APR 0 9 2003
ENVIRONMENTAL PROTECTION

Final Closure Decision Document

Paint Storage Locker Sheds, K08
Hawthorne Army Depot

DECISION DOCUMENT
Paint Storage Locker Sheds – K08
Hawthorne Army Depot
Hawthorne, Nevada
January 2003

1. PURPOSE OF DECISION DOCUMENT

1.1 Introduction

This decision document describes the rationale for the closure of Paint Storage Locker Sheds – K08 at the Hawthorne Army depot (HWAD), Hawthorne, Nevada. This decision document was prepared by the U.S. Army Corps of Engineers (USACE), Sacramento District and HWAD, with support from the Nevada Division of Environmental Protection (NDEP), Conservation and Natural Resources Department.

1.2 Site Description and Background

The Paint Storage Locker Sheds – K08 site consists of fifteen paint sheds or lockers located throughout HWAD. The structures are primarily constructed concrete storage sheds. Some structures are pre-manufactured hazardous materials cabinets (lockers). All of these sheds and cabinets were in use prior to 1980. Some locations are still in use; however, past practices may have included uncontrolled surface disposal outside the immediate areas of the shed. Paint splatter is evident on the outside walls and the ground adjacent to several of these structures. Access to the sites is restricted to authorized personnel only.

1.3 Chemicals of Concern

The chemicals of concern at Paint Storage Locker Sheds – K08 are total metals (cadmium, chromium, and lead) and semivolatile organic compounds (SVOCs).

2. SUMMARY OF SITE RISK

The site was evaluated using the Relative Risk Site Evaluation (RRSE) criteria and the score was low. Sixteen soil samples were taken. Analytical results indicated that the total metals concentrations at each site were typically elevated above background. Any paint sheds that were not sampled would be expected to exhibit similar metal concentrations.

3. SUMMARY OF REMEDIAL INVESTIGATIONS AND REMEDIAL ACTIONS

3.1 Relative Risk Site Evaluation (RRSE)

A Hazardous and Medical Waste Study and Relative Risk Site Evaluation were conducted at HWAD in July 2000. The purpose of the relative risk evaluation

was to provide sufficient data to score five HWAD sites, including the Paint Storage Locker Sheds – K08 site. The current Defense Environmental Restoration Program (DERP) management guidance requires that all sites eligible for cleanup must be scored and ranked to determine the degree of potential risk. The process combines information about the level of contamination, the possibility of contamination migration, and the probability that the contamination will be contacted by people and by ecologically sensitive receptors, to qualitatively address the risk each site potentially presents.

The U.S. Army Environmental Center maintains the Defense Site Environmental Restoration Tracking System (DSERTS) to track the Army's environmental sites and their status. Sites must be scored under the RRSE prior to being entered into the DSERTS database. The site had a low final score.

3.2 Actual Investigation

Sixteen surface soil samples were taken at a representative number of storage sheds. Typically, a four-point composite sample was collected at each site. The specific location of each sample point varied at each site due to the presence of paved surfaces around several locations. The sample point for each composite sample was collected at each side of the locker/shed. The results are tabulated in Appendix B – Analytical Results and show that the total metals concentrations at each site were typically elevated above background; however, the metals concentrations and chemicals of concern are below closure goals.

4. CONCLUSIONS AND RECOMMENDATIONS

The HWAD proposed closure goals for all analytes are listed in Appendix A. These closure goals were used in evaluating the detected chemicals. The elevated metals levels and chemicals of concern are all below the closure goals. It is recommended that the site be closed with respect to the chemicals of concern and without land use restrictions.

5. PUBLIC INVOLVEMENT

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

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

6. DECLARATION

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

US Army

26 Mar 03
Date

David W. Dornblaser
Lieutenant Colonel, US Army
Commanding

State of Nevada

6 May 03
Date

Paul Liebendorfer
Chief, Bureau of Federal Facilities

REFERENCES

EPA, 2001, U.S. Environmental Protection Agency, Region IX, Region 9 Preliminary Remediation Goals (PRGs).

HWAD, 2000, Hawthorne Army Depot, Memorandum, Subject: Request for Relative Risk Assessment on Sites at Hawthorne Army Depot, Hawthorne, Nevada.

ODUSD, 1994, Office of the Deputy Under Secretary of Defense (Environmental Security), Management Guidance for Execution of the FY 94/95 and Development of the FY96 Defense Environmental Restoration Program.

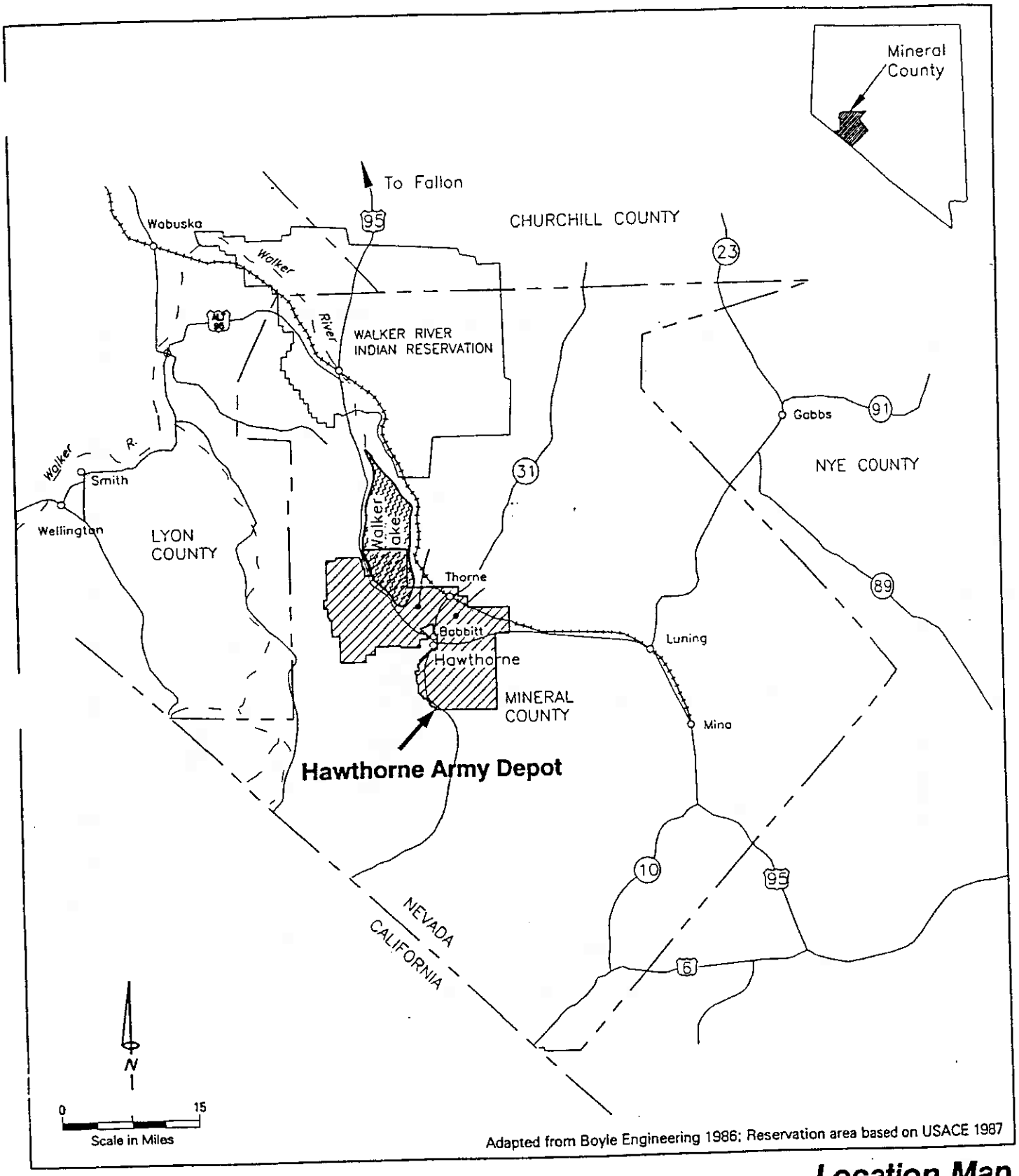
ODUSD, 1995, Office of the Deputy Under Secretary of Defense (Environmental Security), Revised Draft Relative Risk Site Evaluation Primer.

U.S. Army Center for Health Promotion and Prevention Medicine, 2000, Hazardous and Medical Waste Study No. 37-EF-5917-00, Relative Risk Site Evaluation, Hawthorne Army Depot, Nevada, 25-27 July 2000. SEE 3KJMU KIO FOR COPY

USACHPPM, 1996, United States Army Center for Health Promotion and Preventive Medicine, Information Paper: Estimation of Ground water Contamination Levels from Soil Data.

USACOE, 1998, U.S. Army Corps of Engineers, Final Remedial Investigation Report, Solid Waste Management Unit H04, Navyside Landfill, Hawthorne Army Depot, Hawthorne, NV, December.

