Decision Document

Solid Waste Management Unit J16
111-113 Group Burn Area/Landfill
Hawthorne Army Depot
Hawthorne, Nevada

Hawthorne Army Depot

September 1999

Decision Document SWMU J-16

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

29 SEP 1999

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

State of Nevada

13 Oct 1999

Paul Liebendorfer
Chief, Bureau of Federal Facilities

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Decision Document
SWMU J-16,
111-113 Group Burn Area/Landfill
HAWTHORNE ARMY DEPOT
HAWTHORNE, NEVADA

1.0 Introduction:

This decision document describes the rationale for the proposed closure of SWMU J-16, the 111-113 group burn area/landfill, at the Hawthorne Army Depot (HWAD), Hawthorne, Nevada. This document is prepared by the U.S. Army Corps of Engineers, Sacramento District, with the help of 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 sampling 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. 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 J16 is in HWAD's north magazine area at the south end of magazine groups 111 and 115 (Figure 1-1). This SWMU was a 3.3-acre open burn and landfill area bounded by two railroad spurs on the east, west, and south sides and by the south perimeter road of the 111 Magazine Group to the north. Two metal debris piles are in the southern portion of the SWMU, and much of the SWMU appears to have been graded.

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 J16. A brass survey pin on the monument designates the monument number HWAAP-21-1996 and the SWMU number J16. Three pins were set and surveyed to define the irregularly shaped SWMU boundary, with the monument as the north corner. The location of these boundary markers and the SWMU J-16 boundary is presented in Appendix A.

3.0 SITE CONDITIONS

SWMU J16 was described by Resource Application, Inc. (RAI), during its 1992 site inspection as a burn area that had been regraded, with steel banding and other scrap materials on the surface (RAI 1992). On a 1980 aerial photograph, five or six dark "burn areas" and two surface piles called "dump sites" were identified (EMSL 1980). The ground surface, in 1997, was observed to be primarily sandy silt that was sparsely vegetated and appeared to have been recently graded. The ground surface contained metal strapping, wood, and other small metal debris, but no surface evidence of open burn areas or of a former refuse dump was observed within the SWMU boundary. 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 approximately 50 feet below the ground surface (bgs), with a projected ground water gradient direction estimated to be toward the northwest. Based on the general activities at HWAD and the potential disposal activities that likely occurred at SWMU J16, and based on the site inspections, the chemicals of concern were, metals, hydrocarbons, volatile organic compounds (VOC's) and explosives. These analytes are from munitions potentially disposed of at this SWMU, and petroleum hydrocarbon fuels, such as gasoline and diesel, and petroleum hydrocarbon fuel constants, such as benzene, toluene, ethylbenzene, and xylenes (BTEX) and other VOCs.

Basewide PCGs for soil at HWAD were established during the remedial investigations with guidance from the NDEP (appendix B). The purposes of these PCGs are to establish acceptable levels so that SWMU closure could be recommended and to assist in directing the investigative efforts toward those SWMUs where the environmental impacts are the greatest. The PCGs were established for target analytes of potential environmental concern that were detected in soils during the current and previous investigations at HWAD basewide.

4.0 INVESTIGATIONS

RAI conducted a site inspection of SWMU J16 in 1992 (RAI 1992) but reported no evidence of chemical releases at this SWMU. No investigation activities were conducted during this inspection, and no soil samples were collected from the SWMU at that time. During Tt's 1993 site inspection of SWMU J16, a small shed with an electrical transformer on the south side of the building was observed near the east corner of the SWMU. This shed was reportedly a former carpentry shop with electric saw equipment. The SWMU recently had been cleared and leveled in preparation for temporary military van storage. This grading revealed large areas of charcoal and ash from previous burning disposal activities. Debris that was cleared and piled in the southern end of the SWMU contained ash, charred wood, and metal, indicating that mostly packing material was disposed of at SWMU J16 debris piles from this clearing were observed in the southern portion of SWMU J16. During Tt's 1994 remedial investigation of SWMU J16, Norcal Geophysical Consultants, Inc., of Petaluma, California, performed surface geophysical surveys. Tt also preformed a soil gas survey at that time. The geophysical surveys included a vertical magnetic gradient (MAG) survey and an electromagnetic terrain conductivity (EMAG) survey. These two surveys were conducted simultaneously on a 20-foot grid over a 780-foot by

340-foot area within the SWMU boundary where the open burn areas were observed on the 1980 aerial photograph. The subsequent test pit and trench investigation of the four largest of the seven anomalies possibly containing buried debris found charred wood and metal debris to depths of 3.5 to 5 feet within the geophysical anomalies, verifying that these anomalies were from former disposal activities in open burn disposal pits. During Tt's 1997 remedial investigation of SWMU J16, 11 subsurface soil samples were collected from test pits and trenches, Figure 3-1 illustrates the excavation locations.

5.0 Investigation Results

During Tt's 1994 investigation of SWMU J16, the soil gas survey found no VOCs in any of the soil gas samples collected from the near-surface soils at this SWMU. Therefore, there does not appear to have been significant releases of petroleum hydrocarbon compounds or solvents that contained VOCs to the near-surface soils at this SWMU.

Appendix C summarizes the detected analytical results of the 11 subsurface soil samples collected during Tt's 1997 remedial investigation of SWMU J16. Aluminum, arsenic, barium, total chromium, and lead were found in all 11 of these subsurface soil samples, and cadmium was found in five of these samples. No other metals were found in any of these 11 subsurface soil samples collected from the test pits and trenches. No explosives were found in any of these subsurface soil samples collected from the test pits and trenches. All 11 of the subsurface soil samples reportedly contained total petroleum hydrocarbons as diesel based on the field screening analyses. The APCL laboratory analyses of three collocated duplicate samples from the test pits and trenches found no TPH as gasoline, diesel, motor oil, or heavy oil by USEPA Method 8015ME. Therefore, the field screening data for TPH-d in the subsurface soil samples collected from the two test pits and three trenches appear to be high-biased, and none of the TPH-d concentrations in these samples are likely to be greater than 20 mg/kg, if present at all. No VOCs were found in any of the 11 subsurface soil samples collected from the test pits or trenches at SWMU J16.

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 shall continue to solicit community involvement, and will establish a RAB should sufficient community interest be obtained.

9.0 Conclusions and Recommendations

There is no evidence of any of the chemicals of concern at SWMU J16. SWMU J16 is recommended to the NDEP for site closure without land use restrictions.

10.0 REFERENCES

EMSL. 1980. Aerial photographs of HWAAP, with overlays showing site locations identified by Art Gravenstein, NDEP.

NDEP. December 1998. Letter to HWAD. Draft Remedial Investigation reports, Solid Waste Management Units J02, J16, J25.

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, Virginia. December 1992.

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

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_____. 1994b. Hawthorne Army Ammunition Plant - Group B Remedial Investigation: Final Work Plan. Two volumes.

_____. 1994c. Hawthorne Army Ammunition Plant - Group B Remedial Investigation: Final Chemical Data Acquisition Plan.

_____. 1997a. Final Quarterly Ground Water Monitoring Report, First Quarter 1997, Hawthorne Army Depot, Hawthorne, Nevada. September 1997.

