TABLE 2-1
GEOPHYSICAL INVESTIGATION SUMMARY

SWMU Number	Description	Geophysical Method	Reason for Survey	Successful
1[1]	South Landfill	EM [2]	Disposal of construction/demolition debris, scrap metal, iron oxide kiln residue, crushed metal, polyurethane wastes, shipping and packing materials, refractory brick, and asbestos insulation. Miscellaneous 55-gallon drums used for disposal of some wastes.	Yes [5]
2[1]	Sludge Lagoon	EM	Disposal of clarifier sludge, iron oxide kiln residue, isocyanate residue, filter cake, diamine residue, drummed isocyanate, resins, and toluene diisocyanate (TDI) residue.	Yes
3[1]	Fill Area, Hydroblasting Station	EM	Used to clean equipment of solids that accumulated during operation and movement of wastes. Fill material beneath the Hydroblasting Station consists of South Landfill materials.	Yes
5[3]	Residual Fill Area, Unit 3Fc	EM[3]	Fill material may include TDI residue.	No
6[3]	Residual Fill Area, Unit 3Fd	EM[3]	Fill material includes crushed and compacted chemical residue (possibly TDI)	No
7	Fill Materials, Block 21	GPR[4]	Contains fill material described as "plant residue" which may include TDI residue.	Yes
9	Residue Fill Area, Unit 3Fe	GPR	Fill Material may include TDI residue.	No
9	Residue Fill Area, Unit 3Fe	EM[3]	Fill Material may include TDI residue.	No
10	Infilled Waste Water & Former Process Ditch	GPR	A ditch that handled run off, raw wastewater, and spills from throughout the facility. Neutralization units, consisting of crushed limestone, were used to treat wastewater.	No
15	Existing Process Ditch	GPR	Formerly an unlined basin for acidic wastewater and spills from throughout the facility. Neutralization units, consisting of crushed limestone, were used to treat wastewater.	No
19[3]	Residual Fill Area, Unit 3 Fa	EM[3]	Formerly an unlined earthen basin for acidic wastewater from the phosgene co-production unit	No
21	Nitrations Neutralization/ Settling Basin, Unit 5Fc	GPR	Fill material may include TDI residue.	Yes
24[3]	Nuetralization Trench/Basin Unit 5Fc	GPR[3]	Formerly an unlined earthen basin used to neutralize hydrochloric acid contaminated with chlorobenzene and 1,2-dichlorobenzene. Thermal oxidizer constructed at this location in 1993.	No
30	Residue Fill Area, Unit 3Fb	EM	Fill Material may include TDI residue.	Yes

Notes:
(1) SWMUs 1, 2, and 3 are collectively referred to as the South Landfill Complex. The EM surveys performed in these areas were performed simultaneously.
(2) "EM" denotes electromagnetic conductivity survey.
(3) Additional SWMUs that the USEPA desired electromagnetic or ground penetrating radar surveys.
(4) "GPR" denotes ground penetrating radar.
(5) "Yes" denotes that data was collected and data quality was adequate for interpretation.

TABLE 2-2

SWMUs EVALUATED BY SOIL GAS SURVEYS

SWMU	Description
1	South Landfill
2	Sludge Lagoon
3	Fill Area, Hydroblasting Station
5	Residue Fill Area, Unit 3Fc
6	Residue Fill Area Unit 3Fd
7	Fill Materials, Block 21
8	All Purpose Burning Pit
9	Residue Fill Area, Unit 3Fe
10	Infilled Wastewater Ditch
11	Acid Neutralization Facility 5Fg
12	Former Neutralization Spill Basin
13	Existing Process Trench
14	Fill Materials, Block 11
15	Neutralization and Settling Basin 5Fe
16	Neutralization Basin 5Fe
17	Polyol Spill
18	Lab Area 24A
19	Residue Fill Area, Unit 3Fa
20	Nitrations Neutralization Settling Basin 5Fb
21	Nitrations Neutralization
22	Vortex Burner
23	TDI Area 26B
24	Neutralization Trench/Basin 5Fd
26	Former Waste Disposal Incinerator
27	Mononitrobenzene Area
28	Iron Oxide Area 28A
29	Fill Materials, Block 28
30	Residue Fill Area, Unit 3Fb

TABLE 2-3

SOIL GAS SURVEY ANALYTICAL LIST

Volatile Organic Compounds	
1,1,1,2-Tetrachloroethane (1,1,1,2-PCA)	Deutero-acetone [1]
1,1,1-Trichloroethane (1,1,1-TCA)	D6-Benzene [1]
1,1,2,2-Tetrachloroethane (1,1,2,2-PCA)	Deutero-chloroform [1]
1,1,2-Trichloroethane (1,1,2-TCA)	Deutero-methylene chloride [1]
1,1-Dichloroethane (1,1-DCA)	Deuterated tetrahydrofuran [1]
1,1-Dichloroethene (1,1-DCE)	Dibromochloromethane
1,2-Dichloroethane (1,2-DCA)	Ethylbenzene
1,2-Dichloroethene (total) (1,2-DCE)	Freon-11
1,2-Dichloropropane	Freon-113
2-Butanone	Freon-12
2-Hexanone	Hydrocarbons (C7-C19)
4-Methyl-2-Pentanone	Hydrocarbons (C3-C6)
Acetone	Methylene Chloride
Benzene	Styrene
Bromodichloromethane	Tetrachloroethene (PCE)
Bromoform	Toluene
Bromomethane	Trichloroethene (TCE)
Carbon Tetrachloride	Vinyl Chloride
Chlorobenzene	Xylene (total)
Chloroethane	cis-1,2-Dichloropropene
Chloroform	trans-1,3-Dichloropropene

Note:

[1] Indicates surrogate compound

TABLE 2-4

MONITORING WELLS FOR CMS GROUNDWATER SAMPLE COLLECTION

Monitoring Well	Aquifer
FP-4	Alluvial
FP-12	Alluvial
FP-13	Alluvial
FP-16	Alluvial
FP-17	Alluvial
FP-19	Alluvial
GM-5S	Shallow Alluvial
GM-5D	Deep Alluvial
GM-13P	Perched
GM-16S	Shallow Alluvial
GM-16D	Deep Alluvial
LF-1P	Perched
LF-1S	Shallow Alluvial
LF-4S	Shallow Alluvial
LF-4D	Deep Alluvial
MW-1P	Perched
MW-3S	Shallow Alluvial
MW-3D	Deep Alluvial
MW-4S	Shallow Alluvial
MW-4D	Deep Alluvial
MW-7S	Shallow Alluvial
MW-9D	Deep Alluvial
MW-10S	Shallow Alluvial
MW-11D	Deep Alluvial
MW-12D	Deep Alluvial
RW-1	Recovery-Alluvial
RW-2	Recovery-Alluvial
RW-3	Recovery-Alluvial

BLE 2-5
TASK 5 - SOIL INVESTIGATION SUMMARY

SWMU(1)	COLLECTION METHOD	BORING	SAMPLE INTERVAL(7) (ft bgs)	CHEMICAL/GEOTECHNICAL ANALYSES
1	7 HSA(6) (split- spoon)	TB01	0001, 0305, 1618, and 2830	VOC(2), SVOC(3), and Metals
		TB02	0002, 0305, 1213, 2426, 3133, and 4547	
		TB03	0001, 0305, 1517, 2931, 3537, and 5355	
		TB04	0001, 0305, and 0911	VOC, SVOC, Metals, TOC(4), and pH
		TB05	0001, 0305, and 3739	VOC, SVOC, and Metals
		TB06	0002, 0305, 2022, 2430, 4244, 5658, and 6065	
		TB07	0002, 0305, 0709, 1820, and 2226	
	2 Shelby Tubes and 2 bags	TB02	0002 (bag)	Sieve and Hydrometer
		TB04	0002 (bag), 0305, and 11 to 13.5	Sieve and Hydrometer, Atterberg Limits, Moisture Content, Specific Gravity, and Consolidation
2	3 HSA (split-spoon)	TB01	0001, 0305, 1315, 2931, 3133, 3537, 3739, 3941, 4143, and 5557	VOC, SVOC, and Metals
		TB02	0002, 0305, 1012, 1618, 1820, 2425, 4749, and 5860	VOC, SVOC, and Metals
		TB03	0001, 0305, 1517, and 1719	VOC, SVOC, and Metals
	2 Shelby Tubes and 1 bag	TB02	0002 (bag)	Sieve and Hydrometer
			0305 and 3537	Sieve and Hydrometer, Atterberg Limits, Moisture Content, Specific Gravity, and Consolidation
3	2 HSA (split-spoon)	TB01	0001, 0305, 0507, 0709, 0911, and 1113	VOC, SVOC, and Metals
		TB02	0001 and 0305	VOC, SVOC, and Metals
	1 HSA (concrete chips)	CC01	0 to .05	VOC, SVOC, and Metals
4	6 HSA (split spoon)	TB01	0001	VOC, SVOC, Metals, and TOC
			0002	TOC
		TB01	0305, 1315, 1921, 2527, 2729, and 2931	VOC, SVOC, and Metals
		TB02	0001, 0305, 1113, 1921, and 3941	VOC, SVOC, and Metals

TABLE 2-5 (Continued)
TASK 5 - SOIL INVESTIGATION SUMMARY

4 (Cont.)	6 HSA (split spoon) (cont.)	TB03	0001 and 1719	VOC, SVOC, and Metals
			0305	VOC, SVOC, Metals, and TOC
		TB04	0001, 0305, and 2325	VOC, SVOC, and Metals
		TB05	0406 and 0607	VOC, SVOC, and Metals
		TB06	1012 and 1214	VOC, SVOC, and Metals
	2 Shelby Tubes	TB01	0002	Sieve and Hydrometer and Bulk Density
		TB03	0305	Sieve and Hydrometer and Bulk Density
5	11 Geoprobe	TB01	0001, 0305, and 14.6 to 16.6	VOC, SVOC, and Metals
		TB02	0001, 0305, 0509, 1517, and 18.2 to 20	VOC, SVOC, and Metals
		TB03	0001	VOC, SVOC, Metals, and Metals
			0305 and 14.6 to 16.6	VOC, SVOC, and Metals
		TB04	0001, 0305, and 16.5 to 17.5	VOC, SVOC, and Metals
		TB05	0001, and 2830	VOC, SVOC, and Metals
			0305 and 0709	VOC, SVOC, Metals, TOC, and pH
			1315	VOC, SVOC, Metals, and TDI
			2224	VOC, SVOC, Metals, TOC, pH, BTU[5], % ASH, and Flash Point
		TB06	0001, 0305, 1012, and 15.3 to 17.3	VOC, SVOC, and Metals
		TB07	0001 and 0305	VOC, SVOC, and Metals
		TB08	0001, 0305, and 11.6 to 13.6	VOC, SVOC, and Metals
		TB09	0001, 0305, and 0709	VOC, SVOC, and Metals

TAB[illegible]-5 (Continued)
TASK 5 - SOIL INVESTIGATION SUMMARY

5 (cont.)	11 Geoprobe (cont.)	TB10	0001, 0305, 0507, 0911, 1113, and 17.3 to 19.3	VOC, SVOC, and Metals
		TB11	0001 and 0305	VOC, SVOC, and Metals
	4 Shelby Tubes	TB03	0103 and 1416	Sieve and Hydrometer
		TB05	0305	Sieve and Hydrometer, Atterberg Limits, Moisture Content, Bulk Density Specific Gravity, Consolidation, and Permeability
			2224	Sieve and Hydrometer, Moisture Content, Bulk Density, Specific Gravity, and Permeability
6	5 Geoprobe	TB01	0001, 0305, and 2123	VOC, SVOC, and Metals
			0709 and 1113	VOC, SVOC, Metals, TOC, and pH
		TB02	0001	VOC, SVOC, Metals, and TOC
			0305, 0709, 1517, and 2123	VOC, SVOC, Metals, TOC, and pH
		TB03	0001, 0305, 0507, 1315, and 1719	VOC, SVOC, and Metals
		TB04	0001, 0305, 0507, 0709, and 1820	VOC, SVOC, and Metals
		TB05	0001, 0305, 0911, and 2123	VOC, SVOC, and Metals
	4 Shelby Tubes	TB02	0 to 2.5	Sieve and Hydrometer and Bulk Density
			0305, 0507, and 1517	Sieve and Hydrometer, Moisture Content, Bulk Density, Specific Gravity, and Permeability
7	11 Geoprobe	TB01	0001	VOC, SVOC, Metals, and TOC
			0305 and 1517	VOC, SVOC, and Metals
		TB02	0001, 0305, 1113, 1416, and 17.1 to 19.1	VOC, SVOC, and Metals
		TB03	0001, 0305, and 13.1 to 15.1	VOC, SVOC, and Metals
		TB04	0001, 0305, 0507, and 0709	VOC, SVOC, Metals, TOC, pH, BTU, % ASH, and Flash Point
		TB05	0001, 0305, and 16.6 to 18.6	VOC, SVOC, and Metals

TABLE 2-5 (Continued)
TASK 5 - SOIL INVESTIGATION SUMMARY

7 (cont.)	11 Geoprobe	TB06	0001, 0305, 8.5 to 10.5, and 1517	VOC, SVOC, and Metals
		TB07	0001, 0305, and 17.1 to 19.1	VOC, SVOC, and Metals
		TB08	0001, 0305, and 1517	VOC, SVOC, and Metals
		TB09	0001, 0305, and 1618	VOC, SVOC, and Metals
		TB10	0001, 0305, and 1217	VOC, SVOC, and Metals
		TB11	0001, 0305, 17.8 to 19.8	VOC, SVOC, and Metals
	2 Shelby Tubes and 1 bag	TB01	0 to 2.5 (bag)	Sieve and Hydrometer
		TB04	0305 and 0507	Sieve and Hydrometer, Bulk Density, Moisture Content, and Permeability
8	1 Geoprobe	TB01	0001	VOC, SVOC, Metals, and TOC
			0305 and 1113	VOC, SVOC, Metals, TOC, and pH
			0709	VOC, SVOC, Metal, TOC ph, and 2,4- and 2,6 TDI
			1416	VOC, SVOC, and Metals
	2 Shelby Tubes and 1 bag	TB01	0 to 2.5 (bag)	Sieve and Hydrometer
			0305 and 1416	Sieve and Hydrometer, Moisture Content, Bulk Density, Specific Gravity, and Permeability
9	3 Geoprobe	TB01	0001, 0305, and 17.6 to 19.6	VOC, SVOC, and Metals
		TB02	0001	VOC, SVOC, Metals, and TOC
			0305	VOC, SVOC, Metals, TOC, and pH
			17.4 to 19.4	VOC, SVOC, and Metals
		TB03	0001, 0305, and 10.3 to 12.3	VOC, SVOC, and Metals
	2 Shelby Tubes and 1 bag	TB02	0 to 2.5 (bag)	Sieve and Hydrometer
			0305 and 1214	Sieve and Hydrometer, Moisture Content, Bulk Density, Specific Gravity, and Permeability

TAB 5 (Continued)
TASK 5 - SOIL INVESTIGATION SUMMARY

10	21 Geoprobe	TB01	0001, 0305, and 11.9 TO 13.9	VOC, SVOC, and Metals
		TB02	0001	VOC, SVOC, Metals, and TOC
			0305 and 0507	VOC, SVOC, Metals, TOC, and pH
			18 to 19.7	VOC, SVOC, and Metals
		TB03	0001, 0305, and 8.9 to 10.9	VOC, SVOC, and Metals
		TB04	0001, 0305, and 15.1 to 17.1	VOC, SVOC, and Metals
		TB05	0001, 0305, and 0709	VOC, SVOC, and Metals
			1214	VOC, SVOC, Metals, TOC , pH, % ASH, BTU, and Flash Point
		TB06	0001, 0305, and 0709	VOC, SVOC, and Metals
		TB07	0001, 0305, 0709, 1113, and 15.3 to 17	VOC, SVOC, and Metals
		TB08	0001	VOC, SVOC, Metals, and TOC
			0305 and 1315	VOC, SVOC, Metals, TOC, pH, BTU, % ASH, and Flash Point
			0709	VOC
		TB09	0001, 0305, 1113, and 1517	VOC, SVOC, and Metals
		TB10	0001, 0305, and 18.1 to 20.1	VOC, SVOC, and Metals
		TB11	0001, 0305, 0608, and 17.4 to 19.4	VOC, SVOC, and Metals
		TB12	0001, 0305, and 10.0 to 10.5	VOC, SVOC, and Metals
		TB13	0001, 0305, and 16.3 to 18.3	VOC, SVOC, and Metals
		TB14	0001	VOC, SVOC, Metals, and TOC
			0305	VOC, SVOC, Metals, TOC, pH, % ASH, BTU, and Flash Point
			16.3 to 18.3	VOC, SVOC, and Metals
		TB15	0001, 0305, 7-8 and 15.4 to 17	VOC, SVOC, and Metals

TABLE 2-5 (Continued)
TASK 5 - SOIL INVESTIGATION SUMMARY

10 (cont.)	Geoprobe (cont.)	TB16	0001, 0305, 18.7 to 20.7	VOC, SVOC, and Metals
		TB17	0001	VOC, SVOC, Metals, and TOC
			0305 and 10.1 to 12.1	Voc, SVOC, Metals, TOC, pH, % ASH, BTU, and Flash Point
			17.6 to 19.4	VOC, SVOC, and Metals
		TB18	0001, 0305, 8.4 to 10.4, and 1517	VOC, SVOC, and Metals
		TB19	0001, 0305, and 18.2 to 20.2	VOC, SVOC, and Metals
		TB20	0001	VOC, SVOC, Metals, and TOC
			0305	VOC, SVOC, Metals, TOC, pH, % ASH, BTU, and Flash Point
			1617 and 18.6 to 20	VOC, SVOC, and Metals
		TB21	0001, 0305, 0709, 1113, and 1820	VOC, SVOC, and Metals
	21 Shelby Tubes and 1 bag	TB02	0103	Sieve and Hydrometer and Bulk Density
			0305, 0709, and 1315	Sieve and Hydrometer, Bulk density, Moisture Content, and Permeability
		TB05	0103	Sieve and Hydrometer and Bulk Density
			0305 and 1214	Sieve and Hydrometer, Bulk Density, Moisture Content, and Permeability
		TB08	.5 to 2.5	Sieve and Hydrometer and Bulk Density
			0305 and 1315	Sieve and Hydrometer, Bulk Density, Moisture Content, and Permeability
		TB11	.5 to 2.5	Sieve and Hydrometer and Bulk Density
			0305 and 0608	Sieve and Hydrometer, Bulk Density, Moisture Content, and Permeability
		TB14	0103	Sieve and Hydrometer and Bulk Density
			0305 and 1517	Sieve and Hydrometer, Bulk Density, Moisture Content, and Permeability
		TB17	0103 (bag)	Sieve and Hydrometer and Moisture Content
			0305 and 1012	Sieve and Hydrometer, Bulk Density, Moisture Content, and Permeability
		TB20	.5 to 2.5	Sieve and Hydrometer and Bulk Density
			0305 and 1416	Sieve and Hydrometer, Bulk Density, Moisture Content, and Permeability

TAB 5 (Continued)
TASK 5 - SOIL INVESTIGATION SUMMARY

11	1 Geoprobe	TB01	0001 and 0305	VOC, SVOC, Metals, and TOC
	1 bag	TB01	0 to 2.5 (bag)	Sieve and Hydrometer
12	3 Geoprobe	TB01	0001, 0305, 0709, 1113, and 1317	VOC, SVOC, and Metals
		TB02	0001 and 0913	VOC, SVOC, Metals, TOC, pH, % ASH, BTU, and Flash Point
			0305	VOC, SVOC, and Metals
		TB03	0001, 0305, 1113, and 1517	VOC, SVOC, and Metals
	2 Shelby Tubes	TB02	0204 and 1113	Sieve and Hydrometer, Bulk Density , Moisture Content, and Permeability
13	8 Geoprobe	TB01	0001	VOC, SVOC, Metals and TOC
			0305 and 2023	VOC, SVOC, and Metals
		TB02	0001, 0305, 0507, 1113, and 1517	VOC, SVOC, and Metals
		TB03	0001, 0305, and 16.1 to 18.1	VOC, SVOC, and Metals
		TB04	0001	VOC, SVOC, Metals, and TOC
			0305, 1113, and 16.2 to 17.8	VOC, SVOC, and Metals
		TB05	0001, 0305, and 17.7 to 19.7	VOC, SVOC, and Metals
		TB06	0001, 0305, and 12.7 to 14.7	VOC, SVOC, and Metals
		TB07	0001, 0305, and 13.4 to 15.4	VOC, SVOC, and Metals
		TB08	0102 and 0911	VOC, SVOC, Metals, and TOC
			0305 and 15.1 to 17.1	VOC, SVOC, and Metals
	9 Shelby Tubes and 1 bag	TB01	0 to 2.5	Sieve and Hydrometer
			1 to 2.5 (bag)	Bulk Density
		TB02	5.5 to 7.5 and 1517	Sieve and Hydrometer and Bulk Density

TABLE 2-5 (Continued)
TASK 5 - SOIL INVESTIGATION SUMMARY

13	9 Shelby Tubes and 1 bag (cont.)	TB04	0103	Sieve and Hydrometer and Bulk Density
		TB05	0305 and 1517	Sieve and Hydrometer and Bulk Density
		TB08	0305, 0911, and 1416	Sieve and Hydrometer and Bulk Density
14	3 Geoprobe	TB01	0001, 0305, and 16.8 to 18.8	VOC, SVOC, and Metals
		TB02	0001, 0305, and 15.8 to 19.2	VOC, SVOC, and Metals
		TB03	0001, 0305, and 1921	VOC, SVOC, and Metals
	3 Shelby Tubes	TB02	0103	Sieve and Hydrometer
			0305 and 1719	Sieve and Hydrometer, Moisture Content, Bulk Density, Specific Gravity, and Permeability
15	4 Geoprobe	TB01	0001, 0305, 0709, and 18.8 to 20.8	VOC, SVOC, and Metals
		TB02	0001	VOC, SVOC, Metals, and TOC
			0305 and 1315	VOC, SVOC, Metals, TOC, and pH
			1921	VOC, SVOC, and Metals
		TB03	0001, 0305, 0709, 1012, 1316, and 17 to 19.7	VOC, SVOC, and Metals
		TB04	0001, 0305, 0508, and 17.7 to 19.7	VOC, SVOC, and Metals
	3 shelby Tubes	TB02	.5 to 2.5	Sieve and Hydrometer and Bulk Density
			0305 and 1315	Sieve and Hydrometer, Bulk Density, Moisture Content, and Permeability
16	1 Geoprobe	TB01	0001, 0305, and 1517	VOC, SVOC, Metals, and TOC
			0709 and 1820	VOC, SVOC, and Metals
	2 Shelby Tubes	TB01	0305 and 1517	Sieve and Hydrometer and Bulk Density

TAB[illegible]5 (Continued)
TASK 5 - SOIL INVESTIGATION SUMMARY

17	2 Geoprobe	TB01	0001	VOC, SVOC, and Metals
			0305	VOC, SVOC, Metals, and TOC
		TB02	0001	VOC, SVOC, Metals, and TOC
			0305	VOC, SVOC, and Metals
	2 Shelby Tubes	TB01	0305	Sieve and Hydrometer and Bulk Density
		TB02	0.5 to 2.5	Sieve and Hydrometer and Bulk Density
18	1 Geoprobe	TB01	0001	VOC, SVOC, Metals, TOC and pH
			0305 and 1820	VOC, SVOC, and Metals
	2 Shelby Tubes	TB01	0103 and 1719	Sieve and Hydrometer and Bulk Density
19	4 Geoprobe	TB01	0001, 0305, and 1416	VOC, SVOC, and Metals
		TB02	0001, 0305, 1113, and 1618	VOC, SVOC, and Metals
		TB03	0001 and 1719	VOC, SVOC, and Metals
			0305	VOC, SVOC, Metals, TOC, pH, % ASH, BTU, and Flash Point
			0709	VOC, SVOC, Metals, TOC, pH, % ASH, BTU, Flash Point, and TDI
		TB04	0001, 0305, 0506, and 18.5 to 20.5	VOC, SVOC, and Metals
	4 Shelby Tubes	TB02	0103	Sieve and Hydrometer and Bulk Density
		TB03	0.5 to 1.5	Sieve and Hydrometer and Bulk Density
			0305 and 0709	Sieve and Hydrometer, Bulk Density, Moisture Content, and Permeability
20	2 Geoprobe	TB01	0001	VOC, SVOC, Metals, and TOC
			0305 and 18.2 to 19.4	VOC, SVOC, and Metals
		TB02	0001, 6.6 to 8, and 18.8 to 20.8	VOC, SVOC, and Metals
			0305	VOC, SVOC, Metals, TOC, pH, % ASH, BTU, and Flash Point
	2 Shelby Tubes	TB01	0103	Sieve and Hydrometer and Bulk Density
		TB02	0305	Sieve and Hydrometer, Bulk Density, Moisture Content, and Permeability

TABLE 2-5 (Continued)
TASK 5 - SOIL INVESTIGATION SUMMARY

21	2 Geoprobe	TB01	0001	VOC, SVOC, Metals, and TOC
			0305, 10.6 to 12.6, and 18.3 to 20.3	VOC, SVOC, and Metals
		TB02	0001, 7.5 to 9, and 18.3 to 20.3	VOC, SVOC, and Metals
			0305 and 10.7 to 13.7	VOC, SVOC, Metals, TOC, pH, % ASH, BTU, and Flash Point
	3 Shelby Tubes	TB01	0103	Sieve and Hydrometer and Bulk Density
			0305 and 1012	Sieve and Hydrometer, Bulk Density, Moisture Content, and Permeability
22	2 Geoprobe	TB01	0102	VOC, SVOC, Metals, and TOC
			0305 and 1618	VOC, SVOC, and Metals
		TB02	0001 and 1517	VOC, SVOC, and Metals
			0305	VOC, SVOC, Metals, TOC, pH, % ASH, BTU, and Flash Point
	2 Shelby Tubes	TB01	0103	Sieve and Hydrometer and Bulk Density
		TB02	0305	Sieve and Hydrometer, Bulk Density, Moisture Content, and Permeability
23	2 Geoprobe	TB01	0102	VOC, SVOC, Metals, and TOC
			0305 and 16.3 to 18.3	VOC, SVOC, and Metals
		TB02	0102 and 16.3 to 18.3	VOC, SVOC, and Metals
			0305	VOC, SVOC, Metals, and TOC
	3 Shelby Tubes	TB01	1.5 to 3.0, 0305, and 1719	Sieve and Hydrometer and Bulk Density
24	2 Geoprobe	TB01	0001 and 1517	VOC, SVOC, Metals, and TOC
			0305	VOC, SVOC, and Metals
		TB02	0001 and 1618	VOC, SVOC, and Metals
			0305	VOC, SVOC, Metals, TOC, pH, % ASH, BTU, and Flash Point
	3 Shelby Tubes	TB01	0103	Sieve and Hydrometer and Bulk Density
		TB02	0305 and 1618	Sieve Hydrometer, Bulk Density, Moisture Content, and Permeability

TAB[illegible]5 (Continued)
TASK 5 - SOIL INVESTIGATION SUMMARY

25	1 Geoprobe	TB01	0001	VOC, SVOC, Metals, and TOC
			0305 and 17.8 to 19.8	VOC, SVOC, and Metals
	1 Shelby Tube	TB01	0103	Sieve and Hydrometer and Bulk Density
	1 Hand Auger	AS01	0001	VOC, SVOC, Metals, TOC, and pH
26	2 Geoprobe	TB01	0001 and 6.3 to 8.3	VOC, SVOC, and Metals
			0305	VOC, SVOC, Metals,and Metals
		TB02	0001	VOC, SVOC, Metals, and TOC
			0305 and 11.2 to 12.4	VOC, SVOC, and Metals
	3 Shelby Tubes	TB01	0305	Sieve Hydrometer and Bulk Density
		TB02	0103 and 0608	Sieve Hydrometer and Bulk Density
27	6 Geoprobe	TB01	0001	VOC, SVOC, Metals, and TOC
			0305 and 16.6 to 18.6	VOC, SVOC, and Metals
		TB02	0001	VOC, SVOC, and Metals
			0305 and 5.8 to 7.8	VOC, SVOC, Metals, TOC, pH, % ASH, BTU, and Flash Point
		TB03	0001, 0305, 5.6 to 5.7, 1113, and 13.8 to 15.8	VOC, SVOC, and Metal
		TB04	0001	VOC, SVOC, Metals, and TOC
			0305, 1113, and 13.3 to 15.3	VOC, SVOC, and Metals
		TB05	0102, 0810, and 14.2 to 16.2	VOC, SVOC, and Metals
			0305 and 1214	VOC, SVOC, Metals, TOC, pH, % ASH, BTU, and Flash Point
		TB06	0001, 0305, and 13.8 to 15.8	VOC, SVOC, and Metals

TABLE 2-5 (Continued)
TASK 5 - SOIL INVESTIGATION SUMMARY

27 (cont.)	8 Shelby Tubes	TB01	1 to 2.5	Sieve and Hydrometer and Bulk Density
		TB02	0305 and 1214	Sieve and Hydrometer, Bulk Density, Moisture Content, and Permeability
		TB04	0103	Sieve and Hydrometer and Bulk Density
		TB05	0305	Sieve and Hydrometer and Bulk Density
			0406, 0810, and 1416	Sieve and Hydrometer, Bulk Density, Moisture Content, and Permeability
28	2 Geoprobe	TB01	0001	VOC, SVOC, Metals, and TOC
			0305 and 10.3 to 2.3	VOC, SVOC, and Metals
		TB02	0001 and 16.3 to 18.3	VOC, SVOC, and Metals
			0305	VOC, SVOC, Metals, and TOC
	1 HSA (concrete chip)	CC01	0 to .05	VOC, SVOC, and Metals
	2 Shelby Tubes	TB01	0103	Sieve and Hydrometer and Bulk Density
		TB02	0406	Sieve and Hydrometer and Bulk Density
29	2 Geoprobe	TB01	0001	VOC, SVOC, Metals, and TOC
			0305 and 12.8 to 14.8	VOC, SVOC, and Metals
		TB02	0001 and 1517	VOC, SVOC, and Metals
			0305	VOC, SVOC, Metals, TOC, pH, % ASH, BTU, and Flash Point
	3 Shelby Tubes and 1 bag	TB01	0204	Sieve and Hydrometer and Bulk Density
		TB02	0103 (bag)	Sieve and Hydrometer
			0305 and 1416	Sieve and Hydrometer, Bulk Density, Moisture Content, and Permeability
30	2 HSA (split-spoon)	TB01	0002	VOC, SVOC, and Metals
			0305 and 1921	VOC, SVOC, Metals, and TDI
		TB02	0002 and 0305	VOC, SVOC, and Metals
			2123	VOC, SVOC, Metals, and TDI

TAE 5 (Continued)
TASK 5 - SOIL INVESTIGATION SUMMARY

30 (cont.)	1 Geoprobe	TB03	0001 and 0709	VOC, SVOC, and Metals
			0305	VOC, SVOC, Metals, TOC, pH, % ASH, BTU, and Flash Point
	3 Shelby Tubes	TB01	1.5 to 3.5	Sieve and Hydrometer
		TB02	0507	Sieve and Hydrometer, Atterburg Limits, Bulk Density, Permeability, and Consolidation
		TB03	0305	Sieve and Hydrometer, Atterburg Limits, Bulk Density, Permeability, and Consolidation
BG	5 HSA (split-spoon	TB01	0001, 0305, and 0608	VOC, SVOC, Metals, TOC, pH, % ASH, BTU, and Flash Point
		TB02	0001, 0305, and 1416	VOC, SVOC, Metals, TOC, pH, % ASH, BTU, and Flash Point
		TB03	0001 and 0305	VOC, SVOC, Metals, TOC, pH, % ASH, BTU, and Flash Point
		TB04	0001, 0305, and 1012	VOC, SVOC, Metals, TOC, pH, % ASH, BTU, and Flash Point
		TB05	0001, 0305, and 1416	VOC, SVOC, Metals, TOC, pH, % ASH, BTU, and Flash Point

Notes:
(1) SWMU = Solid Wase Management Unit
(2) VOC = Volatile Organic Compound
(3) SVOC = Semivolatile Organic Compound
(4) TOC = Total Organic Carbon
(5) BTU = British Thermal Unit
(6) HSA = Hollow Stem Auger
(7) Intervals shown as four digit numbers with the first and last two numbers indicating the top and bottom of the interval, respectively

TABLE 2-6

SUMMARY OF QC INDICATORS EVALUATED DURING THE VALIDATION PROCESS

ORGANICS	
Volatile and Semivolatile	Action Level Notification Holding Times GC/MS Instrument Performance Check Initial Calibration Continuing Calibration Blanks System Monitoring Compounds Matrix Spike/Matrix Spike Duplicate Internal Standards Reported CRQLs Tentatively Identified Compounds
Pesticide/PCB	Action Level Notification Holding Times GC/ECD Instrument Performance Check Initial Calibration Continuing Calibration Blanks System Monitoring Compounds Matrix Spike/Matrix Spike Duplicate
INORGANICS	
Metals	Action Level Notification Holding Times Calibrations Blanks ICP Interference Checks Laboratory Control Samples Matrix Spikes Duplicates GFAA QA/QC Serial Dilutions Reporting Limit Verification Sample Paperwork

TABLE 2-7

SUMMARY OF TASK 8 SOIL BORINGS

SWMU		Soil Boring Number		Sample Interval	Analysis Performed		
GROUP	NUMBER	Resample	Phase 3	(ft-bgs)	VOC	SVOC	Metals
B	5	SM005 -TB11		0-1, 3-5		X	
B	5		SM005 -TB12	As Required	X	X	X
B	5		SM005 -TB13	As Required	X	X	X
B	5		SM005 -TB14	As Required	X	X	X
B	5		SM005 -TB15	As Required	X	X	X
B	6		SM006 -TB06	As Required	X	X	X
B	6		SM006 -TB07	As Required	X	X	X
C	7	SM007 -TB06		0-1		X	
C	7	SM007 -TB07		0-1		X	
C	7	SM007 -TB08		0-1		X	
C	7		SM007 -TB12	As Required	X	X	X
C	7		SM007 -TB13	As Required	X	X	X
C	7		SM007 -TB14	As Required	X	X	X
C	7		SM007 -TB15	As Required	X	X	X
D	10	SM010 -TB01		0-1, 3-5		X	
D	10	SM010 -TB04		3-5		X	
D	10	SM010 -TB05		3-5, 7-9		X	
D	10	SM010 -TB06		3-5, 7-9		X	
D	10	SM010 -TB10		0-1		X	
D	10	SM010 -TB11		6-8			X
D	10		SM010 -TB22	As Required	X	X	X
D	10		SM010 -TB23	As Required	X	X	X
D	10		SM010 -TB24	As Required	X	X	X
D	10		SM010 -TB25	As Required	X	X	X
D	12	SM012 -TB01		0-1, 3-5, 7-9		X	
D	12	SM012 -TB02		9-13		X	
	27	SM027 -TB06		0-1		X	
	27		SM027 -TB07	As Required	X	X	X
	27		SM027 -TB08	As Required	X	X	X
	27		SM027 -TB09	As Required	X	X	X

Note:
"As Required" = Samples were collected based on the rationale presented in Section 2.5.3

3.0 RISK ASSESSMENT APPROACH

This section presents the general approach and detailed technical methodologies used in the Human Health Risk Assessment of soils for the Bayer New Martinsville facility. The specific approaches and results for soil at each SWMU are presented in Section 4.

3.1 GENERAL APPROACH

An assessment of potential human health risks is a critical component in the interpretation of investigation data and in the RFI decision-making process. Thus, a "risk-driven" approach was applied to facilitate implementation of the RFI. The primary purpose of the risk assessment for the Bayer New Martinsville facility is to assist in the process of deciding the appropriate corrective action (if any) to take at each SWMU. Figure 3-1 presents the decision flow chart for the Human Health Risk Assessment.

The risk assessment presented in this report is in accordance with standard USEPA and USEPA Region III risk assessment methodologies. Soil is evaluated separately for each SWMU. Both residential and industrial land use are evaluated in the screening process. However, because the Bayer New Martinsville facility is an active industrial facility and will likely remain so for the foreseeable future, all corrective action decisions will be based on the assumption of future industrial land use. This is consistent with the USEPA Office of Solid Waste and Emergency Response Directive entitled *Land Use in the CERCLA Remedy Selection Process* (USEPA, 1995a), as well as the *Proposed Rule for Corrective Action for Releases from Solid Waste Management Units at Hazardous Waste Management Facilities* (USEPA, 1996a). These policy documents are applicable to RCRA sites such as the Bayer New Martinsville facility.

To facilitate the decision-making process at the Bayer New Martinsville facility, the RFI was conducted in a phased approach. During Phase 2, soil data for each SWMU were subjected to a "screening-level" risk assessment to prioritize SWMUs for further evaluation in Phase 3. The results of the screening-level risk assessment indicated which SWMUs required no further action and which would be evaluated further in the Phase 3 risk assessment. In Phase 3, SWMUs that required further action were grouped into SWMU Groups A through E for a screening-level risk assessment evaluation and if necessary, a site-specific risk assessment evaluation. SWMU groups were identified as follows, based on proximity and/or similar processes:

- SWMU Group A consists of SWMU units 1, 2, 3 and 4
- SWMU Group B consists of SWMU units 5 and 6

- SWMU Group C consists of SWMU units 7, 8, 9 and 11
- SWMU Group D consists of SWMU units 10, 12, 15 and 16

The phased approach to the soil risk assessment helped ensure that high-priority areas were identified quickly, any identified data gaps were filled, and redundancy and unnecessary data collection were minimized.

The Phase 2 Screening-level Risk Assessment included a comparison of soil analytical results of each individual SWMU to conservative risk-based screening criteria. If all detected constituent concentrations and detection limits were less than the screening criteria, then the SWMU site was recommended for no further action. SWMUs with detected concentrations or detection limits that exceed screening criteria were evaluated in subsequent phases of the risk assessment process as part of a defined SWMU Group. A more detailed description of the screening process for soil, including the criteria used for comparison to sampling data, is presented in Section 3.2.1.

For those SWMUs with detected constituent concentrations in soil samples that exceed USEPA default SSLs, a second level of screening was conducted against site-specific SSLs. The site-specific SSLs were derived based on USEPA (1996b) guidance, according to the methodology described in Section 3.2.2.

For SWMUs with detected constituent concentrations or detection limits in soil that exceed the industrial RBCs, a detailed site-specific data evaluation is conducted. This may be a quantitative or qualitative evaluation of data that considers factors such as frequency of detection (e.g., constituents of potential concern (COPCs) <5% may not be a concern), extent and distribution of detected constituents, and completeness of exposure pathways. Section 3.2.3 presents the approach used for the site-specific assessment of soil.

3.2 HUMAN HEALTH RISK ASSESSMENT FOR SOIL

This section discusses the specific methodologies used to conduct the human health risk assessment of soil at each SWMU. The risk assessment methodologies were based on the approaches presented in the RFI Work Plan.

The human health risk assessment for soils at the Bayer New Martinsville facility was conducted on a SWMU-specific basis. The first step to the phased approach of soil evaluation is the screening-level risk assessment.

3.2.1 Screening-level Risk Assessment

The Phase 2 screening-level risk assessment for soils consisted of a comparison of the analytical results to conservative risk-based screening criteria. On a SWMU-specific basis, maximum detected concentrations and maximum detection limits for all analytes were compared to USEPA Region III (1999) industrial and residential RBCs for soil and USEPA (1996b) default SSLs for soil-to-groundwater migration.

A complete list of the industrial and residential RBCs and default SSLs for all constituents is presented in Table 3.2-1. USEPA Region III does not provide RBCs for several of the constituents analyzed in soil at Bayer New Martinsville. For these constituents, surrogate criteria were selected based on similarities in constituent structure and toxicity. Surrogate criteria (where applicable) are indicated in the right-hand column of Table 3.2-1.

USEPA Region III does not provide an RBC for lead; however, USEPA Region III and Bayer agreed on screening criteria of 400 mg/kg for both residential soil and industrial soil (USEPA, 1997). These values were incorporated into the screening for soils at the Bayer New Martinsville facility.

The screening process involved creating a table to summarize soil analytical data on a SWMU-specific basis with the following information: (1) maximum detected concentrations; (2) maximum detection limits; and (3) frequency of detection. The maximum detected concentration and maximum detection limit of each constituent at each SWMU were compared to their respective industrial and residential RBCs and default SSLs.

SWMUs with detected constituent concentrations and detection limits less than the industrial RBCs and default SSLs were recommended for "no further action". The screening-level risk assessment for these individual SWMUs is presented in Section 4. Residential RBCs were also considered during the evaluation, but the need for further action was based on industrial land use criteria. The NFA recommendation is valid based on the following conservative assumptions built into the analysis:

(1) Soil samples were collected in areas suspected to contain the highest concentrations of constituents based on the configuration of each SWMU, historical knowledge, and the results of previous sampling events.

(2) The maximum detected concentration and detection limit of each constituent at each SWMU was compared to screening criteria. This was especially conservative because in many cases the maximum concentrations are well below the depth at which an individual may contact the soil.

(3) USEPA Region III Industrial RBCs are based on direct soil contact on a daily basis for an entire working lifetime. This comparison effectively assumes a worker spends an entire working lifetime within the boundaries of each SWMU. Many of the SWMUs are so small that such frequent exposure could not realistically or reasonably be assumed to occur. Additional conservatism is manifested by assuming that an individual would spend an entire working lifetime in contact with the maximum detected concentration. For SWMUs located outside the production area, plant personnel do not frequent these areas on a regular basis; in some cases, not at all. For SWMUs within the production area, about half of the work force may spend every working day in one area (production workers), while the other half (maintenance and utility workers) work throughout the plant and would not be in one area all the time.

(4) Potential effects of soil constituents on groundwater quality depend on several constituent-specific and site-specific factors including distance from source to groundwater, mass of the source, and distance from source to a potential receptor well. The default USEPA SSL approach assumes an infinite source close to groundwater and potential receptor wells. Using the maximum soil concentration in the screening process over-represents the source mass. Also, there are no off-site receptors for groundwater because groundwater is currently being captured and hydraulically contained on-site by ongoing pumping. Finally, on-site drinking water is treated prior to use. None of these factors were taken into account in this comparison, to assure conservatism in the initial screening.

SWMUs that were recommended for further action were grouped based on proximity and/or similar processes. A screening-level risk assessment for each Group is also presented in Section 4.

3.2.2 Site-Specific Soil Screening Levels

As discussed previously, USEPA default SSLs were initially used to screen soil at SWMUs to assess the potential for leaching to groundwater at levels of concern. USEPA derived the SSLs using a linear partitioning equation to which they applied a dilution attenuation factor (USEPA, 1996b). The partitioning of a constituent from soil to water is a function of many variables, both constituent-specific (e.g., soil-organic carbon partitioning coefficient) and site-specific (e.g., fraction organic carbon). The attenuation that occurs between the source area and a potential receptor location (e.g., off-site drinking water well) is a function of many additional parameters, most of which are site-specific (e.g., travel distance) as opposed to constituent-specific.

In deriving the default SSLs, USEPA made highly conservative assumptions regarding the variables that control leaching. These assumptions are highly conservative in that they greatly overestimate potential migration from soil to groundwater. To provide a more realistic assessment of potential releases to groundwater, site-specific SSLs were developed for those SWMUs at the Bayer New Martinsville facility having one or more constituents at concentrations that exceed the USEPA default SSLs. The same partitioning equation used by USEPA was employed in this analysis, substituting site-specific values for the default parameters when available. This approach is recommended by USEPA (1996b) when such data are available. The methods used for the site-specific SSL calculations are presented in Appendix F-2. Federal drinking water MCLs were used to derive the site specific SSLs. For constituents without a MCL, the USEPA Region III drinking water RBC was used to derive the site-specific SSL. The resulting SSLs for each respective SWMU and SWMU Group are presented in Table 3.2-2.

The analytical data for SWMUs with detected constituent concentrations that exceed the default USEPA SSLs were compared to the calculated site-specific SSLs. As in the initial screen against the default USEPA SSLs, this comparison was also conservative in that it was made using the maximum soil concentration and maximum detection limit. Consequently, although this is a more accurate comparison than using USEPA default SSLs, comparing the maximum concentrations to the site-specific SSLs overestimates the source mass, and for this reason is still overly conservative. The individual comparisons are presented in Section 4. SWMUs with maximum detected concentrations or detection limits less than the site-specific SSLs (as well as the RBCs) were recommended for NFA.

3.2.3 Site-specific Risk Assessment

For SWMU constituents with maximum detected concentrations exceeding site-specific SSLs or maximum detected concentrations and/or detection limits exceeding industrial RBCs, more evaluation was necessary to determine whether further action was warranted. The first step of the site-specific assessment is a detailed data evaluation.

Detailed Data Evaluation

SWMUs not placed into the NFA category based on the comparison to risk-based criteria or site-specific SSLs were carried through a detailed data evaluation. First, several rejected or "R" qualified data were not used for individual SWMUs. These data were removed from the data set

during the detailed data evaluation and are not used in the site-specific risk assessment. Second, all detected constituents were evaluated using one or more of the following: frequency of detection; extent and distribution of detected constituents (vertical extent especially for constituents with concentrations greater than SSLs); and whether exposure pathways are complete. For example, regarding frequency of detection, the maximum detection of a constituent may exceed its RBC; however, this may be the only detection out of a large number of samples. Furthermore, this detect could be located at depth or under a paved portion of the site where direct contact would not occur.

For constituents with detection limits that exceed screening criteria, the detailed data analysis also may have included an evaluation of whether these constituents are related to plant processes, have been detected at other SWMUs, or have elevated detection limits. If a detection limit was elevated, it was evaluated to assess the cause, and to determine if that indicates a data gap.

Based on the conclusions of the detailed data evaluation, SWMUs were either recommended for NFA or a site-specific human health risk assessment. Possible examples of justification for recommending NFA include low frequency (e.g., <5%) of concentrations exceeding screening criteria or exceedences of site-specific SSLs in a shallow but not a deeper sample from the same boring. SWMUs remaining after the detailed data evaluation were recommended for further risk assessment.

Human Health Risk Assessment

The initial phases of the risk assessment process identified several SWMUs where NFA was recommended. However, for the remaining SWMUs site-specific risk assessments were conducted based on SWMU Groupings, as well as individual SWMUs. The site-specific evaluations were performed during Phase 3 of the RFI.

In accordance with USEPA's Risk Assessment Guidance for Superfund (USEPA, 1989a) and supplemental risk assessment guidance (USEPA, 1992a), a human health risk assessment consists of the following steps:

- Identification of Constituents of Interest
- Exposure Assessment
- Toxicity Assessment
- Risk Characterization/Uncertainty Analysis.

Identification of Constituents of Interest

The first step of the risk assessment process involves identifying those constituents that have the greatest potential for producing carcinogenic and non-carcinogenic human health effects. This step was, in effect, conducted in the screening-level risk assessment phase. However, for the site-specific risk assessment scenarios, appropriate soil data sets were evaluated depending on the likely receptor(s) at that SWMU. If an industrial worker was identified as a potential receptor, the 0- to 2-foot data set was evaluated. For a construction worker scenario, the 0- to 5-foot data set was evaluated (to account for the possibility of digging). Constituents in soil from each data set identified as being present above their respective USEPA Region III Industrial RBCs were identified as constituents of interest (COI) for soil. However, other factors may be taken into consideration in the selection or exclusion of a constituent as a COI. These factors include environmental fate and transport properties, natural and anthropogenic background concentrations, and the likelihood that a constituent is site-related. In addition, any detected constituents of low inherent toxicity (i.e., essential nutrients) were eliminated as a COI.

Exposure Assessment

The exposure assessment identifies the applicable exposure pathways and the estimated intensity, frequency, and duration of contact between potential human receptors and the constituents of interest. It also combines exposure concentrations and intake assumptions to quantitatively estimate exposure (dose). Based on the current and future land use of the facility, industrial and construction workers were identified as the only two appropriate receptors. However, not all SWMUs may be candidates for the construction worker scenario. A phased approach was taken regarding selection of appropriate receptors for each SWMU Group. Initially, both receptors were assessed in the risk assessment, as a conservative assumption. If estimated risks and hazards were acceptable, no further refinement with regard to receptor selection was taken. However, if risks and hazards were unacceptable for the construction worker, a more detailed evaluation was performed to determine if this receptor would realistically be expected to be present at the SWMU Group. If compelling information exists to deselect the construction worker receptor, the exposure assessment was modified to take this into account.

These two receptors are assumed to be exposed to soil constituents via the following four standard pathways:

(1) incidental ingestion of soil;

(2) dermal contact with soil;

(3) inhalation of particulates released from soil; and

(4) inhalation of volatiles released from soil.

The fraction of impacted soil (FC) is defined as the fraction of environmental media contacted, via ingestion, dermal contact, or inhalation, at the area being evaluated. The FC is conservatively assumed to be 1.0 in most cases, but it may be based on best professional judgment using available site-specific information in a refined assessment. In most cases FC is set at 1.0, and an alternative FC is only used when estimated risks or hazards are above acceptable risk or hazard thresholds. Note: This approach was taken to streamline the risk assessment process. The two site-specific factors that are generally considered when designating an alternative FC are (1) site cover characteristics; and (2) indoor vs. outdoor exposure potential. Site cover may be gravel at some sites. This would significantly reduce the potential for soil exposure by industrial workers because gravel would not allow direct contact with soil and would significantly reduce particulate wind erosion resulting in less inhalation exposure.

The potential for an industrial worker to be outdoors (and thus exposed to soil) could also be quite low due to site-specific considerations, and workers spending most of the day indoors in an office environment would be expected to have an FC much less than 1.0. Most workers would only be outdoors when they walked from building to building, unless the site itself required outdoor work tasks that required the worker to be outside most of the work day. The exposure point concentrations in soil to which an industrial worker is assumed to be exposed at each SWMU is the 95% upper confidence limit (UCL) of the constituent concentration in the 0- to 2-foot depth interval. The exposure point concentrations to which a construction worker is assumed to be exposed at each SWMU is the 95% UCL of the constituent concentration in the 0- to 5-foot depth interval (to account for a digging scenario). The 95% UCL concentrations are derived based on USEPA (1992b) guidance, and are calculated according to the distribution of the data, normal versus lognormal.

The distributions of data sets for constituents in soil were tested for normality using the Shapiro and Wilk Test (W-Test). Non-detect values are incorporated into the data set at one-half the detection limit, and data from duplicate samples are averaged and considered as one sample. The equation for calculating the 95% UCL for a normally distributed data set is as follows (USEPA, 1992b):

$$95\%\ UCL = \bar{x} + \left(t \times \frac{s}{\sqrt{n}} \right)$$

where:

95% UCL	=	95% upper confidence limit
$\bar{x}$	=	mean of untransformed data
s	=	standard deviation of the untransformed data
t	=	Student t-statistic
n	=	number of samples

The equation for calculating the 95% UCL for a lognormally distributed data set is the following:

$$95\%\,UCL = exp\left(\bar{y} + 0.5\sigma_{\bar{y}}^{2} + \frac{\sigma_{\bar{y}} H}{\sqrt{n-1}}\right)$$

where:

95% UCL	=	95% upper confidence limit
$\bar{y}$	=	mean of log-transformed data
$\sigma_{\bar{y}}$	=	standard deviation of the log-transformed data
H	=	H-statistic for the one-sided (upper) confidence limit
n	=	number of samples

In cases where the data set contains only a small number of samples (i.e., <5), or if there is a wide range in distribution, the calculated 95% UCL may exceed the maximum detected concentration of a constituent. In these cases, the maximum detected concentration is used as the representative exposure point concentration for risk assessment calculations. Where the data set is determined to be neither normal nor lognormal, it is assumed, for purposes of this risk assessment, to be lognormal.

To estimate concentrations of constituents in air resulting from the release from soil, partitioning equations from USEPA guidance were used (USEPA, 1996b). The concentration of constituents in dusts was determined using the Particulate Emission Factor algorithm (Table 3.2-3). Estimated vapor concentrations were calculated for volatile COIs only (as indicated in the RBC Table and designated with the notation "VOC") using the Volatilization Factor algorithm (Tables 3.2-4 and 3.2-5).

Exposure dose is defined as the amount of a constituent that a receptor contacts. The "Average Daily Dose" (ADD) or "Lifetime Average Daily Dose" (LADD) are the general parameters used to quantify exposure doses in site risk assessments. The ADD is used as a standard measure for

characterizing the potential for long-term non-carcinogenic effects. The LADD addresses exposures that may occur over varying durations averaged over a 70-year human lifetime and is used to estimate the potential for theoretical excess lifetime cancer risks.

The calculations of ADD and LADD incorporate a number of exposure parameters that are specific to individual receptors, constituents, and exposure pathways. The exposure parameters selected to evaluate the soil pathways for the industrial and construction workers are based on USEPA guidance (1989a, 1989b, 1991b, 1992a). Tables 3.2-6 and 3.2-7 present the default exposure factors for an industrial worker and construction worker, along with the dose equations for each soil pathway, which are used in the risk assessments. Dermal absorption factors, which are constituent-specific, are listed in Table 3.2-8.

The methodologies used in evaluating these scenarios are consistent with USEPA guidance on risk assessment in RCRA and Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) programs (USEPA, 1989a, 1989b, 1991a, 1992a). The specific details are described in the following sections. The results for each SWMU Group are discussed in Section 4.

Toxicity Assessment

Toxicity assessment is the process of characterizing the relationship between a dose of a constituent and the potential of an adverse health effect. The body of knowledge on dose-response relationships is based predominantly on data collected from studies of animals (usually rodents), studies of human occupational exposures, and theories about how humans respond to environmental doses of constituents.

For risk assessment purposes, potential effects are separated into two categories: theoretical excess lifetime cancer risks and non-cancer hazards. For potential carcinogens, the USEPA assumes that there is no level of exposure that does not have a finite possibility of causing cancer (i.e., there is no threshold dose for potential carcinogenic effects). For constituents exhibiting non-cancer hazards, it is believed that dose thresholds must be exceeded before an adverse effect is manifested.

Theoretical excess lifetime cancer risks resulting from human exposure to constituents are estimated quantitatively using cancer slope factors (CSFs) expressed in units of reciprocal milligrams of constituent intake per kilogram body weight per day $(mg/kg\text{-}day)^{-1}$. CSFs are

derived by the USEPA from the results of chronic animal bioassays or human epidemiological studies. Animal bioassays are usually conducted at dose levels that are much higher than those likely to be produced by human exposure to environmental media. Although the linkage to low-dose exposures may not be valid, such high levels are used in order to detect possible adverse effects in the relatively small test populations used in the studies.

Potential non-cancer hazards resulting from human exposure to constituents are generally estimated quantitatively using reference doses (RfDs). The RfD, expressed in units of mg/kg-day, is an estimate of the daily maximum level of exposure to human populations that is likely to be without an appreciable risk of deleterious effects during a designated time period of exposure (USEPA, 1989a). These are based on no-observed-adverse-effect levels in animals, with additional conservative factors to account for potential uncertainties in applying these values to sensitive human subpopulations. Chronic RfDs are used for exposure durations that are seven years or longer, while shorter exposure durations are assessed using subchronic RfDs. A chronic exposure duration is considered for the industrial worker scenario as the work duration is assumed to be 25 years. A subchronic exposure duration is considered for the construction worker scenario as the work duration is assumed to be 1 year.

CSFs and RfDs are integrated with the dose estimates to calculate theoretical excess lifetime cancer risks and non-cancer hazards in the Risk Characterization. For both types of toxicity criteria, data are available only for oral and inhalation exposures. In the absence of criteria specific to the dermal pathway, the oral values are used to evaluate the dermal route of exposure. Table 3.2-9 summarizes the toxicity criteria (chronic and subchronic RfDs and CSFs) for the constituents of interest identified at the Bayer New Martinsville facility. These criteria were obtained from the USEPA's Integrated Risk Information System (USEPA, 1999) database, the Health Effects Assessment Summary Tables (USEPA, 1997b), and provisional criteria for USEPA's National Center for Environmental Assessment.

Risk Characterization and Uncertainty

Risk characterization is the final step of the risk assessment process. It includes a description of the nature and magnitude of the potential for occurrence of adverse health effects under a specific set of conditions. In this step, the toxicity criteria and dose estimates from the Toxicity Assessment and Exposure Assessment are integrated into quantitative estimates of potential health risks.

Potential Carcinogenic Risks

Theoretical excess lifetime cancer risks associated with exposure to potentially carcinogenic constituents were calculated by comparing estimated intakes with the constituent-specific CSF. Theoretical excess lifetime cancer risks are calculated as follows:

$$Risk = \sum Risk_i = \sum (LADDxCSF_i)$$

where:

Risk	=	total theoretical excess lifetime cancer risk for a given exposure pathway
$Risk_i$	=	theoretical excess lifetime cancer risk for constituent i in that pathway
$LADD_i$	=	lifetime average daily dose for constituent i
CSF_i	=	cancer slope factor for constituent i

Non-Cancer Hazard Indices

Potential non-cancer hazards associated with exposure to constituents of interest were calculated by comparing estimated intakes with the constituent-specific RfD. The hazard indices for these constituents were calculated as follows:

$$HI = \sum HQ_i = \sum \frac{ADD_i}{RfD_i}$$

where:

HI	= hazard index for a given exposure pathway
HQ_i	= hazard quotient for constituent i in that pathway
ADD_i	= average daily dose for constituent i
RfD_i	= reference dose for constituent i

The purpose of calculating risks for the two worker scenarios is to determine if the potential risks associated with soil contact pathways are within acceptable levels [defined by USEPA (1991a) as theoretical excess lifetime cancer risks of between 10^{-4} to 10^{-6} and non-cancer hazard indices less than or equal to 1.0]. The premise behind this approach is that if the estimated risks to a worker are within acceptable limits, no further action is required to address potential soil contact exposures. Therefore, if the summed potential cancer risks and non-cancer hazard indices do not exceed 10^{-4} and 1.0, respectively, then the SWMU Group was recommended for No Further

Action. If the calculated values exceed these targets, the SWMU may be a candidate for remedial action. It should be noted that if summed non-cancer hazard indices exceed 1.0, a more refined assessment may be performed to segregate non-cancer hazards by constituent and target organ, as additivity is only technically defensible for constituents that affect the same target organ or system (USEPA, 1989a).

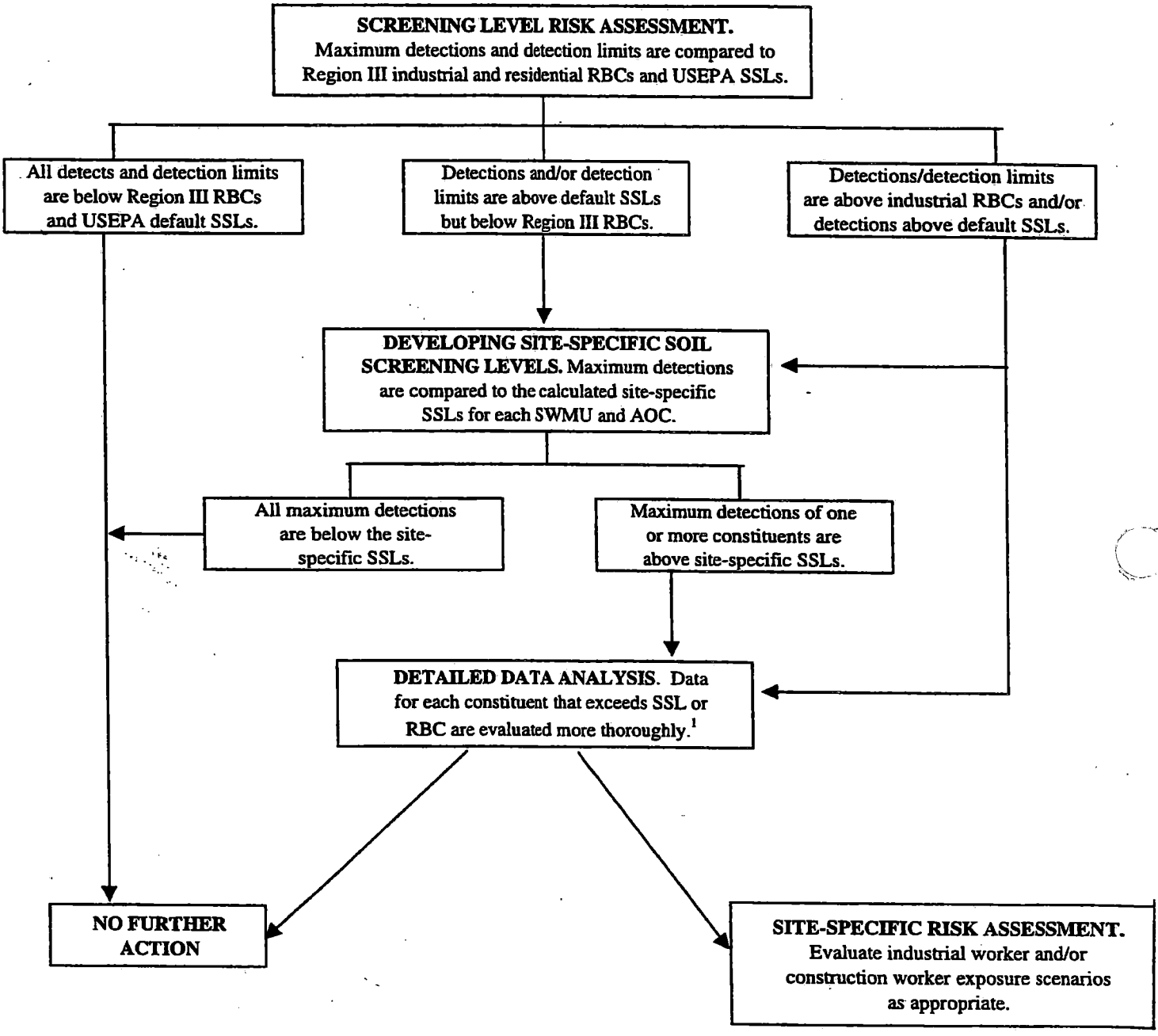
There is some uncertainty in not quantifying risks and hazards associated with constituents with unusually high detection limits that only exceeded screening criteria based on detection limits, and not actual detections. However, the conservatism of other risk assessment assumptions used in the site-specific risk assessment adequately compensates for this approach. Uncertainties identified for each SWMU Group are discussed further in Appendix F-1.

3.3 SCREENING-LEVEL EVALUATION OF GROUNDWATER

In order to provide a reference for current groundwater quality at the site, groundwater monitoring data was screened versus the Federal MCLs for drinking water, if available. If a MCL was not available for an individual constituent then the USEPA region III tap water RBC was used as the screening value for that constituent. This approach is believed to provide a simple assessment of the potential human health risks associated with groundwater at the site and is not considered as replacement for a full quantitative risk assessment.

The screening was performed using the complete set of 1998 quarterly groundwater monitoring data for the site. This data included on-site monitoring and recovery wells and off-site drinking water wells. For the purposes of evaluating risks to potential off-site receptors, the data for off-site receptors, the data for off-site wells was evaluated separately from the on-site wells.

