Decision Document

Solid Waste Management Units I03/I04
Building 104-7 Catchment Pits
Hawthorne Army Depot
Hawthorne, Nevada

September 1999

Hawthorne Army Depot

US Army Corps of Engineers

Decision Document SWMU I-03/I-04

September 1999

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

U. S. Army

21 OCT 1999

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

State of Nevada

22 Nov 99

Paul Liebendorfer
Chief, Bureau of Federal Facilities

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Decision Document
SWMU I-03/-4, Building 104-7 Catchment Pits
Hawthorne Army Depot
Hawthorne, Nevada

1.0 Introduction:

This decision document describes the rationale for the proposed closure of SWMU I-03/04, Building 104-7 Catchment pits, at the Hawthorne Army Depot (HWAD), Hawthorne, Nevada. This document was prepared by the U.S. Army Corps of Engineers, Sacramento District, HWAD and the Nevada Department of Environmental Protection (NDEP).

Tetra Tech, Inc. (Tt), was tasked by the US Army Corps of Engineers, Sacramento District (USACE), to perform remedial investigations and ground water monitoring at the Hawthorne Army Depot (HWAD), Hawthorne, Nevada. These tasks were conducted from 1993 through 1997, primarily at solid waste management units (SWMUs) designated by the Army and the Nevada Division of Environmental Protection (NDEP). The NDEP is the lead regulatory agency for environmental issues at HWAD. The purpose of the monitoring was to determine the extent and degree of environmental impacts, if any, associated with activities performed at each SWMU. The primary goal of the investigation was to assess the environmental impacts and to report the findings, present conclusions, and recommend any remediation, if necessary.

With guidance from the NDEP, basewide proposed closure goals (PCGs) for soil were established as acceptable levels so that SWMU closure could be recommended and to assist in directing the investigative efforts toward those SWMUs where the target analytes were of greatest concern (Appendix B). These PCGs were used as action levels throughout this investigation and are used for comparison with the detected analytes in this report.

2.0 Site History

SWMU I03/04 is in the southern portion of the HWAD's central magazine area, approximately 1,600 feet north of US Highway 95 and approximately 5,000 feet east of the city limits of Hawthorne (Figure 1-1). This SWMU is the site of two former unlined catchment pits northwest of Building 104-7 that were identified on aerial photographs taken in 1980 (EMSL 1981). There is currently no surface evidence of these pits, because the site was washed out during a flash flood in 1991. The USACE, HWAD, and the NDEP agreed to define the boundaries of each SWMU using annotated monuments and survey pins. As part of Tt's 1997 field investigation, a survey monument was constructed and surveyed at SWMU I03/04. A brass survey pin on the monument designates the monument number HWAAP-41-1996 and the SWMU number I03/04.

Two corner pins were set and surveyed to define the SWMU boundary, with the monument as the north corner. The area of the SWMU does not include Building 104-7. The location of these corner markers and the SWMU boundary are shown on Figure 1-2. The survey data for SWMU I03/04 is presented in AppendixA.

3.0 Site Conditions

SWMU I03/04 is mostly devoid of vegetation, apparently from the flood that washed out the area in 1991. There are a few steeply banked drainage channels where the surface consists of sandy and gravelly terrain. No surface evidence was observed that would determine the locations of the two former catchment pits. Soils encountered during Tt's investigation included sand and silt to a depth of 78 feet bgs, with some intermittent layers of gravel and clayey sand. The observations made during the excavations did not reveal the locations of the former catchment pits. An orange layer of soil was observed at a depth of five feet bgs in trench TR01, but no other objects or changes in soil types were observed as the sources of the geophysical anomalies. Using the calculated ground water elevations from the basewide network of monitoring wells; the depth to the shallowest ground water at this SWMU is interpolated to be at a depth of approximately 215 feet bgs.

Based on the reported activities at the adjacent Building 104-7 and the possible releases to the site, the target analytes for the investigations at SWMU I03/04 are metals, explosives (which may have been released for explosives-handling activities), total petroleum hydrocarbons (TPH), and volatile organic compounds (VOCs) as constituents of potential solvent used at Building 104-7.

4.0 INVESTIGATIONS

A site inspection of SWMU I03/04 was conducted by Resource Application, Inc., (RAI) in 1992, previous to this remedial investigation (RAI 1992). During this inspection, no evidence of chemical releases was reported at this SWMU. No investigation activities were conducted during this inspection, and no soil samples were collected from the SWMU at that time. Tt conducted geophysical surveys and a soil gas survey for field reconnaissance and collected surface and subsurface soil samples during the 1994 and 1997 remedial investigations to better define and characterize the extent of any contamination.

Tt's field screening activities during the 1994 and 1997 remedial investigations included geophysical surveys, a soil gas survey, headspace soil sample screening for VOCs in the subsurface soil samples, and explosives and TPH field screening in the surface and subsurface soil samples.During Tt's 1994 remedial investigation of SWMU I03/04, Norcal Geophysical Consultants, Inc., of Petaluma, California, performed surface geophysical surveys. These surveys were conducted at this SWMU to locate subsurface anomalies that may indicate where the former catchment pits were located.

During Tt's 1994 remedial investigation of SWMU I03/04, Target Environmental Services, Inc., (TES) conducted a soil gas survey to screen for VOCs in the near-surface soils. The intent of the soil gas survey was to assess if any areas within the SWMU contained high concentrations of VOCs in the soil gas. All subsurface soil samples were screened using the enzyme immunoassay test kits by USEPA Draft Method 4030 for the semiquantitative analysis of total petroleum hydrocarbons in soil. Eight surface soil samples, including one set of split duplicate samples, were collected. These soil sample locations were selected primarily at areas where surface drainage indicated potential wastewater releases, such as the drain line outfall.

Six sample borings were drilled to total depths from 4.25 feet bgs to ten feet bgs at the boring locations SB01 through SB06 using the CPT sampling technique. Eleven subsurface soil samples, including three collocated duplicate samples, were collected from these borings.

Two trenches (TR01 and TR02) were excavated at SWMU I03/04 to identify and characterize the geophysical anomalies detected that may have been former catchment pits (Figure 3-1). Both of these trenches were 25 feet long. Trench TR01 was excavated to a depth of 14 feet bgs and trench TR02 was excavated to a depth of 10 feet bgs, where native soil was encountered that appeared undisturbed.

5.0 Investigation Results

Appendix C indicated the analyitical results from the investigations, figure 3-1 shows the location of the samples. Of the 19 soil gas samples contained only two detected VOCs. Soil gas sample I03/04-SG11 contained 1 µg/l of air of DCE, and soil gas sample I03/04-SG17 contained 1.8 µg/l of air of total xylene isomers. None of the other VOC analytes were found in any of the soil gas samples collected at SWMU I03/04

The two surface soil samples collected at sample location SS01, I03/04-SS01-1-S and the split duplicate sample I03/04-DP117 contained concentrations of TNT (5.5 mg/kg and 2.65 mg/kg) less than TNT's PCG of 64 mg/kg. None of the other eight surface soil samples contained any of the explosives; therefore, only the surface soils in the vicinity of sample location SS01 appear to have been affected with explosives at concentrations less than their PCGs.

Aluminum (2,170 mg/kg to 5,880 mg/kg), arsenic (1 mg/kg to 6.8 mg/kg), barium (31.5 mg/kg to 85 mg/kg), total chromium (1.3 mg/kg to 4.9 mg/kg), and lead (2.1 mg/kg to 5 mg/kg) were found in all of the nine subsurface soil samples collected from the two trenches at this SWMU at concentrations less than their respective maximum expected background concentrations and less than their respective PCGs. No explosives, TPH concentrations, or VOCs were found in any of the subsurface soil samples collected from the trenches at SWMU I03/04; therefore, the subsurface soils at this SWMU I03/04 in the vicinity of the trenches do not appear to be affected by explosives, TPH, or VOCs

6.0 Remediation

No remediation action was required for this site

7.0 Remediation Results

Not applicable

8.0 Public Involvement:

It is the 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 and maintains a repository library at the local public library. This repository includes final copies of all past studies and other documents regarding environmental issues at HWAD. As future environmental documents are made available to HWAD the repository shall be updated.

HWAD has solicited community participation in establishment of a restoration and advisory board (RAB). To date there has been insufficient response and HWAD has not formed a RAB. HWAD has held open houses to inform the public of on going environmental issues. HWAD continues to solicit community involvement, and will establish a RAB should sufficient community interest be obtained.