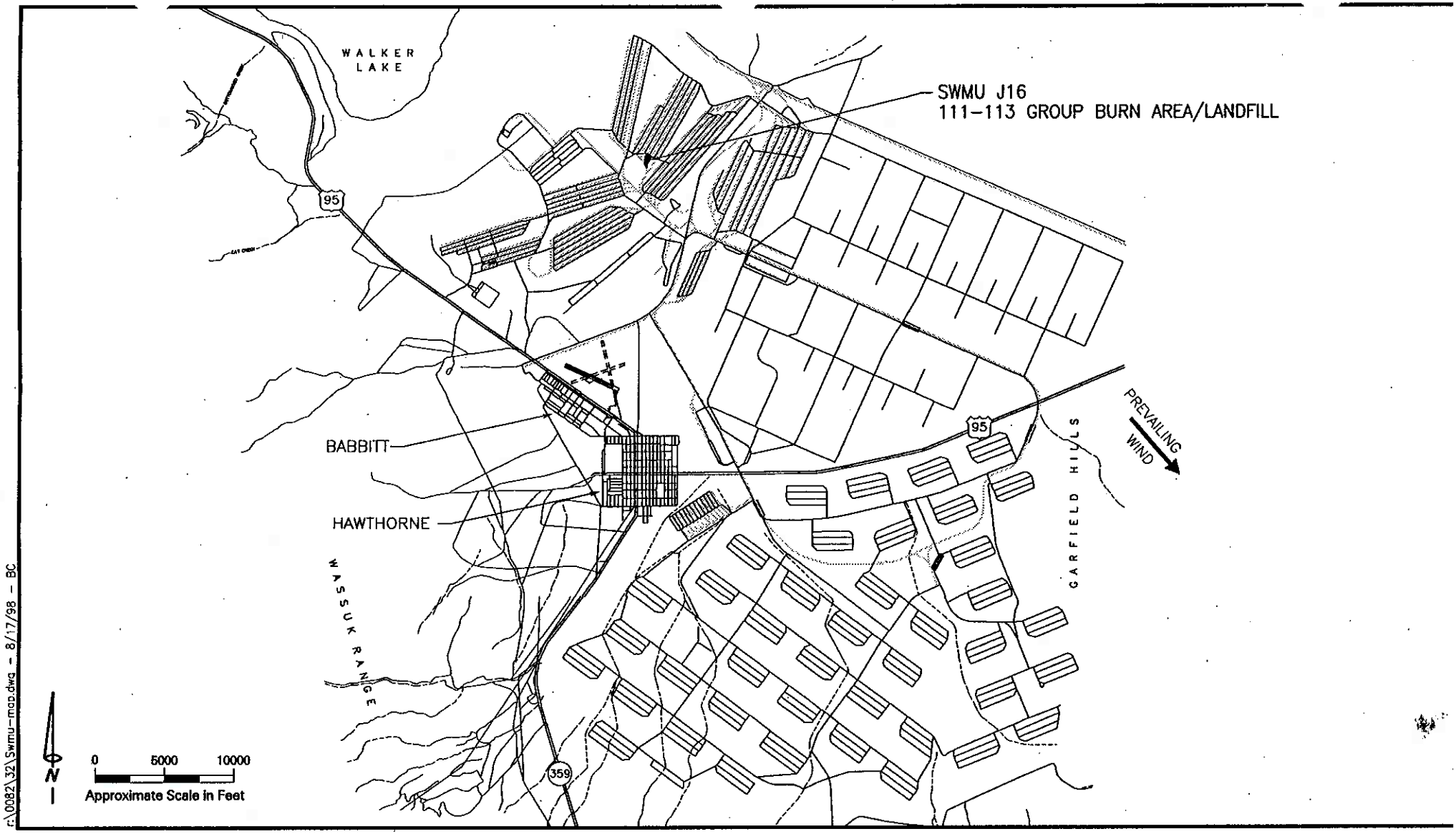
_____. 1997b. Quarterly Ground Water Monitoring Report, Second Quarter 1997, Hawthorne Army Depot, Hawthorne, Nevada. July 1997.

_____. 1997c. Final Site Health and Safety Plan, Hawthorne Army Depot, Hawthorne, Nevada. February 1997.

_____. 1997d. Final Data Package with recommendations for future action, Group B Solid Waste Management Units, Hawthorne Army Depot, Hawthorne, Nevada, Volumes 1, 2a, and 2b. January 1997.

_____. 1997e. Final Sampling and Analysis Plan, Remedial Investigations, Groups A and B Solid Waste Management Units, Hawthorne Army Depot, Hawthorne, Nevada. February 1997.

_____. 1997f. Final Technical Memorandum Background Sampling at the Hawthorne Army Depot, Hawthorne, Nevada. March 1997.



c:\0082\32\Swmu-map.dwg - 8/17/98 - BC

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

Site Location Map
SWMU J16
111-113 Group Burn Area/Landfill
Hawthorne Army Depot
Hawthorne, Nevada
Figure 1-1

Tetra Tech, Inc.

Legend:

- Boundary Corner Pin
- Railroad
- SWMU Monument

N

0 60 120
Approximate Scale in feet

Tetra Tech, Inc.

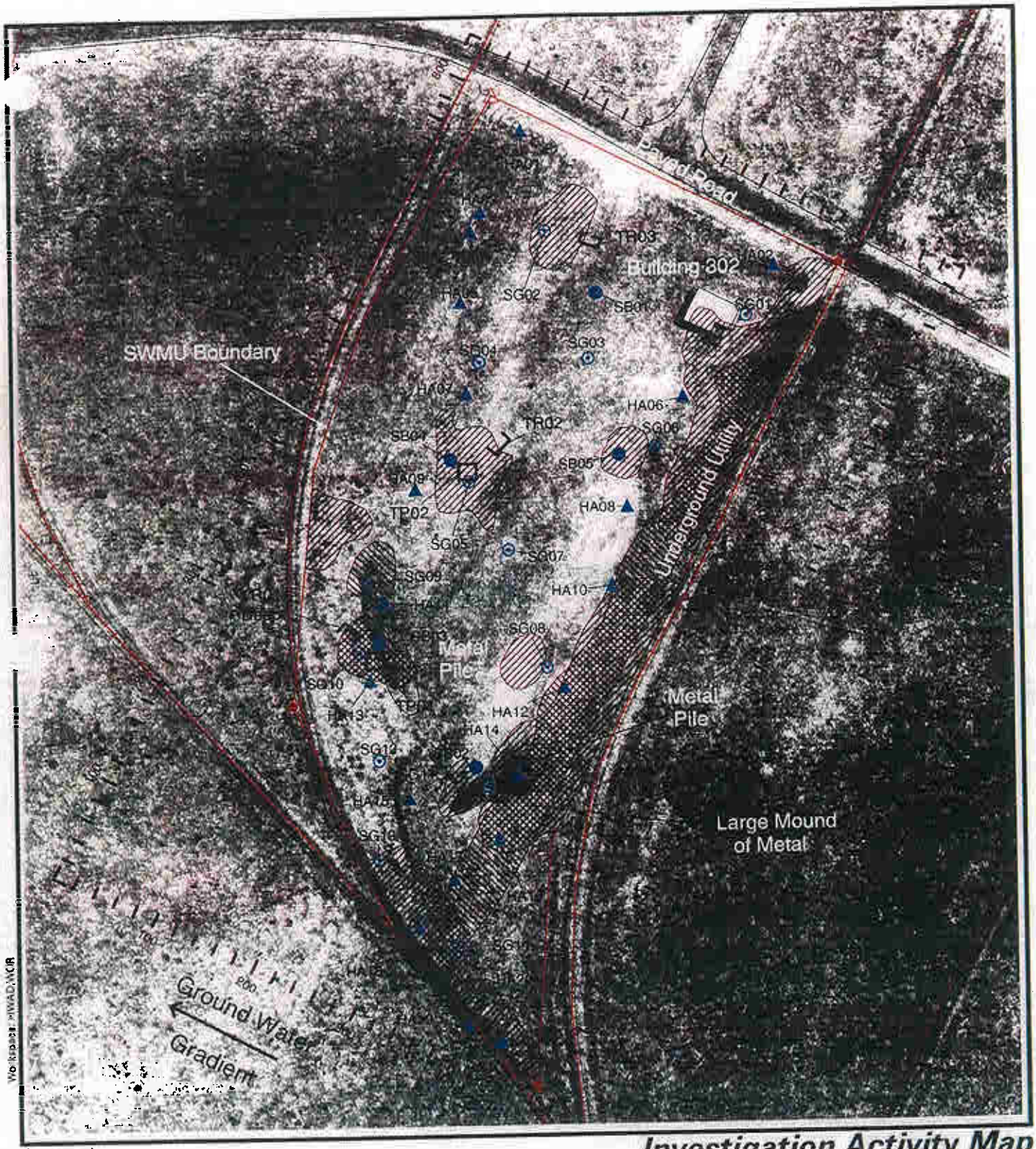
Site Map

SWMU J16

111-113 Burn Area/Landfill

Hawthorne Army Depot
Hawthorne, Nevada

Figure 1-2



Legend:

- SWMU Monument
- MAG Anomaly
- Boundary Corner Pin
- EMAG Anomaly
- Test Pit
- Trench Location
- Hand Auger Location
- Soil Boring Location
- Railroad
- Soil Gas Location

0 60 120
Approximate Scale in feet

N

Tetra Tech, Inc.