FIGURE 3-1
DECISION FLOW CHART FOR THE HUMAN HEALTH RISK ASSESSMENT
SOIL PATHWAYS



[1] Qualitative evaluation of data considers factors such as frequency of exceedence, extent and distribution of detected constituents, averaging of detections, data quality issues, and completeness of exposure pathways.

TABLE 3.2-1

Screening Criteria for Constituents in Soil

Constituent	Region III Industrial Soil RBC[1]	Region III Residential Soil RBC[1]	Soil Screening Level 20 DAF[2]	Surrogate
	mg/kg			
MISCELLANEOUS				
Freon 113	6.1E+07	2.3E+06	--	
Freon 141b	4.1E+05	1.6E+04	--	
METALS				
Antimony	8.2E+02	3.1E+01	5.0E+00	
Cadmium	2.0E+03	7.8E+01	8.0E+00	
Chromium	6.1E+03	2.3E+02	3.8E+01	
Lead	8.0E+02	4.0E+02	--	
Nickel	4.1E+04	1.6E+03	1.3E+02	
PESTICIDES/HERBICIDES				
Heptachlor	1.3E+00	1.4E-01	2.3E+01	
SEMIVOLATILE ORGANIC COMPOUNDS				
1,2,3-Trichlorobenzene	2.0E+04	7.8E+02	5.0E+00	1,2,4-trichlorobenzene
1,2,4,5-Tetrachlorobenzene	6.1E+02	2.3E+01	--	
1,2,4-Trichlorobenzene	2.0E+04	7.8E+02	5.0E+00	
1,2-Dichlorobenzene	1.8E+05	7.0E+03	1.7E+01	
1,3-Dichlorobenzene	1.8E+03	7.0E+01	1.7E+01	1,2-dichlorobenzene (SSL)
1,4-Dichlorobenzene	2.4E+02	2.7E+01	2.0E+00	
1-Chloronaphthalene	1.6E+05	6.3E+03	--	2-chloronaphthalene
1-Methylnaphthalene	4.1E+04	1.6E+03	--	2-methylnaphthalene
1-Naphthylamine	--	--	--	
2,3,4,6-Tetrachlorophenol	6.1E+04	2.3E+03	--	
2,3-Dichloroaniline	--	--	--	
2,4,5-Trichlorophenol	2.0E+05	7.8E+03	2.7E+02	
2,4,6-Trichlorophenol	5.2E+02	5.8E+01	2.0E-01	
2,4-Dichlorophenol	6.1E+03	2.3E+02	1.0E+00	
2,4-Dimethylphenol	4.1E+04	1.6E+03	9.0E+00	
2,4-Dinitrophenol	4.1E+03	1.6E+02	3.0E-01	
2,4-Dinitrotoluene	4.1E+03	1.6E+02	8.0E-04	
2,4-Toluenediamine	1.8E+00	2.0E-01	--	
2,6-Dichlorophenol	6.1E+03	2.3E+02	1.0E+00	2,4-dichlorophenol
2,6-Dinitrotoluene	2.0E+03	7.8E+01	7.0E-04	
2-Chloronaphthalene	1.6E+05	6.3E+03	--	
2-Chlorophenol	1.0E+04	3.9E+02	4.0E+00	
2-Methylnaphthalene	4.1E+04	1.6E+03	--	
2-Methylpyridine	--	--	--	
2-Naphthylamine	--	--	--	
2-Nitroaniline	--	--	--	
2-Nitrodiphenylamine	--	--	--	
2-Nitrophenol	1.6E+04	6.3E+02	--	4-nitrophenol
2-Nitrotoluene	2.0E+04	7.8E+02	--	
3,3'-Dichlorobenzidine	1.3E+01	1.4E+00	7.0E-03	
3-Methylcholanthrene	--	--	--	
3-Nitroaniline	--	--	--	
3-Nitrotoluene	4.1E+04	1.6E+03	--	
4,4'-Methylenedianiline	--	--	--	
4,6-Dinitro-o-cresol	2.0E+02	7.8E+00	--	
4-Aminobiphenyl	--	--	--	
4-Aminodiphenylamine	--	--	--	
4-Nitroaniline	--	--	--	
4-Nitrophenol	1.6E+04	6.3E+02	--	
4-Nitrotoluene	2.0E+04	7.8E+02	--	
5-Nitro-o-toluidine	1.7E+02	1.9E+01	--	
7,12-Dimethylbenz(a)anthracene	--	--	--	
Acenaphthene	1.2E+05	4.7E+03	5.7E+02	
Acenaphthylene	8.2E+04	3.1E+03	5.6E+02	fluorene
Acetophenone	2.0E+05	7.8E+03	--	
Aniline	1.0E+03	1.1E+02	--	
Anthracene	6.1E+05	2.3E+04	1.2E+04	
Azobenzene	5.2E+01	5.8E+00	--	
Benzidine	2.5E-02	2.8E-03	--	
Benzo(a)anthracene	7.8E+00	8.7E-01	2.0E+00	
Benzo(a)pyrene	7.8E-01	8.7E-02	8.0E+00	
Benzo(b)fluoranthene	7.8E+00	8.8E-01	5.0E+00	
Benzo(g,h,i)perylene	6.1E+04	2.3E+03	4.2E+03	Pyrene

TABLE 3.2-1

Screening Criteria for Constituents in Soil

Constituent	Region III Industrial Soil RBC[1]	Region III Residential Soil RBC[1]	Soil Screening Level 20 DAF[2]	Surrogate
Benzo(k)fluoranthene	7.8E+01	8.7E+00	4.9E+01	
Benzoic Acid	8.2E+06	3.1E+05	4.0E+02	
Benzyl alcohol	6.1E+05	2.3E+04	--	
Benzyl Butyl Phthalate	4.1E+05	1.6E+04	9.3E+02	
bis(2-Chloroethyl)ether	5.2E+00	5.8E-01	4.0E-04	
Bis(2-chloroethyoxymethane)	--	--	--	
bis(2-Chloroisopropyl)ether	8.2E+01	9.1E+00	--	
bis(2-Ethylhexyl) phthalate	4.1E+02	4.6E+01	3.6E+03	
Bisphenol A	--	--	--	
Carbazole	2.9E+02	3.2E+01	6.0E-01	
Chrysene	7.8E+02	8.7E+01	1.6E+02	
Cyclohexanone	1.0E+07	3.9E+05	--	
Dibenz(a,h)anthracene	7.8E-01	8.7E-02	2.0E+00	
Dibenzofuran	8.2E+03	3.1E+02	--	
Diethyl phthalate	1.6E+06	6.3E+04	4.7E+02	
Dimethylphthalate	2.0E+07	7.8E+05	--	
Di-n-butyl phthalate	2.0E+05	7.8E+03	2.3E+03	
Di-n-octyl phthalate	4.1E+04	1.6E+03	1.0E+04	
Fluoranthene	8.2E+04	3.1E+03	4.3E+03	
Fluorene	8.2E+04	3.1E+03	5.6E+02	
Hexachlorobenzene	3.6E+00	4.0E-01	2.0E+00	
Hexachlorobutadiene	7.3E+01	8.2E+00	2.0E+00	
Hexachlorocyclopentadiene	1.4E+04	5.5E+02	4.0E+02	
Hexachloroethane	4.1E+02	4.6E+01	5.0E-01	
Indeno(1,2,3-cd)pyrene	7.8E+00	8.8E-01	1.4E+01	
Isophorone	6.0E+03	6.7E+02	5.0E-01	
m,p-cresol	1.0E+05	3.9E+03	1.5E+01	o-cresol
m-toludine	3.0E+01	3.4E+00	--	p-toludine
Naphthalene	4.1E+04	1.6E+03	8.4E+01	
Nitrobenzene	1.0E+03	3.9E+01	1.0E-01	
n-Nitroso-dibutylamine	1.1E+00	1.2E-01	--	
N-Nitrosodimethylamine	1.1E-01	1.3E-02	--	
n-Nitroso-di-n-propylamine	8.2E-01	9.1E-02	5.0E-05	
n-Nitrosodiphenylamine	1.2E+03	1.3E+02	1.0E+00	
N-Nitrosopiperidine	--	--	--	
o.p-toludine	3.0E+01	3.4E+00	--	
o-Cresol	1.0E+05	3.9E+03	1.5E+01	
p-Acetophenetidide	--	--	--	
p-Chloroaniline	8.2E+03	3.1E+02	7.0E-01	
p-Chloro-m-cresol	--	--	--	
p-Dimethylaminoazobenzene	--	--	--	
Pentachlorobenzene	1.6E+03	6.3E+01	--	
Pentachloronitrobenzene	2.2E+01	2.5E+00	--	
Pentachlorophenol	4.8E+01	5.3E+00	3.0E-02	
Phenanthrene	8.2E+04	3.1E+03	4.3E+03	fluoranthene
Phenol	1.2E+06	4.7E+04	1.0E+02	
Pyrene	6.1E+04	2.3E+03	4.2E+03	
Pyridine	2.0E+03	7.8E+01	--	
Trimethylphosphate	1.5E+02	1.7E+01	--	
Triphenylphosphate	--	--	--	
VOLATILE ORGANIC COMPOUNDS				
1,1,1,2-Tetrachloroethane	2.2E+02	2.5E+01	3.0E-03	1,1,2,2-tetrachloroethane (SSL)
1,1,1-Trichloroethane	4.1E+04	1.6E+03	2.0E+00	
1,1,2,2-Tetrachloroethane	2.9E+01	3.2E+00	3.0E-03	
1,1,2-Trichloroethane	1.0E+02	1.1E+01	2.0E-02	
1,1-Dichloroethane	2.0E+05	7.8E+03	2.3E+01	
1,1-Dichloroethene	9.5E+00	1.1E+00	6.0E-02	
1,1-Dichloropropene	3.2E+01	3.5E+00	4.0E-03	1,3-dichloropropene (SSL)
1,2,3-Trichloropropane	8.2E-01	9.1E-02	--	
1,2,4-Trimethylbenzene	1.0E+05	3.9E+03	--	
1,2-Dibromo-3-chloropropane	4.1E+00	4.6E-01	--	
1,2-Dibromoethane	6.7E-02	7.5E-03	--	
1,2-Dichloroethane	6.3E+01	7.0E+00	2.0E-02	
1,2-Dichloropropane	8.4E+01	9.4E+00	3.0E-02	
1,3,5-Trimethylbenzene	1.0E+05	3.9E+03	--	
1,3-Dichloropropane	8.4E+01	9.4E+00	3.0E-02	1,2-dichloropropane
2,2-Dichloropropane	8.4E+01	9.4E+00	3.0E-02	1,2-dichloropropane
2-Butanone (MEK)	1.2E+06	4.7E+04	--	

TABLE 3.2-1

Screening Criteria for Constituents in Soil

Constituent	Region III Industrial Soil RBC[1]	Region III Residential Soil RBC[1]	Soil Screening Level 20 DAF[2]	Surrogate
2-Chloroethyl vinyl ether	--	--	--	
2-Chlorotoluene	4.1E+04	1.6E+03	--	
2-Hexanone	8.2E+04	3.1E+03	--	
3-Chloropropene	--	--	--	
4-Bromophenyl phenylether	--	--	--	
4-Chlorophenyl phenylether	--	--	--	
4-Methyl-2-pentanone (MIBK)	1.6E+05	6.3E+03	--	
Acetone	2.0E+05	7.8E+03	1.6E+01	
Acraldehyde	4.1E+04	1.6E+03	--	
Acrylonitrile	1.1E+01	1.2E+00	--	
Benzene	2.0E+02	2.2E+01	3.0E-02	
Bromobenzene	--	--	--	
Bromodichloromethane	9.2E+01	1.0E+01	6.0E-01	
Bromomethane	2.9E+03	1.1E+02	2.0E-01	
Carbon disulfide	2.0E+05	7.8E+03	3.2E+01	
Carbon tetrachloride	4.4E+01	4.9E+00	7.0E-02	
Chlorobenzene	4.1E+04	1.6E+03	1.0E+00	
Chlorobromomethane	--	--	--	
Chloroethane	2.0E+03	2.2E+02	--	
Chloromethane	4.4E+02	4.9E+01	--	
cis-1,2-Dichloroethene	2.0E+04	7.8E+02	4.0E-01	
cis-1,3-Dichloro-1-propene	3.2E+01	3.5E+00	4.0E-03	dichloropropene
Dibromochloromethane	6.8E+01	7.6E+00	4.0E-01	
Dibromomethane	2.0E+04	7.8E+02	--	
Dichlorodifluoromethane	4.1E+05	1.6E+04	--	
Diphenylamine	5.1E+04	2.0E+03	--	
Ethylbenzene	2.0E+05	7.8E+03	1.3E+01	
Iodomethane	--	--	--	
Isopropylbenzene	2.0E+05	7.8E+03	--	
Methylene chloride	7.6E+02	8.5E+01	2.0E-02	
m,p-xylene	4.1E+06	1.6E+05	2.0E+02	
n-Butylbenzene	2.0E+04	7.8E+02	--	
n-Propylbenzene	2.0E+04	7.8E+02	--	
o-Xylene	4.1E+06	1.6E+05	1.9E+02	
p-Chlorotoluene	4.1E+04	1.6E+03	--	o-chlorotoluene
p-Cymene	--	--	--	
sec-Butylbenzene	2.0E+04	7.8E+02	--	
Styrene	4.1E+05	1.6E+04	4.0E+00	
tert-Butylbenzene	2.0E+04	7.8E+02	--	
Tetrachloroethene	1.1E+02	1.2E+01	6.0E-02	
Toluene	4.1E+05	1.6E+04	1.2E+01	
trans-1,2-Dichloroethene	4.1E+04	1.6E+03	7.0E-01	
trans-1,3-Dichloropropene	3.2E+01	3.5E+00	4.0E-03	dichloropropene
trans-1,4-Dichloro-2-butene	--	--	--	
Tribromomethane	7.2E+02	8.1E+01	8.0E-01	
Trichloroethene	5.2E+02	5.8E+01	6.0E-02	
Trichlorofluoromethane	6.1E+05	2.3E+04	--	
Trichloromethane	9.4E+02	1.0E+02	6.0E-01	
Vinyl acetate	2.0E+06	7.8E+04	1.7E+02	
Vinyl Chloride	3.0E+00	3.4E-01	1.0E-02	

[1] Industrial and Residential RBCs for Soil (USEPA, 1999)

[2] USEPA Site-specific Soil Screening Levels (SSLs) (USEPA, 1996)

Note: RBC for Cadmium in food

RBC for hexavalent Chromium

Constituents with no identified Industrial RBC, Residential RBC, or SSL are identified with "--"

TABLE 3.2-2

SITE-SPECIFIC LEACHING SOIL SCREENING LEVELS

INORGANICS	SWMU Group A	SWMU Group B	SWMU Group C	SWMU Group D	SWMU 13	SWMU 14	SWMU 17
Antimony	8.7E+01	NA	NA	5.6E+01	NA	NA	NA
Cadmium	3.6E+02	8.9E+01	1.0E+03	2.9E+02	NA	NA	NA
Chromium	2.9E+02	NA	8.4E+02	3.3E+02	NA	NA	NA
Nickel	4.5E+03	1.7E+03	8.1E+03	3.7E+03	4.5E+03	NA	NA
ORGANICS							
1,1,1-Trichloroethane	NA	NA	NA	4.8E+01	NA	NA	NA
1,1,2,2-Tetrachloroethane	NA	NA	1.1E-02	1.1E-02	6.1E-03	4.6E-02	4.6E-02
1,1,2-Trichloroethane	NA	NA	4.3E+01	4.3E-01	2.3E-01	1.8E+00	1.8E+00
1,1-Dichloroethene	NA	NA	1.1E+00	7.0E-01	6.0E-01	4.5E+00	4.5E+00
1,2,3-Trichlorobenzene	NA	NA	NA	2.1E+02	NA	8.7E+02	NA
1,2,4-Trichlorobenzene	1.2E+02	NA	NA	2.1E+02	NA	8.7E+02	NA
1,2-Dichlorobenzene	3.6E+02	6.2E+02	1.0E+03	4.1E+02	NA	2.7E+03	NA
1,2-Dichloroethane	NA	NA	4.4E-01	6.6E-01	2.4E-01	1.8E+00	1.8E+00
1,2-Dichloropropane	NA	NA	6.6E-01	6.6E-01	3.6E-01	2.7E+00	2.7E+00
1,4-Dichlorobenzene	8.1E+01	7.8E+02	1.3E+02	5.2E+01	4.4E+01	3.3E+02	NA
2,4,6-Trichlorophenol	NA	NA	4.2E+00	4.2E+00	2.3E+00	1.7E+01	1.7E+01
2,4-Dichlorophenol	NA	NA	3.3E+01	3.3E+01	1.8E+01	1.4E+02	1.4E+02
2,4-Dimethylphenol	NA	NA	NA	2.9E+02	NA	1.2E+03	NA
2,4-Dinitrophenol	NA	NA	1.6E-01	1.6E+01	9.0E+00	6.8E+01	6.8E+01
2,4-Dinitrotoluene	8.8E+00	1.5E+01	1.6E+01	1.0E+01	8.7E+00	6.5E+01	6.5E+01
2,6-Dinitrotoluene	6.4E+00	6.2E+00	6.4E+00	4.1E+00	3.5E+00	2.7E+01	2.7E+01
2-Chlorophenol	NA	NA	NA	1.3E+02	NA	5.2E+02	NA
3,3'-Dichlorobenzidine	NA	NA	1.9E-01	1.9E-01	1.0E-01	7.8E-01	7.8E-01
Benzene	4.4E-01	7.5E-01	7.8E-01	5.0E-01	4.3E-01	3.2E+00	3.2E+00
Benzo(a)anthracene	3.4E+01	NA	6.0E+01	6.0E+01	3.3E+01	2.5E+02	NA
Benzo(a)pyrene	1.9E+02	3.2E+02	5.4E+02	3.4E+03	NA	1.4E+04	NA
Benzo(b)fluoranthene	1.0E+02	2.7E+02	3.0E+02	1.9E+02	1.0E+02	7.7E+02	NA
bis(2-Chloroethyl)ether	7.8E-04	7.5E-04	7.8E-04	5.0E-04	4.3E-04	3.2E-03	3.2E-03
Bromodichloromethane	NA	NA	NA	1.2E+01	NA	NA	NA
Bromoform	NA	NA	NA	1.6E+01	NA	NA	NA
Bromomethane	NA	NA	6.7E-01	6.7E-01	3.7E-01	2.8E+00	2.8E+00
Carbazole	NA	NA	1.9E+01	1.9E+01	1.1E+01	7.9E+01	7.9E+01
Carbon Tetrachloride	NA	2.5E+00	1.7E+00	1.1E+00	9.5E-01	7.2E+00	7.2E+00
Chlorobenzene	9.1E+00	1.6E+01	1.6E+01	1.0E+01	9.0E+00	6.8E+01	NA
Chloroform	NA	NA	NA	1.0E+01	NA	NA	NA
cis-1,2-Dichloroethene	NA	1.2E+01	NA	8.2E+00	4.5E+00	NA	NA
cis-1,3-Dichloropropene	NA	NA	1.0E-02	1.0E-02	5.7E-03	4.3E-02	4.3E-02
Dibenzo(a,h)anthracene	NA	NA	5.7E+01	5.7E+01	3.2E+01	2.4E+02	NA
Dibromochloromethane	NA	NA	NA	2.1E-02	NA	NA	NA
Hexachlorobenzene	NA	NA	9.0E+01	9.0E+01	5.0E+01	3.8E+02	NA
Hexachlorobutadiene	NA	NA	NA	8.8E+01	4.9E+01	3.7E+02	NA
Hexachloroethane	NA	NA	2.2E+00	2.2E+00	1.2E+00	9.3E+00	9.3E+00
Indeno(1,2,3-cd)pyrene	NA	NA	NA	5.2E+02	NA	NA	NA
Isophorone	NA	NA	9.7E+00	9.7E+00	5.3E+00	4.0E+01	4.0E+01
m,p-Cresol	2.1E+02	3.6E+02	NA	NA	NA	NA	NA
Methylene Chloride	2.2E-01	NA	3.9E-01	3.9E-01	2.2E-01	1.6E+00	1.6E+00
m-Toludine	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	5.6E-01	5.4E-01	5.6E-01	3.6E-01	3.1E-01	2.3E+00	2.3E+00
N-Nitrosodimethylamine	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	3.1E+01	4.4E+01	3.1E+01	3.1E+01	1.7E+01	1.3E+02	1.3E+02
N-Nitrosodipropylamine	NA	NA	9.5E-04	9.5E-04	5.2E-04	3.9E-03	3.9E-03
o-Cresol	NA	NA	NA	3.8E+02	NA	NA	NA
p-Chloroaniline	1.4E+01	2.4E+01	2.5E+01	1.6E+01	1.4E+01	1.0E+02	1.0E+02
p-Cymene	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	NA	NA	1.0E+00	1.0E+00	5.7E-01	4.3E+00	4.3E+00
Phenol	2.3E+03	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	1.3E+02	NA	NA	NA
Tetrachloroethene	NA	2.2E+00	1.6E+00	1.0E+00	8.7E-01	6.5E+00	6.5E+00
Toluene	3.6E+02	NA	5.8E+02	2.3E+02	2.0E+02	NA	NA
trans-1,2-Dichloroethene	NA	NA	NA	1.5E+01	NA	NA	NA
trans-1,3-Dichloropropene	NA	NA	1.0E-02	1.0E-02	5.7E-03	4.3E-02	4.3E-02
Trichloroethene	1.7E+00	1.6E+00	1.7E+00	1.7E+00	NA	6.9E+00	6.9E+00
Trichlorofluoromethane	NA	NA	NA	2.7E+02	NA	NA	NA
Vinyl Chloride	NA	NA	1.8E-01	1.8E-01	9.9E-02	7.5E-01	7.5E-01

Notes: 1) The SSL for each Group was conservatively assumed to be the lowest site-specific SSL of the individual SWMUs in the grouping (as calculated in Phase II)
2) See Appendix F-2 for methodology
3) Units = mg/kg
4) NA = Not Applicable

TABLE 3.2-2

SITE-SPECIFIC LEACHING SOIL SCREENING LEVELS

INORGANICS	SWMU 18	SWMU 19	SWMU 20	SWMU 21	SWMU 22	SWMU 23	SWMU 24
Antimony	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	5.2E+02	NA	NA	NA	NA
Nickel	NA	3.3E+04	NA	NA	NA	NA	NA
ORGANICS							
1,1,1-Trichloroethane	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	NA	4.6E-02	1.1E-02	NA	1.1E-02	4.6E-02	1.1E-02
1,1,2-Trichloroethane	NA	1.8E+00	4.3E-01	NA	4.3E-01	1.8E+00	4.3E-01
1,1-Dichloroethene	NA	4.5E+00	1.1E+00	NA	1.1E+00	4.5E+00	1.1E+00
1,2,3-Trichlorobenzene	NA	NA	2.1E+02	NA	NA	NA	NA
1,2,4-Trichlorobenzene	NA	NA	2.1E+02	NA	NA	NA	NA
1,2-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	NA	1.8E+00	4.4E-01	NA	4.4E-01	1.8E+00	4.4E-01
1,2-Dichloropropane	NA	2.7E+00	6.6E-01	NA	6.6E-01	2.7E+00	6.6E-01
1,4-Dichlorobenzene	NA	3.3E+02	8.1E+01	NA	NA	3.3E+02	8.1E+01
2,4,6-Trichlorophenol	NA	1.7E+01	4.2E+00	NA	4.2E+00	1.7E+01	4.2E+00
2,4-Dichlorophenol	NA	1.4E+02	3.3E+01	NA	NA	1.4E+02	3.3E+01
2,4-Dimethylphenol	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	NA	6.8E+01	1.6E+01	NA	1.6E+01	6.8E+01	1.6E+01
2,4-Dinitrotoluene	NA	6.5E+01	1.6E+01	1.6E+01	1.6E+01	6.5E+01	1.6E+01
2,6-Dinitrotoluene	NA	2.7E+01	6.4E+00	6.4E+00	NA	2.7E+01	6.4E+00
2-Chlorophenol	NA	NA	1.3E+02	NA	NA	NA	NA
3,3'-Dichlorobenzidine	NA	7.8E-01	1.9E-01	NA	1.9E-01	7.8E-01	1.9E-01
Benzene	3.2E+00	3.2E+00	7.8E-01	7.8E-01	7.8E-01	3.2E+00	7.8E-01
Benzo(a)anthracene	2.5E+02	2.5E+02	6.0E+01	NA	NA	2.5E+02	6.0E+01
Benzo(a)pyrene	NA	1.4E+04	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	7.7E+02	7.7E+02	1.9E+02	NA	NA	NA	NA
bis(2-Chloroethyl)ether	NA	3.2E-03	7.8E-04	NA	7.8E-04	3.2E-03	7.8E-04
Bromodichloromethane	NA	NA	NA	NA	NA	NA	NA
Bromoform	NA	NA	NA	NA	NA	NA	NA
Bromomethane	NA	2.8E+00	6.7E-01	NA	6.7E-01	2.8E+00	6.7E-01
Carbazole	NA	7.9E+01	1.9E+01	NA	1.9E+01	7.9E+01	1.9E+01
Carbon Tetrachloride	NA	7.2E+00	1.7E+00	NA	1.7E+00	7.2E+00	1.7E+00
Chlorobenzene	NA	6.8E+01	NA	NA	NA	NA	1.6E+01
Chloroform	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	NA	NA	8.2E+00	NA	NA	NA	NA
cis-1,3-Dichloropropene	NA	4.3E-02	1.0E-02	NA	1.0E-02	4.3E-02	1.0E-02
Dibenzo(a,h)anthracene	NA	2.4E+02	5.7E+01	NA	NA	2.4E+02	5.7E+01
Dibromochloromethane	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	NA	3.8E+02	9.0E+01	NA	NA	3.8E+02	9.0E+01
Hexachlorobutadiene	NA	3.7E+02	8.8E+01	NA	NA	3.7E+02	8.8E+01
Hexachloroethane	NA	9.3E+00	2.2E+00	NA	NA	NA	2.2E+00
Indeno(1,2,3-cd)pyrene	NA	NA	NA	NA	NA	NA	NA
Isophorone	NA	4.0E+01	9.7E+00	NA	NA	4.0E+01	9.7E+00
m,p-Cresol	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	NA	1.6E+00	3.9E-01	NA	3.9E-01	1.6E+00	3.9E-01
m-Toludine	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	NA	2.3E+00	5.6E-01	5.6E-01	5.6E-01	2.3E+00	5.6E-01
N-Nitrosodimethylamine	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	NA	1.3E+02	3.1E+01	NA	NA	1.3E+02	3.1E+01
N-Nitrosodipropylamine	NA	3.9E-03	9.5E-04	NA	9.5E-04	3.9E-03	9.5E-04
o-Cresol	NA	NA	NA	NA	NA	NA	NA
p-Chloroaniline	NA	1.0E+02	2.5E+01	2.5E+01	2.5E+01	1.0E+02	2.5E+01
p-Cymene	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	NA	4.3E+00	1.0E+00	NA	1.0E+00	4.3E+00	1.0E+00
Phenol	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	NA	6.5E+00	1.6E+00	NA	1.6E+00	6.5E+00	1.6E+00
Toluene	NA	NA	3.6E+02	3.6E+02	NA	NA	NA
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	NA	4.3E-02	1.0E-02	NA	1.0E-02	4.3E-02	1.0E-02
Trichloroethene	NA	6.9E+00	1.7E+00	NA	1.7E+00	6.9E+00	1.7E+00
Trichlorofluoromethane	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	NA	7.5E-01	1.8E-01	NA	1.8E-01	7.5E-01	1.8E-01

Notes: 1) The SSL for each Group was conservatively assumed to be the lowest site-specific SSL of the individual SWMUs in the grouping (as calculated in Phase II)
2) See Appendix F-2 for methodology
3) Units = mg/kg
4) NA = Not Applicable

TABLE 3.2-2

SITE-SPECIFIC LEACHING SOIL SCREENING LEVELS

INORGANICS	SWMU 25	SWMU 26	SWMU 27	SWMU 28	SWMU 29	SWMU 30
Antimony	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA
Chromium	2.2E+03	NA	5.2E+02	NA	NA	NA
Nickel	NA	NA	NA	NA	NA	NA
ORGANICS						
1,1,1-Trichloroethane	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	4.6E-02	1.1E-02	NA	4.6E-02	4.6E-02	1.1E-02
1,1,2-Trichloroethane	1.8E+00	4.3E-01	NA	1.8E+00	1.8E+00	4.3E-01
1,1-Dichloroethene	4.5E+00	1.1E+00	NA	4.5E+00	4.5E+00	1.1E+00
1,2,3-Trichlorobenzene	NA	NA	NA	8.7E+02	NA	NA
1,2,4-Trichlorobenzene	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	1.8E+00	4.4E-01	NA	1.8E+00	1.8E+00	4.4E-01
1,2-Dichloropropane	2.7E+00	6.6E-01	NA	2.7E+00	2.7E+00	6.6E-01
1,4-Dichlorobenzene	3.3E+02	NA	NA	3.3E+02	NA	NA
2,4,6-Trichlorophenol	1.7E+01	4.2E+00	NA	1.7E+01	1.7E+01	4.2E+00
2,4-Dichlorophenol	1.4E+02	NA	NA	1.4E+02	NA	NA
2,4-Dimethylphenol	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	6.8E+01	1.6E+01	NA	6.8E+01	6.8E+01	1.6E+01
2,4-Dinitrotoluene	6.5E+01	1.6E+01	1.6E+01	6.5E+01	6.5E+01	1.6E+01
2,6-Dinitrotoluene	2.7E+01	6.4E+00	6.4E+00	2.7E+01	2.7E+01	6.4E+00
2-Chlorophenol	NA	NA	NA	5.2E+02	NA	NA
3,3'-Dichlorobenzidine	7.8E-01	1.9E-01	NA	7.8E-01	7.8E-01	1.9E-01
Benzene	3.2E+00	7.8E-01	7.8E-01	3.2E+00	3.2E+00	7.8E-01
Benzo(a)anthracene	2.5E+02	NA	NA	2.5E+02	NA	NA
Benzo(a)pyrene	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	3.2E-03	7.8E-04	7.8E-04	3.2E-03	3.2E-03	7.8E-04
Bromodichloromethane	NA	NA	NA	NA	NA	NA
Bromoform	NA	NA	NA	NA	NA	NA
Bromomethane	2.8E+00	6.7E-01	NA	2.8E+00	2.8E+00	6.7E-01
Carbazole	7.9E+01	1.9E+01	NA	7.9E+01	7.9E+01	NA
Carbon Tetrachloride	7.2E+00	1.7E+00	NA	7.2E+00	7.2E+00	1.7E+00
Chlorobenzene	6.8E+01	NA	NA	NA	NA	NA
Chloroform	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	4.3E-02	1.0E-02	NA	4.3E-02	4.3E-02	1.0E-02
Dibenzo(a,h)anthracene	2.4E+02	NA	NA	2.4E+02	NA	NA
Dibromochloromethane	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	3.8E+02	NA	NA	3.8E+02	NA	NA
Hexachlorobutadiene	3.7E+02	NA	NA	3.7E+02	NA	NA
Hexachloroethane	9.3E+00	NA	NA	9.3E+00	NA	NA
Indeno(1,2,3-cd)pyrene	NA	NA	NA	NA	NA	NA
Isophorone	4.0E+01	NA	NA	4.0E+01	NA	NA
m,p-Cresol	NA	NA	NA	NA	NA	NA
Methylene Chloride	1.6E+00	3.9E-01	3.9E-01	1.6E+00	1.6E+00	3.9E-01
m-Toludine	NA	NA	NA	NA	NA	NA
Nitrobenzene	2.3E+00	5.6E-01	5.6E-01	2.3E+00	2.3E+00	5.6E-01
N-Nitrosodimethylamine	NA	NA	NA	NA	NA	8.3E-01
N-Nitrosodiphenylamine	1.3E+02	NA	NA	1.3E+02	NA	NA
N-Nitrosodipropylamine	3.9E-03	9.5E-04	NA	3.9E-03	3.9E-03	9.5E-04
o-Cresol	NA	NA	NA	NA	NA	NA
p-Chloroaniline	1.0E+02	NA	NA	1.0E+02	NA	NA
p-Cymene	NA	NA	NA	NA	NA	NA
Pentachlorophenol	4.3E+00	1.0E+00	NA	4.3E+00	4.3E+00	1.0E+00
Phenol	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA	NA
Tetrachloroethene	6.5E+00	1.6E+00	NA	6.5E+00	6.5E+00	1.6E+00
Toluene	NA	NA	3.6E+02	NA	NA	NA
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	4.3E-02	1.0E-02	NA	4.3E-02	4.3E-02	1.0E-02
Trichloroethene	6.9E+00	1.7E+00	1.7E+00	6.9E+00	6.9E+00	1.7E+00
Trichlorofluoromethane	NA	NA	NA	NA	NA	NA
Vinyl Chloride	7.5E-01	1.8E-01	NA	7.5E-01	7.5E-01	1.8E-01

Notes: 1) The SSL for each Group was conservatively assumed to be the lowest site-specific SSL of the individual SWMUs in the grouping (as calculated in Phase II)
2) See Appendix F-2 for methodology
3) Units = mg/kg
4) NA = Not Applicable

TABLE 3.2-3

CALCULATION OF THE PARTICULATE EMISSION FACTOR (PEF)

Equation:

$$PEF\ \frac{m^3}{kg} = Q/C\ x\ \frac{3600\ s/hr}{0.036\ x\ (1-V)\ x\ (U_m/U_t)^3\ x\ F(x)}$$

Factor	Symbol	Value	Source / Comments
Inverse of the mean concentration at the center of the source area (g/m^2-s per kg/m^3)	Q/C	90.8	USEPA (1996b) Soil Screening Guidance - default value
Fraction of vegetative cover (unitless)	V	0	Conservatively assumed that there would be no vegetative cover.
Mean annual wind speed (m/s)	U_m	4.69	USEPA (1996b) Soil Screening Guidance - default value
Equivalent threshold value of windspeed at 7 m (m/s)	U_t	11.32	USEPA (1996b) Soil Screening Guidance - default value
Function dependent on U_m/U_t derived using Cowherd (1985) (unitless)	F(x)	0.194	USEPA (1996b) Soil Screening Guidance - default value

Final PEF value = $6.6\ x\ 10^8\ m^3/kg$

TABLE 3.2-4

CALCULATION OF CONSTITUENT-SPECIFIC VOLATILIZATION FACTORS

Equation:

$$VF\,(m^3/kg) = Q/C \times \frac{(3.14 \times Da \times T)^{1/2}}{(2 \times Pb \times Da)} \times 10^{-4}\ (m^2/cm^2)$$

where:

$$Da\,(cm^2/s) = \frac{(Ea^{10/3} \times D'iH + Ew^{10/3}\,Dw)\ /\ n^2}{PbKd + Ew + E'aH}$$

Parameter	Symbol	Value	Units	Source
dispersion factor	Q/C	68.81	$\frac{(g/m^2\text{-}s)}{(kg/m^3)}$	USEPA (1996b) default
air-filled soil porosity	Ea	0	L_{air}/L_{soil}	n – Ew (set to 0 if VOCs may have been lost during sample collection)
total soil porosity	n	0.4	L_{pore}/L_{soil}	1 - (Pb/Ps) (site-specific)
water-filled soil porosity	Ew	0.3	L_{water}/L_{soil}	site-specific
dry soil bulk density	Pb	1.63	g/cm^3	site-specific
soil particle density	Ps	2.65	g/cm^3	USEPA (1996b) default
diffusivity in air	Di	--	cm^2/sec	chemical-specific [1]
Henry's Law Constant	H'	--	unitless	chemical-specific [1]
diffusivity in water	Dw	--	cm^2/sec	chemical-specific [1]
soil-water partition coefficient	Kd	--	cm^3/g	Koc x foc
soil-organic carbon partition coefficient	Koc	--	cm^3/g	chemical-specific [1]
exposure interval	T	9.5×10^8	sec	USEPA (1996b) default
fraction organic carbon	foc	0.0051	g/g	site-specific

[1] Chemical-specific data can be found on Table 3.2-5

TABLE 3.2-5

CONSTITUENT-SPECIFIC VALUES USED IN THE VOLATILIZATION FACTOR CALCULATIONS

Constituent	Associated SWMU Group	H' (unitless)	Di (cm^2/sec)	Dw (cm^2/sec)	Koc (cm^3/g)	VF (m^3/kg)
Benzene	D	0.228	0.088	9.8E-6	58.9	97,191

Source for all values: Appendix I, USEPA (1996b) Soil Screening Guidance.
Note: Only VOCs presented.

TABLE 3.2-6

STANDARD EXPOSURE FACTORS AND DOSE EQUATIONS FOR AN INDUSTRIAL WORKER

Pathway	Exposure Factor	Symbol	Value	Reference
All Pathways	Constituent Concentration in Soil (mg/kg) or Air (mg/m^3)	CS, CA	Constituent-Specific	
	Conversion Factor	CF	1 x 10^{-6} kg/mg	--
	Exposure Frequency	EF	250 days/yr	USEPA, 1991a
	Exposure Duration	ED	25 yr	USEPA, 1989a
	Body Weight	BW	70 kg	USEPA, 1989a
	Fraction of Impacted Soil Contacted	FC	1.0 or best professional judgement	USEPA, 1989a
	Averaging Time	AT	ED x 365 days (NC) 25,550 days (C)	USEPA, 1989a
Incidental Ingestion of Soil	Soil Ingestion Rate	IR_S	50 mg/day	USEPA, 1991a
	Gastrointestinal Bioavailability Factor (unitless)	BF_o	1.0 for all constituents	USEPA, 1992
Dermal Contact with Soil	Skin Surface Area	SA	2,000 cm^2 (Head and hands)	USEPA, 1997
	Soil Adherence Factor	SAF	1.0 mg/cm^2	USEPA, 1992
	Dermal Absorption Factor	DAF	Constituent-specific (see Table 3.2-8)	USEPA Region III, 1995b
Inhalation of Particulates or Volatiles	Inhalation Rate	IR_A	2.5 m^3/hr	USEPA, 1991a
	Exposure Time	ET	8 hr/day	USEPA, 1991a

Dose Calculation for Incidental Ingestion of Soil:

$$ADD / LADD = \frac{CS \times IR_S \times CF \times BF_o \times EF \times ED \times FC}{BW \times AT}$$

Dose Calculation for Dermal Contact with Soil:

$$ADD / LADD = \frac{CS \times CF \times SA \times SAF \times DAF \times EF \times ED \times FC}{BW \times AT}$$

Dose Calculation for Inhalation of Particulates or Volatiles:

$$ADD / LADD = \frac{CA \times IR_A \times ET \times EF \times ED \times FC}{BW \times AT}$$

(NC) = Noncarcinogenic averaging time
(C) = Carcinogenic averaging time

TABLE 3.2-7

STANDARD EXPOSURE FACTORS AND DOSE EQUATIONS FOR A CONSTRUCTION WORKER

Pathway	Exposure Factor	Symbol	Value	Reference
All Pathways	Constituent Concentration in Soil (mg/kg) or Air (mg/m^3)	CS, CA	Constituent-Specific	
	Conversion Factor	CF	1 x 10^{-6} kg/mg	--
	Exposure Frequency	EF	130 days/yr	Assumes a 6-month project.
	Exposure Duration	ED	1 yr	Assumes a one-time project.
	Body Weight	BW	70 kg	USEPA, 1989a
	Fraction of Impacted Soil Contacted	FC	1.0 or best professional judgement	USEPA, 1989a
	Averaging Time	AT	ED x 365 days (NC) 25,550 days (C)	USEPA, 1989a
Incidental Ingestion of Soil	Soil Ingestion Rate	IR_S	480 mg/day	USEPA, 1991a
	Gastrointestinal Bioavailability Factor (unitless)	BF_o	1.0 for all constituents	USEPA, 1992
Dermal Contact with Soil	Skin Surface Area	SA	2,000 cm^2 (Head and hands)	USEPA, 1997
	Soil Adherence Factor	SAF	1.0 mg/cm^2	USEPA, 1992
	Dermal Absorption Factor	DAF	Constituent-specific (see Table 3.2-8)	USEPA Region III, 1995b
Inhalation of Particulates or Volatiles	Inhalation Rate	IR_A	2.5 m^3/hr	USEPA, 1991a
	Exposure Time	ET	8 hr/day	USEPA, 1991a

Dose Calculation for Incidental Ingestion of Soil:

$$ADD / LADD = \frac{CS \times IR_S \times CF \times BF_o \times EF \times ED \times FC}{BW \times AT}$$

Dose Calculation for Dermal Contact with Soil:

$$ADD / LADD = \frac{CS \times CF \times SA \times SAF \times DAF \times EF \times ED \times FC}{BW \times AT}$$

Dose Calculation for Inhalation of Particulates or Volatiles:

$$ADD / LADD = \frac{CA \times IR_A \times ET \times EF \times ED \times FC}{BW \times AT}$$

(NC) = Noncarcinogenic averaging time
(C) = Carcinogenic averaging time

TABLE 3.2-8

DERMAL ABSORPTION FACTORS FOR CONSTITUENTS OF INTEREST

Constituent	Dermal Absorption Factor (unitless)
2,4-Toluenediamine	0.10
m-Toluidine	0.10
o,p- and m-Toluidine	0.10
Benzene	0.03
Aniline	0.10

Source: USEPA Region III (1995)

TOXICITY CRITERIA FOR CONSTITUENTS OF INTEREST IN SOIL

Constituent	Associated SWMU Group	Oral CSF [CSFo] $(mg/kg\text{-}day)^{-1}$	Inhalation CSF [CSFi] $(mg/kg\text{-}day)^{-1}$	USEPA Weight-of-Evidence Classification	Chronic Oral RfD [RfDo] (mg/kg-day)	Subchronic Oral RfD [RfDo] (mg/kg-day)	Chronic Inhalation RfD [RfDi] (mg/kg-day)	Subchronic Inhalation RfD [RfDi] (mg/kg-day)
2,4-Toluenediamine	A,B,C,D	3.2 (H)	3.2 (H,*)	NA	NA	NA	NA	NA
m-Toluidine **	D	0.19 (H)	NA	NA	NA	NA	NA	NA
o,p-Toluidine **	D	0.19 (H)	NA	NA	NA	NA	NA	NA
Benzene	D	0.029 (I)	0.029 (I)	A	0.003 (E)	NA	0.0017 (E)	NA
Aniline	D	0.0057 (I)	NA	B2	0.007 (E)	NA	0.00029 (I)	0.01 (H)

* Cancer slope factor for oral CSF used as recommended by USEPA

** Toxicity criteria of p-toluidine used

(I) IRIS (USEPA, 1999)

(E) USEPA NCEA Regional Support provisional value

(H) HEAST (USEPA, 1997)

Notes: Oral criteria used for dermal route of exposure

When subchronic toxicity values not available, chronic toxicity criteria used

NA = not available

4.0 RFI Soil Investigation Summary

This section presents the findings of the RFI soil investigation on a SWMU by SWMU basis. It presents the scope of work, field data observed during drilling, laboratory analytical results, risk assessment, and conclusions and recommendations for each SWMU. Previous investigation work conducted at the SWMU is incorporated where applicable. As discussed in Section 3, a tiered risk assessment approach was implemented at the SWMU. Some of the SWMUs were grouped based on proximity and the Phase 2 analytical results. The SWMUs are grouped as follows:

SWMU GROUP	SWMU
A	1, 2, 3, and 4
B	5, and 6
C	7, 8, 9, and 11
D	10, 12, 15, and 16

These SWMU groups include most of the SWMUs which were recommended for further evaluation based on the Phase 2 results. In addition to the SWMUs included in the SWMU Groups, SWMUs 27 and 30 were also evaluated further during Phase 3. Section 4 discusses the site areas and SWMUs in the following order: the undeveloped area (background samples), the SWMU Groups (A through D), and then individual SWMUs (in ascending order).

4.1 AREA 1: UNDEVELOPED AREA (Background Sample Results)

RFI Area 1 has never been developed. The boundaries for Area 1 were chosen to include virtually all undeveloped Bayer property in which chemical production has not occurred, waste has not been placed, and spills have not occurred.

4.1.1 RFI Scope of Work

As part of the Phase 2 investigation, five test borings were advanced using a HSA rig into the subsurface of Area 1 to depths of 5 ft-bgs to 16 ft-bgs at the locations illustrated in Figure 4.1-1. Soil samples were collected for submittal to the analytical laboratory from each of the five borings at the 0 to 1 ft-bgs, 3 to 5 ft-bgs, and either the two-foot sample either above groundwater or refusal in order to provide information on background conditions. All soil samples collected from Area 1 were submitted to the Bayer laboratory and analyzed for SVOCs and metals. The Bayer laboratory subcontracted the VOC analysis to Lancaster Laboratories. Table 4.1-1 presents the complete soil analytical results for Area 1 and Figure 4.1-1 provides selected soil analytical results on a plan view map. Table 4.1-2 provides the means, medians, and modes of the background metals data.

4.1.2 Field Observations

Appendix D contains the boring logs for test borings BG001-TB01 through BG001-TB05. The boring log for BG01-TB001 indicates that the area to the south of the developed portion of Bayer's property is underlain by soil comprised of reddish brown silt and clay from the surface to 7 ft-bgs, then changes to yellowish brown silty sand. Three background test borings were located to the east of State Route 2. Test boring BG001-TB02 is the southernmost boring and indicates the area is underlain by yellowish brown silty clay to a depth of 4 ft-bgs then changes abruptly to a yellowish orange-brown fine to medium grained sand with sandstone fragments. The remaining two borings east of State Route 2 (BG001-TB03 and BG01-TB04) as well as the test boring north of the developed portion of Bayer's property, predominately indicate a dark brown silty clay with organic matter and sandstone rock fragments in the upper 8 to 10 feet. Underlying this, soil comprised of reddish and yellowish silts and sands with varying amounts of sandstone rock fragments is present. Screening of the soil samples with an OVM did not detect organic vapors above background readings (1 part per million [ppm]) in any of the soil samples collected in Area 1.

TABLE 4.1-1
Soil Analytical Results for Background Soil Samples

SAMPLE ID	BG001-TB01-0001	BG001-TB01-0305	BG001-TB01-0608	BG001-TB02-0001	BG001-TB02-0305	BG001-TB02-1416	BG001-TB02-1416D	BG001-TB03-0001
SAMPLE DEPTH(ft)	0.00-1.00	3.00-5.00	6.00-8.00	0.00-1.00	3.00-5.00	14.00-16.00	14.00-16.00	0.00-1.00
SAMPLE LOCATION	TB01	TB01	TB01	TB02	TB02	TB02	TB02	TB03
SAMPLE DATE	11/21/1997	11/21/1997	11/21/1997	11/20/1997	11/20/1997	11/20/1997	11/20/1997	11/21/1997
PARAMETER								
Volatiles (µg/kg)								
1,1,1,2-Tetrachloroethane	< 314	< 308	< 299	< 306	< 308	< 291	< 287	< 299
1,1,1-Trichloroethane	< 163	< 160	< 156	< 159	< 160	< 151	< 149	< 156
1,1,2,2-Tetrachloroethane	< 163	< 160	< 156	< 159	< 160	< 151	< 149	< 156
1,1,2-Trichloroethane	< 314	< 308	< 299	< 306	< 308	< 291	< 287	< 299
1,1-Dichloroethane	< 163	< 160	< 156	< 159	< 160	< 151	< 149	< 156
1,1-Dichloroethene	< 314	< 308	< 299	< 306	< 308	< 291	< 287	< 299
1,1-Dichloropropene	< 163	< 160	< 156	< 159	< 160	< 151	< 149	< 156
1,2,3-Trichlorobenzene (VOAS)	< 163	< 160	< 156	< 159	< 160	< 151	< 149	< 156
1,2,3-Trichloropropane	< 163	< 160	< 156	< 159	< 160	< 151	< 149	< 156
1,2,4-Trichlorobenzene (VOAS)	< 163	< 160	< 156	< 159	< 160	< 151	< 149	< 156
1,2,4-Trimethylbenzene	< 163	< 160	< 156	< 159	< 160	< 151	< 149	< 156
1,2-Dibromo-3-chloropropane	< 314	< 308	< 299	< 306	< 308	< 291	< 287	< 299
1,2-Dibromoethane	< 163	< 160	< 156	< 159	< 160	< 151	< 149	< 156
1,2-Dichlorobenzene (VOAS)	< 314	< 308	< 299	< 306	< 308	< 291	< 287	< 299
1,2-Dichloroethane	< 314	< 308	< 299	< 306	< 308	< 291	< 287	< 299
1,2-Dichloropropane	< 477	< 467	< 455	< 466	< 469	< 442	< 436	< 455
1,3,5-Trimethylbenzene	< 163	< 160	< 156	< 159	< 160	< 151	< 149	< 156
1,3-Dichlorobenzene (VOAS)	< 314	< 308	< 299	< 306	< 308	< 291	< 287	< 299
1,3-Dichloropropane	< 163	< 160	< 156	< 159	< 160	< 151	< 149	< 156
1,4-Dichlorobenzene (VOAS)	< 314	< 308	< 299	< 306	< 308	< 291	< 287	< 299
2,2-Dichloropropane	< 163	< 160	< 156	< 159	< 160	< 151	< 149	< 156
2-Butanone	< 1104	< 1082	< 1054	< 1078	< 1085	< 1024	< 1009	< 1053
2-Chloroethyl Vinyl Ether	< 314	< 308	< 299	< 306	< 308	< 291	< 287	< 299
2-Chlorotoluene	< 163	< 160	< 156	< 159	< 160	< 151	< 149	< 156
2-Hexanone	< 477	< 467	< 455	< 466	< 469	< 442	< 436	< 455
4-Chlorotoluene	< 163	< 160	< 156	< 159	< 160	< 151	< 149	< 156
4-Methyl-2-pentanone	< 477	< 467	< 455	< 466	< 469	< 442	< 436	< 455
Acetone	< 1104	< 1082	< 1054	< 1078	< 1085	< 1024	< 1009	< 1053
Acrolein	< 3137	< 3075	< 2994	< 3064	< 3083	< 2910	< 2867	< 2990
Acrylonitrile	< 1631	< 1599	< 1557	< 1593	< 1603	< 1513	< 1491	< 1555
Allyl Chloride	< 163	< 160	< 156	< 159	< 160	< 151	< 149	< 156
Benzene	< 163	< 160	< 156	< 159	< 160	< 151	< 149	< 156
Bromobenzene	< 163	< 160	< 156	< 159	< 160	< 151	< 149	< 156
Bromochloromethane	< 163	< 160	< 156	< 159	< 160	< 151	< 149	< 156
Bromodichloromethane	< 314	< 308	< 299	< 306	< 308	< 291	< 287	< 299
Bromoform	< 163	< 160	< 156	< 159	< 160	< 151	< 149	< 156
Bromomethane	< 477	< 467	< 455	< 466	< 469	< 442	< 436	< 455
Carbon Disulfide	< 477	< 467	< 455	< 466	< 469	< 442	< 436	< 455
Carbon Tetrachloride	< 163	< 160	< 156	< 159	< 160	< 151	< 149	< 156
Chlorobenzene	< 163	< 160	< 156	< 159	< 160	< 151	< 149	< 156
Chloroethane	< 477	< 467	< 455	< 466	< 469	< 442	< 436	< 455
Chloroform	< 163	< 160	< 156	< 159	< 160	< 151	< 149	< 156

TABLE 4.1-1
Soil Analytical Results for Background Soil Samples

SAMPLE ID	BG001-TB01-0001	BG001-TB01-0305	BG001-TB01-0608	BG001-TB02-0001	BG001-TB02-0305	BG001-TB02-1416	BG001-TB02-1416D	BG001-TB03-0001
SAMPLE DEPTH(ft)	0.00-1.00	3.00-5.00	6.00-8.00	0.00-1.00	3.00-5.00	14.00-16.00	14.00-16.00	0.00-1.00
SAMPLE LOCATION	TB01	TB01	TB01	TB02	TB02	TB02	TB02	TB03
SAMPLE DATE	11/21/1997	11/21/1997	11/21/1997	11/20/1997	11/20/1997	11/20/1997	11/20/1997	11/21/1997
PARAMETER								
Chloromethane	< 314	< 308	< 299	< 306	< 308	< 291	< 287	< 299
Dibromochloromethane	< 163	< 160	< 156	< 159	< 160	< 151	< 149	< 156
Dibromomethane	< 163	< 160	< 156	< 159	< 160	< 151	< 149	< 156
Dichlorodifluoromethane	< 314	< 308	< 299	< 306	< 308	< 291	< 287	< 299
Ethyl Methacrylate	< 163	< 160	< 156	< 159	< 160	< 151	< 149	< 156
Ethylbenzene	< 163	< 160	< 156	< 159	< 160	< 151	< 149	< 156
Freon 113	< 314	< 308	< 299	< 306	< 308	< 291	< 287	< 299
Freon 141b	< 163	< 160	< 156	< 159	< 160	< 151	< 149	< 156
Hexachlorobutadiene (VOAS)	< 314	< 308	< 299	< 306	< 308	< 291	< 287	< 299
Isopropylbenzene	< 477	< 467	< 455	< 466	< 469	< 442	< 436	< 455
Methyl Iodide	< 477	< 467	< 455	< 466	< 469	< 442	< 436	< 455
Methylene Chloride	< 314	< 308	< 299	< 306	< 308	< 291	< 287	< 299
Naphthalene (VOAS)	< 163	< 160	< 156	< 159	< 160	< 151	< 149	< 156
Styrene	< 163	< 160	< 156	< 159	< 160	< 151	< 149	< 156
Tetrachloroethene	< 163	< 160	< 156	< 159	< 160	< 151	< 149	< 156
Toluene	< 163	< 160	< 156	< 159	< 160	< 151	< 149	< 156
Trichloroethene	< 163	< 160	< 156	< 159	< 160	< 151	< 149	< 156
Trichlorofluoromethane	< 314	< 308	< 299	< 306	< 308	< 291	< 287	< 299
Vinyl Acetate	< 477	< 467	< 455	< 466	< 469	< 442	< 436	< 455
Vinyl Chloride	< 314	< 308	< 299	< 306	< 308	< 291	< 287	< 299
cis-1,2-Dichloroethene	< 314	< 308	< 299	< 306	< 308	< 291	< 287	< 299
cis-1,3-Dichloropropene	< 163	< 160	< 156	< 159	< 160	< 151	< 149	< 156
m+p-Xylene	< 163	< 160	< 156	< 159	< 160	< 151	< 149	< 156
n-Butylbenzene	< 163	< 160	< 156	< 159	< 160	< 151	< 149	< 156
n-Propylbenzene	< 163	< 160	< 156	< 159	< 160	< 151	< 149	< 156
o-Xylene	< 163	< 160	< 156	< 159	< 160	< 151	< 149	< 156
p-Isopropyltoluene	< 163	< 160	< 156	< 159	< 160	< 151	< 149	< 156
sec-Butylbenzene	< 163	< 160	< 156	< 159	< 160	< 151	< 149	< 156
tert-Butylbenzene	< 163	< 160	< 156	< 159	< 160	< 151	< 149	< 156
trans-1,2-Dichloroethene	< 314	< 308	< 299	< 306	< 308	< 291	< 287	< 299
trans-1,3-Dichloropropene	< 163	< 160	< 156	< 159	< 160	< 151	< 149	< 156
trans-1,4-Dichloro-2-butene	< 1631	< 1599	< 1557	< 1593	< 1603	< 1513	< 1491	< 1555
Semivolatiles (µg/kg)								
1,2,3-Trichlorobenzene (SVOA)	< 300	< 300	< 290	< 290	< 300	< 280	< 280	< 290
1,2,4,5-Tetrachlorobenzene	< 300	< 300	< 290	< 290	< 300	< 280	< 280	< 290
1,2,4-Trichlorobenzene (SVOA)	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
1,2-Dichlorobenzene (SVOA)	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
1,3-Dichlorobenzene (SVOA)	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
1,4-Dichlorobenzene (SVOA)	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
1-Chloronaphthalene	< 630	< 610	< 600	< 610	< 620	< 580	< 570	< 600
1-Methylnaphthalene	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
1-Naphthylamine	< 850	< 840	< 810	< 830	< 840	< 790	< 780	< 810

TABLE 4.1-1
Soil Analytical Results for Background Soil Samples

SAMPLE ID	BG001-TB01-0001	BG001-TB01-0305	BG001-TB01-0608	BG001-TB02-0001	BG001-TB02-0305	BG001-TB02-1416	BG001-TB02-1416D	BG001-TB03-0001
SAMPLE DEPTH(ft)	0.00-1.00	3.00-5.00	6.00-8.00	0.00-1.00	3.00-5.00	14.00-16.00	14.00-16.00	0.00-1.00
SAMPLE LOCATION	TB01	TB01	TB01	TB02	TB02	TB02	TB02	TB03
SAMPLE DATE	11/21/1997	11/21/1997	11/21/1997	11/20/1997	11/20/1997	11/20/1997	11/20/1997	11/21/1997
PARAMETER								
2,3,4,6-Tetrachlorophenol	< 500	< 490	< 480	< 490	< 490	< 470	< 460	< 480
2,3-Dichloroaniline	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
2,4,5-Trichlorophenol	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
2,4,6-Trichlorophenol	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
2,4-Dichlorophenol	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
2,4-Dimethylphenol	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
2,4-Dinitrophenol	< 1560	< 1530	< 1490	< 1520	< 1530	< 1440	< 1420	< 1480
2,4-Dinitrotoluene	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
2,4-Toluenediamine	< 1250	< 1230	< 1200	< 1230	< 1230	< 1160	< 1150	< 1200
2,6-Dichlorophenol	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
2,6-Dinitrotoluene	< 250	290	320	< 250	< 250	< 230	230	< 240
2-Chloronaphthalene	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
2-Chlorophenol	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
2-Methylnaphthalene	< 250	< 250	< 240	< 250	< 250	< 230	< 230	280
2-Naphthylamine	< 950	< 930	< 910	< 930	< 940	< 880	< 870	< 910
2-Nitroaniline	< 300	< 300	< 290	< 290	< 300	< 280	< 280	< 290
2-Nitrodiphenylamine	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
2-Nitrophenol	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
2-Picoline	< 930	< 910	< 890	< 910	< 910	< 860	< 850	< 890
3,3'-Dichlorobenzidine	< 1530	< 1500	< 1460	< 1500	< 1500	< 1420	< 1400	< 1460
3-Methylcholanthrene	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
3-Nitroaniline	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
4,4' Methylenedianiline	< 2210	< 2160	< 2110	< 2160	< 2170	< 2050	< 2020	< 2110
4,6-Dinitro-o-cresol	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
4-Aminobiphenyl	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
4-Aminodiphenylamine	< 630	< 610	< 600	< 610	< 620	< 580	< 570	< 600
4-Bromophenyl phenyl ether	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
4-Chloro-m-cresol	460	< 250	< 240	< 250	< 250	< 230	< 230	< 240
4-Chlorophenylphenyl ether	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
4-Nitroaniline	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
4-Nitrophenol	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
5-Nitro-o-toluidine	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
7,12-dimethylbenz[a]anthracene	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
Acenaphthene	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
Acenaphthylene	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
Acetophenone	< 330	< 320	< 310	< 320	< 320	< 300	< 300	< 310
Aniline	< 350	< 340	< 340	< 340	< 350	< 330	< 320	< 330
Anthracene	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
Azobenzene	< 300	< 300	< 290	< 290	< 300	< 280	< 280	< 290
Benzidine	< 4020	< 3940	< 3830	< 3920	< 3950	< 3730	< 3670	< 3830
Benzo(a)anthracene	< 330	< 320	< 310	< 320	< 320	< 300	< 300	< 310
Benzo(a)pyrene	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240

TABLE 4.1-1
Soil Analytical Results for Background Soil Samples

SAMPLE ID	BG001-TB01-0001	BG001-TB01-0305	BG001-TB01-0608	BG001-TB02-0001	BG001-TB02-0305	BG001-TB02-1416	BG001-TB02-1416D	BG001-TB03-0001
SAMPLE DEPTH(ft)	0.00-1.00	3.00-5.00	6.00-8.00	0.00-1.00	3.00-5.00	14.00-16.00	14.00-16.00	0.00-1.00
SAMPLE LOCATION	TB01	TB01	TB01	TB02	TB02	TB02	TB02	TB03
SAMPLE DATE	11/21/1997	11/21/1997	11/21/1997	11/20/1997	11/20/1997	11/20/1997	11/20/1997	11/21/1997
PARAMETER								
Benzo(b)fluoranthene	310	< 250	< 240	< 250	< 250	< 230	< 230	< 240
Benzo(ghi)perylene	< 280	< 270	< 260	< 270	< 270	< 260	< 250	< 260
Benzo(k)fluoranthene	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
Benzoic Acid	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
Benzyl Alcohol	< 250 J	< 250 J	< 240 J	< 250 J	< 250 J	< 230 J	< 230 J	< 240 J
Benzyl butyl phthalate	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
Bis(2-chloroethoxymethane)	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
Bis(2-chloroethyl)ether	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
Bis(2-chloroisopropyl)ether	< 250 J	< 250 J	< 240 J	< 250 J	< 250 J	< 230 J	< 230 J	< 240 J
Bis(2-ethylhexyl) phthalate	450 B	680 B	790 B	460 B	1030 B	720 B	680 B	810 B
Bisphenol A	< 450	< 440	< 430	< 440	10090	< 420	< 410	< 430
Carbazole	< 1250	< 1230	< 1200	< 1230	< 1230	< 1160	< 1150	< 1200
Chrysene	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
Cyclohexanone	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
Di-n-butyl phthalate	1620 B	6740 B	9510 B	6180 B	5100 B	7100 B	4560 B	4860 B
Di-n-octyl phthalate	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
Dibenzo(a,h)anthracene	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
Dibenzofuran	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
Diethyl Phthalate	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
Dimethylphthalate	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
Ethyl Methane Sulfonate	< 450	< 440	< 430	< 440	< 440	< 420	< 410	< 430
Fluoranthene	260	< 250	< 240	< 250	< 250	< 230	< 230	< 240
Fluorene	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
Heptachlor	< 280	< 270	< 260	< 270	< 270	< 260	< 250	< 260
Hexachlorobenzene	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
Hexachlorobutadiene (SVOA)	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
Hexachlorocyclopentadiene	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
Hexachloroethane	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
Indeno(1,2,3-cd)pyrene	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
Isophorone	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
Methyl methane sulfonate	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
N-Nitrosodibutylamine	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
N-Nitrosodimethylamine	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
N-Nitrosodiphenylamine	< 330	< 320	< 310	< 320	< 320	< 300	< 300	< 310
N-Nitrosodipropylamine	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
N-Nitrosopiperidine	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
Naphthalene (SVOA)	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
Nitrobenzene	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
Pentachlorobenzene	< 430	< 420	< 410	< 420	< 420	< 400	< 390	< 410
Pentachloronitrobenzene	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
Pentachlorophenol	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
Phenacetin	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240