8.0 Conclusions and Recommendations

There is no evidence of any of the chemicals of concern at SWMUI03/04 above PCG's.. SWMU I03/04 is recommended to the NDEP for site closure without land use restrictions.

10.0 REFERENCES

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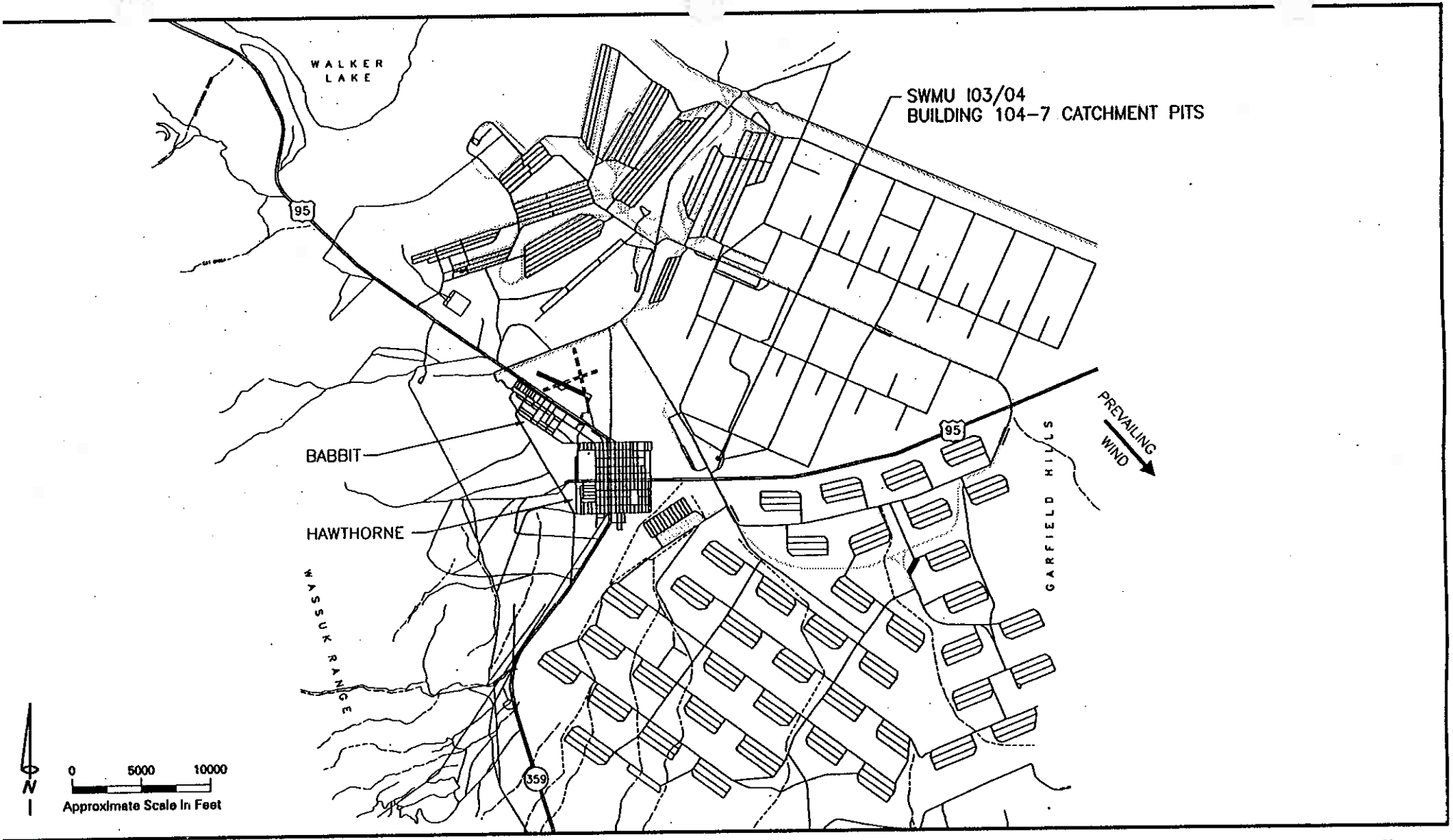


SOURCE: TETRA TECH FINAL DATA PACKAGE, 1996 (REV. 1997)

Site Location Map
SWMU 103/04
Building 104-7 Catchment Pits
Hawthorne Army Depot
Hawthorne, Nevada
Figure 1-1

Tetra Tech, Inc.

Legend:

- SWMU Monument
- Boundary Corner Pin
- Fence
- Railroad

N

0 60 120

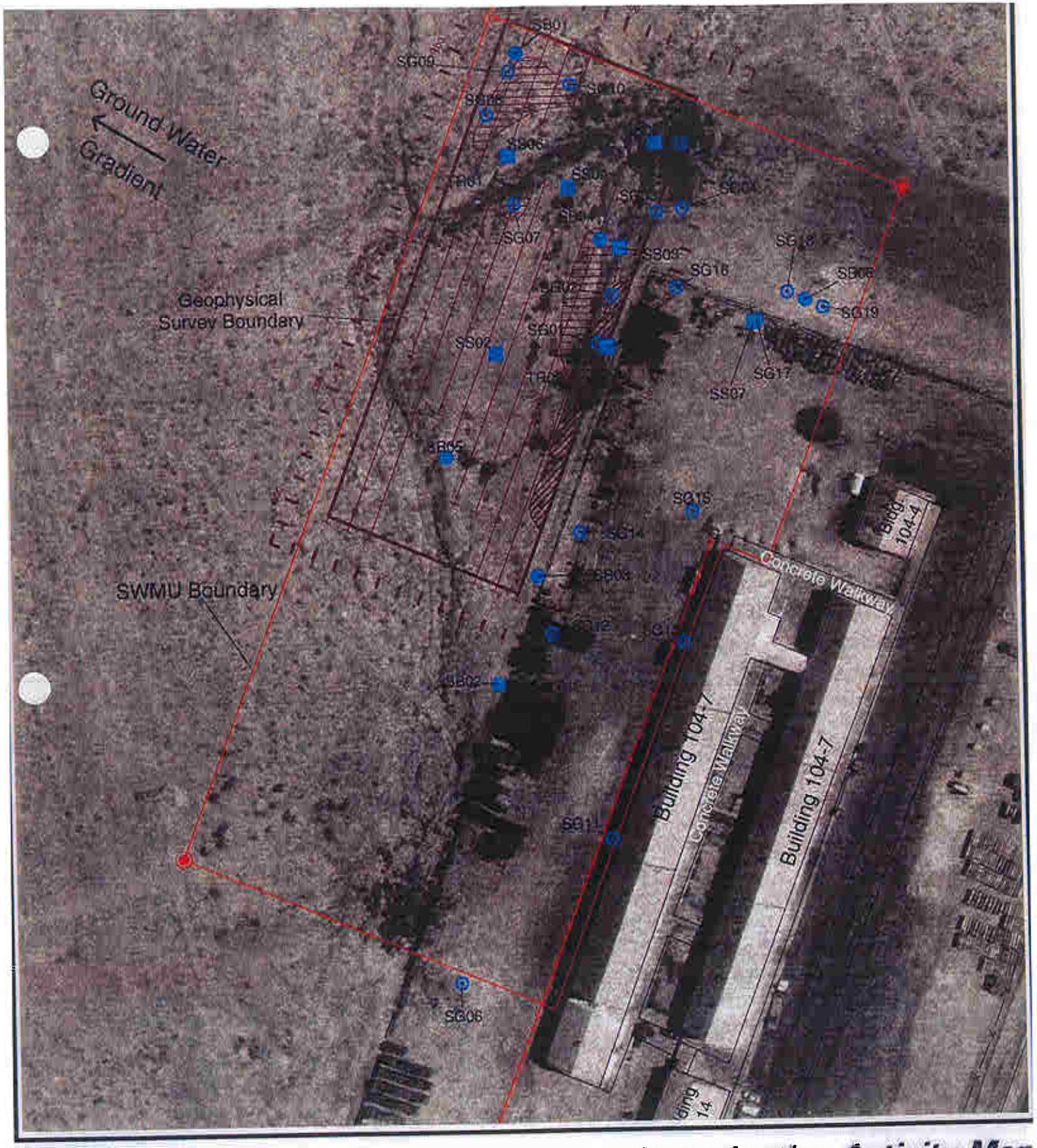
Approximate Scale in feet

Tetra Tech, Inc.