Investigation Activity Map
SWMU J16
111-113 Burn Area/Landfill

Hawthorne Army Depot
Hawthorne, Nevada

Figure 3-1

Appendix A

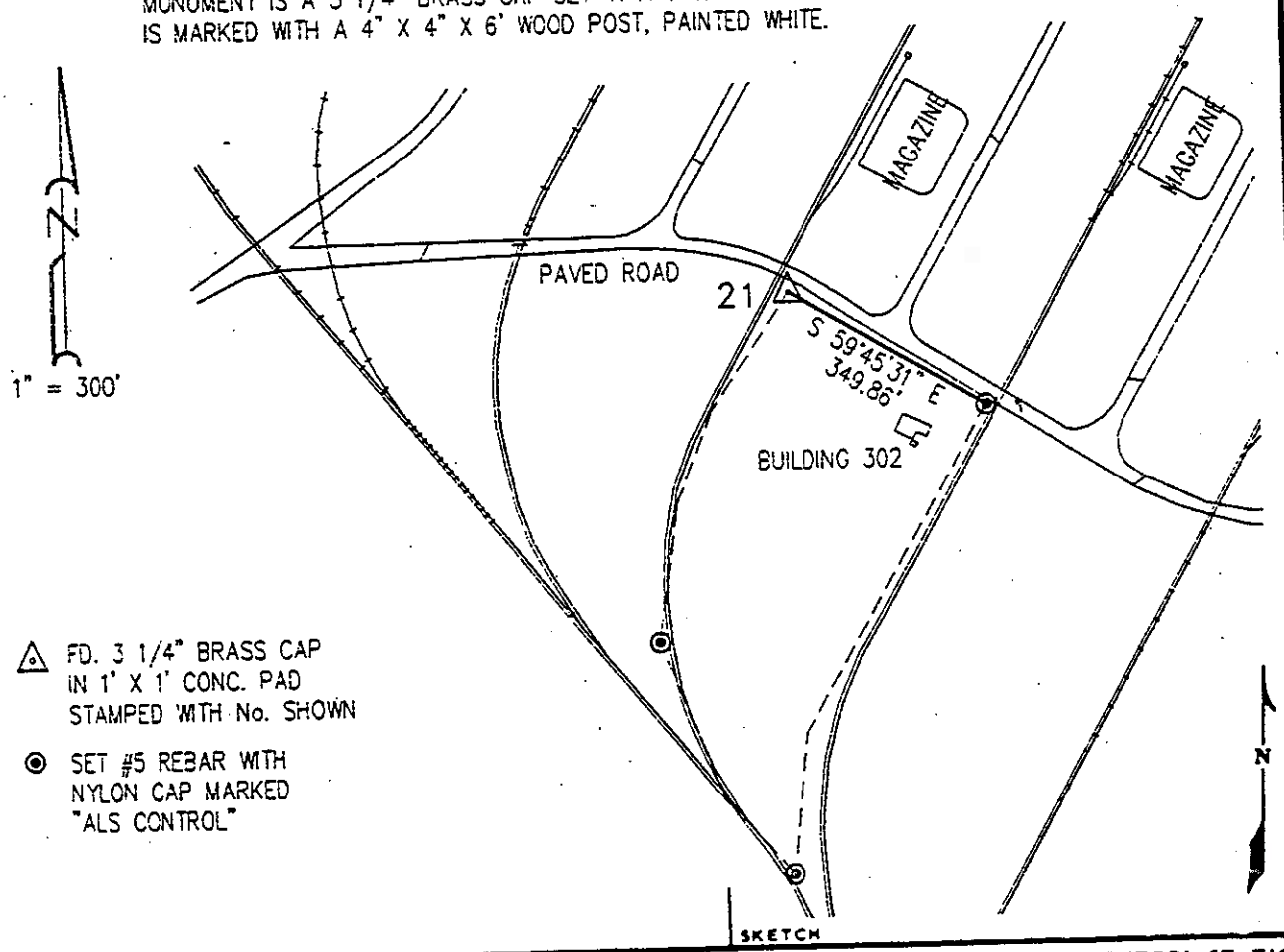
COUNTRY	TYPE OF MARK	STATION	
USA	BRASS CAP	21	
LOCALITY: HAWTHORNE NEV.	STAMPING ON MARK: 21 J-16	AGENCY (CAST IN MARKS): COE HWAAP	ELEVATION: 4082.90 (FT) (M)
LATITUDE: 38°35'21.27048" N	LONGITUDE: 118°37'17.18098" W	DATUM: NAD '27	DATUM: NGVD '29
(NORTHING)(EASTING) (FT) 1397617.22 (M)	(EASTING)(NORTHING) (FT) 489108.54 (M)	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 21 – SWMU J-16
FROM HIGHWAY 95 TAKE THORNE ROAD NORTHEAST 3 MILES TO SALVAGE ROAD, THEN GO NORTHWEST 1 MILE ON SALVAGE ROAD, THEN LEAVE SALVAGE ROAD AND CONTINUE NORTHWEST 0.3 MILES, THEN NORTHEAST 0.2 MILES, THEN EAST 0.3 MILES TO BUILDING 302. 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 64 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 J16 Survey Data
Hawthorne Army Depot
Hawthorne, Nevada

SWMU	Point ID	Northing (feet)	Easting (feet)	Elevation
J16	HWAAP-21-1996	1397617.22	489108.54	4082.90
J16	Pin 1	1397441.00	489410.8	NE
J16	Pin 2	1396729.17	489096.73	NE
J16	Pin 3	1397086.97	488898.29	NE
J16	HA01	1397583.35	489132.10	NE
J16	HA02	1397443.98	489352.70	NE
J16	HA03	1397514.51	489092.16	NE
J16	HA04	1397497.29	489082.18	NE
J16	HA05	1397435.68	489069.44	NE
J16	HA06	1397333.90	489265.10	NE
J16	HA07	1397353.66	489070.11	NE
J16	HA08	1397239.79	489208.83	NE
J16	HA09	1397271.81	489019.25	NE
J16	HA10	1397170.20	489191.63	NE
J16	HA11	1397173.02	488985.34	NE
J16	HA12	1397082.02	489142.73	NE
J16	HA13	1397103.40	488968.62	NE
J16	HA14	1397006.62	489096.18	NE
J16	HA15	1396994.37	488997.44	NE
J16	HA16	1396950.10	489075.53	NE
J16	HA17	1396917.84	489033.25	NE
J16	HA18	1396878.37	488999.15	NE
J16	HA19	1396786.80	489038.04	NE
J16	HA20	1396769.41	489067.29	NE
J16	SB01	1397433.92	489192.47	NE
J16	SB02	1397017.31	489058.64	NE
J16	SB03	1397137.23	488979.16	NE
J16	SB04	1397296.35	489052.31	NE
J16	SB05	1397287.82	489204.59	NE
J16	SG01	1397401.43	489325.72	NE
J16	SG02	1397492.83	489149.31	NE
J16	SG03	1397375.67	489182.33	NE
J16	SG04	1397380.81	489083.72	NE
J16	SG05	1397274.75	489068.11	NE
J16	SG06	1397291.55	489237.76	NE
J16	SG07	1397210.41	489099.88	NE
J16	SG08	1397101.56	489128.3	NE
J16	SG09	1397191.46	488973.93	NE
J16	SG10	1397129.78	488961.48	NE
J16	SG11	1396998.73	489069.06	NE
J16	SG12	1397031.08	488972.84	NE
J16	SG13	1396942.26	488967.32	NE
J16	SG14	1396857.92	489033.41	NE
J16	TP01	1397121.78	488974.39	NE
J16	TP02	1397284.30	489067.17	NE
J16	TR01	1397138.24	488942.35	NE
J16		1397158.05	488961.60	NE
J16	TR02	1397297.27	489086.83	NE
J16		1397316.25	489106.87	NE
J16	TR03	1397473.15	489180.10	NE
J16		1397489.65	489200.30	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[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 C