FIGURES



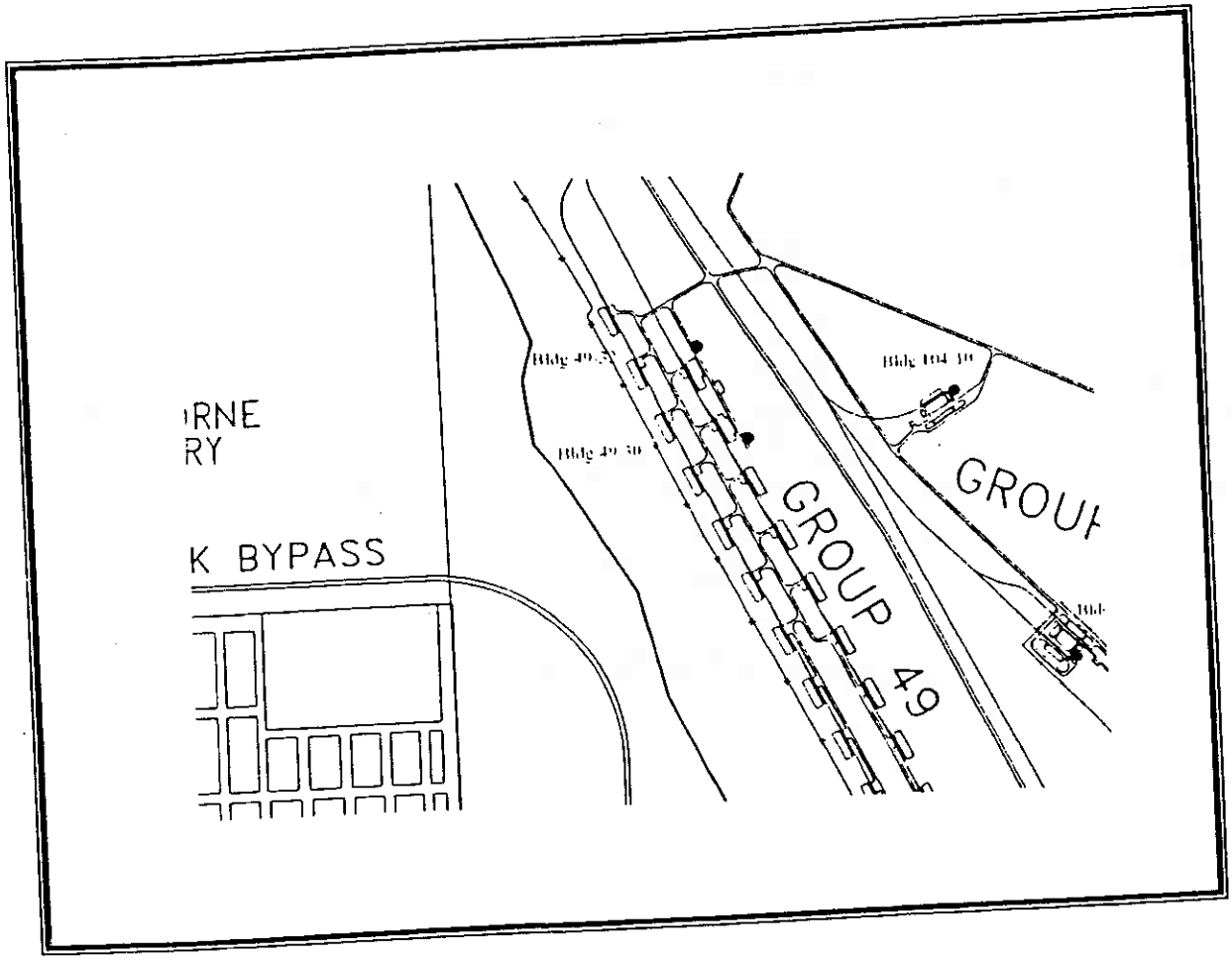
Location Map

Legend

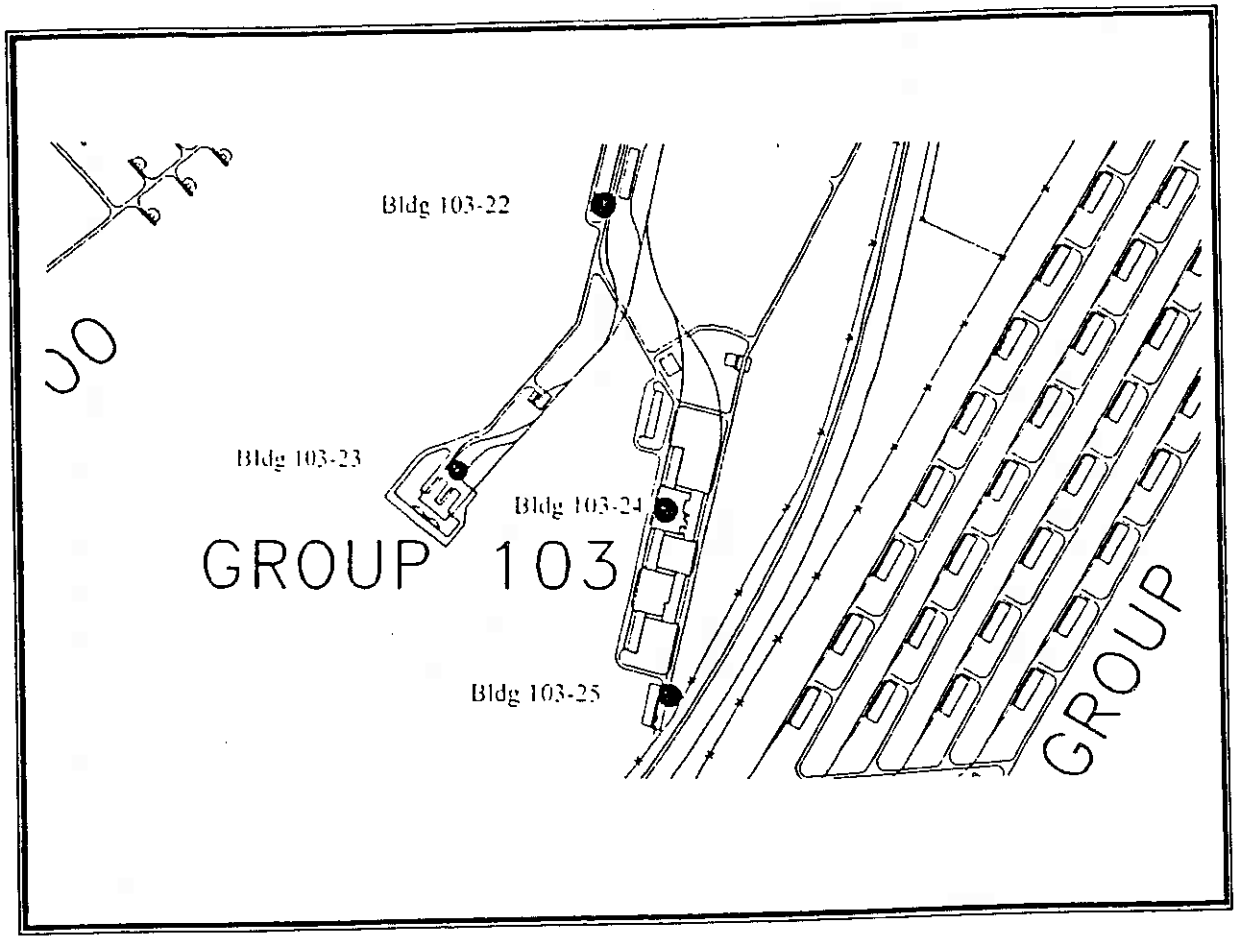
Hawthorne Army Depot

Hawthorne Army Depot
Hawthorne, Nevada

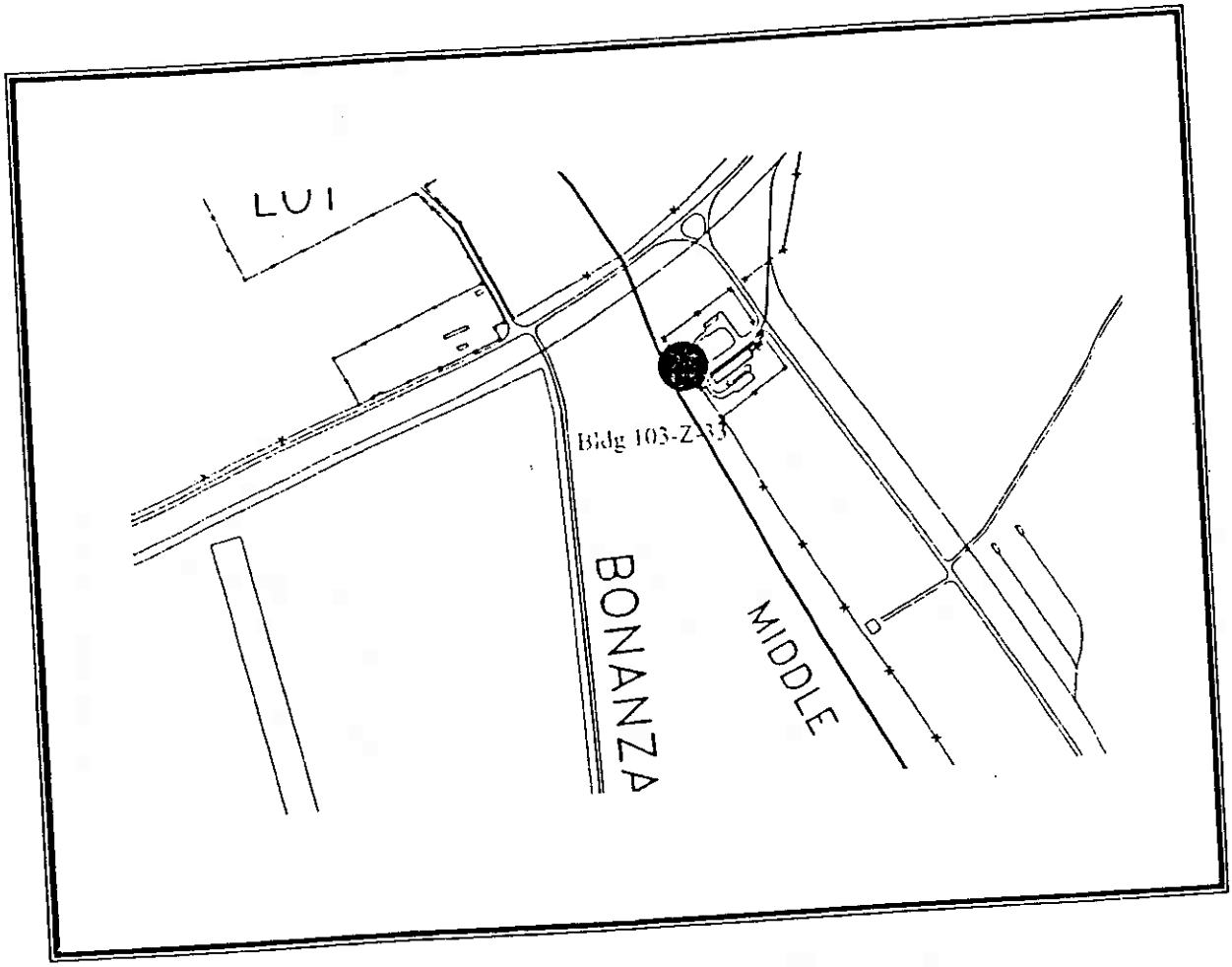
Tetra Tech, Inc.



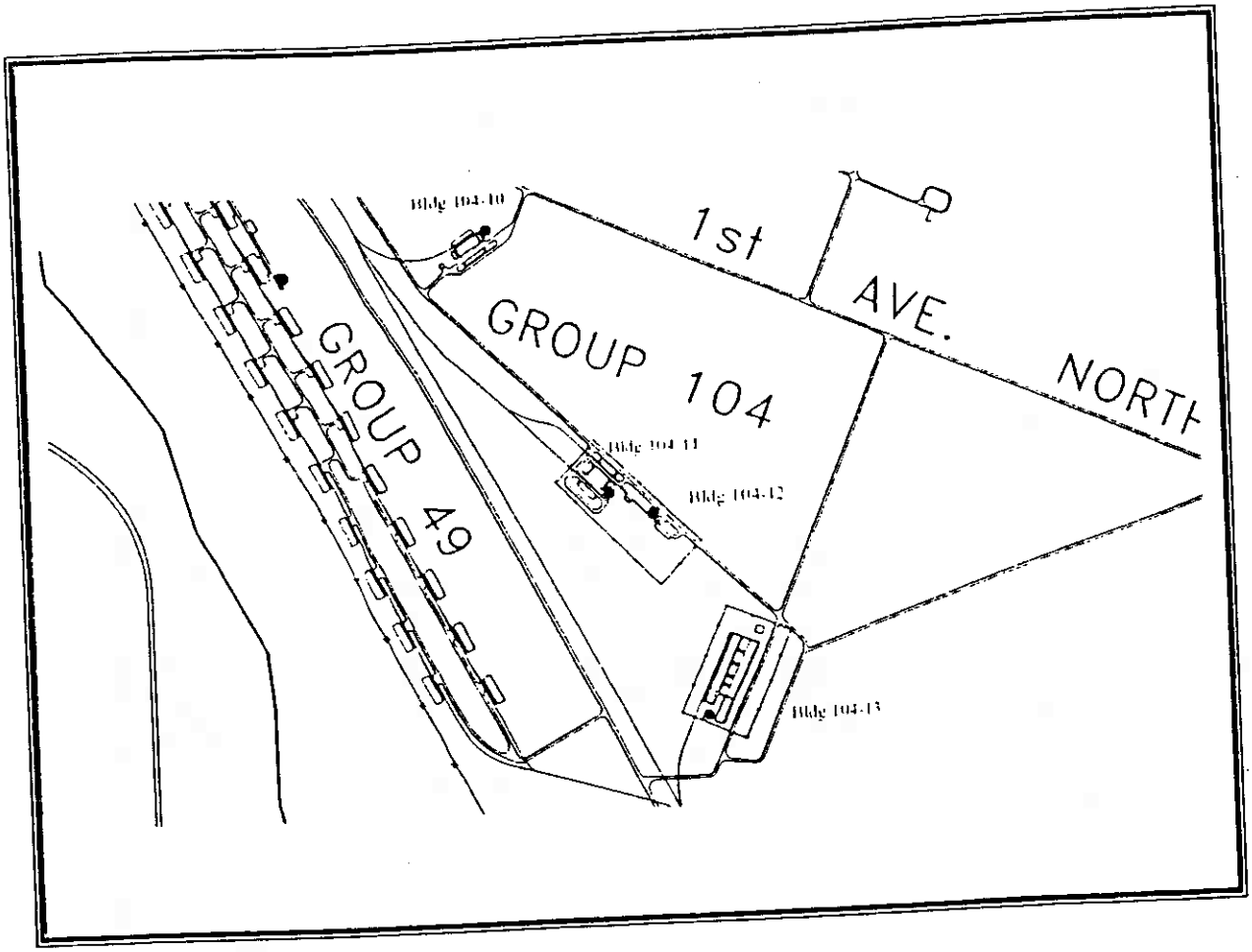
Group 49 Paint Storage Locker/Sheds Locations.



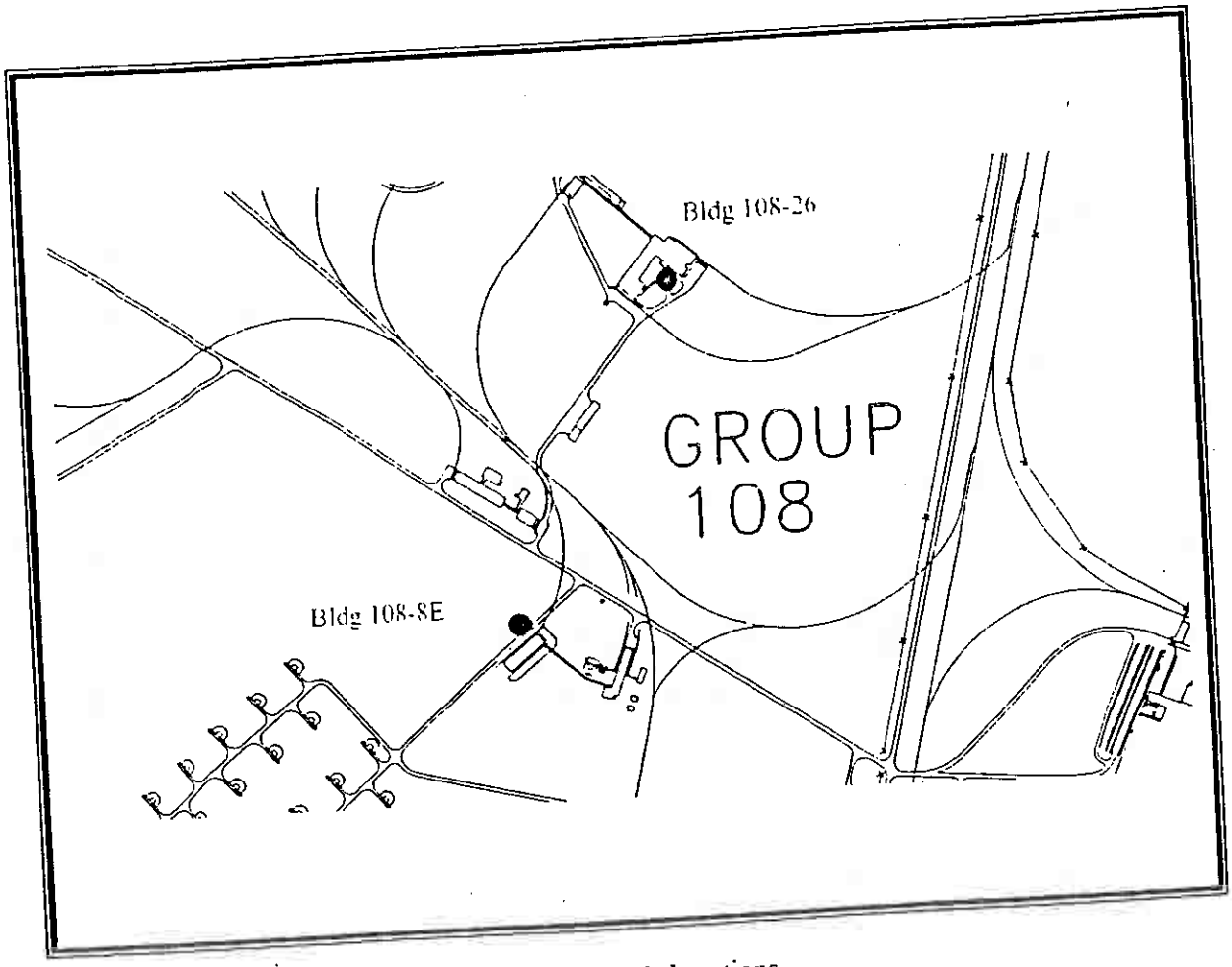
Group 103 Paint Storage Locker/Sheds Locations.