Site Map
SWMU I03/04
NUWES 104-7 Pits

Hawthorne Army Depot
Hawthorne, Nevada

Figure 1-2



Legend:

- SWMU Monument
- MAG Anomaly
- Boundary Corner Pin
- EMAG Anomaly
- Surface Soil Sample
- Trench Location
- Soil Boring Location
- Fence
- Railroad
- SGPR Anomaly
- Soil Gas Location
- SGPR Traverse

0 60 120
Approximate Scale in feet

N

Investigation Activity Map
SWMU I03/04
Building 104-7 Pits

Hawthorne Army Depot
Hawthorne, Nevada

Figure 3-1

Tetra Tech, Inc.

Appendix A

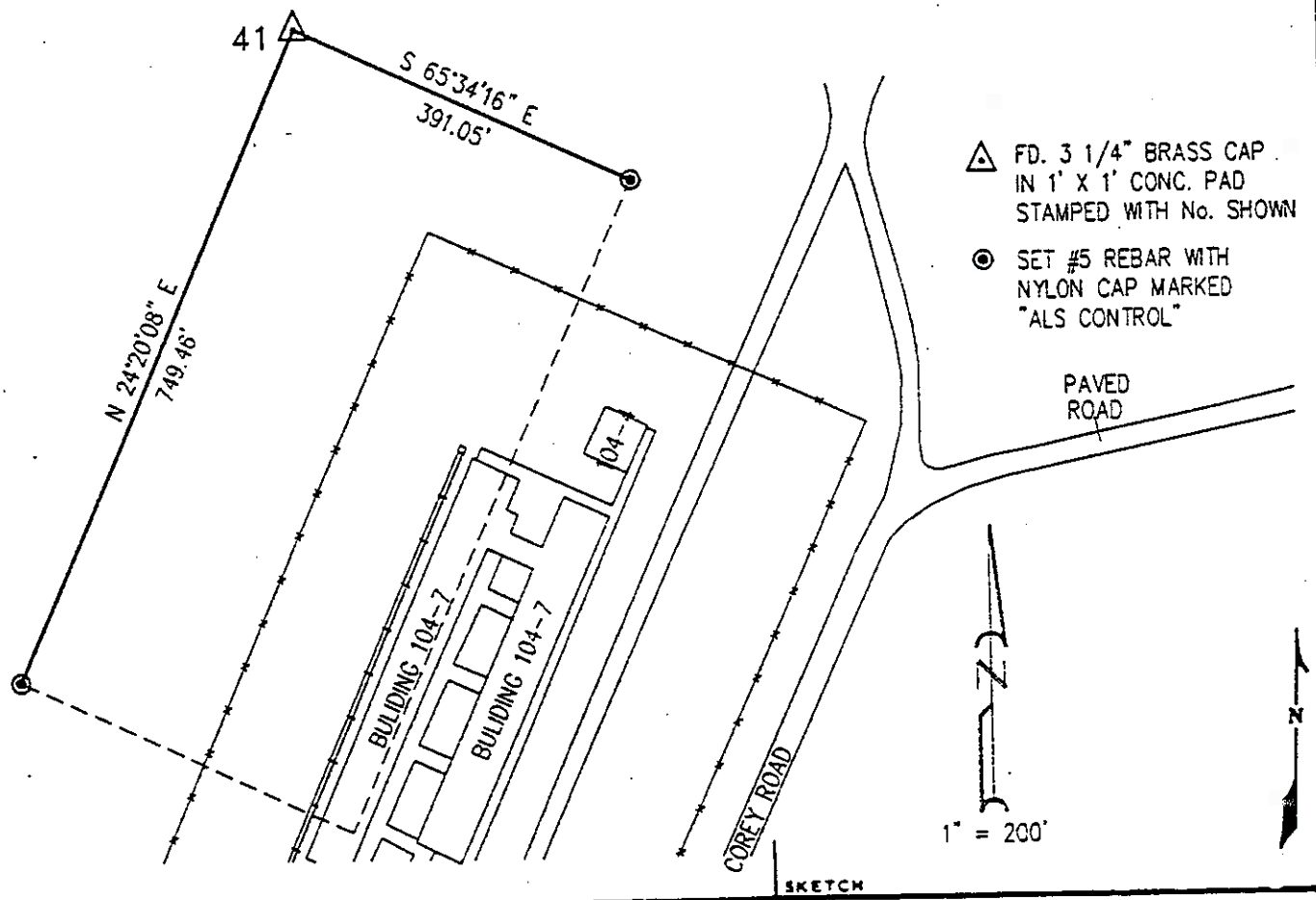
COUNTRY	TYPE OF MARK	STATION	
USA	BRASS CAP	41	
LOCALITY: HAWTHORNE NEV.	STAMPING ON MARK: 41 I-3/4	AGENCY (CAST IN MARKS): COE HWAAP	ELEVATION (FT) (M): 4306.41
LATITUDE: 38°31'48.14743" N	LONGITUDE: 118°35'49.08786" W	DATUM: NAD '27	DATUM: NGVD '29
(NORTHING)(EASTING) (FT) (M): 1376057.15	(EASTING)(NORTHING) (FT) (M): 496099.48	GRID AND ZONE: NEVADA SP WEST	ESTABLISHED BY (AGENCY): A.L.S.
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE: 1997 ORDER: 2ND

TO OBTAIN GRID AZIMUTH, ADD ° ' " TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ' " TO THE GEODETIC AZIMUTH

OBJECT	AZIMUTH OR DIRECTION (GEODETIC)(GRID) (MAGNETIC)	BACK AZIMUTH	GEOD. DISTANCE (METERS) (FEET)	GRID DISTANCE (METERS) (FEET)
	° ' "	° ' "		

MONUMENT 41 – SWMU I-3/4
FROM HIGHWAY 95 TAKE MINE ROAD NORTHWEST 600 FEET TO A ROAD, THEN NORTHEAST 1000 FEET TO BUILDING 104-7. SEE MAP BELOW. MONUMENT IS A 3 1/4" BRASS CAP SET IN A 1' X 1' CONCRETE PAD AND IS MARKED WITH A 4" X 4" X 6' WOOD POST, PAINTED WHITE.



SKETCH

DA FORM 1 OCT 84 1959 REPLACES DA FORMS 1959 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION
For use of this form, see TM 5-237; the proponent agency is TRADOC.

SWMU I03/04 Survey Data
Hawthorne Army Depot
Hawthorne, Nevada

SWMU	Point ID	Northing (feet)	Easting (feet)	Elevation
I03/04	HWAAP-41-1996	1376057.15	496099.48	4306.41
I03/04	Pin 1	1375895.42	496455.52	NE
I03/04	Pin 2	1375374.28	495790.64	NE
I03/04	SB01	1376024.31	496119.71	NE
I03/04	SB02	1375505.30	496075.34	NE
I03/04	SB03	1375592.93	496115.24	NE
I03/04	SB04	1375867.48	496185.91	NE
I03/04	SB05	1375695.60	496039.91	NE
I03/04	SB06	1375808.04	496363.99	NE
I03/04	SG01	1375750.02	496157.27	NE
I03/04	SG02	1375821.27	496193.93	NE
I03/04	SG03	1375887.62	496236.80	NE
I03/04	SG04	1375888.87	496259.40	NE
I03/04	SG05	1375942.08	496261.36	NE
I03/04	SG06	1375258.97	496029.17	NE
I03/04	SG07	1375900.42	496111.51	NE
I03/04	SG08	1375975.14	496091.14	NE
I03/04	SG09	1376009.50	496111.82	NE
I03/04	SG10	1375996.12	496166.14	NE
I03/04	SG11	1375371.02	496169.43	NE
I03/04	SG12	1375544.49	496125.78	NE
I03/04	SG13	1375530.56	496241.36	NE
I03/04	SG14	1375626.79	496154.71	NE
I03/04	SG15	1375639.04	496254.64	NE
I03/04	SG16	1375824.48	496250.89	NE
I03/04	SG17	1375793.48	496320.28	NE
I03/04	SG18	1375815.03	496348.49	NE
I03/04	SG19	1375801.06	496379.49	NE
I03/04	SS01	1375778.78	496187.73	NE
I03/04	SS02	1375801.47	496088.74	NE
I03/04	SS03	1375859.50	496202.28	NE
I03/04	SS04	1375911.44	496160.17	NE
I03/04	SS05	1375944.16	496237.69	NE
I03/04	SS06	1375940.59	496108.25	NE
I03/04	SS07	1375791.74	496317.39	NE
I03/04	TR01	1375922.41	496095.38	NE
I03/04		1375912.83	496117.07	NE
I03/04	TR02	1375769.67	496160.45	NE
I03/04		1375750.02	496151.89	NE

Notes:
NE = Not established.
Coordinate data based on electronic map file using the NAD 1927 datum.
Elevation data based on surveyors map using NGVD 1929 datum.