BTEX Test Kit
Method 4031 (Tt Field)

Sample ID	Location ID	Sample Date	Depth (feet)	Lab	BTEX mg/kg
J16-DP140	HA08	7/23/94	2	Tt Field	X<2
J16-DP149	HA14	7/24/94	2	Tt Field	2<X<10
J16-DP282	SB04	8/22/94	10.25	Tt Field	X<2
J16-HA01-1-S	HA01	7/23/94	2	Tt Field	X<2
J16-HA02-1-S	HA02	7/23/94	2	Tt Field	X<2
J16-HA03-1-S	HA03	7/23/94	2	Tt Field	X<2
J16-HA04-1-S	HA04	7/23/94	2	Tt Field	X<2
J16-HA05-1-S	HA05	7/23/94	2	Tt Field	X<2
J16-HA06-1-S	HA06	7/23/94	2	Tt Field	X<2
J16-HA07-1-S	HA07	7/23/94	2	Tt Field	X<2
J16-HA08-1-S	HA08	7/23/94	2	Tt Field	X<2
J16-HA09-1-S	HA09	7/23/94	2	Tt Field	X<2
J16-HA10-1-S	HA10	7/23/94	2	Tt Field	X<2
J16-HA11-1-S	HA11	7/23/94	2	Tt Field	X<2
J16-HA12-1-S	HA12	7/24/94	2	Tt Field	2<X<10
J16-HA13-1-S	HA13	7/24/94	2	Tt Field	X<2
J16-HA14-1-S	HA14	7/24/94	2	Tt Field	X<2
J16-HA15-1-S	HA15	7/24/94	2	Tt Field	2<X<10
J16-HA16-1-S	HA16	7/24/94	2	Tt Field	2<X<10
J16-SB01-1-S	SB01	8/22/94	9.75	Tt Field	X<2
J16-SB02-1-S	SB02	8/22/94	11.75	Tt Field	X<2
J16-SB03-1-S	SB03	8/22/94	11	Tt Field	X<2
J16-SB04-1-S	SB04	8/22/94	10.25	Tt Field	X<2
J16-SB05-1-S	SB05	8/22/94	11.75	Tt Field	X<2

Analyses	24
Detections	4
Minimum Concentration	2<X<10
Maximum Concentration	2<X<10
HWAD - PCG	10
HWAD - PCG Hits	0

Notes:
PCG of 10 mg/kg for benzene applied as worst case for PCG for BTEX.
NA = Not analyzed.
NE = Not established.

Metals
Method 6010 (BCA)

Sample ID	Location ID	Sample Date	Depth (feet)	Lab	Aluminum	Arsenic	Barium	Cadmium	Selenium	Silver	Chromium	Lead
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
J16-DP137	HA08	7/23/94	2	BCA	NA	<4	14	0.53	<5	<0.9	2.5 J	<5
J16-DP145	HA14	7/24/94	2	BCA	NA	13 J	16	1.2	<5	<0.9	6.7	8.2 J
J16-DP277	SB02	8/22/94	11.75	BCA	NA	<4	53	0.49 J	<5	<1	3.1 J	6.5 J
J16-HA01-1-S	HA01	7/23/94	2	BCA	NA	7.8 J	31	<0.2	<5	<0.9	1.7 J	<5
J16-HA02-1-S	HA02	7/23/94	2	BCA	NA	7 J	18	<0.2	<5	1 J	3 J	<5
J16-HA03-1-S	HA03	7/23/94	2	BCA	NA	11 J	60	<0.2	<5	<0.9	1.8 J	<5
J16-HA04-1-S	HA04	7/23/94	2	BCA	NA	5.8 J	21	<0.2	<5	<0.9	3.2 J	<5
J16-HA05-1-S	HA05	7/23/94	2	BCA	NA	5.2 J	33	<0.2	<5	<0.9	1.9 J	<5
J16-HA06-1-S	HA06	7/23/94	2	BCA	NA	<4	23	<0.2	<5	0.9	3 J	<5
J16-HA07-1-S	HA07	7/23/94	2	BCA	NA	8.2 J	17	<0.2	<5	2.6 J	3.9 J	<5
J16-HA08-1-S	HA08	7/23/94	2	BCA	NA	<4	10	<0.2	<5	<0.9	0.8 J	<5
J16-HA09-1-S	HA09	7/23/94	2	BCA	NA	11 J	110	<0.2	<5	<0.9	3.6 J	36 J
J16-HA10-1-S	HA10	7/23/94	2	BCA	NA	10 J	110	<0.2	<5	<0.9	2.5 J	29 J
J16-HA11-1-S	HA11	7/23/94	2	BCA	NA	13 J	48	<0.2	<5	<0.9	2 J	<5
J16-HA12-1-S	HA12	7/24/94	2	BCA	NA	5 J	12	0.79 U	<5	<0.9	2.6 J	6.1 J
J16-HA13-1-S	HA13	7/24/94	2	BCA	NA	6.8 J	21	1 U	<5	<0.9	4.6 J	8.6 J
J16-HA14-1-S	HA14	7/24/94	2	BCA	NA	12 J	46	1 U	<5	<0.9	5	8.6 J
J16-HA15-1-S	HA15	7/24/94	2	BCA	NA	16 J	51	0.91 U	<5	<0.9	4 J	7.5 J
J16-HA16-1-S	HA16	7/24/94	2	BCA	NA	7.1 J	23	0.91 U	<5	<0.9	3.7 J	6.5 J
J16-HA17-1-S	HA17	7/25/94	2	BCA	NA	15 J	58	1 U	<5	<0.9	4.1 J	7.[illegible]
[illegible]-HA18-1-S	HA18	7/25/94	2	BCA	NA	<4	25	1.1 U	<5	<0.9	5.1	[illegible]
[illegible]-HA19-1-S	HA19	7/25/94	2	BCA	NA	<4	16	1.4 U	<5	<0.9	4 J	<5
J16-HA20-1-S	HA20	7/25/94	2	BCA	NA	<4	18	0.52 U	<5	<0.9	4.8 J	<5
J16-SB01-1-S	SB01	8/22/94	9.75	BCA	NA	<4	30	0.25 J	<5	<0.9	6.9	<5
J16-SB02-1-S	SB02	8/22/94	11.75	BCA	NA	<4	63	0.65	<6	<1	6.2	12 J
J16-SB03-1-S	SB03	8/22/94	11	BCA	NA	<4	250	<0.2	<5	<0.9	6.2	<5
J16-SB04-1-S	SB04	8/22/94	10.25	BCA	NA	<4	50	0.36 J	<5	<0.9	4.8 J	<5
J16-SB05-1-S	SB05	8/22/94	11.75	BCA	NA	<5	220	<0.3	<7	<1.2	19	27 J
Analyses					0	28	28	28	28	28	28	28
Detections					0	16	28	15	0	3	28	12
Minimum Concentration					0	5	10	0.25	0	0.9	0.8	6.1
Maximum Concentration					0	16	250	1.4	0	2.6	19	36
HWAD - PCG					80000	100	2000	20	20	100	20	100
HWAD - PCG Hits					0	0	0	0	0	0	0	0
Maximum Background Concentration					12365	18.1	447	1.08	0	0	13.76	16.7
Background Hits					0	0	0	3	0	0	1	3