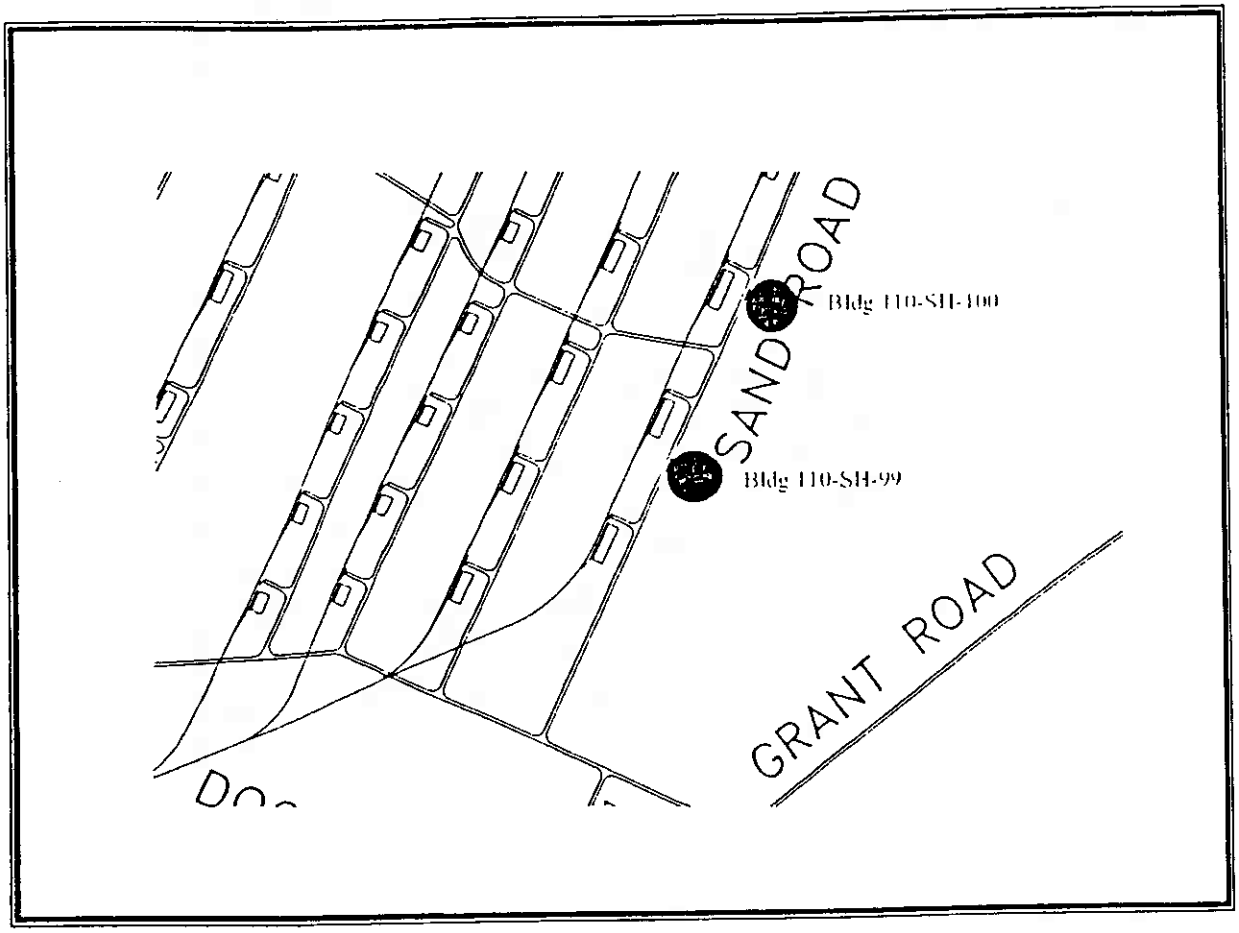
Group 103 Paint Storage Locker/Sheds Locations.



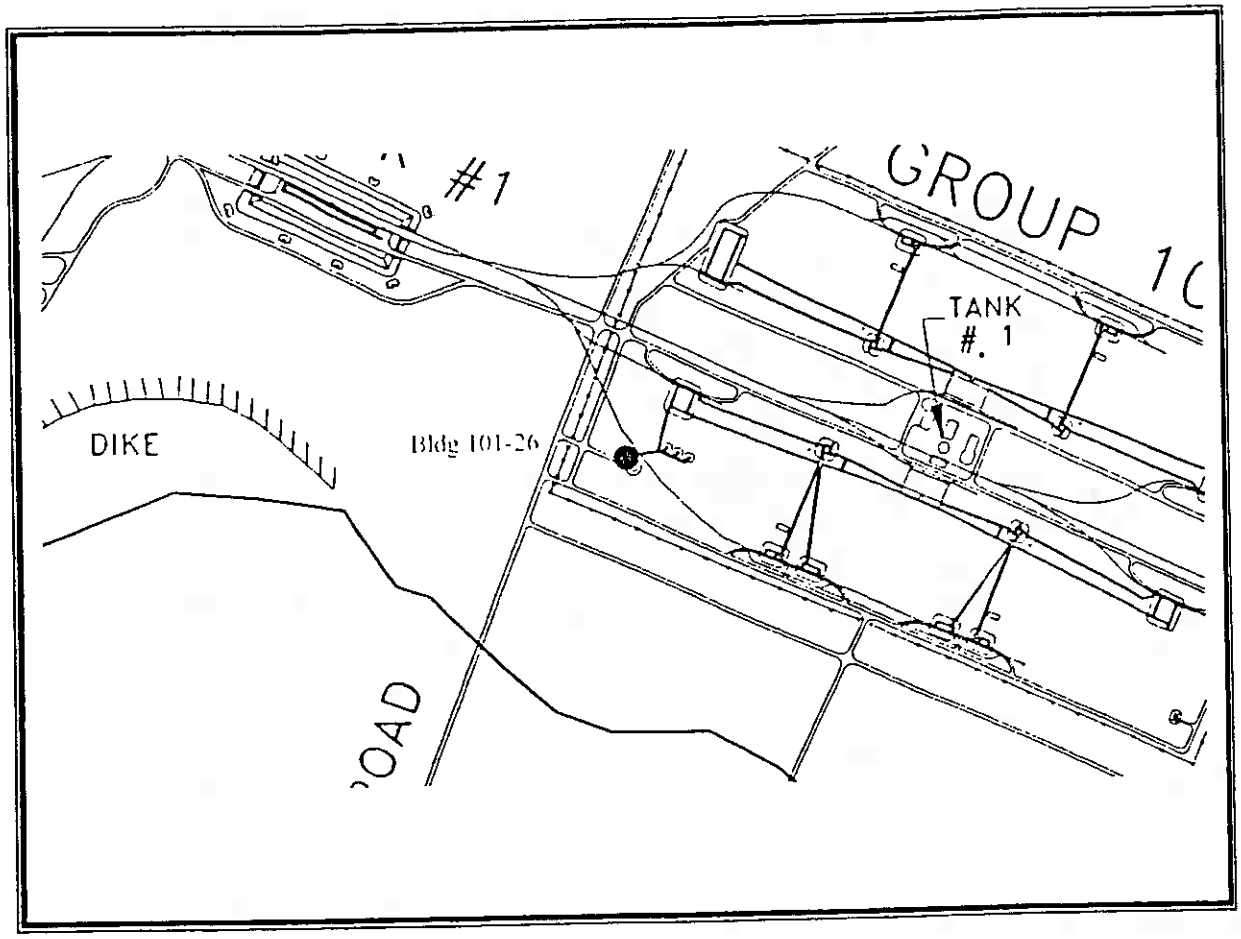
. Group 104 Paint Storage Locker/Sheds Locations.



Group 108 Paint Storage Locker/Sheds Locations.



Group 110 Paint Storage Locker/Sheds Locations.



Group 101 Paint Storage Locker/Sheds Locations.

APPENDIX A

PROPOSED CLOSURE GOALS

DEPARTMENT OF THE ARMY
Hawthorne Army Depot
1 South Maine Avenue
Hawthorne, NV 89415-9404

PLY TO
ATTENTION OF

Operations Review Division

16 JUL 2001

Mr. Ken Scarbrough
Division of Environmental Protection
Bureau of Federal Facilities
333 West Nye Lane
Carson City, Nevada 89706-0851

Dear Mr. Scarbrough

Proposed PRG (preliminary remediation goal) values for use at Hawthorne Army Depot.

The US Army Corps of Engineers has reviewed remediation goals for explosives contaminated soil at the Hawthorne Army Depot. We understand that these values were established by NDEP in January 1996 using the best available data from various sources. However, a recent review of these levels indicates that they may no longer be appropriate in lieu of changes to the Nevada Administrative Code. NAC 445A.2272 addresses soil action levels for contaminated sites. The Army believes that the EPA Region IX PRG values are applicable to the HWAD. Residential and industrial values should be appropriately applied depending on current and future land use.

The Army therefore requests your approval for adopting the EPA Region IX PRG values as shown in the enclosed table.

If you have any questions or need additional information, please feel free to contact Mr. Jim Lukasko or Ms. Sophie Ngu at 916-557-5392/7153, respectively.

Point of contact is Mr. Herman Millsap, SMAHW-OR, (775) 945-7317.

Sincerely,

SIGNED
Vernon L. Shankle, P.E.
Chief, Operations Review Division

Enclosure

Copies Furnished:

Sacramento District, Corps of Engineers, 1325 J St, CESPK-PM-H/(Ms. Sophie Ngu), CESPK-ED-EF/(Mr. Jim Lukasko), Sacramento, California 95814-2922

ORIGINATOR Millsap DATE 16 July 2001

Hawthorne Army Depot				
		NDEP established Soil Action Level, January 1996	Proposed EPA PRG table dated 11/01/00	
Contaminant	Casno	PCG	R-PRG's	I-PRG's
		mg/kg	mg/kg	mg/kg
1,1,1-Trichloroethane	71-55-6	7200	630	1400
1,1,2,2-Tetrachloroethane	79-34-5	35	0.38	0.9
1,2,3-Trichloropropane	96-18-4	480	0.0014	0.0031
1,2-Dibromoethane (EDB)	106-93-4	0.008	0.0069	0.048
1,2-Dichlorobenzene	95-50-1	7200	370	370
1,3,5-Trinitrobenzene	99-35-4	4	1800	26000
1,3-Dinitrobenzene	99-65-0	8	6.1	88
1,4-Dichlorobenzene	106-46-7	150	3.4	8.1
2,3,7,8-TCDD	1746-01-6	0.000005	0.0000039	0.000027
2,4,6-Trinitrotoluene	1180-96-7	233	16	82
2,4-Dinitrotoluene	121-14-2	2.6	120	1800
2,6-Dinitrotoluene	606-20-2	80	61	880
m-Nitrotoluene	88-72-2	800	370	1000
o-Nitrotoluene	99-08-1	800	370	1000
p-Nitrotoluene	99-99-0	800	370	1000
Acenaphthene	83-32-9	4800	N/A	N/A
Acetone	67-64-1	800	1600	6200
Aluminum	7429-90-5	80000	76000	100000
Anthracene	120-12-7	24000	N/A	N/A
Aroclor-1016	12674-11-2	25	3.9	29
Aroclor-1221	11104-28-2	25	0.22	1
Aroclor-1232	11141-16-5	25	0.22	1
Aroclor-1242	53469-21-9	25	0.22	1
Aroclor-1248	12672-29-6	25	0.22	1
Aroclor-1254	11097-96-1	25	0.22	1
Aroclor-1260	11096-82-5	25	0.22	1
Arsenic	7440-38-2	100	22	440
Barium	7440-39-3	2000	5400	100000
Benzene	71-43-2	10	0.65	1.5
Benzo(a)anthracene	56-55-3	0.96	N/A	N/A
Benzo(a)pyrene	50-32-8	0.1	N/A	N/A
Benzo(b)fluoranthene	205-99-2	0.96	N/A	N/A
Benzo(k)fluoranthene	207-08-9	10	N/A	N/A
Beryllium	7440-41-7	1	150	2200
bis(2-Chloroisopropyl)-ether	108-60-1	3200	2.9	8.1
bis(2-Ethylhexyl)-phthalate	117-81-7	1600	35	180
Bromoform	75-25-2	89	62	310
Bromomethane	74-83-9	112	3.9	13
Butyl benzyl phthalate	85-68-7	16000	12000	100000
C11-C22 (Diesel)	68834-30-5	100	N/A	N/A
Cadmium	7440-43-9	20	37	810
Carbon tetrachloride	56-23-5	10	0.24	0.53
Chlorobenzene	108-90-7	2000	150	540
Chloroform	67-66-3	120	0.24	0.52
Chloromethane	74-87-3	538	1.2	2.7
Chromium	7440-47-3	20	210	450
Chrysene	218-01-9	96	N/A	N/A
Dibenz(a,h)anthracene	53-70-3	0.96	N/A	N/A
Dibromochloromethane	124-48-1	83	1.1	2.7
Dibromomethane	74-95-3	800		
Dibutyl-phthalate	84-74-2	8000	6100	88000

Hawthorne Army Depot		NDEP established Soil Action Level, January 1996	Proposed EPA PRG table dated 11/01/00	
Contaminant	Casno	PCG mg/kg	R-PRG's mg/kg	I-PRG's mg/kg
Dichlorodifluoromethane	75-71-8	16000	94	310
Diesel Fuel	11-84-7	100	N/A	N/A
Diethyl phthalate	84-66-2	64000	49000	100000
Ethylbenzene	100-41-4	8000	230	230
Fluoranthene	206-44-0	3200	N/A	N/A
Fluorene	86-73-7	3200	N/A	N/A
√ HMX √	2691-41-0	4000	3100	44000
Lead	7439-92-1	100	400	750
m- & p-Xylene(s)	TT015	160000	N/A	N/A
Mercury	7439-97-6	24	23	610
Methylene Chloride	75-09-2	4800	8.9	21
Naphthalene	91-20-3	3200	N/A	N/A
Nitrate as N	14797-55-8	128000	N/A	N/A
Nitrobenzene	98-95-3	40	20	110
o-Xylene	95-47-6	160000	N/A	N/A
Phenol	108-95-2	48000	37000	100000
√ Picric Acid	88-89-1	7	N/A	N/A
Pyrene	129-00-0	2400	N/A	N/A
√ RDX √	121-82-4	64	4.4	22
Selenium	7782-49-2	20	390	10000
Silver	7440-22-4	100	390	10000
Tetrachloroethene	127-18-4	15	5.7	19
Tetryl	479-45-8	800	N/A	N/A
Toluene	108-88-3	16000	520	520
Total xylenes	1330-20-7	160000	N/A	N/A
Xylenes	79-01-6	10	210	210
Trichlorofluoromethane	75-69-4	24000	390	2000
Vinyl chloride	75-01-4	24000	0.15	0.83

√ Nitrobenzene

√ 4-Amino-2,6-dinitrotoluene (4-Am-DNT)

√ 2-Amino-4,6-dinitrotoluene (2-Am-DNT)

APPENDIX B

ANALYTICAL DATA

Field ID: 49-30 **DLS ID:** 1279037

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Arsenic	7.56 mg/Kg		SW-846/EPA 6010B	0025	16-Aug-00
Cadmium	<1.99 mg/Kg	1.99	SW-846/EPA 6010B	0025	16-Aug-00
Chromium	25.5 mg/Kg		SW-846/EPA 6010B	0025	16-Aug-00
Lead	240 mg/Kg		SW-846/EPA 6010B	0025	16-Aug-00

DLS Final Analytical Report, HAWTHORNE

Program 37, SUBJONO 5917, DLS WO# 1279, Report Serial No. 55298, 8/25/00

Field ID: 49-32 **DLS ID:** 1279036

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Arsenic	5.20 mg/Kg		SW-846/EPA 6010B	0025	16-Aug-00
Cadmium	3.80 mg/Kg		SW-846/EPA 6010B	0025	16-Aug-00
Chromium	28.3 mg/Kg		SW-846/EPA 6010B	0025	16-Aug-00
Lead	130 mg/Kg		SW-846/EPA 6010B	0025	16-Aug-00

ANALYTICAL DATA REPORT

(FORMAT OPTION 1)
Sorted by Field ID

Field ID: 101-26 **DLS ID:** 1279038

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Arsenic	6.56 mg/Kg		SW-846/EPA 6010B	0025	16-Aug-00
Cadmium	<1.98 mg/Kg	1.98	SW-846/EPA 6010B	0025	16-Aug-00
Chromium	5.56 mg/Kg		SW-846/EPA 6010B	0025	16-Aug-00
Lead	53.0 mg/Kg		SW-846/EPA 6010B	0025	16-Aug-00