TABLE 4.1-1
Soil Analytical Results for Background Soil Samples

SAMPLE ID	BG001-TB01-0001	BG001-TB01-0305	BG001-TB01-0608	BG001-TB02-0001	BG001-TB02-0305	BG001-TB02-1416	BG001-TB02-1416D	BG001-TB03-0001
SAMPLE DEPTH(ft)	0.00-1.00	3.00-5.00	6.00-8.00	0.00-1.00	3.00-5.00	14.00-16.00	14.00-16.00	0.00-1.00
SAMPLE LOCATION	TB01	TB01	TB01	TB02	TB02	TB02	TB02	TB03
SAMPLE DATE	11/21/1997	11/21/1997	11/21/1997	11/20/1997	11/20/1997	11/20/1997	11/20/1997	11/21/1997
PARAMETER								
Phenanthrene	270	< 250	< 240	< 250	< 250	< 230	< 230	240
Phenol	< 150	< 150	< 140	< 150	< 150	< 140	< 140	< 140
Pyrene	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
Pyridine	< 280	< 270	< 260	< 270	< 270	< 260	< 250	< 260
Trimethylphosphate	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
Triphenylphosphate	< 1250	< 1230	< 1200	< 1230	< 1230	< 1160	< 1150	< 1200
m,p-Cresol	< 380	< 370	< 360	< 370	< 370	< 350	< 340	< 360
m-Nitrotoluene	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
m-Toluidine	< 500	< 490	< 480	< 490	< 490	< 470	< 460	< 480
o,p-Toluidine	< 1280	< 1250	< 1220	< 1250	< 1260	< 1190	< 1170	< 1220
o-Cresol	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
o-Nitrotoluene	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
p-Chloroaniline	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
p-Dimethylaminoazobenzene	< 250	< 250	< 240	< 250	< 250	< 230	< 230	< 240
p-Nitrotoluene	< 380	< 370	< 360	< 370	< 370	< 350	< 340	< 360
Metals (µg/kg)								
Antimony	< 502	< 492	< 479	< 490	< 493	< 466	< 459	< 478
Cadmium	< 501880	< 492000	< 479040	< 490200	< 493220	< 465660	< 458720	< 478470
Chromium	2110	5140	2360	4800	4550	3770	5540	5800
Lead	1794 J	3444 J	1665 J	2831 J	2787 J	2340 J	2362 J	3050 J
Nickel	11170	6770	3350	9440	6540	5700	7110	8010
Miscellaneous (µg/kg)								
Percent Moisture	20 %	19 %	17 %	18 %	19 %	14 %	13 %	16 %
BTU from ECD	< 500 BTU	< 500 BTU	< 500 BTU	< 500 BTU	< 500 BTU	< 500 BTU	< 500 BTU	< 500 BTU
Ignitability (Flash Point) for S	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative
pH in Water (Solid Sample)	6 std	6 std	6 std	7 std	7 std	7 std	7 std	7 std

B= Blank Contamination
J=Estimated Value
NA= Not Analyzed
R= Data Rejected for Quality Reasons

TABLE 4.1-1
Soil Analytical Results for Background Soil Samples

SAMPLE ID	BG001-TB03-0305	BG001-TB04-0001	BG001-TB04-0305	BG001-TB04-1012	BG001-TB05-0001	BG001-TB05-0305	BG001-TB05-1416
SAMPLE DEPTH(ft)	3.00-5.00	0.00-1.00	3.00-5.00	10.00-12.00	0.00-1.00	3.00-5.00	14.00-16.00
SAMPLE LOCATION	TB03	TB04	TB04	TB04	TB05	TB05	TB05
SAMPLE DATE	11/21/1997	11/20/1997	11/20/1997	11/20/1997	11/20/1997	11/20/1997	11/20/1997
PARAMETER							
Volatiles (µg/kg)							
1,1,1,2-Tetrachloroethane	< 311	< 315	< 286	< 290	< 288	< 318	< 309
1,1,1-Trichloroethane	< 161	< 164	< 149	< 151	< 150	< 165	< 161
1,1,2,2-Tetrachloroethane	< 161	< 164	< 149	< 151	< 150	< 165	< 161
1,1,2-Trichloroethane	< 311	< 315	< 286	< 290	< 288	< 318	< 309
1,1-Dichloroethane	< 161	< 164	< 149	< 151	< 150	< 165	< 161
1,1-Dichloroethene	< 311	< 315	< 286	< 290	< 288	< 318	< 309
1,1-Dichloropropene	< 161	< 164	< 149	< 151	< 150	< 165	< 161
1,2,3-Trichlorobenzene (VOAS)	< 161	< 164	< 149	< 151	231	< 165	< 161
1,2,3-Trichloropropane	< 161	< 164	< 149	< 151	< 150	< 165	< 161
1,2,4-Trichlorobenzene (VOAS)	< 161	< 164	< 149	< 151	150	< 165	< 161
1,2,4-Trimethylbenzene	< 161	< 164	< 149	< 151	< 150	< 165	< 161
1,2-Dibromo-3-chloropropane	< 311	< 315	< 286	< 290	554	< 318	< 309
1,2-Dibromoethane	< 161	< 164	< 149	< 151	< 150	< 165	< 161
1,2-Dichlorobenzene (VOAS)	< 311	< 315	< 286	< 290	< 288	< 318	< 309
1,2-Dichloroethane	< 311	< 315	< 286	< 290	< 288	< 318	< 309
1,2-Dichloropropane	< 472	< 479	< 435	< 441	< 438	< 483	< 470
1,3,5-Trimethylbenzene	< 161	< 164	< 149	< 151	< 150	< 165	< 161
1,3-Dichlorobenzene (VOAS)	< 311	< 315	< 286	< 290	< 288	< 318	< 309
1,3-Dichloropropane	< 161	< 164	< 149	< 151	< 150	< 165	< 161
1,4-Dichlorobenzene (VOAS)	< 311	< 315	< 286	< 290	< 288	< 318	< 309
2,2-Dichloropropane	< 161	< 164	< 149	< 151	< 150	< 165	< 161
2-Butanone	< 1093	< 1108	< 1007	< 1022	< 1015	< 1120	< 1089
2-Chloroethyl Vinyl Ether	< 311	< 315	< 286	< 290	< 288	< 318	< 309
2-Chlorotoluene	< 161	< 164	< 149	< 151	< 150	< 165	< 161
2-Hexanone	< 472	< 479	< 435	< 441	< 438	< 483	< 470
4-Chlorotoluene	< 161	< 164	< 149	< 151	< 150	< 165	< 161
4-Methyl-2-pentanone	< 472	< 479	< 435	< 441	< 438	< 483	< 470
Acetone	< 1093	< 1108	< 1007	< 1022	< 1015	< 1120	< 1089
Acrolein	< 3106	< 3149	< 2860	< 2904	< 2884	< 3181	< 3094
Acrylonitrile	< 1615	< 1637	< 1487	< 1510	< 1499	< 1654	< 1609
Allyl Chloride	< 161	< 164	< 149	< 151	< 150	< 165	< 161
Benzene	< 161	< 164	< 149	< 151	< 150	< 165	< 161
Bromobenzene	< 161	< 164	< 149	< 151	< 150	< 165	< 161
Bromochloromethane	< 161	< 164	< 149	< 151	< 150	< 165	< 161
Bromodichloromethane	< 311	< 315	< 286	< 290	< 288	< 318	< 309
Bromoform	< 161	< 164	< 149	< 151	< 150	< 165	< 161
Bromomethane	< 472	< 479	< 435	< 441	< 438	< 483	< 470
Carbon Disulfide	< 472	< 479	< 435	< 441	< 438	< 483	< 470
Carbon Tetrachloride	< 161	< 164	< 149	< 151	< 150	< 165	< 161
Chlorobenzene	< 161	< 164	< 149	< 151	< 150	< 165	< 161
Chloroethane	< 472	< 479	< 435	< 441	< 438	< 483	< 470
Chloroform	< 161	< 164	< 149	< 151	< 150	< 165	< 161

TABLE 4.1-1
Soil Analytical Results for Background Soil Samples

SAMPLE ID	BG001-TB03-0305	BG001-TB04-0001	BG001-TB04-0305	BG001-TB04-1012	BG001-TB05-0001	BG001-TB05-0305	BG001-TB05-1416
SAMPLE DEPTH(ft)	3.00-5.00	0.00-1.00	3.00-5.00	10.00-12.00	0.00-1.00	3.00-5.00	14.00-16.00
SAMPLE LOCATION	TB03	TB04	TB04	TB04	TB05	TB05	TB05
SAMPLE DATE	11/21/1997	11/20/1997	11/20/1997	11/20/1997	11/20/1997	11/20/1997	11/20/1997
PARAMETER							
Chloromethane	< 311	< 315	< 286	< 290	< 288	< 318	< 309
Dibromochloromethane	< 161	< 164	< 149	< 151	< 150	< 165	< 161
Dibromomethane	< 161	< 164	< 149	< 151	< 150	< 165	< 161
Dichlorodifluoromethane	< 311	< 315	< 286	< 290	< 288	< 318	< 309
Ethyl Methacrylate	< 161	< 164	< 149	< 151	< 150	< 165	< 161
Ethylbenzene	< 161	< 164	< 149	< 151	< 150	< 165	< 161
Freon 113	< 311	< 315	< 286	< 290	969	< 318	< 309
Freon 141b	< 161	< 164	< 149	< 151	< 150	< 165	< 161
Hexachlorobutadiene (VOAS)	< 311	< 315	< 286	< 290	< 288	< 318	< 309
Isopropylbenzene	< 472	< 479	< 435	< 441	< 438	< 483	< 470
Methyl Iodide	< 472	< 479	< 435	< 441	< 438	< 483	< 470
Methylene Chloride	< 311	< 315	< 286	< 290	< 288	< 318	< 309
Naphthalene (VOAS)	< 161	< 164	< 149	< 151	323	< 165	< 161
Styrene	< 161	< 164	< 149	< 151	< 150	< 165	< 161
Tetrachloroethene	< 161	< 164	< 149	< 151	< 150	< 165	< 161
Toluene	< 161	< 164	< 149	< 151	< 150	< 165	< 161
Trichloroethene	< 161	< 164	< 149	< 151	< 150	< 165	< 161
Trichlorofluoromethane	< 311	< 315	< 286	< 290	< 288	< 318	< 309
Vinyl Acetate	< 472	< 479	< 435	< 441	< 438	< 483	< 470
Vinyl Chloride	< 311	< 315	< 286	< 290	< 288	< 318	< 309
cis-1,2-Dichloroethene	< 311	< 315	< 286	< 290	< 288	< 318	< 309
cis-1,3-Dichloropropene	< 161	< 164	< 149	< 151	< 150	< 165	< 161
m+p-Xylene	< 161	< 164	< 149	< 151	< 150	< 165	< 161
n-Butylbenzene	< 161	< 164	< 149	< 151	< 150	< 165	< 161
n-Propylbenzene	< 161	< 164	< 149	< 151	< 150	< 165	< 161
o-Xylene	< 161	< 164	< 149	< 151	< 150	< 165	< 161
p-Isopropyltoluene	< 161	< 164	< 149	< 151	< 150	< 165	< 161
sec-Butylbenzene	< 161	< 164	< 149	< 151	< 150	< 165	< 161
tert-Butylbenzene	< 161	< 164	< 149	< 151	< 150	< 165	< 161
trans-1,2-Dichloroethene	< 311	< 315	< 286	< 290	< 288	< 318	< 309
trans-1,3-Dichloropropene	< 161	< 164	< 149	< 151	< 150	< 165	< 161
trans-1,4-Dichloro-2-butene	< 1615	< 1637	< 1487	< 1510	< 1499	< 1654	< 1609
Semivolatiles (µg/kg)							
1,2,3-Trichlorobenzene (SVOA)	< 300	< 300	< 270	< 280	< 550	< 310	< 300
1,2,4,5-Tetrachlorobenzene	< 300	< 300	< 270	< 280	< 550	< 310	< 300
1,2,4-Trichlorobenzene (SVOA)	< 250	< 250	< 230	< 230	< 460	< 250	< 250
1,2-Dichlorobenzene (SVOA)	< 250	< 250	< 230	< 230	700	< 250	< 250
1,3-Dichlorobenzene (SVOA)	< 250	< 250	< 230	< 230	< 460	< 250	< 250
1,4-Dichlorobenzene (SVOA)	< 250	< 250	< 230	< 230	< 460	< 250	< 250
1-Chloronaphthalene	< 620	< 630	< 570	< 580	< 1150	< 640	< 620
1-Methylnaphthalene	< 250	< 250	< 230	< 230	< 460	< 250	< 250
1-Naphthylamine	< 840	< 860	< 780	< 790	< 1570	< 870	< 840

TABLE 4.1-1
Soil Analytical Results for Background Soil Samples

SAMPLE ID	BG001-TB03-0305	BG001-TB04-0001	BG001-TB04-0305	BG001-TB04-1012	BG001-TB05-0001	BG001-TB05-0305	BG001-TB05-1416
SAMPLE DEPTH(ft)	3.00-5.00	0.00-1.00	3.00-5.00	10.00-12.00	0.00-1.00	3.00-5.00	14.00-16.00
SAMPLE LOCATION	TB03	TB04	TB04	TB04	TB05	TB05	TB05
SAMPLE DATE	11/21/1997	11/20/1997	11/20/1997	11/20/1997	11/20/1997	11/20/1997	11/20/1997
PARAMETER							
2,3,4,6-Tetrachlorophenol	< 500	< 500	< 460	< 460	< 920	< 510	< 490
2,3-Dichloroaniline	< 250	< 250	< 230	< 230	< 460	< 250	< 250
2,4,5-Trichlorophenol	< 250	< 250	< 230	< 230	< 460	< 250	< 250
2,4,6-Trichlorophenol	< 250	< 250	< 230	< 230	< 460	< 250	< 250
2,4-Dichlorophenol	< 250	< 250	< 230	< 230	< 460	< 250	< 250
2,4-Dimethylphenol	< 250	< 250	< 230	< 230	< 460	< 250	< 250
2,4-Dinitrophenol	< 1540	< 1560	< 1420	< 1440	< 2860	< 1580	< 1530
2,4-Dinitrotoluene	< 250	< 250	< 230	< 230	< 460	< 250	< 250
2,4-Toluenediamine	< 1240	< 1260	< 1140	< 1160	< 2310	< 1270	< 1240
2,6-Dichlorophenol	< 250	< 250	< 230	< 230	< 460	< 250	< 250
2,6-Dinitrotoluene	250	< 250	< 230	260	< 460	< 250	< 250
2-Chloronaphthalene	< 250	< 250	< 230	< 230	< 460	< 250	< 250
2-Chlorophenol	< 250	< 250	< 230	< 230	< 460	< 250	< 250
2-Methylnaphthalene	< 250	< 250	< 230	< 230	< 460	< 250	< 250
2-Naphthylamine	< 940	< 960	< 870	< 880	< 1750	< 970	< 940
2-Nitroaniline	< 300	< 300	< 270	< 280	< 550	< 310	< 300
2-Nitrodiphenylamine	< 250	< 250	< 230	< 230	< 460	< 250	< 250
2-Nitrophenol	< 250	< 250	< 230	< 230	< 460	< 250	< 250
2-Picoline	< 920	< 930	< 850	< 860	< 1710	< 940	< 920
3,3'-Dichlorobenzidine	< 1520	< 1540	< 1400	< 1420	< 2810	< 1550	< 1510
3-Methylcholanthrene	< 250	< 250	< 230	< 230	< 460	< 250	< 250
3-Nitroaniline	< 250	< 250	< 230	< 230	< 460	< 250	< 250
4,4' Methylenedianiline	< 2190	< 2220	< 2010	< 2040	< 4060	< 2240	< 2180
4,6-Dinitro-o-cresol	< 250	< 250	< 230	< 230	< 460	< 250	< 250
4-Aminobiphenyl	< 250	< 250	< 230	< 230	< 460	< 250	< 250
4-Aminodiphenylamine	< 620	< 630	< 570	< 580	< 1150	< 640	< 620
4-Bromophenyl phenyl ether	< 250	< 250	< 230	< 230	< 460	< 250	< 250
4-Chloro-m-cresol	< 250	< 250	< 230	< 230	< 460	< 250	< 250
4-Chlorophenylphenyl ether	< 250	< 250	< 230	< 230	< 460	< 250	< 250
4-Nitroaniline	< 250	< 250	< 230	< 230	< 460	< 250	< 250
4-Nitrophenol	< 250	< 250	< 230	< 230	< 460	< 250	< 250
5-Nitro-o-toluidine	< 250	< 250	< 230	< 230	< 460	< 250	< 250
7,12-dimethylbenz[a]anthracene	< 250	< 250	< 230	< 230	< 460	< 250	< 250
Acenaphthene	< 250	< 250	< 230	< 230	< 460	< 250	< 250
Acenaphthylene	< 250	< 250	< 230	< 230	< 460	< 250	< 250
Acetophenone	< 320	< 330	< 300	< 300	< 600	< 330	< 320
Aniline	< 350	< 350	< 320	< 330	< 650	< 360	< 350
Anthracene	< 250	< 250	< 230	< 230	680	< 250	< 250
Azobenzene	< 300	< 300	< 270	< 280	< 550	< 310	< 300
Benzidine	< 3980	< 4030	< 3660	< 3720	< 7380	< 4070	< 3960
Benzo(a)anthracene	< 320	< 330	< 300	< 300	1520	< 330	< 320
Benzo(a)pyrene	< 250	< 250	< 230	< 230	1440	< 250	< 250

TABLE 4.1-1
Soil Analytical Results for Background Soil Samples

SAMPLE ID	BG001-TB03-0305	BG001-TB04-0001	BG001-TB04-0305	BG001-TB04-1012	BG001-TB05-0001	BG001-TB05-0305	BG001-TB05-1416
SAMPLE DEPTH(ft)	3.00-5.00	0.00-1.00	3.00-5.00	10.00-12.00	0.00-1.00	3.00-5.00	14.00-16.00
SAMPLE LOCATION	TB03	TB04	TB04	TB04	TB05	TB05	TB05
SAMPLE DATE	11/21/1997	11/20/1997	11/20/1997	11/20/1997	11/20/1997	11/20/1997	11/20/1997
PARAMETER							
Benzo(b)fluoranthene	< 250	< 250	< 230	< 230	1400	< 250	< 250
Benzo(ghi)perylene	< 270	< 280	< 250	< 260	1180	< 280	< 270
Benzo(k)fluoranthene	< 250	< 250	< 230	< 230	1660	< 250	< 250
Benzoic Acid	< 250	< 250	< 230	< 230	< 460	< 250	< 250
Benzyl Alcohol	< 250 J	< 250 J	< 230 J	< 230 J	< 460 J	< 250 J	< 250 J
Benzyl butyl phthalate	< 250	< 250	< 230	< 230	< 460	< 250	< 250
Bis(2-chloroethoxymethane)	< 250	< 250	< 230	< 230	< 460	< 250	< 250
Bis(2-chloroethyl)ether	< 250	< 250	< 230	< 230	< 460	< 250	< 250
Bis(2-chloroisopropyl)ether	< 250 J	< 250 J	< 230 J	< 230 J	< 460 J	< 250 J	< 250 J
Bis(2-ethylhexyl) phthalate	710 B	730 B	600 B	650 B	600 B	510 B	490 B
Bisphenol A	< 450	< 450	8260	< 420	36100	< 460	< 450
Carbazole	< 1240	< 1260	< 1140	< 1160	< 2310	< 1270	< 1240
Chrysene	< 250	< 250	< 230	< 230	1790	< 250	< 250
Cyclohexanone	< 250	< 250	< 230	< 230	< 460	< 250	< 250
Di-n-butyl phthalate	8000 B	7610 B	1890 B	8080 B	1820 B	4940 B	1920 B
Di-n-octyl phthalate	< 250	< 250	< 230	< 230	< 460	< 250	< 250
Dibenzo(a,h)anthracene	< 250	< 250	< 230	< 230	< 460	< 250	< 250
Dibenzofuran	< 250	< 250	< 230	< 230	< 460	< 250	< 250
Diethyl Phthalate	< 250	< 250	< 230	< 230	< 460	< 250	< 250
Dimethylphthalate	< 250	< 250	< 230	< 230	< 460	< 250	< 250
Ethyl Methane Sulfonate	< 450	< 450	< 410	< 420	< 830	< 460	< 450
Fluoranthene	< 250	< 250	< 230	< 230	3920	< 250	< 250
Fluorene	< 250	< 250	< 230	< 230	< 460	< 250	< 250
Heptachlor	< 270	< 280	< 250	< 260	< 510	< 280	< 270
Hexachlorobenzene	< 250	< 250	< 230	< 230	< 460	< 250	< 250
Hexachlorobutadiene (SVOA)	< 250	< 250	< 230	< 230	< 460	< 250	< 250
Hexachlorocyclopentadiene	< 250	< 250	< 230	< 230	< 460	< 250	< 250
Hexachloroethane	< 250	< 250	< 230	< 230	< 460	< 250	< 250
Indeno(1,2,3-cd)pyrene	< 250	< 250	< 230	< 230	960	< 250	< 250
Isophorone	< 250	< 250	< 230	< 230	< 460	< 250	< 250
Methyl methane sulfonate	< 250	< 250	< 230	< 230	< 460	< 250	< 250
N-Nitrosodibutylamine	< 250	< 250	< 230	< 230	< 460	< 250	< 250
N-Nitrosodimethylamine	< 250	< 250	< 230	< 230	< 460	< 250	< 250
N-Nitrosodiphenylamine	< 320	< 330	< 300	< 300	< 600	< 330	< 320
N-Nitrosodipropylamine	< 250	< 250	< 230	< 230	< 460	< 250	< 250
N-Nitrosopiperidine	< 250	< 250	< 230	< 230	< 460	< 250	< 250
Naphthalene (SVOA)	< 250	< 250	< 230	< 230	< 460	< 250	< 250
Nitrobenzene	< 250	< 250	< 230	< 230	< 460	< 250	< 250
Pentachlorobenzene	< 420	< 430	< 390	< 390	< 780	< 430	< 420
Pentachloronitrobenzene	< 250	< 250	< 230	< 230	< 460	< 250	< 250
Pentachlorophenol	< 250	< 250	< 230	< 230	< 460	< 250	< 250
Phenacetin	< 250	< 250	< 230	< 230	< 460	< 250	< 250

TABLE 4.1-1
Soil Analytical Results for Background Soil Samples

SAMPLE ID	BG001-TB03-0305	BG001-TB04-0001	BG001-TB04-0305	BG001-TB04-1012	BG001-TB05-0001	BG001-TB05-0305	BG001-TB05-1416
SAMPLE DEPTH(ft)	3.00-5.00	0.00-1.00	3.00-5.00	10.00-12.00	0.00-1.00	3.00-5.00	14.00-16.00
SAMPLE LOCATION	TB03	TB04	TB04	TB04	TB05	TB05	TB05
SAMPLE DATE	11/21/1997	11/20/1997	11/20/1997	11/20/1997	11/20/1997	11/20/1997	11/20/1997
PARAMETER							
Phenanthrene	< 250	< 250	< 230	240	3280	< 250	< 250
Phenol	< 150	< 150	< 140	< 140	6920	< 150	< 150
Pyrene	< 250	< 250	< 230	< 230	3690	< 250	< 250
Pyridine	< 270	< 280	< 250	< 260	< 510	< 280	< 270
Trimethylphosphate	< 250	< 250	< 230	< 230	< 460	< 250	< 250
Triphenylphosphate	< 1240	< 1260	< 1140	< 1160	< 2310	< 1270	< 1240
m,p-Cresol	< 370	< 380	< 340	< 350	< 690	< 380	< 370
m-Nitrotoluene	< 250	< 250	< 230	< 230	< 460	< 250	< 250
m-Toluidine	< 500	< 500	< 460	< 460	< 920	< 510	< 490
o,p-Toluidine	< 1270	< 1280	< 1170	< 1180	< 2350	< 1300	< 1260
o-Cresol	< 250	< 250	< 230	< 230	< 460	< 250	< 250
o-Nitrotoluene	< 250	< 250	< 230	< 230	< 460	< 250	< 250
p-Chloroaniline	< 250	< 250	< 230	< 230	< 460	< 250	< 250
p-Dimethylaminoazobenzene	< 250	< 250	< 230	< 230	< 460	< 250	< 250
p-Nitrotoluene	< 370	< 380	< 340	< 350	< 690	< 380	< 370
Metals (µg/kg)							
Antimony	< 497	< 504	< 458	< 465	< 461	< 509	< 495
Cadmium	< 496890	< 503780	< 457670	< 464580	< 461360	< 508910	< 495050
Chromium	4000	3340	3550	5040	3560	3930	4520
Lead	1217 J	2053 J	2037 J	2056 J	1491 J	1641 J	1745 J
Nickel	8070	5670	7670	6850	14880	16410	6440
Miscellaneous (µg/kg)							
Percent Moisture	20 %	21 %	13 %	14 %	13 %	21 %	19 %
BTU from ECD	< 500 BTU	< 500 BTU	< 500 BTU	< 500 BTU	< 500 BTU	< 500 BTU	< 500 BTU
Ignitability (Flash Point) for S	Negative	Negative	Negative	Negative	Negative	Negative	Negative
pH in Water (Solid Sample)	7 std	6 std	6 std	6 std	7 std	7 std	7 std

B= Blank Contamination
J=Estimated Value
NA= Not Analyzed
R= Data Rejected for Quality Reaso

TABLE 4.1-2
Selected Constituent Average Concentrations in Background Soil

	Mean	Median	Mode
Chromium	4134	4000	N/A
Lead	2168	2053	N/A
Nickel	8272	7110	N/A

Note:
Antimony and cadmium were not detected above the detection limit
Units in ug/Kg

4.2 SWMU GROUP A

SWMU Group A consists of SWMU 1: the South Landfill, SWMU 2: Sludge Lagoon, SWMU 3: Hydroblasting Station, and SWMU 4: Ash Lagoon. A description of each SWMU included in this group is provided below.

SWMU 1: SOUTH LANDFILL

SWMU 1 (South Landfill) is located at the south end of the plant and is approximately 4 acres in area. The landfill has been used to dispose of construction debris, process residues, polyurethane strands and chunks, solids, shipping crates, packing materials, refractory materials, crushed metal, asbestos insulation, polyol and polyether type material, scrap metal and miscellaneous 55 gallon drums. It is believed that process related residues (with the exception of iron oxide process residue) were not placed within the south landfill after 1980. Placement of iron oxide residue within the south landfill was discontinued in 1989. Previous test borings indicate up to 43 feet of fill has been placed in this former borrow area with process related wastes and construction debris spread in thin, discontinuous layers or intermixed with gravel. A soil layer, approximately 1 foot thick based on borings, was placed over the fill in 1992-1993.

SWMU 2: SLUDGE LAGOON

SWMU 2 is located beneath the northern portion of the South Landfill and consists of a former sludge lagoon. This SWMU, originally constructed to dispose of clarifier sludge, is approximately 30 feet deep and two acres in area. Beginning in 1971, wastewater treatment sludge was also disposed of in the lagoon. From 1979 through 1980, bulk fill material was placed directly over the sludge. This fill material was composed of the same material sent to the south landfill. Process related residues (with the exception of iron oxide process residue) disposal was discontinued in 1980. Placement of iron oxide residue SWMU 2 was discontinued in 1989. It is estimated that 25 feet of sludge and residue remain within the former lagoon, with 18 feet of process related residue mixed with soil as cover.

SWMU 3: HYDROBLASTING STATION

SWMU 3 is a 24 feet by 36 feet concrete pad that slopes to a below grade sump used to hold water and waste from washing operations. The area was used to clean equipment; removing solids that had accumulated during operation and movement of waste. The hydroblasting station was constructed within the confines of the South Landfill.

SWMU 4: ASH LAGOON

The former ash lagoon was constructed in 1973 by excavating and constructing a dike around the perimeter of the excavated area. No ash has been deposited in the lagoon since 1980. This SWMU consisted of an unlined, irregularly shaped impoundment covering approximately one acre. It is located over the former streambed of Beaver Run, adjacent to and immediately north of the south landfill (SWMU 1) and east of the sludge lagoon (SWMU 2). The depth and volume of the impoundment are not known. Ash slurry from the incineration of clarifier sludge in the multiple hearth sludge furnace was discharged to the lagoon with excess water transported back to the wastewater treatment area. SWMU 4 is partially filled with impounded rainwater. On the east and south sides, an earthen berm separates the ash lagoon from Beaver Run.

4.2.1 Summary: RFI Scope of Work

4.2.1.1 Phase 1 Scope of Work

The Phase 1 scope of work at this SWMU included review of historical photographs and drawings, a soil gas survey and an electromagnetic survey. The historical review of photographs and drawings has been incorporated into the SWMU descriptions and the depictions of the SWMU boundaries.

Soil Gas Survey

A soil gas survey (RFI Phase 1, Task 3) was conducted across the entire landfill area (SWMUs 1, 2, and 3) in the fall of 1996 (ICF Kaiser, 1997). Soil gas samples were collected at 38 locations in and around the landfill at depths of 2.5 and 7.5 ft-bgs. The locations are illustrated in Figures C-1 and C-2 of Appendix C. Soil gas samples were not collected in SWMU 4 due to the impracticality of collecting soil gas samples from materials with a high water content.

Total VOC concentrations in soil gas are considered to be elevated if found above 100 micrograms per liter (µg/L). This is considered to be a conservative cut-off value and was derived after several years of comparing actual analytical soil chemistry results with soil gas results. The soil gas survey results were not elevated over most of SWMU Group A. However, elevated soil gas concentrations were identified in a small area in the southwest corner of the landfill. Other isolated areas also indicated low concentrations (generally < 50 µg/L) of VOCs. Chloroform (maximum concentration of 3,800 µg/L), with minor amounts of chlorobenzene, benzene, hydrocarbons, and toluene, was the main constituent detected at the 2.5ft bgs interval in the small area in the southwest corner of the landfill. This small area of elevated VOCs shifted

east at the 7.5 ft-bgs interval with chloroform at a maximum concentration of 1360 μg/L. In general, results from the 7.5 ft-bgs interval displayed a more sporadic distribution of total VOC concentrations consisting primarily of hydrocarbons, freon 11, and freon 12. Elevated concentrations of benzene and chlorobenzene were also found along the eastern border of the landfill, between SWMUs 1 and 4.

Elevated total VOC concentrations were found at 7.5 ft-bgs in soil gas point SM002-SG003, located near the center of SWMU 2. There were no VOCs detected in the 2.5 ft-bgs interval for this point (Figure C-1 of Appendix C). The VOC concentrations at this location consist primarily of freon 12 (maximum concentration of 90 μg/L) and hydrocarbons (maximum concentration of 26 μg/L).

There were no elevated concentrations of total VOCs detected in 2.5 ft-bgs soil gas samples in the immediate vicinity of SWMU 3 (Figure C-1 of Appendix C). In the 7.5 ft-bgs samples immediately surrounding SWMU 3, there was only one soil gas point (SM003-SG002) with elevated total VOC concentrations (Figure C-2 of Appendix C). Results from soil gas point SM003-SG002 show chlorobenzene (maximum concentration of 700 μ/L) and hydrocarbons (maximum concentration of 148 μg/L) as major soil gas constituents, with relatively minor amounts of freon 12, freon 22, and benzene.

Electromagnetic Survey

An electromagnetic survey (RFI Phase 1, Task 2) was conducted at SWMUs 1, 2 and 3 in the fall of 1996 (ICF Kaiser, 1997). No electromagnetic survey was performed at SWMU 4. Both quadrature and in-phase measurements were made on a 10-foot grid spacing over SWMUs 1, 2 and 3 (Figures B-1 and B-2 in Appendix B). Interpretation of the terrain conductivity (quadrature phase) map for this SWMU group identified relative high and low conductivity areas within the landfill that are interpreted to represent variations in the type of wastes buried in the landfill.

In general, the highest conductivity measurements were located toward the center of the landfill and represent the bulk of buried material. High conductivity measurements are generally associated with high ionic and/or moisture content. However, metal objects may also produce relatively high conductivity readings. Based on the known disposal of both metal objects and iron oxide wastes, the high conductivity readings are to be expected and were confined to the mounded area where disposal was known to occur. This mounded area is inclusive of SWMUs 2 and 3 and similar conductivity measurements were associated with these areas, indicating that

waste disposal also occurred in these areas. Conductivity measurements generally decrease laterally away from the center of the mounded portion of landfill and reduce to relatively low conductivity values that are generally consistent with background readings.

One of the objectives of the EM survey was to identify the limits of SWMU 2; however, the materials in SWMU 1 are known to extend into SWMU 2. SWMU 2 is buried under up to 18 feet of material. The optimum depth of penetration for the instrument is 18-20 feet; therefore, identification of the former sludge lagoon is not possible using this method.

A high magnitude anomaly trends south from SWMU 3 towards Beaver Run Lagoon, along the periphery of the site. The anomaly likely indicates an accumulation of buried debris/wastes, a saturated zone leading from SWMU 3, or a reduction in the amount of cover material compared to other areas of the landfill. The anomaly corresponds to a topographically low area on the southwest side of the landfill.

4.2.1.2 Phase 2 Scope of Work

The scope of work for Phase 2 consisted of a soil characterization program. The boring locations were based on the findings of the Phase 1 investigation. A total of 18 test borings were completed in the SWMU Group A area. Seven of these test borings were installed at SWMU 1 for the purpose of collecting samples for laboratory and geotechnical analysis. Five of the SWMU 1 test borings were also used to confirm the limits of the landfill. Three test borings were installed at SWMU 2 for the purpose of collecting samples for laboratory and geotechnical analysis and to confirm the depth of the sludge lagoon. Two test borings were installed at SWMU 3 for the purpose of collecting samples for laboratory analysis. In addition, concrete chip samples were collected from stained areas on the concrete pad of the hydroblasting station. Concrete chip sampling is discussed in Section 6.1 of this report. Six test borings were installed at SWMU 4 for the purpose of collecting samples for laboratory and geotechnical analysis. Two of the borings were also used to estimate the depth of the ash lagoon while the remaining four were used to define the boundaries of the ash lagoon. A total of 59 analytical samples were collected from SWMU Group A. The soil boring locations are shown on Figure 4.2-1 and the analytical results are provided in Table 4.2-1. A summary of the soil descriptions is provided in Table 4.2-2.

SWMU 1 Soil Borings

Borings SM001-TB02, -TB03, -TB05, -TB06, and -TB07 were drilled to the bottom of the landfill, with depths ranging between 39 and 65 ft-bgs. The purpose of these borings was to characterize the nature and thickness of materials contained within the landfill. Samples were collected from each boring at the surface (0 to 1 or 0 to 2 ft-bgs), shallow subsurface (3 to 5 ft-bgs), and the 2-foot interval above groundwater. Additional samples were taken above intervals with perched water in the landfill. Borings where these samples were collected include SM001-TB02, -TB03, -TB04, -TB06, and -TB07. The sample collected from TB06 from the 20 to 22 ft-bgs interval indicated the presence of organic vapors at a concentration of >1,999 ppm just above a perched groundwater zone. The samples were submitted for analysis of SVOCs, metals, VOC and TOC.

Shelby Tube samples for geotechnical analysis were collected from twin borings drilled beside SM001-TB02 and SM001-TB04. Samples were taken from the 0 to 2 ft-bgs interval in SM001-TB02 and marked for sieve and hydrometer analysis. Samples from SM001-TB04 were taken from the 0 to 2, 3 to 5 and 11 to 13.5 ft-bgs intervals and marked for sieve, hydrometer, Atterberg limits, moisture content, specific gravity, and consolidation analyses. Results are included as Appendix E.

SWMU 2 Soil Borings

Borings SM002-TB01 and SM002-TB02 were drilled to the bottom of the sludge lagoon, with depths ranging between 46 and 49 ft-bgs. The purpose of these borings was to characterize the nature and thickness of materials contained within SWMU 2. Test boring SM002-TB03 was drilled to 27 ft-bgs and did not encounter any sludge or other refuse. Samples were collected from each boring at the surface (0 to 1 or 2 ft-bgs), shallow subsurface (3 to 5 ft-bgs), and the 2-foot interval above groundwater. Additional samples were taken in the 2-foot interval above perched groundwater, areas with elevated OVM readings, and areas with visual contamination, when present.

Additional samples were collected from SM002-TB01 and SM002-TB02 where field screening with the OVM indicated the presence of organic vapors at elevated concentrations. Samples were collected from SM002-TB01 in the 29 to 31 ft-bgs interval, the 31 to 33 ft-bgs interval, the 35 to 37 ft-bgs interval, the 37 to 39 ft-bgs interval, the 39 to 41 ft-bgs interval, and the 41 to 43 ft-bgs interval. OVM field screening readings ranged from 20 to 100+ppm in these intervals. One additional sample was collected from SM002-TB02 in the 47 to 49 ft-bgs interval due to

elevated OVM readings. The samples were submitted for analysis of SVOCs, metals, VOCs and TOC.

SWMU 3 Soil Borings

Borings SM003-TB01 and SM003-TB02 were drilled to characterize soils in the vicinity of SWMU 3. Test boring SM003-TB01 met refusal at 13 ft-bgs and SM003-TB02 was terminated at a depth of 14 feet. Samples were collected from each boring at the surface (0 to 1 or 2 ft-bgs) and the shallow subsurface (3 to 5 ft-bgs).

Additional samples were collected from SM003-TB01 where field screening with the OVM indicated the presence of organic vapors at elevated concentrations. Samples were collected from the 5 to 7 ft-bgs interval, the 7 to 9 ft-bgs interval, and the 11 to 13 ft-bgs interval. The samples were submitted for analysis of SVOCs, metals, VOCs and TOCs.

SWMU 4 Soil Borings

Borings SM004-TB01, SM004-TB02, and SM004-TB03 are located around the perimeter of the ash lagoon in order to define the boundaries. These test borings had depths ranging from 33 ft-bgs to 43 ft-bgs. Test boring SM004-TB04 is located at the north end of the ash lagoon, near the suspected located of the former outfall for the ash slurry and reached a total depth of 41 ft-bgs. Samples were collected from each boring at the surface (0 to 1 or 2 ft-bgs), shallow subsurface (3 to 5 ft-bgs), and the 2-foot interval above groundwater. Additional samples were taken above intervals with perched water, in areas with elevated OVM readings, and/or in areas with visual contamination, when present.

Test borings SM004-TB05 and SM004-TB06 were drilled to the bottom of the ash lagoon, with depths ranging between 7 and 14 ft-bgs to characterize the nature and thickness of materials contained within SWMU 4. Samples were collected from the bottom of the ash (4 to 6 ft-bgs in SM004-TB05 and 10 to 12 ft-bgs in SM004-TB06) and from the soil immediately below the ash (6 to 7 ft-bgs in SM004-TB05 and 12 to 14 ft-bgs in SM004-TB06).

Additional samples were collected from SM004-TB01 and SM004-TB02 where field screening with the OVM indicated the presence of organic vapors at elevated concentrations. Samples were collected from SM004-TB01 from the 19 to 21 ft-bgs interval (140 ppm), the 25 to 27 ft-bgs interval (90 ppm), the 27 to 29 ft-bgs interval (50 ppm), and from the 29 to 31 ft-bgs interval (20 ppm). Additional samples were also taken from SM004-TB02 from the 11 to 13 ft-bgs interval. OVM field screening readings ranged from 100 to 120 ppm in this interval. Two

samples were collected due to visual contamination. Samples were collected from SM004-TB01 in the 13 to 15 ft-bgs interval due to a light green silty material and from SM004-TB03 from the 17 to 19 ft-bgs interval due to the presence of a black organic, carbonaceous material. The samples were submitted for analysis of SVOCs, metals, VOCs, and TOC.

Shelby Tube samples for geotechnical analysis were collected from twin borings drilled beside SM004-TB01 and SM004-TB03. Samples were taken from 0 to 2 ft-bgs in SM004-TB01 and from 3 to 5 ft-bgs in SM004-TB03. Both samples were marked for sieve and hydrometer, and bulk density analyses as well.

4.2.1.3 Phase 3 Scope of Work

Prior to the initiation of the Phase 3 scope of work, SWMUs 1, 2, 3, and 4 were combined to form SWMU Group A. The Phase 3 scope of work consisted of a series of soil borings around the perimeter of the SWMU Group to delineate the limits of this SWMU Group. These borings were 4 feet deep and were placed every 40 feet around the perimeter of the SWMU Group. The initial borings (Figure 4.2-2) were placed at the break in slope at the base of the landfill. A total of 95 soil borings were installed and visually screened during the phase 3 activities. If waste material was encountered additional borings were completed as required in order to define the extent of the waste materials. Table 4.2-3 indicates which of the Phase 3 borings encountered waste.

4.2.2 Field Observations

SWMU 1 Soil Borings

The boring logs for SWMU 1 (Appendix D) indicate that subsurface materials encountered during Phase 2 consist of industrial wastes that include iron oxide fines, pieces of sheet metal, strands of polycarbonate material, paint chips, electrical wire, wood, glass, and ceramics mixed with silty clays, sand, and sandstone fragments. Test borings SM001-TB05 and SM001-TB07 encountered fill materials that consisted primarily of silty and sandy clays with very little waste. Test boring SM001-TB04 encountered only naturally occurring materials.

SWMU 2 Soil Borings

The boring logs for SWMU 2 indicate that subsurface materials encountered during Phase 2 consist of industrial wastes similar to those encountered in SWMU 1. These include iron oxide fines, pieces of sheet metal, plastic material, wood, and ceramics mixed with silty clays, sand,

and sandstone fragments. Test borings SM02-TB01 and SM002-TB02 also encountered several layers of black, brown and reddish brown sludge. Test boring SM002-TB03 encountered fill materials that consisted primarily of silty and sandy clays with no waste.

The top of a perched groundwater zone was encountered at 18 ft-bgs in test boring SM002-TB02. The interval of perched water within the sludge lagoon is approximately 7 feet thick, and appears to be separated from the alluvial aquifer by additional layers of sludge and a reddish brown silty to sandy clay. The groundwater surface for the alluvial aquifer is approximately 53 ft-bgs from the top of the sludge lagoon.

OVM screening detected the presence of organic vapors in low levels at SM002-TB01 (40 ppm at 31 to 33 ft-bgs, 20 ppm at both 39 to 41 and 41 to 43 ft-bgs). Test boring SM002-TB02 also detected low levels of organic vapors from 39 to 41 ft-bgs (13.3 ppm), from 41 to 43 ft-bgs (23 ppm), from 43 to 45 ft-bgs (60.1 ppm), and from 45 to 47 ft-bgs (86.6 ppm). Organic vapors were also detected at higher levels in sludge-bearing portions of test boring SM002-TB01. The interval from 29 to 31 ft-bgs had readings of 100 ppm, while the intervals 35 to 37 ft-bgs and 37 to 39 ft-bgs had >100 ppm on the OVM. Test boring SM002-TB02 encountered a black tar-like substance from 48 to 49 ft-bgs that registered 334.1 ppm on the OVM.

SWMU 3 Soil Borings

The boring logs for SWMU 3 indicate that subsurface materials encountered during Phase 2 consist of brown sands, silts and clayey silts with layers of industrial wastes similar to those encountered in SWMU 1. These include iron oxide fines, pieces of sheet metal, and plastic material mixed with silty clays, sand, and sandstone fragments. The test borings did not encounter perched groundwater nor the alluvial aquifer before the augers met with refusal at 13 to 14 ft-bgs.

SWMU 4 Soil Borings

The boring logs for SWMU 4 indicate that subsurface materials encountered during Phase 2 consist of brown to reddish brown silty clays with varying amounts of sandstone fragments and silty sands in all test borings except for SM004-TB05 and SM004-TB06. The latter two test borings, which are located within the ash lagoon, encountered brown sandy clays mixed with fine to coarse white to gray ash material. SM004-TB05 also encountered 4.5 feet of TDI residue. Test borings SM004-TB01 and SM004-TB03 also encountered thin sections of black organic or carbonaceous material at various depths.

SWMU Group A Delineation Borings

The SWMU Group A delineation samples indicated that the SWMU Group boundary should be modified as shown on Figure 4.2-2. The modified SWMU group boundary eliminated an area on the western side of the SWMU group. In addition to the lack of waste in confirmation borings in this area, the mapped area extended onto an elevated railroad siding that predates the industrial activities in this area, making disposal in this area extremely unlikely. Based on historical information, it appears that the original western boundary was determined by drawing a line halfway between an area found to contain waste east of the railroad track and a clean area west of the railroad track. The delineation borings also indicated that the SWMU boundary should be extended south to the edge of Beaver Run Lagoon. The waste materials encountered in these borings were similar to those described for SWMU 1 and generally consisted of less than 10 percent waste within a soil matrix.

4.2.3 Risk Assessment Results

Table 4.2-1 provides complete analytical results for SWMU Group A. Tables 4.2-4 and 4.2-5 present a summary of the constituents screened in soil at all depths respectively at SWMU Group A. The screening tables identify constituents with detections and/or detection limits exceeding either the Region III industrial and residential RBCs or the USEPA SSLs. The maximum detected concentrations, the maximum detection limits, the frequency of detection, and a comparison of the detected concentrations and detection limits to the screening criteria are also presented in Tables 4.2-4 and 4.2-5.

4.2.3.1 Comparison to Risk Based Criteria

As indicated on Table 4.2-4, there are eleven organics and one inorganic with maximum detected concentrations exceeding the Region III RBCs for industrial soil and forty-six organics with maximum detection limits exceeding the Region III RBCs for industrial soil. Additionally, there are seventeen organics and three inorganics with maximum detected concentrations exceeding the Region III RBCs for residential soil and seventy-three organics with maximum detection limits exceeding the Region III RBCs for residential soil.

USEPA SSLs were compared to maximum detected concentrations and maximum detection limits in soils at all depths in Table 4.2-5. As indicated on the table, there are nineteen organics and four inorganics with maximum detected concentrations exceeding the USEPA SSLs. Additionally, there are sixty-seven organics with maximum detection limits exceeding the

USEPA SSLs. All constituents whose maximum detected concentrations exceed the USEPA SSL were evaluated further in a comparison to site-specific SSLs. This comparison is discussed in Section 4.2.3.2.

All constituents whose maximum detected concentrations or maximum detection limit exceeds the Region III RBC for industrial soil were evaluated separately in the screening risk-assessments for the 0-2 feet and the 0-5 feet soil depth intervals. These screening assessments are discussed below and are presented in Tables 4.2-6 and 4.2-7 respectively.

As indicated on Table 4.2-6, no constituents were detected at concentrations exceeding the Region III RBCs for industrial soil at 0-2 feet in depth. Sixteen constituents had detection limits that exceeded the Region III RBCs for industrial soil at 0-2 feet in depth. As indicated on Table 4.2-7, one constituent was detected at concentrations exceeding the Region III RBC for industrial soil at 0-5 feet in depth. Sixteen constituents had detection limits that exceeded the Region III RBCs for industrial soil at 0-5 feet in depth.

All detection limits that exceeded respective Region III Industrial Soil RBCs were elevated, as identified in sample SM003-TB02-0001 for both 0-2 feet soil and 0-5 feet soil. One exception was the detection limit of 1,2-dibromoethane, which exceeded its respective Region III Industrial Soil RBC in sample SM001-TB05-0001 in 0-2 feet soil, and in sample SM001-TB07-0305 in 0-5 feet soil.

Constituents of Interest, defined as those constituents whose detected concentration exceeds the respective Region III Industrial soil RBC, include 2,4-toluenediamine (TDA). This constituent was identified as a COI for the 0-5 feet interval based on the maximum detection exceeding the respective Region III RBC. This COI is evaluated further in the risk assessment because it is related to processes at the Bayer New Martinsville facility even though it was detected in only one sample (SM004-TB02-0001) out of 26 samples collected at SWMU Group A in the 0-5 feet depth interval. No COIs were identified at the 0-2 feet depth interval for SWMU Group A.

Several constituents in both the 0-2 feet depth interval and the 0-5 feet depth interval had detection limits that exceeded their respective Region III RBC for industrial soil. These constituents were not identified as COIs and are not evaluated further in the risk assessment. Of these constituents, 1,2-dibromoethane, hexachlorobenzene, dibenz(a,h)anthracene, n-nitroso-dibutylamine, n-nitroso-di-n-propylamine, n-nitroso-dimethylamine, heptachlor, and benzidine

were not detected at the SWMU Group and they were not detected at any depth in any soils site-wide. These constituents are not related to any process at the Bayer New Martinsville facility (Bayer, 2000). The remaining constituents (1,4-dichlorobenzene, 3,3'-dichlorobenzidine, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, bis(2-chloroethyl)ether, indeno(1,2,3-cd)pyrene, and o,p-toluidine) whose detection limits exceed their respective Region III RBCs were not identified as COIs because their exceedances were based only on elevated detection limits. Discussion of these constituents is deferred to the uncertainty discussion in Appendix F-1, SWMU-specific Uncertainties.

4.2.3.2 Site-Specific Soil Screening Levels

The potential for leaching from soil to groundwater at this SWMU Group is further evaluated using site-specific SSLs.

Site-specific SSLs were derived for SWMUs 1, 2, 3, and 4 in Phase 2 using site-specific data. SSLs were calculated to further evaluate if the constituents detected within the unsaturated zone at levels exceeding the USEPA SSLs could potentially migrate to groundwater at concentrations of concern. Site-specific SSLs were calculated for each constituent whose maximum detection exceeded the USEPA SSL. The most conservative site-specific SSL for the individual SWMUs was assumed as the site-specific SSL for the entire SWMU Group. The maximum detected concentration of each constituent was then compared to the site-specific SWMU Group SSL. Site-specific SSLs for the SWMU Group are presented in Table 3.2-2.

Table 4.2-8 presents a comparison between the calculated SSLs and the maximum detected concentrations of those constituents that exceed the USEPA SSL in soils at all depths. Two inorganics and thirteen organics have maximum detected concentrations that exceed the site-specific SSLs.

4.2.3.3 Exposure Assessment

Exposure point concentrations (EPCs) used for SWMU Group A COIs are presented in Table 4.2-9. The EPC for 2,4-toluenediamine was evaluated as 11.90 mg/kg. The distribution was assumed to be lognormal as the data distribution was undefined. This concentration was calculated using the equations in Section 3.2.3 and appropriate exposure parameters for the receptors evaluated.

4.2.3.4 Exposure Risk Assessment Results

Table 4.2-10 provides a summary of the theoretical excess lifetime cancer risks for the construction worker receptor. Non-cancer hazard indices were not calculated as the COI identified is not considered to have non-carcinogenic effects. The total cancer risk for this receptor is 1.9×10^{-6} which is within the acceptable range of 1×10^{-4} to 1×10^{-6} for human health risk established by the USEPA. Given that these risks are acceptable, no refined receptor evaluation was necessary, as discussed in Section 3.2.1.

Risks for the industrial worker were not evaluated as no COIs were identified for the 0-2 feet depth interval.

4.2.4 Discussions with USEPA

Bayer discussed SWMUs 1, 2, 3, and 4 with USEPA during telephone conferences on May 5, 1999 and September 6, 2000. During the May 5, 1999 discussion, it was decided that further evaluation was needed to delineate the areal extent of waste materials in this group of SWMUs, which eventually lead to the Phase 3 scope of work.

The September 6, 2000 discussion occurred after the initial submission of the Final RFI report (IT, January 2000). During the discussions, USEPA agreed with the conclusions and recommendations for SWMU Group A as presented in Section 4.2.5: 1) no further action based on the human health exposure risk; 2) construction of an engineered soil cover to reduce infiltration; 3) inclusion in the facility's Institutional Control Plan; and 4) further evaluation as part of the site-wide groundwater CMS based on SSLs.

4.2.5 Conclusions and Recommendations

Based on the exposure risk assessment results, no further action is recommended for SWMU Group A. The analytical results for SWMU Group A indicate concentrations of constituents that exceed USEPA industrial RBCs. However, the concentrations exceeding the industrial RBCs occur at depth where direct soil contact will not occur. Site-specific evaluation indicated that the exposure risks for industrial worker and construction worker scenarios are within the acceptable range identified by USEPA. However, because constituents are present at depth which exceed the USEPA Region III industrial RBCs, Bayer will include the SWMU Group A area in the facility's institutional control plan to ensure worker safety while performing subsurface work. It

should be noted that the boundaries of SWMU Group A have been modified based on the results of the Phase 3 soil borings.

The maximum detected concentrations of two metals, eight SVOCs, and five VOCs exceeded their respective site-specific SSLs, indicating a potential for constituents to leach to groundwater at potentially unacceptable levels. Bayer performs quarterly groundwater monitoring in accordance with a USEPA-approved groundwater monitoring plan. The objective of the groundwater monitoring plan is to ensure that potentially impacted groundwater is captured by on-site recovery wells. The groundwater monitoring has been performed at the facility since 1986 and has consistently shown on-site capture of groundwater by the site's pumping wells.

Although no further action is recommended for SWMU Group A based on the exposure assessment, the potential for constituents to leach to groundwater is a potential concern. Therefore, a presumptive remedy of an engineered soil cover, including permeability requirements, is recommended for SWMU Group A to improve surface drainage and reduce the infiltration of precipitation. Additionally, Beaver Run will be rerouted further south thus eliminating potential future impact on surface water and potential hazards due to stream erosion.

BLE 4.2-1
S[illegible]tical Results for
SWMU Group A: SWMUs 1, 2, 3, and 4

SAMPLE ID	SM001-TB01-0001	SM001-TB01-0305	SM001-TB01-1618	SM001-TB02-0002	SM001-TB02-0305	SM001-TB02-0305D	SM001-TB02-1213	SM001-TB02-2426	SM001-TB03-0001	SM001-TB04-0001
SAMPLE DEPTH(ft)	0.00-1.00	3.00-5.00	16.00-18.00	0.00-2.00	3.0-5.0	3.0-5.0	12.0-13.0	24.0-26.0	0.00-1.00	0.00-1.00
SAMPLE LOCATION	TB01	TB01	TB01	TB02	TB02	TB02	TB02	TB02	TB03	TB04
SAMPLE DATE	6/23/1997	6/23/1997	6/24/1997	10/25/1996	10/25/1996	10/25/1996	10/25/1996	10/28/1996	6/25/1997	6/24/1997
PARAMETER										
Volatiles (µg/kg)										
1,1,1,2-Tetrachloroethane	< 272	< 278	< 332	<.1	<.1	<.1	<.2	<.1	< 289	< 280
1,1,1-Trichloroethane	< 142	< 144	< 173	<.2	<.2	<.2	<.4	<.2	< 150	< 145
1,1,2,2-Tetrachloroethane	< 142	< 144	< 173	<.1	<.1	<.1	<.2	<.1	< 150	< 145
1,1,2-Trichloroethane	< 272	< 278	< 332	<.1	<.1	<.1	<.2	<.1	< 289	< 280
1,1-Dichloroethane	< 142	< 144	< 173	<.1	<.1	<.1	<.2	<.1	< 150	< 145
1,1-Dichloroethene	< 272	< 278	< 332	<.1	<.1	<.1	<.2	<.1	< 289	< 280
1,1-Dichloropropene	< 142	< 144	< 173	<.2	<.2	<.2	<.4	<.2	< 150	< 145
1,2,3-Trichlorobenzene	< 142	< 144	< 173	<.1	<.1	<.1	<.2	<.1	< 150	< 145
1,2,3-Trichloropropane	< 142	< 144	< 173	<.2	<.2	<.2	<.4	<.2	< 150	< 145
1,2,4-Trichlorobenzene	< 142	< 144	< 173	<.1	<.1	<.1	<.2	<.1	< 150	< 145
1,2,4-Trimethylbenzene	< 142	< 144	< 173	<.1	<.1	<.1	<.2	<.1	< 150	< 145
1,2-Dibromo-3-chloropropane	< 272	< 278	< 332	<.1	<.6	<.6	<1.2	<.6	< 289	< 280
1,2-Dibromoethane	< 142	< 144	< 173	<.1	<.1	<.1	<.2	<.1	< 150	< 145
1,2-Dichlorobenzene	< 272	12200 K	1180	0.6	2.3	2.8	0.4	1	< 289	973
1,2-Dichloroethane	< 272	< 278	< 332	<.1	<.1	<.1	<.2	<.1	< 289	< 280
1,2-Dichloropropane	< 414	< 422	< 505	<.1	<.1	<.1	<.2	<.1	< 439	< 425
1,3,5-Trimethylbenzene	< 142	< 144	< 173	<.1	<.1	<.1	<.2	<.1	< 150	< 145
1,3-Dichlorobenzene	< 272	< 278	< 332	<.1	<.1	<.1	<.2	<.1	< 289	< 280
1,3-Dichloropropane	< 142	< 144	< 173	<.1	<.1	<.1	<.1	<.1	< 150	< 145
1,4-Dichlorobenzene	< 272	< 278	< 332	<.1	<.1	<.1	<.2	<.1	< 289	< 280
2,2-Dichloropropane	< 142	< 144	< 173	<.1	<.1	<.1	<.2	<.1	< 150	< 145
2-Butanone	< 959	< 977	< 1170	<.6	<.6	<.6	<1.2	<.6	< 1020	< 984
2-Chloroethyl Vinyl Ether	< 272	< 278	< 332	<.2	<.2	<.2	<.4	<.2	< 289	< 280
2-Chlorotoluene	< 142	< 144	< 173	<.1	<.1	<.1	<.2	<.1	< 150	< 145
2-Hexanone	< 414	< 422	< 505	<.6	<.6	<.6	<1.2	<.6	< 439	< 425
4-Chlorotoluene	< 142	< 144	< 173	<.1	<.1	<.1	<.2	<.1	< 150	< 145
4-Methyl-2-pentanone	< 414	< 422	< 505	<.6	<.6	<.6	<1.2	<.6	< 439	< 425
Acetone	< 959	< 977	< 1170	<.6	<.6	<.6	<1.2	<.6	< 1020	< 984
Acrolein	< 2720	< 2780	< 3320	<.6	<.6	<.6	<1.2	<.6	< 2890	< 2800
Acrylonitrile	< 1420	< 1440	< 1730	<.6	<.6	<.6	<1.2	<.6	< 1500	< 1450
Allyl Chloride	< 142	< 144	< 173	<.1	<.1	<.1	<.2	<.1	< 150	< 145
Benzene	< 142	< 144	< 173	1.8	<.2	<.2	<.4	<.2	< 150	< 145
Bromobenzene	< 142	< 144	< 173	<.1	<.1	<.1	<.2	<.1	< 150	< 145
Bromochloromethane	< 142	< 144	< 173	<.2	<.2	<.2	<.4	<.2	< 150	< 145
Bromodichloromethane	< 272	< 278	< 332	<.1	<.1	<.1	<.2	<.1	< 289	< 280
Bromoform	< 142	< 144	< 173	<.1	<.1	<.1	<.2	<.1	< 150	< 145
Bromomethane	< 414	< 422	< 505	<.1	<.1	<.1	<.2	<.1	< 439	< 425
Carbon Disulfide	< 414	< 422	< 505	<.1	<.1	<.1	<.2	<.1	< 439	< 425
Carbon Tetrachloride	< 142	< 144	< 173	<.1	<.1	<.1	<.2	<.1	< 150	< 145
Chlorobenzene	392 J	144000 K	55900	1.8	3.3	4.1	5.9	2.6	< 150	694 J
Chloroethane	< 414	< 422	< 505	<.1	<.1	<.1	<.2	<.1	< 439	< 425
Chloroform	< 142	< 144	< 173	<.1	<.1	<.1	<.1	<.1	< 150	< 145

TABLE 4.2-1
Soil Analytical Results for
SWMU Group A: SWMUs 1, 2, 3, and 4

SAMPLE ID	SM001-TB01-0001	SM001-TB01-0305	SM001-TB01-1618	SM001-TB02-0002	SM001-TB02-0305	SM001-TB02-0305D	SM001-TB02-1213	SM001-TB02-2426	SM001-TB03-0001	SM001-TB04-0001
SAMPLE DEPTH(ft)	0.00-1.00	3.00-5.00	16.00-18.00	0.00-2.00	3.0-5.0	3.0-5.0	12.0-13.0	24.0-26.0	0.00-1.00	0.00-1.00
SAMPLE LOCATION	TB01	TB01	TB01	TB02	TB02	TB02	TB02	TB02	TB03	TB04
SAMPLE DATE	6/23/1997	6/23/1997	6/24/1997	10/25/1996	10/25/1996	10/25/1996	10/25/1996	10/28/1996	6/25/1997	6/24/1997
PARAMETER										
Chloromethane	< 272	< 278	< 332	<.2	<.2	<.2	<.4	<.2	< 289	< 280
Dibromochloromethane	< 142	< 144	< 173	<.1	<.1	<.1	<.2	<.1	< 150	< 145
Dibromomethane	< 142	< 144	< 173	<.2	<.2	<.2	<.4	<.2	< 150	< 145
Dichlorodifluoromethane	< 272	< 278	< 332	<.1	<.1	<.1	<.2	<.1	< 289	< 280
Ethyl Methacrylate	< 142	< 144	< 173	<.2	<.2	<.2	<.4	<.2	< 150	< 145
Ethylbenzene	< 142	4550 K	< 173	<.1	<.1	<.1	<.2	<.1	< 150	< 145
Freon 113	< 272	< 278	< 332	NA	NA	NA	NA	NA	312 JB	< 280
Freon 141b	< 142	< 144	< 173	NA	NA	NA	NA	NA	< 150	< 145
Hexachlorobutadiene	< 272	< 278	< 332	<.1	<.1	<.1	<.2	<.1	< 289	< 280
Isopropylbenzene	< 414	< 422	< 505	<.1	<.1	<.1	<.2	<.1	< 439	< 425
Methyl Iodide	< 414	< 422	< 505	<.1	<.1	<.1	<.2	<.1	< 439	< 425
Methylene Chloride	< 272	< 278	< 332	0.5	<.2	<.2	<.3	<.2	< 289	< 280
Naphthalene	< 142	< 144	< 173	<.6	<.6	<.6	<1.2	<.6	< 150	< 145
Styrene	< 142	< 144	< 173	<.1	<.1	<.1	<.2	<.1	< 150	< 145
Tetrachloroethene	< 142	< 144	< 173	<.1	<.1	<.1	<.2	<.1	< 150	< 145
Toluene	< 142	700 K	559 J	1.8	<.1	<.1	<.2	<.1	< 150	< 145
Trichloroethene	< 142	< 144	< 173	0.1	<.1	<.1	<.1	<.1	< 150	< 145
Trichlorofluoromethane	< 272	< 278	< 332	<.1	<.1	<.1	<.2	<.1	< 289	< 280
Vinyl Acetate	< 414	< 422	< 505	<.6	<.6	<.6	<1.2	<.6	< 439	< 425
Vinyl Chloride	< 272	< 278	< 332	<.1	<.1	<.1	<.2	<.1	< 289	< 280
cis-1,2-Dichloroethene	< 272	< 278	< 332	<.1	<.1	<.1	<.2	<.1	< 289	< 280
cis-1,3-Dichloropropene	< 142	< 144	< 173	<.1	<.1	<.1	<.2	<.1	< 150	< 145
m+p-Xylene	< 142	23300 K	< 173	<.1	<.1	<.1	<.2	<.1	< 150	< 145
n-Butylbenzene	< 142	< 144	< 173	<.1	<.1	<.1	<.2	<.1	< 150	< 145
n-Propylbenzene	< 142	< 144	< 173	<.1	<.1	<.1	<.2	<.1	< 150	< 145
o-Xylene	< 142	9110 K	< 173	<.1	<.1	<.1	<.2	<.1	< 150	< 145
p-Isopropyltoluene	< 142	< 144	< 173	<.1	<.1	<.1	<.2	<.1	< 150	< 145
sec-Butylbenzene	< 142	< 144	< 173	<.1	<.1	<.1	<.2	<.1	< 150	< 145
tert-Butylbenzene	< 142	< 144	< 173	<.1	<.1	<.1	<.2	<.1	< 150	< 145
trans-1,2-Dichloroethene	< 272	< 278	< 332	<.1	<.1	<.1	<.1	<.1	< 289	< 280
trans-1,3-Dichloropropene	< 142	< 144	< 173	<.1	<.1	<.1	<.2	<.1	< 150	< 145
trans-1,4-Dichloro-2-butene	< 1420	< 1440	< 1730	<.6	<.6	<.1	<1.2	<.6	< 1500	< 1450
Semivolatiles (µg/kg)										
1,2,3-Trichlorobenzene	R	R	< 3190	<.2	<.2	<.2	<.2	<2.0	< 550	R
1,2,4,5-Tetrachlorobenzene	R	R	< 3190	<.2	<.2	<.2	<.2	<2.0	< 550	R
1,2,4-Trichlorobenzene	R	R	< 2660	<.2	<.2	<.2	<.2	<2.0	< 460	R
1,2-Dichlorobenzene	R	19900 J	7770	0.3	5.7	5	1	2.3	< 460	136000 J
1,3-Dichlorobenzene	R	R	< 2660	<.2	<.2	<.2	<.2	<1.5	< 460	R
1,4-Dichlorobenzene	R	R	< 2660	<.1	<.1	<.1	<.1	<1.0	< 460	R
1-Chloronaphthalene	R	R	< 6650	<.5	<.5	<.5	<.5	<5.0	< 1160	R
1-Methylnaphthalene	R	R	< 2660	<.2	<.2	<.2	<.2	<2.0	< 460	R
1-Naphthylamine	R	R	< 9040	<.2	<.2	<.2	<.2	<2.0	< 1570	R
2,3,4,6-Tetrachlorophenol	R	R	< 5320	<.2	<.2	<.2	<.2	<2.0	< 920	R
2,3-Dichloroaniline	R	R	< 2660	<.2	<.2	<.2	<.2	<2.0	< 460	R
2,4,5-Trichlorophenol	R	R	< 2660	<.2	<.2	<.2	<.2	<2.0	< 460	R
2,4,6-Trichlorophenol	R	R	< 2660	<.1	<.1	<.1	<.1	<1.0	< 460	R
2,4-Dichlorophenol	R	R	< 2660	<.2	<.1	<.1	<.1	<.6	< 460	R
2,4-Dimethylphenol	R	R	< 2660	<.1	<.2	<.2	<.2	<1.8	< 460	R
2,4-Dinitrophenol	R	R	< 16500	<3.2	<3.2	<3.2	<3.2	<32.0	< 2870	R
2,4-Dinitrotoluene	R	R	< 2660	<.2	<.2	<.2	<.2	<1.5	< 460	R
2,4-Toluenediamine	R	R	< 13300	<1.0	<1.0	<1.0	<1.0	<10.0	< 2310	R
2,6-Dichlorophenol	R	R	< 2660	<.2	<.2	<.2	<.2	<1.6	< 460	R
2,6-Dinitrotoluene	R	R	< 2660	<.2	<.2	<.2	<.2	<1.5	< 460	R
2-Chloronaphthalene	R	R	< 2660	<.2	<.2	<.2	<.2	<2.0	< 460	R

