB02-3-SD (DP2	16.5-16.75	8/20/94	8090M	Nitrobenzene	< 250	ug/kg	
B28b-SB02-3-SD (DP2	16.5-16.75	8/20/94	8090M	RDX	< 50000	ug/kg	R
B28b-SB02-3-SD (DP2	16.5-16.75	8/20/94	8090M	Tetryl	< 250	ug/kg	
B28b-SB02-3-SD (DP2	16.75-17.0	8/20/94	8260	1,1,1,2-Tetrachloroethane	< 0.4	ug/kg	
B28b-SB02-3-SD (DP2	16.75-17.0	8/20/94	8260	1,1,1-Trichloroethane	< 0.6	ug/kg	
B28b-SB02-3-SD (DP2	16.75-17.0	8/20/94	8260	1,1,2,2-Tetrachloroethane	< 0.2	ug/kg	
B28b-SB02-3-SD (DP2	16.75-17.0	8/20/94	8260	1,1,2-Trichloroethane	< 0.4	ug/kg	
B28b-SB02-3-SD (DP2	16.75-17.0	8/20/94	8260	1,1-Dichloroethane	< 0.2	ug/kg	
B28b-SB02-3-SD (DP2	16.75-17.0	8/20/94	8260	1,1-Dichloroethene	< 0.2	ug/kg	
B28b-SB02-3-SD (DP2	16.75-17.0	8/20/94	8260	1,2,3-Trichloropropane	< 0.8	ug/kg	
B28b-SB02-3-SD (DP2	16.75-17.0	8/20/94	8260	1,2-Dichlorobenzene	< 0.2	ug/kg	
B28b-SB02-3-SD (DP2	16.75-17.0	8/20/94	8260	1,2-Dichloroethane	< 0.6	ug/kg	
B28b-SB02-3-SD (DP2	16.75-17.0	8/20/94	8260	1,2-Dichloropropane	< 0.8	ug/kg	
B28b-SB02-3-SD (DP2	16.75-17.0	8/20/94	8260	1,3-Dichlorobenzene	< 0.2	ug/kg	
B28b-SB02-3-SD (DP2	16.75-17.0	8/20/94	8260	1,4-Dichlorobenzene	< 0.4	ug/kg	
B28b-SB02-3-SD (DP2	16.75-17.0	8/20/94	8260	Benzene	< 0.2	ug/kg	
B28b-SB02-3-SD (DP2	16.75-17.0	8/20/94	8260	Bromobenzene	< 0.4	ug/kg	
B28b-SB02-3-SD (DP2	16.75-17.0	8/20/94	8260	Bromodichloromethane	< 0.2	ug/kg	
B28b-SB02-3-SD (DP2	16.75-17.0	8/20/94	8260	Bromoform	< 0.2	ug/kg	
B28b-SB02-3-SD (DP2	16.75-17.0	8/20/94	8260	Bromomethane	< 0.2	ug/kg	
B28b-SB02-3-SD (DP2	16.75-17.0	8/20/94	8260	Carbon Tetrachloride	< 0.6	ug/kg	
B28b-SB02-3-SD (DP2	16.75-17.0	8/20/94	8260	Chlorobenzene	< 0.2	ug/kg	
B28b-SB02-3-SD (DP2	16.75-17.0	8/20/94	8260	Chloroethane	< 0.2	ug/kg	
B28b-SB02-3-SD (DP2	16.75-17.0	8/20/94	8260	Chloroform	< 0.2	ug/kg	