DLS Final Analytical Report, HAWTHORNE

Program 37, SUBJONO 5917, DLS WO# 1279, Report Serial No. 55298, 8/25/00

Field ID: 103-22 **DLS ID:** 1279004

[illegible]	[illegible]	METHOD REPORTING LIMIT	ANALYTICAL METHOD	[illegible]	DATE ANALYZED
Arsenic	7.60 mg/Kg		SW-846/EPA 6010B	0025	16-Aug-00
Cadmium	3.50 mg/Kg		SW-846/EPA 6010B	0025	16-Aug-00
Chromium	17.7 mg/Kg		SW-846/EPA 6010B	0025	16-Aug-00
Lead	271 mg/Kg		SW-846/EPA 6010B	0025	16-Aug-00

DLS Final Analytical Report, HAWTHORNE

Program 37, SUBJONO 5917, DLS WO# 1279, Report Serial No. 55298, 8/25/00

Field ID: 103-23 **DLS ID:** 1279003

[illegible]	[illegible]	METHOD REPORTING LIMIT	ANALYTICAL METHOD	[illegible]	DATE [illegible]
Arsenic	8.37 mg/Kg		SW-846/EPA 6010B	0025	16-Aug-00
Cadmium	2.29 mg/Kg		SW-846/EPA 6010B	0025	16-Aug-00
Chromium	21.0 mg/Kg		SW-846/EPA 6010B	0025	16-Aug-00
Lead	64.1 mg/Kg		SW-846/EPA 6010B	0025	16-Aug-00

DLS Final Analytical Report, HAWTHORNE

Program 37, SUBJONO 5917, DLS WO# 1279, Report Serial No. 55298, 8/25/00

Field ID: 103-24 **DLS ID:** 1279002

[illegible]	RESULTS	REPORTING LIMIT	METHOD	ANALYST	DATE ANALYZED
Arsenic	7.80 mg/Kg		SW-846/EPA 6010B	0025	16-Aug-00
Cadmium	17.2 mg/Kg		SW-846/EPA 6010B	0025	16-Aug-00
Chromium	351 mg/Kg		SW-846/EPA 6010B	0025	16-Aug-00
Lead	601 mg/Kg		SW-846/EPA 6010B	0025	16-Aug-00

Exceeds residential industrial levels

DLS Final Analytical Report, HAWTHORNE

Program 37, SUBJONO 5917, DLS WO# 1279, Report Serial No. 55298, 8/25/00

Field ID: 103-25 **DLS ID:** 1279001

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Arsenic	9.91 mg/Kg		SW-846/EPA 6010B	0025	16-Aug-00
Cadmium	2.00 mg/Kg		SW-846/EPA 6010B	0025	16-Aug-00
Chromium	13.9 mg/Kg		SW-846/EPA 6010B	0025	16-Aug-00
Lead	110 mg/Kg		SW-846/EPA 6010B	0025	16-Aug-00

Field ID: 103-33 **DLS ID:** 1279039

[illegible]	[illegible]	METHOD REPORTING LIMIT	ANALYTICAL METHOD	[illegible]	DATE ANALYZED
Arsenic	9.03 mg/Kg		SW-846/EPA 6010B	0025	16-Aug-00
Cadmium	<2.01 mg/Kg	2.01	SW-846/EPA 6010B	0025	16-Aug-00
Chromium	10.1 mg/Kg		SW-846/EPA 6010B	0025	16-Aug-00
Lead	110 mg/Kg		SW-846/EPA 6010B	0025	16-Aug-00

DLS Final Analytical Report, HAWTHORNE

Program 37, SUBJONO 5917, DLS WO# 1279, Report Serial No. 55298, 8/25/00

Field ID: 104-10 **DLS ID:** 1279008

[illegible]	[illegible]	METHOD REPORTING LIMIT	ANALYTICAL METHOD	[illegible]	[illegible]
Arsenic	5.59 mg/Kg		SW-846/EPA 6010B	0025	16-Aug-00
Cadmium	6.69 mg/Kg		SW-846/EPA 6010B	0025	16-Aug-00
Chromium	23.7 mg/Kg		SW-846/EPA 6010B	0025	16-Aug-00
Lead	170 mg/Kg		SW-846/EPA 6010B	0025	16-Aug-00

Field ID: 104-11 **DLS ID:** 1279007

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Arsenic	10.3 mg/Kg		SW-846/EPA 6010B	0025	16-Aug-00
Cadmium	<1.99 mg/Kg	1.99	SW-846/EPA 6010B	0025	16-Aug-00
Chromium	19.0 mg/Kg		SW-846/EPA 6010B	0025	16-Aug-00
Lead	91.2 mg/Kg		SW-846/EPA 6010B	0025	16-Aug-00

Field ID: 104-12 **DLS ID:** 1279006

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Arsenic	6.61 mg/Kg		SW-846/EPA 6010B	0025	16-Aug-00
Cadmium	<2.00 mg/Kg	2.00	SW-846/EPA 6010B	0025	16-Aug-00
Chromium	6.41 mg/Kg		SW-846/EPA 6010B	0025	16-Aug-00
Lead	230 mg/Kg		SW-846/EPA 6010B	0025	16-Aug-00

Field ID: 104-13 **DLS ID:** 1279005

Analyte	Result	Method Reporting Limit	Analytical Method	Analyst	Date Analyzed
Arsenic	7.80 mg/Kg		SW-846/EPA 6010B	0025	16-Aug-00
Cadmium	<2.00 mg/Kg	2.00	SW-846/EPA 6010B	0025	16-Aug-00
Chromium	8.60 mg/Kg		SW-846/EPA 6010B	0025	16-Aug-00
Lead	58.1 mg/Kg		SW-846/EPA 6010B	0025	16-Aug-00

DLS Final Analytical Report, HAWTHORNE

Program 37, SUBJONO 5917, DLS WO# 1279, Report Serial No. 55298, 8/25/00

Field ID: 108-26 DLS ID: 1279010

ANALYTE	RESULT	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Arsenic	7.90 mg/Kg		SW-846/EPA 6010B	0025	16-Aug-00
Cadmium	<2.00 mg/Kg	2.00	SW-846/EPA 6010B	0025	16-Aug-00
Chromium	85.1 mg/Kg		SW-846/EPA 6010B	0025	16-Aug-00
Lead	380 mg/Kg		SW-846/EPA 6010B	0025	16-Aug-00

Field ID: 108-8E **DLS ID:** 1279009

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Arsenic	10.3 mg/Kg		SW-846/EPA 6010B	0025	16-Aug-00
Cadmium	1.99 mg/Kg		SW-846/EPA 6010B	0025	16-Aug-00
Chromium	18.2 mg/Kg		SW-846/EPA 6010B	0025	16-Aug-00
Lead	102 mg/Kg		SW-846/EPA 6010B	0025	16-Aug-00

Field ID: 110-99 **DLS ID:** 1279012

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Arsenic	6.58 mg/Kg		SW-846/EPA 6010B	0025	16-Aug-00
Cadmium	<1.99 mg/Kg	1.99	SW-846/EPA 6010B	0025	16-Aug-00
Chromium	22.4 mg/Kg		SW-846/EPA 6010B	0025	16-Aug-00
Lead	140 mg/Kg		SW-846/EPA 6010B	0025	16-Aug-00

Field ID: 110-100 **DLS ID:** 1279011

[illegible]	[illegible]	METHOD [illegible]	ANALYTICAL METHOD	[illegible]	[illegible]
Arsenic	6.75 mg/Kg		SW-846/EPA 6010B	0025	16-Aug-00
Cadmium	<1.98 mg/Kg	1.98	SW-846/EPA 6010B	0025	16-Aug-00
Chromium	<4.96 mg/Kg	4.96	SW-846/EPA 6010B	0025	16-Aug-00
Lead	37.6 mg/Kg		SW-846/EPA 6010B	0025	16-Aug-00

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number: 49-32

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mioduski

Profile: 25469-591 Site: Hawthorn Code: E8270 Units: ug/kg

Matrix: (soil/water) SOIL Lab Sample ID: 1279036

Sample wt/vol: 30.013 (g/ml) G Lab File ID: S4S88041.D

Level: (low/med) LOW Date Collected: 07/25/00

% Moisture: 0.2 decanted:(Y/N) N Date Extracted: 08/01/00

Concentrated Extract Volume: 3600 (uL) Date Analyzed: 08/04/00

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
121-14-2	2,4-Dinitrotoluene	1200	U
100-02-7	4-Nitrophenol	2400	U
86-73-7	Fluorene	1200	U
7005-72-3	4-Chlorophenyl-phenylether	1200	U
84-66-2	Diethylphthalate	1200	U
100-01-6	4-Nitroaniline	2400	U
534-52-1	4,6-Dinitro-2-methylphenol	2400	U
86-30-6	n-Nitrosodiphenylamine(1)	1200	U
101-55-3	4-Bromophenyl-phenylether	1200	U
118-74-1	Hexachlorobenzene	1200	U
87-86-5	Pentachlorophenol	2400	U
85-01-8	Phenanthrene	1200	U
120-12-7	Anthracene	1200	U
84-74-2	Di-n-butylphthalate	1200	U
206-44-0	Fluoranthene	1200	U
129-00-0	Pyrene	1200	U
85-68-7	Butylbenzylphthalate	1200	U
56-55-3	Benzo[a]anthracene	1200	U
218-01-9	Chrysene	1200	U
117-81-7	bis(2-Ethylhexyl)phthalate	710	JB
117-84-0	Di-n-octylphthalate	1200	U
205-99-2	Benzo[b]fluoranthene	1200	U
207-08-9	Benzo[k]fluoranthene	1200	U
50-32-8	Benzo[a]pyrene	1200	U
193-39-5	Indeno[1,2,3-cd]pyrene	1200	U
53-70-3	Dibenz[a,h]anthracene	1200	U
191-24-2	Benzo[g,h,i]perylene	1200	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number: 49-30

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mioduski

Profile: 25469-591 Site: Hawthorn Code: E8270 Units: ug/kg

Matrix: (soil/water) SOIL Lab Sample ID: 1279037

Sample wt/vol: 30.016 (g/ml) G Lab File ID: S4S88034.D

Level: (low/med) LOW Date Collected: 07/25/00

% Moisture: 0.1 decanted:(Y/N) N Date Extracted: 08/01/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/03/00

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
62-75-9	N-Nitrosodimethylamine	330	U
111-44-4	bis(2-Chloroethyl)ether	330	U
108-95-2	Phenol	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
95-50-1	1,2-Dichlorobenzene	330	U
100-51-6	Benzyl alcohol	330	U
39638-32-9	bis(2-chloroisopropyl)ether	330	U
95-48-7	2-Methylphenol	330	U
67-72-1	Hexachloroethane	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
106-44-5	4-Methylphenol	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	330	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	330	U
208-96-8	Acenaphthylene	330	U
131-11-3	Dimethylphthalate	330	U
606-20-2	2,6-Dinitrotoluene	330	U
83-32-9	Acenaphthene	330	U
99-09-2	3-Nitroaniline	670	U
51-28-5	2,4-Dinitrophenol	670	U
132-64-9	Dibenzofuran	330	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number: 49-30

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mioduski

Profile: 25469-591 Site: Hawthorn Code: E8270 Units: ug/kg

Matrix: (soil/water) SOIL

Lab Sample ID: 1279037

Sample wt/vol: 30.016 (g/ml) G

Lab File ID: S4S88034.D

Level: (low/med) LOW

Date Collected: 07/25/00

% Moisture: 0.1 decanted:(Y/N) N

Date Extracted: 08/01/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/03/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	330	U
100-02-7	4-Nitrophenol	670	U
86-73-7	Fluorene	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
84-66-2	Diethylphthalate	330	U
100-01-6	4-Nitroaniline	670	U
534-52-1	4,6-Dinitro-2-methylphenol	670	U
86-30-6	n-Nitrosodiphenylamine(1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	670	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
56-55-3	Benzo[a]anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	390	B
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo[b]fluoranthene	330	U
207-08-9	Benzo[k]fluoranthene	330	U
50-32-8	Benzo[a]pyrene	330	U
193-39-5	Indeno[1,2,3-cd]pyrene	330	U
53-70-3	Dibenz[a,h]anthracene	330	U
191-24-2	Benzo[g,h,i]perylene	330	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number: 101-26

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mioduski

Profile: 25469-591 Site: Hawthorn Code: E8270 Units: ug/kg

Matrix: (soil/water) SOIL Lab Sample ID: 1279038

Sample wt/vol: 30.011 (g/ml) G Lab File ID: S4S88012.D

Level: (low/med) LOW Date Collected: 07/25/00

% Moisture: 0.2 decanted:(Y/N) N Date Extracted: 08/01/00

Concentrated Extract Volume: 2500 (uL) Date Analyzed: 08/02/00

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
62-75-9	N-Nitrosodimethylamine	830	U
111-44-4	bis(2-Chloroethyl)ether	830	U
108-95-2	Phenol	830	U
95-57-8	2-Chlorophenol	830	U
541-73-1	1,3-Dichlorobenzene	830	U
106-46-7	1,4-Dichlorobenzene	830	U
95-50-1	1,2-Dichlorobenzene	830	U
100-51-6	Benzyl alcohol	830	U
39638-32-9	bis(2-chloroisopropyl)ether	830	U
95-48-7	2-Methylphenol	830	U
67-72-1	Hexachloroethane	830	U
621-64-7	N-Nitroso-di-n-propylamine	830	U
106-44-5	4-Methylphenol	830	U
98-95-3	Nitrobenzene	830	U
78-59-1	Isophorone	830	U
88-75-5	2-Nitrophenol	830	U
105-67-9	2,4-Dimethylphenol	830	U
111-91-1	bis(2-Chloroethoxy)methane	830	U
120-83-2	2,4-Dichlorophenol	830	U
120-82-1	1,2,4-Trichlorobenzene	830	U
91-20-3	Naphthalene	830	U
106-47-8	4-Chloroaniline	830	U
87-68-3	Hexachlorobutadiene	830	U
59-50-7	4-Chloro-3-methylphenol	830	U
91-57-6	2-Methylnaphthalene	830	U
77-47-4	Hexachlorocyclopentadiene	830	U
88-06-2	2,4,6-Trichlorophenol	830	U
95-95-4	2,4,5-Trichlorophenol	830	U
91-58-7	2-Chloronaphthalene	830	U
88-74-4	2-Nitroaniline	830	U
208-96-8	Acenaphthylene	830	U
131-11-3	Dimethylphthalate	830	U
606-20-2	2,6-Dinitrotoluene	830	U
83-32-9	Acenaphthene	830	U
99-09-2	3-Nitroaniline	1700	U
51-28-5	2,4-Dinitrophenol	1700	U
132-64-9	Dibenzofuran	830	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number: 49-32