BLE 4.2-1
S... ...rtical Results for
SWMU Group A: SWMUs 1, 2, 3, and 4

SAMPLE ID	SM001-TB01-0001	SM001-TB01-0305	SM001-TB01-1618	SM001-TB02-0002	SM001-TB02-0305	SM001-TB02-0305D	SM001-TB02-1213	SM001-TB02-2426	SM001-TB03-0001	SM001-TB04-0001
SAMPLE DEPTH(ft)	0.00-1.00	3.00-5.00	16.00-18.00	0.00-2.00	3.0-5.0	3.0-5.0	12.0-13.0	24.0-26.0	0.00-1.00	0.00-1.00
SAMPLE LOCATION	TB01	TB01	TB01	TB02	TB02	TB02	TB02	TB02	TB03	TB04
SAMPLE DATE	6/23/1997	6/23/1997	6/24/1997	10/25/1996	10/25/1996	10/25/1996	10/25/1996	10/28/1996	6/25/1997	6/24/1997
PARAMETER										
2-Chlorophenol	R	R	< 2660	<.2	<.2	<.2	<.2	<1.6	< 460	R
2-Methylnaphthalene	R	R	< 2660	<.2	<.2	<.2	<.2	<2.0	< 460	R
2-Naphthylamine	R	R	< 10100	<.2	<.2	<.2	<.2	<2.0	< 1760	R
2-Nitroaniline	R	R	< 3190	<.2	<.2	<.2	<.2	<2.0	< 550	R
2-Nitrodiphenylamine	R	R	< 2660	<.2	<.2	<.2	<.2	<2.0	< 460	R
2-Nitrophenol	R	R	< 2660	<.2	<.2	<.2	<.2	<2.0	< 460	R
2-Picoline	R	R	< 9840	<.2	<.2	<.2	<.2	<2.0	< 1710	R
3,3'-Dichlorobenzidine	R	R	< 16200	<.1	<.1	<.1	<.1	<1.0	< 2820	R
3-Methylcholanthrene	R	R	< 2660	<.2	<.2	<.2	<.2	<2.0	< 460	R
3-Nitroaniline	R	R	< 2660	<.1	<.1	<.1	<.1	<1.0	< 460	R
4,4' Methylenedianiline	R	R	< 23400	<.2	<.2	<.2	<.2	<2.0	< 4070	R
4,6-Dinitro-o-cresol	R	R	< 2660	<.2	<.2	<.2	<.2	<2.0	< 460	R
4-Aminobiphenyl	R	R	< 2660	<.2	<.2	<.2	<.2	<2.0	< 460	R
4-Aminodiphenylamine	R	R	< 6650	<.2	<.2	<.2	<.2	<2.0	< 1160	R
4-Bromophenyl phenyl ether	R	R	< 2660	<.2	<.2	<.2	<.2	<1.5	< 460	R
4-Chloro-m-cresol	R	R	< 2660	<.2	<.2	<.2	<.2	<2.0	< 460	R
4-Chlorophenylphenyl ether	R	R	< 2660	<.1	<.1	<.1	<.1	<1.0	< 460	R
4-Nitroaniline	R	R	< 2660	<.2	<.2	<.2	<.2	<2.0	< 460	R
4-Nitrophenol	R	R	< 2660 J	<.2	<.2	<.2	<.2	<1.8	< 460 J	R
5-Nitro-o-toluidine	R	R	< 2660	<.2	<.2	<.2	<.2	<2.0	< 460	R
7,12-dimethylbenz[a]anthracene	R	R	< 2660	<.2	<.2	<.2	<.2	<2.0	< 460	R
Acenaphthene	R	R	< 2660	<.1	<.1	<.1	<.1	<1.0	< 460	R
Acenaphthylene	R	R	< 2660	<.1	<.1	<.1	<.1	<1.0	< 460	R
Acetophenone	R	R	< 3460	<.2	<.2	<.2	<.2	<2.0	< 600	R
Aniline	R	R	9440	<.2	<.2	<.2	0.6	2.7	< 650	R
Anthracene	R	R	< 2660	<.1	<.1	<.1	<.1	<1.0	< 460	R
Azobenzene	R	R	< 3190	<.2	<.2	<.2	<.2	<2.0	< 550	R
Benzidine	R	R	< 42600	<3.2	<3.2	<3.2	<3.2	<32.0	< 7400	R
Benzo(a)anthracene	R	R	< 3460	<.2	<.2	<.2	<.2	<2.0	< 600	R
Benzo(a)pyrene	R	R	< 2660	<.1	<.1	<.1	<.1	<1.0	< 460	R
Benzo(b)fluoranthene	R	R	< 2660	<.1	<.1	<.1	<.1	<1.0	< 460	R
Benzo(ghi)perylene	R	R	< 2930	<.2	<.2	<.2	<.2	<2.0	< 510	R
Benzo(k)fluoranthene	R	R	< 2660	<.2	<.2	<.2	<.2	<2.0	< 460	R
Benzoic Acid	R	R	< 2660	0.3	0.5	0.5	<.2	<2.0	< 460	R
Benzyl Alcohol	R	R	< 2660	<.2	<.1	<.1	<.1	<2.0	< 460	R
Benzyl butyl phthalate	R	R	< 2660	<.2	<.2	<.2	<.2	<2.0	< 460	R
Bis(2-chloroethoxymethane)	R	R	< 2660	<.2	<.2	<.2	<.2	<2.0	< 460	R
Bis(2-chloroethyl)ether	R	R	< 2660	<.2	<.2	<.2	<.2	<1.5	< 460	R
Bis(2-chloroisopropyl)ether	R	R	< 2660	<.2	<.2	<.2	<.2	<2.0	< 460	R
Bis(2-ethylhexyl) phthalate	R	R	< 3190	1.2	.3 B	1.5	.6 B	<2.0	< 550	R
Bisphenol A	R	7310 J	145000	<.3	<.3	0.8	4.1	12	< 830	R
Carbazole	R	R	< 13300	NA	NA	NA	NA	NA	< 2310	R
Chrysene	R	R	< 2660	<.2	<.2	<.2	<.2	<2.0	< 460	R
Cyclohexanone	R	R	< 2660	<.2	<.2	<.2	<.2	<2.0	< 460	R
Di-n-butyl phthalate	R	R	< 2660	10.4 B	7.7 B	8.3 B	7.9 B	13.6 B	660 B	R
Di-n-octyl phthalate	R	R	< 2660	<.1	<.1	<.1	<.1	<1.0	< 460	R
Dibenzo(a,h)anthracene	R	R	< 2660	<.2	<.2	<.2	<.2	<1.5	< 460	R
Dibenzofuran	R	R	< 2660	<.2	<.2	<.2	<.2	<2.0	< 460	R
Diethyl Phthalate	R	R	< 2660	0.2	0.2	0.1	.1 B	<2.0	< 460	R
Dimethylphthalate	R	R	< 2660	<.1	<.1	<.1	<.1	<1.0	< 460	R
Diphenylamine	NA	NA	NA	<.2	<.2	<.2	0.2	<.2	NA	NA
Ethyl Methane Sulfonate	R	R	< 4790	<.5	<.5	<.5	<.5	<5.0	< 830	R
Fluoranthene	R	R	< 2660	<.2	<.2	<.2	<.2	<2.0	< 460	R
Fluorene	R	R	< 2660 J	<.1	<.1	<.1	<.1	<1.0	< 460 J	R
Heptachlor	R	R	< 2930	NA	NA	NA	NA	NA	< 510	R
Hexachlorobenzene	R	R	< 2660	<.2	<.2	<.2	<.2	<1.5	< 460	R
Hexachlorobutadiene	R	R	< 2660	<.1	<.1	<.1	<.1	<1.0	< 460	R

TABLE 4.2-1
Soil Analytical Results for
SWMU Group A: SWMUs 1, 2, 3, and 4

SAMPLE ID	SM001-TB01-0001	SM001-TB01-0305	SM001-TB01-1618	SM001-TB02-0002	SM001-TB02-0305	SM001-TB02-0305D	SM001-TB02-1213	SM001-TB02-2426	SM001-TB03-0001	SM001-TB04-0001
SAMPLE DEPTH(ft)	0.00-1.00	3.00-5.00	16.00-18.00	0.00-2.00	3.0-5.0	3.0-5.0	12.0-13.0	24.0-26.0	0.00-1.00	0.00-1.00
SAMPLE LOCATION	TB01	TB01	TB01	TB02	TB02	TB02	TB02	TB02	TB03	TB04
SAMPLE DATE	6/23/1997	6/23/1997	6/24/1997	10/25/1996	10/25/1996	10/25/1996	10/25/1996	10/28/1996	6/25/1997	6/24/1997
PARAMETER										
Hexachlorocyclopentadiene	R	R	< 2660	<.2	<.2	<.2	<.2	<2.0	< 460	R
Hexachloroethane	R	R	< 2660	<.2	<.2	<.2	<.2	<1.5	< 460	R
Indeno(1,2,3-cd)pyrene	R	R	< 2660	<.2	<.2	<.2	<.2	<2.0	< 460	R
Isophorone	R	R	< 2660	<.2	<.2	<.2	<.2	<2.0	< 460	R
Methyl methane sulfonate	R	R	< 2660	<.2	<.2	<.2	<.2	<2.0	< 460	R
N-Nitrosodibutylamine	R	R	< 2660	<.2	<.2	<.2	<.2	<2.0	< 460	R
N-Nitrosodimethylamine	R	R	< 2660 J	<.2	<.2	<.2	<.2	<2.0	< 460 J	R
N-Nitrosodiphenylamine	R	R	< 3460	<.2	<.2	<.2	0.2	<1.5	< 600	R
N-Nitrosodipropylamine	R	R	< 2660	<.2	<.2	<.2	<.2	<1.5	< 460	R
N-Nitrosopiperidine	R	R	< 2660	<.2	<.2	<.2	<.2	<2.0	< 460	R
Naphthalene	R	R	< 2660	<.2	<.2	<.2	<.2	<1.5	< 460	R
Nitrobenzene	R	R	< 2660	<.1	<.1	<.1	<.1	<1.0	< 460	R
Pentachlorobenzene	R	R	< 4520	<.2	<.2	<.2	<.2	<2.0	< 790	R
Pentachloronitrobenzene	R	R	< 2660	<.2	<.2	<.2	<.2	<2.0	< 460	R
Pentachlorophenol	R	R	< 2660	<.1	<.1	<.1	<.1	<.9	< 460	R
Phenacetin	R	R	< 2660	<.2	<.2	<.2	<.2	<2.0	< 460	R
Phenanthrene	R	R	< 2660	<.2	<.2	<.2	<.2	<2.0	< 460	R
Phenol	R	R	< 1600	<.1	<.1	<.1	<.1	<.9	< 280	R
Pyrene	R	R	< 2660	<.1	<.1	<.1	<.1	<1.0	< 460	R
Pyridine	R	R	< 2930	<.2	<.2	<.2	<.2	<2.0	< 510	R
Trimethylphosphate	R	R	< 2660	<.2	<.2	<.2	<.2	<2.0	< 460	R
Triphenylphosphate	R	R	< 13300	NA	NA	NA	NA	NA	< 2310	R
m,p-Cresol	R	R	< 3990	<.5	<.5	<.5	<.5	<5.0	< 690	R
m-Nitrotoluene	R	R	< 2660	<.2	<.2	<.2	<.2	<2.0	< 460	R
m-Toluidine	R	R	< 5320	<.5	<.5	<.5	<.5	<5.0	< 920	R
o,p-Toluidine	R	R	< 13600	<.5	<.5	<.5	<.5	<5.0	< 2360	R
o-Cresol	R	R	< 2660	<.2	<.2	<.2	<.2	<2.0	< 460	R
o-Nitrotoluene	R	R	< 2660	<.2	<.2	<.2	<.2	<2.0	< 460	R
p-Chloroaniline	R	7730 J	51100	<.2	<.2	<.2	<.2	<2.0	< 460	R
p-Dimethylaminoazobenzene	R	R	< 2660	<.2	<.2	<.2	<.2	<2.0	< 460	R
p-Nitrotoluene	R	R	< 3990	<.2	<.2	<.2	<.2	<2.0	< 690	R
Metals (µg/kg)										
Antimony	< 436	< 444	< 532	<0.100	<0.100	<0.100	<0.100	<0.100	< 462	< 447
Cadmium	960	1090	1500	0.469	1.49	1.64	<0.200	0.588	1090	5310
Chromium	94400	35000	15700	470	734	715	3.09	109	28200	106000
Lead	19600	27400	28700	4230	34200	38100	<2000	11200	52300	47200
Nickel	90200	42500	42600	105	293	285	3.4	77.3	38800	718000
Miscellaneous (µg/kg)										
Percent Moisture	8.2 %	9.9 %	25 %	NA	NA	NA	NA	NA	14 %	11 %
Total Organic Carbon	NA	NA	NA	NA	NA	NA	NA	NA	NA	15900000 J
pH in Water (Solid Sample)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
NA=Not analyzed
B=Blank contamination
J=Estimated concentration
K=Estimated concentration (high)
R=Rejected data
U=Nondetect at reported limit
<=Nondetect at reported limit

BLE 4.2-1
S[illegible]tical Results for
SWMU Group A: SWMUs 1, 2, 3, and 4

SAMPLE ID	SM001-TB04-0305	SM001-TB04-0911	SM001-TB05-0001	SM001-TB05-0305	SM001-TB06-0002	SM001-TB06-0305	SM001-TB06-2022	SM001-TB07-0002	SM001-TB07-0305	SM001-TB07-0709
SAMPLE DEPTH(ft)	3.00-5.00	9.00-11.00	0.00-1.00	3.00-5.00	0.0-2.0	3.0-5.0	20.0-22.0	0.0-2.0	3.0-5.0	7.0-9.0
SAMPLE LOCATION	TB04	TB04	TB05	TB05	TB06	TB06	TB06	TB07	TB07	TB07
SAMPLE DATE	6/24/1997	6/24/1997	6/30/1997	6/30/1997	10/29/1996	10/29/1996	10/30/1996	11/1/1996	11/1/1996	11/1/1996
PARAMETER										
Volatiles (µg/kg)										
1,1,1,2-Tetrachloroethane	< 288	< 301	< 305	< 311	<.1	<.1	<960.0	<.1	<.2	<.1
1,1,1-Trichloroethane	< 150	< 156	< 159	< 162	<.2	<.2	<1440.0	<.2	<.4	<.2
1,1,2,2-Tetrachloroethane	< 150	< 156	< 159	< 162	<.1	<.1	<960.0	<.1	<.2	<.1
1,1,2-Trichloroethane	< 288	< 301	< 305	< 311	<.1	<.1	<960.0	<.1	<.2	<.1
1,1-Dichloroethane	< 150	< 156	< 159	< 162	<.1	<.1	<960.0	<.1	<.2	<.1
1,1-Dichloroethene	< 288	< 301	< 305	< 311	<.1	<.1	<960.0	<.1	<.2	<.1
1,1-Dichloropropene	< 150	< 156	< 159	< 162	<.2	<.2	<1440.0	<.2	<.4	<.2
1,2,3-Trichlorobenzene	< 150	< 156	< 159	< 162	<.1	<.1	<960.0	<.1	<.2	<.1
1,2,3-Trichloropropane	< 150	< 156	< 159	< 162	<.2	<.2	<1440.0	<.2	<.4	<.2
1,2,4-Trichlorobenzene	< 150	< 156	< 159	< 162	<.1	<.1	<960.0	<.1	0.6	<.1
1,2,4-Trimethylbenzene	< 150	< 156	< 159	< 162	<.1	<.1	<960.0	<.1	<.2	<.1
1,2-Dibromo-3-chloropropane	< 288	< 301	< 305	< 311	<.6	<.6	<4800.0	<.6	<1.2	<.6
1,2-Dibromoethane	< 150	< 156	< 159	< 162	<.1	<.1	<960.0	<.1	<.2	<.1
1,2-Dichlorobenzene	7370	< 301	< 305	< 311	<.1	1.6	7760	<.1	3.3	0.1
1,2-Dichloroethane	< 288	< 301	< 305	< 311	<.1	<.1	<960.0	<.1	<.2	<.1
1,2-Dichloropropane	< 438	< 457	< 463	< 473	<.1	<.1	<960.0	<.1	<.2	<.1
1,3,5-Trimethylbenzene	< 150	< 156	< 159	< 162	<.1	<.1	<960.0	<.1	<.2	<.1
1,3-Dichlorobenzene	< 288	< 301	< 305	< 311	<.1	<.1	<960.0	<.1	<.2	<.1
1,3-Dichloropropane	< 150	< 156	< 159	< 162	<.1	<.1	<480.0	<.1	<.1	<.1
1,4-Dichlorobenzene	< 288	< 301	< 305	< 311	<.1	<.1	<960.0	<.1	0.7	<.1
2,2-Dichloropropane	< 150	< 156	< 159	< 162	<.1	<.1	<960.0	<.1	<.2	<.1
2-Butanone	< 1010	< 1060	< 1070	< 1090	<.6	<.6	<4800.0	<.6	<1.2	<.6
2-Chloroethyl Vinyl Ether	< 288	< 301	< 305	< 311	<.2	<.2	<1440.0	<.2	<.4	<.2
2-Chlorotoluene	< 150	< 156	< 159	< 162	<.1	<.1	<960.0	<.1	<.2	<.1
2-Hexanone	< 438	< 457	< 463	< 473	<.6	<.6	<4800.0	<.6	<1.2	<.6
4-Chlorotoluene	< 150	< 156	< 159	< 162	<.1	<.1	<960.0	<.1	<.2	<.1
4-Methyl-2-pentanone	< 438	< 457	< 463	< 473	<.6	<.6	<4800.0	<.6	<1.2	<.6
Acetone	< 1010	< 1060	< 1070	< 1090	<.6	<.6	<4800.0	<.6	<1.2	<.6
Acrolein	< 2880	< 3010	< 3050	< 3110	<.6	<.6	<4800.0	<.6	<1.2	<.6
Acrylonitrile	< 1500	< 1560	< 1590	< 1620	<.6	<.6	<4800.0	<.6	<1.2	<.6
Allyl Chloride	< 150	< 156	< 159	< 162	<.1	<.1	<960.0	<.1	<.2	<.1
Benzene	242 J	< 156	< 159	< 162	<.2	<.2	<1440.0	<.2	<.4	<.2
Bromobenzene	< 150	< 156	< 159	< 162	<.1	<.1	<960.0	<.1	<.2	<.1
Bromochloromethane	< 150	< 156	< 159	< 162	<.2	<.2	<1440.0	<.2	<.4	<.2
Bromodichloromethane	< 288	< 301	< 305	< 311	<.1	<.1	<960.0	<.1	<.2	<.1
Bromoform	< 150	< 156	< 159	< 162	<.1	<.1	<960.0	<.1	<.2	<.1
Bromomethane	< 438	< 457	< 463	< 473	<.1	<.1	<960.0	<.1	<.2	<.1
Carbon Disulfide	< 438	< 457	< 463	< 473	<.1	<.1	<960.0	<.1	<.2	<.1
Carbon Tetrachloride	< 150	< 156	< 159	< 162	<.1	<.1	<960.0	<.1	<.2	<.1
Chlorobenzene	7600	229 J	< 159	< 162	<.1	0.3	37800	0.2	0.5	0.2
Chloroethane	< 438	< 457	< 463	< 473	<.1	<.1	<960.0	<.1	<.2	<.1
Chloroform	< 150	< 156	< 159	< 162	<.1	<.1	<480.0	<.1	<.1	<.1

TABLE 4.2-1
Soil Analytical Results for
SWMU Group A: SWMUs 1, 2, 3, and 4

SAMPLE ID	SM001-TB04-0305	SM001-TB04-0911	SM001-TB05-0001	SM001-TB05-0305	SM001-TB06-0002	SM001-TB06-0305	SM001-TB06-2022	SM001-TB07-0002	SM001-TB07-0305	SM001-TB07-0709
SAMPLE DEPTH(ft)	3.00-5.00	9.00-11.00	0.00-1.00	3.00-5.00	0.0-2.0	3.0-5.0	20.0-22.0	0.0-2.0	3.0-5.0	7.0-9.0
SAMPLE LOCATION	TB04	TB04	TB05	TB05	TB06	TB06	TB06	TB07	TB07	TB07
SAMPLE DATE	6/24/1997	6/24/1997	6/30/1997	6/30/1997	10/29/1996	10/29/1996	10/30/1996	11/1/1996	11/1/1996	11/1/1996
PARAMETER										
Chloromethane	< 288	< 301	< 305	< 311	<.2	<.2	<1440.0	<.2	<.4	<.2
Dibromochloromethane	< 150	< 156	< 159	< 162	<.1	<.1	<960.0	<.1	<.2	<.1
Dibromomethane	< 150	< 156	< 159	< 162	<.2	<.2	<1440.0	<.2	<.4	<.2
Dichlorodifluoromethane	< 288	< 301	< 305	< 311	<.1	<.1	<960.0	<.1	<.2	<.1
Ethyl Methacrylate	< 150	< 156	< 159	< 162	<.2	<.2	<1440.0	<.2	<.4	<.2
Ethylbenzene	< 150	< 156	< 159	< 162	<.1	<.1	<960.0	<.1	<.2	<.1
Freon 113	< 288	< 301	1100 J	< 311	NA	NA	NA	NA	NA	NA
Freon 141b	< 150	< 156	< 159	< 162	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	< 288	< 301	< 305	< 311	<.1	<.1	<960.0	<.1	<.2	<.1
Isopropylbenzene	< 438	< 457	< 463	< 473	<.1	<.1	<960.0	<.1	<.2	<.1
Methyl Iodide	< 438	< 457	< 463	< 473	<.1	<.1	<960.0	<.1	<.2	<.1
Methylene Chloride	< 288	< 301	< 305	< 311	<.2	<.2	1910	<.2	<.3	<.2
Naphthalene	< 150	< 156	< 159	< 162	<.6	<.6	<4800.0	<.6	<1.2	<.6
Styrene	< 150	< 156	< 159	< 162	<.1	<.1	<960.0	<.1	<.2	<.1
Tetrachloroethene	< 150	< 156	< 159	< 162	<.1	<.1	<960.0	<.1	<.2	<.1
Toluene	242 J	< 156	< 159	< 162	<.1	<.1	1920	<.1	<.2	<.1
Trichloroethene	< 150	< 156	< 159	< 162	<.1	<.1	24900	.3 B	.3 B	.2 B
Trichlorofluoromethane	< 288	< 301	< 305	< 311	<.1	<.1	<960.0	<.1	<.2	<.1
Vinyl Acetate	< 438	< 457	< 463	< 473	<.6	<.6	<4800.0	<.6	<1.2	<.6
Vinyl Chloride	< 288	< 301	< 305	< 311	<.1	<.1	<960.0	<.1	<.2	<.1
cis-1,2-Dichloroethene	< 288	< 301	< 305	< 311	<.1	<.1	<960.0	<.1	<.2	<.1
cis-1,3-Dichloropropene	< 150	< 156	< 159	< 162	<.1	<.1	<960.0	<.1	<.2	<.1
m+p-Xylene	< 150	< 156	< 159	< 162	<.1	<.1	<960.0	<.1	<.2	<.1
n-Butylbenzene	< 150	< 156	< 159	< 162	<.1	<.1	<960.0	<.1	<.2	<.1
n-Propylbenzene	< 150	< 156	< 159	< 162	<.1	<.1	<960.0	<.1	<.2	<.1
o-Xylene	< 150	< 156	< 159	< 162	<.1	<.1	<960.0	<.1	<.2	<.1
p-Isopropyltoluene	< 150	< 156	< 159	< 162	<.1	<.1	<960.0	<.1	<.2	<.1
sec-Butylbenzene	< 150	< 156	< 159	< 162	<.1	<.1	<960.0	<.1	<.2	<.1
tert-Butylbenzene	< 150	< 156	< 159	< 162	<.1	<.1	<960.0	<.1	<.2	<.1
trans-1,2-Dichloroethene	< 288	< 301	< 305	< 311	<.1	<.1	<480.0	<.1	<.1	<.1
trans-1,3-Dichloropropene	< 150	< 156	< 159	< 162	<.1	<.1	<960.0	<.1	<.2	<.1
trans-1,4-Dichloro-2-butene	< 1500	< 1560	< 1590	< 1620	<.6	<.6	<4800.0	<.6	<1.2	<.6
Semivolatiles (µg/kg)										
1,2,3-Trichlorobenzene	< 2770	R	< 290	< 2990	<.2	<.2	<1.0	<.2	2.3	<.2
1,2,4,5-Tetrachlorobenzene	< 2770	R	< 290	< 2990	<.2	<.2	<1.0	<.2	19.4	<.2
1,2,4-Trichlorobenzene	< 2300	R	< 240	< 2490	<.2	<.2	19.2	<.2	8.1	<.2
1,2-Dichlorobenzene	12600	R	490	< 2490	0.2	6	1790	<.2	35.2	<.2
1,3-Dichlorobenzene	< 2300	R	< 240	< 2490	<.2	<.2	<.8	<.2	<.8	<.2
1,4-Dichlorobenzene	< 2300	R	< 240	< 2490	<.1	<.1	37.2	<.1	6.5	<.4
1-Chloronaphthalene	< 5760	R	< 610	< 6220	<.5	<.5	<2.5	<.5	<2.5	<.5
1-Methylnaphthalene	< 2300	R	< 240	< 2490	0.2	<.2	4.5	<.2	<1.0	<.2
1-Naphthylamine	< 7830	R	< 830	< 8460	<.2	<.2	<1.0	<.2	<1.0	<.2
2,3,4,6-Tetrachlorophenol	< 4610	R	< 490	< 4980	<.2	<.2	<1.0	<.2	<1.0	<.2
2,3-Dichloroaniline	< 2300	R	< 240	< 2490	<.2	<.2	<1.0	<.2	<1.0	<.2
2,4,5-Trichlorophenol	< 2300	R	< 240	< 2490	<.2	<.2	<1.0	<.2	<1.0	<.2
2,4,6-Trichlorophenol	< 2300	R	< 240	< 2490	<.1	<.1	<.5	<.1	<.5	<.1
2,4-Dichlorophenol	< 2300	R	< 240	< 2490	<.1	0.1	<.3	<.1	<.3	<.1
2,4-Dimethylphenol	< 2300	R	< 240	< 2490	<.2	<.2	<.9	<.2	<.9	<.2
2,4-Dinitrophenol	< 14300	R	< 1510	< 15400	<3.2	<3.2	<16.0	<3.2	<16.0	<3.2
2,4-Dinitrotoluene	< 2300	R	< 240	< 2490	<.2	<.2	<.8	<.2	2.6	<.2
2,4-Toluenediamine	< 11500	R	< 1220	< 12400	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0
2,6-Dichlorophenol	< 2300	R	< 240	< 2490	<.2	<.2	<.8	<.2	<.8	<.2
2,6-Dinitrotoluene	< 2300	R	< 240	< 2490	<.2	<.2	0.8	<.2	<.8	<.2
2-Chloronaphthalene	< 2300	R	< 240	< 2490	<.2	<.2	<1.0	<.2	<1.0	<.2

[illegible]LE 4.2-1
S[illegible]tical Results for
SWMU Group A: SWMUs 1, 2, 3, and 4

SAMPLE ID	SM001-TB04-0305	SM001-TB04-0911	SM001-TB05-0001	SM001-TB05-0305	SM001-TB06-0002	SM001-TB06-0305	SM001-TB06-2022	SM001-TB07-0002	SM001-TB07-0305	SM001-TB07-0709
SAMPLE DEPTH(ft)	3.00-5.00	9.00-11.00	0.00-1.00	3.00-5.00	0.0-2.0	3.0-5.0	20.0-22.0	0.0-2.0	3.0-5.0	7.0-9.0
SAMPLE LOCATION	TB04	TB04	TB05	TB05	TB06	TB06	TB06	TB07	TB07	TB07
SAMPLE DATE	6/24/1997	6/24/1997	6/30/1997	6/30/1997	10/29/1996	10/29/1996	10/30/1996	11/1/1996	11/1/1996	11/1/1996
PARAMETER										
2-Chlorophenol	< 2300	R	< 240	< 2490	<.2	<.2	<.8	<.2	<.8	<.2
2-Methylnaphthalene	< 2300	R	< 240	< 2490	0.3	<.2	6.2	<.2	<1.0	<.2
2-Naphthylamine	< 8760	R	< 930	< 9450	<.2	<.2	<1.0	<.2	<1.0	<.2
2-Nitroaniline	< 2770	R	< 290	< 2990	<.2	<.2	<1.0	<.2	<1.0	<.2
2-Nitrodiphenylamine	< 2300	R	< 240	< 2490	<.2	<.2	<1.0	<.2	<1.0	<.2
2-Nitrophenol	< 2300	R	< 240	< 2490	<.2	<.2	<1.0	<.2	<1.0	<.2
2-Picoline	< 8530	R	< 900	< 9200	<.2	<.2	<1.0	<.2	<1.0	<.2
3,3'-Dichlorobenzidine	< 14100	R	< 1490	< 15200	<.1	<.1	<.5	<.1	<.5	<.1
3-Methylcholanthrene	< 2300	R	< 240	< 2490	<.2	<.2	<1.0	<.2	<1.0	<.2
3-Nitroaniline	< 2300	R	< 240	< 2490	<.1	<.1	<.5	<.1	<.5	<.1
4,4' Methylenedianiline	< 20300	R	< 2150	< 21900	<.2	<.2	<1.0	<.2	<1.0	<.2
4,6-Dinitro-o-cresol	< 2300	R	< 240	< 2490	<.2	<.2	<1.0	<.2	<1.0	<.2
4-Aminobiphenyl	< 2300	R	< 240	< 2490	<.2	<.2	<1.0	<.2	<1.0	<.2
4-Aminodiphenylamine	< 5760	R	< 610	< 6220	<.2	<.2	<1.0	<.2	<1.0	<.2
4-Bromophenyl phenyl ether	< 2300	R	< 240	< 2490	<.2	<.2	<.8	<.2	<.8	<.2
4-Chloro-m-cresol	< 2300	R	< 240	< 2490	<.2	<.2	<1.0	<.2	<1.0	<.2
4-Chlorophenylphenyl ether	< 2300	R	< 240	< 2490	<.1	<.1	<.5	<.1	<.5	<.1
4-Nitroaniline	< 2300	R	< 240	< 2490	<.2	<.2	<1.0	<.2	<1.0	<.2
4-Nitrophenol	< 2300 J	R	< 240 J	< 2490 J	<.2	<.2	<.9	<.2	<.9	<.2
5-Nitro-o-toluidine	< 2300	R	< 240	< 2490	<.2	<.2	<1.0	<.2	<1.0	<.2
7,12-dimethylbenz[a]anthracene	< 2300	R	< 240	< 2490	<.2	<.2	<1.0	<.2	<1.0	<.2
Acenaphthene	< 2300	R	< 240	< 2490	<.1	<.1	1.6	<.1	<.5	<.1
Acenaphthylene	< 2300	R	< 240	< 2490	<.1	<.1	<.5	<.1	<.5	<.1
Acetophenone	< 3000	R	< 320	< 3230	<.2	<.2	<1.0	<.2	<1.0	<.2
Aniline	< 3230	R	< 340	< 3480	<.2	0.3	110	<.2	1.5	<.2
Anthracene	< 2300	R	< 240	< 2490	<.1	<.1	<.5	<.1	<.5	<.1
Azobenzene	< 2770	R	< 290	< 2990	<.2	<.2	<1.0	<.2	<1.0	<.2
Benzidine	< 36900	R	< 3900	< 39800	<3.2	<3.2	<16.0	<3.2	<16.0	<3.2
Benzo(a)anthracene	< 3000	R	< 320	< 3230	<.2	<.2	<1.0	<.2	<1.0	<.2
Benzo(a)pyrene	< 2300	R	< 240	< 2490	<.1	<.1	<.5	<.1	<.5	<.1
Benzo(b)fluoranthene	< 2300	R	< 240	< 2490	<.1	<.1	<.5	.1 J	<.5	<.1
Benzo(ghi)perylene	< 2530	R	< 270	< 2740	<.2	<.2	<1.0	<.2	<1.0	<.2
Benzo(k)fluoranthene	< 2300	R	< 240	< 2490	<.2	<.2	<1.0	<.2	<1.0	<.2
Benzoic Acid	< 2300	R	< 240	< 2490	<.2	<.2	<1.0	<.2	<1.0	<.2
Benzyl Alcohol	< 2300	R	< 240	< 2490	<.1	<.1	<.5	<.1	<.5	<.1
Benzyl butyl phthalate	< 2300	R	< 240	< 2490	<.2	0.9	<1.0	<.2	<1.0	<.2
Bis(2-chloroethoxymethane)	< 2300	R	< 240	< 2490	<.2	<.2	<1.0	<.2	<1.0	<.2
Bis(2-chloroethyl)ether	< 2300	R	< 240	< 2490	<.2	<.2	<.8	<.2	<.8	<.2
Bis(2-chloroisopropyl)ether	< 2300	R	< 240	< 2490	<.2	<.2	<1.0	<.2	<1.0	<.2
Bis(2-ethylhexyl) phthalate	< 2770	R	560	< 2990	.2 B	.4 B	45.8	.2 B	<1.0	<.2
Bisphenol A	57100	1940 J	1000	< 4480	<.3	<.3	1130	0.4	18.7	1.2
Carbazole	< 11500	R	< 1220	< 12400	NA	NA	NA	NA	NA	NA
Chrysene	< 2300	R	< 240	< 2490	<.2	<.2	<1.0	<.2	<1.0	<.2
Cyclohexanone	< 2300	R	< 240	< 2490	<.2	<.2	<1.0	<.2	<1.0	<.2
Di-n-butyl phthalate	< 2300	450 JB	1490 B	3980	9.3 B	4.6 B	31.5 B, J	8.7 B	4.6 B	3.6 B
Di-n-octyl phthalate	< 2300	R	< 240	< 2490	<.1	<.1	<.5	<.1	<.5	<.1
Dibenzo(a,h)anthracene	< 2300	R	< 240	< 2490	<.2	<.2	<.8	<.2	<.8	<.2
Dibenzofuran	< 2300	R	< 240	< 2490	<.2	<.2	<1.0	<.2	<1.0	<.2
Diethyl Phthalate	< 2300	R	< 240	< 2490	.1 B	<.1	<.5	0.1	<.5	<.1
Dimethylphthalate	< 2300	R	< 240	< 2490	<.1	<.1	<.5	<.1	<.5	<.1
Diphenylamine	NA	NA	NA	NA	<.2	<.2	26.9 J	<.2	<1.0	<.2
Ethyl Methane Sulfonate	< 4150	R	< 440	< 4480	<.5	<.5	<2.5	<.5	<2.5	<.5
Fluoranthene	< 2300	R	310	< 2490	<.2	<.2	<1.0	<.2	<1.0	<.2
Fluorene	< 2300 J	R	< 240 J	< 2490 J	<.1	<.1	<.5	<.1	<.5	<.1
Heptachlor	< 2530	R	< 270	< 2740	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	< 2300	R	< 240	< 2490	<.2	<.2	<.8	<.2	<.8	<.2
Hexachlorobutadiene	< 2300	R	< 240	< 2490	<.1	<.1	<.5	<.1	<.5	<.1

TABLE 4.2-1
Soil Analytical Results for
SWMU Group A: SWMUs 1, 2, 3, and 4

SAMPLE ID	SM001-TB04-0305	SM001-TB04-0911	SM001-TB05-0001	SM001-TB05-0305	SM001-TB06-0002	SM001-TB06-0305	SM001-TB06-2022	SM001-TB07-0002	SM001-TB07-0305	SM001-TB07-0709
SAMPLE DEPTH(ft)	3.00-5.00	9.00-11.00	0.00-1.00	3.00-5.00	0.0-2.0	3.0-5.0	20.0-22.0	0.0-2.0	3.0-5.0	7.0-9.0
SAMPLE LOCATION	TB04	TB04	TB05	TB05	TB06	TB06	TB06	TB07	TB07	TB07
SAMPLE DATE	6/24/1997	6/24/1997	6/30/1997	6/30/1997	10/29/1996	10/29/1996	10/30/1996	11/1/1996	11/1/1996	11/1/1996
PARAMETER										
Hexachlorocyclopentadiene	< 2300	R	< 240	< 2490	<.2	<.2	<1.0	<.2	<1.0	<.2
Hexachloroethane	< 2300	R	< 240	< 2490	<.2	<.2	<.8	<.2	<.8	<.2
Indeno(1,2,3-cd)pyrene	< 2300	R	< 240	< 2490	<.2	<.2	<1.0	<.2	<1.0	<.2
Isophorone	< 2300	R	< 240	< 2490	<.2	<.2	<1.0	<.2	<1.0	<.2
Methyl methane sulfonate	< 2300	R	< 240	< 2490	<.2	<.2	<1.0	<.2	<1.0	<.2
N-Nitrosodibutylamine	< 2300	R	< 240	< 2490	<.2	<.2	<1.0	<.2	<1.0	<.2
N-Nitrosodimethylamine	< 2300 J	R	< 240 J	< 2490 J	<.2	<.2	<1.0	<.2	<1.0	<.2
N-Nitrosodiphenylamine	< 3000	R	< 320	< 3230	<.2	<.2	25.9 J	<.2	<.8	<.2
N-Nitrosodipropylamine	< 2300	R	< 240	< 2490	<.2	<.2	<.8	<.2	<.8	<.2
N-Nitrosopiperidine	< 2300	R	< 240	< 2490	<.2	<.2	<1.0	<.2	<1.0	<.2
Naphthalene	< 2300	R	< 240	< 2490	0.3	<.2	2.1	<.2	<.8	<.2
Nitrobenzene	< 2300	R	< 240	< 2490	<.1	<.1	3.7	<.1	<.5	<.1
Pentachlorobenzene	< 3920	R	< 410	< 4230	<.2	<.2	<1.0	<.2	<1.0	<.2
Pentachloronitrobenzene	< 2300	R	< 240	< 2490	<.2	<.2	<1.0	<.2	<1.0	<.2
Pentachlorophenol	< 2300	R	< 240	< 2490	<.1	<.1	<.4	<.1	<.4	<.1
Phenacetin	< 2300	R	< 240	< 2490	<.2	<.2	<1.0	<.2	<1.0	<.2
Phenanthrene	< 2300	R	< 240	< 2490	0.2	<.2	<1.0	<.2	<1.0	<.2
Phenol	< 1380	R	< 150	< 1490	<.1	<.1	92.7	5.5	<.4	<.1
Pyrene	< 2300	R	310	< 2490	<.1	<.1	<.5	<.1	<.5	<.1
Pyridine	< 2530	R	< 270	< 2740	<.2	<.2	<1.0	<.2	<1.0	<.2
Trimethylphosphate	< 2300	R	< 240	< 2490	<.2	<.2	<1.0	<.2	<1.0	<.2
Triphenylphosphate	< 11500	R	< 1220	< 12400	NA	NA	NA	NA	NA	NA
m,p-Cresol	< 3460	R	< 370	< 3730	<.5	<.5	8.5	<.2	<2.5	<.5
m-Nitrotoluene	< 2300	R	< 240	< 2490	<.2	<.2	<1.0	<.2	<1.0	<.2
m-Toluidine	< 4610	R	< 490	< 4980	<.5	<.5	<2.5	<.5	<2.5	<.5
o,p-Toluidine	< 11800	R	< 1240	< 12700	<.5	<.5	4	<.5	<2.5	<.5
o-Cresol	< 2300	R	< 240	< 2490	<.2	<.2	1.9	<.2	<1.0	<.2
o-Nitrotoluene	< 2300	R	< 240	< 2490	<.2	<.2	<1.0	<.2	<1.0	<.2
p-Chloroaniline	< 2300	R	< 240	< 2490	<.2	<.2	423	<.2	2.6	<.2
p-Dimethylaminoazobenzene	< 2300	R	< 240	< 2490	<.2	<.2	<1.0	<.2	<1.0	<.2
p-Nitrotoluene	< 3460	R	< 370	< 3730	<.2	<.2	<1.0	<.2	<1.0	<.2
Metals (µg/kg)										
Antimony	< 461	< 481	< 488	< 498	<0.100	0.312	0.338	<0.100	<0.100	<0.100
Cadmium	2060	< 480	4460	1190	2.07	1.03	<0.200	2.01	0.537	<0.200
Chromium	74500	10900	421000	77200	1290	139	3.34	6.38	1.85	1.1
Lead	19900	13800	36100	20400	152000	7320	3480	27000	14000	<2000
Nickel	249000	16000	224000	80700	367	1300	20.8	139	2.89	5.31
Miscellaneous (µg/kg)										
Percent Moisture	13 %	17 %	18 %	20 %	NA	NA	NA	NA	NA	NA
Total Organic Carbon	5200000 J	3200000 J	NA	NA	NA	NA	NA	NA	NA	NA
pH in Water (Solid Sample)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
NA=Not analyzed
B=Blank contamination
J=Estimated concentration
K=Estimated concentration (high)
R=Rejected data
U=Nondetect at reported limit
<=Nondetect at reported limit

LE 4.2-1
Sc ical Results for
SWMU Group A: SWMUs 1, 2, 3, and 4

SAMPLE ID	SM001-TB07-1820	SM002-TB01-0001	SM002-TB01-0305	SM002-TB01-1315	SM002-TB02-0002	SM002-TB02-0002D	SM002-TB02-0305	SM002-TB02-1012	SM002-TB02-1618	SM002-TB03-0001
SAMPLE DEPTH(ft)	18.0-20.0	0.00-1.00	3.00-5.00	13.00-15.00	0.0-2.0	0.0-2.0	3.0-5.0	10.0-12.0	16.0-18.0	0.00-1.00
SAMPLE LOCATION	TB07	TB01	TB01	TB01	TB02	TB02	TB02	TB02	TB02	TB03
SAMPLE DATE	11/1/1996	6/25/1997	6/25/1997	6/26/1997	10/22/1996	10/22/1996	10/22/1996	10/23/1996	10/23/1996	7/2/1997
PARAMETER										
Volatiles (µg/kg)										
1,1,1,2-Tetrachloroethane	<.2	< 282	< 328	< 336	<.1	<.1	<.1	<.6	<.1	< 278
1,1,1-Trichloroethane	<.4	< 147	< 171	< 175	<.2	<.2	<.2	<.9	<.2	< 145
1,1,2,2-Tetrachloroethane	<.2	< 147	< 171	< 175	<.1	<.1	<.1	<.6	<.1	< 145
1,1,2-Trichloroethane	<.2	< 282	< 328	< 336	<.1	<.1	<.1	<.6	<.1	< 278
1,1-Dichloroethane	<.2	< 147	< 171	< 175	<.1	<.1	<.1	<.6	<.1	< 145
1,1-Dichloroethene	<.2	< 282	< 328	< 336	<.1	<.1	<.1	<.6	<.1	< 278
1,1-Dichloropropene	<.4	< 147	< 171	< 175	<.2	<.2	<.2	<.9	<.2	< 145
1,2,3-Trichlorobenzene	<.2	< 147	< 171	< 175	<.1	<.1	<.1	<.6	<.1	< 145
1,2,3-Trichloropropane	<.4	< 147	< 171	< 175	<.2	<.2	<.2	<.9	<.2	< 145
1,2,4-Trichlorobenzene	<.2	< 147	< 171	< 175	<.1	<.1	<.1	<.6	<.1	< 145
1,2,4-Trimethylbenzene	<.2	< 147	< 171	< 175	<.1	<.1	<.1	<.6	<.1	< 145
1,2-Dibromo-3-chloropropane	<1.2	< 282	< 328	< 336	<.6	<.6	<.6	<3.0	<.6	< 278
1,2-Dibromoethane	<.2	< 147	< 171	< 175	<.1	<.1	<.1	<.6	<.1	< 145
1,2-Dichlorobenzene	0.3	< 282	9580	2020	0.1	<.1	0.2	3.1	0.6	< 278
1,2-Dichloroethane	<.2	< 282	< 328	< 336	<.1	<.1	<.1	<.6	<.1	< 278
1,2-Dichloropropane	<.2	< 428	< 499	< 511	<.1	<.1	<.1	<.6	<.1	< 423
1,3,5-Trimethylbenzene	<.2	< 147	< 171	< 175	<.1	<.1	<.1	<.6	<.1	< 145
1,3-Dichlorobenzene	<.2	< 282	< 328	< 336	<.1	<.1	<.1	<.6	<.1	< 278
1,3-Dichloropropane	<.2	< 147	< 171	< 175	<.1	<.1	<.1	<.3	<.1	< 145
1,4-Dichlorobenzene	<.2	< 282	643 J	< 336	<.1	<.1	<.1	<.6	<.1	< 278
2,2-Dichloropropane	<.2	< 147	< 171	< 175	<.1	<.1	<.1	<.6	<.1	< 145
2-Butanone	<1.2	< 992	< 1150	< 1180	<.6	<.6	<.1	<.6	<.6	< 979
2-Chloroethyl Vinyl Ether	<.4	< 282	< 328	< 336	<.2	<.2	<.2	<.9	<.1	< 278
2-Chlorotoluene	<.2	< 147	< 171	< 175	<.1	<.1	<.1	<.6	<.1	< 145
2-Hexanone	<1.2	< 428	< 499	< 511	<.6	<.6	<.6	<3.0	<.6	< 423
4-Chlorotoluene	<.2	< 147	< 171	< 175	<.1	<.1	<.1	<.6	<.1	< 145
4-Methyl-2-pentanone	<1.2	< 428	< 499	< 511	<.6	<.6	<.6	<3.0	<.6	< 423
Acetone	<1.2	< 992	< 1150	< 1180	<.6	<.6	<.6	<3.0	<.6	< 979
Acrolein	<1.2	< 2820	< 3280	< 3360	<.6	<.6	<.6	<3.0	<.6	< 2780
Acrylonitrile	<1.2	< 1470	< 1710	< 1750	<.6	<.6	<.6	<3.0	<.6	< 1450
Allyl Chloride	<.2	< 147	< 171	< 175	<.1	<.1	<.1	<.6	<.1	< 145
Benzene	3.6	< 147	761 J	< 175	<.2	<.2	<.2	<.9	<.2	< 145
Bromobenzene	<.2	< 147	< 171	< 175	<.1	<.1	<.1	<.6	<.1	< 145
Bromochloromethane	<.4	< 147	< 171	< 175	<.2	<.2	<.2	<.9	<.2	< 145
Bromodichloromethane	<.2	< 282	< 328	< 336	<.1	<.1	<.1	<.6	<.1	< 278
Bromoform	<.2	< 147	< 171	< 175	<.1	<.1	<.1	<.6	<.1	< 145
Bromomethane	<.2	< 428	< 499	< 511	<.1	<.1	<.1	<.6	<.1	< 423
Carbon Disulfide	<.2	< 428	< 499	< 511	<.1	<.1	<.1	<.6	<.1	< 423
Carbon Tetrachloride	<.2	< 147	< 171	< 175	<.1	<.1	<.1	<.6	<.1	< 145
Chlorobenzene	6.9	823	101000	579 J	0.9	0.4	0.2	1.1	0.7	< 145
Chloroethane	<.2	< 428	< 499	< 511	<.1	<.1	<.1	<.6	<.1	< 423
Chloroform	<.1	< 147	< 171	< 175	<.1	<.1	<.1	<.3	<.1	< 145

TABLE 4.2-1
Soil Analytical Results for
SWMU Group A: SWMUs 1, 2, 3, and 4

SAMPLE ID	SM001-TB07-1820	SM002-TB01-0001	SM002-TB01-0305	SM002-TB01-1315	SM002-TB02-0002	SM002-TB02-0002D	SM002-TB02-0305	SM002-TB02-1012	SM002-TB02-1618	SM002-TB03-0001
SAMPLE DEPTH(ft)	18.0-20.0	0.00-1.00	3.00-5.00	13.00-15.00	0.0-2.0	0.0-2.0	3.0-5.0	10.0-12.0	16.0-18.0	0.00-1.00
SAMPLE LOCATION	TB07	TB01	TB01	TB01	TB02	TB02	TB02	TB02	TB02	TB03
SAMPLE DATE	11/1/1996	6/25/1997	6/25/1997	6/26/1997	10/22/1996	10/22/1996	10/22/1996	10/23/1996	10/23/1996	7/2/1997
PARAMETER										
Chloromethane	<.4	< 282	< 328	< 336	<.2	<.2	<.2	<.9	<.2	< 278
Dibromochloromethane	<.2	< 147	< 171	< 175	<.1	<.1	<.1	<.6	<.1	< 145
Dibromomethane	<.4	< 147	< 171	< 175	<.2	<.2	<.2	<.9	<.2	< 145
Dichlorodifluoromethane	<.2	< 282	< 328	< 336	<.1	<.1	<.1	<.6	<.1	< 278
Ethyl Methacrylate	<.4	< 147	< 171	< 175	<.2	<.2	<.2	<.9	<.2	< 145
Ethylbenzene	<.2	< 147	906	< 175	<.1	<.1	<.1	<.6	<.1	< 145
Freon 113	NA	451 JB	564 J	< 336	NA	NA	NA	NA	NA	< 278
Freon 141b	NA	< 147	< 171	< 175	NA	NA	NA	NA	NA	< 145
Hexachlorobutadiene	<.2	< 282	< 328	< 336	<.1	<.1	<.1	<.6	<.1	< 278
Isopropylbenzene	<.2	< 428	< 499	< 511	<.1	<.1	<.1	<.6	<.1	< 423
Methyl Iodide	<.2	< 428	< 499	< 511	<.1	<.1	<.1	<.6	<.1	< 423
Methylene Chloride	<.3	< 282	< 328	< 336	.7 B	.7 B	<.2	<.8	<.2	< 278
Naphthalene	<1.2	< 147	276 J	< 175	<.6	<.6	<.6	<.6	<.6	< 145
Styrene	<.2	< 147	< 171	< 175	<.1	<.1	<.1	<.6	<.1	< 145
Tetrachloroethene	<.2	< 147	< 171	< 175	<.1	<.1	<.1	<.6	<.1	< 145
Toluene	<.2	< 147	1570	< 175	<.1	<.1	<.1	<.6	<.1	< 145
Trichloroethene	.3 B	< 147	< 171	< 175	<.1	<.1	<.1	<.3	<.1	< 145
Trichlorofluoromethane	<.2	< 282	< 328	< 336	<.1	<.1	<.1	1.4	<.1	< 278
Vinyl Acetate	<1.2	< 428	< 499	< 511	<.6	<.6	<.6	<3.0	<.6	< 423
Vinyl Chloride	<.2	< 282	< 328	< 336	<.1	<.1	<.1	<.6	<.1	< 278
cis-1,2-Dichloroethene	<.2	< 282	< 328	< 336	<.1	<.1	<.1	<.6	<.1	< 278
cis-1,3-Dichloropropene	<.2	< 147	< 171	< 175	<.1	<.1	<.1	<.6	<.1	< 145
m+p-Xylene	<.2	< 147	2890	< 175	<.1	<.1	<.1	<.6	<.1	< 145
n-Butylbenzene	<.2	< 147	< 171	< 175	<.1	<.1	<.1	<.6	<.1	< 145
n-Propylbenzene	<.2	< 147	< 171	< 175	<.1	<.1	<.1	<.6	<.1	< 145
o-Xylene	<.2	< 147	682 J	< 175	<.1	<.1	<.1	<.6	<.1	< 145
p-Isopropyltoluene	<.2	< 147	354 J	< 175	<.1	<.1	<.1	<.6	<.1	< 145
sec-Butylbenzene	<.2	< 147	< 171	< 175	<.1	<.1	<.1	<.6	<.1	< 145
tert-Butylbenzene	<.2	< 147	< 171	< 175	<.1	<.1	<.1	<.6	<.1	< 145
trans-1,2-Dichloroethene	<.1	< 282	< 328	< 336	<.1	<.1	<.1	<.3	<.1	< 278
trans-1,3-Dichloropropene	<.2	< 147	< 171	< 175	<.1	<.1	<.1	<.6	<.1	< 145
trans-1,4-Dichloro-2-butene	<1.2	< 1470	< 1710	< 1750	<.6	<.6	<.1	<3.0	<.6	< 1450
Semivolatiles (µg/kg)										
1,2,3-Trichlorobenzene	<.2	R	< 3150	< 3230	<.2	<.2	<.2	<.2	<.2	R
1,2,4,5-Tetrachlorobenzene	<.2	R	< 3150	< 3230	<.2	<.2	<.2	0.3	<.2	R
1,2,4-Trichlorobenzene	<.2	R	< 2620	< 2690	<.2	<.2	<.2	0.2	<.2	R
1,2-Dichlorobenzene	<.2	R	< 2620	< 2690	0.4	0.4	2.3	142	2.5	500 J
1,3-Dichlorobenzene	<.2	R	< 2620	< 2690	<.2	<.2	<.2	<.2	<.2	R
1,4-Dichlorobenzene	<.1	R	< 2620	< 2690	<.1	<.1	<.1	2.1	<.1	R
1-Chloronaphthalene	<.5	R	< 6560	< 6730	<.2	<.5	<.5	<.5	<.5	R
1-Methylnaphthalene	<.2	R	< 2620	< 2690	<.2	<.2	<.2	<.2	<.2	R
1-Naphthylamine	<.2	R	< 8920	< 9150	<.2	<.2	<.2	<.2	<.2	R
2,3,4,6-Tetrachlorophenol	<.2	R	< 5250	< 5380	<.2	<.2	<.2	<.2	<.2	R
2,3-Dichloroaniline	<.2	R	< 2620	< 2690	<.2	<.2	<.2	<.2	<.2	R
2,4,5-Trichlorophenol	<.2	R	< 2620	< 2690	<.2	<.2	<.2	<.2	<.2	R
2,4,6-Trichlorophenol	<.1	R	< 2620	< 2690	<.1	<.1	<.1	<.1	<.1	R
2,4-Dichlorophenol	<.1	R	< 2620	< 2690	<.1	<.1	<.1	<.1	<.1	R
2,4-Dimethylphenol	<.2	R	< 2620	< 2690	<.2	<.2	<.2	<.2	<.2	R
2,4-Dinitrophenol	<3.2	R	< 16300	< 16700	<3.2	<3.2	<3.2	<3.2	<3.2	R
2,4-Dinitrotoluene	<.2	R	< 2620	< 2690	<.2	<.2	<.2	<.2	<.2	1150 J
2,4-Toluenediamine	<1.0	R	< 13100	< 13500	<1.0	<1.0	<1.0	<1.0	<1.0	R
2,6-Dichlorophenol	<.2	R	< 2620	< 2690	<.2	<.2	<.2	<.2	<.2	R
2,6-Dinitrotoluene	<.2	R	< 2620	< 2690	<.2	<.2	<.2	<.2	<.2	370 J
2-Chloronaphthalene	<.2	R	< 2620	< 2690	<.5	<.5	<.2	<.2	<.2	R

BLE 4.2-1
S tical Results for
SWMU Group A: SWMUs 1, 2, 3, and 4

SAMPLE ID	SM001-TB07-1820	SM002-TB01-0001	SM002-TB01-0305	SM002-TB01-1315	SM002-TB02-0002	SM002-TB02-0002D	SM002-TB02-0305	SM002-TB02-1012	SM002-TB02-1618	SM002-TB03-0001
SAMPLE DEPTH(ft)	18.0-20.0	0.00-1.00	3.00-5.00	13.00-15.00	0.0-2.0	0.0-2.0	3.0-5.0	10.0-12.0	16.0-18.0	0.00-1.00
SAMPLE LOCATION	TB07	TB01	TB01	TB01	TB02	TB02	TB02	TB02	TB02	TB03
SAMPLE DATE	11/1/1996	6/25/1997	6/25/1997	6/26/1997	10/22/1996	10/22/1996	10/22/1996	10/23/1996	10/23/1996	7/2/1997
PARAMETER										
2-Chlorophenol	<.2	R	< 2620	< 2690	<.2	<.2	<.2	<.2	<.2	R
2-Methylnaphthalene	<.2	R	< 2620	< 2690	<.2	<.2	<.2	<.2	<.2	R
2-Naphthylamine	<.2	R	< 9970	< 10200	<.2	<.2	<.2	<.2	<.2	R
2-Nitroaniline	<.2	R	< 3150	< 3230	<.2	<.2	<.2	<.2	<.2	R
2-Nitrodiphenylamine	<.2	R	< 2620	< 2690	<.2	<.2	<.2	<.2	<.2	R
2-Nitrophenol	<.2	R	< 2620	< 2690	<.2	<.2	<.2	<.2	<.2	R
2-Picoline	<.2	R	< 9710	< 9960	<.2	<.2	<.2	<.1	<.2	R
3,3'-Dichlorobenzidine	<.1	R	< 16000	< 16400	<.1	<.1	<.1	<.1	<.1	R
3-Methylcholanthrene	<.2	R	< 2620	< 2690	<.2	<.2	<.2	<.2	<.2	R
3-Nitroaniline	<.1	R	< 2620	< 2690	<.1	<.1	<.1	<.1	<.1	R
4,4' Methylenedianiline	<.2	R	< 23100	< 23700	<.2	<.2	<.2	<.2	<.2	R
4,6-Dinitro-o-cresol	<.2	R	< 2620	< 2690	<.2	<.2	<.2	<.2	<.2	R
4-Aminobiphenyl	<.2	R	< 2620	< 2690	<.2	<.2	<.2	<.2	<.2	R
4-Aminodiphenylamine	<.2	R	< 6560	< 6730	<.2	<.2	<.2	<.2	<.2	R
4-Bromophenyl phenyl ether	<.2	R	< 2620	< 2690	<.2	<.2	<.2	<.2	<.2	R
4-Chloro-m-cresol	<.2	R	< 2620	< 2690	<.2	<.2	<.2	<.2	<.2	R
4-Chlorophenylphenyl ether	<.1	R	< 2620	< 2690	<.1	<.1	<.1	<.1	<.1	R
4-Nitroaniline	<.2	R	< 2620	< 2690	<.2	<.2	<.2	<.2	<.2	R
4-Nitrophenol	<.2	R	< 2620 J	< 2690 J	<.2	<.2	<.2	<.2	<.2	R
5-Nitro-o-toluidine	<.2	R	< 2620	< 2690	<.2	<.2	<.2	<.2	<.2	R
7,12-dimethylbenz[a]anthracene	<.2	R	< 2620	< 2690	<.2	<.2	<.2	<.2	<.2	R
Acenaphthene	<.1	R	< 2620	< 2690	<.1	<.1	<.1	0.1	<.1	R
Acenaphthylene	<.1	R	< 2620	< 2690	<.1	<.1	<.1	<.1	<.1	R
Acetophenone	<.2	R	< 3410	< 3500	<.2	<.2	<.2	<.2	<.2	R
Aniline	<.2	R	< 3670	< 3770	2.1	8.1	2.4	<.2	1.5	R
Anthracene	<.1	R	< 2620	< 2690	<.1	<.1	<.1	<.1	<.1	R
Azobenzene	<.2	R	< 3150	< 3230	<.2	<.2	<.2	<.2	<.2	R
Benzidine	<3.2	R	< 42000	< 43100	<3.2	<3.2	<3.2	<3.2	<3.2	R
Benzo(a)anthracene	<.2	R	< 3410	< 3500	<.2	<.2	<.2	<.2	<.2	R
Benzo(a)pyrene	<.1	R	< 2620	< 2690	<.1	<.1	<.1	<.1	<.1	R
Benzo(b)fluoranthene	<.1	R	< 2620	< 2690	<.1	<.1	<.1	<.1	<.1	R
Benzo(ghi)perylene	<.2	R	< 2890	< 2960	<.2	<.2	<.2	<.2	<.2	R
Benzo(k)fluoranthene	<.2	R	< 2620	< 2690	<.2	<.2	<.2	<.2	<.2	R
Benzoic Acid	<.2	R	< 2620	< 2690	<.2	<.2	<.2	<.2	<.2	R
Benzyl Alcohol	<.1	R	< 2620	< 2690	<.1	<.1	<.2	<.1	<.2	R
Benzyl butyl phthalate	<.2	R	< 2620	< 2690	<.2	0.3	<.2	<.2	<.2	R
Bis(2-chloroethoxymethane)	<.2	R	< 2620	< 2690	<.2	<.2	<.2	<.2	<.2	R
Bis(2-chloroethyl)ether	<.2	R	< 2620	< 2690	<.2	<.2	<.2	<.2	<.2	R
Bis(2-chloroisopropyl)ether	<.2	R	< 2620	< 2690	<.2	<.2	<.2	<.2	<.2	R
Bis(2-ethylhexyl) phthalate	.5 B	R	< 3150	< 3230	.7 B	5.5	.5 B	.5 B	.3 B	R
Bisphenol A	<.3	R	< 4720	20100	1.5	<.3	1.4	7.1	2.2	2600 J
Carbazole	NA	R	< 13100	< 13500	NA	NA	NA	NA	NA	R
Chrysene	<.2	R	< 2620	< 2690	<.2	<.2	<.2	<.2	<.2	R
Cyclohexanone	<.2	R	< 2620	< 2690	<.2	<.2	<.2	<.2	<.2	R
Di-n-butyl phthalate	6.2 B	R	7900 B	3070 B	4.5 B	6.6 B	10.9 B	3.8 B	7.8 B	R
Di-n-octyl phthalate	<.1	R	< 2620	< 2690	<.1	<.1	<.1	<.1	<.1	R
Dibenzo(a,h)anthracene	<.2	R	< 2620	< 2690	<.2	<.2	<.2	<.2	<.2	R
Dibenzofuran	<.2	R	< 2620	< 2690	<.2	<.2	<.2	<.2	<.2	R
Diethyl Phthalate	<.1	R	< 2620	< 2690	<.1	0.3	0.3	0.1	0.2	R
Dimethylphthalate	<.1	R	< 2620	< 2690	<.1	<.1	<.1	<.1	<.1	R
Diphenylamine	<.2	NA	NA	NA	<.2	0.3	<.2	<.2	<.2	NA
Ethyl Methane Sulfonate	<.5	R	< 4720	< 4850	<.5	<.5	<.5	<.5	<.5	R
Fluoranthene	<.2	R	< 2620	< 2690	<.2	<.2	0.3	0.3	<.2	R
Fluorene	<.1	R	< 2620 J	< 2690 J	<.1	<.1	<.1	<.1	<.1	R
Heptachlor	NA	R	< 2890	< 2960	<.2	<.2	NA	NA	NA	R
Hexachlorobenzene	<.2	R	< 2620	< 2690	<.2	<.2	<.2	<.2	<.2	R
Hexachlorobutadiene	<.1	R	< 2620	< 2690	<.1	<.1	<.1	<.1	<.1	R