Summary Table of Analytical Data

SWMU B28b - 108-20 EO Spill Impoundment

Hawthorne Army Depot

Hawthorne, Nevada

January 1996

FINAL

FINAL

Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
B28b-SB02-3-SD (DP2	16.75-17.0	8/20/94	8260	Chloromethane	< 0.6	ug/kg	
B28b-SB02-3-SD (DP2	16.75-17.0	8/20/94	8260	cis-1,3-Dichloropropene	< 0.2	ug/kg	
B28b-SB02-3-SD (DP2	16.75-17.0	8/20/94	8260	Dibromochloromethane	< 0.6	ug/kg	
B28b-SB02-3-SD (DP2	16.75-17.0	8/20/94	8260	Dibromomethane	< 0.2	ug/kg	
B28b-SB02-3-SD (DP2	16.75-17.0	8/20/94	8260	Dichlorodifluoromethane	< 0.1	ug/kg	
B28b-SB02-3-SD (DP2	16.75-17.0	8/20/94	8260	Ethylbenzene	< 0.2	ug/kg	
B28b-SB02-3-SD (DP2	16.75-17.0	8/20/94	8260	Methylene chloride	< 0.4	ug/kg	
B28b-SB02-3-SD (DP2	16.75-17.0	8/20/94	8260	Tetrachloroethene	< 0.6	ug/kg	
B28b-SB02-3-SD (DP2	16.75-17.0	8/20/94	8260	Toluene	< 0.4	ug/kg	
B28b-SB02-3-SD (DP2	16.75-17.0	8/20/94	8260	Total Xylene Isomers	< 0.6	ug/kg	
B28b-SB02-3-SD (DP2	16.75-17.0	8/20/94	8260	trans-1,2-Dichloroethene	< 0.2	ug/kg	
B28b-SB02-3-SD (DP2	16.75-17.0	8/20/94	8260	trans-1,3-Dichloropropene	< 0.2	ug/kg	
B28b-SB02-3-SD (DP2	16.75-17.0	8/20/94	8260	Trichloroethene	< 1	ug/kg	
B28b-SB02-3-SD (DP2	16.75-17.0	8/20/94	8260	Trichlorofluoromethane	< 0.1	ug/kg	
B28b-SB02-3-SD (DP2	16.75-17.0	8/20/94	8260	Vinyl chloride	< 0.2	ug/kg	
B28b-SB02-3-SD (DP2	16.5-16.75	8/20/94	D2216	Moisture/TNFR	1.4	percent	
B28b-SG01	5.0	6/23/94	M8010	1,1,1-Trichloroethane	< 1	ug/L	
B28b-SG01	5.0	6/23/94	M8010	1,1,2-Trichloroethane	< 1	ug/L	
B28b-SG01	5.0	6/23/94	M8010	1,1-Dichloroethane	< 1	ug/L	
B28b-SG01	5.0	6/23/94	M8010	1,1-Dichloroethene	< 1	ug/L	
B28b-SG01	5.0	6/23/94	M8010	Carbon Tetrachloride	< 1	ug/L	
B28b-SG01	5.0	6/23/94	M8010	Chloroform	< 1	ug/L	
B28b-SG01	5.0	6/23/94	M8010	cis-1,2-Dichloroethene	< 1	ug/L	
B28b-SG01	5.0	6/23/94	M8010	Methylene Chloride	< 1	ug/L	
B28b-SG01	5.0	6/23/94	M8010	Tetrachloroethene	< 1	ug/L	
B28b-SG01	5.0	6/23/94	M8010	trans-1,2-Dichloroethene	< 1	ug/L	
B28b-SG01	5.0	6/23/94	M8010	Trichloroethene	< 1	ug/L	
B28b-SG01	5.0	6/23/94	M8020	Benzene	< 1	ug/L	
B28b-SG01	5.0	6/23/94	M8020	Ethylbenzene	< 1	ug/L	
B28b-SG01	5.0	6/23/94	M8020	Toluene	< 1	ug/L	
B28b-SG01	5.0	6/23/94	M8020	Total FID Volatiles	< 10	ug/L	
B28b-SG01	5.0	6/23/94	M8020	Total Xylene Isomers	< 1	ug/L	
B28b-SG02	5.0	6/23/94	M8010	1,1,1-Trichloroethane	< 1	ug/L	
B28b-SG02	5.0	6/23/94	M8010	1,1,2-Trichloroethane	< 1	ug/L	
B28b-SG02	5.0	6/23/94	M8010	1,1-Dichloroethane	< 1	ug/L	
B28b-SG02	5.0	6/23/94	M8010	1,1-Dichloroethene	< 1	ug/L	
B28b-SG02	5.0	6/23/94	M8010	Carbon Tetrachloride	< 1	ug/L	
B28b-SG02	5.0	6/23/94	M8010	Chloroform	< 1	ug/L	
B28b-SG02	5.0	6/23/94	M8010	cis-1,2-Dichloroethene	< 1	ug/L	
B28b-SG02	5.0	6/23/94	M8010	Methylene Chloride	< 1	ug/L	
B28b-SG02	5.0	6/23/94	M8010	Tetrachloroethene	< 1	ug/L	
B28b-SG02	5.0	6/23/94	M8010	trans-1,2-Dichloroethene	< 1	ug/L	
B28b-SG02	5.0	6/23/94	M8010	Trichloroethene	< 1	ug/L	