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mioduski
Profile: 25469-591 Site: Hawthorn Code: E8270 Units: ug/kg
Matrix: (soil/water) SOIL
Sample wt/vol: 30.013 (g/ml) G
Level: (low/med) LOW
% Moisture: 0.2 decanted:(Y/N) N
Concentrated Extract Volume: 3600 (uL)
Injection Volume: 1.0 (uL)
GPC Cleanup: (Y/N) N pH:

Lab Sample ID: 1279036
Lab File ID: S4S88041.D
Date Collected: 07/25/00
Date Extracted: 08/01/00
Date Analyzed: 08/04/00
Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
62-75-9	N-Nitrosodimethylamine	1200	U
111-44-4	bis(2-Chloroethyl)ether	1200	U
108-95-2	Phenol	1200	U
95-57-8	2-Chlorophenol	1200	U
541-73-1	1,3-Dichlorobenzene	1200	U
106-46-7	1,4-Dichlorobenzene	1200	U
95-50-1	1,2-Dichlorobenzene	1200	U
100-51-6	Benzyl alcohol	1200	U
39638-32-9	bis(2-chloroisopropyl)ether	1200	U
95-48-7	2-Methylphenol	1200	U
67-72-1	Hexachloroethane	1200	U
621-64-7	N-Nitroso-di-n-propylamine	1200	U
106-44-5	4-Methylphenol	1200	U
98-95-3	Nitrobenzene	1200	U
78-59-1	Isophorone	1200	U
88-75-5	2-Nitrophenol	1200	U
105-67-9	2,4-Dimethylphenol	1200	U
111-91-1	bis(2-Chloroethoxy)methane	1200	U
120-83-2	2,4-Dichlorophenol	1200	U
120-82-1	1,2,4-Trichlorobenzene	1200	U
91-20-3	Naphthalene	1200	U
106-47-8	4-Chloroaniline	1200	U
87-68-3	Hexachlorobutadiene	1200	U
59-50-7	4-Chloro-3-methylphenol	1200	U
91-57-6	2-Methylnaphthalene	1200	U
77-47-4	Hexachlorocyclopentadiene	1200	U
88-06-2	2,4,6-Trichlorophenol	1200	U
95-95-4	2,4,5-Trichlorophenol	1200	U
91-58-7	2-Chloronaphthalene	1200	U
88-74-4	2-Nitroaniline	1200	U
208-96-8	Acenaphthylene	1200	U
131-11-3	Dimethylphthalate	1200	U
606-20-2	2,6-Dinitrotoluene	1200	U
83-32-9	Acenaphthene	1200	U
99-09-2	3-Nitroaniline	2400	U
51-28-5	2,4-Dinitrophenol	2400	U
132-64-9	Dibenzofuran	1200	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number: LF-SB-3

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mioduski

Profile: 25469-591 Site: Hawthorn Code: E8270 Units: ug/kg

Matrix: (soil/water) SOIL

Sample wt/vol: 30.006 (g/ml) G

Level: (low/med) LOW

% Moisture: 0.2 decanted:(Y/N) N

Concentrated Extract Volume: 1000 (uL)

Injection Volume: 1.0 (uL)

GPC Cleanup: (Y/N) N pH:

Lab Sample ID: 1279023

Lab File ID: S4S88032.D

Date Collected: 07/26/00

Date Extracted: 08/02/00

Date Analyzed: 08/03/00

Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
121-14-2	2,4-Dinitrotoluene	330	U
100-02-7	4-Nitrophenol	670	U
86-73-7	Fluorene	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
84-66-2	Diethylphthalate	330	U
100-01-6	4-Nitroaniline	670	U
534-52-1	4,6-Dinitro-2-methylphenol	670	U
86-30-6	n-Nitrosodiphenylamine(1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	670	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
56-55-3	Benzo[a]anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	330	U
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo[b]fluoranthene	330	U
207-08-9	Benzo[k]fluoranthene	330	U
50-32-8	Benzo[a]pyrene	330	U
193-39-5	Indeno[1,2,3-cd]pyrene	330	U
53-70-3	Dibenz[a,h]anthracene	330	U
191-24-2	Benzo[g,h,i]perylene	330	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number: 101-26

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mioduski

Profile: 25469-591 Site: Hawthorn Code: E8270 Units: ug/kg

Matrix: (soil/water) SOIL Lab Sample ID: 1279038

Sample wt/vol: 30.011 (g/ml) G Lab File ID: S4S88012.D

Level: (low/med) LOW Date Collected: 07/25/00

% Moisture: 0.2 decanted:(Y/N) N Date Extracted: 08/01/00

Concentrated Extract Volume: 2500 (uL) Date Analyzed: 08/02/00

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
121-14-2	2,4-Dinitrotoluene	830	U
100-02-7	4-Nitrophenol	1700	U
86-73-7	Fluorene	830	U
7005-72-3	4-Chlorophenyl-phenylether	830	U
84-66-2	Diethylphthalate	830	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	n-Nitrosodiphenylamine(1)	830	U
101-55-3	4-Bromophenyl-phenylether	830	U
118-74-1	Hexachlorobenzene	830	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	830	U
120-12-7	Anthracene	830	U
84-74-2	Di-n-butylphthalate	830	U
206-44-0	Fluoranthene	830	U
129-00-0	Pyrene	830	U
85-68-7	Butylbenzylphthalate	830	U
56-55-3	Benzo[a]anthracene	830	U
218-01-9	Chrysene	830	U
117-81-7	bis(2-Ethylhexyl)phthalate	830	U
117-84-0	Di-n-octylphthalate	830	U
205-99-2	Benzo[b]fluoranthene	830	U
207-08-9	Benzo[k]fluoranthene	830	U
50-32-8	Benzo[a]pyrene	830	U
193-39-5	Indeno[1,2,3-cd]pyrene	830	U
53-70-3	Dibenz[a,h]anthracene	830	U
191-24-2	Benzo[g,h,i]perylene	830	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number: 103-33

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mioduski

Profile: 25469-591 Site: Hawthorn Code: E8270 Units: ug/kg

Matrix: (soil/water) SOIL Lab Sample ID: 1279039

Sample wt/vol: 30.003 (g/ml) G Lab File ID: S4S88011.D

Level: (low/med) LOW Date Collected: 07/25/00

% Moisture: 0.3 decanted:(Y/N) N Date Extracted: 08/01/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/02/00

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
62-75-9	N-Nitrosodimethylamine	330	U
111-44-4	bis(2-Chloroethyl)ether	330	U
108-95-2	Phenol	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
95-50-1	1,2-Dichlorobenzene	330	U
100-51-6	Benzyl alcohol	330	U
39638-32-9	bis(2-chloroisopropyl)ether	330	U
95-48-7	2-Methylphenol	330	U
67-72-1	Hexachloroethane	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
106-44-5	4-Methylphenol	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	330	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	330	U
208-96-8	Acenaphthylene	330	U
131-11-3	Dimethylphthalate	330	U
606-20-2	2,6-Dinitrotoluene	330	U
83-32-9	Acenaphthene	330	U
99-09-2	3-Nitroaniline	670	U
51-28-5	2,4-Dinitrophenol	670	U
132-64-9	Dibenzofuran	330	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number: 103-33

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mioduski

Profile: 25469-591 Site: Hawthorn Code: E8270 Units: ug/kg

Matrix: (soil/water) SOIL Lab Sample ID: 1279039

Sample wt/vol: 30.003 (g/ml) G Lab File ID: S4S88011.D

Level: (low/med) LOW Date Collected: 07/25/00

% Moisture: 0.3 decanted:(Y/N) N Date Extracted: 08/01/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/02/00

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	330	U
100-02-7	4-Nitrophenol	670	U
86-73-7	Fluorene	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
84-66-2	Diethylphthalate	330	U
100-01-6	4-Nitroaniline	670	U
534-52-1	4,6-Dinitro-2-methylphenol	670	U
86-30-6	n-Nitrosodiphenylamine(1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	670	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
56-55-3	Benzo[a]anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	220	JB
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo[b]fluoranthene	330	U
207-08-9	Benzo[k]fluoranthene	330	U
50-32-8	Benzo[a]pyrene	330	U
193-39-5	Indeno[1,2,3-cd]pyrene	330	U
53-70-3	Dibenz[a,h]anthracene	330	U
191-24-2	Benzo[g,h,i]perylene	330	U

QUALITY CONTROL REPORT

Contains:

1. Data Analysis Sheets (Form 1's) for method blanks, spiked blanks, and/or spiked samples.
2. Surrogate Recovery Report(s) (Form 2)
3. Matrix Spike/Matrix Spike Duplicate Recovery Report(s) (Form 3) and Recovery Report(s) for spiked blanks
4. Recovery Report(s) for Laboratory Control spikes
5. Blank Report(s) (Form 4)
6. Tune Check Report(s) (Form 5)
7. Initial Calibration Report(s) (Form 6)
8. Continuing Calibration Report(s) (Form 7)
9. Internal Standard Response and Retention Time Report(s) (Form 8)

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number: 110-99

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mioduski

Profile: 25469-591 Site: Hawthorn Code: E8270 Units: ug/kg

Matrix: (soil/water) SOIL Lab Sample ID: 1279012

Sample wt/vol: 30.005 (g/ml) G Lab File ID: S4S88014.D

Level: (low/med) LOW Date Collected: 07/25/00

% Moisture: 0.2 decanted:(Y/N) N Date Extracted: 08/01/00

Concentrated Extract Volume: 3000 (uL) Date Analyzed: 08/02/00

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
121-14-2	2,4-Dinitrotoluene	1000	U
100-02-7	4-Nitrophenol	2000	U
86-73-7	Fluorene	1000	U
7005-72-3	4-Chlorophenyl-phenylether	1000	U
84-66-2	Diethylphthalate	1000	U
100-01-6	4-Nitroaniline	2000	U
534-52-1	4,6-Dinitro-2-methylphenol	2000	U
86-30-6	n-Nitrosodiphenylamine(1)	1000	U
101-55-3	4-Bromophenyl-phenylether	1000	U
118-74-1	Hexachlorobenzene	1000	U
87-86-5	Pentachlorophenol	2000	U
85-01-8	Phenanthrene	1000	U
120-12-7	Anthracene	1000	U
84-74-2	Di-n-butylphthalate	1000	U
206-44-0	Fluoranthene	1000	U
129-00-0	Pyrene	1000	U
85-68-7	Butylbenzylphthalate	1000	U
56-55-3	Benzo[a]anthracene	1000	U
218-01-9	Chrysene	1000	U
117-81-7	bis(2-Ethylhexyl)phthalate	1000	U
117-84-0	Di-n-octylphthalate	1000	U
205-99-2	Benzo[b]fluoranthene	1000	U
207-08-9	Benzo[k]fluoranthene	1000	U
50-32-8	Benzo[a]pyrene	1000	U
193-39-5	Indeno[1,2,3-cd]pyrene	1000	U
53-70-3	Dibenz[a,h]anthracene	1000	U
191-24-2	Benzo[g,h,i]perylene	1000	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number: **10-S-1**

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mioduski

Profile: 25469-591 Site: Hawthorn Code: E8270 Units: ug/kg

Matrix: (soil/water) SOIL Lab Sample ID: 1279013

Sample wt/vol: 30.004 (g/ml) G Lab File ID: S4S88042.D

Level: (low/med) LOW Date Collected: 07/26/00

% Moisture: 2.9 decanted:(Y/N) N Date Extracted: 08/02/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/04/00

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
62-75-9	N-Nitrosodimethylamine	340	U
111-44-4	bis(2-Chloroethyl)ether	340	U
108-95-2	Phenol	340	U
95-57-8	2-Chlorophenol	340	U
541-73-1	1,3-Dichlorobenzene	340	U
106-46-7	1,4-Dichlorobenzene	340	U
95-50-1	1,2-Dichlorobenzene	340	U
100-51-6	Benzyl alcohol	340	U
39638-32-9	bis(2-chloroisopropyl)ether	340	U
95-48-7	2-Methylphenol	340	U
67-72-1	Hexachloroethane	340	U
621-64-7	N-Nitroso-di-n-propylamine	340	U
106-44-5	4-Methylphenol	340	U
98-95-3	Nitrobenzene	340	U
78-59-1	Isophorone	340	U
88-75-5	2-Nitrophenol	340	U
105-67-9	2,4-Dimethylphenol	340	U
111-91-1	bis(2-Chloroethoxy)methane	340	U
120-83-2	2,4-Dichlorophenol	340	U
120-82-1	1,2,4-Trichlorobenzene	340	U
91-20-3	Naphthalene	340	U
106-47-8	4-Chloroaniline	340	U
87-68-3	Hexachlorobutadiene	340	U
59-50-7	4-Chloro-3-methylphenol	340	U
91-57-6	2-Methylnaphthalene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U
88-06-2	2,4,6-Trichlorophenol	340	U
95-95-4	2,4,5-Trichlorophenol	340	U
91-58-7	2-Chloronaphthalene	340	U
88-74-4	2-Nitroaniline	340	U
208-96-8	Acenaphthylene	340	U
131-11-3	Dimethylphthalate	340	U
606-20-2	2,6-Dinitrotoluene	340	U
83-32-9	Acenaphthene	340	U
99-09-2	3-Nitroaniline	690	U
51-28-5	2,4-Dinitrophenol	690	U
132-64-9	Dibenzofuran	340	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number: 110-99

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mioduski
Profile: 25469-591 Site: Hawthorn Code: E8270 Units: ug/kg
Matrix: (soil/water) SOIL
Sample wt/vol: 30.005 (g/ml) G
Level: (low/med) LOW
% Moisture: 0.2 decanted:(Y/N) N
Concentrated Extract Volume: 3000 (uL)
Injection Volume: 1.0 (uL)
GPC Cleanup: (Y/N) N pH:

Lab Sample ID: 1279012
Lab File ID: S4S88014.D
Date Collected: 07/25/00
Date Extracted: 08/01/00
Date Analyzed: 08/02/00
Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
62-75-9	N-Nitrosodimethylamine	1000	U
111-44-4	bis(2-Chloroethyl)ether	1000	U
108-95-2	Phenol	1000	U
95-57-8	2-Chlorophenol	1000	U
541-73-1	1,3-Dichlorobenzene	1000	U
106-46-7	1,4-Dichlorobenzene	1000	U
95-50-1	1,2-Dichlorobenzene	1000	U
100-51-6	Benzyl alcohol	1000	U
39638-32-9	bis(2-chloroisopropyl)ether	1000	U
95-48-7	2-Methylphenol	1000	U
67-72-1	Hexachloroethane	1000	U
621-64-7	N-Nitroso-di-n-propylamine	1000	U
106-44-5	4-Methylphenol	1000	U
98-95-3	Nitrobenzene	1000	U
78-59-1	Isophorone	1000	U
88-75-5	2-Nitrophenol	1000	U
105-67-9	2,4-Dimethylphenol	1000	U
111-91-1	bis(2-Chloroethoxy)methane	1000	U
120-83-2	2,4-Dichlorophenol	1000	U
120-82-1	1,2,4-Trichlorobenzene	1000	U
91-20-3	Naphthalene	1000	U
106-47-8	4-Chloroaniline	1000	U
87-68-3	Hexachlorobutadiene	1000	U
59-50-7	4-Chloro-3-methylphenol	1000	U
91-57-6	2-Methylnaphthalene	1000	U
77-47-4	Hexachlorocyclopentadiene	1000	U
88-06-2	2,4,6-Trichlorophenol	1000	U
95-95-4	2,4,5-Trichlorophenol	1000	U
91-58-7	2-Chloronaphthalene	1000	U
88-74-4	2-Nitroaniline	1000	U
208-96-8	Acenaphthylene	1000	U
131-11-3	Dimethylphthalate	1000	U
606-20-2	2,6-Dinitrotoluene	1000	U
83-32-9	Acenaphthene	1000	U
99-09-2	3-Nitroaniline	2000	U
51-28-5	2,4-Dinitrophenol	2000	U
132-64-9	Dibenzofuran	1000	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number: 110-100

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mioduski

Profile: 25469-591 Site: Hawthorn Code: E8270 Units: ug/kg

Matrix: (soil/water) SOIL

Lab Sample ID: 1279011

Sample wt/vol: 30.013 (g/ml) G

Lab File ID: S4S88010.D

Level: (low/med) LOW

Date Collected: 07/25/00

% Moisture: 0.2 decanted:(Y/N) N

Date Extracted: 08/01/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/02/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
121-14-2	2,4-Dinitrotoluene	330	U
100-02-7	4-Nitrophenol	670	U
86-73-7	Fluorene	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
84-66-2	Diethylphthalate	330	U
100-01-6	4-Nitroaniline	670	U
534-52-1	4,6-Dinitro-2-methylphenol	670	U
86-30-6	n-Nitrosodiphenylamine(1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	670	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
56-55-3	Benzo[a]anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	330	U
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo[b]fluoranthene	330	U
207-08-9	Benzo[k]fluoranthene	330	U
50-32-8	Benzo[a]pyrene	330	U
193-39-5	Indeno[1,2,3-cd]pyrene	330	U
53-70-3	Dibenz[a,h]anthracene	330	U
191-24-2	Benzo[g,h,i]perylene	330	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number: 110-100

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mioduski
Profile: 25469-591 Site: Hawthorn Code: E8270 Units: ug/kg
Matrix: (soil/water) SOIL
Sample wt/vol: 30.013 (g/ml) G
Level: (low/med) LOW
% Moisture: 0.2 decanted:(Y/N) N
Concentrated Extract Volume: 1000 (uL)
Injection Volume: 1.0 (uL)
GPC Cleanup: (Y/N) N pH:

Lab Sample ID: 1279011
Lab File ID: S4S88010.D
Date Collected: 07/25/00
Date Extracted: 08/01/00
Date Analyzed: 08/02/00
Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
62-75-9	N-Nitrosodimethylamine	330	U
111-44-4	bis(2-Chloroethyl)ether	330	U
108-95-2	Phenol	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
95-50-1	1,2-Dichlorobenzene	330	U
100-51-6	Benzyl alcohol	330	U
39638-32-9	bis(2-chloroisopropyl)ether	330	U
95-48-7	2-Methylphenol	330	U
67-72-1	Hexachloroethane	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
106-44-5	4-Methylphenol	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	330	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	330	U
208-96-8	Acenaphthylene	330	U
131-11-3	Dimethylphthalate	330	U
606-20-2	2,6-Dinitrotoluene	330	U
83-32-9	Acenaphthene	330	U
99-09-2	3-Nitroaniline	670	U
51-28-5	2,4-Dinitrophenol	670	U
132-64-9	Dibenzofuran	330	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number: 108-26

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mioduski

Profile: 25469-591 Site: Hawthorn Code: E8270 Units: ug/kg

Matrix: (soil/water) SOIL

Sample wt/vol: 30.011 (g/ml) G

Level: (low/med) LOW

% Moisture: 0.1 decanted:(Y/N) N

Concentrated Extract Volume: 4600 (uL)

Injection Volume: 1.0 (uL)

GPC Cleanup: (Y/N) N pH:

Lab Sample ID: 1279010

Lab File ID: S4S88040.D

Date Collected: 07/25/00

Date Extracted: 08/01/00

Date Analyzed: 08/04/00

Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
121-14-2	2,4-Dinitrotoluene	1500	U
100-02-7	4-Nitrophenol	3100	U
86-73-7	Fluorene	1500	U
7005-72-3	4-Chlorophenyl-phenylether	1500	U
84-66-2	Diethylphthalate	1500	U
100-01-6	4-Nitroaniline	3100	U
534-52-1	4,6-Dinitro-2-methylphenol	3100	U
86-30-6	n-Nitrosodiphenylamine(1)	1500	U
101-55-3	4-Bromophenyl-phenylether	1500	U
118-74-1	Hexachlorobenzene	1500	U
87-86-5	Pentachlorophenol	3100	U
85-01-8	Phenanthrene	1500	U
120-12-7	Anthracene	1500	U
84-74-2	Di-n-butylphthalate	1500	U
206-44-0	Fluoranthene	1500	U
129-00-0	Pyrene	1500	U
85-68-7	Butylbenzylphthalate	1500	U
56-55-3	Benzo[a]anthracene	1500	U
218-01-9	Chrysene	1500	U
117-81-7	bis(2-Ethylhexyl)phthalate	1500	U
117-84-0	Di-n-octylphthalate	1500	U
205-99-2	Benzo[b]fluoranthene	1500	U
207-08-9	Benzo[k]fluoranthene	1500	U
50-32-8	Benzo[a]pyrene	1500	U
193-39-5	Indeno[1,2,3-cd]pyrene	1500	U
53-70-3	Dibenz[a,h]anthracene	1500	U
191-24-2	Benzo[g,h,i]perylene	1500	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number: 108-26

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mioduski
Profile: 25469-591 Site: Hawthorn Code: E8270 Units: ug/kg
Matrix: (soil/water) SOIL
Sample wt/vol: 30.011 (g/ml) G
Level: (low/med) LOW
% Moisture: 0.1 decanted:(Y/N) N
Concentrated Extract Volume: 4600 (uL)
Injection Volume: 1.0 (uL)
GPC Cleanup: (Y/N) N pH:

Lab Sample ID: 1279010
Lab File ID: S4S88040.D
Date Collected: 07/25/00
Date Extracted: 08/01/00
Date Analyzed: 08/04/00
Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
62-75-9	N-Nitrosodimethylamine	1500	U
111-44-4	bis(2-Chloroethyl)ether	1500	U
108-95-2	Phenol	1500	U
95-57-8	2-Chlorophenol	1500	U
541-73-1	1,3-Dichlorobenzene	1500	U
106-46-7	1,4-Dichlorobenzene	1500	U
95-50-1	1,2-Dichlorobenzene	1500	U
100-51-6	Benzyl alcohol	1500	U
39638-32-9	bis(2-chloroisopropyl)ether	1500	U
95-48-7	2-Methylphenol	1500	U
67-72-1	Hexachloroethane	1500	U
621-64-7	N-Nitroso-di-n-propylamine	1500	U
106-44-5	4-Methylphenol	1500	U
98-95-3	Nitrobenzene	1500	U
78-59-1	Isophorone	1500	U
88-75-5	2-Nitrophenol	1500	U
105-67-9	2,4-Dimethylphenol	1500	U
111-91-1	bis(2-Chloroethoxy)methane	1500	U
120-83-2	2,4-Dichlorophenol	1500	U
120-82-1	1,2,4-Trichlorobenzene	1500	U
91-20-3	Naphthalene	1500	U
106-47-8	4-Chloroaniline	1500	U
87-68-3	Hexachlorobutadiene	1500	U
59-50-7	4-Chloro-3-methylphenol	1500	U
91-57-6	2-Methylnaphthalene	1500	U
77-47-4	Hexachlorocyclopentadiene	1500	U
88-06-2	2,4,6-Trichlorophenol	1500	U
95-95-4	2,4,5-Trichlorophenol	1500	U
91-58-7	2-Chloronaphthalene	1500	U
88-74-4	2-Nitroaniline	1500	U
208-96-8	Acenaphthylene	1500	U
131-11-3	Dimethylphthalate	1500	U
606-20-2	2,6-Dinitrotoluene	1500	U
83-32-9	Acenaphthene	1500	U
99-09-2	3-Nitroaniline	3100	U
51-28-5	2,4-Dinitrophenol	3100	U
132-64-9	Dibenzofuran	1500	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number: 108-8E

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mioduski

Profile: 25469-591 Site: Hawthorn Code: E8270 Units: ug/kg

Matrix: (soil/water) SOIL Lab Sample ID: 1279009

Sample wt/vol: 30.004 (g/ml) G Lab File ID: S4S88013.D

Level: (low/med) LOW Date Collected: 07/25/00

% Moisture: 0.1 decanted:(Y/N) N Date Extracted: 08/01/00

Concentrated Extract Volume: 1300 (uL) Date Analyzed: 08/02/00

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
121-14-2	2,4-Dinitrotoluene	430	U
100-02-7	4-Nitrophenol	870	U
86-73-7	Fluorene	430	U
7005-72-3	4-Chlorophenyl-phenylether	430	U
84-66-2	Diethylphthalate	430	U
100-01-6	4-Nitroaniline	870	U
534-52-1	4,6-Dinitro-2-methylphenol	870	U
86-30-6	n-Nitrosodiphenylamine(1)	430	U
101-55-3	4-Bromophenyl-phenylether	430	U
118-74-1	Hexachlorobenzene	430	U
87-86-5	Pentachlorophenol	870	U
85-01-8	Phenanthrene	430	U
120-12-7	Anthracene	430	U
84-74-2	Di-n-butylphthalate	430	U
206-44-0	Fluoranthene	430	U
129-00-0	Pyrene	430	U
85-68-7	Butylbenzylphthalate	430	U
56-55-3	Benzo[a]anthracene	430	U
218-01-9	Chrysene	430	U
117-81-7	bis(2-Ethylhexyl)phthalate	2100	B
117-84-0	Di-n-octylphthalate	430	U
205-99-2	Benzo[b]fluoranthene	430	U
207-08-9	Benzo[k]fluoranthene	430	U
50-32-8	Benzo[a]pyrene	430	U
193-39-5	Indeno[1,2,3-cd]pyrene	430	U
53-70-3	Dibenz[a,h]anthracene	430	U
191-24-2	Benzo[g,h,i]perylene	430	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number: 108-8E

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mioduski
Profile: 25469-591 Site: Hawthorn Code: E8270 Units: ug/kg
Matrix: (soil/water) SOIL Lab Sample ID: 1279009
Sample wt/vol: 30.004 (g/ml) G Lab File ID: S4S88013.D
Level: (low/med) LOW Date Collected: 07/25/00
% Moisture: 0.1 decanted:(Y/N) N Date Extracted: 08/01/00
Concentrated Extract Volume: 1300 (uL) Date Analyzed: 08/02/00
Injection Volume: 1.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
62-75-9	N-Nitrosodimethylamine	430	U
111-44-4	bis(2-Chloroethyl)ether	430	U
108-95-2	Phenol	430	U
95-57-8	2-Chlorophenol	430	U
541-73-1	1,3-Dichlorobenzene	430	U
106-46-7	1,4-Dichlorobenzene	430	U
95-50-1	1,2-Dichlorobenzene	430	U
100-51-6	Benzyl alcohol	430	U
39638-32-9	bis(2-chloroisopropyl)ether	430	U
95-48-7	2-Methylphenol	430	U
67-72-1	Hexachloroethane	430	U
621-64-7	N-Nitroso-di-n-propylamine	430	U
106-44-5	4-Methylphenol	430	U
98-95-3	Nitrobenzene	430	U
78-59-1	Isophorone	430	U
88-75-5	2-Nitrophenol	430	U
105-67-9	2,4-Dimethylphenol	430	U
111-91-1	bis(2-Chloroethoxy)methane	430	U
120-83-2	2,4-Dichlorophenol	430	U
120-82-1	1,2,4-Trichlorobenzene	430	U
91-20-3	Naphthalene	430	U
106-47-8	4-Chloroaniline	430	U
87-68-3	Hexachlorobutadiene	430	U
59-50-7	4-Chloro-3-methylphenol	430	U
91-57-6	2-Methylnaphthalene	430	U
77-47-4	Hexachlorocyclopentadiene	430	U
88-06-2	2,4,6-Trichlorophenol	430	U
95-95-4	2,4,5-Trichlorophenol	430	U
91-58-7	2-Chloronaphthalene	430	U
88-74-4	2-Nitroaniline	430	U
208-96-8	Acenaphthylene	430	U
131-11-3	Dimethylphthalate	430	U
606-20-2	2,6-Dinitrotoluene	430	U
83-32-9	Acenaphthene	430	U
99-09-2	3-Nitroaniline	430	U
51-28-5	2,4-Dinitrophenol	870	U
132-64-9	Dibenzofuran	870	U
		430	U

FORM I SV-1 3/90

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number: 104-10

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mioduski

Profile: 25469-591 Site: Hawthorn Code: E8270 Units: ug/kg

Matrix: (soil/water) SOIL Lab Sample ID: 1279008

Sample wt/vol: 30.021 (g/ml) G Lab File ID: S4S88049.D

Level: (low/med) LOW Date Collected: 07/25/00

% Moisture: 0.2 decanted:(Y/N) N Date Extracted: 08/02/00

Concentrated Extract Volume: 5500 (uL) Date Analyzed: 08/05/00

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
121-14-2	2,4-Dinitrotoluene	1800	U
100-02-7	4-Nitrophenol	3700	U
86-73-7	Fluorene	1800	U
7005-72-3	4-Chlorophenyl-phenylether	1800	U
84-66-2	Diethylphthalate	1800	U
100-01-6	4-Nitroaniline	3700	U
534-52-1	4,6-Dinitro-2-methylphenol	3700	U
86-30-6	n-Nitrosodiphenylamine(1)	1800	U
101-55-3	4-Bromophenyl-phenylether	1800	U
118-74-1	Hexachlorobenzene	1800	U
87-86-5	Pentachlorophenol	3700	U
85-01-8	Phenanthrene	1800	U
120-12-7	Anthracene	1800	U
84-74-2	Di-n-butylphthalate	1800	U
206-44-0	Fluoranthene	1800	U
129-00-0	Pyrene	1800	U
85-68-7	Butylbenzylphthalate	1800	U
56-55-3	Benzo[a]anthracene	1800	U
218-01-9	Chrysene	1800	U
117-81-7	bis(2-Ethylhexyl)phthalate	1800	U
117-84-0	Di-n-octylphthalate	1800	U
205-99-2	Benzo[b]fluoranthene	1800	U
207-08-9	Benzo[k]fluoranthene	1800	U
50-32-8	Benzo[a]pyrene	1800	U
193-39-5	Indeno[1,2,3-cd]pyrene	1800	U
53-70-3	Dibenz[a,h]anthracene	1800	U
191-24-2	Benzo[g,h,i]perylene	1800	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number: 104-10