TABLE 4.2-1
Soil Analytical Results for
SWMU Group A: SWMUs 1, 2, 3, and 4

SAMPLE ID	SM001-TB07-1820	SM002-TB01-0001	SM002-TB01-0305	SM002-TB01-1315	SM002-TB02-0002	SM002-TB02-0002D	SM002-TB02-0305	SM002-TB02-1012	SM002-TB02-1618	SM002-TB03-0001
SAMPLE DEPTH(ft)	18.0-20.0	0.00-1.00	3.00-5.00	13.00-15.00	0.0-2.0	0.0-2.0	3.0-5.0	10.0-12.0	16.0-18.0	0.00-1.00
SAMPLE LOCATION	TB07	TB01	TB01	TB01	TB02	TB02	TB02	TB02	TB02	TB03
SAMPLE DATE	11/1/1996	6/25/1997	6/25/1997	6/26/1997	10/22/1996	10/22/1996	10/22/1996	10/23/1996	10/23/1996	7/2/1997
PARAMETER										
Hexachlorocyclopentadiene	<.2	R	< 2620	< 2690	<.2	<.2	<.2	<.2	<.2	R
Hexachloroethane	<.2	R	< 2620	< 2690	<.2	<.2	<.2	<.2	<.2	R
Indeno(1,2,3-cd)pyrene	<.2	R	< 2620	< 2690	<.2	<.2	<.2	<.2	<.2	R
Isophorone	<.2	R	< 2620	< 2690	<.2	<.2	<.2	<.2	<.2	R
Methyl methane sulfonate	<.2	R	< 2620	< 2690	<.2	<.2	<.2	<.2	<.2	R
N-Nitrosodibutylamine	<.2	R	< 2620	< 2690	<.2	<.2	<.2	<.2	<.2	R
N-Nitrosodimethylamine	<.2	R	< 2620 J	< 2690 J	<.2	<.2	<.2	<.2	<.2	R
N-Nitrosodiphenylamine	<.2	R	< 3410	< 3500	<.2	0.4	<.2	<.2	<.2	R
N-Nitrosodipropylamine	<.2	R	< 2620	< 2690	<.2	<.2	<.2	<.2	<.2	R
N-Nitrosopiperidine	<.2	R	< 2620	< 2690	<.2	<.2	<.2	<.2	<.2	R
Naphthalene	<.2	R	< 2620	< 2690	<.2	<.2	<.2	<.2	<.2	R
Nitrobenzene	<.1	R	< 2620	< 2690	1.6	1.6	<.1	<.1	<.1	R
Pentachlorobenzene	<.2	R	< 4460	< 4580	<.2	<.2	<.2	<.2	<.2	R
Pentachloronitrobenzene	<.2	R	< 2620	< 2690	<.2	<.2	<.2	<.2	<.2	R
Pentachlorophenol	<.1	R	< 2620	< 2690	<.1	<.1	<.1	<.1	<.1	R
Phenacetin	<.2	R	< 2620	< 2690	<.2	<.2	<.2	<.2	<.2	R
Phenanthrene	<.2	R	< 2620	< 2690	<.2	<.2	<.2	<.2	<.2	R
Phenol	<.1	R	< 1570	< 1620	<.1	<.1	<.1	<.1	<.1	R
Pyrene	<.1	R	< 2620	< 2690	<.1	<.1	0.3	<.1	<.1	R
Pyridine	<.2	R	< 2890	< 2960	<.2	<.2	<.2	<.2	<.2	R
Trimethylphosphate	<.2	R	< 2620	< 2690	<.2	<.2	<.2	<.2	<.2	R
Triphenylphosphate	NA	R	< 13100	< 13500	NA	NA	NA	NA	NA	R
m,p-Cresol	<.5	R	< 3940	< 4040	<.5	<.5	<.5	<.5	<.5	R
m-Nitrotoluene	<.2	R	< 2620	< 2690	<.2	<.2	<.2	<.2	<.2	R
m-Toluidine	<.5	R	< 5250	< 5380	<.5	<.5	<.5	<.5	<.5	R
o,p-Toluidine	<.5	R	< 13400	< 13700	<.5	<.5	<.5	<.5	<.5	R
o-Cresol	<.2	R	< 2620	< 2690	<.2	<.2	<.2	<.2	<.2	R
o-Nitrotoluene	<.2	R	< 2620	< 2690	<.2	<.2	<.2	<.2	<.2	R
p-Chloroaniline	<.2	R	< 2620	< 2690	0.8	0.3	<.2	0.7	<.2	R
p-Dimethylaminoazobenzene	<.2	R	< 2620	< 2690	<.2	<.2	<.2	<.2	<.2	R
p-Nitrotoluene	<.2	R	< 3940	< 4040	<.2	<.2	<.2	<.2	<.2	R
Metals (µg/kg)										
Antimony	<0.100	< 451	< 525	< 538	0.586	0.44	<0.100	<0.100	0.375	< 445
Cadmium	<0.200	< 450	8630	5360	1.36	1.64	<0.200	0.618	1.23	980
Chromium	11.2	41600	3560000	2720000	987	977	407	96.5	1630	18300
Lead	<2000	20300	208000	122000	6720	6430	22200	9310	192000	17200
Nickel	49.7	38300	1390000	1240000	439	437	176	44.9	765	97200
Miscellaneous (µg/kg)										
Percent Moisture	NA	NA	24 %	26 %	NA	NA	NA	NA	NA	NA
Total Organic Carbon	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH in Water (Solid Sample)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
NA=Not analyzed
B=Blank contamination
J=Estimated concentration
K=Estimated concentration (high)
R=Rejected data
U=Nondetect at reported limit
<=Nondetect at reported limit

BLE 4.2-1
ytical Results for
SWMU Group A: SWMUs 1, 2, 3, and 4

SAMPLE ID	SM002-TB03-0305	SM002-TB03-1517	SM003-CC01-0001	SM003-CC01-0002	SM003-TB01-0305	SM003-TB01-0507	SM003-TB01-0709	SM003-TB01-0911	SM003-TB01-1113	SM003-TB02-0001
SAMPLE DEPTH(ft)	3.00-5.00	15.00-17.00	0.00-1.00	0.00-1.01	3.00-5.00	5.00-7.00	7.00-9.00	9.00-11.00	11.00-13.00	0.00-1.00
SAMPLE LOCATION	TB03	TB03	CC01	CC02	TB01	TB01	TB01	TB01	TB01	TB02
SAMPLE DATE	7/2/1997	7/2/1997	7/18/1997	7/19/1997	6/24/1997	6/24/1997	6/24/1997	6/24/1997	6/24/1997	6/24/1997
PARAMETER										
Volatiles (µg/kg)										
1,1,1,2-Tetrachloroethane	< 302	< 304	< 256	< 257	< 306	< 1110	< 312	< 742	< 332	< 261
1,1,1-Trichloroethane	< 157	< 158	< 133	< 134	< 159	< 555	< 162	< 371	< 173	< 136
1,1,2,2-Tetrachloroethane	< 157	< 158	< 133	< 134	< 159	< 555	< 162	< 371	< 173	< 136
1,1,2-Trichloroethane	< 302	< 304	< 256	< 257	< 306	< 1110	< 312	< 742	< 332	< 261
1,1-Dichloroethane	< 157	< 158	< 133	< 134	< 159	< 555	< 162	< 371	< 173	< 136
1,1-Dichloroethene	< 302	< 304	< 256	< 257	< 306	< 1110	< 312	< 742	< 332	< 261
1,1-Dichloropropene	< 157	< 158	< 133	< 134	< 159	< 555	< 162	< 371	< 173	< 136
1,2,3-Trichlorobenzene	< 157	< 158	< 133	< 134	< 159	< 555	< 162	< 371	< 173	< 136
1,2,3-Trichloropropane	< 157	< 158	< 133	< 134	< 159	< 555	< 162	< 371	< 173	< 136
1,2,4-Trichlorobenzene	< 157	< 158	< 133	< 134	698 J	1080 J	250 J	668 J	< 173	< 136
1,2,4-Trimethylbenzene	< 157	< 158	< 133	< 134	< 159	< 555	< 162	< 371	199 J	< 136
1,2-Dibromo-3-chloropropane	< 302	< 304	< 256	< 257	< 306	< 1110	< 312	< 742	< 332	< 261
1,2-Dibromoethane	< 157	< 158	< 133	< 134	< 159	< 555	< 162	< 371	< 173	< 136
1,2-Dichlorobenzene	< 302	2800	< 256	< 257	6240	4220	66200	19300	212000	1260
1,2-Dichloroethane	< 302	< 304	< 256	< 257	< 306	< 1110	< 312	< 742	< 332	< 261
1,2-Dichloropropane	< 459	< 462	< 390	< 391	< 465	< 1670	< 474	< 1110	< 505	< 397
1,3,5-Trimethylbenzene	< 157	< 158	< 133	< 134	< 159	< 555	< 162	< 371	< 173	< 136
1,3-Dichlorobenzene	< 302	< 304	< 256	< 257	< 306	< 1110	< 312	< 742	< 332	< 261
1,3-Dichloropropane	< 157	< 158	< 133	< 134	< 159	< 555	< 162	< 371	< 173	< 136
1,4-Dichlorobenzene	< 302	< 304	< 256	< 257	2200	< 1110	836	< 742	2520	< 261
2,2-Dichloropropane	< 157	< 158	< 133	< 134	< 159	< 555	< 162	< 371	< 173	< 136
2-Butanone	< 1060	< 1070	< 902	< 903	< 1080	< 3890	< 1100	< 2670	< 1170	< 920
2-Chloroethyl Vinyl Ether	< 302	< 304	< 256	< 257	< 306	< 1110	< 312	< 742	< 332	< 261
2-Chlorotoluene	< 157	< 158	< 133	< 134	< 159	< 555	< 162	< 371	< 173	< 136
2-Hexanone	< 459	< 462	< 390	< 391	< 465	< 1670	< 474	< 1110	< 505	< 397
4-Chlorotoluene	< 157	< 158	< 133	< 134	< 159	< 555	< 162	< 371	< 173	< 136
4-Methyl-2-pentanone	< 459	< 462	< 390	< 391	< 465	< 1670	< 474	< 1110	< 505	< 397
Acetone	< 1060	< 1070	< 902	< 903	< 1080	< 3890	< 1100	< 2670	< 1170	< 920
Acrolein	< 3020	< 3040	< 2560	< 2561	< 3060	< 11100	< 3120	< 7420	< 3320	< 2610
Acrylonitrile	< 1570	< 1580	< 1330	< 1331	< 1590	< 5550	< 1620	< 3710	< 1730	< 1360
Allyl Chloride	< 157	< 158	< 133	< 134	< 159	< 555	< 162	< 371	< 173	< 136
Benzene	< 157	< 158	< 133	< 134	< 159	< 555	187 J	1780 J	266 J	< 136
Bromobenzene	< 157	< 158	< 133	< 134	< 159	< 555	< 162	< 371	< 173	< 136
Bromochloromethane	< 157	< 158	< 133	< 134	< 159	< 555	< 162	< 371	< 173	< 136
Bromodichloromethane	< 302	< 304	< 256	< 257	< 306	< 1110	< 312	< 742	< 332	< 261
Bromoform	< 157	< 158	< 133	< 134	< 159	< 555	< 162	< 371	< 173	< 136
Bromomethane	< 459	< 462	< 390	< 391	< 465	< 1670	< 474	< 1110	< 505	< 397
Carbon Disulfide	< 459	< 462	< 390	< 391	< 465	< 1670	< 474	< 1110	< 505	< 397
Carbon Tetrachloride	< 157	< 158	< 133	< 134	< 159	< 555	< 162	< 371	< 173	< 136
Chlorobenzene	169 J	900	3590	3591	36700	422000	49900	163000	29200	24100
Chloroethane	< 459	< 462	< 390	< 391	< 465	< 1670	< 474	< 1110	< 505	< 397
Chloroform	< 157	< 158	< 133	< 134	< 159	< 555	< 162	< 371	< 173	< 136

TABLE 4.2-1
Soil Analytical Results for
SWMU Group A: SWMUs 1, 2, 3, and 4

SAMPLE ID	SM002-TB03-0305	SM002-TB03-1517	SM003-CC01-0001	SM003-CC01-0002	SM003-TB01-0305	SM003-TB01-0507	SM003-TB01-0709	SM003-TB01-0911	SM003-TB01-1113	SM003-TB02-0001
SAMPLE DEPTH(ft)	3.00-5.00	15.00-17.00	0.00-1.00	0.00-1.01	3.00-5.00	5.00-7.00	7.00-9.00	9.00-11.00	11.00-13.00	0.00-1.00
SAMPLE LOCATION	TB03	TB03	CC01	CC02	TB01	TB01	TB01	TB01	TB01	TB02
SAMPLE DATE	7/2/1997	7/2/1997	7/18/1997	7/19/1997	6/24/1997	6/24/1997	6/24/1997	6/24/1997	6/24/1997	6/24/1997
PARAMETER										
Chloromethane	< 302	< 304	< 256	< 257	< 306	< 1110	< 312	< 742	< 332	< 261
Dibromochloromethane	< 157	< 158	< 133	< 134	< 159	< 555	< 162	< 371	< 173	< 136
Dibromomethane	< 157	< 158	< 133	< 134	< 159	< 555	< 162	< 371	< 173	< 136
Dichlorodifluoromethane	< 302	< 304	< 256	< 257	< 306	< 1110	< 312	< 742	< 332	< 261
Ethyl Methacrylate	< 157	< 158	< 133	< 134	< 159	< 555	< 162	< 371	< 173	< 136
Ethylbenzene	< 157	< 158	< 133	< 134	< 159	< 555	< 162	< 371	< 173	< 136
Freon 113	< 302	< 304	267 JB	268 JB	< 306	< 1110	1500 J	< 742	< 332	< 261
Freon 141b	< 157	< 158	< 133	< 134	< 159	< 555	< 162	< 371	< 173	< 136
Hexachlorobutadiene	< 302	< 304	< 256	< 257	< 306	< 1110	< 312	< 742	< 332	< 261
Isopropylbenzene	< 459	< 462	< 390	< 391	< 465	< 1670	< 474	< 1110	< 505	< 397
Methyl Iodide	< 459	< 462	< 390	< 391	< 465	< 1670	< 474	< 1110	< 505	< 397
Methylene Chloride	< 302	< 304	< 256	< 257	< 306	< 1110	< 312	< 742	< 332	< 261
Naphthalene	< 157	< 158	< 133	< 134	< 159	< 555	< 162	< 371	< 173	< 136
Styrene	< 157	< 158	< 133	< 134	< 159	< 555	< 162	< 371	< 173	< 136
Tetrachloroethene	< 157	< 158	< 133	< 134	< 159	< 555	< 162	< 371	< 173	< 136
Toluene	< 157	< 158	< 133	< 134	428 J	3330	874	2520	345 J	< 136
Trichloroethene	< 157	< 158	< 133	< 134	< 159	< 555	< 162	< 371	< 173	< 136
Trichlorofluoromethane	< 302	< 304	< 256	< 257	< 306	< 1110	< 312	< 742	< 332	< 261
Vinyl Acetate	< 459	< 462	< 390	< 391	< 465	< 1670	< 474	< 1110	< 505	< 397
Vinyl Chloride	< 302	< 304	< 256	< 257	< 306	< 1110	< 312	< 742	< 332	< 261
cis-1,2-Dichloroethene	< 302	< 304	< 256	< 257	< 306	< 1110	< 312	< 742	< 332	< 261
cis-1,3-Dichloropropene	< 157	< 158	< 133	< 134	< 159	< 555	< 162	< 371	< 173	< 136
m+p-Xylene	< 157	< 158	< 133	< 134	< 159	< 555	< 162	< 371	212 J	< 136
n-Butylbenzene	< 157	< 158	< 133	< 134	< 159	< 555	< 162	< 371	< 173	< 136
n-Propylbenzene	< 157	< 158	< 133	< 134	< 159	< 555	< 162	< 371	< 173	< 136
o-Xylene	< 157	< 158	< 133	< 134	< 159	< 555	< 162	< 371	< 173	< 136
p-Isopropyltoluene	< 157	< 158	< 133	< 134	< 159	< 555	412 J	< 371	996	< 136
sec-Butylbenzene	< 157	< 158	< 133	< 134	< 159	< 555	< 162	< 371	< 173	< 136
tert-Butylbenzene	< 157	< 158	< 133	< 134	< 159	< 555	< 162	< 371	< 173	< 136
trans-1,2-Dichloroethene	< 302	< 304	< 256	< 257	< 306	< 1110	< 312	< 742	< 332	< 261
trans-1,3-Dichloropropene	< 157	< 158	< 133	< 134	< 159	< 555	< 162	< 371	< 173	< 136
trans-1,4-Dichloro-2-butene	< 1570	< 1580	< 1330	< 1331	< 1590	< 5550	< 1620	< 3710	< 1730	< 1360
Semivolatiles (µg/kg)										
1,2,3-Trichlorobenzene	< 290	< 290	< 5050	< 2640	R	< 2670	< 15000	R	< 31900	< 12600
1,2,4,5-Tetrachlorobenzene	< 290	< 290	< 5050	< 2640	R	< 2670	< 15000	R	< 31900	< 12600
1,2,4-Trichlorobenzene	< 240	< 240	18800	< 2200	R	< 2220	< 12500	R	< 26600	< 10500
1,2-Dichlorobenzene	< 240	4910	< 4210 J	13600	R	2290	159000	R	4540000	< 10500
1,3-Dichlorobenzene	< 240	< 240	< 4210	< 2200	R	< 2220	< 12500	R	< 26600	< 10500
1,4-Dichlorobenzene	< 240	< 240	< 4210	< 2200	R	< 2220	< 12500	R	48600	< 10500
1-Chloronaphthalene	< 600	< 610	< 10500	< 5500	R	< 5550	< 31200	R	< 66400	< 26200
1-Methylnaphthalene	250	< 240	< 4210	< 2200	R	< 2220	< 12500	R	< 26600	< 10500
1-Naphthylamine	< 820	< 830	< 14300	< 7480	R	< 7550	< 42500	R	< 90300	< 35600
2,3,4,6-Tetrachlorophenol	< 480	< 490	< 8410	R	R	< 4440	< 25000	R	< 53100	< 20900
2,3-Dichloroaniline	< 240	< 240	< 4210	< 2200	R	< 2220	< 12500	R	< 26600	< 10500
2,4,5-Trichlorophenol	< 240	< 240	< 4210	R	R	< 2220	< 12500	R	< 26600	< 10500
2,4,6-Trichlorophenol	< 240	< 240	< 4210	R	R	< 2220	< 12500	R	< 26600	< 10500
2,4-Dichlorophenol	< 240	< 240	< 4210	R	R	< 2220	< 12500	R	< 26600	< 10500
2,4-Dimethylphenol	< 240	< 240	< 4210	R	R	< 2220	< 12500	R	< 26600	< 10500
2,4-Dinitrophenol	< 1500	< 1510	< 26100	R	R	< 13800	< 77400	R	< 165000	< 64900
2,4-Dinitrotoluene	< 240	< 240	< 4210	< 2200	R	< 2220	< 12500	R	< 26600	< 10500
2,4-Toluenediamine	< 1210	< 1220	< 21000	< 11000	R	< 11100	< 62400	R	< 133000	< 52300
2,6-Dichlorophenol	< 240	< 240	< 4210	R	R	< 2220	< 12500	R	< 26600	< 10500
2,6-Dinitrotoluene	< 240	< 240	< 4210	< 2200	R	< 2220	< 12500	R	< 26600	< 10500
2-Chloronaphthalene	< 240	< 240	< 4210	< 2200	R	< 2220	< 12500	R	< 26600	< 10500

LE 4.2-1
S... ...tical Results for
SWMU Group A: SWMUs 1, 2, 3, and 4

SAMPLE ID	SM002-TB03-0305	SM002-TB03-1517	SM003-CC01-0001	SM003-CC01-0002	SM003-TB01-0305	SM003-TB01-0507	SM003-TB01-0709	SM003-TB01-0911	SM003-TB01-1113	SM003-TB02-0001
SAMPLE DEPTH(ft)	3.00-5.00	15.00-17.00	0.00-1.00	0.00-1.01	3.00-5.00	5.00-7.00	7.00-9.00	9.00-11.00	11.00-13.00	0.00-1.00
SAMPLE LOCATION	TB03	TB03	CC01	CC02	TB01	TB01	TB01	TB01	TB01	TB02
SAMPLE DATE	7/2/1997	7/2/1997	7/18/1997	7/19/1997	6/24/1997	6/24/1997	6/24/1997	6/24/1997	6/24/1997	6/24/1997
PARAMETER										
2-Chlorophenol	< 240	< 240	< 4210	R	R	< 2220	< 12500	R	< 26600	< 10500
2-Methylnaphthalene	340	< 240	< 4210	< 2200	R	< 2220	< 12500	R	< 26600	< 10500
2-Naphthylamine	< 920	< 920	< 16000	< 8360	R	< 8440	< 47400	R	< 101000	< 39700
2-Nitroaniline	< 290	< 290	< 5050	< 2640	R	< 2670	< 15000	R	< 31900	< 12600
2-Nitrodiphenylamine	< 240	< 240	< 4210	< 2200	R	< 2220	< 12500	R	< 26600	< 10500
2-Nitrophenol	< 240	< 240	< 4210	R	R	< 2220	< 12500	R	< 26600	< 10500
2-Picoline	< 890	< 900	< 15600	< 8140	R	< 8220	< 46200	R	< 98300	< 38700
3,3'-Dichlorobenzidine	< 1470	< 1480	< 25700	< 13400	R	< 13600	< 76200	R	< 162000	< 63800
3-Methylcholanthrene	< 240	< 240	< 4210	< 2200	R	< 2220	< 12500	R	< 26600	< 10500
3-Nitroaniline	< 240	< 240	< 4210	< 2200	R	< 2220	< 12500	R	< 26600	< 10500
4,4' Methylenedianiline	< 2130	< 2140	< 37000 J	< 19400	R	< 19600	< 110000	R	< 234000	< 92000
4,6-Dinitro-o-cresol	< 240	< 240	< 4210	R	R	< 2220	< 12500	R	< 26600	< 10500
4-Aminobiphenyl	< 240	< 240	< 4210	< 2200	R	< 2220	< 12500	R	< 26600	< 10500
4-Aminodiphenylamine	< 600	< 610	< 10500	< 5500	R	< 5550	< 31200	R	< 66400	< 26200
4-Bromophenyl phenyl ether	< 240	< 240	< 4210	< 2200	R	< 2220	< 12500	R	< 26600	< 10500
4-Chloro-m-cresol	< 240	< 240	< 4210	R	R	< 2220	< 12500	R	< 26600	< 10500
4-Chlorophenylphenyl ether	< 240	< 240	< 4210	< 2200	R	< 2220	< 12500	R	< 26600	< 10500
4-Nitroaniline	< 240	< 240	< 4210	< 2200	R	< 2220	< 12500	R	< 26600	< 10500
4-Nitrophenol	< 240 J	< 240 J	< 4210 J	R	R	< 2220 J	< 12500 J	R	< 26600 J	< 10500 J
5-Nitro-o-toluidine	< 240	< 240	< 4210	< 2200	R	< 2220	< 12500	R	< 26600	< 10500
7,12-dimethylbenz[a]anthracene	< 240	< 240	< 4210	< 2200	R	< 2220	< 12500	R	< 26600	< 10500
Acenaphthene	< 240	< 240	< 4210	< 2200	R	< 2220	< 12500	R	< 26600	< 10500
Acenaphthylene	< 240	< 240	< 4210	< 2200	R	< 2220	< 12500	R	< 26600	< 10500
Acetophenone	< 310	< 320	< 5470	< 2860	R	< 2890	< 16200	R	< 34500	< 13600
Aniline	< 340	< 340	7150 J	< 3080	R	3110	< 17500	R	< 37200	30000
Anthracene	< 240	< 240	< 4210	< 2200	R	< 2220	< 12500	R	< 26600	< 10500
Azobenzene	< 290	< 290	< 5050	< 2640	R	< 2670	< 15000	R	< 31900	< 12600
Benzidine	< 3860	< 3890	< 67300	< 35200	R	< 35500	< 200000	R	< 425000	< 167000
Benzo(a)anthracene	< 310	< 320	< 5470	< 2860	R	< 2890	< 16200	R	< 34500	< 13600
Benzo(a)pyrene	260	< 240	< 4210	< 2200	R	< 2220	< 12500	R	< 26600	< 10500
Benzo(b)fluoranthene	420	< 240	< 4210	< 2200	R	< 2220	< 12500	R	< 26600	< 10500
Benzo(ghi)perylene	< 270	< 270	< 4630	< 2420	R	< 2440	< 13700	R	< 29200	< 11500
Benzo(k)fluoranthene	< 240	< 240	< 4210	< 2200	R	< 2220	< 12500	R	< 26600	< 10500
Benzoic Acid	< 240	< 240	< 4210	< 2200	R	< 2220	< 12500	R	< 26600	< 10500
Benzyl Alcohol	< 240	< 240	< 4210	R	R	< 2220	< 12500	R	< 26600	< 10500
Benzyl butyl phthalate	< 240	< 240	< 4210	< 2200	R	< 2220	< 12500	R	< 26600	< 10500
Bis(2-chloroethoxymethane)	< 240	< 240	< 4210	< 2200	R	< 2220	< 12500	R	< 26600	< 10500
Bis(2-chloroethyl)ether	< 240	< 240	< 4210	< 2200	R	< 2220	< 12500	R	< 26600	< 10500
Bis(2-chloroisopropyl)ether	< 240	< 240	< 4210	< 2200	R	< 2220	< 12500	R	< 26600	< 10500
Bis(2-ethylhexyl) phthalate	440 B	340 B	8040	< 2640	R	< 2670	< 15000	R	< 31900	< 12600
Bisphenol A	3650	4090	146000 J	27500 J	379000 J	< 4000	792000	R	1060000	165000
Carbazole	< 1210	< 1220	R	< 11000	R	< 11100	< 62400	R	< 133000	< 52300
Chrysene	290	< 240	< 4210	< 2200	R	< 2220	< 12500	R	< 26600	< 10500
Cyclohexanone	< 240	< 240	< 4210	< 2200	R	8880	< 12500	R	< 26600	< 10500
Di-n-butyl phthalate	490 B	510 B	< 4210	< 2200	R	< 2220	< 12500	R	< 26600	< 10500
Di-n-octyl phthalate	< 240	< 240	< 4210	< 2200	R	< 2220	< 12500	R	< 26600	< 10500
Dibenzo(a,h)anthracene	< 240	< 240	< 4210	< 2200	R	< 2220	< 12500	R	< 26600	< 10500
Dibenzofuran	< 240	< 240	< 4210	< 2200	R	< 2220	< 12500	R	< 26600	< 10500
Diethyl Phthalate	< 240	< 240	< 4210	< 2200	R	< 2220	< 12500	R	< 26600	< 10500
Dimethylphthalate	< 240	< 240	< 4210	< 2200	R	< 2220	< 12500	R	< 26600	< 10500
Diphenylamine	NA	NA	< 7570	< 3960	R	< 4000	< 22500	R	< 47800	< 18800
Ethyl Methane Sulfonate	< 430	< 440	< 4210	< 2200	R	< 2220	< 12500	R	< 26600	< 10500
Fluoranthene	470	< 240	< 4210 J	< 2200 J	R	< 2220 J	< 12500 J	R	< 26600 J	< 10500 J
Fluorene	< 240 J	< 240 J	R	< 2420	R	< 2440	< 13700	R	< 29200	< 11500
Heptachlor	< 270	< 270	< 4210	< 2200	R	< 2220	< 12500	R	< 26600	< 10500
Hexachlorobenzene	< 240	< 240	< 4210	< 2200	R	< 2220	< 12500	R	< 26600	< 10500
Hexachlorobutadiene	< 240	< 240	< 4210	< 2200	R	< 2220	< 12500	R	< 26600	< 10500

TABLE 4.2-1
Soil Analytical Results for
SWMU Group A: SWMUs 1, 2, 3, and 4

SAMPLE ID	SM002-TB03-0305	SM002-TB03-1517	SM003-CC01-0001	SM003-CC01-0002	SM003-TB01-0305	SM003-TB01-0507	SM003-TB01-0709	SM003-TB01-0911	SM003-TB01-1113	SM003-TB02-0001
SAMPLE DEPTH(ft)	3.00-5.00	15.00-17.00	0.00-1.00	0.00-1.01	3.00-5.00	5.00-7.00	7.00-9.00	9.00-11.00	11.00-13.00	0.00-1.00
SAMPLE LOCATION	TB03	TB03	CC01	CC02	TB01	TB01	TB01	TB01	TB01	TB02
SAMPLE DATE	7/2/1997	7/2/1997	7/18/1997	7/19/1997	6/24/1997	6/24/1997	6/24/1997	6/24/1997	6/24/1997	6/24/1997
PARAMETER										
Hexachlorocyclopentadiene	< 240	< 240	< 4210	< 2200	R	< 2220	< 12500	R	< 26600	< 10500
Hexachloroethane	< 240	< 240	< 4210	< 2200	R	< 2220	< 12500	R	< 26600	< 10500
Indeno(1,2,3-cd)pyrene	< 240	< 240	< 4210	< 2200	R	< 2220	< 12500	R	< 26600	< 10500
Isophorone	< 240	< 240	< 4210	< 2200	R	< 2220	< 12500	R	< 26600	< 10500
Methyl methane sulfonate	< 240	< 240	< 4210	< 2200	R	< 2220	< 12500	R	< 26600	< 10500
N-Nitrosodibutylamine	< 240	< 240	< 4210 J	< 2200 J	R	< 2220 J	< 12500 J	R	< 26600 J	< 10500 J
N-Nitrosodimethylamine	< 240 J	< 240 J	< 5470	< 2860	R	< 2890	< 16200	R	< 34500	< 13600
N-Nitrosodiphenylamine	< 310	< 320	< 4210	< 2200	R	< 2220	< 12500	R	< 26600	< 10500
N-Nitrosodipropylamine	< 240	< 240	< 4210	< 2200	R	< 2220	< 12500	R	< 26600	< 10500
N-Nitrosopiperidine	< 240	< 240	< 4210	< 2200	R	< 2220	< 12500	R	< 26600	< 10500
Naphthalene	360	< 240	< 4210	< 2200	R	< 2220	< 12500	R	< 26600	< 10500
Nitrobenzene	< 240	< 240	< 7150	< 3740	R	< 3780	< 21200	R	< 45200	< 17800
Pentachlorobenzene	< 410	< 410	< 4210	< 2200	R	< 2220	< 12500	R	< 26600	< 10500
Pentachloronitrobenzene	< 240	< 240	< 4210	R	R	< 2220	< 12500	R	< 26600	< 10500
Pentachlorophenol	< 240	< 240	< 4210	< 2200	R	< 2220	< 12500	R	< 26600	< 10500
Phenacetin	< 240	< 240	< 4210	< 2200	R	< 2220	< 12500	R	< 26600	< 10500
Phenanthrene	410	< 240	< 2520 J	6010 J	R	8290	< 7490	R	< 15900	< 6280
Phenol	< 140	< 150	< 4210	< 2200	R	< 2220	< 12500	R	< 26600	< 10500
Pyrene	350	< 240	< 4630	< 2420	R	< 2440	< 13700	R	< 29200	< 11500
Pyridine	< 270	< 270	< 4210	< 2200	R	< 2220	< 12500	R	< 26600	< 10500
Trimethylphosphate	< 240	< 240	< 21000	< 11000	R	< 11100	< 62400	R	< 133000	< 52300
Triphenylphosphate	< 1210	< 1220	< 6310 J	R	R	< 3330	< 18700	R	< 39800	< 15700
m,p-Cresol	< 360	< 360	< 4210	< 2200	R	< 2220	< 12500	R	< 26600	< 10500
m-Nitrotoluene	< 240	< 240	< 8410	< 4400	R	< 4440	< 25000	R	< 53100	< 20900
m-Toluidine	< 480	< 490	28400 J	< 11200	R	< 11300	< 63700	R	< 135000	< 53300
o,p-Toluidine	< 1230	< 1240	< 4210	R	R	< 2220	< 12500	R	< 26600	< 10500
o-Cresol	< 240	< 240	< 4210	< 2200	R	< 2220	< 12500	R	< 26600	< 10500
o-Nitrotoluene	< 240	< 240	178000	14700 J	R	63100	147000	R	< 26600	572000
p-Chloroaniline	< 240	720	< 4210	< 2200	R	< 2220	< 12500	R	< 26600	< 10500
p-Dimethylaminoazobenzene	< 240	< 240	< 6310	R	R	< 3330	< 18700	R	< 39800	< 15700
p-Nitrotoluene	< 360	< 360	NA	NA	NA	NA	NA	NA	NA	NA
Metals (µg/kg)										
Antimony	< 483	< 487	< 410	< 440	< 490	< 444	< 499	< 593	< 531	< 418
Cadmium	1780	< 490	520 J	1840	3870	< 440	3010	3920	1790	3230
Chromium	23000	9680	7840 J	164000	413000	66000	138000	260000	55200	446000
Lead	52200	7070	3733 J	36200	39000	16800	24700	94900	35900	34500
Nickel	27200	131000	6570 J	162000	357000	54600	277000	398000	121000	254000
Miscellaneous (µg/kg)										
Percent Moisture	17 %	18 %	2.5 %	9.1 %	22 %	10 %	20 %	33 %	25 %	4.4 %
Total Organic Carbon	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH in Water (Solid Sample)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
NA=Not analyzed
B=Blank contamination
J=Estimated concentration
K=Estimated concentration (high)
R=Rejected data
U=Nondetect at reported limit
<=Nondetect at reported limit

BLE 4.2-1
S tical Results for
SWMU Group A: SWMUs 1, 2, 3, and 4

SAMPLE ID	SM003-TB02-0305	SM004-TB01-0001	SM004-TB01-0305	SM004-TB01-1315	SM004-TB01-1921	SM004-TB01-2527	SM004-TB01-2729	SM004-TB01-2931	SM004-TB01-2931RS	SM004-TB02-0001
SAMPLE DEPTH(ft)	3.00-5.00	0.00-1.00	3.00-5.00	13.00-15.00	19.00-21.00	25.00-27.00	27.00-29.00	29.00-31.00	29.00-31.00	0.00-1.00
SAMPLE LOCATION	TB02	TB01	TB01	TB01	TB01	TB01	TB01	TB01	TB01	TB02
SAMPLE DATE	6/24/1997	7/2/1997	7/2/1997	7/2/1997	7/2/1997	7/2/1997	7/2/1997	7/2/1997	7/18/1997	6/27/1997
PARAMETER										
Volatiles (µg/kg)										
1,1,1,2-Tetrachloroethane	< 277	< 283	< 305	< 335	< 12900	< 309	< 296	< 328	NA	< 293
1,1,1-Trichloroethane	< 144	< 147	< 158	< 174	< 6460	< 161	< 154	< 170	NA	< 153
1,1,2,2-Tetrachloroethane	< 144	< 147	< 158	< 174	< 6460	< 161	< 154	< 170	NA	< 153
1,1,2-Trichloroethane	< 277	< 283	< 305	< 335	< 12900	< 309	< 296	< 328	NA	< 293
1,1-Dichloroethane	< 144	< 147	< 158	< 174	< 6460	< 161	< 154	< 170	NA	< 153
1,1-Dichloroethene	< 277	< 283	< 305	< 335	< 12900	< 309	< 296	< 328	NA	< 293
1,1-Dichloropropene	< 144	< 147	< 158	< 174	< 6460	< 161	< 154	< 170	NA	< 153
1,2,3-Trichlorobenzene	< 144	< 147	< 158	< 174	< 6460	< 161	< 154	< 170	NA	< 153
1,2,3-Trichloropropane	< 144	< 147	< 158	< 174	< 6460	< 161	< 154	< 170	NA	< 153
1,2,4-Trichlorobenzene	< 144	< 147	< 158	< 174	< 6460	< 161	< 154	< 170	NA	< 153
1,2,4-Trimethylbenzene	< 144	< 147	< 158	< 174	< 6460	< 161	< 154	< 170	NA	< 153
1,2-Dibromo-3-chloropropane	< 277	< 283	< 305	< 335	< 12900	< 309	< 296	< 328	NA	< 293
1,2-Dibromoethane	< 144	< 147	< 158	< 174	< 6460	< 161	< 154	< 170	NA	< 153
1,2-Dichlorobenzene	1780	464 J	755 J	< 335	4130000	104000	85100	55000	NA	352 J
1,2-Dichloroethane	< 277	< 283	< 305	< 335	< 12900	< 309	< 296	< 328	NA	< 293
1,2-Dichloropropane	< 422	< 430	< 463	< 509	< 19400	< 470	< 449	< 498	NA	< 446
1,3,5-Trimethylbenzene	< 144	< 147	< 158	< 174	< 6460	< 161	< 154	< 170	NA	< 153
1,3-Dichlorobenzene	< 277	< 283	< 305	< 335	18100 J	358 J	307 J	< 328	NA	< 293
1,3-Dichloropropane	< 144	< 147	< 158	< 174	< 6460	< 161	< 154	< 170	NA	< 153
1,4-Dichlorobenzene	< 277	< 283	< 305	< 335	258000	5930	5200	3150	NA	< 293
2,2-Dichloropropane	< 144	< 147	< 158	< 174	< 6460	< 161	< 154	< 170	NA	< 153
2-Butanone	< 977	< 997	< 1070	< 1180	< 45200	< 1090	< 1040	< 1150	NA	< 1030
2-Chloroethyl Vinyl Ether	< 277	< 283	< 305	< 335	< 12900	< 309	< 296	< 328	NA	< 293
2-Chlorotoluene	< 144	< 147	< 158	< 174	< 6460	< 161	< 154	< 170	NA	< 153
2-Hexanone	< 422	< 430	< 463	< 509	< 19400	< 470	< 449	< 498	NA	< 446
4-Chlorotoluene	< 144	< 147	< 158	< 174	< 6460	< 161	< 154	< 170	NA	< 153
4-Methyl-2-pentanone	< 422	< 430	< 463	< 509	< 19400	< 470	< 449	< 498	NA	< 446
Acetone	< 977	< 997	< 1070	< 1180	< 45200	< 1090	< 1040	< 1150	NA	< 1030
Acrolein	< 2770	< 2830	< 3050	< 3350	< 129000	< 3090	< 2960	< 3280	NA	< 2930
Acrylonitrile	< 1440	< 1470	< 1580	< 1740	< 64600	< 1610	< 1540	< 1700	NA	< 1530
Allyl Chloride	< 144	< 147	< 158	< 174	< 6460	< 161	< 154	< 170	NA	< 153
Benzene	< 144	< 147	< 158	< 174	< 6460	< 161	< 154	< 170	NA	540 J
Bromobenzene	< 144	< 147	< 158	< 174	< 6460	< 161	< 154	< 170	NA	< 153
Bromochloromethane	< 144	< 147	< 158	< 174	< 6460	< 161	< 154	< 170	NA	< 153
Bromodichloromethane	< 277	< 283	< 305	< 335	< 12900	< 309	< 296	< 328	NA	< 293
Bromoform	< 144	< 147	< 158	< 174	< 6460	< 161	< 154	< 170	NA	< 153
Bromomethane	< 422	< 430	< 463	< 509	< 19400	< 470	< 449	< 498	NA	< 446
Carbon Disulfide	< 422	< 430	< 463	< 509	< 19400	< 470	< 449	< 498	NA	< 446
Carbon Tetrachloride	< 144	< 147	< 158	< 174	< 6460	< 161	< 154	< 170	NA	< 153
Chlorobenzene	6210	328 J	< 158	< 174	123000	667 J	638 J	1100	NA	< 153 J
Chloroethane	< 422	< 430	< 463	< 509	< 19400	< 470	< 449	< 498	NA	< 446
Chloroform	< 144	< 147	< 158	< 174	< 6460	< 161	< 154	< 170	NA	< 153

TABLE 4.2-1
Soil Analytical Results for
SWMU Group A: SWMUs 1, 2, 3, and 4

SAMPLE ID	SM003-TB02-0305	SM004-TB01-0001	SM004-TB01-0305	SM004-TB01-1315	SM004-TB01-1921	SM004-TB01-2527	SM004-TB01-2729	SM004-TB01-2931	SM004-TB01-2931RS	SM004-TB02-0001
SAMPLE DEPTH(ft)	3.00-5.00	0.00-1.00	3.00-5.00	13.00-15.00	19.00-21.00	25.00-27.00	27.00-29.00	29.00-31.00	29.00-31.00	0.00-1.00
SAMPLE LOCATION	TB02	TB01	TB01	TB01	TB01	TB01	TB01	TB01	TB01	TB02
SAMPLE DATE	6/24/1997	7/2/1997	7/2/1997	7/2/1997	7/2/1997	7/2/1997	7/2/1997	7/2/1997	7/18/1997	6/27/1997
PARAMETER										
Chloromethane	< 277	< 283	< 305	< 335	< 12900	< 309	< 296	< 328	NA	< 293
Dibromochloromethane	< 144	< 147	< 158	< 174	< 6460	< 161	< 154	< 170	NA	< 153
Dibromomethane	< 144	< 147	< 158	< 174	< 6460	< 161	< 154	< 170	NA	< 153
Dichlorodifluoromethane	< 277	< 283	< 305	< 335	< 12900	< 309	< 296	< 328	NA	< 293
Ethyl Methacrylate	< 144	< 147	< 158	< 174	< 6460	< 161	< 154	< 170	NA	< 153
Ethylbenzene	< 144	< 147	< 158	< 174	< 6460	< 161	< 154	< 170	NA	< 153
Freon 113	< 277	< 283	< 305	< 335	< 12900	< 309	< 296	< 328	NA	880 JB
Freon 141b	< 144	< 147	< 158	< 174	< 6460	< 161	< 154	< 170	NA	< 153
Hexachlorobutadiene	< 277	< 283	< 305	< 335	< 12900	< 309	< 296	< 328	NA	< 293
Isopropylbenzene	< 422	< 430	< 463	< 509	< 19400	< 470	< 449	< 498	NA	< 446
Methyl Iodide	< 422	< 430	< 463	< 509	< 19400	< 470	< 449	< 498	NA	< 446
Methylene Chloride	< 277	< 283	< 305	< 335	< 12900	< 309	< 296	< 328	NA	< 293
Naphthalene	< 144	< 147	< 158	< 174	< 6460	< 161	< 154	< 170	NA	< 153
Styrene	< 144	< 147	< 158	< 174	< 6460	< 161	< 154	< 170	NA	< 153
Tetrachloroethene	< 144	< 147	< 158	< 174	< 6460	< 161	< 154	< 170	NA	< 153
Toluene	< 144	< 147	< 158	< 174	< 6460	< 161	< 154	< 170	NA	200 J
Trichloroethene	< 144	< 147	< 158	< 174	< 6460	< 161	< 154	< 170	NA	< 153
Trichlorofluoromethane	< 277	< 283	< 305	< 335	< 12900	< 309	< 296	< 328	NA	< 293
Vinyl Acetate	< 422	< 430	< 463	< 509	< 19400	< 470	< 449	< 498	NA	< 446
Vinyl Chloride	< 277	< 283	< 305	< 335	< 12900	< 309	< 296	< 328	NA	< 293
cis-1,2-Dichloroethene	< 277	< 283	< 305	< 335	< 12900	< 309	< 296	< 328	NA	< 293
cis-1,3-Dichloropropene	< 144	< 147	< 158	< 174	< 6460	< 161	< 154	< 170	NA	< 153
m+p-Xylene	< 144	< 147	< 158	< 174	< 6460	< 161	< 154	< 170	NA	< 153
n-Butylbenzene	< 144	< 147	< 158	< 174	< 6460	< 161	< 154	< 170	NA	< 153
n-Propylbenzene	< 144	< 147	< 158	< 174	< 6460	< 161	< 154	< 170	NA	< 153
o-Xylene	< 144	< 147	< 158	< 174	< 6460	< 161	< 154	< 170	NA	< 153
p-Isopropyltoluene	< 144	< 147	< 158	< 174	142000	3460	2360	1570	NA	< 153 J
sec-Butylbenzene	< 144	< 147	< 158	< 174	< 6460	< 161	< 154	< 170	NA	< 153
tert-Butylbenzene	< 144	< 147	< 158	< 174	< 6460	< 161	< 154	< 170	NA	< 153
trans-1,2-Dichloroethene	< 277	< 283	< 305	< 335	< 12900	< 309	< 296	< 328	NA	< 293
trans-1,3-Dichloropropene	< 144	< 147	< 158	< 174	< 6460	< 161	< 154	< 170	NA	< 153
trans-1,4-Dichloro-2-butene	< 1440	< 1470	< 1580	< 1740	< 64600	< 1610	< 1540	< 1700	NA	< 1530
Semivolatiles (µg/kg)										
1,2,3-Trichlorobenzene	< 2660	< 310	< 360	< 430	< 4010	< 7330	< 340	NA	< 350	< 660
1,2,4,5-Tetrachlorobenzene	< 2660	< 310	< 360	< 430	< 4010	< 7330	< 340	NA	< 350	< 660
1,2,4-Trichlorobenzene	< 2220	< 260	< 300	< 360	< 3340	< 6110	580	NA	660	< 550
1,2-Dichlorobenzene	< 2220	510 J	500 J	1290 J	434000 J	691000 J	194000 J	NA	95100 J	650 J
1,3-Dichlorobenzene	< 2220	< 260	< 300	< 360	< 3340	< 6110	3160	NA	3310	< 550
1,4-Dichlorobenzene	< 2220	< 260	350	< 360	44100	74600	49900	NA	44000	< 550
1-Chloronaphthalene	< 5550	< 640	< 740	< 900	< 8350	< 15300	< 700	NA	< 740	< 1380
1-Methylnaphthalene	< 2220	< 260	< 300	< 360	< 3340	< 6110	< 280	NA	< 300	< 550
1-Naphthylamine	< 7550	< 870	< 1010	< 1220	< 11400	< 20800	< 950	NA	< 1000	< 1870
2,3,4,6-Tetrachlorophenol	< 4440	< 510	< 590	< 720	< 6680	< 12200	< 560	NA	< 590	< 1100
2,3-Dichloroaniline	< 2220	< 260	< 300	< 360	< 3340	< 6110	< 280	NA	< 300	< 550
2,4,5-Trichlorophenol	< 2220	< 260	< 300	< 360	< 3340	< 6110	< 280	NA	< 300	< 550
2,4,6-Trichlorophenol	< 2220	< 260	< 300	< 360	< 3340	< 6110	< 280	NA	< 300	< 550
2,4-Dichlorophenol	< 2220	< 260	< 300	< 360	< 3340	< 6110	< 280	NA	< 300	< 550
2,4-Dimethylphenol	< 2220	< 260	< 300	< 360	< 3340	< 6110	< 280	NA	< 300	< 550
2,4-Dinitrophenol	< 13800	< 1590	< 1840	< 2230	< 20700	< 37900	< 1730	NA	< 1830	< 3420
2,4-Dinitrotoluene	< 2220	< 260	< 300	480	< 3340	< 6110	2000	NA	810	< 550
2,4-Toluenediamine	< 11100	< 1280	< 1480	< 1800	< 16700	< 30600	< 1400	NA	< 1480	< 2760
2,6-Dichlorophenol	< 2220	< 260	< 300	< 360	< 3340	< 6110	< 280	NA	< 300	< 550
2,6-Dinitrotoluene	< 2220	< 260	4780	< 360	< 3340	97200	400	NA	< 300	610
2-Chloronaphthalene	< 2220	< 260	< 300	< 360	< 3340	< 6110	< 280	NA	< 300	< 550

BLE 4.2-1
S tical Results for
SWMU Group A: SWMUs 1, 2, 3, and 4

SAMPLE ID	SM003-TB02-0305	SM004-TB01-0001	SM004-TB01-0305	SM004-TB01-1315	SM004-TB01-1921	SM004-TB01-2527	SM004-TB01-2729	SM004-TB01-2931	SM004-TB01-2931RS	SM004-TB02-0001
SAMPLE DEPTH(ft)	3.00-5.00	0.00-1.00	3.00-5.00	13.00-15.00	19.00-21.00	25.00-27.00	27.00-29.00	29.00-31.00	29.00-31.00	0.00-1.00
SAMPLE LOCATION	TB02	TB01	TB01	TB01	TB01	TB01	TB01	TB01	TB01	TB02
SAMPLE DATE	6/24/1997	7/2/1997	7/2/1997	7/2/1997	7/2/1997	7/2/1997	7/2/1997	7/2/1997	7/18/1997	6/27/1997
PARAMETER										
2-Chlorophenol	< 2220	< 260	< 300	< 360	< 3340	< 6110	< 280	NA	< 300	< 550
2-Methylnaphthalene	< 2220	< 260	< 300	370	< 3340	< 6110	< 280	NA	< 300	< 550
2-Naphthylamine	< 8430	< 970	< 1130	< 1370	< 12700	< 23200	< 1060	NA	< 1120	< 2090
2-Nitroaniline	< 2660	< 310	< 360	< 430	< 4010	< 7330	< 340	NA	< 350	< 660
2-Nitrodiphenylamine	< 2220	< 260	< 300	< 360	< 3340	< 6110	< 280	NA	< 300	< 550
2-Nitrophenol	< 2220	< 260	< 300	< 360	< 3340	< 6110	< 280	NA	< 300	< 550
2-Picoline	< 8210	< 950	< 1100	< 1330	< 12400	< 22600	< 1030	NA	< 1090	< 2040
3,3'-Dichlorobenzidine	< 13500	< 1560	< 1810	< 2190	< 20400	< 37300	< 1700	NA	< 1800	< 3360
3-Methylcholanthrene	< 2220	< 260	< 300	< 360	< 3340	< 6110	< 280	NA	< 300	< 550
3-Nitroaniline	< 2220	< 260	< 300	< 360	< 3340	< 6110	< 280	NA	< 300	< 550
4,4' Methylenedianiline	< 19500	< 2260 J	6850 J	< 3160 J	< 29400 J	< 53800 J	< 2460 J	NA	< 2600 J	< 4850 J
4,6-Dinitro-o-cresol	< 2220	< 260	< 300	< 360	< 3340	< 6110	< 280	NA	< 300	< 550
4-Aminobiphenyl	< 2220	< 260	< 300	< 360	< 3340	< 6110	< 280	NA	< 300	< 550
4-Aminodiphenylamine	< 5550	< 640	< 740	< 900	< 8350	< 15300	< 700	NA	< 740	< 1380
4-Bromophenyl phenyl ether	< 2220	< 260	< 300	< 360	< 3340	< 6110	< 280	NA	< 300	< 550
4-Chloro-m-cresol	< 2220	< 260	< 300	< 360	< 3340	< 6110	< 280	NA	< 300	< 550
4-Chlorophenylphenyl ether	< 2220	< 260	< 300	< 360	< 3340	< 6110	< 280	NA	< 300	< 550
4-Nitroaniline	< 2220	< 260	< 300	< 360	< 3340	< 6110	< 280	NA	< 300	< 550
4-Nitrophenol	< 2220 J	< 260 J	< 300 J	< 360 J	< 3340 J	< 6110 J	< 280 J	NA	< 300 J	< 550 J
5-Nitro-o-toluidine	< 2220	< 260	< 300	< 360	< 3340	< 6110	< 280	NA	< 300	< 550
7,12-dimethylbenz[a]anthracene	< 2220	< 260	< 300	< 360	< 3340	< 6110	< 280	NA	< 300	< 550
Acenaphthene	< 2220	< 260	< 300	< 360	< 3340	< 6110	< 280	NA	< 300	< 550
Acenaphthylene	< 2220	< 260	< 300	< 360	< 3340	< 6110	< 280	NA	< 300	< 550
Acetophenone	< 2890	< 330	< 390	< 470	< 4340	< 7950	< 360	NA	< 380	< 720
Aniline	< 3110	520 J	< 420 J	< 500 J	< 4670 J	< 8560 J	< 390 J	NA	< 410 J	< 770 J
Anthracene	< 2220	< 260	< 300	< 360	< 3340	< 6110	< 280	NA	< 300	< 550
Azobenzene	< 2660	< 310	< 360	< 430	< 4010	< 7330	< 340	NA	< 350	< 660
Benzidine	< 35500	< 4100	< 4750	< 5750	< 53400	< 97800	< 4470	NA	< 4720	< 8820
Benzo(a)anthracene	< 2890	< 330	< 390	< 470	< 4340	< 7950	< 360	NA	< 380	< 720
Benzo(a)pyrene	< 2220	< 260	< 300	< 360	< 3340	< 6110	< 280	NA	< 300	< 550
Benzo(b)fluoranthene	< 2220	< 260	< 300	< 360	< 3340	< 6110	< 280	NA	< 300	< 550
Benzo(ghi)perylene	< 2440	< 280	< 330	< 400	< 3670	< 6720	< 310	NA	< 320	< 610
Benzo(k)fluoranthene	< 2220	< 260	< 300	< 360	< 3340	< 6110	< 280	NA	< 300	< 550
Benzoic Acid	< 2220	< 260	< 300	< 360	< 3340	< 6110	< 280	NA	< 300	< 550
Benzyl Alcohol	< 2220	< 260	< 300	< 360	< 3340	< 6110	820	NA	< 300	< 550
Benzyl butyl phthalate	< 2220	< 260	< 300	< 360	< 3340	< 6110	< 280	NA	< 300	< 550
Bis(2-chloroethoxymethane)	< 2220	< 260	< 300	< 360	< 3340	< 6110	< 280	NA	< 300	< 550
Bis(2-chloroethyl)ether	< 2220	< 260	< 300	< 360	< 3340	< 6110	< 280	NA	< 300	< 550
Bis(2-chloroisopropyl)ether	< 2220	< 260	< 300	< 360	< 3340	< 6110	< 280	NA	< 300	< 550
Bis(2-ethylhexyl) phthalate	< 2660	350 B	690 B	510 B	< 4010	< 7330	340 B	NA	< 350	< 660
Bisphenol A	22000	10600 J	860 J	4560 J	< 6010 J	< 11000 J	1390 J	NA	10200 J	3350 JB
Carbazole	< 11100	< 1280	< 1480	< 1800	< 16700	< 30600	< 1400	NA	R	< 2760
Chrysene	< 2220	< 260	< 300	< 360	< 3340	< 6110	< 280	NA	< 300	< 550
Cyclohexanone	< 2220	< 260	< 300	< 360	< 3340	< 6110	< 280	NA	< 300	< 550
Di-n-butyl phthalate	< 2220	970	10500 B	2300 B	< 3340	< 6110	1540 B	NA	890 B	21400 B
Di-n-octyl phthalate	< 2220	520	< 300	< 360	< 3340	< 6110	< 280	NA	< 300	< 550
Dibenzo(a,h)anthracene	< 2220	< 260	< 300	< 360	< 3340	< 6110	< 280	NA	< 300	< 550
Dibenzofuran	< 2220	< 260	< 300	< 360	< 3340	< 6110	< 280	NA	< 300	< 550
Diethyl Phthalate	< 2220	< 260	< 300	< 360	< 3340	< 6110	< 280	NA	< 300	< 550
Dimethylphthalate	< 2220	< 260	< 300	< 360	< 3340	< 6110	< 280	NA	< 300	< 550
Diphenylamine	< 4000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethyl Methane Sulfonate	< 2220	< 460	< 530	< 650	< 6010	< 11000	< 500	NA	< 530	< 990
Fluoranthene	< 2220 J	< 260	< 300	380	< 3340	< 6110	< 280	NA	< 300	< 550
Fluorene	< 2440	< 260 J	< 300 J	< 360 J	< 3340 J	< 6110 J	< 280 J	NA	< 300 J	< 550 J
Heptachlor	< 2220	< 280	< 330	< 400	< 3670	< 6720	< 310	NA	R	< 610
Hexachlorobenzene	< 2220	< 260	< 300	< 360	< 3340	< 6110	< 280	NA	< 300	< 550
Hexachlorobutadiene	< 2220	< 260	< 300	< 360	< 3340	< 6110	< 280	NA	< 300	< 550

TABLE 4.2-1
Soil Analytical Results for
SWMU Group A: SWMUs 1, 2, 3, and 4

SAMPLE ID	SM003-TB02-0305	SM004-TB01-0001	SM004-TB01-0305	SM004-TB01-1315	SM004-TB01-1921	SM004-TB01-2527	SM004-TB01-2729	SM004-TB01-2931	SM004-TB01-2931RS	SM004-TB02-0001
SAMPLE DEPTH(ft)	3.00-5.00	0.00-1.00	3.00-5.00	13.00-15.00	19.00-21.00	25.00-27.00	27.00-29.00	29.00-31.00	29.00-31.00	0.00-1.00
SAMPLE LOCATION	TB02	TB01	TB01	TB01	TB01	TB01	TB01	TB01	TB01	TB02
SAMPLE DATE	6/24/1997	7/2/1997	7/2/1997	7/2/1997	7/2/1997	7/2/1997	7/2/1997	7/2/1997	7/18/1997	6/27/1997
PARAMETER										
Hexachlorocyclopentadiene	< 2220	< 260	< 300	< 360	< 3340	< 6110	< 280	NA	< 300	< 550
Hexachloroethane	< 2220	< 260	< 300	< 360	< 3340	< 6110	< 280	NA	< 300	< 550
Indeno(1,2,3-cd)pyrene	< 2220	< 260	< 300	< 360	< 3340	< 6110	< 280	NA	< 300	< 550
Isophorone	< 2220	< 260	< 300	< 360	< 3340	< 6110	< 280	NA	< 300	< 550
Methyl methane sulfonate	< 2220	< 260	< 300	< 360	< 3340	< 6110	< 280	NA	< 300	< 550
N-Nitrosodibutylamine	< 2220 J	< 260	< 300	< 360	< 3340	< 6110	< 280	NA	< 300	< 550
N-Nitrosodimethylamine	< 2890	< 260 J	< 300 J	< 360 J	< 3340 J	< 6110 J	< 280 J	NA	< 300 J	< 550 J
N-Nitrosodiphenylamine	< 2220	< 330	< 390	< 470	< 4340	< 7950	< 360	NA	< 380	< 720
N-Nitrosodipropylamine	< 2220	< 260	< 300	< 360	< 3340	< 6110	< 280	NA	< 300	< 550
N-Nitrosopiperidine	< 2220	< 260	< 300	< 360	< 3340	< 6110	< 280	NA	< 300	< 550
Naphthalene	< 2220	< 260	< 300	470	< 3340	< 6110	< 280	NA	< 300	< 550
Nitrobenzene	< 3770	< 260	< 300	< 360	< 3340	< 6110	340	NA	870	< 550
Pentachlorobenzene	< 2220	< 440	< 500	< 610	< 5680	< 10400	< 480	NA	< 500	< 940
Pentachloronitrobenzene	< 2220	< 260	< 300	< 360	< 3340	< 6110	< 280	NA	< 300	< 550
Pentachlorophenol	< 2220	< 260	< 300	< 360	< 3340	< 6110	< 280	NA	< 300	< 550
Phenacetin	< 2220	< 260	< 300	< 360	< 3340	< 6110	< 280	NA	< 300	< 550
Phenanthrene	< 1330	< 260	< 300	430	< 3340	< 6110	< 280	NA	< 300	< 550
Phenol	< 2220	5900 J	260 J	< 220 J	< 2000 J	< 3670 J	< 170 J	NA	< 180 J	< 330 J
Pyrene	< 2440	< 260	< 300	370	< 3340	< 6110	< 280	NA	< 300	< 550
Pyridine	< 2220	< 280	< 330	< 400	< 3670	< 6720	< 310	NA	< 320	< 610
Trimethylphosphate	< 11100	< 260	< 300	< 360	< 3340	< 6110	< 280	NA	< 300	< 550
Triphenylphosphate	< 3330	< 1280	< 1480	< 1800	< 16700	< 30600	< 1400	NA	< 1480	< 2760
m,p-Cresol	< 2220	< 380 J	< 450 J	< 540 J	< 5010 J	< 9170 J	< 420 J	NA	< 440 J	< 830 J
m-Nitrotoluene	< 4440	< 260	6620	< 360	< 3340	< 6110	< 280	NA	< 300	< 550
m-Toluidine	< 11300	< 510	< 590	< 720	< 6680	< 12200	< 560	NA	< 590	< 1100
o,p-Toluidine	< 2220	< 1310 J	< 1510 J	< 1830 J	< 17000 J	< 31200 J	< 1430 J	NA	< 1510 J	< 2810 J
o-Cresol	< 2220	< 260	< 300	< 360	< 3340	< 6110	1520	NA	< 300	< 550
o-Nitrotoluene	43300	< 260	< 300	< 360	< 3340	< 6110	< 280	NA	< 300	< 550
p-Chloroaniline	< 2220	59000	510	< 360	< 3340	< 6110	< 280	NA	< 300	< 550
p-Dimethylaminoazobenzene	< 3330	< 260	< 300	< 360	< 3340	< 6110	< 280	NA	< 300	< 550
p-Nitrotoluene	NA	< 380	< 450	< 540	< 5010	< 9170	< 420	NA	< 440	< 830
Metals (µg/kg)										
Antimony	< 444	< 453	< 487	< 536	< 517	< 494	< 473	< 524	NA	< 469
Cadmium	1850	860 J	990 J	1850 J	1070 J	730 J	690 J	790 J	NA	5390 J
Chromium	155000	19860 J	18650 J	32140 J	23510 J	35380 J	14000 J	9330 J	NA	668430 J
Lead	20400	13758 J	23072 J	60725 J	23061 J	13834 J	13017 J	8979 J	NA	53842 J
Nickel	80800	52250 J	34790 J	41730 J	32980 J	23460 J	17730 J	13360 J	NA	492140 J
Miscellaneous (µg/kg)										
Percent Moisture	9.9 %	12 %	18 %	25 %	23 %	19 %	15 %	24 %	18 %	15 %
Total Organic Carbon	NA	7800000	NA	NA	NA	NA	NA	NA	NA	NA
pH in Water (Solid Sample)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
NA=Not analyzed
B=Blank contamination
J=Estimated concentration
K=Estimated concentration (high)
R=Rejected data
U=Nondetect at reported limit
<=Nondetect at reported limit