Summary Table of Analytical Data

SWMU B28b - 108-20 EO Spill Impoundment

Hawthorne Army Depot

Hawthorne, Nevada

FINAL

January 1996

FINAL

Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
B28b-SG02	5.0	6/23/94	M8020	Benzene	< 1	ug/L	
B28b-SG02	5.0	6/23/94	M8020	Ethylbenzene	< 1	ug/L	
B28b-SG02	5.0	6/23/94	M8020	Toluene	< 1	ug/L	
B28b-SG02	5.0	6/23/94	M8020	Total FID Volatiles	< 10	ug/L	
B28b-SG02	5.0	6/23/94	M8020	Total Xylene Isomers	< 1	ug/L	
B28b-SG03	5.0	6/23/94	M8010	1,1,1-Trichloroethane	< 1	ug/L	
B28b-SG03	5.0	6/23/94	M8010	1,1,2-Trichloroethane	< 1	ug/L	
B28b-SG03	5.0	6/23/94	M8010	1,1-Dichloroethane	< 1	ug/L	
B28b-SG03	5.0	6/23/94	M8010	1,1-Dichloroethene	< 1	ug/L	
B28b-SG03	5.0	6/23/94	M8010	Carbon Tetrachloride	< 1	ug/L	
B28b-SG03	5.0	6/23/94	M8010	Chloroform	< 1	ug/L	
B28b-SG03	5.0	6/23/94	M8010	cis-1,2-Dichloroethene	< 1	ug/L	
B28b-SG03	5.0	6/23/94	M8010	Methylene Chloride	< 1	ug/L	
B28b-SG03	5.0	6/23/94	M8010	Tetrachloroethene	< 1	ug/L	
B28b-SG03	5.0	6/23/94	M8010	trans-1,2-Dichloroethene	< 1	ug/L	
B28b-SG03	5.0	6/23/94	M8010	Trichloroethene	< 1	ug/L	
B28b-SG03	5.0	6/23/94	M8020	Benzene	< 1	ug/L	
B28b-SG03	5.0	6/23/94	M8020	Ethylbenzene	< 1	ug/L	
B28b-SG03	5.0	6/23/94	M8020	Toluene	< 1	ug/L	
B28b-SG03	5.0	6/23/94	M8020	Total FID Volatiles	< 10	ug/L	
B28b-SG03	5.0	6/23/94	M8020	Total Xylene Isomers	< 1	ug/L	
B28b-SG04	5.0	6/23/94	M8010	1,1,1-Trichloroethane	< 1	ug/L	
B28b-SG04	5.0	6/23/94	M8010	1,1,2-Trichloroethane	< 1	ug/L	
B28b-SG04	5.0	6/23/94	M8010	1,1-Dichloroethane	< 1	ug/L	
B28b-SG04	5.0	6/23/94	M8010	1,1-Dichloroethene	< 1	ug/L	
B28b-SG04	5.0	6/23/94	M8010	Carbon Tetrachloride	< 1	ug/L	
B28b-SG04	5.0	6/23/94	M8010	Chloroform	< 1	ug/L	
B28b-SG04	5.0	6/23/94	M8010	cis-1,2-Dichloroethene	< 1	ug/L	
B28b-SG04	5.0	6/23/94	M8010	Methylene Chloride	< 1	ug/L	
B28b-SG04	5.0	6/23/94	M8010	Tetrachloroethene	< 1	ug/L	
B28b-SG04	5.0	6/23/94	M8010	trans-1,2-Dichloroethene	< 1	ug/L	
B28b-SG04	5.0	6/23/94	M8010	Trichloroethene	< 1	ug/L	
B28b-SG04	5.0	6/23/94	M8020	Benzene	< 1	ug/L	
B28b-SG04	5.0	6/23/94	M8020	Ethylbenzene	< 1	ug/L	
B28b-SG04	5.0	6/23/94	M8020	Toluene	< 1	ug/L	
B28b-SG04	5.0	6/23/94	M8020	Total FID Volatiles	< 10	ug/L	
B28b-SG04	5.0	6/23/94	M8020	Total Xylene Isomers	< 1	ug/L	
B28b-SG05	5.0	6/23/94	M8010	1,1,1-Trichloroethane	< 1	ug/L	
B28b-SG05	5.0	6/23/94	M8010	1,1,2-Trichloroethane	< 1	ug/L	
B28b-SG05	5.0	6/23/94	M8010	1,1-Dichloroethane	< 1	ug/L	
B28b-SG05	5.0	6/23/94	M8010	1,1-Dichloroethene	< 1	ug/L	
B28b-SG05	5.0	6/23/94	M8010	Carbon Tetrachloride	< 1	ug/L	