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mioduski

Profile: 25469-591 Site: Hawthorn Code: E8270 Units: ug/kg

Matrix: (soil/water) SOIL Lab Sample ID: 1279008

Sample wt/vol: 30.021 (g/ml) G Lab File ID: S4S88049.D

Level: (low/med) LOW Date Collected: 07/25/00

% Moisture: 0.2 decanted:(Y/N) N Date Extracted: 08/02/00

Concentrated Extract Volume: 5500 (uL) Date Analyzed: 08/05/00

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
62-75-9	N-Nitrosodimethylamine	1800	U
111-44-4	bis(2-Chloroethyl)ether	1800	U
108-95-2	Phenol	1800	U
95-57-8	2-Chlorophenol	1800	U
541-73-1	1,3-Dichlorobenzene	1800	U
106-46-7	1,4-Dichlorobenzene	1800	U
95-50-1	1,2-Dichlorobenzene	1800	U
100-51-6	Benzyl alcohol	1800	U
39638-32-9	bis(2-chloroisopropyl)ether	1800	U
95-48-7	2-Methylphenol	1800	U
67-72-1	Hexachloroethane	1800	U
621-64-7	N-Nitroso-di-n-propylamine	1800	U
106-44-5	4-Methylphenol	1800	U
98-95-3	Nitrobenzene	1800	U
78-59-1	Isophorone	1800	U
88-75-5	2-Nitrophenol	1800	U
105-67-9	2,4-Dimethylphenol	1800	U
111-91-1	bis(2-Chloroethoxy)methane	1800	U
120-83-2	2,4-Dichlorophenol	1800	U
120-82-1	1,2,4-Trichlorobenzene	1800	U
91-20-3	Naphthalene	1800	U
106-47-8	4-Chloroaniline	1800	U
87-68-3	Hexachlorobutadiene	1800	U
59-50-7	4-Chloro-3-methylphenol	1800	U
91-57-6	2-Methylnaphthalene	1800	U
77-47-4	Hexachlorocyclopentadiene	1800	U
88-06-2	2,4,6-Trichlorophenol	1800	U
95-95-4	2,4,5-Trichlorophenol	1800	U
91-58-7	2-Chloronaphthalene	1800	U
88-74-4	2-Nitroaniline	1800	U
208-96-8	Acenaphthylene	1800	U
131-11-3	Dimethylphthalate	1800	U
606-20-2	2,6-Dinitrotoluene	1800	U
83-32-9	Acenaphthene	1800	U
99-09-2	3-Nitroaniline	1800	U
51-28-5	2,4-Dinitrophenol	3700	U
132-64-9	Dibenzofuran	3700	U
		1800	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number: 104-11

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mioduski

Profile: 25469-591 Site: Hawthorn Code: E8270 Units: ug/kg

Matrix: (soil/water) SOIL

Lab Sample ID: 1279007

Sample wt/vol: 30.01 (g/ml) G

Lab File ID: S4S88048.D

Level: (low/med) LOW

Date Collected: 07/25/00

% Moisture: 0.2 decanted:(Y/N) N

Date Extracted: 08/02/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/04/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
121-14-2	2,4-Dinitrotoluene	330	U
100-02-7	4-Nitrophenol	670	U
86-73-7	Fluorene	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
84-66-2	Diethylphthalate	330	U
100-01-6	4-Nitroaniline	670	U
534-52-1	4,6-Dinitro-2-methylphenol	670	U
86-30-6	n-Nitrosodiphenylamine(1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	670	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
56-55-3	Benzo[a]anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	260	J
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo[b]fluoranthene	330	U
207-08-9	Benzo[k]fluoranthene	330	U
50-32-8	Benzo[a]pyrene	330	U
193-39-5	Indeno[1,2,3-cd]pyrene	330	U
53-70-3	Dibenz[a,h]anthracene	330	U
191-24-2	Benzo[g,h,i]perylene	330	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number: 104-11

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mioduski
Profile: 25469-591 Site: Hawthorn Code: E8270 Units: ug/kg
Matrix: (soil/water) SOIL Lab Sample ID: 1279007
Sample wt/vol: 30.01 (g/ml) G Lab File ID: S4S88048.D
Level: (low/med) LOW Date Collected: 07/25/00
% Moisture: 0.2 decanted:(Y/N) N Date Extracted: 08/02/00
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/04/00
Injection Volume: 1.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
62-75-9	N-Nitrosodimethylamine	330	U
111-44-4	bis(2-Chloroethyl)ether	330	U
108-95-2	Phenol	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
95-50-1	1,2-Dichlorobenzene	330	U
100-51-6	Benzyl alcohol	330	U
39638-32-9	bis(2-chloroisopropyl)ether	330	U
95-48-7	2-Methylphenol	330	U
67-72-1	Hexachloroethane	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
106-44-5	4-Methylphenol	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	330	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	330	U
208-96-8	Acenaphthylene	330	U
131-11-3	Dimethylphthalate	330	U
606-20-2	2,6-Dinitrotoluene	330	U
83-32-9	Acenaphthene	330	U
99-09-2	3-Nitroaniline	670	U
51-28-5	2,4-Dinitrophenol	670	U
132-64-9	Dibenzofuran	330	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number: 104-12

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mioduski

Profile: 25469-591 Site: Hawthorn Code: E8270 Units: ug/kg

Matrix: (soil/water) SOIL

Sample wt/vol: 30.009 (g/ml) G

Level: (low/med) LOW

% Moisture: 0.1 decanted:(Y/N) N

Concentrated Extract Volume: 8300 (uL)

Injection Volume: 1.0 (uL)

GPC Cleanup: (Y/N) N pH: _____

Lab Sample ID: 1279006

Lab File ID: S4S88078.D

Date Collected: 07/25/00

Date Extracted: 08/02/00

Date Analyzed: 08/10/00

Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
121-14-2	2,4-Dinitrotoluene	2800	U
100-02-7	4-Nitrophenol	5500	U
86-73-7	Fluorene	2800	U
7005-72-3	4-Chlorophenyl-phenylether	2800	U
84-66-2	Diethylphthalate	2800	U
100-01-6	4-Nitroaniline	5500	U
534-52-1	4,6-Dinitro-2-methylphenol	5500	U
86-30-6	n-Nitrosodiphenylamine(1)	2800	U
101-55-3	4-Bromophenyl-phenylether	2800	U
118-74-1	Hexachlorobenzene	2800	U
87-86-5	Pentachlorophenol	5500	U
85-01-8	Phenanthrene	2800	U
120-12-7	Anthracene	2800	U
84-74-2	Di-n-butylphthalate	2800	U
206-44-0	Fluoranthene	2800	U
129-00-0	Pyrene	2800	U
85-68-7	Butylbenzylphthalate	2800	U
56-55-3	Benzo[a]anthracene	2800	U
218-01-9	Chrysene	2800	U
117-81-7	bis(2-Ethylhexyl)phthalate	2800	U
117-84-0	Di-n-octylphthalate	2800	U
205-99-2	Benzo[b]fluoranthene	2800	U
207-08-9	Benzo[k]fluoranthene	2800	U
50-32-8	Benzo[a]pyrene	2800	U
193-39-5	Indeno[1,2,3-cd]pyrene	2800	U
53-70-3	Dibenz[a,h]anthracene	2800	U
191-24-2	Benzo[g,h,i]perylene	2800	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number: 104-12

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mioduski
Profile: 25469-591 Site: Hawthorn Code: E8270 Units: ug/kg
Matrix: (soil/water) SOIL
Lab Sample ID: 1279006
Sample wt/vol: 30.009 (g/ml) G
Lab File ID: S4S88078.D
Level: (low/med) LOW
Date Collected: 07/25/00
% Moisture: 0.1 decanted:(Y/N) N
Date Extracted: 08/02/00
Concentrated Extract Volume: 8300 (uL)
Date Analyzed: 08/10/00
Injection Volume: 1.0 (uL)
Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
62-75-9	N-Nitrosodimethylamine	2800	U
111-44-4	bis(2-Chloroethyl)ether	2800	U
108-95-2	Phenol	2800	U
95-57-8	2-Chlorophenol	2800	U
541-73-1	1,3-Dichlorobenzene	2800	U
106-46-7	1,4-Dichlorobenzene	2800	U
95-50-1	1,2-Dichlorobenzene	2800	U
100-51-6	Benzyl alcohol	2800	U
39638-32-9	bis(2-chloroisopropyl)ether	2800	U
95-48-7	2-Methylphenol	2800	U
67-72-1	Hexachloroethane	2800	U
621-64-7	N-Nitroso-di-n-propylamine	2800	U
106-44-5	4-Methylphenol	2800	U
98-95-3	Nitrobenzene	2800	U
78-59-1	Isophorone	2800	U
88-75-5	2-Nitrophenol	2800	U
105-67-9	2,4-Dimethylphenol	2800	U
111-91-1	bis(2-Chloroethoxy)methane	2800	U
120-83-2	2,4-Dichlorophenol	2800	U
120-82-1	1,2,4-Trichlorobenzene	2800	U
91-20-3	Naphthalene	2800	U
106-47-8	4-Chloroaniline	2800	U
87-68-3	Hexachlorobutadiene	2800	U
59-50-7	4-Chloro-3-methylphenol	2800	U
91-57-6	2-Methylnaphthalene	2800	U
77-47-4	Hexachlorocyclopentadiene	2800	U
88-06-2	2,4,6-Trichlorophenol	2800	U
95-95-4	2,4,5-Trichlorophenol	2800	U
91-58-7	2-Chloronaphthalene	2800	U
88-74-4	2-Nitroaniline	2800	U
208-96-8	Acenaphthylene	2800	U
131-11-3	Dimethylphthalate	2800	U
606-20-2	2,6-Dinitrotoluene	2800	U
83-32-9	Acenaphthene	2800	U
99-09-2	3-Nitroaniline	5500	U
51-28-5	2,4-Dinitrophenol	5500	U
132-64-9	Dibenzofuran	2800	U

FORM I SV-1 3/90

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number: 104-13

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mioduski

Profile: 25469-591 Site: Hawthorn Code: E8270 Units: ug/kg

Matrix: (soil/water) SOIL Lab Sample ID: 1279005

Sample wt/vol: 30.005 (g/ml) G Lab File ID: S4S88077.D

Level: (low/med) LOW Date Collected: 07/26/00

% Moisture: 0.1 decanted:(Y/N) N Date Extracted: 08/08/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/10/00

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
121-14-2	2,4-Dinitrotoluene	330	U
100-02-7	4-Nitrophenol	670	U
86-73-7	Fluorene	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
84-66-2	Diethylphthalate	330	U
100-01-6	4-Nitroaniline	670	U
534-52-1	4,6-Dinitro-2-methylphenol	670	U
86-30-6	n-Nitrosodiphenylamine(1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	670	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
56-55-3	Benzo[a]anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	910	
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo[b]fluoranthene	330	U
207-08-9	Benzo[k]fluoranthene	330	U
50-32-8	Benzo[a]pyrene	330	U
193-39-5	Indeno[1,2,3-cd]pyrene	330	U
53-70-3	Dibenz[a,h]anthracene	330	U
191-24-2	Benzo[g,h,i]perylene	330	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number: 104-13

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mioduski

Profile: 25469-591 Site: Hawthorn Code: E8270 Units: ug/kg

Matrix: (soil/water) SOIL

Lab Sample ID: 1279005

Sample wt/vol: 30.005 (g/ml) G

Lab File ID: S4S88077.D

Level: (low/med) LOW

Date Collected: 07/26/00

% Moisture: 0.1 decanted:(Y/N) N

Date Extracted: 08/08/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/10/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
62-75-9	N-Nitrosodimethylamine	330	U
111-44-4	bis(2-Chloroethyl)ether	330	U
108-95-2	Phenol	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
95-50-1	1,2-Dichlorobenzene	330	U
100-51-6	Benzyl alcohol	330	U
39638-32-9	bis(2-chloroisopropyl)ether	330	U
95-48-7	2-Methylphenol	330	U
67-72-1	Hexachloroethane	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
106-44-5	4-Methylphenol	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	330	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	330	U
208-96-8	Acenaphthylene	330	U
131-11-3	Dimethylphthalate	330	U
606-20-2	2,6-Dinitrotoluene	330	U
83-32-9	Acenaphthene	330	U
99-09-2	3-Nitroaniline	670	U
51-28-5	2,4-Dinitrophenol	670	U
132-64-9	Dibenzofuran	330	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number: 103-22

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mioduski

Profile: 25469-591 Site: Hawthorn Code: E8270 Units: ug/kg

Matrix: (soil/water) SOIL

Sample wt/vol: 30.012 (g/ml) G

Level: (low/med) LOW

% Moisture: 0.3 decanted:(Y/N) N

Concentrated Extract Volume: 5600 (uL)

Injection Volume: 1.0 (uL)

GPC Cleanup: (Y/N) N pH:

Lab Sample ID: 1279004

Lab File ID: S4S88045.D

Date Collected: 07/25/00

Date Extracted: 08/01/00

Date Analyzed: 08/04/00

Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
121-14-2	2,4-Dinitrotoluene	1900	U
100-02-7	4-Nitrophenol	3700	U
86-73-7	Fluorene	1900	U
7005-72-3	4-Chlorophenyl-phenylether	1900	U
84-66-2	Diethylphthalate	1900	U
100-01-6	4-Nitroaniline	3700	U
534-52-1	4,6-Dinitro-2-methylphenol	3700	U
86-30-6	n-Nitrosodiphenylamine(1)	1900	U
101-55-3	4-Bromophenyl-phenylether	1900	U
118-74-1	Hexachlorobenzene	1900	U
87-86-5	Pentachlorophenol	3700	U
85-01-8	Phenanthrene	1900	U
120-12-7	Anthracene	1900	U
84-74-2	Di-n-butylphthalate	4200	
206-44-0	Fluoranthene	1900	U
129-00-0	Pyrene	1900	U
85-68-7	Butylbenzylphthalate	1100	J
56-55-3	Benzo[a]anthracene	1900	U
218-01-9	Chrysene	1900	U
117-81-7	bis(2-Ethylhexyl)phthalate	4400	B
117-84-0	Di-n-octylphthalate	1900	U
205-99-2	Benzo[b]fluoranthene	1900	U
207-08-9	Benzo[k]fluoranthene	1900	U
50-32-8	Benzo[a]pyrene	1900	U
193-39-5	Indeno[1,2,3-cd]pyrene	1900	U
53-70-3	Dibenz[a,h]anthracene	1900	U
191-24-2	Benzo[g,h,i]perylene	1900	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number: 103-22