Appendix B

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[a]
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 C

Metals
Method 6010A (APCL)

Sample ID	Location ID	Sample Date	Depth (feet)	Lab	Aluminum, Total	Arsenic, Total	Barium, Total	Beryllium, Total	Cadmium, Total	Chromium, Total	Lead, Total	Nickel, Total	Selenium, Total	Silver, Total
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
I03/04-TR01-1-S	TR01	2/26/97	10	APCL	5880	1	85	<0.018	<0.021	4.9	4	NA	<0.19	<0.074
I03/04-TR01-2-S	TR01	2/26/97	10	APCL	4250	1.1	61	<0.018	<0.021	3.5	2.9	NA	<0.19	<0.072
I03/04-TR01-3-S	TR01	2/26/97	17	APCL	3310	6.8	31.5	<0.018	<0.021	2.2	2.9	NA	<0.19	<0.071
I03/04-TR01-4-S	TR01	3/1/97	4	APCL	3770	2	46.6	<0.018	<0.021	2.6	3.4 J+	NA	<0.19	<0.073
I03/04-TR01-5-S	TR01	3/1/97	7	APCL	4210	1	67.2	<0.018	<0.021	4.5	4.3 J+	NA	<0.19	<0.072
I03/04-TR02-1-S	TR02	3/1/97	6	APCL	4790	3.7	39.2	<0.018	<0.022	2.1	2.4 J+	NA	<0.2	<0.075
I03/04-TR02-2-S	TR02	3/1/97	11	APCL	2170	3.3	36.3	<0.018	<0.021	1.3	2.1 J+	NA	<0.19	<0.072
I03/04-TR02-3-S	TR02	3/1/97	6	APCL	4910	6	62.1	<0.018	<0.022	3	5	NA	<0.19	<0.075
I03/04-TR02-4-S	TR02	3/1/97	11	APCL	3710	2.5	47.5	<0.017	<0.021	2	3.7	NA	<0.18	<0.071
Analyses					9	9	9	9	9	9	9	0	9	9
Detections					9	9	9	0	0	9	9	0	0	0
Minimum Concentration					2170	1	31.5	0	0	1.3	2.1	0	0	0
Maximum Concentration					5880	6.8	85	0	0	4.9	5	0	0	0
HWAD - PCG					80000	100	2000	1	20	20	100	NE	20	100
HWAD - PCG Hits					0	0	0	0	0	0	0	NE	0	0
Maximum Background Concentration					12365	18.1	447	0.58	1.08	13.76	16.7	0	0	0
Background Hits					0	0	0	0	0	0	0	0	0	0

Notes:
NA = Not analyzed.
NE = Not established.

Mercury
Method 7471A (APCL)

Sample ID	Location ID	Sample Date	Depth (feet)	Lab	Mercury, Total
					mg/kg
I03/04-TR01-1-S	TR01	2/26/97	10	APCL	<0.073
I03/04-TR01-2-S	TR01	2/26/97	10	APCL	<0.071
I03/04-TR01-3-S	TR01	2/26/97	17	APCL	<0.07
I03/04-TR01-4-S	TR01	3/1/97	4	APCL	<0.072
I03/04-TR01-5-S	TR01	3/1/97	7	APCL	<0.071
I03/04-TR02-1-S	TR02	3/1/97	6	APCL	<0.074
I03/04-TR02-2-S	TR02	3/1/97	11	APCL	<0.07
I03/04-TR02-3-S	TR02	3/1/97	6	APCL	<0.073
I03/04-TR02-4-S	TR02	3/1/97	11	APCL	<0.07

Analyses	9
Detections	0
Minimum Concentration	0
Maximum Concentration	0
HWAD - PCG	24
HWAD - PCG Hits	0
Maximum Background Concentration	0.108
Background Hits	0

Notes:
NA = Not analyzed.
NE = Not established.

TPH
Method 8015M (BCA Field)

Sample ID	Location ID	Sample Date	Depth (feet)	Lab	TPH (as diesel) mg/kg
I03/04-SB01-1-S	SB01	8/13/94	4	BCA Field	<0.2
I03/04-SB01-2-S	SB01	8/13/94	8.5	BCA Field	<0.2
I03/04-SB02-1-S	SB02	8/13/94	10	BCA Field	<0.2
I03/04-SB03-1-S	SB03	8/13/94	4	BCA Field	<0.2
I03/04-SB04-1-S	SB04	8/13/94	4	BCA Field	<0.2
I03/04-DP187	SB04	8/13/94	4	BCA Field	<0.2
I03/04-SB05-1-S	SB05	8/13/94	4	BCA Field	<0.2
I03/04-SB06-1-S	SB06	8/13/94	4	BCA Field	<0.2
I03/04-SB06-2-S	SB06	8/13/94	7.5	BCA Field	<0.2
I03/04-SS01-1-S	SS01	7/20/94	0	BCA Field	33
I03/04-DP118	SS01	7/20/94	0	BCA Field	16
I03/04-SS02-1-S	SS02	7/20/94	0	BCA Field	<0.2
I03/04-SS03-1-S	SS03	7/20/94	0	BCA Field	<0.2
I03/04-SS04-1-S	SS04	7/20/94	0	BCA Field	<0.2
I03/04-SS05-1-S	SS05	7/20/94	0	BCA Field	<0.2
I03/04-SS06-1-S	SS06	7/20/94	0	BCA Field	<0.2
I03/04-SS07-1-S	SS07	7/20/94	0	BCA Field	<0.2
Analyses					17
Detections					2
Minimum Concentration					16
Maximum Concentration					33
HWAD - PCG					100
HWAD - PCG Hits					0

Notes:
NA = Not analyzed.
NE = Not established.

TPH
Method 8015ME (APCL)

Sample ID	Location ID	Sample Date	Depth (feet)	Lab	C11-C22 (Diesel)	C23-C30 (Motor oil)	C31-C40 (Heavy oil)	C8-C10 (Gasoline)	Diesel Fuel
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
I03/04-TR01-1-S	TR01	2/26/97	10	APCL	<0.86	<0.39	<0.3	<0.16	NA
I03/04-TR02-3-S	TR02	3/1/97	6	APCL	<0.87	<0.4	<0.3	<0.16	NA
Analyses					2	2	2	2	0
Detections					0	0	0	0	0
Minimum Concentration					0	0	0	0	0
Maximum Concentration					0	0	0	0	0
HWAD - PCG					100	100	100	100	100
HWAD - PCG Hits					0	0	0	0	0

Notes:
NA = Not analyzed.
NE = Not established.

Explosives
Method 8090M (BCA Field)