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

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
J16-TP01-1-S	TP01	2/26/97	5	APCL	3150	16	59.2	<0.017	0.18 J	5.5	7	NA	<0.18	<0.07
J16-TP01-2-S	TP01	2/26/97	2.5	APCL	2820	15.2	48.1	<0.017	<0.021	11	7.9	NA	<0.18	<0.071
J16-TP02-1-S	TP02	2/26/97	5	APCL	6240	3.6	51.7	<0.018	<0.021	4.4	5.1	NA	<0.19	<0.073
J16-TP02-2-S	TP02	2/26/97	2.5	APCL	3760	3.2	25.9	<0.018	<0.021	2.7	2.8	NA	<0.19	<0.072
J16-TP02-3-S	TP02	2/26/97	3	APCL	3600	2.7	20.7	<0.018	<0.021	2.4	2.5	NA	<0.19	<0.071
J16-TR01-1-S	TR01	2/26/97	4	APCL	3260	4.3	48.5	<0.018	<0.021	2.3	2.7	NA	<0.19	<0.072
J16-TR01-2-S	TR01	2/26/97	8	APCL	5020	9	272	<0.018	0.3	5.1	7.8	NA	<0.19	<0.072
J16-TR02-1-S	TR02	2/26/97	5	APCL	4340	4.4	35	<0.017	<0.021	8.5	3.9	NA	<0.19	<0.071
J16-TR02-2-S	TR02	2/26/97	5	APCL	2980	20.5	48.1	<0.018	0.18 J	5.8	28.1	NA	<0.19	<0.072
J16-TR03-1-S	TR03	2/26/97	2	APCL	3120	22.9	63.7	<0.018	1.1	6.9	316	NA	<0.19	<0.072
J16-TR03-2-S	TR03	2/26/97	4	APCL	2510	11.8	47.2	<0.018	0.25	3.5	8.6	NA	<0.19	<0.072
Analyses					11	11	11	11	11	11	11	0	11	11
Detections					11	11	11	0	5	11	11	0	0	0
Minimum Concentration					2510	2.7	20.7	0	0.18	2.3	2.5	0	0	0
Maximum Concentration					6240	22.9	272	0	1.1	11	316	0	0	0
HWAD - PCG					80000	100	2000	1	20	20	100	NE	20	100
HWAD - PCG Hits					0	0	0	0	0	0	1	NE	0	0
Maximum Background Concentration					12365	18.1	447	0.58	1.08	13.76	16.7	0	0	0
Background Hits					0	2	0	0	1	0	2	0	0	0

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

Mercury
Method 7471 (BCA)

Sample ID	Location ID	Sample Date	Depth (feet)	Lab	Mercury mg/kg
J16-DP137	HA08	7/23/94	2	BCA	<0.04
J16-DP145	HA14	7/24/94	2	BCA	<0.04
J16-DP277	SB02	8/22/94	11.75	BCA	<0.04
J16-HA01-1-S	HA01	7/23/94	2	BCA	<0.04
J16-HA02-1-S	HA02	7/23/94	2	BCA	<0.04
J16-HA03-1-S	HA03	7/23/94	2	BCA	<0.04
J16-HA04-1-S	HA04	7/23/94	2	BCA	<0.04
J16-HA05-1-S	HA05	7/23/94	2	BCA	<0.04
J16-HA06-1-S	HA06	7/23/94	2	BCA	<0.04
J16-HA07-1-S	HA07	7/23/94	2	BCA	<0.04
J16-HA08-1-S	HA08	7/23/94	2	BCA	0.048 J
J16-HA09-1-S	HA09	7/23/94	2	BCA	<0.04
J16-HA10-1-S	HA10	7/23/94	2	BCA	<0.04
J16-HA11-1-S	HA11	7/23/94	2	BCA	<0.04
J16-HA12-1-S	HA12	7/24/94	2	BCA	<0.04
J16-HA13-1-S	HA13	7/24/94	2	BCA	<0.04
J16-HA14-1-S	HA14	7/24/94	2	BCA	<0.04
J16-HA15-1-S	HA15	7/24/94	2	BCA	0.072 J
J16-HA16-1-S	HA16	7/24/94	2	BCA	<0.04
J16-HA17-1-S	HA17	7/25/94	2	BCA	<0.04
J16-HA18-1-S	HA18	7/25/94	2	BCA	<0.04
J16-HA19-1-S	HA19	7/25/94	2	BCA	<0.04
J16-HA20-1-S	HA20	7/25/94	2	BCA	<0.04
J16-SB01-1-S	SB01	8/22/94	9.75	BCA	<0.04
J16-SB02-1-S	SB02	8/22/94	11.75	BCA	<0.04
J16-SB03-1-S	SB03	8/22/94	11	BCA	<0.04
J16-SB04-1-S	SB04	8/22/94	10.25	BCA	<0.04
J16-SB05-1-S	SB05	8/22/94	11.75	BCA	<0.05

Analyses	28
Detections	2
Minimum Concentration	0.048
Maximum Concentration	0.072
HWAD - PCG	24
HWAD - PCG Hits	0
Maximum Background Concentration	0.108
Background Hits	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
J16-TP01-1-S	TP01	2/26/97	5	APCL	<0.069
J16-TP01-2-S	TP01	2/26/97	2.5	APCL	<0.07
J16-TP02-1-S	TP02	2/26/97	5	APCL	<0.072
J16-TP02-2-S	TP02	2/26/97	2.5	APCL	<0.071
J16-TP02-3-S	TP02	2/26/97	3	APCL	<0.07
J16-TR01-1-S	TR01	2/26/97	4	APCL	<0.071
J16-TR01-2-S	TR01	2/26/97	8	APCL	<0.071
J16-TR02-1-S	TR02	2/26/97	5	APCL	<0.07
J16-TR02-2-S	TR02	2/26/97	5	APCL	<0.071
J16-TR03-1-S	TR03	2/26/97	2	APCL	<0.071
J16-TR03-2-S	TR03	2/26/97	4	APCL	<0.071

Analyses	11
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
J16-DP138	HA08	7/23/94	2	BCA Field	<0.2
J16-DP147	HA14	7/24/94	2	BCA Field	<0.2
J16-DP279	SB03	8/22/94	11.25	BCA Field	<0.2
J16-HA01-1-S	HA01	7/23/94	2	BCA Field	<0.2
J16-HA02-1-S	HA02	7/23/94	2	BCA Field	<0.2
J16-HA03-1-S	HA03	7/23/94	2	BCA Field	<0.2
J16-HA04-1-S	HA04	7/23/94	2	BCA Field	<0.2
J16-HA05-1-S	HA05	7/23/94	2	BCA Field	<0.2
J16-HA06-1-S	HA06	7/23/94	2	BCA Field	<0.2
J16-HA07-1-S	HA07	7/23/94	2	BCA Field	<0.2
J16-HA08-1-S	HA08	7/23/94	2	BCA Field	<0.2
J16-HA09-1-S	HA09	7/23/94	2	BCA Field	<0.2
J16-HA10-1-S	HA10	7/23/94	2	BCA Field	1.1 J
J16-HA11-1-S	HA11	7/23/94	2	BCA Field	<0.2
J16-HA12-1-S	HA12	7/24/94	2	BCA Field	<0.2
J16-HA13-1-S	HA13	7/24/94	2	BCA Field	<0.2
J16-HA14-1-S	HA14	7/24/94	2	BCA Field	<0.2
J16-HA15-1-S	HA15	7/24/94	2	BCA Field	<0.2
J16-HA16-1-S	HA16	7/24/94	2	BCA Field	<0.2
J16-HA17-1-S	HA17	7/25/94	2	BCA Field	<0.2
J16-HA18-1-S	HA18	7/25/94	2	BCA Field	<0.2
J16-HA19-1-S	HA19	7/25/94	2	BCA Field	<0.2
J16-HA20-1-S	HA20	7/25/94	2	BCA Field	<0.2
J16-SB01-1-S	SB01	8/22/94	9.75	BCA Field	<0.2
J16-SB02-1-S	SB02	8/22/94	11.75	BCA Field	<0.2
J16-SB03-1-S	SB03	8/22/94	11	BCA Field	<0.2
J16-SB04-1-S	SB04	8/22/94	10.25	BCA Field	<0.2
J16-SB05-1-S	SB05	8/22/94	11.75	BCA Field	<0.2

Analyses	28
Detections	1
Minimum Concentration	1.1
Maximum Concentration	1.1
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
J16-TP01-1-S	TP01	2/26/97	5	APCL	<0.83	<0.38	<0.29	<0.15	NA
J16-TR01-2-S	TR01	2/26/97	8	APCL	<0.84	<0.39	<0.29	<0.16	NA
J16-TR02-2-S	TR02	2/26/97	10	APCL	<0.84	<0.39	<0.29	<0.16	NA
Analyses					3	3	3	3	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.