Summary Table of Analytical Data

SWMU B28b - 108-20 EO Spill Impoundment

Hawthorne Army Depot

Hawthorne, Nevada

January 1996

FINAL

FINAL

Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
B28b-SG05	5.0	6/23/94	M8010	Chloroform	< 1	ug/L	
B28b-SG05	5.0	6/23/94	M8010	cis-1,2-Dichloroethene	< 1	ug/L	
B28b-SG05	5.0	6/23/94	M8010	Methylene Chloride	< 1	ug/L	
B28b-SG05	5.0	6/23/94	M8010	Tetrachloroethene	< 1	ug/L	
B28b-SG05	5.0	6/23/94	M8010	trans-1,2-Dichloroethene	< 1	ug/L	
B28b-SG05	5.0	6/23/94	M8010	Trichloroethene	< 1	ug/L	
B28b-SG05	5.0	6/23/94	M8020	Benzene	< 1	ug/L	
B28b-SG05	5.0	6/23/94	M8020	Ethylbenzene	< 1	ug/L	
B28b-SG05	5.0	6/23/94	M8020	Toluene	< 1	ug/L	
B28b-SG05	5.0	6/23/94	M8020	Total FID Volatiles	< 10	ug/L	
B28b-SG05	5.0	6/23/94	M8020	Total Xylene Isomers	< 1	ug/L	
B28b-SG06	5.0	6/23/94	M8010	1,1,1-Trichloroethane	< 1	ug/L	
B28b-SG06	5.0	6/23/94	M8010	1,1,2-Trichloroethane	< 1	ug/L	
B28b-SG06	5.0	6/23/94	M8010	1,1-Dichloroethane	< 1	ug/L	
B28b-SG06	5.0	6/23/94	M8010	1,1-Dichloroethene	< 1	ug/L	
B28b-SG06	5.0	6/23/94	M8010	Carbon Tetrachloride	< 1	ug/L	
B28b-SG06	5.0	6/23/94	M8010	Chloroform	< 1	ug/L	
B28b-SG06	5.0	6/23/94	M8010	cis-1,2-Dichloroethene	< 1	ug/L	
B28b-SG06	5.0	6/23/94	M8010	Methylene Chloride	< 1	ug/L	
B28b-SG06	5.0	6/23/94	M8010	Tetrachloroethene	< 1	ug/L	
B28b-SG06	5.0	6/23/94	M8010	trans-1,2-Dichloroethene	< 1	ug/L	
B28b-SG06	5.0	6/23/94	M8010	Trichloroethene	< 1	ug/L	
B28b-SG06	5.0	6/23/94	M8020	Benzene	< 1	ug/L	
B28b-SG06	5.0	6/23/94	M8020	Ethylbenzene	< 1	ug/L	
B28b-SG06	5.0	6/23/94	M8020	Toluene	< 1	ug/L	
B28b-SG06	5.0	6/23/94	M8020	Total FID Volatiles	< 10	ug/L	
B28b-SG06	5.0	6/23/94	M8020	Total Xylene Isomers	< 1	ug/L	
B28b-SG07	5.0	6/23/94	M8010	1,1,1-Trichloroethane	< 1	ug/L	
B28b-SG07	5.0	6/23/94	M8010	1,1,2-Trichloroethane	< 1	ug/L	
B28b-SG07	5.0	6/23/94	M8010	1,1-Dichloroethane	< 1	ug/L	
B28b-SG07	5.0	6/23/94	M8010	1,1-Dichloroethene	< 1	ug/L	
B28b-SG07	5.0	6/23/94	M8010	Carbon Tetrachloride	< 1	ug/L	
B28b-SG07	5.0	6/23/94	M8010	Chloroform	< 1	ug/L	
B28b-SG07	5.0	6/23/94	M8010	cis-1,2-Dichloroethene	< 1	ug/L	
B28b-SG07	5.0	6/23/94	M8010	Methylene Chloride	< 1	ug/L	
B28b-SG07	5.0	6/23/94	M8010	Tetrachloroethene	< 1	ug/L	
B28b-SG07	5.0	6/23/94	M8010	trans-1,2-Dichloroethene	< 1	ug/L	
B28b-SG07	5.0	6/23/94	M8010	Trichloroethene	< 1	ug/L	
B28b-SG07	5.0	6/23/94	M8020	Benzene	< 1	ug/L	
B28b-SG07	5.0	6/23/94	M8020	Ethylbenzene	< 1	ug/L	
B28b-SG07	5.0	6/23/94	M8020	Toluene	< 1	ug/L	
B28b-SG07	5.0	6/23/94	M8020	Total FID Volatiles	< 10	ug/L	
B28b-SG07	5.0	6/23/94	M8020	Total Xylene Isomers	< 1	ug/L	

Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
B28b-SG08	5.0	6/23/94	M8010	1,1,1-Trichloroethane	< 1	ug/L	
B28b-SG08	5.0	6/23/94	M8010	1,1,2-Trichloroethane	< 1	ug/L	
B28b-SG08	5.0	6/23/94	M8010	1,1-Dichloroethane	< 1	ug/L	
B28b-SG08	5.0	6/23/94	M8010	1,1-Dichloroethene	< 1	ug/L	
B28b-SG08	5.0	6/23/94	M8010	Carbon Tetrachloride	< 1	ug/L	
B28b-SG08	5.0	6/23/94	M8010	Chloroform	< 1	ug/L	
B28b-SG08	5.0	6/23/94	M8010	cis-1,2-Dichloroethene	< 1	ug/L	
B28b-SG08	5.0	6/23/94	M8010	Methylene Chloride	< 1	ug/L	
B28b-SG08	5.0	6/23/94	M8010	Tetrachloroethene	< 1	ug/L	
B28b-SG08	5.0	6/23/94	M8010	trans-1,2-Dichloroethene	< 1	ug/L	
B28b-SG08	5.0	6/23/94	M8010	Trichloroethene	< 1	ug/L	
B28b-SG08	5.0	6/23/94	M8020	Benzene	< 1	ug/L	
B28b-SG08	5.0	6/23/94	M8020	Ethylbenzene	< 1	ug/L	
B28b-SG08	5.0	6/23/94	M8020	Toluene	< 1	ug/L	
B28b-SG08	5.0	6/23/94	M8020	Total FID Volatiles	< 10	ug/L	
B28b-SG08	5.0	6/23/94	M8020	Total Xylene Isomers	< 1	ug/L	
B28b-SG09	5.0	6/23/94	M8010	1,1,1-Trichloroethane	< 1	ug/L	
B28b-SG09	5.0	6/23/94	M8010	1,1,2-Trichloroethane	< 1	ug/L	
B28b-SG09	5.0	6/23/94	M8010	1,1-Dichloroethane	< 1	ug/L	
B28b-SG09	5.0	6/23/94	M8010	1,1-Dichloroethene	< 1	ug/L	
B28b-SG09	5.0	6/23/94	M8010	Carbon Tetrachloride	< 1	ug/L	
B28b-SG09	5.0	6/23/94	M8010	Chloroform	< 1	ug/L	
B28b-SG09	5.0	6/23/94	M8010	cis-1,2-Dichloroethene	< 1	ug/L	
B28b-SG09	5.0	6/23/94	M8010	Methylene Chloride	< 1	ug/L	
B28b-SG09	5.0	6/23/94	M8010	Tetrachloroethene	< 1	ug/L	
B28b-SG09	5.0	6/23/94	M8010	trans-1,2-Dichloroethene	< 1	ug/L	
B28b-SG09	5.0	6/23/94	M8010	Trichloroethene	< 1	ug/L	
B28b-SG09	5.0	6/23/94	M8020	Benzene	< 1	ug/L	
B28b-SG09	5.0	6/23/94	M8020	Ethylbenzene	< 1	ug/L	
B28b-SG09	5.0	6/23/94	M8020	Toluene	< 1	ug/L	
B28b-SG09	5.0	6/23/94	M8020	Total FID Volatiles	< 10	ug/L	
B28b-SG09	5.0	6/23/94	M8020	Total Xylene Isomers	< 1	ug/L	
B28b-SG10	5.0	6/23/94	M8010	1,1,1-Trichloroethane	< 1	ug/L	
B28b-SG10	5.0	6/23/94	M8010	1,1,2-Trichloroethane	< 1	ug/L	
B28b-SG10	5.0	6/23/94	M8010	1,1-Dichloroethane	< 1	ug/L	
B28b-SG10	5.0	6/23/94	M8010	1,1-Dichloroethene	< 1	ug/L	
B28b-SG10	5.0	6/23/94	M8010	Carbon Tetrachloride	< 1	ug/L	
B28b-SG10	5.0	6/23/94	M8010	Chloroform	< 1	ug/L	
B28b-SG10	5.0	6/23/94	M8010	cis-1,2-Dichloroethene	< 1	ug/L	
B28b-SG10	5.0	6/23/94	M8010	Methylene Chloride	< 1	ug/L	
B28b-SG10	5.0	6/23/94	M8010	Tetrachloroethene	< 1	ug/L	
B28b-SG10	5.0	6/23/94	M8010	trans-1,2-Dichloroethene	< 1	ug/L	

Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
B28b-SG10	5.0	6/23/94	M8010	Trichloroethene	< 1	ug/L	
B28b-SG10	5.0	6/23/94	M8020	Benzene	< 1	ug/L	
B28b-SG10	5.0	6/23/94	M8020	Ethylbenzene	< 1	ug/L	
B28b-SG10	5.0	6/23/94	M8020	Toluene	< 1	ug/L	
B28b-SG10	5.0	6/23/94	M8020	Total FID Volatiles	< 10	ug/L	
B28b-SG10	5.0	6/23/94	M8020	Total Xylene Isomers	< 1	ug/L	
B28b-SS01-1-RS	1.0-1.25	7/15/94	8090M	1,3,5-Trinitrobenzene	< 1000	ug/kg	R
B28b-SS01-1-RS	1.0-1.25	7/15/94	8090M	1,3-Dinitrobenzene	< 250	ug/kg	
B28b-SS01-1-RS	1.0-1.25	7/15/94	8090M	2,4,6-Trinitrotoluene	< 1000	ug/kg	
B28b-SS01-1-RS	1.0-1.25	7/15/94	8090M	2,4-Dinitrotoluene	< 1000	ug/kg	
B28b-SS01-1-RS	1.0-1.25	7/15/94	8090M	2,6-Dinitrotoluene	< 1000	ug/kg	
B28b-SS01-1-RS	1.0-1.25	7/15/94	8090M	2-Nitrotoluene	< 1000	ug/kg	
B28b-SS01-1-RS	1.0-1.25	7/15/94	8090M	3-Nitrotoluene	< 1000	ug/kg	
B28b-SS01-1-RS	1.0-1.25	7/15/94	8090M	4-Nitrotoluene	< 1000	ug/kg	
B28b-SS01-1-RS	1.0-1.25	7/15/94	8090M	Nitrobenzene	< 1000	ug/kg	
B28b-SS01-1-RS	1.0-1.25	7/15/94	8090M	RDX	< 50000	ug/kg	R
B28b-SS01-1-RS	1.0-1.25	7/15/94	8090M	Tetryl	< 50000	ug/kg	
B28b-SS02-1-RS	1.0-1.25	7/15/94	8090M	1,3,5-Trinitrobenzene	< 1000	ug/kg	R
B28b-SS02-1-RS	1.0-1.25	7/15/94	8090M	1,3-Dinitrobenzene	< 250	ug/kg	
B28b-SS02-1-RS	1.0-1.25	7/15/94	8090M	2,4,6-Trinitrotoluene	< 1000	ug/kg	
B28b-SS02-1-RS	1.0-1.25	7/15/94	8090M	2,4-Dinitrotoluene	< 1000	ug/kg	
B28b-SS02-1-RS	1.0-1.25	7/15/94	8090M	2,6-Dinitrotoluene	< 1000	ug/kg	
B28b-SS02-1-RS	1.0-1.25	7/15/94	8090M	2-Nitrotoluene	< 1000	ug/kg	
B28b-SS02-1-RS	1.0-1.25	7/15/94	8090M	3-Nitrotoluene	< 1000	ug/kg	
B28b-SS02-1-RS	1.0-1.25	7/15/94	8090M	4-Nitrotoluene	< 1000	ug/kg	
B28b-SS02-1-RS	1.0-1.25	7/15/94	8090M	Nitrobenzene	< 1000	ug/kg	
B28b-SS02-1-RS	1.0-1.25	7/15/94	8090M	RDX	< 50000	ug/kg	R
B28b-SS02-1-RS	1.0-1.25	7/15/94	8090M	Tetryl	< 50000	ug/kg	
B28b-SS03-0-S	0-0.25	7/9/94	8090M	1,3,5-Trinitrobenzene	< 1000	ug/kg	R
B28b-SS03-0-S	0-0.25	7/9/94	8090M	1,3-Dinitrobenzene	< 250	ug/kg	
B28b-SS03-0-S	0-0.25	7/9/94	8090M	2,4,6-Trinitrotoluene	< 1000	ug/kg	
B28b-SS03-0-S	0-0.25	7/9/94	8090M	2,4-Dinitrotoluene	< 1000	ug/kg	
B28b-SS03-0-S	0-0.25	7/9/94	8090M	2,6-Dinitrotoluene	< 1000	ug/kg	
B28b-SS03-0-S	0-0.25	7/9/94	8090M	2-Nitrotoluene	< 1000	ug/kg	
B28b-SS03-0-S	0-0.25	7/9/94	8090M	3-Nitrotoluene	< 1000	ug/kg	
B28b-SS03-0-S	0-0.25	7/9/94	8090M	4-Nitrotoluene	< 1000	ug/kg	
B28b-SS03-0-S	0-0.25	7/9/94	8090M	Nitrobenzene	< 1000	ug/kg	
B28b-SS03-0-S	0-0.25	7/9/94	8090M	RDX	< 50000	ug/kg	R
B28b-SS03-0-S	0-0.25	7/9/94	8090M	Tetryl	< 50000	ug/kg	
B28b-SS03-1-S	1.0-1.25	7/9/94	8090M	1,3,5-Trinitrobenzene	< 1000	ug/kg	R
B28b-SS03-1-S	1.0-1.25	7/9/94	8090M	1,3-Dinitrobenzene	< 250	ug/kg	

Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
B28b-SS03-1-S	1.0-1.25	7/9/94	8090M	2,4,6-Trinitrotoluene	< 1000	ug/kg	
B28b-SS03-1-S	1.0-1.25	7/9/94	8090M	2,4-Dinitrotoluene	< 1000	ug/kg	
B28b-SS03-1-S	1.0-1.25	7/9/94	8090M	2,6-Dinitrotoluene	< 1000	ug/kg	
B28b-SS03-1-S	1.0-1.25	7/9/94	8090M	2-Nitrotoluene	< 1000	ug/kg	
B28b-SS03-1-S	1.0-1.25	7/9/94	8090M	3-Nitrotoluene	< 1000	ug/kg	
B28b-SS03-1-S	1.0-1.25	7/9/94	8090M	4-Nitrotoluene	< 1000	ug/kg	
B28b-SS03-1-S	1.0-1.25	7/9/94	8090M	Nitrobenzene	< 1000	ug/kg	
B28b-SS03-1-S	1.0-1.25	7/9/94	8090M	RDX	< 50000	ug/kg	R
B28b-SS03-1-S	1.0-1.25	7/9/94	8090M	Tetryl	< 50000	ug/kg	

Appendix C

Survey Data at SWMU B-28b
Hawthorne Army Depot
Hawthorne, Nevada

Point Name	Northing	Easting
B28BREF50	1393891.44	490883.65
SB-1	1393804.73	491131.32
SB-2	1393858.58	491065.3
SG-1	1393834.62	491064.72
SG-10	1393849.2	491094.1
SG-2	1393865.49	491076.52
SG-3	1393865.92	491104.47
SG-4	1393825.86	491117.03
SG-5	1393796.23	491127.55
SG-6	1393775.49	491143.35
SG-7	1393762.11	491163.87
SG-8	1393857.39	491088.66
SG-9	1393851.34	491081.7
SS-1	1393856.43	491084.02
SS-2	1393850.99	491079.11
SS-3	1393846.61	491091.87

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

Appendix D

SWMU B-28b 108-20b
Ethylene Oxide Impound