Sample ID	Location ID	Sample Date	Depth (feet)	Lab	1,3,5-Trinitrobenzene mg/kg	1,3-Dinitrobenzene mg/kg	2,3-Dinitrotoluene mg/kg	2,4,6-Trinitrotoluene mg/kg	2,4-Dinitrotoluene mg/kg	2,6-Dinitrotoluene mg/kg	2-Nitrotoluene mg/kg	3-Nitrotoluene mg/kg	4-Nitrotoluene mg/kg	Nitrobenzene mg/kg	RDX mg/kg	Tetryl mg/kg
I03/04-SB01-1-S	SB01	8/13/94	4	BCA Field	<0.5 UJ-	<0.25	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<50 R	<0.25
I03/04-SB01-2-S	SB01	8/13/94	8.5	BCA Field	<0.5 UJ-	<0.25	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<50 R	<0.25
I03/04-SB02-1-S	SB02	8/13/94	10	BCA Field	<0.5 UJ-	<0.25	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<50 R	<0.25
I03/04-SB03-1-S	SB03	8/13/94	4	BCA Field	<0.5 UJ-	<0.25	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<50 R	<0.25
I03/04-SB04-1-S	SB04	8/13/94	4	BCA Field	<0.5 UJ-	<0.25	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<50 R	<0.25
I03/04-DP187	SB04	8/13/94	4	BCA Field	<0.5 UJ-	<0.25	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<50 R	<0.25
I03/04-SB05-1-S	SB05	8/13/94	4	BCA Field	<0.5 UJ-	<0.25	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<50 R	<0.25
I03/04-SB06-1-S	SB06	8/13/94	4	BCA Field	<0.5 UJ-	<0.25	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<50 R	<0.25
I03/04-SB06-2-S	SB06	8/13/94	7.5	BCA Field	<0.5 UJ-	<0.25	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25 R	<50
I03/04-SS01-1-S	SS01	7/20/94	0	BCA Field	<0.5 UJ-	<0.25	NA	5.5	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25 R	<50
I03/04-DP117	SS01	7/20/94	0	BCA Field	<0.5 UJ-	<0.25	NA	2.6478	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<50 R	<0.25
I03/04-SS02-1-S	SS02	7/20/94	0	BCA Field	<0.5 UJ-	<0.25	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<50 R	<0.25
I03/04-SS03-1-S	SS03	7/20/94	0	BCA Field	<0.5 UJ-	<0.25	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<50 R	<0.25
I03/04-SS04-1-S	SS04	7/20/94	0	BCA Field	<0.5 UJ-	<0.25	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<50 R	<0.25
I03/04-SS05-1-S	SS05	7/20/94	0	BCA Field	<0.5 UJ-	<0.25	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<50 R	<0.25
I03/04-SS06-1-S	SS06	7/20/94	0	BCA Field	<0.5 UJ-	<0.25	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<50 R	<0.25
I03/04-SS07-1-S	SS07	7/20/94	0	BCA Field	<0.5 UJ-	<0.25	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<50 R	<0.25
Analyses					17	17	0	17	17	17	17	17	17	17	17	17
Detections					0	0	0	2	0	0	0	0	0	0	0	0
Minimum Concentration					0	0	0	2.6478	0	0	0	0	0	0	0	0
Maximum Concentration					0	0	0	5.5	0	0	0	0	0	0	0	0
HWAD - PCG					4	8	NE	233	2.6	80	800	800	800	40	64	800
HWAD - PCG Hits					0	0	NE	0	0	0	0	0	0	0	0	0

Notes:
NA = Not analyzed.
NE = Not established.

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VOCs
Method 8260 (BCA)

Sample ID	Location ID	Sample Date	Depth (feet)	Lab	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichloropropane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3-Dichlorobenzene	1,4-Dichlorobenzene
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
I03/04-SB01-1-S	SB01	8/13/94	4	BCA	<0.0004	<0.0006	<0.0002	<0.0004	<0.0002	<0.0002	<0.0008	<0.0002	<0.0006	<0.0008	<0.0002	<0.0004
I03/04-SB01-2-S	SB01	8/13/94	8.5	BCA	<0.0004	<0.0006	<0.0002	<0.0004	<0.0002	<0.0002	<0.0008	<0.0002	<0.0006	<0.0008	<0.0002	<0.0004
I03/04-SB02-1-S	SB02	8/13/94	10	BCA	<0.0004	<0.0006	<0.0002	<0.0004	<0.0002	<0.0002	<0.0008	<0.0002	<0.0006	<0.0008	<0.0002	<0.0004
I03/04-SB03-1-S	SB03	8/13/94	4	BCA	<0.0004	<0.0006	<0.0002	<0.0004	<0.0002	<0.0002	<0.0008	<0.0002	<0.0006	<0.0008	<0.0002	<0.0004
I03/04-DP188	SB03	8/13/94	4	BCA	<0.0004	<0.0006	<0.0002	<0.0004	<0.0002	<0.0002	<0.0008	<0.0002	<0.0006	<0.0008	<0.0002	<0.0004
I03/04-SB04-1-S	SB04	8/13/94	4	BCA	<0.0004	<0.0006	<0.0002	<0.0004	<0.0002	<0.0002	<0.0008	<0.0002	<0.0006	<0.0008	<0.0002	<0.0004
I03/04-SB05-1-S	SB05	8/13/94	4	BCA	<0.0004	<0.0006	<0.0002	<0.0004	<0.0002	<0.0002	<0.0008	<0.0002	<0.0006	<0.0008	<0.0002	<0.0004
I03/04-SB06-1-S	SB06	8/13/94	4	BCA	<0.0004	<0.0006	<0.0002	<0.0004	<0.0002	<0.0002	<0.0008	<0.0002	<0.0006	<0.0008	<0.0002	<0.0004
I03/04-SB06-2-S	SB06	8/13/94	7.5	BCA	<0.0004	<0.0006	<0.0002	<0.0004	<0.0002	<0.0002	<0.0008	<0.0002	<0.0006	<0.0008	<0.0002	<0.0004
Analyses					9	9	9	9	9	9	9	9	9	9	9	9
Detections					0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration					0	0	0	0	0	0	0	0	0	0	0	0
Maximum Concentration					0	0	0	0	0	0	0	0	0	0	0	0
HWAD - PCG					NE	7200	35	NE	NE	NE	480	7200	NE	NE	NE	150
HWAD - PCG Hits					NE	0	0	NE	NE	NE	0	0	NE	NE	NE	0

Notes:
NA = Not analyzed.
NE = Not established.

VOCs
Method 8260 (BCA)

Sample ID	Location ID	Sample Date	Depth (feet)	Lab	2-Chloroethylvinylether	Benzene	Benzyl chloride	Bromobenzene	Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
I03/04-SB01-1-S	SB01	8/13/94	4	BCA	<0.0006	<0.0002	<0.0006	<0.0004	<0.0002	<0.0002	<0.0002	<0.0006	<0.0002	<0.0002	<0.0002
I03/04-SB01-2-S	SB01	8/13/94	8.5	BCA	<0.0006	<0.0002	<0.0006	<0.0004	<0.0002	<0.0002	<0.0002	<0.0006	<0.0002	<0.0002	<0.0002
I03/04-SB02-1-S	SB02	8/13/94	10	BCA	<0.0006	<0.0002	<0.0006	<0.0004	<0.0002	<0.0002	<0.0002	<0.0006	<0.0002	<0.0002	<0.0002
I03/04-SB03-1-S	SB03	8/13/94	4	BCA	<0.0006	<0.0002	<0.0006	<0.0004	<0.0002	<0.0002	<0.0002	<0.0006	<0.0002	<0.0002	<0.0002
I03/04-DP188	SB03	8/13/94	4	BCA	<0.0006	<0.0002	<0.0006	<0.0004	<0.0002	<0.0002	<0.0002	<0.0006	<0.0002	<0.0002	<0.0002
I03/04-SB04-1-S	SB04	8/13/94	4	BCA	<0.0006	<0.0002	<0.0006	<0.0004	<0.0002	<0.0002	<0.0002	<0.0006	<0.0002	<0.0002	<0.0002
I03/04-SB05-1-S	SB05	8/13/94	4	BCA	<0.0006	<0.0002	<0.0006	<0.0004	<0.0002	<0.0002	<0.0002	<0.0006	<0.0002	<0.0002	<0.0002
I03/04-SB06-1-S	SB06	8/13/94	4	BCA	<0.0006	<0.0002	<0.0006	<0.0004	<0.0002	<0.0002	<0.0002	<0.0006	<0.0002	<0.0002	<0.0002
I03/04-SB06-2-S	SB06	8/13/94	7.5	BCA	<0.0006	<0.0002	<0.0006	<0.0004	<0.0002	<0.0002	<0.0002	<0.0006	<0.0002	<0.0002	<0.0002
Analyses					9	9	9	9	9	9	9	9	9	9	9
Detections					0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration					0	0	0	0	0	0	0	0	0	0	0
Maximum Concentration					0	0	0	0	0	0	0	0	0	0	0
HWAD - PCG					NE	10	NE	NE	NE	89	112	10	2000	NE	120
HWAD - PCG Hits					NE	0	NE	NE	NE	0	0	0	0	NE	0

Notes:
NA = Not analyzed.
NE = Not established.