OC Pesticides and PCBs
Method 8081 (APCL)

Sample ID	Location ID	Sample Date	Depth (feet)	Lab	4,4-DDD	4,4-DDE	4,4-DDT	Aldrin	alpha-BHC	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	beta-BHC
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
J16-TP01-2-S	TP01	2/26/97	2.5	APCL	NA	NA	NA	NA	NA	<0.0028	<0.0035	<0.0065	<0.0076	<0.0059	<0.0041	<0.0072	NA
J16-TR01-1-S	TR01	2/26/97	4	APCL	NA	NA	NA	NA	NA	<0.0028	<0.0035	<0.0065	<0.0077	<0.0059	<0.0042	<07.300001E-03	NA
J16-TR02-1-S	TR02	2/26/97	5	APCL	NA	NA	NA	NA	NA	<0.0028	<0.0035	<0.0065	<0.0076	<0.0059	<0.0041	<0.0072	NA
Analyses					0	0	0	0	0	3	3	3	3	3	3	3	0
Detections					0	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	0
Maximum Concentration					0	0	0	0	0	0	0	0	0	0	0	0	0
HWAD - PCG					NE	NE	NE	NE	NE	25	25	25	25	25	25	25	NE
HWAD - PCG Hits					NE	NE	NE	NE	NE	0	0	0	0	0	0	0	NE

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

OC Pesticides and PCBs
Method 8081 (APCL)

Sample ID	Location ID	Sample Date	Depth (feet)	Lab	Chlordane	delta-BHC	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulfate	Endrin	Endrin aldehyde	Endrin ketone	gamma-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
J16-TP01-2-S	TP01	2/26/97	2.5	APCL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
J16-TR01-1-S	TR01	2/26/97	4	APCL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
J16-TR02-1-S	TR02	2/26/97	5	APCL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Analyses					0	0	0	0	0	0	0	0	0	0	0	0	0	0
Detections					0	0	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	0	0
Maximum Concentration					0	0	0	0	0	0	0	0	0	0	0	0	0	0
HWAD - PCG					NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
HWAD - PCG Hits					NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE

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	1,3-Dinitrobenzene	2,3-Dinitrotoluene	2,4,6-Trinitrotoluene	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Nitrotoluene	3-Nitrotoluene	4-Nitrotoluene	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
J16-DP138	HA08	7/23/94	2	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
J16-DP147	HA14	7/24/94	2	BCA Field	<0.5 UJ-	<0.25	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<50 R	<0.5
J16-DP279	SB03	8/22/94	11.25	BCA Field	<0.5 UJ-	<0.25 UJ-	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<50 R	<0.25
J16-HA01-1-S	HA01	7/23/94	2	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
J16-HA02-1-S	HA02	7/23/94	2	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
J16-HA03-1-S	HA03	7/23/94	2	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
J16-HA04-1-S	HA04	7/23/94	2	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
J16-HA05-1-S	HA05	7/23/94	2	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
J16-HA06-1-S	HA06	7/23/94	2	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
J16-HA07-1-S	HA07	7/23/94	2	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
J16-HA08-1-S	HA08	7/23/94	2	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
J16-HA09-1-S	HA09	7/23/94	2	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
J16-HA10-1-S	HA10	7/23/94	2	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
J16-HA11-1-S	HA11	7/23/94	2	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
J16-HA12-1-S	HA12	7/24/94	2	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
J16-HA13-1-S	HA13	7/24/94	2	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
J16-HA14-1-S	HA14	7/24/94	2	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
J16-HA15-1-S	HA15	7/24/94	2	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
J16-HA16-1-S	HA16	7/24/94	2	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
J16-HA17-1-S	HA17	7/25/94	2	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
J16-HA18-1-S	HA18	7/25/94	2	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
J16-HA19-1-S	HA19	7/25/94	2	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
J16-HA20-1-S	HA20	7/25/94	2	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
J16-SB01-1-S	SB01	8/22/94	9.75	BCA Field	<0.5 UJ-	<0.25 UJ-	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<50 R	<0.25
J16-SB02-1-S	SB02	8/22/94	11.75	BCA Field	<0.5 UJ-	<0.25 UJ-	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<50 R	<0.25
J16-SB03-1-S	SB03	8/22/94	11	BCA Field	<0.5 UJ-	<0.25 UJ-	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<50 R	<0.25
J16-SB04-1-S	SB04	8/22/94	10.25	BCA Field	<0.5 UJ-	<0.25 UJ-	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<50 R	<0.25
J16-SB05-1-S	SB05	8/22/94	11.75	BCA Field	<0.5 UJ-	<0.25 UJ-	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<50 R	<0.25
Analyses					28	28	0	28	28	28	28	28	28	28	28	28
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

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
Maximum Concentration					0	0	0	0	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.

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
J16-DP141	HA08	7/23/94	2	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
J16-DP148	HA14	7/24/94	2	BCA	<0.0004 UJ-	<0.0006 UJ-	<0.0002 UJ-	<0.0004 UJ-	<0.0002 UJ-	<0.0002 UJ-	<0.0008 UJ-	<0.0002 UJ-	<0.0006 UJ-	<0.0008 UJ-	<0.0002 UJ-	<0.0004 UJ-
J16-DP280	SB04	8/22/94	10.25	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
J16-DP283	SB05	8/22/94	11.75	BCA	<0.0004	<0.0006	<0.0002	<0.0004	<0.0002	<0.0002	<0.0009	<0.0002	<0.0006	<0.0009	<0.0002	<0.0004
Analyses					4	4	4	4	4	4	4	4	4	4	4	4
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	Chloromethane
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
J16-DP141	HA08	7/23/94	2	BCA	<0.0006	<0.0002	<0.0006	<0.0004	<0.0002	<0.0002	<0.0002	<0.0006	<0.0002	<0.0002	<0.0002	<0.0006
J16-DP148	HA14	7/24/94	2	BCA	<0.0006 UJ-	<0.0002 UJ-	<0.0006 UJ-	<0.0004 UJ-	<0.0002 UJ-	<0.0002 UJ-	<0.0002 UJ-	<0.0006 UJ-	<0.0002 UJ-	<0.0002 R	<0.0002 UJ-	<0.0006 UJ-
J16-DP280	SB04	8/22/94	10.25	BCA	<0.0006	<0.0002	<0.0006	<0.0004	<0.0002	<0.0002	<0.0002	<0.0006	<0.0002	<0.0002	<0.0002	<0.0006
J16-DP283	SB05	8/22/94	11.75	BCA	<0.0006	<0.0002	<0.0006	<0.0004	<0.0002	<0.0002	<0.0002	<0.0006	<0.0002	<0.0002	<0.0002	<0.0006
Analyses					4	4	4	4	4	4	4	4	4	4	4	4
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	10	NE	NE	NE	89	112	10	2000	NE	120	538
HWAD - PCG Hits					NE	0	NE	NE	NE	0	0	0	0	NE	0	0

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

VOCs
Method 8260 (BCA)

Sample ID	Location ID	Sample Date	Depth (feet)	Lab	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Ethylbenzene	Methylene chloride	Tetrachloroethene	Toluene	Total Xylene Isomers	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
J16-DP141	HA08	7/23/94	2	BCA	<0.0002	<0.0006	<0.0002	<0.0001	<0.0002	<0.0004	<0.0006	<0.0004	<0.0006	<0.0002	<0.0002	<0.001
J16-DP148	HA14	7/24/94	2	BCA	<0.0002 UJ-	<0.0006 UJ-	<0.0002 UJ-	<0.0001 UJ-	<0.0002 UJ-	340 J-	<0.0006 UJ-	2.5 J-	<0.0006 UJ-	<0.0002 UJ-	<0.0002 UJ-	<0.001 UJ-
J16-DP280	SB04	8/22/94	10.25	BCA	<0.0002	<0.0006	<0.0002	<0.0001	<0.0002	<0.0004	<0.0006	<0.0004	<0.0006	<0.0002	<0.0002	<0.001
J16-DP283	SB05	8/22/94	11.75	BCA	<0.0002	<0.0006	<0.0002	<0.0001	<0.0002	0.0012 J	<0.0006	0.0011 U	<0.0006	<0.0002	<0.0002	<0.001
Analyses					4	4	4	4	4	4	4	4	4	4	4	4
Detections					0	0	0	0	0	2	0	2	0	0	0	0
Minimum Concentration					0	0	0	0	0	0.0012	0	0.0011	0	0	0	0
Maximum Concentration					0	0	0	0	0	340	0	2.5	0	0	0	0
HWAD - PCG					NE	83	800	16000	8000	4800	15	16000	160000	NE	NE	10
HWAD - PCG Hits					NE	0	0	0	0	0	0	0	0	NE	NE	0