BLE 4.2-1
S[illegible]tical Results for
SWMU Group A: SWMUs 1, 2, 3, and 4

SAMPLE ID	SM004-TB02-0305	SM004-TB02-1113	SM004-TB02-1113FD	SM004-TB02-1921	SM004-TB02-3941	SM004-TB03-0001	SM004-TB03-0305	SM004-TB03-0305D	SM004-TB03-1719	SM004-TB04-0001
SAMPLE DEPTH(ft)	3.00-5.00	11.00-13.00	11.00-13.00	19.00-21.00	39.00-41.00	0.00-1.00	3.00-5.00	3.00-5.00	17.00-19.00	0.00-1.00
SAMPLE LOCATION	TB02	TB02	TB02	TB02	TB02	TB03	TB03	TB03	TB03	TB04
SAMPLE DATE	6/27/1997	6/27/1997	6/27/1997	6/27/1997	6/30/1997	7/8/1997	7/8/1997	7/8/1997	7/8/1997	7/3/1997
PARAMETER										
Volatiles (µg/kg)										
1,1,1,2-Tetrachloroethane	< 357	< 4370	< 17500	< 298	< 281	< 271	< 293	< 286	< 305	< 282
1,1,1-Trichloroethane	< 185	< 2270	< 8740	< 155	< 146	< 141	< 152	< 149	< 158	< 147
1,1,2,2-Tetrachloroethane	< 185	< 2270	< 8740	< 155	< 146	< 141	< 152	< 149	< 158	< 147
1,1,2-Trichloroethane	< 357	< 4370	< 17500	< 298	< 281	< 271	< 293	< 286	< 305	< 282
1,1-Dichloroethane	< 185	< 2270	< 8740	< 155	< 146	< 141	< 152	< 149	< 158	< 147
1,1-Dichloroethene	< 357	< 4370	< 17500	< 298	< 281	< 271	< 293	< 286	< 305	< 282
1,1-Dichloropropene	< 185	< 2270	< 8740	< 155	< 146	< 141	< 152	< 149	< 158	< 147
1,2,3-Trichlorobenzene	< 185	< 2270	< 8740	< 155	< 146	< 141	< 152	< 149	< 158	< 147
1,2,3-Trichloropropane	< 185	< 2270	< 8740	< 155	< 146	< 141	< 152	< 149	< 158	< 147
1,2,4-Trichlorobenzene	285 J	< 2270	< 8740	< 155	< 146	< 141	< 152	< 149	< 158	< 147
1,2,4-Trimethylbenzene	< 185	< 2270	< 8740	< 155	< 146	< 141	< 152	< 149	< 158	< 147
1,2-Dibromo-3-chloropropane	< 357	< 4370	< 17500	< 298	< 281	< 271	< 293	< 286	< 305	< 282
1,2-Dibromoethane	< 185	< 2270	< 8740	< 155	< 146	< 141	< 152	< 149	< 158	< 147
1,2-Dichlorobenzene	103000 J	402000 J	1470000 J	620 J	7080	326 J	< 293	573 J	< 305	< 282
1,2-Dichloroethane	< 357	< 4370	< 17500	< 298	< 281	< 271	< 293	< 286	< 305	< 282
1,2-Dichloropropane	< 542	< 6640	< 26200	< 453	< 427	< 413	< 445	< 435	< 463	< 429
1,3,5-Trimethylbenzene	< 185	< 2270	< 8740	< 155	< 146	< 141	< 152	< 149	< 158	< 147
1,3-Dichlorobenzene	< 357	< 4370	< 17500	< 298	< 281	< 271	< 293	< 286	< 305	< 282
1,3-Dichloropropane	< 185	< 2270	< 8740	< 155	< 146	< 141	< 152	< 149	< 158	< 147
1,4-Dichlorobenzene	1570	8920 J	33200 J	< 298	< 281	< 271	< 293	< 286	< 305	< 282
2,2-Dichloropropane	< 185	< 2270	< 8740	< 155	< 146	< 141	< 152	< 149	< 158	< 147
2-Butanone	< 1260	< 15400	< 61200	< 1050	< 989	< 955	< 1030	< 1010	< 1070	< 993
2-Chloroethyl Vinyl Ether	< 357	< 4370	< 17500	< 298	< 281	< 271	< 293	< 286	< 305	< 282
2-Chlorotoluene	< 185	< 2270	< 8740	< 155	< 146	< 141	< 152	< 149	< 158	< 147
2-Hexanone	< 542	< 6640	< 26200	< 453	< 427	< 413	< 445	< 435	< 463	< 429
4-Chlorotoluene	< 185	< 2270	< 8740	< 155	< 146	< 141	< 152	< 149	< 158	< 147
4-Methyl-2-pentanone	< 542	< 6640	< 26200	< 453	< 427	< 413	< 445	< 435	< 463	< 429
Acetone	< 1260	< 15400	< 61200	< 1050	< 989	< 955	< 1030	< 1010	< 1070	< 993
Acrolein	< 3570	< 43700	< 175000	< 2980	< 2810	< 2710	< 2930	< 2860	< 3050	< 2820
Acrylonitrile	< 1850	< 22700	< 87400	< 1550	< 1460	< 1410	< 1520	< 1490	< 1580	< 1470
Allyl Chloride	< 185	< 2270	< 8740	< 155	< 146	< 141	< 152	< 149	< 158	< 147
Benzene	1310 J	472000 J	1220000 J	286 J	270 J	< 141	< 152	< 149	< 158	< 147
Bromobenzene	< 185	< 2270	< 8740	< 155	< 146	< 141	< 152	< 149	< 158	< 147
Bromochloromethane	< 185	< 2270	< 8740	< 155	< 146	< 141	< 152	< 149	< 158	< 147
Bromodichloromethane	< 357	< 4370	< 17500	< 298	< 281	< 271	< 293	< 286	< 305	< 282
Bromoform	< 185	< 2270	< 8740	< 155	< 146	< 141	< 152	< 149	< 158	< 147
Bromomethane	< 542	< 6640	< 26200	< 453	< 427	< 413	< 445	< 435	< 463	< 429
Carbon Disulfide	< 542	< 6640	< 26200	< 453	< 427	< 413	< 445	< 435	< 463	< 429
Carbon Tetrachloride	< 185	< 2270	< 8740	< 155	< 146	< 141	< 152	< 149	< 158	< 147
Chlorobenzene	62800 J	2970000 J	7520000 J	6440 J	14600	554 J	222 J	321 J	< 158	< 147
Chloroethane	< 542	< 6640	< 26200	< 453	< 427	< 413	< 445	< 435	< 463	< 429
Chloroform	< 185	< 2270	< 8740	< 155	< 146	< 141	< 152	< 149	< 158	< 147

TABLE 4.2-1
Soil Analytical Results for
SWMU Group A: SWMUs 1, 2, 3, and 4

SAMPLE ID	SM004-TB02-0305	SM004-TB02-1113	SM004-TB02-1113FD	SM004-TB02-1921	SM004-TB02-3941	SM004-TB03-0001	SM004-TB03-0305	SM004-TB03-0305D	SM004-TB03-1719	SM004-TB04-0001
SAMPLE DEPTH(ft)	3.00-5.00	11.00-13.00	11.00-13.00	19.00-21.00	39.00-41.00	0.00-1.00	3.00-5.00	3.00-5.00	17.00-19.00	0.00-1.00
SAMPLE LOCATION	TB02	TB02	TB02	TB02	TB02	TB03	TB03	TB03	TB03	TB04
SAMPLE DATE	6/27/1997	6/27/1997	6/27/1997	6/27/1997	6/30/1997	7/8/1997	7/8/1997	7/8/1997	7/8/1997	7/3/1997
PARAMETER										
Chloromethane	< 357	< 4370	< 17500	< 298	< 281	< 271	< 293	< 286	< 305	< 282
Dibromochloromethane	< 185	< 2270	< 8740	< 155	< 146	< 141	< 152	< 149	< 158	< 147
Dibromomethane	< 185	< 2270	< 8740	< 155	< 146	< 141	< 152	< 149	< 158	< 147
Dichlorodifluoromethane	< 357	< 4370	< 17500	< 298	< 281	< 271	< 293	< 286	< 305	< 282
Ethyl Methacrylate	< 185	< 2270	< 8740	< 155	< 146	< 141	< 152	< 149	< 158	< 147
Ethylbenzene	< 185	2270 J	< 8740	< 155	< 146	< 141	< 152	< 149	< 158	< 147
Freon 113	1060 J	< 4370	< 17500	334 J	708 J	< 271	< 293	< 286	< 305	463 J
Freon 141b	< 185	< 2270	< 8740	< 155	< 146	< 141	< 152	< 149	< 158	< 147
Hexachlorobutadiene	< 357	< 4370	< 17500	< 298	< 281	< 271	< 293	< 286	< 305	< 282
Isopropylbenzene	< 542	< 6640	< 26200	< 453	< 427	< 413	< 445	< 435	< 463	< 429
Methyl Iodide	< 542	< 6640	< 26200	< 453	< 427	< 413	< 445	< 435	< 463	< 429
Methylene Chloride	< 357	< 4370	< 17500	< 298	< 281	< 271	< 293	< 286	< 305	< 282
Naphthalene	< 185	< 2270	< 8740	< 155	< 146	< 141	< 152	< 149	< 158	< 147
Styrene	< 185	< 2270	< 8740	< 155	< 146	< 141	< 152	< 149	< 158	< 147
Tetrachloroethene	< 185	< 2270	< 8740	< 155	< 146	< 141	< 152	< 149	< 158	< 147
Toluene	799 J	804000 J	2270000 J	703 J	2920	< 141	< 152	< 149	< 158	< 147
Trichloroethene	< 185	9440 J	35000 J	< 155	< 146	< 141	< 152	< 149	< 158	< 147
Trichlorofluoromethane	< 357	< 4370	< 17500	< 298	< 281	< 271	< 293	< 286	< 305	< 282
Vinyl Acetate	< 542	< 6640	< 26200	< 453	< 427	< 413	< 445	< 435	< 463	< 429
Vinyl Chloride	< 357	< 4370	< 17500	< 298	< 281	< 271	< 293	< 286	< 305	< 282
cis-1,2-Dichloroethene	< 357	< 4370	< 17500	< 298	< 281	< 271	< 293	< 286	< 305	< 282
cis-1,3-Dichloropropene	< 185	< 2270	< 8740	< 155	< 146	< 141	< 152	< 149	< 158	< 147
m+p-Xylene	< 185	< 2270	8740 J	< 155	< 146	< 141	< 152	< 149	< 158	< 147
n-Butylbenzene	< 185	< 2270	< 8740	< 155	< 146	< 141	< 152	< 149	< 158	< 147
n-Propylbenzene	< 185	< 2270	< 8740	< 155	< 146	< 141	< 152	< 149	< 158	< 147
o-Xylene	< 185	< 2270	< 8740	< 155	< 146	< 141	< 152	< 149	< 158	< 147
p-Isopropyltoluene	1710 J	29700 J	105000 J	< 155 J	258 J	< 141	< 152	< 149	< 158	< 147
sec-Butylbenzene	< 185	< 2270	< 8740	< 155	< 146	< 141	< 152	< 149	< 158	< 147
tert-Butylbenzene	< 185	< 2270	< 8740	< 155	< 146	< 141	< 152	< 149	< 158	< 147
trans-1,2-Dichloroethene	< 357	< 4370	< 17500	< 298	< 281	< 271	< 293	< 286	< 305	< 282
trans-1,3-Dichloropropene	< 185	< 2270	< 8740	< 155	< 146	< 141	< 152	< 149	< 158	< 147
trans-1,4-Dichloro-2-butene	< 1850	< 22700	< 87400	< 1550	< 1460	< 1410	< 1520	< 1490	< 1580	< 1470
Semivolatiles (µg/kg)										
1,2,3-Trichlorobenzene	< 2440 J	< 147000	< 36700	< 3410	< 300	< 280	< 3290	R	< 360	< 3060
1,2,4,5-Tetrachlorobenzene	< 2440 J	< 147000	< 36700	< 3410	< 300	< 280	< 3290	R	< 360	< 3060
1,2,4-Trichlorobenzene	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
1,2-Dichlorobenzene	376000 J	3480000 J	669000 J	< 2840 J	3610 J	< 240 J	< 2740 J	R	< 300 J	2980 J
1,3-Dichlorobenzene	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
1,4-Dichlorobenzene	5290 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
1-Chloronaphthalene	< 5090 J	< 306000	< 76400	< 7100	< 630	< 590	< 6860	R	< 740	< 6370
1-Methylnaphthalene	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
1-Naphthylamine	< 6920 J	< 416000	< 104000	< 9660	< 860	< 800	< 9320	R	< 1010	< 8660
2,3,4,6-Tetrachlorophenol	< 4070 J	< 245000	< 61100	< 5680	< 500	< 470	< 5480	R	< 590	< 5100
2,3-Dichloroaniline	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
2,4,5-Trichlorophenol	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
2,4,6-Trichlorophenol	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
2,4-Dichlorophenol	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
2,4-Dimethylphenol	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
2,4-Dinitrophenol	< 12600 J	< 758000	< 190000	< 17600	< 1570	< 1460	< 17000	R	< 1840	< 15800
2,4-Dinitrotoluene	8830 J	< 122000	< 30600	< 2840	300	< 240	< 2740	R	< 300	< 2550
2,4-Toluenediamine	66500 J	< 611000	< 153000	< 14200	R	< 1180	< 13700	R	< 1480	< 12700
2,6-Dichlorophenol	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
2,6-Dinitrotoluene	2460 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
2-Chloronaphthalene	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550

BLE 4.2-1
S... rtical Results for
SWMU Group A: SWMUs 1, 2, 3, and 4

SAMPLE ID	SM004-TB02-0305	SM004-TB02-1113	SM004-TB02-1113FD	SM004-TB02-1921	SM004-TB02-3941	SM004-TB03-0001	SM004-TB03-0305	SM004-TB03-0305D	SM004-TB03-1719	SM004-TB04-0001
SAMPLE DEPTH(ft)	3.00-5.00	11.00-13.00	11.00-13.00	19.00-21.00	39.00-41.00	0.00-1.00	3.00-5.00	3.00-5.00	17.00-19.00	0.00-1.00
SAMPLE LOCATION	TB02	TB02	TB02	TB02	TB02	TB03	TB03	TB03	TB03	TB04
SAMPLE DATE	6/27/1997	6/27/1997	6/27/1997	6/27/1997	6/30/1997	7/8/1997	7/8/1997	7/8/1997	7/8/1997	7/3/1997
PARAMETER										
2-Chlorophenol	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
2-Methylnaphthalene	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
2-Naphthylamine	< 7730 J	< 465000	< 116000	< 10800	< 960	< 900	< 10400	R	< 1130	< 9680
2-Nitroaniline	< 2440 J	< 147000	< 36700	< 3410	< 300	< 280	< 3290	R	< 360	< 3060
2-Nitrodiphenylamine	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
2-Nitrophenol	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
2-Picoline	< 7530 J	< 452000	< 113000	< 10500	< 930	< 870	< 10200	R	< 1100	< 9430
3,3'-Dichlorobenzidine	< 12400 J	< 746000	< 186000	< 17300	< 1540	< 1440	< 16700	R	< 1810	< 15500
3-Methylcholanthrene	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
3-Nitroaniline	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
4,4' Methylenedianiline	< 17900 J	3420000 J	767000 J	< 25000 J	5910 J	< 2070 J	< 24100 J	R	< 2610 J	< 22400 J
4,6-Dinitro-o-cresol	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
4-Aminobiphenyl	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
4-Aminodiphenylamine	< 5090 J	< 306000	< 76400	< 7100	R	< 590	< 6860	R	< 740	< 6370
4-Bromophenyl phenyl ether	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
4-Chloro-m-cresol	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
4-Chlorophenylphenyl ether	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
4-Nitroaniline	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
4-Nitrophenol	< 2040 J	< 122000 J	< 30600 J	< 2840 J	< 250 J	< 240 J	< 2740 J	R	< 300 J	< 2550 J
5-Nitro-o-toluidine	5050 J	< 122000	< 30600	< 2840	350	< 240	< 2740	R	< 300	< 2550
7,12-dimethylbenz[a]anthracene	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
Acenaphthene	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
Acenaphthylene	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
Acetophenone	< 2650 J	< 159000	< 39700	< 3690	< 330	< 310	< 3560	R	< 390	< 3310
Aniline	8890 J	6330000 J	1520000 J	22000 J	5200 J	< 330 J	< 3840 J	R	< 420 J	< 3570 J
Anthracene	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
Azobenzene	< 2440 J	< 147000	< 36700	< 3410	< 300	< 280	< 3290	R	< 360	< 3060
Benzidine	< 32600 J	< 1960000	< 489000	< 45500	< 4040	< 3770	< 43900	R	< 4750	< 40800
Benzo(a)anthracene	< 2650 J	< 159000	< 39700	< 3690	< 330	< 310	< 3560	R	< 390	< 3310
Benzo(a)pyrene	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
Benzo(b)fluoranthene	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
Benzo(ghi)perylene	< 2240 J	< 134000	< 33600	< 3130	< 280	< 260	< 3020	R	< 330	< 2800
Benzo(k)fluoranthene	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
Benzoic Acid	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
Benzyl Alcohol	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
Benzyl butyl phthalate	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
Bis(2-chloroethoxymethane)	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
Bis(2-chloroethyl)ether	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
Bis(2-chloroisopropyl)ether	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
Bis(2-ethylhexyl) phthalate	< 2440 J	< 147000	< 36700	< 3410	< 300	< 280	< 3290	R	540 B	< 3060
Bisphenol A	232000 J	15900000 J	3090000 J	140000 J	29000 J	< 420 J	5570 J	145000 J	710 J	< 4590 J
Carbazole	< 10200 J	< 611000	< 153000	< 14200	< 1260	< 1180	< 13700	R	< 1480	< 12700
Chrysene	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
Cyclohexanone	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
Di-n-butyl phthalate	< 2040 J	< 122000	< 30600	14000 B	< 250	< 240	< 2740	R	14100	< 2550
Di-n-octyl phthalate	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
Dibenzo(a,h)anthracene	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
Dibenzofuran	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
Diethyl Phthalate	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	840	< 2550
Dimethylphthalate	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
Diphenylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethyl Methane Sulfonate	< 3660 J	< 220000	< 55000	< 5110	< 450	< 420	< 4940	R	< 530	< 4590
Fluoranthene	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
Fluorene	< 2040 J	< 122000 J	< 30600 J	< 2840 J	< 250 J	< 240 J	< 2740 J	R	< 300 J	< 2550 J
Heptachlor	< 2240 J	< 134000	< 33600	< 3130	< 280	< 260	< 3020	R	< 330	< 2800
Hexachlorobenzene	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
Hexachlorobutadiene	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550

TABLE 4.2-1
Soil Analytical Results for
SWMU Group A: SWMUs 1, 2, 3, and 4

SAMPLE ID	SM004-TB02-0305	SM004-TB02-1113	SM004-TB02-1113FD	SM004-TB02-1921	SM004-TB02-3941	SM004-TB03-0001	SM004-TB03-0305	SM004-TB03-0305D	SM004-TB03-1719	SM004-TB04-0001
SAMPLE DEPTH(ft)	3.00-5.00	11.00-13.00	11.00-13.00	19.00-21.00	39.00-41.00	0.00-1.00	3.00-5.00	3.00-5.00	17.00-19.00	0.00-1.00
SAMPLE LOCATION	TB02	TB02	TB02	TB02	TB02	TB03	TB03	TB03	TB03	TB04
SAMPLE DATE	6/27/1997	6/27/1997	6/27/1997	6/27/1997	6/30/1997	7/8/1997	7/8/1997	7/8/1997	7/8/1997	7/3/1997
PARAMETER										
Hexachlorocyclopentadiene	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
Hexachloroethane	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
Indeno(1,2,3-cd)pyrene	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
Isophorone	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
Methyl methane sulfonate	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
N-Nitrosodibutylamine	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
N-Nitrosodimethylamine	< 2040 J	< 122000 J	< 30600 J	< 2840 J	< 250 J	< 240 J	< 2740 J	R	< 300 J	< 2550 J
N-Nitrosodiphenylamine	< 2650 J	< 159000	< 39700	< 3690	370	< 310	< 3560	R	< 390	< 3310
N-Nitrosodipropylamine	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
N-Nitrosopiperidine	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
Naphthalene	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
Nitrobenzene	3950 J	< 122000	< 30600	< 2840	270	< 240	< 2740	R	< 300	< 2550
Pentachlorobenzene	< 3460 J	< 208000	< 52000	< 4830	< 430	< 400	< 4660	R	< 500	< 4330
Pentachloronitrobenzene	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
Pentachlorophenol	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
Phenacetin	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
Phenanthrene	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	2460 J	< 300	< 2550
Phenol	2690 J	333000 J	34500 J	< 1700 J	390 J	< 140 J	< 1650 J	R	< 180 J	< 1530 J
Pyrene	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
Pyridine	< 2240 J	< 134000	< 33600	< 3130	< 280	< 260	< 3020	R	< 330	< 2800
Trimethylphosphate	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
Triphenylphosphate	< 10200 J	< 611000	< 153000	< 14200	< 1260	< 1180	< 13700	R	< 1480	< 12700
m,p-Cresol	< 3050 J	541000 J	< 45900 J	< 4260 J	380 J	< 350 J	< 4110 J	R	< 450 J	< 3820 J
m-Nitrotoluene	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
m-Toluidine	< 4070 J	517000	91400	< 5680	870	< 470	< 5480	R	< 590	< 5100
o,p-Toluidine	13100 J	2150000 J	336000 J	18800 J	5710 J	< 1200 J	< 14000 J	R	< 1510 J	< 13000 J
o-Cresol	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
o-Nitrotoluene	2520 J	< 122000	< 30600	< 2840	270	< 240	< 2740	R	< 300	< 2550
p-Chloroaniline	4480 J	< 122000	< 30600	< 2840	< 250	< 240	7710	5930 J	< 300	< 2550
p-Dimethylaminoazobenzene	< 2040 J	< 122000	< 30600	< 2840	< 250	< 240	< 2740	R	< 300	< 2550
p-Nitrotoluene	< 3050 J	< 183000	< 45900	< 4260	< 380	< 350	< 4110	R	< 450	< 3820
Metals (µg/kg)										
Antimony	< 571	2110 J	< 699	596 J	< 449	< 434	< 468	< 458	< 487	< 451
Cadmium	760 J	2940 J	1380 J	1860 J	4330 J	1090 J	980 J	810 J	760 J	900 J
Chromium	16980 J	1215380 J	26920 J	820620 J	25730 J	31610 J	70230 J	63680 J	16420 J	29050 J
Lead	10752 J	70283 J	26266 J	48608 J	48908 J	12446 J	17359 J	18617 J	16000 J	18279 J
Nickel	22400 J	3694930 J	34620 J	2417880 J	476740 J	86450 J	104220 J	86980 J	19290 J	81590 J
Miscellaneous (µg/kg)										
Percent Moisture	30 %	43 %	NA	16 %	11 %	7.9 %	15 %	13 %	18 %	11 %
Total Organic Carbon	NA	NA	NA	NA	NA	NA	6200000	8200000	NA	NA
pH in Water (Solid Sample)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
NA=Not analyzed
B=Blank contamination
J=Estimated concentration
K=Estimated concentration (high)
R=Rejected data
U=Nondetect at reported limit
<=Nondetect at reported limit

BLE 4.2-1
S[illegible]tical Results for
SWMU Group A: SWMUs 1, 2, 3, and 4

SAMPLE ID	SM004-TB04-0305	SM004-TB04-2325	SM004-WTR-0000	SM004-WTR-0000D	SM004-TB06-1012D	SM004-TB06-1012D	SM004-TB06-1214	SM004-TB05-0406	SM004-TB05-0607
SAMPLE DEPTH(ft)	3.00-5.00	23.00-25.00	0.00-0.00	0.00-0.00	10.0-12.0	10.0-12.0	12.0-14.0	4.0-6.0	6.0-7.0
SAMPLE LOCATION	TB04	TB04	TB04	TB04	TB06	TB06	TB06	TB05	TB05
SAMPLE DATE	7/3/1997	7/3/1997	10/23/1996	10/23/1996	10/29/1996	10/29/1996	10/29/1996	10/30/1996	10/30/1996
PARAMETER									
Volatiles (µg/kg)									
1,1,1,2-Tetrachloroethane	< 295	< 299	<2.0	<2.0	<1.2	<1.2	<.2	<24.0	<24.0
1,1,1-Trichloroethane	< 153	< 155	<3.0	<3.0	<1.8	<1.8	<.2	<36.0	<36.0
1,1,2,2-Tetrachloroethane	< 153	< 155	<2.0	<2.0	<1.2	<1.2	<.2	<24.0	<24.0
1,1,2-Trichloroethane	< 295	< 299	<2.0	<2.0	<1.2	<1.2	<.2	<24.0	<24.0
1,1-Dichloroethane	< 153	< 155	<2.0	<2.0	<1.2	<1.2	<.2	<24.0	<24.0
1,1-Dichloroethene	< 295	< 299	<2.0	<2.0	<1.2	<1.2	<1.2	<24.0	<24.0
1,1-Dichloropropene	< 153	< 155	<3.0	<3.0	<1.8	<1.8	<.4	<36.0	<36.0
1,2,3-Trichlorobenzene	< 153	< 155	<2.0	<2.0	<1.2	<1.2	<.2	<24.0	<24.0
1,2,3-Trichloropropane	< 153	< 155	<3.0	<3.0	<1.8	<1.8	<.4	<36.0	<36.0
1,2,4-Trichlorobenzene	< 153	< 155	<2.0	<2.0	<1.2	<1.2	<.2	<24.0	<24.0
1,2,4-Trimethylbenzene	< 153	< 155	<2.0	<2.0	<1.2	<1.2	<.2	<24.0	<24.0
1,2-Dibromo-3-chloropropane	< 295	< 299	<10.0	<10.0	<6.0	<6.0	<1.2	<120.0	<120.0
1,2-Dibromoethane	< 153	< 155	<2.0	<2.0	<1.2	<1.2	<.2	<24.0	<24.0
1,2-Dichlorobenzene	< 295	< 299	2	2	16	16	<.2	147	287
1,2-Dichloroethane	< 295	< 299	<2.0	<2.0	<1.2	<1.2	<.2	<24.0	<24.0
1,2-Dichloropropane	< 449	< 454	<2.0	<2.0	<1.2	<1.2	<.2	<24.0	<24.0
1,3,5-Trimethylbenzene	< 153	< 155	<2.0	<2.0	<1.2	<1.2	<.2	<24.0	<24.0
1,3-Dichlorobenzene	< 295	< 299	<2.0	<2.0	<1.2	<1.2	<.2	<24.0	<24.0
1,3-Dichloropropane	< 153	< 155	<1.0	<1.0	<.6	<.6	<.1	<12.0	<12.0
1,4-Dichlorobenzene	< 295	< 299	<2.0	<2.0	<1.2	<1.2	<.2	<24.0	<24.0
2,2-Dichloropropane	< 153	< 155	<2.0	<2.0	<1.2	<1.2	<.2	<24.0	<24.0
2-Butanone	< 1040	< 1050	<10.0	<10.0	<6.0	<6.0	<1.2	<120.0	<120.0
2-Chloroethyl Vinyl Ether	< 295	< 299	<3.0	<3.0	<1.8	<1.8	<.4	<36.0	<36.0
2-Chlorotoluene	< 153	< 155	<2.0	<2.0	<1.2	<1.2	<.2	<24.0	<24.0
2-Hexanone	< 449	< 454	<10.0	<10.0	<6.0	<6.0	<1.2	<120.0	<120.0
4-Chlorotoluene	< 153	< 155	<2.0	<2.0	<1.2	<1.2	<.2	<24.0	<24.0
4-Methyl-2-pentanone	< 449	< 454	<10.0	<10.0	<6.0	<6.0	<.2	<120.0	<120.0
Acetone	< 1040	< 1050	<10.0	<10.0	<6.0	<6.0	<1.2	<120.0	<120.0
Acrolein	< 2950	< 2990	<10.0	<10.0	<6.0	<6.0	<1.2	<120.0	<120.0
Acrylonitrile	< 1530	< 1550	<10.0	<10.0	<6.0	<6.0	<1.2	<120.0	<120.0
Allyl Chloride	< 153	< 155	<2.0	<2..0	<1.2	<1.2	<.2	<24.0	<24.0
Benzene	< 153	< 155	<3.0	<3.0	<1.8	<1.8	<.4	52.2	58.7
Bromobenzene	< 153	< 155	<2.0	<2.0	<1.2	<1.2	<.2	<24.0	<24.0
Bromochloromethane	< 153	< 155	<3.0	<2.0	<1.2	<1.2	<.4	<36.0	<36.0
Bromodichloromethane	< 295	< 299	<2.0	<3.0	<1.8	<1.8	<.2	<24.0	<24.0
Bromoform	< 153	< 155	<2.0	<2.0	<1.2	<1.2	<.2	<24.0	<24.0
Bromomethane	< 449	< 454	<2.0	<2.0	<1.2	<1.2	<.2	<24.0	<24.0
Carbon Disulfide	< 449	< 454	<2.0	<2.0	<1.2	<1.2	<.2	<24.0	<24.0
Carbon Tetrachloride	< 153	< 155	<2.0	<2.0	<1.2	<1.2	<.2	<24.0	<24.0
Chlorobenzene	< 153	< 155	<2.0	<2.0	1.9	1.9	4.3	215	213
Chloroethane	< 449	< 454	<2.0	<2.0	<1.2	<1.2	<.2	<24.0	<24.0
Chloroform	< 153	< 155	<1.0	<1.0	<.6	<.6	<.1	<12.0	<12.0

TABLE 4.2-1
Soil Analytical Results for
SWMU Group A: SWMUs 1, 2, 3, and 4

SAMPLE ID	SM004-TB04-0305	SM004-TB04-2325	SM004-WTR-0000	SM004-WTR-0000D	SM004-TB06-1012D	SM004-TB06-1012D	SM004-TB06-1214	SM004-TB05-0406	SM004-TB05-0607
SAMPLE DEPTH(ft)	3.00-5.00	23.00-25.00	0.00-0.00	0.00-0.00	10.0-12.0	10.0-12.0	12.0-14.0	4.0-6.0	6.0-7.0
SAMPLE LOCATION	TB04	TB04	TB04	TB04	TB06	TB06	TB06	TB05	TB05
SAMPLE DATE	7/3/1997	7/3/1997	10/23/1996	10/23/1996	10/29/1996	10/29/1996	10/29/1996	10/30/1996	10/30/1996
PARAMETER									
Chloromethane	< 295	< 299	<3.0	<3.0	<1.8	<1.8	<.4	<36.0	<36.0
Dibromochloromethane	< 153	< 155	<2.0	<2.0	<1.2	<1.2	<.2	<24.0	<24.0
Dibromomethane	< 153	< 155	<3.0	<3.0	<1.8	<1.8	<.4	<36.0	<36.0
Dichlorodifluoromethane	< 295	< 299	<2.0	<2.0	<1.2	<1.2	<.2	<24.0	<24.0
Ethyl Methacrylate	< 153	< 155	<3.0	<3.0	<1.8	<1.8	<.4	<36.0	<36.0
Ethylbenzene	< 153	< 155	<2.0	<2.0	<1.2	<1.2	<.2	<24.0	<24.0
Freon 113	< 295	< 299	<2.0	NA	NA	NA	NA	NA	NA
Freon 141b	< 153	< 155	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	< 295	< 299	<2.0	<2.0	<1.2	<1.2	<.2	<24.0	<24.0
Isopropylbenzene	< 449	< 454	<2.0	<2.0	<1.2	<1.2	<.2	<24.0	<24.0
Methyl Iodide	< 449	< 454	<2.0	<2.0	<1.2	<1.2	<.2	<24.0	<24.0
Methylene Chloride	< 295	< 299	<2.6	<2.6	<1.6	<1.6	<.3	<31.2	<31.2
Naphthalene	< 153	< 155	<10.0	<10.0	<6.0	<6.0	<1.2	<120.0	<120.0
Styrene	< 153	< 155	<2.0	<2.0	<1.2	<1.2	<.2	<24.0	<24.0
Tetrachloroethene	< 153	< 155	<2.0	<2.0	<1.2	<1.2	<.2	<24.0	<24.0
Toluene	< 153	< 155	<2.0	<2.0	<1.2	<1.2	<.2	862	172
Trichloroethene	< 153	< 155	<1.0	<1.0	<.6	<.6	<.1	<12.0	<12.0
Trichlorofluoromethane	< 295	< 299	<2.0	<2.0	<1.2	<1.2	<.2	<24.0	<24.0
Vinyl Acetate	< 449	< 454	<10.0	<10.0	<6.0	<6.0	<1.2	<120.0	<120.0
Vinyl Chloride	< 295	< 299	<2.0	<2.0	<1.2	<1.2	<.2	<24.0	<24.0
cis-1,2-Dichloroethene	< 295	< 299	<2.0	<2.0	<1.2	<1.2	<.2	<24.0	<24.0
cis-1,3-Dichloropropene	< 153	< 155	<2.0	<2.0	<1.2	<1.2	<.2	<24.0	<24.0
m+p-Xylene	< 153	< 155	<2.0	<2.0	<1.2	<1.2	<.2	<24.0	<24.0
n-Butylbenzene	< 153	< 155	<2.0	<2.0	<1.2	<1.2	<.2	<24.0	<24.0
n-Propylbenzene	< 153	< 155	<2.0	<2.0	<1.2	<1.2	<.2	<24.0	<24.0
o-Xylene	< 153	< 155	<2.0	<2.0	<1.2	<1.2	<.2	<24.0	<24.0
p-Isopropyltoluene	< 153	< 155	<2.0	<2.0	<1.2	<1.2	<.2	<24.0	<24.0
sec-Butylbenzene	< 153	< 155	<2.0	<2.0	<1.2	<1.2	<.2	<24.0	<24.0
tert-Butylbenzene	< 153	< 155	<2.0	<2.0	<1.2	<1.2	<.2	<24.0	<24.0
trans-1,2-Dichloroethene	< 295	< 299	<1.0	<1.0	<.6	<.6	<.1	<12.0	<12.0
trans-1,3-Dichloropropene	< 153	< 155	<2.0	<2.0	<1.2	<1.2	<.2	<24.0	<24.0
trans-1,4-Dichloro-2-butene	< 1530	< 1550	<10.0	<10.0	<6.0	<6.0	<1.2	<120.0	<120.0
Semivolatiles (µg/kg)									
1,2,3-Trichlorobenzene	< 330	< 340	<2.0	<2.0	<.2	<.2	<.2	<1.0	<.2
1,2,4,5-Tetrachlorobenzene	< 330	< 340	<2.0	<2.0	<.2	<.2	<.2	<1.0	<.2
1,2,4-Trichlorobenzene	< 280	< 290	<2.0	<2.0	<.2	<.2	<.2	<1.0	<.2
1,2-Dichlorobenzene	< 280 J	310 J	<2.0	<2.0	1.8	1.8	0.6	493	5.5
1,3-Dichlorobenzene	< 280	< 290	<1.5	<1.5	<.2	<.2	<.2	<.8	<.2
1,4-Dichlorobenzene	< 280	< 290	<1.0	<1.0	<.1	<.1	<.1	7.2	0.1
1-Chloronaphthalene	< 700	< 710	NA	<5.0	<.5	<.5	<.5	<2.5	<.5
1-Methylnaphthalene	< 280	< 290	<2.0	<2.0	<.2	<.2	<.2	<1.0	<.2
1-Naphthylamine	< 950	< 970	<2.0	<2.0	<.2	<.2	<.2	<1.0	<.2
2,3,4,6-Tetrachlorophenol	< 560	< 570	<2.0	<2.0	<.2	<.2	<.2	<1.0	<1.0
2,3-Dichloroaniline	< 280	< 290	<2.0	<2.0	<.2	<.2	<.2	<1.0	<.2
2,4,5-Trichlorophenol	< 280	< 290	<2.0	<2.0	<.2	<.2	<.2	<1.0	<.2
2,4,6-Trichlorophenol	< 280	< 290	<1.0	<1.0	<.1	<.1	<.1	<.5	<.1
2,4-Dichlorophenol	< 280	< 290	<06	<.6	<.1	<.1	<.1	<.3	<.1
2,4-Dimethylphenol	< 280	< 290	<1.8	<1.8	<.2	<.2	<.2	<.9	<.2
2,4-Dinitrophenol	< 1730	< 1770	<32.0	<32.0	<3.2	<3.2	<3.2	<16.0	<3.2
2,4-Dinitrotoluene	< 280	< 290	<1.5	<1.5	<.2	<.2	<.2	23.5	0.5
2,4-Toluenediamine	< 1390	< 1430	<10.0	<10.0	1.0 J	1.0 J	<1.0	244 E	<1.0
2,6-Dichlorophenol	< 280	< 290	<1.6	<1.6	<.2	<.2	<.2	<.8	<.2
2,6-Dinitrotoluene	< 280	< 290	<1.5	<1.5	<.2	<.2	<.2	4.7	<.2
2-Chloronaphthalene	< 280	< 290	<5.0	<2.0	<.2	<.2	<.2	<1.0	<.2

BLE 4.2-1
S[illegible]tical Results for
SWMU Group A: SWMUs 1, 2, 3, and 4

SAMPLE ID	SM004-TB04-0305	SM004-TB04-2325	SM004-WTR-0000	SM004-WTR-0000D	SM004-TB06-1012D	SM004-TB06-1012D	SM004-TB06-1214	SM004-TB05-0406	SM004-TB05-0607
SAMPLE DEPTH(ft)	3.00-5.00	23.00-25.00	0.00-0.00	0.00-0.00	10.0-12.0	10.0-12.0	12.0-14.0	4.0-6.0	6.0-7.0
SAMPLE LOCATION	TB04	TB04	TB04	TB04	TB06	TB06	TB06	TB05	TB05
SAMPLE DATE	7/3/1997	7/3/1997	10/23/1996	10/23/1996	10/29/1996	10/29/1996	10/29/1996	10/30/1996	10/30/1996
PARAMETER									
2-Chlorophenol	< 280	< 290	<1.6	<1.6	<.2	<.2	<.2	<.8	<.2
2-Methylnaphthalene	< 280	< 290	<2.0	<2.0	<.2	<.2	<.2	<1.0	<.2
2-Naphthylamine	< 1060	< 1080	<2.0	<2.0	<.2	<.2	<.2	<1.0	<.2
2-Nitroaniline	< 330	< 340	<2.0	<2.0	<.2	<.2	<.2	<1.0	<.2
2-Nitrodiphenylamine	< 280	< 290	<2.0	<2.0	<.2	<.2	<.2	<1.0	<.2
2-Nitrophenol	< 280	< 290	<2.0	<2.0	<.2	<.2	<.2	<1.0	<.2
2-Picoline	< 1030	< 1060	<2.0	<2.0	<.2	<.2	<.2	<1.0	<.2
3,3'-Dichlorobenzidine	< 1700	< 1740	<1.0	<1.0	<.1	<.1	<.1	<.5	<.1
3-Methylcholanthrene	< 280	< 290	<2.0	<2.0	<.2	<.2	<.2	<1.0	<.2
3-Nitroaniline	< 280	< 290	<1.0	<1.0	<.1	<.1	<.1	<.5	<.1
4,4' Methylenedianiline	< 2450 J	< 2510 J	<2.0	<2.0	<.2	<.2	<.2	85.3 J	<.2
4,6-Dinitro-o-cresol	< 280	< 290	<2.0	<2.0	<.2	<.2	<.2	<1.0	<.2
4-Aminobiphenyl	< 280	< 290	<2.0	<2.0	<.2	<.2	<.2	9.3	0.2
4-Aminodiphenylamine	< 700	< 710	<2.0	<2.0	<.2	<.2	<.2	<1.0	<.2
4-Bromophenyl phenyl ether	< 280	< 290	<1.5	<1.5	<.2	<.2	<.2	<.8	<.2
4-Chloro-m-cresol	< 280	< 290	<2.0	<2.0	<.2	<.2	<.2	<1.0	<.2
4-Chlorophenylphenyl ether	< 280	< 290	<1.0	<1.0	<.1	<.1	<.1	<.5	<.1
4-Nitroaniline	< 280	< 290	<2.0	<2.0	<.2	<.2	<.2	<1.0	<.2
4-Nitrophenol	< 280 J	< 290 J	<1.8	<1.8	<.2	<.2	<.2	<.9	<.2
5-Nitro-o-toluidine	< 280	< 290	<2.0	<2.0	<.2	<.2	<.2	<1.0	<.2
7,12-dimethylbenz[a]anthracene	< 280	< 290	<2.0	<2.0	<.2	<.2	<.2	<1.0	<.2
Acenaphthene	< 280	< 290	<1.0	<1.0	<.1	<.1	<.1	<.5	<.1
Acenaphthylene	< 280	< 290	<1.0	<1.0	<.1	<.1	<.1	<.5	<.1
Acetophenone	< 360	< 370	<2.0	<2.0	<.2	<.2	<.2	<1.0	<.2
Aniline	< 390 J	< 400 J	3.2	<2.0	<.2	<.2	0.8	105	3.5
Anthracene	< 280	< 290	<1.0	<1.0	<.1	<.1	<.1	<.5	<.1
Azobenzene	< 330	< 340	<32.0	<2.0	<.2	<.2	<.2	<1.0	<.2
Benzidine	< 4460	< 4570	NA	<32.0	<3.2	<3.2	<3.2	<16.0	<3.2
Benzo(a)anthracene	< 360	< 370	<2.0	<2.0	<.2	<.2	<.2	<1.0.	<.2
Benzo(a)pyrene	< 280	< 290	<1.0	<1.0	<.1	<.1	<.1	<.5	<.1
Benzo(b)fluoranthene	< 280	< 290	<1.0	<1.0	<.1	<.1	<.1	<.5	<.1
Benzo(ghi)perylene	< 310	< 310	<2.0	<2.0	<.2	<.2	<.2	<1.0	<.2
Benzo(k)fluoranthene	< 280	< 290	<2.0	<2.0	<.2	<.2	<.2	<1.0	<.2
Benzoic Acid	< 280	< 290	<2.0	<2.0	<.2	<.2	<.2	<1.0	<.2
Benzyl Alcohol	< 280	< 290	<1.0	<1.0	<.1	<.1	<.1	<.5	<.1
Benzyl butyl phthalate	< 280	< 290	<2.0	<2.0	<.2	<.2	<.2	<1.0	<.2
Bis(2-chloroethoxymethane)	< 280	< 290	<2.0	<2.0	<.2	<.2	<.2	<1.0	<.2
Bis(2-chloroethyl)ether	< 280	< 290	<1.5	<1.5	<.2	<.2	<.2	<.8	<.2
Bis(2-chloroisopropyl)ether	< 280	< 290	<2.0	<2.0	<.2	<.2	<.2	<1.0	<.2
Bis(2-ethylhexyl) phthalate	.590 B	< 340	2.3 B	3.4 B	.3 B	.3 B	.2 B	1.5	.7 B
Bisphenol A	< 500 J	< 510 J	<3.0	18.4	41.9	41.9	8.5	1470	83.5
Carbazole	< 1390	< 1430	NA	NA	NA	NA	NA	NA	NA
Chrysene	< 280	< 290	<2.0	<2.0	<.2	<.2	<.2	<1.0	<.2
Cyclohexanone	< 280	< 290	<2.0	<2.0	<.2	<.2	<.2	<1.0	<.2
Di-n-butyl phthalate	2290 B	1060 B	1.1	<1.0	8.3 B	8.3 B	6.9 B	18.3 B	8.3 B
Di-n-octyl phthalate	< 280	< 290	<1.0	1.1	<.1	<.1	<.1	<.5	<.1
Dibenzo(a,h)anthracene	< 280	< 290	<1.5	<1.5	<.2	<.2	<.2	<.8	<.2
Dibenzofuran	< 280	< 290	<2.0	<2.0	<.2	<.2	<.2	<1.0	<.2
Diethyl Phthalate	< 280	< 290	<1.0	<1.0	.1 B	.1 B	.1 B	<.5	.2 B
Dimethylphthalate	< 280	< 290	<1.0	<1.0	<.1	<.1	<.1	<.5	<.1
Diphenylamine	NA	NA	NA	NA	<.2	<.2	<.2	5.4	.2J
Ethyl Methane Sulfonate	< 500	< 510	<5.0	<5.0	<.5	<.5	<.5	<2.5	<.5
Fluoranthene	< 280	< 290	<2.0	<2.0	<.2	<.2	<.2	<1.0	<.2
Fluorene	< 280 J	< 290 J	<1.0	<1.0	<.1	<.1	<.1	<.5	<.1
Heptachlor	< 310	< 310	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	< 280	< 290	<1.5	<1.5	<.2	<.2	<.2	<.8	<.2
Hexachlorobutadiene	< 280	< 290	<1.0	<1.0	<.1	<.1	<.1	<.5	<.1

TABLE 4.2-1
Soil Analytical Results for
SWMU Group A: SWMUs 1, 2, 3, and 4

SAMPLE ID	SM004-TB04-0305	SM004-TB04-2325	SM004-WTR-0000	SM004-WTR-0000D	SM004-TB06-1012D	SM004-TB06-1012D	SM004-TB06-1214	SM004-TB05-0406	SM004-TB05-0607
SAMPLE DEPTH(ft)	3.00-5.00	23.00-25.00	0.00-0.00	0.00-0.00	10.0-12.0	10.0-12.0	12.0-14.0	4.0-6.0	6.0-7.0
SAMPLE LOCATION	TB04	TB04	TB04	TB04	TB06	TB06	TB06	TB05	TB05
SAMPLE DATE	7/3/1997	7/3/1997	10/23/1996	10/23/1996	10/29/1996	10/29/1996	10/29/1996	10/30/1996	10/30/1996
PARAMETER									
Hexachlorocyclopentadiene	< 280	< 290	<2.0	<2.0	<.2	<.2	<.2	<1.0	<.2
Hexachloroethane	< 280	< 290	<1.5	<1.5	<.2	<.2	<.2	<.8	<.2
Indeno(1,2,3-cd)pyrene	< 280	< 290	<2.0	<2.0	<.2	<.2	<.2	<1.0	<.2
Isophorone	< 280	< 290	<2.0	<2.0	<.2	<.2	<.2	<1.0	<.2
Methyl methane sulfonate	< 280	< 290	<2.0	<2.0	<.2	<.2	<.2	<1.0	<.2
N-Nitrosodibutylamine	< 280	< 290	<2.0	<2.0	<.2	<.2	<.2	<1.0	<.2
N-Nitrosodimethylamine	< 280 J	< 290 J	<2.0	<2.0	<.2	<.2	<.2	<1.0	<.2
N-Nitrosodiphenylamine	< 360	< 370	<1.5	<1.5	<.2	<.2	<.2	6.8	0.3
N-Nitrosodipropylamine	< 280	< 290	<1.5	<1.5	<.2	<.2	<.2	<.8	<.2
N-Nitrosopiperidine	< 280	< 290	<2.0	<2.0	<.2	<.2	<.2	<1.0	<.2
Naphthalene	< 280	< 290	<1.5	<1.5	<.2	<.2	<.2	<.8	<.2
Nitrobenzene	< 280	< 290	<1.0	<1.0	<.1	<.1	<.1	13	0.7
Pentachlorobenzene	< 470	< 490	<2.0	<2.0	<.2	<.2	<.2	<1.0	<.2
Pentachloronitrobenzene	< 280	< 290	<2.0	<2.0	<.2	<.2	<.2	<1.0	<.2
Pentachlorophenol	< 280	< 290	<.9	<.9	<.1	<.1	<.1	<.4	<.1
Phenacetin	< 280	< 290	<2.0	<2.0	<.2	<.2	<.2	<1.0	<.2
Phenanthrene	< 280	< 290	<2.0	<2.0	<.2	<.2	<.2	<1.0	<.2
Phenol	600 J	< 170 J	<09	<.9	<.1	<.1	<.1	12.2	<.1
Pyrene	< 280	< 290	<1.0	<1.0	<.1	<.1	<.1	<.5	<.1
Pyridine	< 310	< 310	<2.0	<2.0	<.2	<.2	<.2	<1.0	<.2
Trimethylphosphate	< 280	< 290	<2.0	<2.0	<.2	<.2	<.2	<1.0	<.2
Triphenylphosphate	< 1390	< 1430	NA	NA	NA	NA	NA	NA	NA
m,p-Cresol	< 420 J	< 430 J	<5.0	<5.0	<.5	<.5	<.5	55.3	1
m-Nitrotoluene	< 280	< 290	<2.0	<2.0	<.2	<.2	<.2	<1.0	<.2
m-Toluidine	< 560	< 570	<5.0	<5.0	<.5	<.5	<.5	15.6	<.5
o,p-Toluidine	< 1420 J	< 1460 J	<5.0	<5.0	<.5	<.5	<.5	146	3.7
o-Cresol	< 280	< 290	<2.0	<2.0	<.2	<.2	<.2	5.3	0.2
o-Nitrotoluene	< 280	< 290	<2.0	<2.0	0.2	0.2	<.2	4.7	<.2
p-Chloroaniline	< 280	< 290	<2.0	<2.0	0.5	0.5	<.2	27	0.6
p-Dimethylaminoazobenzene	320	< 290	<2.0	<2.0	<.2	<.2	<.2	<1.0	<.2
p-Nitrotoluene	< 420	< 430	<2.0	<2.0	<.2	<.2	<.2	5.5	.3 J
Metals (µg/kg)									
Antimony	< 472	< 478	0.002	0.002	<0.100	<0.100	<0.100	<0.100	<0.100
Cadmium	860 J	< 480	<0.002	<0.002	<0.200	<0.200	0.406	0.484	1.71
Chromium	24570 J	16430 J	<0.003	<0.003	13.2	13.2	22.9	7.12	25.4
Lead	17583 J	14194 J	<1.0	<1.0	<2000	<2000	6370	3280	15200
Nickel	69650 J	25440 J	<0.003	<0.003	43.3	43.3	14.6	31.9	1250
Miscellaneous (µg/kg)									
Percent Moisture	15 %	16 %	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH in Water (Solid Sample)	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
NA=Not analyzed
B=Blank contamination
J=Estimated concentration
K=Estimated concentration (high)
R=Rejected data
U=Nondetect at reported limit
<=Nondetect at reported limit

TABLE 4.2-2
Summary of Field Observations
SWMU Group A: SWMU 1, 2, 3, and 4

Boring Number	SM001-						
	TB01	TB02	TB03	TB04	TB05	TB06	TB07
Silty Sand (ft-bgs)[1]				0-1	19-20		0-15
Silty Clay (ft-bgs)		0-0.5 / 18-25 / 39-41 / 44-55	0-3 / 29-31 / 40-45 / 47-55	1-15	0-19 / 20-35	0-0.5 / 11-11.5 / 19-22 / 30.5-48	0-15
Sand (ft-bgs)			39-40		35-39	10.5-11 / 23.5-30 / 48-50	
Gravel (ft-bgs)							
Debris (ft-bgs) Includes powders ash, iron oxide, pellets, sheet metal, copper wire, polycarbonate resin, fibers, wood, glass paper, concrete, ceramic and granular material		0.5-18 / 25-39 / 41-44	3-29 / 31-38 / 45-47			0.5-10.5 / 11.5-19 / 22-23.5	
Perched Water							
Groundwater (ft-bgs)	18	26	17	NR[2]	17	22	20
Total Depth (ft-bgs)	30	55	55	15	39	60	26
OVM[3] Readings (ppm(4) @ ft-bgs)		9.3 @ 0-2 2.3 @ 4-6 5.8 @ 6-8 12.8 @ 12-14	20 @ 29-31			>1999 @ 22 82.5 @ 22-24	
Additional Observations	No description for soil boring.					Highest OVM reading @ groundwater	

NOTES:

(1) ft-bgs = Feet Below Ground Surface
(2) NR = No Recovery
(3) OVM = Organic Vapor Monitor
(4) ppm = Parts per Million

TABLE 4.2-2
Summary of Field Observations
SWMU Group A: SWMU 1, 2, 3, and 4

Boring Number	SM002-			SM003-		SM004-			
	TB-01	TB-02	TB-03	TB01	TB02	TB01	TB02	TB03	TB04
Silty Sand (ft-bgs)[1]	0-5 / 7-9 / 27-29		15-18 / 21-23	0-1	0-1 / 7-10	29-33	7-8 / 17-21 / 22-43	33-35	12.5-13
Silty Clay (ft-bgs)	47-50	0-0.5 / 4-5 / 10-14.5 / 27-29 / 47-48	0-15 / 18-19	9-13	5-7 / 11-14	0-18 / 19-25 / 27-29	0-7 / 8-17 / 21-22	0-33	0-12.5 / 13-41
Sand (ft-bgs)	9-11 / 46-47 / 50-53	24.5-25 / 26.5-27 / 51-55	19-21 / 23-27						
Gravel (ft-bgs)	53-57	48.5-49 / 50-51		0-1	3-5 / 10-11				
Debris (ft-bgs) Includes powders ash, iron oxide, pellets, sheet metal, copper wire, polycarbonate resin, fibers, wood, glass paper, concrete, ceramic and granular material	3-9 / 11-27 / 29-46	0.5-4 / 5-10 / 14.5-24.5 / 25-26.5 / 29-47 / 48-48.5 / 49-50		3-9 / 11-13	5-7 / 10-11	18-19 / 25-27			
Perched Water	15-29	16-27				23	5, 19		
Groundwater (ft-bgs)	53	49	15			29	25	21	29
Total Depth (ft-bgs)	57	60	27	13	14	33	44	35	41
OVM[3] Readings (ppm(4) @ ft-bgs)	100 @ 29-31 40 @ 31-33 >100 @ 35-37 >100 @ 37-39 20 @ 39-41 20 @ 41-43	0 @ 0-23 13 @ 39-41 23 @ 41-43 60 @ 43-45 87 @ 45-47 334 @ 47-49		100 @ 5-7 50 @ 7-9 50 @ 11-13	0 @ 5-7 40 @ 9-11 0 @ 11-13	140 @ 19-20 15 @ 23-25 90 @ 25-27 50 @ 27-29 20 @ 29-31	100 @ 11-13 120 @ 13-15 100 @ 15-17		
Additional Observations		Highest OVM reading @ groundwater							

NOTES:

(1) ft-bgs = Feet Below Ground Surface

(2) NR = No Recovery

(3) OVM = Organic Vapor Monitor

(4) ppm = Parts per Million

TABLE 4.2-3
Summary of Waste Observed
SWMU Group A: SWMUs 1, 2, 3, and 4

SGA Boring	Waste Observed		Type
	No	Yes	
TB001	X		
TB002	X		
TB003	X		
TB004	X		
TB005	X		
TB006	X		
TB007	X		
TB008	X		
TB009	X		
TB010		X	Ash
TB011		X	Ash, Iron Oxide
TB011A		X	Ash, Railroad tie
TB011B		X	Ash, trace Polyurethane strands
TB011C		X	trace TDI residue, trace Polycarbonate
TB012		X	Ash
TB012A		X	trace Plant residue
TB012B	X		
TB013		X	Ash, trace Polycarbonate
TB013A		X	Ash, little Polyurethane strands
TB013B		X	trace TDI residue, trace Polycarbonate
TB013C	X		
TB014		X	Ash, Iron Oxide, trace Polycarbonate, trace Slag, trace Ceramic pieces
TB014A		X	Ash
TB014B		X	Polycarbonate
TB015		X	Ash, Iron Oxide, trace Polycarbonate, trace TDI residue
TB015A		X	Polyurethane beads
TB016		X	Ash, trace Brick
TB016A		X	Polyurethane strands
TB017		X	Ash, trace TDI residue, trace Slag
TB017A		X	Ash, Polycarbonate
TB017B		X	TDI residue (in drum), Polyurethane strands
TB018		X	Ash
TB018A		X	Plastic
TB018B	X		
TB019		X	Ash, trace Slag, trace Polycarbonate
TB020		X	Plant residue, Ash, little Polycarbonate
TB020A		X	Polycarbonate, Paper, Plant residue
TB020B		X	trace Slag
TB020C	X		
TB021		X	Iron Oxide, trace Polycarbonate, trace Polyurethane, trace Plastic
TB021A		X	little Polycarbonate
TB021B	X		
TB021C		X	Plant residue, piece of Metal
TB021D	X		
TB022		X	Ash, Polycarbonate
TB022A	X		
TB023		X	trace Plant residue, trace Polyurethane
TB023A		X	trace Polyurethane strands

TABLE 4.2-3
Summary of Waste Observed
SWMU Group A: SWMUs 1, 2, 3, and 4

SGA Boring	Waste Observed		Type
	No	Yes	
TB023B		X	trace Plant residue
TB023C	X		
TB024		X	some Polyurethane strands
TB024A		X	trace Polycarbonate
TB024B	X		
TB024C	X		
TB025	X		
TB025A		X	trace Polyurethane
TB025B	X		
TB026		X	some Polyurethane strands
TB026A		X	Concrete
TB026B	X		
TB027	X		
TB028		X	Ash
TB029	X		
TB030	X		
TB031	X		
TB032	X		
TB033	X		
TB034		X	trace Iron Oxide, trace Polycarbonate
TB034A	X		
TB035		X	Ash, Polycarbonate, Plant residue, piece of Metal
TB035A		X	trace Polycarbonate, trace Polyurethane strands
TB035B	X		
TB035C	X		
TB036		X	trace Polycarbonate, trace Plant residue
TB036A	X		
TB037	X		
TB038	X		
TB039	X		
TB040	X		
TB041	X		
TB042	X		
TB043	X		
TB044		X	Iron Oxide, trace Plastic
TB045	X		
TB046	X		
TB047	X		
TB048	X		
TB049	X		
TB050	X		
TB051	X		
TB052	X		
TB053	X		
TB054	X		
TB055	X		
TB056	X		
TB057	X		
TB058	X		