VOCs
Method 8260 (BCA)

Sample ID	Location ID	Sample Date	Depth (feet)	Lab	Chloromethane	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Ethylbenzene	Methylene chloride	Tetrachloroethene	Toluene	Total Xylene Isomers	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
I03/04-SB01-1-S	SB01	8/13/94	4	BCA	<0.0006	<0.0002	<0.0006	<0.0002	<0.0001	<0.0002	<0.0004	<0.0006	<0.0004	<0.0006	<0.0002	<0.0002
I03/04-SB01-2-S	SB01	8/13/94	8.5	BCA	<0.0006	<0.0002	<0.0006	<0.0002	<0.0001	<0.0002	0.007	<0.0006	<0.0004	<0.0006	<0.0002	<0.0002
I03/04-SB02-1-S	SB02	8/13/94	10	BCA	<0.0006	<0.0002	<0.0006	<0.0002	<0.0001	<0.0002	<0.0004	<0.0006	<0.0004	<0.0006	<0.0002	<0.0002
I03/04-SB03-1-S	SB03	8/13/94	4	BCA	<0.0006	<0.0002	<0.0006	<0.0002	<0.0001	<0.0002	<0.0004	<0.0006	<0.0004	<0.0006	<0.0002	<0.0002
I03/04-DP188	SB03	8/13/94	4	BCA	<0.0006	<0.0002	<0.0006	<0.0002	<0.0001	<0.0002	<0.0004	<0.0006	<0.0004	<0.0006	<0.0002	<0.0002
I03/04-SB04-1-S	SB04	8/13/94	4	BCA	<0.0006	<0.0002	<0.0006	<0.0002	<0.0001	<0.0002	0.001 J	<0.0006	0.002	0.0007 J	<0.0002	<0.0002
I03/04-SB05-1-S	SB05	8/13/94	4	BCA	<0.0006	<0.0002	<0.0006	<0.0002	<0.0001	<0.0002	<0.0004	<0.0006	<0.0004	<0.0006	<0.0002	<0.0002
I03/04-SB06-1-S	SB06	8/13/94	4	BCA	<0.0006	<0.0002	<0.0006	<0.0002	<0.0001	<0.0002	<0.0004	<0.0006	<0.0004	<0.0006	<0.0002	<0.0002
I03/04-SB06-2-S	SB06	8/13/94	7.5	BCA	<0.0006	<0.0002	<0.0006	<0.0002	<0.0001	<0.0002	<0.0004	<0.0006	<0.0004	<0.0006	<0.0002	<0.0002
Analyses					9	9	9	9	9	9	9	9	9	9	9	9
Detections					0	0	0	0	0	0	2	0	1	1	0	0
Minimum Concentration					0	0	0	0	0	0	0.001	0	0.002	0.0007	0	0
Maximum Concentration					0	0	0	0	0	0	0.007	0	0.002	0.0007	0	0
HWAD - PCG					538	NE	83	800	16000	8000	4800	15	16000	160000	NE	NE
HWAD - PCG Hits					0	NE	0	0	0	0	0	0	0	0	NE	NE

Notes:
NA = Not analyzed.
NE = Not established.

VOCs
Method 8260 (BCA)

Sample ID	Location ID	Sample Date	Depth (feet)	Lab	Trichloroethene	Trichlorofluoromethane	Vinyl chloride
					mg/kg	mg/kg	mg/kg
I03/04-SB01-1-S	SB01	8/13/94	4	BCA	<0.001	<0.0001 R	<0.0002
I03/04-SB01-2-S	SB01	8/13/94	8.5	BCA	<0.001	<0.0001 R	<0.0002
I03/04-SB02-1-S	SB02	8/13/94	10	BCA	<0.001	<0.0001 R	<0.0002
I03/04-SB03-1-S	SB03	8/13/94	4	BCA	<0.001	<0.0001 R	<0.0002
I03/04-DP188	SB03	8/13/94	4	BCA	<0.001	<0.0001 R	<0.0002
I03/04-SB04-1-S	SB04	8/13/94	4	BCA	<0.001	0.014 R	<0.0002
I03/04-SB05-1-S	SB05	8/13/94	4	BCA	<0.001	<0.0001 R	<0.0002
I03/04-SB06-1-S	SB06	8/13/94	4	BCA	<0.001	<0.0001 R	<0.0002
I03/04-SB06-2-S	SB06	8/13/94	7.5	BCA	<0.001	<0.0001 R	<0.0002
Analyses					9	9	9
Detections					0	1	0
Minimum Concentration					0	0.014	0
Maximum Concentration					0	0.014	0
HWAD - PCG					10	24000	24000
HWAD - PCG Hits					0	0	0

Notes:
NA = Not analyzed.
NE = Not established.

VOCs
Method 8260A (APCL)

Sample ID	Location ID	Sample Date	Depth (feet)	Lab	n-Butylbenzene	n-Propylbenzene	Naphthalene	o-Xylene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
I03/04-TR01-1-S	TR01	2/26/97	10	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0004
I03/04-TR01-2-S	TR01	2/26/97	10	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0004
I03/04-TR01-3-S	TR01	2/26/97	17	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0004
I03/04-TR01-4-S	TR01	3/1/97	4	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0004
I03/04-TR01-5-S	TR01	3/1/97	7	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0004
I03/04-TR02-1-S	TR02	3/1/97	6	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0004
I03/04-TR02-2-S	TR02	3/1/97	11	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0004
I03/04-TR02-3-S	TR02	3/1/97	6	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0004
I03/04-TR02-4-S	TR02	3/1/97	11	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0004
Analyses					9	9	9	9	9	9	9	9	9	9	9	9
Detections					0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration					0	0	0	0	0	0	0	0	0	0	0	0
Maximum Concentration					0	0	0	0	0	0	0	0	0	0	0	0
HWAD - PCG					NE	NE	3200	160000	NE	NE	NE	15	16000	NE	NE	10
HWAD - PCG Hits					NE	NE	0	0	NE	NE	NE	0	0	NE	NE	0

Notes:
NA = Not analyzed.
NE = Not established.

VOCs
Method 8260A (APCL)

Sample ID	Location ID	Sample Date	Depth (feet)	Lab	Trichlorofluoromethane	Vinyl chloride	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
I03/04-TR01-1-S	TR01	2/26/97	10	APCL	<0.0002	<0.0002	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0004
I03/04-TR01-2-S	TR01	2/26/97	10	APCL	<0.0002	<0.0002	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0004
I03/04-TR01-3-S	TR01	2/26/97	17	APCL	<0.0002	<0.0002	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0004
I03/04-TR01-4-S	TR01	3/1/97	4	APCL	<0.0002	<0.0002	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0004
I03/04-TR01-5-S	TR01	3/1/97	7	APCL	<0.0002	<0.0002	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0004
I03/04-TR02-1-S	TR02	3/1/97	6	APCL	<0.0002	<0.0002	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0004
I03/04-TR02-2-S	TR02	3/1/97	11	APCL	<0.0002	<0.0002	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0004
I03/04-TR02-3-S	TR02	3/1/97	6	APCL	<0.0002	<0.0002	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0004
I03/04-TR02-4-S	TR02	3/1/97	11	APCL	<0.0002	<0.0002	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0004
Analyses					9	9	9	9	9	9	9	9	9	9	9
Detections					0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration					0	0	0	0	0	0	0	0	0	0	0
Maximum Concentration					0	0	0	0	0	0	0	0	0	0	0
HWAD - PCG					24000	24000	NE	7200	35	NE	NE	NE	NE	NE	480
HWAD - PCG Hits					0	0	NE	0	0	NE	NE	NE	NE	NE	0

Notes:
NA = Not analyzed.
NE = Not established.

VOCs
Method 8260A (APCL)

Sample ID	Location ID	Sample Date	Depth (feet)	Lab	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Chlorotoluene
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
I03/04-TR01-1-S	TR01	2/26/97	10	APCL	<0.0002	<0.0001	<0.0005	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001
I03/04-TR01-2-S	TR01	2/26/97	10	APCL	<0.0002	<0.0001	<0.0005	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001
I03/04-TR01-3-S	TR01	2/26/97	17	APCL	<0.0002	<0.0001	<0.0005	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001
I03/04-TR01-4-S	TR01	3/1/97	4	APCL	<0.0002	<0.0001	<0.0005	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001
I03/04-TR01-5-S	TR01	3/1/97	7	APCL	<0.0002	<0.0001	<0.0005	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001
I03/04-TR02-1-S	TR02	3/1/97	6	APCL	<0.0002	<0.0001	<0.0005	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001
I03/04-TR02-2-S	TR02	3/1/97	11	APCL	<0.0002	<0.0001	<0.0005	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001
I03/04-TR02-3-S	TR02	3/1/97	6	APCL	<0.0002	<0.0001	<0.0005	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001
I03/04-TR02-4-S	TR02	3/1/97	11	APCL	<0.0002	<0.0001	<0.0005	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001
Analyses					9	9	9	9	9	9	9	9	9	9	9	9
Detections					0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration					0	0	0	0	0	0	0	0	0	0	0	0
Maximum Concentration					0	0	0	0	0	0	0	0	0	0	0	0
HWAD - PCG					NE	NE	0.008	7200	NE	NE	NE	NE	NE	150	NE	NE
HWAD - PCG Hits					NE	NE	0	0	NE	NE	NE	NE	NE	0	NE	NE

Notes:
NA = Not analyzed.
NE = Not established.