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

VOCs
Method 8260 (BCA)

Sample ID	Location ID	Sample Date	Depth (feet)	Lab	Trichlorofluoromethane	Vinyl chloride
					mg/kg	mg/kg
J16-DP141	HA08	7/23/94	2	BCA	<0.0001	<0.0002
J16-DP148	HA14	7/24/94	2	BCA	<0.0001 UJ-	<0.0002 UJ-
J16-DP280	SB04	8/22/94	10.25	BCA	<0.0001	<0.0002
J16-DP283	SB05	8/22/94	11.75	BCA	<0.0001	<0.0002
Analyses					4	4
Detections					0	0
Minimum Concentration					0	0
Maximum Concentration					0	0
HWAD - PCG					24000	24000
HWAD - PCG Hits					0	0

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

VOCs
Method 8260A (APCL)

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	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromoethane (EDB)
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
J16-TP01-1-S	TP01	2/26/97	5	APCL	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0004	<0.0002	<0.0001	<0.0005
J16-TP01-2-S	TP01	2/26/97	2.5	APCL	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0004	<0.0002	<0.0001	<0.0005
J16-TP02-1-S	TP02	2/26/97	5	APCL	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0004	<0.0002	<0.0001	<0.0005
J16-TP02-2-S	TP02	2/26/97	2.5	APCL	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0004	<0.0002	<0.0001	<0.0005
J16-TP02-3-S	TP02	2/26/97	3	APCL	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0004	<0.0002	<0.0001	<0.0005
J16-TR01-1-S	TR01	2/26/97	4	APCL	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0004	<0.0002	<0.0001	<0.0005
J16-TR01-2-S	TR01	2/26/97	8	APCL	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0004	<0.0002	<0.0001	<0.0005
J16-TR02-1-S	TR02	2/26/97	5	APCL	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0004	<0.0002	<0.0001	<0.0005
J16-TR02-2-S	TR02	2/26/97	5	APCL	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0004	<0.0002	<0.0001	<0.0005
J16-TR03-1-S	TR03	2/26/97	2	APCL	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0004	<0.0002	<0.0001	<0.0005
J16-TR03-2-S	TR03	2/26/97	4	APCL	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0004	<0.0002	<0.0001	<0.0005
Analyses					11	11	11	11	11	11	11	11	11	11	11	11
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	NE	NE	480	NE	NE	0.008
HWAD - PCG Hits					NE	0	0	NE	NE	NE	NE	NE	0	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-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	4-Chlorotoluene	4-Isopropyltoluene	Benzene
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
J16-TP01-1-S	TP01	2/26/97	5	APCL	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0002
J16-TP01-2-S	TP01	2/26/97	2.5	APCL	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0002
J16-TP02-1-S	TP02	2/26/97	5	APCL	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0002
J16-TP02-2-S	TP02	2/26/97	2.5	APCL	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0002
J16-TP02-3-S	TP02	2/26/97	3	APCL	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0002
J16-TR01-1-S	TR01	2/26/97	4	APCL	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0002
J16-TR01-2-S	TR01	2/26/97	8	APCL	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0002
J16-TR02-1-S	TR02	2/26/97	5	APCL	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0002
J16-TR02-2-S	TR02	2/26/97	5	APCL	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0002
J16-TR03-1-S	TR03	2/26/97	2	APCL	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0002
J16-TR03-2-S	TR03	2/26/97	4	APCL	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0002
Analyses					11	11	11	11	11	11	11	11	11	11	11	11
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					7200	NE	NE	NE	NE	NE	150	NE	NE	NE	NE	10
HWAD - PCG Hits					0	NE	NE	NE	NE	NE	0	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	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-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
J16-TP01-1-S	TP01	2/26/97	5	APCL	<0.0001	<0.0005	<0.0002	<0.0003	<0.0003	<0.0001	<0.0002	<0.0007	<0.0002	<0.0003	<0.0002	<0.0001
J16-TP01-2-S	TP01	2/26/97	2.5	APCL	<0.0001	<0.0005	<0.0002	<0.0003	<0.0003	<0.0001	<0.0002	<0.0007	<0.0002	<0.0003	<0.0002	<0.0001
J16-TP02-1-S	TP02	2/26/97	5	APCL	<0.0001	<0.0005	<0.0002	<0.0003	<0.0003	<0.0001	<0.0002	<0.0007	<0.0002	<0.0003	<0.0002	<0.0001
J16-TP02-2-S	TP02	2/26/97	2.5	APCL	<0.0001	<0.0005	<0.0002	<0.0003	<0.0003	<0.0001	<0.0002	<0.0007	<0.0002	<0.0003	<0.0002	<0.0001
J16-TP02-3-S	TP02	2/26/97	3	APCL	<0.0001	<0.0005	<0.0002	<0.0003	<0.0003	<0.0001	<0.0002	<0.0007	<0.0002	<0.0003	<0.0002	<0.0001
J16-TR01-1-S	TR01	2/26/97	4	APCL	<0.0001	<0.0005	<0.0002	<0.0003	<0.0003	<0.0001	<0.0002	<0.0007	<0.0002	<0.0003	<0.0002	<0.0001
J16-TR01-2-S	TR01	2/26/97	8	APCL	<0.0001	<0.0005	<0.0002	<0.0003	<0.0003	<0.0001	<0.0002	<0.0007	<0.0002	<0.0003	<0.0002	<0.0001
J16-TR02-1-S	TR02	2/26/97	5	APCL	<0.0001	<0.0005	<0.0002	<0.0003	<0.0003	<0.0001	<0.0002	<0.0007	<0.0002	<0.0003	<0.0002	<0.0001
J16-TR02-2-S	TR02	2/26/97	5	APCL	<0.0001	<0.0005	<0.0002	<0.0003	<0.0003	<0.0001	<0.0002	<0.0007	<0.0002	<0.0003	<0.0002	<0.0001
J16-TR03-1-S	TR03	2/26/97	2	APCL	<0.0001	<0.0005	<0.0002	<0.0003	<0.0003	<0.0001	<0.0002	<0.0007	<0.0002	<0.0003	<0.0002	<0.0001
J16-TR03-2-S	TR03	2/26/97	4	APCL	<0.0001	<0.0005	<0.0002	<0.0003	<0.0003	<0.0001	<0.0002	<0.0007	<0.0002	<0.0003	<0.0002	<0.0001
Analyses					11	11	11	11	11	11	11	11	11	11	11	11
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	NE	89	112	10	2000	NE	120	538	NE	NE
HWAD - PCG Hits					NE	NE	NE	0	0	0	0	NE	0	0	NE	NE

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

VOCs
Method 8260A (APCL)