BLE 4.2-4

Screening of Total Soils f sed Screening Criteria: SWMU Group A

Constituent	CAS Number	Units	Frequency of Detection	Range of Detections	Sample of Maximum Detection	Range of Detection Limits	Sample of Maximum Detection Limit	Region III Industrial Soil RBC[1]	Region III Residential Soil RBC[1]	Maximum Detection or Detection Limit Exceeds Industrial RBC	Maximum Detection or Detection Limit Exceeds Residential RBC
METALS											
Chromium	7440-47-3	mg/kg	74 - 74	1.1 - 3560	SM002-TB01-0305	NA		6.1E+03	2.3E+02	No	Max. Det.>Res RBC
Lead	7439-92-1	mg/kg	71 - 74	3.28 - 2000	SM002-TB01-3133	2 - 2	SM004-TB06-1012	4.0E+02	2.0E+02	Max. Det.>Ind RBC	Max. Det.>Res RBC
Nickel	7440-02-0	mg/kg	74 - 74	2.89 - 4850	SM002-TB01-3739	NA		4.1E+04	1.6E+03	No	Max. Det.>Res RBC
PESTICIDES/HERBICIDES											
Heptachlor	76-44-8	mg/kg	0 - 47	NA		0.2 - 134	SM004-TB02-1113	1.3E+00	1.4E-01	Max. D.L. >Ind RBC	Max. D.L. >Res RBC
SEMIVOLATILE ORGANIC COMPOUNDS											
1,2,4,5-Tetrachlorobenzene	95-94-3	mg/kg	2 - 64	0.3 - 19.4	SM001-TB07-0305	0.2 - 147	SM004-TB02-1113	6.1E+02	2.3E+01	No	Max. D.L. >Res RBC
1,3-Dichlorobenzene	541-73-1	mg/kg	1 - 64	3.16 - 3.16	SM004-TB01-2729	0.2 - 122	SM004-TB02-1113	1.8E+03	7.0E+01	No	Max. D.L. >Res RBC
1,4-Dichlorobenzene	106-46-7	mg/kg	12 - 63	0.1 - 449	SM002-TB01-2931	0.1 - 122	SM004-TB02-1113	2.4E+02	2.7E+01	Max. Det.>Ind RBC	Max. Det. & D.L. > Res RBC
2,4,6-Trichlorophenol	88-06-2	mg/kg	0 - 63	NA		0.1 - 122	SM004-TB02-1113	5.2E+02	5.8E+01	No	Max. D.L. >Res RBC
2,4-Dinitrophenol	51-28-5	mg/kg	0 - 63	NA		1.44 - 758	SM004-TB02-1113	4.1E+03	1.6E+02	No	Max. D.L. >Res RBC
2,4-Toluenediamine	95-80-7	mg/kg	3 - 61	1 J - 66.5 J	SM004-TB02-1113	1 - 424	SM002-TB01-4143	1.8E+00	2.0E-01	Max. Det. & D.L. > Ind RBC	Max. Det. & D.L. > Res RBC
2,6-Dinitrotoluene	606-20-2	mg/kg	8 - 65	0.37 J - 97.2	SM004-TB01-2527	0.2 - 122	SM004-TB02-1113	2.0E+03	7.8E+01	No	Max. Det. & D.L. > Res RBC
3,3'-Dichlorobenzidine	91-94-1	mg/kg	0 - 64	NA		0.1 - 746	SM004-TB02-1113	1.3E+01	1.4E+00	Max. D.L. >Ind RBC	Max. D.L. >Res RBC
4,6-Dinitro-o-cresol	534-52-1	mg/kg	0 - 63	NA		0.2 - 122	SM004-TB02-1113	2.0E+02	7.8E+00	No	Max. D.L. >Res RBC
5-Nitro-o-toluidine	99-55-8	mg/kg	3 - 64	0.35 - 8.4	SM001-TB03-2931	0.2 - 122	SM004-TB02-1113	1.7E+02	1.9E+01	No	Max. D.L. >Res RBC
Aniline	62-53-3	mg/kg	26 - 63	0.3 - 6330 J	SM004-TB02-1113	0.2 - 37.2	SM003-TB01-1113	1.0E+03	1.1E+02	Max. Det.>Ind RBC	Max. Det.>Res RBC
Azobenzene	103-33-3	mg/kg	0 - 64	NA		0.2 - 147	SM004-TB02-1113	5.2E+01	5.8E+00	Max. D.L. >Ind RBC	Max. D.L. >Res RBC
Benzidine	92-87-5	mg/kg	0 - 64	NA		3.2 - 1960	SM004-TB02-1113	2.5E-02	3.0E-03	Max. D.L. >Ind RBC	Max. D.L. >Res RBC
Benzo(a)anthracene	56-55-3	mg/kg	1 - 64	16.8 - 16.8	SM001-TB03-2931	0.2 - 159	SM004-TB02-1113	7.8E+00	8.8E-01	Max. Det. & D.L. > Ind RBC	Max. Det. & D.L. > Res RBC
Benzo(a)pyrene	50-32-8	mg/kg	2 - 64	0.26 - 14.3	SM001-TB03-2931	0.1 - 122	SM004-TB02-1113	7.8E-01	8.7E-02	Max. Det. & D.L. > Ind RBC	Max. Det. & D.L. > Res RBC
Benzo(b)fluoranthene	205-99-2	mg/kg	3 - 64	0.1 - 12.2	SM001-TB03-2931	0.1 - 122	SM004-TB02-1113	7.8E+00	8.8E-01	Max. Det. & D.L. > Ind RBC	Max. Det. & D.L. > Res RBC
Benzo(k)fluoranthene	207-08-9	mg/kg	1 - 64	18.1 - 18.1	SM001-TB03-2931	0.2 - 122	SM004-TB02-1113	7.8E+01	8.8E+00	Max. D.L. >Ind RBC	Max. Det. & D.L. > Res RBC
bis(2-Chloroethyl)ether	111-44-4	mg/kg	1 - 64	0.25 - 0.25	SM002-TB03-1719	0.2 - 122	SM004-TB02-1113	5.2E+00	5.8E-01	Max. D.L. >Ind RBC	Max. D.L. >Res RBC
bis(2-Chloroisopropyl)ether	108-60-1	mg/kg	0 - 64	NA		0.2 - 122	SM004-TB02-1113	8.2E+01	9.1E+00	Max. D.L. >Ind RBC	Max. D.L. >Res RBC
bis(2-Ethylhexyl) phthalate	117-81-7	mg/kg	28 - 64	0.2 - 45.8	SM001-TB06-2022	0.2 - 147	SM004-TB02-1113	4.1E+02	4.6E+01	No	Max. Det. & D.L. > Res RBC
Carbazole	86-74-8	mg/kg	0 - 46	NA		1.16 - 611	SM004-TB02-1113	2.9E+02	3.2E+01	Max. D.L. >Ind RBC	Max. D.L. >Res RBC
Chrysene	218-01-9	mg/kg	2 - 64	0.29 - 16.4	SM001-TB03-2931	0.2 - 122	SM004-TB02-1113	7.8E+02	8.7E+01	No	Max. D.L. >Res RBC
Dibenz(a,h)anthracene	53-70-3	mg/kg	0 - 64	NA		0.2 - 122	SM004-TB02-1113	7.8E-01	8.7E-02	Max. D.L. >Ind RBC	Max. D.L. >Res RBC
Hexachlorobenzene	118-74-1	mg/kg	0 - 64	NA		0.2 - 122	SM004-TB02-1113	3.6E+00	4.0E-01	Max. D.L. >Ind RBC	Max. D.L. >Res RBC
Hexachlorobutadiene	87-68-3	mg/kg	0 - 64	NA		0.1 - 122	SM004-TB02-1113	7.3E+01	8.2E+00	Max. D.L. >Ind RBC	Max. D.L. >Res RBC
Hexachloroethane	67-72-1	mg/kg	0 - 64	NA		0.2 - 122	SM004-TB02-1113	4.1E+02	4.6E+01	No	Max. D.L. >Res RBC
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	1 - 64	2.88 - 2.88	SM001-TB03-2931	0.2 - 122	SM004-TB02-1113	7.8E+00	8.8E-01	Max. D.L. >Ind RBC	Max. Det. & D.L. > Res RBC
m-toludine	108-44-1	mg/kg	5 - 64	0.87 - 517	SM004-TB02-1113	0.46 - 73	SM002-TB01-3537	3.0E+01	3.4E+00	Max. Det. & D.L. > Ind RBC	Max. Det. & D.L. > Res RBC
Nitrobenzene	98-95-3	mg/kg	7 - 64	0.27 - 13	SM004-TB05-0406	0.1 - 122	SM004-TB02-1113	1.0E+03	3.9E+01	No	Max. D.L. >Res RBC
n-Nitroso-dibutylamine	924-16-3	mg/kg	0 - 64	NA		0.2 - 122	SM004-TB02-1113	1.1E+00	1.2E-01	Max. D.L. >Ind RBC	Max. D.L. >Res RBC
N-Nitrosodimethylamine	62-75-9	mg/kg	0 - 64	NA		0.2 - 122	SM004-TB02-1113	1.1E-01	1.3E-02	Max. D.L. >Ind RBC	Max. D.L. >Res RBC
n-Nitroso-di-n-propylamine	621-64-7	mg/kg	0 - 64	NA		0.2 - 122	SM004-TB02-1113	8.2E-01	9.1E-02	Max. D.L. >Ind RBC	Max. D.L. >Res RBC
n-Nitrosodiphenylamine	86-30-6	mg/kg	6 - 64	0.2 - 50.7	SM002-TB01-3537	0.2 - 159	SM004-TB02-1113	1.2E+03	1.3E+02	No	Max. D.L. >Res RBC
o,p-toludine	106-49-0	mg/kg	12 - 63	3.7 - 1250 J	SM004-TB02-1113	0.5 - 135	SM003-TB01-1113	3.0E+01	3.4E+00	Max. Det. & D.L. > Ind RBC	Max. Det. & D.L. > Res RBC
p-Chloroaniline	106-47-8	mg/kg	24 - 65	0.3 - 572	SM003-TB02-0001	0.2 - 122	SM004-TB02-1113	8.2E+03	3.1E+02	No	Max. Det.>Res RBC
Pentachlorobenzene	608-93-5	mg/kg	0 - 64	NA		0.2 - 208	SM004-TB02-1113	1.6E+03	6.3E+01	No	Max. D.L. >Res RBC
Pentachloronitrobenzene	82-68-8	mg/kg	0 - 64	NA		0.2 - 122	SM004-TB02-1113	2.2E+01	2.5E+00	Max. D.L. >Ind RBC	Max. D.L. >Res RBC
Pentachlorophenol	87-86-5	mg/kg	0 - 63	NA		0.1 - 122	SM004-TB02-1113	4.8E+01	5.3E+00	Max. D.L. >Ind RBC	Max. D.L. >Res RBC
Pyridine	110-86-1	mg/kg	0 - 64	NA		0.2 - 134	SM004-TB02-1113	2.0E+03	7.8E+01	No	Max. D.L. >Res RBC
Trimethylphosphate	512-56-1	mg/kg	0 - 64	NA		0.2 - 122	SM004-TB02-1113	1.5E+02	1.7E+01	No	Max. D.L. >Res RBC
VOLATILE ORGANIC COMPOUNDS											
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	0 - 74	NA		0.1 - 960	SM001-TB06-2022	2.2E+02	2.5E+01	Max. D.L. >Ind RBC	Max. D.L. >Res RBC
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	0 - 74	NA		0.1 - 960	SM001-TB06-2022	2.9E+01	3.2E+00	Max. D.L. >Ind RBC	Max. D.L. >Res RBC
1,1,2-Trichloroethane	79-00-5	mg/kg	0 - 74	NA		0.1 - 960	SM001-TB06-2022	1.0E+02	1.1E+01	Max. D.L. >Ind RBC	Max. D.L. >Res RBC
1,1-Dichloroethene	75-35-4	mg/kg	0 - 74	NA		0.1 - 960	SM001-TB06-2022	9.5E+00	1.1E+00	Max. D.L. >Ind RBC	Max. D.L. >Res RBC
1,1-Dichloropropene	563-58-6	mg/kg	0 - 74	NA		0.136 - 1440	SM001-TB06-2022	3.2E+01	3.5E+00	Max. D.L. >Ind RBC	Max. D.L. >Res RBC
1,2,3-Trichloropropane	96-18-4	mg/kg	0 - 74	NA		0.136 - 1440	SM001-TB06-2022	8.2E-01	9.1E-02	Max. D.L. >Ind RBC	Max. D.L. >Res RBC
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	0 - 74	NA		0.1 - 4800	SM001-TB06-2022	4.1E+00	4.6E-01	Max. D.L. >Ind RBC	Max. D.L. >Res RBC
1,2-Dibromoethane	106-93-4	mg/kg	0 - 74	NA		0.1 - 960	SM001-TB06-2022	6.7E-02	8.0E-03	Max. D.L. >Ind RBC	Max. D.L. >Res RBC
1,2-Dichloroethane	107-06-2	mg/kg	0 - 74	NA		0.1 - 960	SM001-TB06-2022	6.3E+01	7.0E+00	Max. D.L. >Ind RBC	Max. D.L. >Res RBC
1,2-Dichloropropane	78-87-5	mg/kg	0 - 74	NA		0.1 - 960	SM001-TB06-2022	8.4E+01	9.4E+00	Max. D.L. >Ind RBC	Max. D.L. >Res RBC
1,3-Dichloropropane	142-28-9	mg/kg	0 - 74	NA		0.1 - 480	SM001-TB06-2022	8.4E+01	9.4E+00	Max. D.L. >Ind RBC	Max. D.L. >Res RBC
2,2-Dichloropropane	590-20-7	mg/kg	0 - 74	NA		0.1 - 960	SM001-TB06-2022	8.4E+01	9.4E+00	Max. D.L. >Ind RBC	Max. D.L. >Res RBC
2-Hexanone	591-78-6	mg/kg	0 - 74	NA		0.397 - 4800	SM001-TB06-2022	8.2E+04	3.1E+03	No	Max. D.L. >Res RBC
Acraldehyde	107-02-8	mg/kg	0 - 74	NA		0.6 - 4800	SM001-TB06-2022	4.1E+04	1.6E+03	No	Max. D.L. >Res RBC
Acrylonitrile	107-13-1	mg/kg	0 - 74	NA		0.6 - 4800	SM001-TB06-2022	1.1E+01	1.2E+00	Max. D.L. >Ind RBC	Max. D.L. >Res RBC
Benzene	71-43-2	mg/kg	21 - 74	0.187 J - 472 J	SM004-TB02-1113	0.136 - 1440	SM001-TB06-2022	2.0E+02	2.2E+01	Max. Det. & D.L. > Ind RBC	Max. Det. & D.L. > Res RBC

TABLE 4.2-4
Screening of Total Soils to Risk-Based Screening Criteria: SWMU Group A

Constituent	CAS Number	Units	Frequency of Detection	Range of Detections	Sample of Maximum Detection	Range of Detection Limits	Sample of Maximum Detection Limit	Region III Industrial Soil RBC[1]	Region III Residential Soil RBC[1]	Maximum Detection or Detection Limit Exceeds Industrial RBC	Maximum Detection or Detection Limit Exceeds Residential RBC
Bromodichloromethane	75-27-4	mg/kg	0 - 74	NA		0.1 - 960	SM001-TB06-2022	9.2E+01	1.0E+01	Max. D.L. >Ind RBC	Max. D.L. >Res RBC
Bromomethane	74-83-9	mg/kg	0 - 74	NA		0.1 - 960	SM001-TB06-2022	2.9E+03	1.1E+02	No	Max. D.L. >Res RBC
Carbon tetrachloride	56-23-5	mg/kg	0 - 74	NA		0.1 - 960	SM001-TB06-2022	4.4E+01	4.9E+00	Max. D.L. >Ind RBC	Max. D.L. >Res RBC
Chlorobenzene	108-90-7	mg/kg	62 - 74	0.169 J - 37800	SM001-TB06-2022	0.1 - 0.174	SM004-TB01-1315	4.1E+04	1.6E+03	No	Max. Det.>Res RBC
Chloroethane	75-00-3	mg/kg	0 - 74	NA		0.1 - 960	SM001-TB06-2022	2.0E+03	2.2E+02	No	Max. D.L. >Res RBC
Chloromethane	74-87-3	mg/kg	0 - 74	NA		0.2 - 1440	SM001-TB06-2022	4.4E+02	4.9E+01	Max. D.L. >Ind RBC	Max. D.L. >Res RBC
cis-1,2-Dichloroethene	156-59-2	mg/kg	0 - 74	NA		0.1 - 960	SM001-TB06-2022	2.0E+04	7.8E+02	No	Max. D.L. >Res RBC
cis-1,3-Dichloro-1-propene	10061-01-5	mg/kg	0 - 74	NA		0.1 - 960	SM001-TB06-2022	3.2E+01	3.5E+00	Max. D.L. >Ind RBC	Max. D.L. >Res RBC
Dibromochloromethane	124-48-1	mg/kg	0 - 74	NA		0.1 - 960	SM001-TB06-2022	6.8E+01	7.6E+00	Max. D.L. >Ind RBC	Max. D.L. >Res RBC
Dibromomethane	74-95-3	mg/kg	0 - 74	NA		0.136 - 1440	SM001-TB06-2022	2.0E+04	7.8E+02	No	Max. D.L. >Res RBC
Methylene chloride	75-09-2	mg/kg	3 - 74	0.5 - 1910	SM001-TB06-2022	0.2 - 31.2	SM004-TB05-0607	7.6E+02	8.5E+01	Max. Det.>Ind RBC	Max. Det.>Res RBC
n-Butylbenzene	104-51-8	mg/kg	0 - 74	NA		0.1 - 960	SM001-TB06-2022	2.0E+04	7.8E+02	No	Max. D.L. >Res RBC
n-Propylbenzene	103-65-1	mg/kg	0 - 74	NA		0.1 - 960	SM001-TB06-2022	2.0E+04	7.8E+02	No	Max. D.L. >Res RBC
sec-Butylbenzene	135-98-8	mg/kg	0 - 74	NA		0.1 - 960	SM001-TB06-2022	2.0E+04	7.8E+02	No	Max. D.L. >Res RBC
tert-Butylbenzene	98-06-6	mg/kg	0 - 74	NA		0.1 - 960	SM001-TB06-2022	2.0E+04	7.8E+02	No	Max. D.L. >Res RBC
Tetrachloroethene	127-18-4	mg/kg	0 - 74	NA		0.1 - 960	SM001-TB06-2022	1.1E+02	1.2E+01	Max. D.L. >Ind RBC	Max. D.L. >Res RBC
trans-1,3-Dichloropropene	10061-02-6	mg/kg	0 - 74	NA		0.1 - 960	SM001-TB06-2022	3.2E+01	3.5E+00	Max. D.L. >Ind RBC	Max. D.L. >Res RBC
Tribromomethane	75-25-2	mg/kg	0 - 74	NA		0.1 - 960	SM001-TB06-2022	7.2E+02	8.1E+01	Max. D.L. >Ind RBC	Max. D.L. >Res RBC
Trichloroethene	79-01-6	mg/kg	12 - 74	0.1 - 24900	SM001-TB06-2022	0.1 - 12	SM004-TB05-0406	5.2E+02	5.8E+01	Max. Det.>Ind RBC	Max. Det.>Res RBC
Trichloromethane	67-66-3	mg/kg	0 - 74	NA		0.1 - 480	SM001-TB06-2022	9.4E+02	1.0E+02	No	Max. D.L. >Res RBC
Vinyl Chloride	75-01-4	mg/kg	0 - 74	NA		0.1 - 960	SM001-TB06-2022	3.0E+00	3.4E-01	Max. D.L. >Ind RBC	Max. D.L. >Res RBC

[1] Industrial and Residential RBCs for Soil (USEPA, 1999)

TABLE 4.2-5
Screening of Total Soils to USEPA Leaching Soil Screening Levels: SWMU Group A

Constituent	CAS Number	Units	Frequency of Detection	Range of Detections	Sample of Maximum Detection	Range of Detection Limits	Sample of Maximum Detection Limit	Soil Screening Level[1] 20 DAF	Maximum Detection or Detection Limit Exceeds SSL
METALS									
Antimony	7440-36-0	mg/kg	7 - 73	0.31 - 5.45	SM002-TB01-2931	0.1 - 0.81	SM002-TB01-3133	5.0E+00	Max. Det.>SSL
Cadmium	7440-43-9	mg/kg	62 - 74	0.41 - 24.3	SM001-TB03-3537	0.2 - 0.51	SM001-TB03-5355	8.0E+00	Max. Det.>SSL
Chromium	7440-47-3	mg/kg	74 - 74	1.1 - 3560	SM002-TB01-0305	NA		3.8E+01	Max. Det.>SSL
Nickel	7440-02-0	mg/kg	74 - 74	2.89 - 4850	SM002-TB01-3739	NA		1.3E+02	Max. Det.>SSL
PESTICIDES/HERBICIDES									
Heptachlor	76-44-8	mg/kg	0 - 47	NA		0.2 - 134	SM004-TB02-1113	2.3E+01	Max. D.L. >SSL
SEMIVOLATILE ORGANIC COMPOUNDS									
1,2,3-Trichlorobenzene	87-61-6	mg/kg	1 - 64	2.3 - 2.3	SM001-TB07-0305	0.2 - 147	SM004-TB02-1113	5.0E+00	Max. D.L. >SSL
1,2,4-Trichlorobenzene	120-82-1	mg/kg	4 - 64	0.2 - 19.2	SM001-TB06-2022	0.2 - 122	SM004-TB02-1113	5.0E+00	Max. Det. & D.L. > SSL
1,2-Dichlorobenzene	95-50-1	mg/kg	53 - 66	0.2 - 4540	SM003-TB01-1113	0.2 - 12.4	SM001-TB03-1517	1.7E+01	Max. Det.>SSL
1,3-Dichlorobenzene	541-73-1	mg/kg	1 - 64	3.16 - 3.16	SM004-TB01-2729	0.2 - 122	SM004-TB02-1113	1.7E+01	Max. D.L. >SSL
1,4-Dichlorobenzene	106-46-7	mg/kg	12 - 63	0.1 - 449	SM002-TB01-2931	0.1 - 122	SM004-TB02-1113	2.0E+00	Max. Det. & D.L. > SSL
2,4,6-Trichlorophenol	88-06-2	mg/kg	0 - 63	NA		0.1 - 122	SM004-TB02-1113	2.0E-01	Max. D.L. >SSL
2,4-Dichlorophenol	120-83-2	mg/kg	1 - 63	0.1 - 0.1	SM004-TB01-2527	0.1 - 122	SM004-TB02-1113	1.0E+00	Max. D.L. >SSL
2,4-Dimethylphenol	105-67-9	mg/kg	0 - 63	NA		0.1 - 122	SM004-TB02-1113	9.0E+00	Max. D.L. >SSL
2,4-Dinitrophenol	51-28-5	mg/kg	0 - 63	NA		1.44 - 758	SM004-TB02-1113	3.0E-01	Max. D.L. >SSL
2,4-Dinitrotoluene	121-14-2	mg/kg	9 - 65	0.3 - 23.5	SM004-TB05-0406	0.2 - 122	SM004-TB02-1113	8.0E-04	Max. Det. & D.L. > SSL
2,6-Dichlorophenol	87-65-0	mg/kg	0 - 63	NA		0.2 - 122	SM004-TB02-1113	1.0E+00	Max. D.L. >SSL
2,6-Dinitrotoluene	606-20-2	mg/kg	8 - 65	0.37 J - 97.2	SM004-TB01-2527	0.2 - 122	SM004-TB02-1113	7.0E-04	Max. Det. & D.L. > SSL
2-Chlorophenol	95-57-8	mg/kg	0 - 63	NA		0.2 - 122	SM004-TB02-1113	4.0E+00	Max. D.L. >SSL
2-Nitrodiphenylamine	86-30-6	mg/kg	0 - 64	NA		0.2 - 122	SM004-TB02-1113	1.0E+00	Max. D.L. >SSL
3,3'-Dichlorobenzidine	91-94-1	mg/kg	0 - 64	NA		0.1 - 746	SM004-TB02-1113	7.0E-03	Max. D.L. >SSL
Benzo(a)anthracene	56-55-3	mg/kg	1 - 64	16.8 - 16.8	SM001-TB03-2931	0.2 - 159	SM004-TB02-1113	2.0E+00	Max. Det. & D.L. > SSL
Benzo(a)pyrene	50-32-8	mg/kg	2 - 64	0.26 - 14.3	SM001-TB03-2931	0.1 - 122	SM004-TB02-1113	8.0E+00	Max. Det. & D.L. > SSL
Benzo(b)fluoranthene	205-99-2	mg/kg	3 - 64	0.1 - 12.2	SM001-TB03-2931	0.1 - 122	SM004-TB02-1113	5.0E+00	Max. Det. & D.L. > SSL
Benzo(k)fluoranthene	207-08-9	mg/kg	1 - 64	18.1 - 18.1	SM001-TB03-2931	0.2 - 122	SM004-TB02-1113	4.9E+01	Max. D.L. >SSL
bis(2-Chloroethyl)ether	111-44-4	mg/kg	1 - 64	0.25 - 0.25	SM002-TB03-1719	0.2 - 122	SM004-TB02-1113	4.0E-04	Max. Det. & D.L. > SSL
Carbazole	86-74-8	mg/kg	0 - 46	NA		1.16 - 611	SM004-TB02-1113	6.0E-01	Max. D.L. >SSL
Dibenz(a,h)anthracene	53-70-3	mg/kg	0 - 64	NA		0.2 - 122	SM004-TB02-1113	2.0E+00	Max. D.L. >SSL
Hexachlorobenzene	118-74-1	mg/kg	0 - 64	NA		0.2 - 122	SM004-TB02-1113	2.0E+00	Max. D.L. >SSL
Hexachlorobutadiene	87-68-3	mg/kg	0 - 64	NA		0.2 - 122	SM004-TB02-1113	2.0E+00	Max. D.L. >SSL
Hexachloroethane	67-72-1	mg/kg	0 - 64	NA		0.2 - 122	SM004-TB02-1113	5.0E-01	Max. D.L. >SSL
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	1 - 64	2.88 - 2.88	SM001-TB03-2931	0.2 - 122	SM004-TB02-1113	1.4E+01	Max. D.L. >SSL
Isophorone	78-59-1	mg/kg	0 - 64	NA		0.2 - 122	SM004-TB02-1113	5.0E-01	Max. D.L. >SSL
m,p-cresol	108-39-4	mg/kg	6 - 63	0.38 J - 541	SM004-TB02-1113	0.2 - 127	SM002-TB01-4143	1.5E+01	Max. Det. & D.L. > SSL
Naphthalene	91-20-3	mg/kg	4 - 64	0.3 - 2.1	SM001-TB06-2022	0.2 - 122	SM004-TB02-1113	8.4E+01	Max. D.L. >SSL
Nitrobenzene	98-95-3	mg/kg	7 - 64	0.27 - 13	SM004-TB05-0406	0.1 - 122	SM004-TB02-1113	1.0E-01	Max. Det. & D.L. > SSL
n-Nitroso-di-n-propylamine	621-64-7	mg/kg	0 - 64	NA		0.2 - 122	SM004-TB02-1113	5.0E-05	Max. D.L. >SSL
n-Nitrosodiphenylamine	86-30-6	mg/kg	6 - 64	0.2 - 50.7	SM002-TB01-3537	0.2 - 159	SM004-TB02-1113	1.0E+00	Max. Det. & D.L. > SSL
o-Cresol	95-48-7	mg/kg	5 - 63	0.2 - 5.3	SM004-TB05-0406	0.2 - 122	SM004-TB02-1113	1.5E+01	Max. D.L. >SSL
p-Chloroaniline	106-47-8	mg/kg	24 - 65	0.3 - 572	SM003-TB02-0001	0.2 - 122	SM004-TB02-1113	7.0E-01	Max. Det. & D.L. > SSL
Pentachlorophenol	87-86-5	mg/kg	0 - 63	NA		0.1 - 122	SM004-TB02-1113	3.0E-02	Max. D.L. >SSL
Phenol	108-95-2	mg/kg	15 - 64	0.26 J - 445	SM002-TB01-3133	0.1 - 21.9	SM002-TB01-3537	1.0E+02	Max. Det.>SSL
VOLATILE ORGANIC COMPOUNDS									
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	0 - 74	NA		0.1 - 960	SM001-TB06-2022	3.0E-03	Max. D.L. >SSL
1,1,1-Trichloroethane	71-55-6	mg/kg	0 - 74	NA		0.136 - 1440	SM001-TB06-2022	2.0E+00	Max. D.L. >SSL
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	0 - 74	NA		0.1 - 960	SM001-TB06-2022	3.0E-03	Max. D.L. >SSL
1,1,2-Trichloroethane	79-00-5	mg/kg	0 - 74	NA		0.1 - 960	SM001-TB06-2022	2.0E-02	Max. D.L. >SSL
1,1-Dichloroethane	75-34-3	mg/kg	0 - 74	NA		0.1 - 960	SM001-TB06-2022	2.3E+01	Max. D.L. >SSL
1,1-Dichloroethene	75-35-4	mg/kg	0 - 74	NA		0.1 - 960	SM001-TB06-2022	6.0E-02	Max. D.L. >SSL
1,1-Dichloropropene	563-58-6	mg/kg	0 - 74	NA		0.136 - 1440	SM001-TB06-2022	4.0E-03	Max. D.L. >SSL

TABLE 4.2-5
Screening of Total Soils to USEPA Leaching Soil Screening Levels: SWMU Group A

Constituent	CAS Number	Units	Frequency of Detection	Range of Detections	Sample of Maximum Detection	Range of Detection Limits	Sample of Maximum Detection Limit	Soil Screening Level[1] 20 DAF	Maximum Detection or Detection Limit Exceeds SSL
1,2-Dichloroethane	107-06-2	mg/kg	0 - 74	NA		0.1 - 960	SM001-TB06-2022	2.0E-02	Max. D.L. >SSL
1,2-Dichloropropane	78-87-5	mg/kg	0 - 74	NA		0.1 - 960	SM001-TB06-2022	3.0E-02	Max. D.L. >SSL
1,3-Dichloropropane	142-28-9	mg/kg	0 - 74	NA		0.1 - 480	SM001-TB06-2022	3.0E-02	Max. D.L. >SSL
2,2-Dichloropropane	590-20-7	mg/kg	0 - 74	NA		0.1 - 960	SM001-TB06-2022	3.0E-02	Max. D.L. >SSL
Acetone	67-64-1	mg/kg	0 - 74	NA		0.6 - 4800	SM001-TB06-2022	1.6E+01	Max. D.L. >SSL
Benzene	71-43-2	mg/kg	21 - 74	0.187 J - 472 J	SM004-TB02-1113	0.136 - 1440	SM001-TB06-2022	3.0E-02	Max. Det. & D.L. > SSL
Bromodichloromethane	75-27-4	mg/kg	0 - 74	NA		0.1 - 960	SM001-TB06-2022	6.0E-01	Max. D.L. >SSL
Bromomethane	74-83-9	mg/kg	0 - 74	NA		0.1 - 960	SM001-TB06-2022	2.0E-01	Max. D.L. >SSL
Carbon disulfide	75-15-0	mg/kg	0 - 74	NA		0.1 - 960	SM001-TB06-2022	3.2E+01	Max. D.L. >SSL
Carbon tetrachloride	56-23-5	mg/kg	0 - 74	NA		0.1 - 960	SM001-TB06-2022	7.0E-02	Max. D.L. >SSL
Chlorobenzene	108-90-7	mg/kg	62 - 74	0.169 J - 37800	SM001-TB06-2022	0.1 - 0.174	SM004-TB01-1315	1.0E+00	Max. Det.>SSL
cis-1,2-Dichloroethene	156-59-2	mg/kg	0 - 74	NA		0.1 - 960	SM001-TB06-2022	4.0E-01	Max. D.L. >SSL
Dibromochloromethane	124-48-1	mg/kg	0 - 74	NA		0.1 - 960	SM001-TB06-2022	4.0E-01	Max. D.L. >SSL
Ethylbenzene	100-41-4	mg/kg	4 - 74	0.356 J - 4.55 K	SM001-TB01-0305	0.1 - 960	SM001-TB06-2022	1.3E+01	Max. D.L. >SSL
Methylene chloride	75-09-2	mg/kg	3 - 74	0.5 - 1910	SM001-TB06-2022	0.2 - 31.2	SM004-TB05-0607	2.0E-02	Max. Det. & D.L. > SSL
m,p-xylene	1330-20-7	mg/kg	8 - 74	0.212 J - 23.3 K	SM001-TB01-0305	0.1 - 960	SM001-TB06-2022	2.0E+02	Max. D.L. >SSL
o-Xylene	95-47-6	mg/kg	3 - 74	0.293 J - 9.11 K	SM001-TB01-0305	0.1 - 960	SM001-TB06-2022	1.9E+02	Max. D.L. >SSL
Styrene	100-42-5	mg/kg	0 - 74	NA		0.1 - 960	SM001-TB06-2022	4.0E+00	Max. D.L. >SSL
Tetrachloroethene	127-18-4	mg/kg	0 - 74	NA		0.1 - 960	SM001-TB06-2022	6.0E-02	Max. D.L. >SSL
Toluene	108-88-3	mg/kg	26 - 74	0.2 J - 1920	SM001-TB06-2022	0.1 - 6.46	SM004-TB01-1921	1.2E+01	Max. Det.>SSL
trans-1,2-Dichloroethene	156-60-5	mg/kg	0 - 74	NA		0.1 - 480	SM001-TB06-2022	7.0E-01	Max. D.L. >SSL
Tribromomethane	75-25-2	mg/kg	0 - 74	NA		0.1 - 960	SM001-TB06-2022	8.0E-01	Max. D.L. >SSL
Trichloroethene	79-01-6	mg/kg	12 - 74	0.1 - 24900	SM001-TB06-2022	0.1 - 12	SM004-TB05-0406	6.0E-02	Max. Det. & D.L. > SSL
Trichloromethane	67-66-3	mg/kg	0 - 74	NA		0.1 - 480	SM001-TB06-2022	6.0E-01	Max. D.L. >SSL
Vinyl acetate	108-05-4	mg/kg	0 - 74	NA		0.397 - 4800	SM001-TB06-2022	1.7E+02	Max. D.L. >SSL
Vinyl Chloride	75-01-4	mg/kg	0 - 74	NA		0.1 - 960	SM001-TB06-2022	1.0E-02	Max. D.L. >SSL

[1] USEPA Soil Screening Levels (USEPA, 1996)

TABLE 4.2-6
Screening of Shallow Soil (0-2 feet) to Risk-Based Screening Criteria: SWMU Group A

Constituent	CAS Number	Units	Frequency of Detection	Range of Detections	Sample of Maximum Detection	Range of Detection Limits	Sample of Maximum Detection Limit	Region III Industrial Soil RBC [1]	Maximum Detection or Detection Limit Exceeds RBC
METALS									
Lead	7439-92-1	mg/kg	17 - 17	4.23 - 152	SM001-TB06-0002	NA		4.0E+02	No
PESTICIDES/HERBICIDES									
Heptachlor	76-44-8	mg/kg	0 - 10	NA		0.2 - 11.5	SM003-TB02-0001	1.3E+00	Max. D.L. >RBC
SEMIVOLATILE ORGANIC COMPOUNDS									
1,4-Dichlorobenzene	106-46-7	mg/kg	0 - 13	NA		0.1 - 10.5	SM003-TB02-0001	2.4E+02	No
2,4-Toluenediamine	95-80-7	mg/kg	0 - 13	NA		1 - 52.3	SM003-TB02-0001	1.8E+00	Max. D.L. >RBC
3,3'-Dichlorobenzidine	91-94-1	mg/kg	0 - 13	NA		0.1 - 63.8	SM003-TB02-0001	1.3E+01	Max. D.L. >RBC
Aniline	62-53-3	mg/kg	4 - 13	0.52 J - 30	SM003-TB02-0001	0.2 - 3.57	SM004-TB04-0001	1.0E+03	No
Azobenzene	103-33-3	mg/kg	0 - 13	NA		0.2 - 12.6	SM003-TB02-0001	5.2E+01	No
Benzidine	92-87-5	mg/kg	0 - 13	NA		3.2 - 167	SM003-TB02-0001	2.5E-02	Max. D.L. >RBC
Benzo(a)anthracene	56-55-3	mg/kg	0 - 13	NA		0.2 - 13.6	SM003-TB02-0001	7.8E+00	Max. D.L. >RBC
Benzo(a)pyrene	50-32-8	mg/kg	0 - 13	NA		0.1 - 10.5	SM003-TB02-0001	7.8E-01	Max. D.L. >RBC
Benzo(b)fluoranthene	205-99-2	mg/kg	1 - 13	0.1 J - 0.1 J	SM001-TB07-0002	0.1 - 10.5	SM003-TB02-0001	7.8E+00	Max. D.L. >RBC
Benzo(k)fluoranthene	207-08-9	mg/kg	0 - 13	NA		0.2 - 10.5	SM003-TB02-0001	7.8E+01	No
bis(2-Chloroethyl)ether	111-44-4	mg/kg	0 - 13	NA		0.2 - 10.5	SM003-TB02-0001	5.2E+00	Max. D.L. >RBC
bis(2-Chloroisopropyl)ether	108-60-1	mg/kg	0 - 13	NA		0.2 - 10.5	SM003-TB02-0001	8.2E+01	No
Carbazole	86-74-8	mg/kg	0 - 9	NA		1.18 - 52.3	SM003-TB02-0001	2.9E+02	No
Dibenz(a,h)anthracene	53-70-3	mg/kg	0 - 13	NA		0.2 - 10.5	SM003-TB02-0001	7.8E-01	Max. D.L. >RBC
Hexachlorobenzene	118-74-1	mg/kg	0 - 13	NA		0.2 - 10.5	SM003-TB02-0001	3.6E+00	Max. D.L. >RBC
Hexachlorobutadiene	87-68-3	mg/kg	0 - 13	NA		0.1 - 10.5	SM003-TB02-0001	7.3E+01	No
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	0 - 13	NA		0.2 - 10.5	SM003-TB02-0001	7.8E+00	Max. D.L. >RBC
m-toludine	108-44-1	mg/kg	0 - 13	NA		0.47 - 20.9	SM003-TB02-0001	3.0E+01	No
n-Nitroso-dibutylamine	924-16-3	mg/kg	0 - 13	NA		0.2 - 10.5	SM003-TB02-0001	1.1E+00	Max. D.L. >RBC
N-Nitrosodimethylamine	62-75-9	mg/kg	0 - 13	NA		0.2 - 10.5	SM003-TB02-0001	1.1E-01	Max. D.L. >RBC
n-Nitroso-di-n-propylamine	621-64-7	mg/kg	0 - 13	NA		0.2 - 10.5	SM003-TB02-0001	8.2E-01	Max. D.L. >RBC
o.p-toludine	106-49-0	mg/kg	0 - 13	NA		0.5 - 53.3	SM003-TB02-0001	3.0E+01	Max. D.L. >RBC
Pentachloronitrobenzene	82-68-8	mg/kg	0 - 13	NA		0.2 - 10.5	SM003-TB02-0001	2.2E+01	No
Pentachlorophenol	87-86-5	mg/kg	0 - 12	NA		0.1 - 10.5	SM003-TB02-0001	4.8E+01	No
VOLATILE ORGANIC COMPOUNDS									
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	0 - 17	NA		0.1 - 0.305	SM001-TB05-0001	2.2E+02	No
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	0 - 17	NA		0.1 - 0.159	SM001-TB05-0001	2.9E+01	No
1,1,2-Trichloroethane	79-00-5	mg/kg	0 - 17	NA		0.1 - 0.305	SM001-TB05-0001	1.0E+02	No
1,1-Dichloroethene	75-35-4	mg/kg	0 - 17	NA		0.1 - 0.305	SM001-TB05-0001	9.5E+00	No
1,1-Dichloropropene	563-58-6	mg/kg	0 - 17	NA		0.136 - 0.2	SM002-TB02-0002	3.2E+01	No
1,2,3-Trichloropropane	96-18-4	mg/kg	0 - 17	NA		0.136 - 0.2	SM002-TB02-0002	8.2E-01	No
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	0 - 17	NA		0.1 - 0.6	SM001-TB07-0002	4.1E+00	No
1,2-Dibromoethane	106-93-4	mg/kg	0 - 17	NA		0.1 - 0.159	SM001-TB05-0001	6.7E-02	Max. D.L. >RBC
1,2-Dichloroethane	107-06-2	mg/kg	0 - 17	NA		0.1 - 0.305	SM001-TB05-0001	6.3E+01	No
1,2-Dichloropropane	78-87-5	mg/kg	0 - 17	NA		0.1 - 0.463	SM001-TB05-0001	8.4E+01	No
1,3-Dichloropropane	142-28-9	mg/kg	0 - 17	NA		0.1 - 0.159	SM001-TB05-0001	8.4E+01	No
2,2-Dichloropropane	590-20-7	mg/kg	0 - 17	NA		0.1 - 0.159	SM001-TB05-0001	8.4E+01	No
Acrylonitrile	107-13-1	mg/kg	0 - 17	NA		0.6 - 1.59	SM001-TB05-0001	1.1E+01	No
Benzene	71-43-2	mg/kg	2 - 17	0.54 J - 1.8	SM001-TB02-0002	0.136 - 0.2	SM002-TB02-0002	2.0E+02	No
Bromodichloromethane	75-27-4	mg/kg	0 - 17	NA		0.1 - 0.305	SM001-TB05-0001	9.2E+01	No
Carbon tetrachloride	56-23-5	mg/kg	0 - 17	NA		0.1 - 0.159	SM001-TB05-0001	4.4E+01	No
Chloromethane	74-87-3	mg/kg	0 - 17	NA		0.2 - 0.305	SM001-TB05-0001	4.4E+02	No
cis-1,3-Dichloro-1-propene	10061-01-5	mg/kg	0 - 17	NA		0.1 - 0.159	SM001-TB05-0001	3.2E+01	No
Dibromochloromethane	124-48-1	mg/kg	0 - 17	NA		0.1 - 0.159	SM001-TB05-0001	6.8E+01	No
Methylene chloride	75-09-2	mg/kg	2 - 17	0.5 - 0.7 B	SM002-TB02-0002	0.2 - 0.305	SM001-TB05-0001	7.6E+02	No
Tetrachloroethene	127-18-4	mg/kg	0 - 17	NA		0.1 - 0.159	SM001-TB05-0001	1.1E+02	No
trans-1,3-Dichloropropene	10061-02-6	mg/kg	0 - 17	NA		0.1 - 0.159	SM001-TB05-0001	3.2E+01	No
Tribromomethane	75-25-2	mg/kg	0 - 17	NA		0.1 - 0.159	SM001-TB05-0001	7.2E+02	No
Trichloroethene	79-01-6	mg/kg	2 - 17	0.1 - 0.3 B	SM001-TB07-0002	0.1 - 0.159	SM001-TB05-0001	5.2E+02	No
Vinyl Chloride	75-01-4	mg/kg	0 - 17	NA		0.1 - 0.305	SM001-TB05-0001	3.0E+00	No

[1] Region III Industrial RBCs for Soil (USEPA, Region III, 1999)

NOTE: Only those constituents whose detected concentration or detection limit exceeded the Industrial Soil RBC in the Total Soils Screening are presented here.

TABLE 4.2-7
Screening of Shallow Subsurface Soil (0-5 feet) to Risk-Based Screening Criteria: SWMU Group A

Constituent	CAS Number	Units	Frequency of Detection	Range of Detections	Sample of Maximum Detection	Range of Detection Limits	Sample of Maximum Detection Limit	Region III Industrial Soil RBC [1]	Maximum Detection or Detection Limit Exceeds RBC
METALS									
Lead	7439-92-1	mg/kg	33 - 33	4.23 - 424	SM001-TB03-0305	NA		4.0E+02	Max. Det.>RBC
PESTICIDES/HERBICIDES									
Heptachlor	76-44-8	mg/kg	0 - 19	NA		0.2 - 11.5	SM003-TB02-0001	1.3E+00	Max. D.L. >RBC
SEMIVOLATILE ORGANIC COMPOUNDS									
1,4-Dichlorobenzene	106-46-7	mg/kg	3 - 26	0.35 - 6.5	SM001-TB07-0305	0.1 - 10.5	SM003-TB02-0001	2.4E+02	No
2,4-Toluenediamine	95-80-7	mg/kg	1 - 26	66.5 J - 66.5 J	SM004-TB02-0305	1 - 52.3	SM003-TB02-0001	1.8E+00	Max. Det. & D.L. > RBC
3,3'-Dichlorobenzidine	91-94-1	mg/kg	0 - 26	NA		0.1 - 63.8	SM003-TB02-0001	1.3E+01	Max. D.L. >RBC
Aniline	62-53-3	mg/kg	8 - 26	0.3 - 30	SM003-TB02-0001	0.2 - 3.84	SM004-TB03-0305	1.0E+03	No
Azobenzene	103-33-3	mg/kg	0 - 26	NA		0.2 - 12.6	SM003-TB02-0001	5.2E+01	No
Benzidine	92-87-5	mg/kg	0 - 26	NA		3.2 - 167	SM003-TB02-0001	2.5E-02	Max. D.L. >RBC
Benzo(a)anthracene	56-55-3	mg/kg	0 - 26	NA		0.2 - 13.6	SM003-TB02-0001	7.8E+00	Max. D.L. >RBC
Benzo(a)pyrene	50-32-8	mg/kg	1 - 26	0.26 - 0.26	SM002-TB03-0305	0.1 - 10.5	SM003-TB02-0001	7.8E-01	Max. D.L. >RBC
Benzo(b)fluoranthene	205-99-2	mg/kg	2 - 26	0.1 J - 0.42	SM002-TB03-0305	0.1 - 10.5	SM003-TB02-0001	7.8E+00	Max. D.L. >RBC
Benzo(k)fluoranthene	207-08-9	mg/kg	0 - 26	NA		0.2 - 10.5	SM003-TB02-0001	7.8E+01	No
bis(2-Chloroethyl)ether	111-44-4	mg/kg	0 - 26	NA		0.2 - 10.5	SM003-TB02-0001	5.2E+00	Max. D.L. >RBC
bis(2-Chloroisopropyl)ether	108-60-1	mg/kg	0 - 26	NA		0.2 - 10.5	SM003-TB02-0001	8.2E+01	No
Carbazole	86-74-8	mg/kg	0 - 18	NA		1.18 - 52.3	SM003-TB02-0001	2.9E+02	No
Dibenz(a,h)anthracene	53-70-3	mg/kg	0 - 26	NA		0.2 - 10.5	SM003-TB02-0001	7.8E-01	Max. D.L. >RBC
Hexachlorobenzene	118-74-1	mg/kg	0 - 26	NA		0.2 - 10.5	SM003-TB02-0001	3.6E+00	Max. D.L. >RBC
Hexachlorobutadiene	87-68-3	mg/kg	0 - 26	NA		0.1 - 10.5	SM003-TB02-0001	7.3E+01	No
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	0 - 26	NA		0.2 - 10.5	SM003-TB02-0001	7.8E+00	Max. D.L. >RBC
m-toludine	108-44-1	mg/kg	0 - 26	NA		0.47 - 20.9	SM003-TB02-0001	3.0E+01	No
n-Nitroso-dibutylamine	924-16-3	mg/kg	0 - 26	NA		0.2 - 10.5	SM003-TB02-0001	1.1E+00	Max. D.L. >RBC
N-Nitrosodimethylamine	62-75-9	mg/kg	0 - 26	NA		0.2 - 10.5	SM003-TB02-0001	1.1E-01	Max. D.L. >RBC
n-Nitroso-di-n-propylamine	621-64-7	mg/kg	0 - 26	NA		0.2 - 10.5	SM003-TB02-0001	8.2E-01	Max. D.L. >RBC
o.p-toludine	106-49-0	mg/kg	1 - 26	13.1 J - 13.1 J	SM004-TB02-0305	0.5 - 53.3	SM003-TB02-0001	3.0E+01	Max. D.L. >RBC
Pentachloronitrobenzene	82-68-8	mg/kg	0 - 26	NA		0.2 - 10.5	SM003-TB02-0001	2.2E+01	No
Pentachlorophenol	87-86-5	mg/kg	0 - 25	NA		0.1 - 10.5	SM003-TB02-0001	4.8E+01	No
VOLATILE ORGANIC COMPOUNDS									
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	0 - 33	NA		0.1 - 0.357	SM004-TB02-0305	2.2E+02	No
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	0 - 33	NA		0.1 - 0.2	SM001-TB07-0305	2.9E+01	No
1,1,2-Trichloroethane	79-00-5	mg/kg	0 - 33	NA		0.1 - 0.357	SM004-TB02-0305	1.0E+02	No
1,1-Dichloroethene	75-35-4	mg/kg	0 - 33	NA		0.1 - 0.357	SM004-TB02-0305	9.5E+00	No
1,1-Dichloropropene	563-58-6	mg/kg	0 - 33	NA		0.136 - 0.4	SM001-TB07-0305	3.2E+01	No
1,2,3-Trichloropropane	96-18-4	mg/kg	0 - 33	NA		0.136 - 0.4	SM001-TB07-0305	8.2E-01	No
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	0 - 33	NA		0.1 - 1.2	SM001-TB07-0305	4.1E+00	No
1,2-Dibromoethane	106-93-4	mg/kg	0 - 33	NA		0.1 - 0.2	SM001-TB07-0305	6.7E-02	Max. D.L. >RBC
1,2-Dichloroethane	107-06-2	mg/kg	0 - 33	NA		0.1 - 0.357	SM004-TB02-0305	6.3E+01	No
1,2-Dichloropropane	78-87-5	mg/kg	0 - 33	NA		0.1 - 0.542	SM004-TB02-0305	8.4E+01	No
1,3-Dichloropropane	142-28-9	mg/kg	0 - 33	NA		0.1 - 0.185	SM004-TB02-0305	8.4E+01	No
2,2-Dichloropropane	590-20-7	mg/kg	0 - 33	NA		0.1 - 0.2	SM001-TB07-0305	8.4E+01	No
Acrylonitrile	107-13-1	mg/kg	0 - 33	NA		0.6 - 1.85	SM004-TB02-0305	1.1E+01	No
Benzene	71-43-2	mg/kg	6 - 33	0.191 J - 1.8	SM001-TB02-0002	0.136 - 0.4	SM001-TB07-0305	2.0E+02	No
Bromodichloromethane	75-27-4	mg/kg	0 - 33	NA		0.1 - 0.357	SM004-TB02-0305	9.2E+01	No
Carbon tetrachloride	56-23-5	mg/kg	0 - 33	NA		0.1 - 0.2	SM001-TB07-0305	4.4E+01	No
Chloromethane	74-87-3	mg/kg	0 - 33	NA		0.2 - 0.4	SM001-TB07-0305	4.4E+02	No
cis-1,3-Dichloro-1-propene	10061-01-5	mg/kg	0 - 33	NA		0.1 - 0.2	SM001-TB07-0305	3.2E+01	No
Dibromochloromethane	124-48-1	mg/kg	0 - 33	NA		0.1 - 0.2	SM001-TB07-0305	6.8E+01	No
Methylene chloride	75-09-2	mg/kg	2 - 33	0.5 - 0.7 B	SM002-TB02-0002	0.2 - 0.357	SM004-TB02-0305	7.6E+02	No
Tetrachloroethene	127-18-4	mg/kg	0 - 33	NA		0.1 - 0.2	SM001-TB07-0305	1.1E+02	No
trans-1,3-Dichloropropene	10061-02-6	mg/kg	0 - 33	NA		0.1 - 0.2	SM001-TB07-0305	3.2E+01	No
Tribromomethane	75-25-2	mg/kg	0 - 33	NA		0.1 - 0.2	SM001-TB07-0305	7.2E+02	No
Trichloroethene	79-01-6	mg/kg	3 - 33	0.1 - 0.3 B	SM001-TB07-0002	0.1 - 0.185	SM004-TB02-0305	5.2E+02	No
Vinyl Chloride	75-01-4	mg/kg	0 - 33	NA		0.1 - 0.357	SM004-TB02-0305	3.0E+00	No

[1] Region III Industrial RBCs for Soil (USEPA, Region III, 1999)

NOTE: Only those constituents whose detected concentration or detection limit exceeded the Industrial Soil RBC in the Total Soils Screening are presented here.

TABLE 4.2-8
Screening of Total Soils to Site-Specific Leaching Soil Screening Levels: SWMU Group A

Constituent	CAS Number	Units	Frequency of Detection	Range of Detections	Sample of Maximum Detection	Range of Detection Limits	Sample of Maximum Detection Limit	Site-Specific Soil Screening Level [1]	Maximum Detection or Detection Limit Exceeds SSL
METALS									
Antimony	7440-36-0	mg/kg	7 - 70	0.31 - 5.45	SM002-TB01-2931	0.1 - 0.81	SM002-TB01-3133	8.7E+01	No
Cadmium	7440-43-9	mg/kg	59 - 71	0.47 - 24.3	SM001-TB03-3537	0.2 - 0.51	SM001-TB03-5355	3.6E+02	No
Chromium	7440-47-3	mg/kg	71 - 71	1.1 - 3560	SM002-TB01-0305	NA		2.9E+02	Max. Det.>SSL
Nickel	7440-02-0	mg/kg	71 - 71	2.89 - 4850	SM002-TB01-3739	NA		4.5E+03	Max. Det.>SSL
SEMIVOLATILE ORGANIC COMPOUNDS									
1,2,4-Trichlorobenzene	120-82-1	mg/kg	4 - 61	0.2 - 19.2	SM001-TB06-2022	0.2 - 84.9	SM002-TB01-4143	1.2E+02	No
1,2-Dichlorobenzene	95-50-1	mg/kg	53 - 61	0.2 - 4540	SM003-TB01-1113	0.2 - 12.4	SM001-TB03-1517	3.6E+02	Max. Det.>SSL
1,4-Dichlorobenzene	106-46-7	mg/kg	12 - 61	0.1 - 449	SM002-TB01-2931	0.1 - 84.9	SM002-TB01-4143	8.1E+01	Max. Det. & D.L. > SSL
2,4-Dinitrotoluene	121-14-2	mg/kg	9 - 62	0.3 - 23.5	SM004-TB05-0406	0.2 - 84.9	SM002-TB01-4143	8.8E+00	Max. Det. & D.L. > SSL
2,6-Dinitrotoluene	606-20-2	mg/kg	7 - 62	0.37 J - 97.2	SM004-TB01-2527	0.2 - 84.9	SM002-TB01-4143	6.4E+00	Max. Det. & D.L. > SSL
Benzo(a)anthracene	56-55-3	mg/kg	1 - 61	16.8 - 16.8	SM001-TB03-2931	0.2 - 110	SM002-TB01-4143	3.4E+01	Max. D.L. >SSL
Benzo(a)pyrene	50-32-8	mg/kg	2 - 61	0.26 - 14.3	SM001-TB03-2931	0.1 - 84.9	SM002-TB01-4143	1.9E+02	No
Benzo(b)fluoranthene	205-99-2	mg/kg	3 - 61	0.1 - 12.2	SM001-TB03-2931	0.1 - 84.9	SM002-TB01-4143	1.0E+02	No
bis(2-Chloroethyl)ether	111-44-4	mg/kg	1 - 61	0.25 - 0.25	SM001-TB03-3537	0.2 - 84.9	SM002-TB01-4143	7.8E-04	Max. Det. & D.L. > SSL
m,p-cresol	108-39-4	mg/kg	6 - 61	0.38 J - 55.3	SM004-TB05-0406	0.2 - 127	SM002-TB01-4143	2.1E+02	No
Nitrobenzene	98-95-3	mg/kg	7 - 61	0.27 - 13	SM004-TB05-0406	0.1 - 84.9	SM002-TB01-4143	5.6E-01	Max. Det. & D.L. > SSL
n-Nitrosodiphenylamine	86-30-6	mg/kg	7 - 61	0.2 - 50.7	SM002-TB01-3537	0.2 - 110	SM002-TB01-4143	3.1E+01	Max. Det. & D.L. > SSL
p-Chloroaniline	106-47-8	mg/kg	22 - 62	0.4 - 572	SM003-TB02-0001	0.2 - 84.9	SM002-TB01-4143	1.4E+01	Max. Det. & D.L. > SSL
Phenol	108-95-2	mg/kg	14 - 61	0.39 J - 445	SM002-TB01-3133	0.1 - 21.9	SM002-TB01-3537	2.3E+03	No
VOLATILE ORGANIC COMPOUNDS									
Benzene	71-43-2	mg/kg	21 - 71	0.187 J - 846 J	SM004-TB02-1113	0.136 - 1440	SM001-TB06-2022	4.4E-01	Max. Det. & D.L. > SSL
Chlorobenzene	108-90-7	mg/kg	60 - 71	0.169 J - 37800	SM001-TB06-2022	0.1 - 0.174	SM004-TB01-1315	9.2E+00	Max. Det.>SSL
Methylene chloride	75-09-2	mg/kg	3 - 71	0.5 - 1910	SM001-TB06-2022	0.2 - 31.2	SM004-TB05-0406	2.2E-01	Max. Det. & D.L. > SSL
Toluene	108-88-3	mg/kg	26 - 71	0.2 J - 1920	SM001-TB06-2022	0.1 - 6.46	SM004-TB01-1921	3.6E+02	Max. Det.>SSL
Trichloroethene	79-01-6	mg/kg	12 - 71	0.1 - 24900	SM001-TB06-2022	0.1 - 12	SM004-TB05-0607	1.7E+00	Max. Det. & D.L. > SSL

[1] Soil Screening Levels calculated as per USEPA SSL Guidance (1996); see Appendix F-2

NOTE: Only those constituents whose detected concentration exceeded the USEPA SSL are presented here.

TABLE 4.2-9
Exposure Point Concentrations for Constituents of Interest
SWMU Group A

Depth Interval	Constituent of Interest	Maximum Detected Concentration mg/kg	Distribution	95% UCL mg/kg	EPC mg/kg
0-5 feet	2,4-Toluenediamine	66.5	Assume Lognormal	11.90	11.90

TABLE 4.2-10
Construction Worker Scenario
Risk Summary
SWMU Group A

Constituent of Interest	Ingestion	Dermal	Inhalation of Particulates	Inhalation of Volatiles	TOTAL RISK
Summary of Theoretical Excess Lifetime Cancer Risks					
2,4-Toluenediamine	1.33E-06	5.54E-07	8.39E-11	--	1.88E-06
TOTAL	**1.33E-06**	**5.54E-07**	**8.39E-11**	--	**1.88E-06**

Note: Non-cancer Hazard Indices were not calculated as the COI was not defined as non-carcinogenic.

4.3 SWMU GROUP B

SWMU Group B consists of SWMU 5: Residue Fill Area, Unit 3FC and SWMU 6: Residue Fill Area 6: Unit 3FD. These units were combined after Phase 2 of the RFI based on proximity and similar analytical results.

SWMU 5: Residue Fill Area, Unit 3Fc

SWMU 5 (Residue Fill Area, Unit 3FC) was a residue storage pile approximately 20 feet high over a one-acre area, and located in the southern extension of Block 21. Some of this material was removed from block 21 and used to create berms for the equalization basin and rainwater lagoon area. Previous reports indicate that berms for these basins were constructed by excavating residue fill from the bottom of the basins and placing and compacting the material to build the basin lagoon berms.

SWMU 6: Residue Fill Area, Unit 3Fd

SWMU 6 (Residue Fill Area, Unit 3Fd) was a fill area in the southern portion of the plant. From 1954 to 1972, approximately 14 feet of fill was placed in the Wastewater Treatment Area, specifically in the clarifier and bioxidation tank areas. Fill material may have been crushed and compacted chemical residue. Some of this residue may have been excavated from a residue storage pile located in Block 21.

4.3.1 RFI Scope of Work

The scope of work at this SWMU Group consisted of a soil gas survey during Phase 1, and soil sampling performed during Phase 2 and 3.

4.3.1.1 Phase 1 Scope of Work

Soil Gas Survey

A soil gas survey was conducted at SWMU Group B, which consists of SWMU 5 and 6, in the fall of 1996 (ICF Kaiser, 1997). Numerous soil gas samples were collected in and around SWMU Group B at 2.5 and 7.5 ft-bgs at the locations illustrated in Figures C-3 and C-4 of Appendix C.

Total VOC concentrations in soil gas are considered to be elevated if found above 100 µg/L. This is considered a conservative cut-off value and was derived after several years of comparing actual analytical soil chemistry results with soil gas results. The soil gas survey showed that the

primary area of elevated soil gas readings was located where SWMUs 5, 6, and 10 overlap. This appears to indicate that the elevated soil gas readings are more indicative of SWMU 10 and not related to the fill materials in SWMU 5 and 6. The primary constituents identified by the soil gas survey are chlorobenzene (maximum concentration of 533 μg/L), benzene (maximum concentration of 1,480 μg/L), toluene (maximum concentration of 240 μg/L), and hydrocarbons (maximum concentration of 93 μg/L).

4.3.1.2 Phase 2 Scope of Work

The scope of work for Phase 2 was based on the findings of the previous investigation work and on the Work Plan. Sixteen test borings were installed in SWMU Group B for the purposes of collecting samples for laboratory and geotechnical analysis for the residue fill area.

Test borings in SWMU Group B were drilled to depths ranging from 7.5 to 32 ft-bgs. Samples were collected from each boring at the surface (0 to 1 or 2 ft-bgs) and the shallow subsurface (3 to 5 ft-bgs). Additional samples were taken from areas with elevated OVM readings and the two foot interval above groundwater.

Additional samples were collected from SM005-TB02, SM005-TB04, SM005-TB05, SM005-TB08, SM005-TB09, SM005-TB10, SM006-TB01, SM006-TB02, SM006-TB03, SM006-TB04, and SM006-TB05, where field screening with the OVM indicated the presence of organic vapors at elevated concentrations. The intervals that were sampled due to elevated organic vapors generally correspond to the areas where TDI residue was encountered or mixed with fill materials (sand and silt). The samples were submitted for analysis of SVOCs, metals, VOCs and TOCs. Table 4.3-1 presents the complete soil analytical results for SWMU Group B and Figure 4.3-1 provides selected soil analytical results on a plan view map.

Shelby Tube samples for geotechnical analysis were collected from twin borings drilled beside SM005-TB03, SM005-TB05, and SM006-TB02. Samples from SM005-TB03 were taken from 0 to 2, and from 14 to 16 ft-bgs intervals and marked for sieve and hydrometer analysis. Samples from SM005-TB05 were taken from 3 to 5, and from 22 to 24 ft-bgs intervals. The 3 to 5 ft-bgs sample was marked for sieve and hydrometer, Atterberg limits, moisture content, bulk density, specific gravity, consolidation, and permeability analyses. The 22 to 24 ft-bgs sample was marked for sieve and hydrometer, moisture content, bulk density, specific gravity, and permeability analyses. Samples from SM006-TB02 were taken from 0 to 2.5, from 3 to 5, from 5 to 7, and from 15 to 17 ft-bgs. The 0 to 2.5 ft-bgs sample from SM006-TB02 was marked for

sieve and hydrometer, as well as bulk density analyses. The remaining samples from SM006-TB02 were marked for sieve and hydrometer, bulk density, specific gravity, and permeability analyses. The geotechnical laboratory results are presented in Appendix E.

4.3.1.3 Phase 3 Scope of Work

The Phase 3 scope of work at SWMU Group B consisted of soil sampling at 6 new locations (SM005-TB12, SM005-TB13, SM005-TB14, SM005-TB15, SM006-TB06, and SM006-TB07) for VOC, SVOC, and metals analyses. Soil samples were collected from each boring at the surface (0 to 1 or 2 ft-bgs) and the shallow subsurface (3 to 5 ft-bgs). Additional samples were taken from areas with elevated OVM readings, when present, and the two-foot interval above groundwater. Additionally, the 0-1 ft-bgs and 3-5 ft-bgs intervals of SM005-TB11 were resampled for SVOCs.

4.3.2 Field Observations

The boring logs for SWMU 5 (Appendix D) indicate that subsurface materials encountered during consist of gravel, silty sands, silty clays, and TDI residue. Table 4.3-2 summarizes the field observations for the test borings in SWMU Group B.

SWMU 5 Soil Borings

Test Borings SM005-TB03, -TB04, -TB09, and -TB10 were drilled through asphalt into a gravel subbase typically 1.5 feet thick. All other borings were drilled through gravel prior to encountering brown to reddish and yellowish brown silty sands ranging in thickness from 1.5 to 16 feet thick. The horizon of silty sand was not observed in test borings SM005-TB07 and SM005-TB11, where a thick section of gravel was observed instead. TDI residue was observed beneath the silty sand in all of the borings except for SM005-TB06, -TB07, -TB08, and -TB11, and ranged in thickness from 1 to 14 feet thick. In test borings SM005-TB02 and SM005-TB10, the TDI residue occurred in alternating layers with silty sands. Test Boring SM005-TB05 encountered a black, tar-like substance mixed with the TDI residue. OVM screening did not yield a value over background in this interval. The TDI residue was observed to be underlain by a silty clay in five of the eleven borings, including SM005-TB01, -TB02, -TB03, -TB05, and -TB07. The silty clay ranged between 5 and 9 feet thick.

In addition to sediments and TDI residue, SM005-TB08 and SM005-TB09 penetrated partially decomposing wood from 12 to 13 ft-bgs and at 5 ft-bgs, respectively.

Four test borings, SM005-TB02, -TB05, -TB07, and -TB10 encountered perched groundwater between 5 and 15 ft-bgs. All test borings, with the exception of SM005-TB11, encountered the alluvial aquifer. Boring SM005-TB11 met refusal after penetrating 7.5 ft-bgs through sandy gravel.

The Phase 3 borings completed within SWMU 5 indicated the presence of TDI residue in samples from boring SM005-SM13, SM005-TB14, and SM005-TB15. SM005-TB15 encountered TDI residue to a depth exceeding 16 ft-bgs. Elevated OVM readings were encountered in each of the new borings.

SWMU 6 Soil Borings

The boring logs for SWMU 6 (Appendix D) indicate that subsurface materials encountered during Phase 2 consist of gravel, sand, sandy silts, silty to sandy clays, and waste that was used as fill in the area. Table 4.3-2 summarizes the field observations for the test borings in SWMU 6. Test boring SM006-TB05 was drilled through asphalt into a gravel subbase 2 feet thick. All other borings drilled through 0.5 to 3 feet of gravel. Test borings SM006-TB01, SM006-TB03, and SM006-TB04 penetrated a dark brown to yellowish brown sandy silt ranging from 2 to 5.5 feet thick. In test boring SM006-TB05, a thick section of dark brown to yellowish brown silty clay was observed rather than the horizon of silty sand. SM006-TB02 encountered dark brown sand underlying the gravel, grading into the sandy silt observed in the other boring at SWMU 6. The sandy silt was underlain with a dark brown to dark gray silty clay in all of borings, with the exception of SM006-TB05, which had the silty clay from immediately beneath the gravel to total depth. The silty clay ranged from 8 to 22.5 feet thick and contained wastes such as glass fragments, brick fragments, partially decomposed wood, and polycarbonate resin.