VOCs
Method 8260A (APCL)

Sample ID	Location ID	Sample Date	Depth (feet)	Lab	4-Chlorotoluene	4-Isopropyltoluene	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
I03/04-TR01-1-S	TR01	2/26/97	10	APCL	<0.0002	<0.0002	<0.0002	<0.0001	<0.0005	<0.0002	<0.0003	<0.0003	<0.0001	<0.0002	<0.0007
I03/04-TR01-2-S	TR01	2/26/97	10	APCL	<0.0002	<0.0002	<0.0002	<0.0001	<0.0005	<0.0002	<0.0003	<0.0003	<0.0001	<0.0002	<0.0007
I03/04-TR01-3-S	TR01	2/26/97	17	APCL	<0.0002	<0.0002	<0.0002	<0.0001	<0.0005	<0.0002	<0.0003	<0.0003	<0.0001	<0.0002	<0.0007
I03/04-TR01-4-S	TR01	3/1/97	4	APCL	<0.0002	<0.0002	<0.0002	<0.0001	<0.0005	<0.0002	<0.0003	<0.0003	<0.0001	<0.0002	<0.0007
I03/04-TR01-5-S	TR01	3/1/97	7	APCL	<0.0002	<0.0002	<0.0002	<0.0001	<0.0005	<0.0002	<0.0003	<0.0003	<0.0001	<0.0002	<0.0007
I03/04-TR02-1-S	TR02	3/1/97	6	APCL	<0.0002	<0.0002	<0.0002	<0.0001	<0.0005	<0.0002	<0.0003	<0.0003	<0.0001	<0.0002	<0.0008
I03/04-TR02-2-S	TR02	3/1/97	11	APCL	<0.0002	<0.0002	<0.0002	<0.0001	<0.0005	<0.0002	<0.0003	<0.0003	<0.0001	<0.0002	<0.0007
I03/04-TR02-3-S	TR02	3/1/97	6	APCL	<0.0002	<0.0002	<0.0002	<0.0001	<0.0005	<0.0002	<0.0003	<0.0003	<0.0001	<0.0002	<0.0008
I03/04-TR02-4-S	TR02	3/1/97	11	APCL	<0.0002	<0.0002	<0.0002	<0.0001	<0.0005	<0.0002	<0.0003	<0.0003	<0.0001	<0.0002	<0.0007
Analyses					9	9	9	9	9	9	9	9	9	9	9
Detections					0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration					0	0	0	0	0	0	0	0	0	0	0
Maximum Concentration					0	0	0	0	0	0	0	0	0	0	0
HWAD - PCG					NE	NE	10	NE	NE	NE	89	112	10	2000	NE
HWAD - PCG Hits					NE	NE	0	NE	NE	NE	0	0	0	0	NE

Notes:
NA = Not analyzed.
NE = Not established.

VOCs
Method 8260A (APCL)

Sample ID	Location ID	Sample Date	Depth (feet)	Lab	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromochloropropane	Dibromomethane	Dichlorodifluoromethane	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	m-&p-Xylenes
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
I03/04-TR01-1-S	TR01	2/26/97	10	APCL	<0.0002	<0.0003	<0.0002	<0.0001	<0.0002	<0.001	<0.0005	<0.0002	<0.0001	<0.0002	<0.0002	<0.0005
I03/04-TR01-2-S	TR01	2/26/97	10	APCL	<0.0002	<0.0003	<0.0002	<0.0001	<0.0002	<0.0009	<0.0005	<0.0002	<0.0001	<0.0002	<0.0002	<0.0005
I03/04-TR01-3-S	TR01	2/26/97	17	APCL	<0.0002	<0.0003	<0.0002	<0.0001	<0.0002	<0.0009	<0.0005	<0.0002	<0.0001	<0.0002	<0.0002	<0.0005
I03/04-TR01-4-S	TR01	3/1/97	4	APCL	<0.0002	<0.0003	<0.0002	<0.0001	<0.0002	<0.001 UJ	<0.0005	<0.0002	<0.0001	<0.0002	<0.0002	<0.0005
I03/04-TR01-5-S	TR01	3/1/97	7	APCL	<0.0002	<0.0003	<0.0002	<0.0001	<0.0002	<0.0009 UJ	<0.0005	<0.0002	<0.0001	<0.0002	<0.0002	<0.0005
I03/04-TR02-1-S	TR02	3/1/97	6	APCL	<0.0002	<0.0003	<0.0002	<0.0001	<0.0002	<0.001	<0.0005	<0.0002 UJ	<0.0001	<0.0002	<0.0002	<0.0005
I03/04-TR02-2-S	TR02	3/1/97	11	APCL	<0.0002	<0.0003	<0.0002	<0.0001	<0.0002	<0.0009 UJ	<0.0005	<0.0002	<0.0001	<0.0002	<0.0002	<0.0005
I03/04-TR02-3-S	TR02	3/1/97	6	APCL	<0.0002	<0.0003	<0.0002	<0.0001	<0.0002	<0.001	<0.0005	<0.0002	<0.0001	<0.0002	<0.0002	<0.0005
I03/04-TR02-4-S	TR02	3/1/97	11	APCL	<0.0002	<0.0003	<0.0002	<0.0001	<0.0002	<0.0009	<0.0005	<0.0002	<0.0001	<0.0002	<0.0002	<0.0005
Analyses					9	9	9	9	9	9	9	9	9	9	9	9
Detections					0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration					0	0	0	0	0	0	0	0	0	0	0	0
Maximum Concentration					0	0	0	0	0	0	0	0	0	0	0	0
HWAD - PCG					120	538	NE	NE	83	NE	800	16000	8000	NE	NE	160000
HWAD - PCG Hits					0	0	NE	NE	0	NE	0	0	0	NE	NE	0

Notes:
NA = Not analyzed.
NE = Not established.

VOCs
Method 8260A (APCL)

Sample ID	Location ID	Sample Date	Depth (feet)	Lab	Methylene chloride	MTBE
					mg/kg	mg/kg
I03/04-TR01-1-S	TR01	2/26/97	10	APCL	<0.0007	<0.0002
I03/04-TR01-2-S	TR01	2/26/97	10	APCL	<0.0007	<0.0002
I03/04-TR01-3-S	TR01	2/26/97	17	APCL	<0.0007	<0.0002
I03/04-TR01-4-S	TR01	3/1/97	4	APCL	<0.0007	<0.0002
I03/04-TR01-5-S	TR01	3/1/97	7	APCL	<0.0007	<0.0002
I03/04-TR02-1-S	TR02	3/1/97	6	APCL	<0.0008	<0.0002
I03/04-TR02-2-S	TR02	3/1/97	11	APCL	<0.0007	<0.0002
I03/04-TR02-3-S	TR02	3/1/97	6	APCL	<0.0008	<0.0002
I03/04-TR02-4-S	TR02	3/1/97	11	APCL	<0.0007	<0.0002
Analyses					9	9
Detections					0	0
Minimum Concentration					0	0
Maximum Concentration					0	0
HWAD - PCG					4800	NE
HWAD - PCG Hits					0	NE

Notes:
NA = Not analyzed.
NE = Not established.

Explosives
Method 8330 (Datachem)

Sample ID	Location ID	Sample Date	Depth (feet)	Lab	1,3,5-Trinitrobenzene	1,3-Dinitrobenzene	2,4,6-Trinitrotoluene	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Nitrotoluene	3-Nitrotoluene	4-Nitrotoluene	HMX	Nitrobenzene	RDX	Tetryl
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
I03/04-DP119	SS01	7/20/94	0	Datachem	<0.09	<0.04	<0.19	<0.19	<0.17	<0.46	<0.39	<0.74	<0.21	<0.09	<0.34	<0.19
I03/04-DP189	SB05	8/13/94	4	Datachem	<0.09	<0.04	<0.19	<0.19	<0.17	<0.46	<0.39	<0.74	<0.21	<0.09	<0.34	<0.19
Analyses					2	2	2	2	2	2	2	2	2	2	2	2
Detections					0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration					0	0	0	0	0	0	0	0	0	0	0	0
Maximum Concentration					0	0	0	0	0	0	0	0	0	0	0	0
HWAD - PCG					4	8	233	2.6	80	800	800	800	4000	40	64	800
HWAD - PCG Hits					0	0	0	0	0	0	0	0	0	0	0	0

Notes:
NA = Not analyzed.
NE = Not established.