Sample ID	Location ID	Sample Date	Depth (feet)	Lab	Dibromochloromethane mg/kg	Dibromochloropropane mg/kg	Dibromomethane mg/kg	Dichlorodifluoromethane mg/kg	Ethylbenzene mg/kg	Hexachlorobutadiene mg/kg	Isopropylbenzene mg/kg	m-&p-Xylenes mg/kg	Methylene chloride mg/kg	MTBE mg/kg	n-Butylbenzene mg/kg	n-Propylbenzene mg/kg
J16-TP01-1-S	TP01	2/26/97	5	APCL	<0.0002	<0.0009 UJ	<0.0005	<0.0002	<0.0001	<0.0002	<0.0002	<0.0005	<0.0007	<0.0002	<0.0002	<0.0001
J16-TP01-2-S	TP01	2/26/97	2.5	APCL	<0.0002	<0.0009	<0.0005	<0.0002	<0.0001	<0.0002	<0.0002	<0.0005	<0.0007	<0.0002	<0.0002	<0.0001
J16-TP02-1-S	TP02	2/26/97	5	APCL	<0.0002	<0.001	<0.0005	<0.0002	<0.0001	<0.0002	<0.0002	<0.0005	<0.0007	<0.0002	<0.0002	<0.0001
J16-TP02-2-S	TP02	2/26/97	2.5	APCL	<0.0002	<0.0009	<0.0005	<0.0002	<0.0001	<0.0002	<0.0002	<0.0005	<0.0007	<0.0002	<0.0002	<0.0001
J16-TP02-3-S	TP02	2/26/97	3	APCL	<0.0002	<0.0009	<0.0005	<0.0002	<0.0001	<0.0002	<0.0002	<0.0005	<0.0007	<0.0002	<0.0002	<0.0001
J16-TR01-1-S	TR01	2/26/97	4	APCL	<0.0002	<0.0009	<0.0005	<0.0002	<0.0001	<0.0002	<0.0002	<0.0005	<0.0007	<0.0002	<0.0002	<0.0001
J16-TR01-2-S	TR01	2/26/97	8	APCL	<0.0002	<0.0009 UJ	<0.0005	<0.0002	<0.0001	<0.0002	<0.0002	<0.0005	<0.0007	<0.0002	<0.0002	<0.0001
J16-TR02-1-S	TR02	2/26/97	5	APCL	<0.0002	<0.0009	<0.0005	<0.0002	<0.0001	<0.0002	<0.0002	<0.0005	<0.0007	<0.0002	<0.0002	<0.0001
J16-TR02-2-S	TR02	2/26/97	5	APCL	<0.0002	<0.0009	<0.0005	<0.0002	<0.0001	<0.0002	<0.0002	<0.0005	<0.0007	<0.0002	<0.0002	<0.0001
J16-TR03-1-S	TR03	2/26/97	2	APCL	<0.0002	<0.0009	<0.0005	<0.0002	<0.0001	<0.0002	<0.0002	<0.0005	<0.0007	<0.0002	<0.0002	<0.0001
J16-TR03-2-S	TR03	2/26/97	4	APCL	<0.0002	<0.0009	<0.0005	<0.0002	<0.0001	<0.0002	<0.0002	<0.0005	<0.0007	<0.0002	<0.0002	<0.0001
Analyses					11	11	11	11	11	11	11	11	11	11	11	11
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					83	NE	800	16000	8000	NE	NE	160000	4800	NE	NE	NE
HWAD - PCG Hits					0	NE	0	0	0	NE	NE	0	0	NE	NE	NE

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

VOCs
Method 8260A (APCL)

Sample ID	Location ID	Sample Date	Depth (feet)	Lab	Naphthalene	o-Xylene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl chloride
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
J16-TP01-1-S	TP01	2/26/97	5	APCL	<0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002
J16-TP01-2-S	TP01	2/26/97	2.5	APCL	<0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002
J16-TP02-1-S	TP02	2/26/97	5	APCL	<0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002
J16-TP02-2-S	TP02	2/26/97	2.5	APCL	<0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002
J16-TP02-3-S	TP02	2/26/97	3	APCL	<0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002
J16-TR01-1-S	TR01	2/26/97	4	APCL	<0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002
J16-TR01-2-S	TR01	2/26/97	8	APCL	<0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002
J16-TR02-1-S	TR02	2/26/97	5	APCL	<0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002
J16-TR02-2-S	TR02	2/26/97	5	APCL	<0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002
J16-TR03-1-S	TR03	2/26/97	2	APCL	<0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002
J16-TR03-2-S	TR03	2/26/97	4	APCL	<0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002
Analyses					11	11	11	11	11	11	11	11	11	11	11	11
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					3200	160000	NE	NE	NE	15	16000	NE	NE	10	24000	24000
HWAD - PCG Hits					0	0	NE	NE	NE	0	0	NE	NE	0	0	0

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

Explosives
Method 8330 (Datachem)

Sample ID	Location I	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
J16-DP139	HA08	7/23/94	2	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
J16-DP146	HA14	7/24/94	2	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
J16-DP278	SB03	8/22/94	11.25	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
J16-DP281	SB04	8/22/94	10.25	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					4	4	4	4	4	4	4	4	4	4	4	4
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	Tetryl	2-Amino-4,6-dinitrotoluene	4-Amino-2,6-dinitrotoluene
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
J16-TP01-1-S	TP01	2/26/97	5	APCL	<0.013	<0.026	<0.041	<0.027	<0.057	<0.073	<0.063	<0.073	<0.047	<0.056	<0.051	<0.046	NA	NA
J16-TP01-2-S	TP01	2/26/97	2.5	APCL	<0.013	<0.026	<0.041	<0.027	<0.057	<0.074	<0.064	<0.074	<0.047	<0.056	<0.051	<0.046	NA	NA
J16-TP02-1-S	TP02	2/26/97	5	APCL	<0.014	<0.027	<0.042	<0.028	<0.059	<0.076	<0.066	<0.076	<0.049	<0.058	<0.053	<0.048	NA	NA
J16-TP02-2-S	TP02	2/26/97	2.5	APCL	<0.014	<0.026	<0.042	<0.027	<0.058	<0.075	<0.065	<0.075	<0.048	<0.057	<0.052	<0.047	NA	NA
J16-TP02-3-S	TP02	2/26/97	3	APCL	<0.013	<0.026	<0.041	<0.027	<0.058	<0.074	<0.064	<0.074	<0.048	<0.057	<0.052	<0.047	NA	NA
J16-TR01-1-S	TR01	2/26/97	4	APCL	<0.013	<0.026	<0.042	<0.027	<0.058	<0.075	<0.064	<0.075	<0.048	<0.057	<0.052	<0.047	NA	NA
J16-TR01-2-S	TR01	2/26/97	8	APCL	<0.014	<0.026	<0.042	<0.027	<0.058	<0.075	<0.065	<0.075	<0.048	<0.057	<0.052	<0.047	NA	NA
J16-TR02-1-S	TR02	2/26/97	5	APCL	<0.013	<0.026	<0.041	<0.027	<0.058	<0.074	<0.064	<0.074	<0.047	<0.057	<0.051	<0.046	NA	NA
J16-TR02-2-S	TR02	2/26/97	5	APCL	<0.014	<0.026	<0.042	<0.027	<0.058	<0.075	<0.065	<0.075	<0.048	<0.057	<0.052	<0.047	NA	NA
J16-TR03-1-S	TR03	2/26/97	2	APCL	<0.013	<0.026	<0.042	<0.027	<0.058	<0.075	<0.064	<0.075	<0.048	<0.057	<0.052	<0.047	NA	NA
J16-TR03-2-S	TR03	2/26/97	4	APCL	<0.013	<0.026	<0.042	<0.027	<0.058	<0.075	<0.064	<0.075	<0.048	<0.057	<0.052	<0.047	NA	NA
Analyses					11	11	11	11	11	11	11	11	11	11	11	11	0	0
Detections					0	0	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	0	0
Maximum Concentration					0	0	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	NE	NE
HWAD - PCG Hits					0	0	0	0	0	0	0	0	0	0	0	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
J16-TP01-1-S	TP01	2/26/97	5	APCL	<0.69
J16-TP01-2-S	TP01	2/26/97	2.5	APCL	<0.7
J16-TP02-1-S	TP02	2/26/97	5	APCL	<0.72
J16-TP02-2-S	TP02	2/26/97	2.5	APCL	<0.71
J16-TP02-3-S	TP02	2/26/97	3	APCL	<0.7
J16-TR01-1-S	TR01	2/26/97	4	APCL	<0.71
J16-TR01-2-S	TR01	2/26/97	8	APCL	<0.71
J16-TR02-1-S	TR02	2/26/97	5	APCL	<0.7
J16-TR02-2-S	TR02	2/26/97	5	APCL	<0.71
J16-TR03-1-S	TR03	2/26/97	2	APCL	<0.71
J16-TR03-2-S	TR03	2/26/97	4	APCL	<0.71

Analyses	11
Detections	0
Minimum Concentration	0
Maximum Concentration	0
HWAD - PCG	NE
HWAD - PCG Hits	NE

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

Appendix D

J-16. View to southwest from north central portion of SWMU, showing cleared ground surface and charcoal-stained soil in middle ground. #R1-P22, 11/2/93

J-16. View to southwest from south end of SWMU of debris pile. #R1-P24, 11/2/93

SWMU J-16

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