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mioduski
Profile: 25469-591 Site: Hawthorn Code: E8270 Units: ug/kg
Matrix: (soil/water) SOIL
Sample wt/vol: 30.012 (g/ml) G
Level: (low/med) LOW
% Moisture: 0.3 decanted:(Y/N) N
Concentrated Extract Volume: 5600 (uL)
Injection Volume: 1.0 (uL)
GPC Cleanup: (Y/N) N pH:

Lab Sample ID: 1279004
Lab File ID: S4S88045.D
Date Collected: 07/25/00
Date Extracted: 08/01/00
Date Analyzed: 08/04/00
Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
62-75-9	N-Nitrosodimethylamine	1900	U
111-44-4	bis(2-Chloroethyl)ether	1900	U
108-95-2	Phenol	1900	U
95-57-8	2-Chlorophenol	1900	U
541-73-1	1,3-Dichlorobenzene	1900	U
106-46-7	1,4-Dichlorobenzene	1900	U
95-50-1	1,2-Dichlorobenzene	1900	U
100-51-6	Benzyl alcohol	1900	U
39638-32-9	bis(2-chloroisopropyl)ether	1900	U
95-48-7	2-Methylphenol	1900	U
67-72-1	Hexachloroethane	1900	U
621-64-7	N-Nitroso-di-n-propylamine	1900	U
106-44-5	4-Methylphenol	1900	U
98-95-3	Nitrobenzene	1900	U
78-59-1	Isophorone	1900	U
88-75-5	2-Nitrophenol	1900	U
105-67-9	2,4-Dimethylphenol	1900	U
111-91-1	bis(2-Chloroethoxy)methane	1900	U
120-83-2	2,4-Dichlorophenol	1900	U
120-82-1	1,2,4-Trichlorobenzene	1900	U
91-20-3	Naphthalene	1900	U
106-47-8	4-Chloroaniline	1900	U
87-68-3	Hexachlorobutadiene	1900	U
59-50-7	4-Chloro-3-methylphenol	1900	U
91-57-6	2-Methylnaphthalene	1900	U
77-47-4	Hexachlorocyclopentadiene	1900	U
88-06-2	2,4,6-Trichlorophenol	1900	U
95-95-4	2,4,5-Trichlorophenol	1900	U
91-58-7	2-Chloronaphthalene	1900	U
88-74-4	2-Nitroaniline	1900	U
208-96-8	Acenaphthylene	1900	U
131-11-3	Dimethylphthalate	1900	U
606-20-2	2,6-Dinitrotoluene	1900	U
83-32-9	Acenaphthene	1900	U
99-09-2	3-Nitroaniline	3700	U
51-28-5	2,4-Dinitrophenol	3700	U
132-64-9	Dibenzofuran	1900	U

FORM I SV-1 3/90

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number: 103-23

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mioduski

Profile: 25469-591 Site: Hawthorn Code: E8270 Units: ug/kg

Matrix: (soil/water) SOIL

Lab Sample ID: 1279003

Sample wt/vol: 30.002 (g/ml) G

Lab File ID: S4S88047.D

Level: (low/med) LOW

Date Collected: 07/25/00

% Moisture: 0.2 decanted:(Y/N) N

Date Extracted: 08/01/00

Concentrated Extract Volume: 4500 (uL)

Date Analyzed: 08/04/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
121-14-2	2,4-Dinitrotoluene	1500	U
100-02-7	4-Nitrophenol	3000	U
86-73-7	Fluorene	1500	U
7005-72-3	4-Chlorophenyl-phenylether	1500	U
84-66-2	Diethylphthalate	1500	U
100-01-6	4-Nitroaniline	3000	U
534-52-1	4,6-Dinitro-2-methylphenol	3000	U
86-30-6	n-Nitrosodiphenylamine(1)	1500	U
101-55-3	4-Bromophenyl-phenylether	1500	U
118-74-1	Hexachlorobenzene	1500	U
87-86-5	Pentachlorophenol	3000	U
85-01-8	Phenanthrene	1500	U
120-12-7	Anthracene	1500	U
84-74-2	Di-n-butylphthalate	1500	U
206-44-0	Fluoranthene	1500	U
129-00-0	Pyrene	1500	U
85-68-7	Butylbenzylphthalate	1500	U
56-55-3	Benzo[a]anthracene	1500	U
218-01-9	Chrysene	1500	U
117-81-7	bis(2-Ethylhexyl)phthalate	800	JB
117-84-0	Di-n-octylphthalate	1500	U
205-99-2	Benzo[b]fluoranthene	1500	U
207-08-9	Benzo[k]fluoranthene	1500	U
50-32-8	Benzo[a]pyrene	1500	U
193-39-5	Indeno[1,2,3-cd]pyrene	1500	U
53-70-3	Dibenz[a,h]anthracene	1500	U
191-24-2	Benzo[g,h,i]perylene	1500	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number: 103-23

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mioduski
Profile: 25469-591 Site: Hawthorn Code: E8270 Units: ug/kg
Matrix: (soil/water) SOIL
Sample wt/vol: 30.002 (g/ml) G
Level: (low/med) LOW
% Moisture: 0.2 decanted:(Y/N) N
Concentrated Extract Volume: 4500 (uL)
Injection Volume: 1.0 (uL)
GPC Cleanup: (Y/N) N pH:

Lab Sample ID: 1279003
Lab File ID: S4S88047.D
Date Collected: 07/25/00
Date Extracted: 08/01/00
Date Analyzed: 08/04/00
Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
62-75-9	N-Nitrosodimethylamine	1500	U
111-44-4	bis(2-Chloroethyl)ether	1500	U
108-95-2	Phenol	1500	U
95-57-8	2-Chlorophenol	1500	U
541-73-1	1,3-Dichlorobenzene	1500	U
106-46-7	1,4-Dichlorobenzene	1500	U
95-50-1	1,2-Dichlorobenzene	1500	U
100-51-6	Benzyl alcohol	1500	U
39638-32-9	bis(2-chloroisopropyl)ether	1500	U
95-48-7	2-Methylphenol	1500	U
67-72-1	Hexachloroethane	1500	U
621-64-7	N-Nitroso-di-n-propylamine	1500	U
106-44-5	4-Methylphenol	1500	U
98-95-3	Nitrobenzene	1500	U
78-59-1	Isophorone	1500	U
88-75-5	2-Nitrophenol	1500	U
105-67-9	2,4-Dimethylphenol	1500	U
111-91-1	bis(2-Chloroethoxy)methane	1500	U
120-83-2	2,4-Dichlorophenol	1500	U
120-82-1	1,2,4-Trichlorobenzene	1500	U
91-20-3	Naphthalene	1500	U
106-47-8	4-Chloroaniline	1500	U
87-68-3	Hexachlorobutadiene	1500	U
59-50-7	4-Chloro-3-methylphenol	1500	U
91-57-6	2-Methylnaphthalene	1500	U
77-47-4	Hexachlorocyclopentadiene	1500	U
88-06-2	2,4,6-Trichlorophenol	1500	U
95-95-4	2,4,5-Trichlorophenol	1500	U
91-58-7	2-Chloronaphthalene	1500	U
88-74-4	2-Nitroaniline	1500	U
208-96-8	Acenaphthylene	1500	U
131-11-3	Dimethylphthalate	1500	U
606-20-2	2,6-Dinitrotoluene	1500	U
83-32-9	Acenaphthene	1500	U
99-09-2	3-Nitroaniline	1500	U
51-28-5	2,4-Dinitrophenol	3000	U
132-64-9	Dibenzofuran	3000	U
		1500	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number: 103-24

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mioduski

Profile: 25469-591 Site: Hawthorn Code: E8270 Units: ug/kg

Matrix: (soil/water) SOIL

Lab Sample ID: 1279002

Sample wt/vol: 30.012 (g/ml) G

Lab File ID: S4S88079.D

Level: (low/med) LOW

Date Collected: 07/25/00

% Moisture: 0.2 decanted:(Y/N) N

Date Extracted: 08/08/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/10/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
121-14-2	2,4-Dinitrotoluene	330	U
100-02-7	4-Nitrophenol	670	U
86-73-7	Fluorene	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
84-66-2	Diethylphthalate	330	U
100-01-6	4-Nitroaniline	670	U
534-52-1	4,6-Dinitro-2-methylphenol	670	U
86-30-6	n-Nitrosodiphenylamine(1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	670	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
56-55-3	Benzo[a]anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	900	
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo[b]fluoranthene	330	U
207-08-9	Benzo[k]fluoranthene	330	U
50-32-8	Benzo[a]pyrene	330	U
193-39-5	Indeno[1,2,3-cd]pyrene	330	U
53-70-3	Dibenz[a,h]anthracene	330	U
191-24-2	Benzo[g,h,i]perylene	330	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number: 103-24

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mioduski

Profile: 25469-591 Site: Hawthorn Code: E8270 Units: ug/kg

Matrix: (soil/water) SOIL

Lab Sample ID: 1279002

Sample wt/vol: 30.012 (g/ml) G

Lab File ID: S4S88079.D

Level: (low/med) LOW

Date Collected: 07/25/00

% Moisture: 0.2 decanted:(Y/N) N

Date Extracted: 08/08/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/10/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
62-75-9	N-Nitrosodimethylamine	330	U
111-44-4	bis(2-Chloroethyl)ether	330	U
108-95-2	Phenol	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
95-50-1	1,2-Dichlorobenzene	330	U
100-51-6	Benzyl alcohol	330	U
39638-32-9	bis(2-chloroisopropyl)ether	330	U
95-48-7	2-Methylphenol	330	U
67-72-1	Hexachloroethane	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
106-44-5	4-Methylphenol	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	330	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	330	U
208-96-8	Acenaphthylene	330	U
131-11-3	Dimethylphthalate	330	U
606-20-2	2,6-Dinitrotoluene	330	U
83-32-9	Acenaphthene	330	U
99-09-2	3-Nitroaniline	330	U
51-28-5	2,4-Dinitrophenol	670	U
132-64-9	Dibenzofuran	670	U
		330	U

FORM I SV-1

3/90

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number: 103-25

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mioduski

Profile: 25469-591 Site: Hawthorn Code: E8270 Units: ug/kg

Matrix: (soil/water) SOIL

Lab Sample ID: 1279001

Sample wt/vol: 30.011 (g/ml) G

Lab File ID: S4S88018.D

Level: (low/med) LOW

Date Collected: 07/25/00

% Moisture: 0.4 decanted:(Y/N) N

Date Extracted: 08/01/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/02/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
121-14-2	2,4-Dinitrotoluene	330	U
100-02-7	4-Nitrophenol	670	U
86-73-7	Fluorene	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
84-66-2	Diethylphthalate	330	U
100-01-6	4-Nitroaniline	670	U
534-52-1	4,6-Dinitro-2-methylphenol	670	U
86-30-6	n-Nitrosodiphenylamine(1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	670	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
56-55-3	Benzo[a]anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	330	JB
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo[b]fluoranthene	330	U
207-08-9	Benzo[k]fluoranthene	330	U
50-32-8	Benzo[a]pyrene	330	U
193-39-5	Indeno[1,2,3-cd]pyrene	330	U
53-70-3	Dibenz[a,h]anthracene	330	U
191-24-2	Benzo[g,h,i]perylene	330	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number: 103-25

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mioduski
Profile: 25469-591 Site: Hawthorn Code: E8270 Units: ug/kg
Matrix: (soil/water) SOIL
Lab Sample ID: 1279001
Sample wt/vol: 30.011 (g/ml) G
Lab File ID: S4S88018.D
Level: (low/med) LOW
Date Collected: 07/25/00
% Moisture: 0.4 decanted:(Y/N) N
Date Extracted: 08/01/00
Concentrated Extract Volume: 1000 (uL)
Date Analyzed: 08/02/00
Injection Volume: 1.0 (uL)
Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
62-75-9	N-Nitrosodimethylamine	330	U
111-44-4	bis(2-Chloroethyl)ether	330	U
108-95-2	Phenol	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
95-50-1	1,2-Dichlorobenzene	330	U
100-51-6	Benzyl alcohol	330	U
39638-32-9	bis(2-chloroisopropyl)ether	330	U
95-48-7	2-Methylphenol	330	U
67-72-1	Hexachloroethane	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
106-44-5	4-Methylphenol	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	330	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	330	U
208-96-8	Acenaphthylene	330	U
131-11-3	Dimethylphthalate	330	U
606-20-2	2,6-Dinitrotoluene	330	U
83-32-9	Acenaphthene	330	U
99-09-2	3-Nitroaniline	670	U
51-28-5	2,4-Dinitrophenol	670	U
132-64-9	Dibenzofuran	330	U

SAMPLE SUMMARY

Field Number	Date Collected	LISMD Number	Data File Number	Matrix
103-25	7/25/00	1279001	s4s88018.d	Soil
103-24	7/25/00	1279002	s4s88079.d	Soil
103-23 *	7/25/00	1279003	s4s88047.d	Soil
103-22 *	7/25/00	1279004	s4s88045.d	Soil
104-13	7/26/00	1279005	s4s88077.d	Soil
104-12 *	7/25/00	1279006	s4s88078.d	Soil
104-11	7/25/00	1279007	s4s88048.d	Soil
104-10 *	7/25/00	1279008	s4s88049.d	Soil
108-8E *	7/25/00	1279009	s4s88013.d	Soil
108-26 *	7/25/00	1279010	s4s88040.d	Soil
110-100	7/25/00	1279011	s4s88010.d	Soil
110-99 *	7/25/00	1279012	s4s88014.d	Soil
		1279012MS	m4s88015.d	Soil
		1279012MSD	m4s88016.d	Soil
10-S-1	7/26/00	1279013	s4s88042.d	Soil
		1279013MS	m4s88043.d	Soil
		1279013MSD	m4s88044.d	Soil
10-S-2	7/26/00	1279014	s4s88033.d	Soil
10-SB-1	7/26/00	1279015	s4s88038.d	Soil
10-SB-2	7/26/00	1279016	s4s88039.d	Soil
10-SB-3	7/26/00	1279017	s4s88027.d	Soil
LF-S-1	7/26/00	1279018	s4s88031.d	Soil
LF-S-2	7/26/00	1279019	s4s88026.d	Soil
LF-S-3	7/26/00	1279020	s4s88029.d	Soil
LF-SB-1	7/26/00	1279021	s4s88028.d	Soil
LF-SB-2	7/26/00	1279022	s4s88030.d	Soil
LF-SB-3	7/26/00	1279023	s4s88032.d	Soil
49-32 *	7/25/00	1279036	s4s88041.d	Soil
49-30	7/25/00	1279037	s4s88034.d	Soil
101-26 *	7/25/00	1279038	s4s88012.d	Soil
103-33	7/25/00	1279039	s4s88011.d	Soil

* - Samples could not be adjusted to a final volume of 1.0 mL, the results are adjusted accordingly.