Explosives
Method 8330 (APCL)

Sample ID	Location ID	Sample Date	Depth (feet)	Lab	1,3,5-Trinitrobenzene	1,3-Dinitrobenzene	2,4,6-Trinitrotoluene	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Nitrotoluene	3-Nitrotoluene	4-Nitrotoluene	HMX	Nitrobenzene	RDX
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
I03/04-TR01-1-S	TR01	2/26/97	10	APCL	<0.014	<0.027	<0.043	<0.028	<0.06	<0.077	<0.066	<0.077	<0.049	<0.059	<0.053
I03/04-TR01-2-S	TR01	2/26/97	10	APCL	<0.014	<0.026	<0.042	<0.027	<0.058	<0.075	<0.064	<0.075	<0.048	<0.057	<0.052
I03/04-TR01-3-S	TR01	2/26/97	17	APCL	<0.013	<0.026	<0.041	<0.027	<0.058	<0.074	<0.064	<0.074	<0.048	<0.057	<0.052
I03/04-TR01-4-S	TR01	3/1/97	4	APCL	<0.064	<0.035	<0.058	<0.043	<0.047	<0.09	<0.064	<0.076	<0.06	<0.067	<0.045
I03/04-TR01-5-S	TR01	3/1/97	7	APCL	<0.064	<0.035	<0.058	<0.043	<0.046	<0.089	<0.064	<0.075	<0.06	<0.066	<0.045
I03/04-TR02-1-S	TR02	3/1/97	6	APCL	<0.066	<0.036	<0.06	<0.044	<0.048	<0.092	<0.066	<0.078	<0.062	<0.068	<0.047
I03/04-TR02-2-S	TR02	3/1/97	11	APCL	<0.063	<0.034	<0.057	<0.042	<0.046	<0.088	<0.063	<0.075	<0.059	<0.065	<0.045
I03/04-TR02-3-S	TR02	3/1/97	6	APCL	<0.066	<0.036	<0.059	<0.044	<0.048	<0.092	<0.066	<0.078	<0.062	<0.068	<0.046
I03/04-TR02-4-S	TR02	3/1/97	11	APCL	<0.063	<0.034	<0.056	<0.042	<0.045	<0.087	<0.063	<0.074	<0.059	<0.065	<0.044
Analyses					9	9	9	9	9	9	9	9	9	9	9
Detections					0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration					0	0	0	0	0	0	0	0	0	0	0
Maximum Concentration					0	0	0	0	0	0	0	0	0	0	0
HWAD - PCG					4	8	233	2.6	80	800	800	800	4000	40	64
HWAD - PCG Hits					0	0	0	0	0	0	0	0	0	0	0

Notes:
NA = Not analyzed.
NE = Not established.

Explosives
Method 8330 (APCL)

Sample ID	Location ID	Sample Date	Depth (feet)	Lab	Tetryl	2-Amino-4,6-dinitrotoluene	4-Amino-2,6-dinitrotoluene
					mg/kg	mg/kg	mg/kg
I03/04-TR01-1-S	TR01	2/26/97	10	APCL	<0.048	NA	NA
I03/04-TR01-2-S	TR01	2/26/97	10	APCL	<0.047	NA	NA
I03/04-TR01-3-S	TR01	2/26/97	17	APCL	<0.046	NA	NA
I03/04-TR01-4-S	TR01	3/1/97	4	APCL	<0.059	NA	NA
I03/04-TR01-5-S	TR01	3/1/97	7	APCL	<0.059	NA	NA
I03/04-TR02-1-S	TR02	3/1/97	6	APCL	<0.061	NA	NA
I03/04-TR02-2-S	TR02	3/1/97	11	APCL	<0.058	NA	NA
I03/04-TR02-3-S	TR02	3/1/97	6	APCL	<0.06	NA	NA
I03/04-TR02-4-S	TR02	3/1/97	11	APCL	<0.057	NA	NA
Analyses					9	0	0
Detections					0	0	0
Minimum Concentration					0	0	0
Maximum Concentration					0	0	0
HWAD - PCG					800	NE	NE
HWAD - PCG Hits					0	NE	NE

Notes:
NA = Not analyzed.
NE = Not established.

Explosives
Method 8330M (APCL)

Sample ID	Location ID	Sample Date	Depth (feet)	Lab	Picric Acid
					mg/kg
I03/04-TR01-1-S	TR01	2/26/97	10	APCL	<0.73
I03/04-TR01-2-S	TR01	2/26/97	10	APCL	<0.71
I03/04-TR01-3-S	TR01	2/26/97	17	APCL	<0.7
I03/04-TR01-4-S	TR01	3/1/97	4	APCL	<0.72
I03/04-TR01-5-S	TR01	3/1/97	7	APCL	<0.71
I03/04-TR02-1-S	TR02	3/1/97	6	APCL	<0.74
I03/04-TR02-2-S	TR02	3/1/97	11	APCL	<0.7
I03/04-TR02-3-S	TR02	3/1/97	6	APCL	<0.73
I03/04-TR02-4-S	TR02	3/1/97	11	APCL	<0.7
Analyses					9
Detections					0
Minimum Concentration					0
Maximum Concentration					0
HWAD - PCG					NE
HWAD - PCG Hits					NE

Notes:
NA = Not analyzed.
NE = Not established.

RDX Test Kit
Method 8510 (Tt Field)

Sample ID	Location ID	Sample Date	Depth (feet)	Lab	RDX	RDX-Dup	RDX (Rerun)
					mg/kg	mg/kg	mg/kg
I03/04-TR01-1-S	TR01	2/26/97	10	Tt Field	< 0.8	NA	NA
I03/04-TR01-2-S	TR01	2/26/97	10	Tt Field	< 0.8	NA	NA
I03/04-TR01-3-S	TR01	2/26/97	17	Tt Field	< 0.8	NA	NA
I03/04-TR01-4-S	TR01	3/1/97	4	Tt Field	<0.8	NA	NA
I03/04-TR01-5-S	TR01	3/1/97	7	Tt Field	<0.8	NA	NA
I03/04-TR02-1-S	TR02	3/1/97	6	Tt Field	<0.8	NA	NA
I03/04-TR02-2-S	TR02	3/1/97	11	Tt Field	0.89	NA	NA
I03/04-TR02-3-S	TR02	3/1/97	6	Tt Field	1.51	NA	NA
I03/04-TR02-4-S	TR02	3/1/97	11	Tt Field	1.63	NA	NA
Analyses					9	0	0
Detections					3	0	0
Minimum Concentration					0.89	0	0
Maximum Concentration					1.63	0	0
HWAD - PCG					64	64	64
HWAD - PCG Hits					0	0	0

Notes:
NA = Not analyzed.
NE = Not established.

TNT Test Kit
Method 8515 (Tt Field)

Sample ID	Location ID	Sample Date	Depth (feet)	Lab	2,4,6-TNT	2,4,6-TNT-Dup	2,4,6-TNT (Rerun)
					mg/kg	mg/kg	mg/kg
I03/04-TR01-1-S	TR01	2/26/97	10	Tt Field	< 0.8	NA	NA
I03/04-TR01-2-S	TR01	2/26/97	10	Tt Field	< 0.8	NA	NA
I03/04-TR01-3-S	TR01	2/26/97	17	Tt Field	< 0.8	NA	NA
I03/04-TR01-4-S	TR01	3/1/97	4	Tt Field	< 0.8	NA	NA
I03/04-TR01-5-S	TR01	3/1/97	7	Tt Field	< 0.8	NA	NA
I03/04-TR02-1-S	TR02	3/1/97	6	Tt Field	< 0.8	NA	NA
I03/04-TR02-2-S	TR02	3/1/97	11	Tt Field	< 0.8	NA	NA
I03/04-TR02-3-S	TR02	3/1/97	6	Tt Field	< 0.8	NA	NA
I03/04-TR02-4-S	TR02	3/1/97	11	Tt Field	< 0.8	NA	NA
Analyses					9	0	0
Detections					0	0	0
Minimum Concentration					0	0	0
Maximum Concentration					0	0	0
HWAD - PCG					233	233	233
HWAD - PCG Hits					0	0	0

Notes:
NA = Not analyzed.
NE = Not established.

Appendix D

I-3/I-4, Pan along center of north fence at Bldg 104-7. #R3-P15/16, 11/3/93

August 1999