Perched groundwater was encountered only in test boring SM006-TB04 at 7 ft-bgs. All test borings encountered the alluvial aquifer between 19 and 23.4 ft-bgs.

The Phase 3 borings completed within SWMU 6 did not encounter TDI residue or other waste materials. OVM readings were slightly elevated in the 8-12 ft-bgs interval of SM006-TB06 (3 PPM) and 12-16 ft-bgs interval of SM006-TB07 (6 PPM).

4.3.3 Risk Assessment Results

SWMU Group B consists of SWMU 5, and SWMU 6. Table 4.3-1 provides complete analytical results for SWMU Group B. Table 4.3-3 and Table 4.3-4 present a summary of the constituents screened in soil at all depths respectively at SWMU Group B. The screening tables identify

constituents with detections and/or detection limits exceeding either the Region III industrial and residential RBCs or the USEPA SSLs. The maximum detected concentrations, the maximum detection limits, the frequency of detection, and a comparison of the detected concentrations and detection limits to the screening criteria are also presented in Tables 4.3-3 and 4.3-3.

4.3.3.1 Comparison to Risk Based Criteria

As indicated on Table 4.3-3, there are five organics with maximum detected concentrations exceeding the Region III RBCs for industrial soil and thirty-six organics with maximum detection limits exceeding the Region III RBCs for industrial soil. There are sixteen organics and one inorganic with maximum detected concentrations exceeding the Region III RBCs for residential soil and fifty-six organics with maximum detection limits exceeding the Region III RBCs for residential soil.

USEPA SSLs were compared to maximum detected concentrations and maximum detection limits in soils at all depths in Table 4.3-4. As indicated on the table, there are eighteen organics and two inorganics with maximum detected concentrations exceeding the USEPA SSLs. Additionally, there are sixty-nine organics with maximum detection limits exceeding the USEPA SSLs. All constituents whose maximum detected concentrations exceed the USEPA SSL were evaluated further in a comparison to site-specific SSLs. This comparison is discussed in Section 4.3.3.2. All constituents whose maximum detected concentrations or maximum detection limits that exceed the Region III RBC for industrial soil were evaluated separately in the screening risk assessments for the 0-2 feet and the 0-5 feet soil depth intervals. These screening assessments are discussed below and are presented in Tables 4.3-5 and 4.3-6 respectively.

As indicated on Table 4.3-5, only 2,4-toluenediamine had a maximum detected concentration that exceeded its the Region III RBC for industrial soil at 0-2 feet in depth. Ten constituents had detection limits that exceeded the Region III RBCs for industrial soil at 0-2 feet in depth. As indicated on Table 4.3-6, one constituent (2,4-toluenediamine) was detected at a concentration that exceeded the Region III RBC for industrial soil at 0-5 feet in depth. Twenty-two constituents had detection limits that exceeded the Region III RBCs for industrial soil at 0-5 feet in depth.

Generally, detection limits that exceeded respective Region III Industrial Soil RBCs were elevated, as identified in samples SM005-TB09-0001 and SM006-TB04-0001 for 0-2 feet soils and samples SM005-TB02-0305 and SM006-TB03-0305 for 0-5 feet soils.

The only COI, defined as those constituents whose maximum detected concentration exceeded its respective Region III Industrial soil RBC, was 2,4-toluenediamine. This constituent was identified as a COI for the 0-2 and 0-5 feet intervals based on the maximum detection exceeding the respective Region III RBC. This COI is evaluated further in the risk assessment because it is related to processes at the Bayer New Martinsville facility.

Several constituents in both the 0-2 feet depth interval and the 0-5 feet depth interval had detection limits that exceeded their respective Region III RBC for industrial soil. These constituents were not identified as COIs and are not evaluated further in the risk assessment. Of these constituents, 1,2-dibromoethane, heptachlor, hexachlorobenzene, dibenz(a,h)anthracene, n-nitroso-dibutylamine, n-nitroso-di-n-propylamine, n-nitroso-dimethylamine, 1,2,3-trichloro-propane, pentachloronitrobenzene, acrylonitrile, vinyl chloride, and benzidine were not detected at the SWMU Group and they were not detected at any depth in any soils site-wide. These constituents are not related to any process at the Bayer New Martinsville facility (Bayer, 2000). The remaining constituents (3,3'-dichlorobenzidine, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, bis(2-chloroethyl)ether, indeno(1,2,3-cd)pyrene, 1,2-dibromo-3-chloro-propane, m-toluidine and o,p-toluidine) whose detection limits exceed their respective Region III RBCs were not identified as COIs because their exceedances were based on elevated detection limits. Discussion of these constituents is deferred to the uncertainty discussion in Appendix F-1, SWMU-specific Uncertainties.

4.3.3.2 Site-Specific Soil Screening Levels

The potential for leaching from soil to groundwater at this SWMU Group is further evaluated using site-specific SSLs. Site-specific SSLs were derived for SWMUs 5 and 6 in Phase 2 using site-specific data. SSLs were calculated to further evaluate if the constituents detected within the unsaturated zone at levels exceeding the USEPA SSLs could potentially migrate to groundwater at concentrations of concern. Site-specific SSLs were calculated for each constituent whose maximum detection exceeded the USEPA SSL. The most conservative site-specific SSL for the individual SWMUs was assumed as the site-specific SSL for the entire SWMU Group. The maximum detected concentration of each constituent was then compared to the site-specific SWMU Group SSL. Site-specific SSLs for the SWMU Group B are presented in Table 3.2-2.

Table 4.3-7 presents a comparison between the calculated SSLs and the maximum detected concentrations of those constituents that exceed the USEPA SSL in soils at all depths. One

inorganic and eleven organics have maximum detected concentrations that exceed the site-specific SSLs.

4.3.3.3 Exposure Assessment

Exposure point concentrations used for SWMU Group B COIs are presented in Table 4.3-8. The EPC for 2,4-toluenediamine was evaluated as 67.3 mg/kg in the 0-2 feet interval and 2,435 mg/kg in the 0-5 feet interval. The distribution was assumed to be lognormal as the data distribution was undefined in both soil intervals. These concentrations were calculated using the equations in Section 3 and appropriate exposure parameters for the receptors evaluated.

The risk calculations for the industrial worker scenario in SWMU B were based on a refined receptor evaluation. The exposure parameters for the industrial worker, as cited in Section 3.2, were incorporated into the risk calculations. The fraction of impacted soil is defined as the fraction of environmental media contacted, via ingestion, dermal contact, or inhalation, at the area being evaluated. The FC is assumed to be 1.0 in most cases, but it may be based on best professional judgment. The FC is conservatively estimated to be 50% for the industrial worker at SWMU Group B. An exposure assumption value of 1.0 for the FC is not reasonable or realistic for SWMU B for the following reasons. SWMU 5 is currently an equalization basin and rainwater lagoon with a grass-covered perimeter; the entire SWMU covers approximately 1 acre. The physical setting of SWMU 5 suggests that there is very little surface soil to be contacted at the unit. Industrial workers, although conservatively estimated to be at SWMU B for eight hours per day, five days per week, 50 weeks of the year, would likely only be present at the SWMU Group for a small portion of that time contacting the fraction of available surface soil. An FC of 50% reflects the realistic amount of surface soil available for the industrial worker to contact.

The risk calculations for the construction worker scenario in SWMU B were also refined. The calculations incorporated the exposure assumption values cited in Section 3.2 with the exception of the EF value for construction workers. The generic EF value for construction workers, provided in Section 3.2, is 130 days per year. This value is based on the assumption that an excavation/construction worker could have contact with subsurface soils 5 days per week for 26 weeks. This particular exposure assumption value is not reasonable or realistic for SWMU B for the following reasons. SWMU 5 is currently an equalization basin and rainwater lagoon that is approximately 20 feet high and covers approximately 1 acre. It would not be reasonable to expect extensive construction activities at SWMU 5 especially if the integrity of the lagoon is to be maintained. If there were construction activities at SWMU 5 they would most likely occur

along the fringe of the berm towards the outside of the lagoon. A small-scale construction/excavation project such as the installation of utility lines is a more likely and reasonable activity at this location rather than a large-scale construction project. SWMU 6 is the Wastewater Treatment Area. As with SWMU 5, a large-scale construction project in this area is not anticipated, especially if the integrity of the clarifiers and bioxidation tanks are to be maintained. As a result, the EF value for SWMU B was changed to 30 days per year, which is still conservative since the value assumes exposures to subsurface soils 5 days per week for 6 weeks.

4.3.3.4 Exposure Risk Assessment Results

Table 4.3-9 provides a summary of the theoretical excess lifetime cancer risks for the industrial worker and construction worker receptors. Non-cancer hazard indices were not calculated for either receptor because the non-cancer risk for 2,4-TDA is much less and insignificant compared to the cancer risk. Therefore, the non-cancer risk did not need to be calculated. Based on a refined receptor evaluation, the total cancer risk for the industrial worker is 9×10^{-5}, which is within the acceptable range of 1×10^{-4} to 1×10^{-6} for human health risk established by the USEPA.

Table 4.3-9 also provides a summary of the theoretical excess lifetime cancer risks for the construction worker receptor. Based on a refined receptor evaluation, the total cancer risk for the construction worker is 9×10^{-5}, which is within the acceptable range of 1×10^{-4} to 1×10^{-6} for human health risk established by the USEPA.

4.3.4 Discussions With USEPA

SWMUs 5 and 6 were discussed with USEPA on April 21, 1999, July 26, 2000, and August 14, 2000. The April 21, 1999 discussion was conducted after submission of the Phase 2 Report (ICF Kaiser, 1998). During the April 21, 1999 discussion, USEPA agreed that samples from borings SM006-TB03 and –TB04 did not make a difference in the statistical outcome of SWMU 6. It was also agreed that additional borings were needed to further delineate the boundaries of SWMU 6. The discussion resulted in SWMUs 5 and 6 being combined into SWMU Group B. USEPA concurred with the Phase 2 findings, indicating that further evaluation of these units should be performed as part of the Phase 3 investigation and samples should be collected as indicated in the Phase 2 Report.

The July 26, 2000 and August 14, 2000 discussions were conducted after the initial submission of the Final RFI Report (IT, 2000). During these discussions, IT indicated that the risk assessment was conservative based on the surface conditions in this area. The accessible area of the site is covered with asphalt and gravel. The remainder of the site consists of two impoundments with steep berms. USEPA requested that a surface condition map, Figure 4.3-2, be prepared to aid in the understanding of the site conditions. Based on the surface conditions, USEPA concurred that the exposure scenario used in the risk assessment for the industrial worker was conservative because the direct soil contact pathway was not complete for the accessible portion of the SWMU group.

USEPA also requested further evaluation of detection limits which exceeded the industrial RBCs. The detection limit evaluation is presented in Appendix F. USEPA concurred that elevated detection limits are not an issue based on the rationale presented in Appendix F.

Based on the risk analysis and the discussions, USEPA concurred with the findings and recommendations presented in Section 4.3.5: 1) no further action based on exposure risk; 2) inclusion in the facility's institutional control plan for worker protection during subsurface excavation based on constituents exceeding the industrial RBCs; and 3) further evaluation as part of the sitewide groundwater CMS for constituents exceeding the site-specific SSLs which are also found in groundwater.

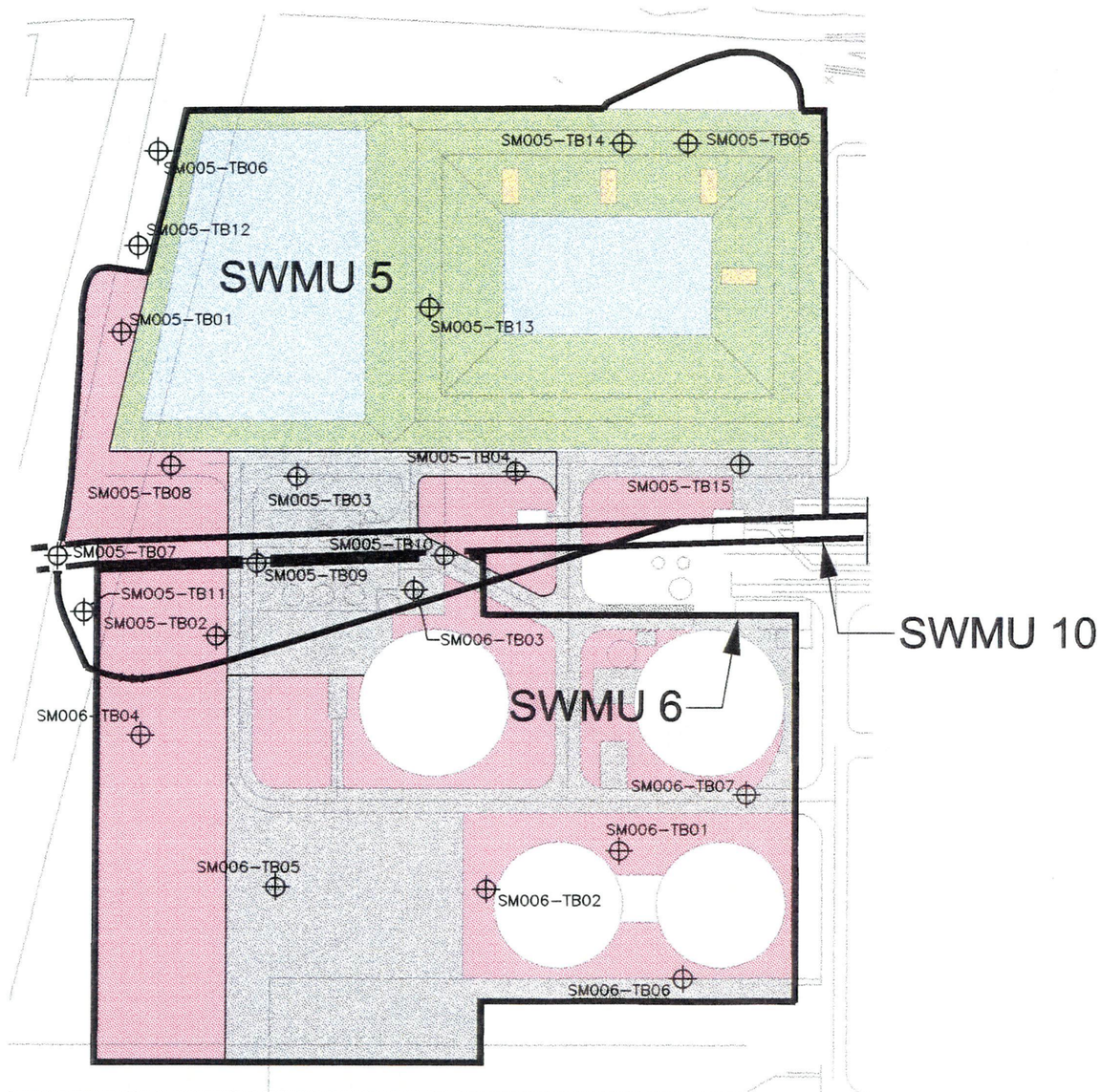
4.3.5 Conclusions and Recommendations

Based on the exposure risk assessment results, no further action is warranted at SWMU Group B. This conclusion is based on the calculated risks for industrial and construction worker scenarios, which are within the acceptable range defined by USEPA. Additionally, only one constituent (2,4-TDA) exceeded the USEPA Region III industrial RBCs in shallow soil (0-5 ft-bgs). All the samples that exceeded the industrial RBC for 2,4-TDA consisted predominantly of TDI residue, a visually distinctive material. Because constituents exceed industrial RBCs, Bayer will include SWMU Group B in the facility's institutional control plan for worker safety while performing subsurface work. Comparison to site-specific SSLs indicates a potential for constituents to leach to groundwater at potentially unacceptable concentrations.

One inorganic (nickel) and ten organics (benzene, chlorobenzene, trichloroethene, 1,2-dichlorobenzene, 2,4-dinitrotoluene, 2,6-dinitrotoluene, bis(2-chloroethyl)ether, nitrobenzene, m,p-cresol, and p-chloroaniline) exceeded the site-specific SSLs. Bayer performs quarterly

groundwater monitoring in accordance with a USEPA-approved groundwater monitoring plan. The objective of the groundwater monitoring plan is to ensure that potentially impacted groundwater is captured by on-site recovery wells. The groundwater monitoring has been performed at the facility since 1986 and has consistently shown on-site capture of groundwater by the site's pumping wells.

Although no further action is recommended for SWMU Group B based on the exposure assessment, the potential for constituents to leach to groundwater is a potential concern. Therefore, SWMU Group B will be evaluated as a potential source area for constituents identified in groundwater and further action, if necessary, at this SWMU will be evaluated as part of a CMS for groundwater.



LEGEND:

- GRAVEL
- WATER
- CONCRETE
- ASPHALT
- DIRT/SOIL

SCALE

0 120 240 FEET

IT CORPORATION

BAYER NEW MARTINSVILLE
NEW MARTINSVILLE, WEST VIRGINIA

FIGURE 4.3-2
SURFACE CONDITIONS
FOR SWMU GROUP B
(SWMUs 5 AND 6)
BAYER, NEW MARTINSVILLE

DRAWING NUMBER 800588-B39
APPROVED BY
CHECKED BY
DRAWN BY B. Snyder 8/10/00
OFFICE Pittsburgh, PA
Plot Date/Time: 11/27/01 01:14pm Image: .
Format Revised: 12/15/99 Xref: .

LE 4.3-1
Soil Analytical Results for
SWMU Group B: SWMUs 5 and 6

SAMPLE ID	SM005-TB01-0001	SM005-TB01-0305	SM005-TB01-1416	SM005-TB02-0001	SM005-TB02-0305	SM005-TB02-0509	SM005-TB02-1517	SM005-TB02-1820	SM005-TB03-0001	SM005-TB03-0001RS
SAMPLE DEPTH(ft)	0.00-1.00	3.00-5.00	14.00-16.00	0.00-1.00	3.00-5.00	5.00-9.00	15.00-17.00	18.00-20.00	0.00-1.00	0.00-1.00
SAMPLE LOCATION	TB01	TB01	TB01	TB02	TB02	TB02	TB02	TB02	TB03	TB03
SAMPLE DATE	6/19/1997	6/19/1997	6/19/1997	6/19/1997	6/19/1997	6/19/1997	7/16/1997	7/16/1997	6/18/1997	7/18/1997
PARAMETER										
Volatiles (µg/kg)										
1,1,1,2-Tetrachloroethane	< 267	< 287	< 298	< 285	< 287	< 1220	< 296	< 294	< 281	NA
1,1,1-Trichloroethane	< 139	< 149	< 155	< 148	< 149	< 612	< 154	< 153	< 146	NA
1,1,2,2-Tetrachloroethane	< 139	< 149	< 155	< 148	< 149	< 612	< 154	< 153	< 146	NA
1,1,2-Trichloroethane	< 267	< 287	< 298	< 285	< 287	< 1220	< 296	< 294	< 281	NA
1,1-Dichloroethane	< 139	< 149	< 155	< 148	< 149	< 612	< 154	< 153	< 146	NA
1,1-Dichloroethene	< 267	< 287	< 298	< 285	< 287	< 1220	< 296	< 294	< 281	NA
1,1-Dichloropropene	< 139	< 149	< 155	< 148	< 149	< 612	< 154	< 153	< 146	NA
1,2,3-Trichlorobenzene	< 139	< 149	< 155	< 148	< 149	< 612	< 154	< 153	< 146	NA
1,2,3-Trichloropropane	< 139	< 149	< 155	< 148	< 149	< 612	< 154	< 153	< 146	NA
1,2,4-Trichlorobenzene	< 139	264 J	< 155	< 148	< 149	< 612	< 154	< 153	< 146	NA
1,2,4-Trimethylbenzene	< 139	< 149	< 155	< 148	< 149	< 612	< 154	< 153	< 146	NA
1,2-Dibromo-3-chloropropane	< 267	< 287	< 298	< 285	< 287	< 1220	< 296	< 294	< 281	NA
1,2-Dibromoethane	< 139	< 149	< 155	< 148	< 149	< 612	< 154	< 153	< 146	NA
1,2-Dichlorobenzene	770	55100	442 J	4220	12600 K	30600	4370	3530	< 281	NA
1,2-Dichloroethane	< 267	< 287	< 298	< 285	< 287	< 1220	< 296	< 294	< 281	NA
1,2-Dichloropropane	< 406	< 436	< 453	< 434	< 436	< 1840	< 449	< 447	< 427	NA
1,3,5-Trimethylbenzene	< 139	< 149	< 155	< 148	< 149	< 612	< 154	< 153	< 146	NA
1,3-Dichlorobenzene	< 267	< 287	< 298	< 285	< 287	< 1220	< 296	< 294	< 281	NA
1,3-Dichloropropane	< 139	< 149	< 155	< 148	< 149	< 612	< 154	< 153	< 146	NA
1,4-Dichlorobenzene	< 267	2410	< 298	< 285	333 J	< 1220	< 296	< 294	< 281	NA
2,2-Dichloropropane	< 139	< 149	< 155	< 148	< 149	< 612	< 154	< 153	< 146	NA
2-Butanone	< 941	< 1010	< 1050	< 1000	< 1010	< 4280	< 1040	< 1030	< 990	NA
2-Chloroethyl Vinyl Ether	< 267	< 287	< 298	< 285	< 287	< 1220	< 296	< 294	< 281	NA
2-Chlorotoluene	< 139	< 149	< 155	< 148	< 149	< 612	< 154	< 153	< 146	NA
2-Hexanone	< 406	< 436	< 453	< 434	< 436	< 1840	< 449	< 447	< 427	NA
4-Chlorotoluene	< 139	< 149	< 155	< 148	< 149	< 612	< 154	< 153	< 146	NA
4-Methyl-2-pentanone	< 406	< 436	< 453	< 434	< 436	< 1840	< 449	< 447	< 427	NA
Acetone	< 941	< 1010	< 1050	< 1000	< 1010	< 4280	< 1040	< 1030	< 990	NA
Acrolein	< 2670	< 2870	< 2980	< 2850	< 2870	< 12200	< 2960	< 2940	< 2810	NA
Acrylonitrile	< 1390	< 1490	< 1550	< 1480	< 1490	< 6120	< 1540	< 1530	< 1460	NA
Allyl Chloride	< 139	< 149	< 155	< 148	< 149	< 612	< 154	< 153	< 146	NA
Benzene	< 139	367 J	< 155	< 148	2180 K	7470	461 J	< 153	< 146	NA
Bromobenzene	< 139	< 149	< 155	< 148	< 149	< 612	< 154	< 153	< 146	NA
Bromochloromethane	< 139	< 149	< 155	< 148	< 149	< 612	< 154	< 153	< 146	NA
Bromodichloromethane	< 267	< 287	< 298	< 285	< 287	< 1220	< 296	< 294	< 281	NA
Bromoform	< 139	< 149	< 155	< 148	< 149	< 612	< 154	< 153	< 146	NA
Bromomethane	< 406	< 436	< 453	< 434	< 436	< 1840	< 449	< 447	< 427	NA
Carbon Disulfide	< 406	< 436	< 453	< 434	< 436	< 1840	< 449	< 447	< 427	NA
Carbon Tetrachloride	< 139	< 149	< 155	< 148	< 149	< 612	< 154	< 153	< 146	NA
Chlorobenzene	706	49400	811	8900	161000 K	649000	29600	6700	439 J	NA
Chloroethane	< 406	< 436	< 453	< 434	< 436	< 1840	< 449	< 447	< 427	NA
Chloroform	< 139	< 149	< 155	< 148	< 149	< 612	< 154	< 153	< 146	NA
Chloromethane	< 267	< 287	< 298	< 285	< 287	< 1220	< 296	< 294	< 281	NA
Dibromochloromethane	< 139	< 149	< 155	< 148	< 149	< 612	< 154	< 153	< 146	NA
Dibromomethane	< 139	< 149	< 155	< 148	< 149	< 612	< 154	< 153	< 146	NA
Dichlorodifluoromethane	< 267	< 287	< 298	< 285	< 287	< 1220	< 296	< 294	< 281	NA
Ethyl Methacrylate	< 139	< 149	< 155	< 148	< 149	< 612	< 154	< 153	< 146	NA
Ethylbenzene	< 139	< 149	< 155	< 148	< 149	< 612	< 154	< 153	< 146	NA
Freon 113	< 267	< 287	< 298	< 285	< 287	< 1220	< 296	< 294	< 281	NA
Freon 141b	< 139	< 149	< 155	< 148	< 149	< 612	< 154	< 153	< 146	NA
Hexachlorobutadiene	< 267	< 287	< 298	< 285	< 287	< 1220	< 296	< 294	< 281	NA
Isopropylbenzene	< 406	< 436	< 453	< 434	< 436	< 1840	< 449	< 447	< 427	NA
Methyl Iodide	< 406	< 436	< 453	< 434	< 436	< 1840	< 449	< 447	< 427	NA
Methylene Chloride	< 267	< 287	< 298	< 285	< 287	< 1220	< 296	< 294	< 281	NA

TABLE 4.3-1
Soil Analytical Results for
SWMU Group B: SWMUs 5 and 6

SAMPLE ID	SM005-TB01-0001	SM005-TB01-0305	SM005-TB01-1416	SM005-TB02-0001	SM005-TB02-0305	SM005-TB02-0509	SM005-TB02-1517	SM005-TB02-1820	SM005-TB03-0001	SM005-TB03-0001RS
SAMPLE DEPTH(ft)	0.00-1.00	3.00-5.00	14.00-16.00	0.00-1.00	3.00-5.00	5.00-9.00	15.00-17.00	18.00-20.00	0.00-1.00	0.00-1.00
SAMPLE LOCATION	TB01	TB01	TB01	TB02	TB02	TB02	TB02	TB02	TB03	TB03
SAMPLE DATE	6/19/1997	6/19/1997	6/19/1997	6/19/1997	6/19/1997	6/19/1997	7/16/1997	7/16/1997	6/18/1997	7/18/1997
PARAMETER										
Naphthalene	< 139	< 149	< 155	< 148	< 149	1000 J	< 154	< 153	< 146	NA
Styrene	< 139	< 149	< 155	< 148	< 149	< 612	< 154	< 153	< 146	NA
Tetrachloroethene	< 139	< 149	< 155	< 148	< 149	< 612	< 154	< 153	< 146	NA
Toluene	< 139	712 J	< 155	< 148	1260 K	3670	< 154	< 153	< 146	NA
Trichloroethene	1390	8960	< 155	< 148	< 149	< 612	< 154	< 153	< 146	NA
Trichlorofluoromethane	< 267	< 287	< 298	< 285	< 287	< 1220	< 296	< 294	< 281	NA
Vinyl Acetate	< 406	< 436	< 453	< 434	< 436	< 1840	< 449	< 447	< 427	NA
Vinyl Chloride	< 267	< 287	< 298	< 285	< 287	< 1220	< 296	< 294	< 281	NA
cis-1,2-Dichloroethene	< 267	2300	< 298	< 285	< 287	< 1220	< 296	< 294	< 281	NA
cis-1,3-Dichloropropene	< 139	< 149	< 155	< 148	< 149	< 612	< 154	< 153	< 146	NA
m+p-Xylene	< 139	< 149	< 155	< 148	241 J	796 J	< 154	< 153	< 146	NA
n-Butylbenzene	< 139	< 149	< 155	< 148	< 149	< 612	< 154	< 153	< 146	NA
n-Propylbenzene	< 139	< 149	< 155	< 148	< 149	< 612	< 154	< 153	< 146	NA
o-Xylene	< 139	< 149	< 155	< 148	< 149	< 612	< 154	< 153	< 146	NA
p-Isopropyltoluene	< 139	1490	< 155	< 148	494 J	1350 J	248 J	212 J	< 146	NA
sec-Butylbenzene	< 139	< 149	< 155	< 148	< 149	< 612	< 154	< 153	< 146	NA
tert-Butylbenzene	< 139	< 149	< 155	< 148	< 149	< 612	< 154	< 153	< 146	NA
trans-1,2-Dichloroethene	< 267	< 287	< 298	< 285	< 287	< 1220	< 296	< 294	< 281	NA
trans-1,3-Dichloropropene	< 139	< 149	< 155	< 148	< 149	< 612	< 154	< 153	< 146	NA
trans-1,4-Dichloro-2-butene	< 1390	< 1490	< 1550	< 1480	< 1490	< 6120	< 1540	< 1530	< 1460	NA
Semivolatiles (µg/kg)										
1,2,3-Trichlorobenzene	< 2570	< 2760	< 2860	R	< 27600	R	< 1420	< 1410	NA	< 2650
1,2,4,5-Tetrachlorobenzene	< 2570	< 2760	< 2860	R	< 27600	R	< 1420	< 1410	NA	< 2650
1,2,4-Trichlorobenzene	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
1,2-Dichlorobenzene	7060	110000	3100	2440 J	< 23000	182000 J	66000	4430	NA	< 2210
1,3-Dichlorobenzene	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
1,4-Dichlorobenzene	< 2140	3810	< 2390	R	< 23000	R	4730	< 1180	NA	< 2210
1-Chloronaphthalene	< 5350	< 5740	< 5970	R	< 57400	R	< 2960	< 2940	NA	< 5520
1-Methylnaphthalene	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
1-Naphthylamine	< 7270	< 7810	< 8110	R	< 78100	R	< 4020	< 4000	NA	< 7510
2,3,4,6-Tetrachlorophenol	< 4280	< 4590	< 4770	R	< 45900	R	< 2360	< 2350	NA	< 4420
2,3-Dichloroaniline	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
2,4,5-Trichlorophenol	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
2,4,6-Trichlorophenol	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
2,4-Dichlorophenol	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
2,4-Dimethylphenol	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
2,4-Dinitrophenol	< 13300	< 14200	< 14800	R	< 142000	R	< 7330	< 7290	NA	< 13700
2,4-Dinitrotoluene	< 2140	19100	< 2390	8040 J	< 23000	20900 J	21900	< 1180	NA	< 2210
2,4-Toluenediamine	< 10700 J	< 11500 J	< 11900 J	105000 J	< 115000 J	836000 J	< 5910 J	12500 J	NA	< 11100 J
2,6-Dichlorophenol	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
2,6-Dinitrotoluene	< 2140	94800	< 2390	R	< 23000	R	4210	< 1180	NA	< 2210
2-Chloronaphthalene	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
2-Chlorophenol	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
2-Methylnaphthalene	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
2-Naphthylamine	< 8130	< 8730	< 9070	R	< 87300	R	< 4490	< 4470	NA	< 8400
2-Nitroaniline	< 2570	< 2760	< 2860	R	< 27600	R	< 1420	< 1410	NA	< 2650
2-Nitrodiphenylamine	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
2-Nitrophenol	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
2-Picoline	< 7910	< 8500	< 8830	R	< 85000	R	< 4370	< 4350	NA	< 8180
3,3'-Dichlorobenzidine	< 13100	< 14000	< 14600	R	< 140000	R	< 7210	< 7170	NA	< 13500
3-Methylcholanthrene	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
3-Nitroaniline	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
4,4' Methylenedianiline	< 18800	< 20200	< 21000	65300 J	< 202000	599000 J	< 10400	28600	NA	< 19500
4,6-Dinitro-o-cresol	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
4-Aminobiphenyl	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
4-Aminodiphenylamine	< 5350	< 5740	< 5970	R	< 57400	R	< 2960	< 2940	NA	< 5520
4-Bromophenyl phenyl ether	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210

BLE 4.3-1
Soil Analytical Results for
SWMU Group B: SWMUs 5 and 6

SAMPLE ID	SM005-TB01-0001	SM005-TB01-0305	SM005-TB01-1416	SM005-TB02-0001	SM005-TB02-0305	SM005-TB02-0509	SM005-TB02-1517	SM005-TB02-1820	SM005-TB03-0001	SM005-TB03-0001RS
SAMPLE DEPTH(ft)	0.00-1.00	3.00-5.00	14.00-16.00	0.00-1.00	3.00-5.00	5.00-9.00	15.00-17.00	18.00-20.00	0.00-1.00	0.00-1.00
SAMPLE LOCATION	TB01	TB01	TB01	TB02	TB02	TB02	TB02	TB02	TB03	TB03
SAMPLE DATE	6/19/1997	6/19/1997	6/19/1997	6/19/1997	6/19/1997	6/19/1997	7/16/1997	7/16/1997	6/18/1997	7/18/1997
PARAMETER										
4-Chloro-m-cresol	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
4-Chlorophenylphenyl ether	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
4-Nitroaniline	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
4-Nitrophenol	< 2140 J	< 2300 J	< 2390 J	R	< 23000 J	R	< 1180 J	< 1180 J	NA	< 2210 J
5-Nitro-o-toluidine	< 2140	6380	< 2390	3010 J	< 23000	32300 J	9050	< 1180	NA	< 2210
7,12-dimethylbenz[a]anthracene	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
Acenaphthene	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
Acenaphthylene	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
Acetophenone	< 2780	< 2990	< 3100	R	< 29900	R	< 1540	< 1530	NA	< 2870
Aniline	3060	8930	< 3340	R	< 32200	110000 J	9290	3840	NA	< 3090
Anthracene	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
Azobenzene	< 2570	< 2760	< 2860	R	< 27600	R	< 1420	< 1410	NA	< 2650
Benzidine	< 34200	< 36700	< 38200	R	< 367000	R	< 18900	< 18800	NA	< 35400
Benzo(a)anthracene	< 2780	< 2990	< 3100	R	< 29900	R	< 1540	< 1530	NA	< 2870
Benzo(a)pyrene	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
Benzo(b)fluoranthene	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
Benzo(ghi)perylene	< 2350	< 2530	< 2630	R	< 25300	R	< 1300	< 1290	NA	< 2430
Benzo(k)fluoranthene	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
Benzoic Acid	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
Benzyl Alcohol	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
Benzyl butyl phthalate	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
Bis(2-chloroethoxymethane)	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
Bis(2-chloroethyl)ether	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
Bis(2-chloroisopropyl)ether	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
Bis(2-ethylhexyl) phthalate	< 2570	< 2760	< 2860	R	< 27600	R	< 1420	< 1410	NA	< 2650
Bisphenol A	35300	237000	< 4300	162000 J	645000	480000 J	48900	21300	NA	76700
Carbazole	< 10700	< 11500	< 11900	R	< 115000	R	< 5910	< 5880	NA	< 11100
Chrysene	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
Cyclohexanone	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
Di-n-butyl phthalate	5350 B	18800 B	7210 B	R	< 23000	R	1800 B	< 1180	NA	< 2210
Di-n-octyl phthalate	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
Dibenzo(a,h)anthracene	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
Dibenzofuran	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
Diethyl Phthalate	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
Dimethylphthalate	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
Ethyl Methane Sulfonate	< 3850	< 4130	< 4300	R	< 41300	R	< 2130	< 2120	NA	< 3980
Fluoranthene	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
Fluorene	< 2140 J	< 2300 J	< 2390 J	R	< 23000 J	R	< 1180 J	< 1180 J	NA	< 2210 J
Heptachlor	< 2350	< 2530	< 2630	R	< 25300	R	< 1300	< 1290	NA	< 2430
Hexachlorobenzene	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
Hexachlorobutadiene	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
Hexachlorocyclopentadiene	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
Hexachloroethane	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
Indeno(1,2,3-cd)pyrene	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
Isophorone	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
Methyl methane sulfonate	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
N-Nitrosodibutylamine	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
N-Nitrosodimethylamine	< 2140 J	< 2300 J	< 2390 J	R	< 23000 J	R	< 1180 J	< 1180 J	NA	< 2210 J
N-Nitrosodiphenylamine	< 2780	< 2990	< 3100	R	< 29900	R	< 1540	< 1530	NA	< 2870
N-Nitrosodipropylamine	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
N-Nitrosopiperidine	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
Naphthalene	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
Nitrobenzene	< 2140	8980	< 2390	R	< 23000	40800 J	34300	< 1180	NA	< 2210
Pentachlorobenzene	< 3640	< 3900	< 4060	R	< 39000	R	< 2010	< 2000	NA	< 3760

TABLE 4.3-1
Soil Analytical Results for
SWMU Group B: SWMUs 5 and 6

SAMPLE ID	SM005-TB01-0001	SM005-TB01-0305	SM005-TB01-1416	SM005-TB02-0001	SM005-TB02-0305	SM005-TB02-0509	SM005-TB02-1517	SM005-TB02-1820	SM005-TB03-0001	SM005-TB03-0001RS
SAMPLE DEPTH(ft)	0.00-1.00	3.00-5.00	14.00-16.00	0.00-1.00	3.00-5.00	5.00-9.00	15.00-17.00	18.00-20.00	0.00-1.00	0.00-1.00
SAMPLE LOCATION	TB01	TB01	TB01	TB02	TB02	TB02	TB02	TB02	TB03	TB03
SAMPLE DATE	6/19/1997	6/19/1997	6/19/1997	6/19/1997	6/19/1997	6/19/1997	7/16/1997	7/16/1997	6/18/1997	7/18/1997
PARAMETER										
Pentachloronitrobenzene	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
Pentachlorophenol	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
Phenacetin	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
Phenanthrene	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
Phenol	4090	4270	< 1430	R	< 13800	R	< 710	< 710	NA	< 1330
Pyrene	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
Pyridine	< 2350	< 2530	< 2630	R	< 25300	R	< 1300	< 1290	NA	< 2430
Trimethylphosphate	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
Triphenylphosphate	< 10700	< 11500	< 11900	R	< 115000	R	< 5910	< 5880	NA	< 11100
m,p-Cresol	< 3210	< 3440	< 3580	R	< 34400	R	< 1770	< 1760	NA	< 3310
m-Nitrotoluene	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
m-Toluidine	< 4280	< 4590	< 4770	R	< 45900	R	< 2360	< 2350	NA	< 4420
o,p-Toluidine	< 10900	< 11700	< 12200	R	< 117000	R	< 6030	< 5990	NA	< 11300
o-Cresol	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
o-Nitrotoluene	< 2140	< 2300	< 2390	R	< 23000	R	8220	< 1180	NA	< 2210
p-Chloroaniline	12200 J	53700 J	< 2390 J	42700 J	< 23000 J	159000 J	3490 J	4740 J	NA	< 2210 J
p-Dimethylaminoazobenzene	< 2140	< 2300	< 2390	R	< 23000	R	< 1180	< 1180	NA	< 2210
p-Nitrotoluene	< 3210	< 3440	< 3580	R	< 34400	28300 J	11100	< 1760	NA	< 3310
Metals (µg/kg)										
Antimony	< 428	< 459	< 477	< 457	< 459	< 490	NA	NA	< 450	NA
Cadmium	1300	2180	1170	3750	2570	3590	NA	NA	2540	NA
Chromium	16600	31400	16500	16800	15200	21500	NA	NA	15900	NA
Lead	13900	11500	15700	20700	18700	29600	NA	NA	17200	NA
Nickel	165000	2270000	18100	316000	167000	764000	NA	NA	57100	NA
Miscellaneous (µg/kg)										
Percent Moisture	6.5 %	13 %	16 %	12 %	13 %	18 %	15 %	15 %	11 %	9.5 %
Total Organic Carbon	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BTU from ECD	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ignitability (Flash Point) for S	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Percent Ash	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH in Water (Solid Sample)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
NA=Not analyzed
B=Blank contamination
J=Estimated concentration
K=Estimated concentration (high)
L=Estimated concentration (low)
R=Rejected Data, Additional Data Provided in Appendix G
U=Nondetect at reported limit
<=Nondetect at reported limit

BLE 4.3-1
Soil Analytical Results for
SWMU Group B: SWMUs 5 and 6

SAMPLE ID	SM005-TB03-0305	SM005-TB03-0305RS	SM005-TB03A-1416	SM005-TB04-0001	SM005-TB04-0305	SM005-TB04-0509FD	SM005-TB04-1617	SM005-TB05-0001	SM005-TB05-0305	SM005-TB05-0305FD
SAMPLE DEPTH(ft)	3.00-5.00	3.00-5.00	14.00-16.00	0.00-1.00	3.00-5.00	5.00-9.00	16.00-17.00	0.00-1.00	3.00-5.00	3.00-5.00
SAMPLE LOCATION	TB03	TB03	TB03	TB04	TB04	TB04	TB04	TB05	TB05	TB05
SAMPLE DATE	6/18/1997	7/18/1997	6/19/1997	6/19/1997	6/19/1997	6/19/1997	6/19/1997	6/20/1997	6/20/1997	6/20/1997
PARAMETER										
Volatiles (µg/kg)										
1,1,1,2-Tetrachloroethane	< 293	NA	< 298	< 278	< 1220	< 1220	< 1630	< 276	< 293	< 293
1,1,1-Trichloroethane	< 153	NA	< 155	< 144	< 611	< 612	< 813	< 144	< 152	< 152
1,1,2,2-Tetrachloroethane	< 153	NA	< 155	< 144	< 611	< 612	< 813	< 144	< 152	< 152
1,1,2-Trichloroethane	< 293	NA	< 298	< 278	< 1220	< 1220	< 1630	< 276	< 293	< 293
1,1-Dichloroethane	< 153	NA	< 155	< 144	< 611	< 612	< 813	< 144	< 152	< 152
1,1-Dichloroethene	< 293	NA	< 298	< 278	< 1220	< 1220	< 1630	< 276	< 293	< 293
1,1-Dichloropropene	< 153	NA	< 155	< 144	< 611	< 612	< 813	< 144	< 152	< 152
1,2,3-Trichlorobenzene	< 153	NA	< 155	< 144	< 611	< 612	< 813	< 144	< 152	< 152
1,2,3-Trichloropropane	< 153	NA	< 155	< 144	< 611	< 612	< 813	< 144	< 152	< 152
1,2,4-Trichlorobenzene	< 153	NA	< 155	< 144	< 611	< 612	1060 J	< 144	< 152	< 152
1,2,4-Trimethylbenzene	< 153	NA	< 155	< 144	< 611	< 612	< 813	< 144	< 152	< 152
1,2-Dibromo-3-chloropropane	< 293	NA	< 298	< 278	< 1220	< 1220	< 1630	< 276	< 293	< 293
1,2-Dibromoethane	< 153	NA	< 155	< 144	< 611	< 612	< 813	< 144	< 152	< 152
1,2-Dichlorobenzene	1100	NA	13100	< 278	70800	19600	244000	1660	2110	2220
1,2-Dichloroethane	< 293	NA	< 298	< 278	< 1220	< 1220	< 1630	< 276	< 293	< 293
1,2-Dichloropropane	< 446	NA	< 452	< 422	< 1830	< 1840	< 2440	< 420	< 445	< 445
1,3,5-Trimethylbenzene	< 153	NA	< 155	< 144	< 611	< 612	< 813	< 144	< 152	< 152
1,3-Dichlorobenzene	< 293	NA	< 298	< 278	< 1220	< 1220	< 1630	< 276	< 293	< 293
1,3-Dichloropropane	< 153	NA	< 155	< 144	< 611	< 612	< 813	< 144	< 152	< 152
1,4-Dichlorobenzene	< 293	NA	440 J	< 278	2320 J	< 1220	17900	< 276	< 293	< 293
2,2-Dichloropropane	< 153	NA	< 155	< 144	< 611	< 612	< 813	< 144	< 152	< 152
2-Butanone	< 1030	NA	< 1050	< 978	< 4270	< 4280	< 5690	< 972	< 1030	< 1030
2-Chloroethyl Vinyl Ether	< 293	NA	< 298	< 278	< 1220	< 1220	< 1630	< 276	< 293	< 293
2-Chlorotoluene	< 153	NA	< 155	< 144	< 611	< 612	< 813	< 144	< 152	< 152
2-Hexanone	< 446	NA	< 452	< 422	< 1830	< 1840	< 2440	< 420	< 445	< 445
4-Chlorotoluene	< 153	NA	< 155	< 144	< 611	< 612	< 813	< 144	< 152	< 152
4-Methyl-2-pentanone	< 446	NA	< 452	< 422	< 1830	< 1840	< 2440	< 420	< 445	< 445
Acetone	< 1030	NA	< 1050	< 978	< 4270	< 4280	10600 J	< 972	< 1030	< 1030
Acrolein	< 2930	NA	< 2980	< 2780	< 12200	< 12200	< 16300	< 2760	< 2930	< 2930
Acrylonitrile	< 1530	NA	< 1550	< 1440	< 6110	< 6120	< 8130	< 1440	< 1520	< 1520
Allyl Chloride	< 153	NA	< 155	< 144	< 611	< 612	< 813	< 144	< 152	< 152
Benzene	< 153	NA	< 155	< 144	635 J	5880	3740 J	< 144	< 152	< 152
Bromobenzene	< 153	NA	< 155	< 144	< 611	< 612	< 813	< 144	< 152	< 152
Bromochloromethane	< 153	NA	< 155	< 144	< 611	< 612	< 813	< 144	< 152	< 152
Bromodichloromethane	< 293	NA	< 298	< 278	< 1220	< 1220	< 1630	< 276	< 293	< 293
Bromoform	< 153	NA	< 155	< 144	< 611	< 612	< 813	< 144	< 152	< 152
Bromomethane	< 446	NA	< 452	< 422	< 1830	< 1840	< 2440	< 420	< 445	< 445
Carbon Disulfide	< 446	NA	< 452	< 422	< 1830	< 1840	< 2440	< 420	< 445	< 445
Carbon Tetrachloride	< 153	NA	< 155	< 144	< 611	< 612	< 813	< 144	< 152	< 152
Chlorobenzene	2110	NA	4170	< 144	68400	416000	82900	< 144	1410	1410
Chloroethane	< 446	NA	< 452	< 422	< 1830	< 1840	< 2440	< 420	< 445	< 445
Chloroform	< 153	NA	< 155	< 144	< 611	< 612	< 813	< 144	< 152	< 152
Chloromethane	< 293	NA	< 298	< 278	< 1220	< 1220	< 1630	< 276	< 293	< 293
Dibromochloromethane	< 153	NA	< 155	< 144	< 611	< 612	< 813	< 144	< 152	< 152
Dibromomethane	< 153	NA	< 155	< 144	< 611	< 612	< 813	< 144	< 152	< 152
Dichlorodifluoromethane	< 293	NA	< 298	< 278	< 1220	< 1220	< 1630	< 276	< 293	< 293
Ethyl Methacrylate	< 153	NA	< 155	< 144	< 611	< 612	< 813	< 144	< 152	< 152
Ethylbenzene	< 153	NA	< 155	< 144	< 611	< 612	< 813	< 144	< 152	< 152
Freon 113	< 293	NA	< 298	< 278	1590 J	< 1220	17900	365 J	< 293	925 JB
Freon 141b	< 153	NA	< 155	< 144	< 611	< 612	< 813	< 144	< 152	< 152
Hexachlorobutadiene	< 293	NA	< 298	< 278	< 1220	< 1220	< 1630	< 276	< 293	< 293
Isopropylbenzene	< 446	NA	< 452	< 422	< 1830	< 1840	< 2440	< 420	< 445	< 445
Methyl Iodide	< 446	NA	< 452	< 422	< 1830	< 1840	< 2440	< 420	< 445	< 445
Methylene Chloride	< 293	NA	< 298	< 278	< 1220	< 1220	< 1630	< 276	< 293	< 293

TABLE 4.3-1
Soil Analytical Results for
SWMU Group B: SWMUs 5 and 6

SAMPLE ID	SM005-TB03-0305	SM005-TB03-0305RS	SM005-TB03A-1416	SM005-TB04-0001	SM005-TB04-0305	SM005-TB04-0509FD	SM005-TB04-1617	SM005-TB05-0001	SM005-TB05-0305	SM005-TB05-0305FD
SAMPLE DEPTH(ft)	3.00-5.00	3.00-5.00	14.00-16.00	0.00-1.00	3.00-5.00	5.00-9.00	16.00-17.00	0.00-1.00	3.00-5.00	3.00-5.00
SAMPLE LOCATION	TB03	TB03	TB03	TB04	TB04	TB04	TB04	TB05	TB05	TB05
SAMPLE DATE	6/18/1997	7/18/1997	6/19/1997	6/19/1997	6/19/1997	6/19/1997	6/19/1997	6/20/1997	6/20/1997	6/20/1997
PARAMETER										
Naphthalene	< 153	NA	< 155	< 144	< 611	< 612	< 813	< 144	< 152	< 152
Styrene	< 153	NA	< 155	< 144	< 611	< 612	< 813	< 144	< 152	< 152
Tetrachloroethene	< 153	NA	< 155	< 144	< 611	< 612	< 813	< 144	< 152	< 152
Toluene	< 153	NA	< 155	< 144	2560 J	2450 J	< 813	< 144	< 152	< 152
Trichloroethene	< 153	NA	< 155	< 144	< 611	< 612	< 813	< 144	< 152	< 152
Trichlorofluoromethane	< 293	NA	< 298	< 278	< 1220	< 1220	< 1630	< 276	< 293	< 293
Vinyl Acetate	< 446	NA	< 452	< 422	< 1830	< 1840	< 2440	< 420	< 445	< 445
Vinyl Chloride	< 293	NA	< 298	< 278	< 1220	< 1220	< 1630	< 276	< 293	< 293
cis-1,2-Dichloroethene	< 293	NA	< 298	< 278	< 1220	< 1220	< 1630	< 276	< 293	< 293
cis-1,3-Dichloropropene	< 153	NA	< 155	< 144	< 611	< 612	< 813	< 144	< 152	< 152
m+p-Xylene	< 153	NA	< 155	< 144	< 611	< 612	< 813	< 144	< 152	< 152
n-Butylbenzene	< 153	NA	< 155	< 144	< 611	< 612	< 813	< 144	< 152	< 152
n-Propylbenzene	< 153	NA	< 155	< 144	< 611	< 612	< 813	< 144	< 152	< 152
o-Xylene	< 153	NA	< 155	< 144	< 611	< 612	< 813	< 144	< 152	< 152
p-Isopropyltoluene	< 153	NA	1130	< 144	2080 J	673 J	2110 J	< 144	< 152	< 152
sec-Butylbenzene	< 153	NA	< 155	< 144	< 611	< 612	< 813	< 144	< 152	< 152
tert-Butylbenzene	< 153	NA	< 155	< 144	< 611	< 612	< 813	< 144	< 152	< 152
trans-1,2-Dichloroethene	< 293	NA	< 298	< 278	< 1220	< 1220	< 1630	< 276	< 293	< 293
trans-1,3-Dichloropropene	< 153	NA	< 155	< 144	< 611	< 612	< 813	< 144	< 152	< 152
trans-1,4-Dichloro-2-butene	< 1530	NA	< 1550	< 1440	< 6110	< 6120	< 8130	< 1440	< 1520	< 1520
Semivolatiles (µg/kg)										
1,2,3-Trichlorobenzene	NA	< 1400	< 2860	< 2670	R	< 14700	< 97600	< 2650	< 2810	< 2810
1,2,4,5-Tetrachlorobenzene	NA	< 1400	< 2860	< 2670	R	< 14700	< 97600	< 2650	< 2810	< 2810
1,2,4-Trichlorobenzene	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
1,2-Dichlorobenzene	NA	12400	52100	< 2220	537000 J	132000	870000	< 2210	6440	5430
1,3-Dichlorobenzene	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
1,4-Dichlorobenzene	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
1-Chloronaphthalene	NA	< 2920	< 5950	< 5560	R	< 30600	< 203000	< 5520	< 5850	< 5850
1-Methylnaphthalene	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
1-Naphthylamine	NA	< 3970	< 8100	< 7560	R	< 41600	< 276000	< 7510	< 7960	< 7960
2,3,4,6-Tetrachlorophenol	NA	< 2330	< 4760	< 4440	R	< 24500	< 163000	< 4420	< 4680	< 4680
2,3-Dichloroaniline	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
2,4,5-Trichlorophenol	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
2,4,6-Trichlorophenol	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
2,4-Dichlorophenol	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
2,4-Dimethylphenol	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
2,4-Dinitrophenol	NA	< 7230	< 14800	< 13800	R	< 75900	< 504000	< 13700	< 14500	< 14500
2,4-Dinitrotoluene	NA	1260	< 2380	< 2220	R	22600	< 81300	< 2210	< 2340	< 2340
2,4-Toluenediamine	NA	11200 J	22900 J	< 11100 J	9130000 J	279000 J	19500000 J	< 11100 J	< 11700 J	< 11700 J
2,6-Dichlorophenol	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
2,6-Dinitrotoluene	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
2-Chloronaphthalene	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
2-Chlorophenol	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
2-Methylnaphthalene	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
2-Naphthylamine	NA	< 4430	< 9050	< 8440	R	< 46500	< 309000	< 8390	< 8900	< 8900
2-Nitroaniline	NA	< 1400	< 2860	< 2670	R	< 14700	< 97600	< 2650	< 2810	< 2810
2-Nitrodiphenylamine	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
2-Nitrophenol	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
2-Picoline	NA	< 4320	< 8810	< 8220	R	< 45300	< 301000	< 8170	< 8670	< 8670
3,3'-Dichlorobenzidine	NA	< 7120	< 14500	< 13600	R	< 74700	< 496000	< 13500	< 14300	< 14300
3-Methylcholanthrene	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
3-Nitroaniline	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
4,4' Methylenedianiline	NA	50100	78600	< 19600	R	444000	2070000	< 19400	< 20600	< 20600
4,6-Dinitro-o-cresol	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
4-Aminobiphenyl	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
4-Aminodiphenylamine	NA	< 2920	< 5950	< 5560	R	< 30600	< 203000	< 5520	< 5850	< 5850
4-Bromophenyl phenyl ether	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340

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Soil Analytical Results for
SWMU Group B: SWMUs 5 and 6

SAMPLE ID	SM005-TB03-0305	SM005-TB03-0305RS	SM005-TB03A-1416	SM005-TB04-0001	SM005-TB04-0305	SM005-TB04-0509FD	SM005-TB04-1617	SM005-TB05-0001	SM005-TB05-0305	SM005-TB05-0305FD
SAMPLE DEPTH(ft)	3.00-5.00	3.00-5.00	14.00-16.00	0.00-1.00	3.00-5.00	5.00-9.00	16.00-17.00	0.00-1.00	3.00-5.00	3.00-5.00
SAMPLE LOCATION	TB03	TB03	TB03	TB04	TB04	TB04	TB04	TB05	TB05	TB05
SAMPLE DATE	6/18/1997	7/18/1997	6/19/1997	6/19/1997	6/19/1997	6/19/1997	6/19/1997	6/20/1997	6/20/1997	6/20/1997
PARAMETER										
4-Chloro-m-cresol	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
4-Chlorophenylphenyl ether	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
4-Nitroaniline	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
4-Nitrophenol	NA	< 1170 J	< 2380 J	< 2220 J	R	< 12200 J	< 81300 J	< 2210 J	< 2340 J	< 2340 J
5-Nitro-o-toluidine	NA	< 1170	< 2380	< 2220	R	33200	< 81300	< 2210	< 2340	< 2340
7,12-dimethylbenz[a]anthracene	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
Acenaphthene	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
Acenaphthylene	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
Acetophenone	NA	< 1520	< 3100	< 2890	R	< 15900	< 106000	< 2870	< 3040	< 3040
Aniline	NA	9080	11700	< 3110	557000 J	94500	< 114000	< 3090	< 3280	< 3280
Anthracene	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
Azobenzene	NA	< 1400	< 2860	< 2670	R	< 14700	< 97600	< 2650	< 2810	< 2810
Benzidine	NA	< 18700	< 38100	< 35600	R	< 196000	< 1300000	< 35400	< 37500	< 37500
Benzo(a)anthracene	NA	< 1520	< 3100	< 2890	R	< 15900	< 106000	< 2870	< 3040	< 3040
Benzo(a)pyrene	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
Benzo(b)fluoranthene	NA	< 1170	< 2380	< 2220	R	< 12200	99200	< 2210	< 2340	< 2340
Benzo(ghi)perylene	NA	< 1280	< 2620	< 2440	R	< 13500	< 89400	< 2430	< 2580	< 2580
Benzo(k)fluoranthene	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
Benzoic Acid	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
Benzyl Alcohol	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
Benzyl butyl phthalate	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
Bis(2-chloroethoxymethane)	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
Bis(2-chloroethyl)ether	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
Bis(2-chloroisopropyl)ether	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
Bis(2-ethylhexyl) phthalate	NA	< 1400	< 2860	< 2670	R	< 14700	< 97600	< 2650	< 2810	< 2810
Bisphenol A	NA	94100	255000	< 4000	R	630000	2980000	< 3980	42400	57600
Carbazole	NA	< 5830	< 11900	< 11100	R	< 61200	< 407000	< 11100	< 11700	< 11700
Chrysene	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
Cyclohexanone	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
Di-n-butyl phthalate	NA	2110 B	13700 B	8580 B	R	< 12200	< 81300	3200 B	6630 B	3680 B
Di-n-octyl phthalate	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
Dibenzo(a,h)anthracene	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
Dibenzofuran	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
Diethyl Phthalate	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
Dimethylphthalate	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
Ethyl Methane Sulfonate	NA	< 2100	< 4290	< 4000	R	< 22000	< 146000	< 3980	< 4220	< 4220
Fluoranthene	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
Fluorene	NA	< 1170 J	< 2380 J	< 2220 J	R	< 12200 J	< 81300 J	< 2210 J	< 2340 J	< 2340 J
Heptachlor	NA	< 1280	< 2620	< 2440	R	< 13500	< 89400	< 2430	< 2580	< 2580
Hexachlorobenzene	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
Hexachlorobutadiene	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
Hexachlorocyclopentadiene	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
Hexachloroethane	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
Indeno(1,2,3-cd)pyrene	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
Isophorone	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
Methyl methane sulfonate	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
N-Nitrosodibutylamine	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
N-Nitrosodimethylamine	NA	< 1170 J	< 2380 J	< 2220 J	R	< 12200 J	< 81300 J	< 2210 J	< 2340 J	< 2340 J
N-Nitrosodiphenylamine	NA	< 1520	< 3100	< 2890	R	< 15900	< 106000	< 2870	< 3040	< 3040
N-Nitrosodipropylamine	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
N-Nitrosopiperidine	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
Naphthalene	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
Nitrobenzene	NA	< 1170	< 2380	< 2220	R	49500	< 81300	< 2210	< 2340	< 2340
Pentachlorobenzene	NA	< 1980	< 4050	< 3780	R	< 20800	< 138000	< 3760	< 3980	< 3980

TABLE 4.3-1
Soil Analytical Results for
SWMU Group B: SWMUs 5 and 6

SAMPLE ID	SM005-TB03-0305	SM005-TB03-0305RS	SM005-TB03A-1416	SM005-TB04-0001	SM005-TB04-0305	SM005-TB04-0509FD	SM005-TB04-1617	SM005-TB05-0001	SM005-TB05-0305	SM005-TB05-0305FD
SAMPLE DEPTH(ft)	3.00-5.00	3.00-5.00	14.00-16.00	0.00-1.00	3.00-5.00	5.00-9.00	16.00-17.00	0.00-1.00	3.00-5.00	3.00-5.00
SAMPLE LOCATION	TB03	TB03	TB03	TB04	TB04	TB04	TB04	TB05	TB05	TB05
SAMPLE DATE	6/18/1997	7/18/1997	6/19/1997	6/19/1997	6/19/1997	6/19/1997	6/19/1997	6/20/1997	6/20/1997	6/20/1997
PARAMETER										
Pentachloronitrobenzene	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
Pentachlorophenol	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
Phenacetin	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
Phenanthrene	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
Phenol	NA	900	5380	< 1330	R	< 7340	< 48800	< 1330	< 1410	< 1410
Pyrene	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
Pyridine	NA	< 1280	< 2620	< 2440	R	< 13500	< 89400	< 2430	< 2580	< 2580
Trimethylphosphate	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
Triphenylphosphate	NA	< 5830	< 11900	< 11100	R	< 61200	< 407000	< 11100	< 11700	< 11700
m,p-Cresol	NA	< 1750	< 3570	< 3330	R	< 18400	< 122000	< 3310	< 3510	< 3510
m-Nitrotoluene	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
m-Toluidine	NA	< 2330	< 4760	< 4440	R	< 24500	< 163000	< 4420	< 4680	< 4680
o,p-Toluidine	NA	< 5950	< 12100	< 11300	R	< 62400	< 415000	< 11300	< 11900	< 11900
o-Cresol	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
o-Nitrotoluene	NA	< 1170	< 2380	< 2220	R	14400	< 81300	< 2210	< 2340	< 2340
p-Chloroaniline	NA	8120 J	51400 J	< 2220 J	276000 J	71400 J	132000 J	< 2210 J	< 2340 J	< 2340 J
p-Dimethylaminoazobenzene	NA	< 1170	< 2380	< 2220	R	< 12200	< 81300	< 2210	< 2340	< 2340
p-Nitrotoluene	NA	< 1750	< 3570	< 3330	R	< 18400	< 122000	< 3310	< 3510	< 3510
Metals (µg/kg)										
Antimony	< 469	NA	< 476	< 444	< 488	NA	< 650	< 442	< 468	< 468
Cadmium	660	NA	4640	900	< 490	NA	750	970	1090	1270
Chromium	14800	NA	18900	19300	7880	NA	4470	12900	13400	13400
Lead	10700	NA	19500	9330	< 488	NA	< 650	14400	16000	15700
Nickel	2720	NA	355000	< 440	1070000	NA	10400000	32700	29600	31200
Miscellaneous (µg/kg)										
Percent Moisture	15 %	14 %	16 %	10 %	18 %	NA	39 %	9.5 %	15 %	NA
Total Organic Carbon	NA	NA	NA	NA	NA	NA	NA	NA	4900000 J	NA
BTU from ECD	NA	NA	NA	NA	NA	NA	NA	NA	< 500 BTU	NA
Ignitability (Flash Point) for S	NA	NA	NA	NA	NA	NA	NA	NA	Negative	NA
Percent Ash	NA	NA	NA	NA	NA	NA	NA	NA	69 %	NA
pH in Water (Solid Sample)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
NA=Not analyzed
B=Blank contamination
J=Estimated concentration
K=Estimated concentration (high)
L=Estimated concentration (low)
R=Rejected Data, Additional Data P
U=Nondetect at reported limit
<=Nondetect at reported limit

BLE 4.3-1
Soi ytical Results for
SWMU Group B: SWMUs 5 and 6

SAMPLE ID	SM005-TB05-0709	SM005-TB05-1315	SM005-TB05-2224	SM005-TB05-2830	SM005-TB06-0001	SM005-TB06-0305	SM005-TB06-1012	SM005-TB06-1517	SM005-TB07-0001	SM005-TB07-0305
SAMPLE DEPTH(ft)	7.00-9.00	13.00-15.00	22.00-24.00	28.00-30.00	0.00-1.00	3.00-5.00	10.00-12.00	15.00-17.00	0.00-1.00	3.00-5.00
SAMPLE LOCATION	TB05	TB05	TB05	TB05	TB06	TB06	TB06	TB06	TB07	TB07
SAMPLE DATE	6/20/1997	7/10/1997	7/10/1997	7/10/1997	6/19/1997	6/19/1997	6/19/1997	7/16/1997	7/16/1997	7/16/1997
PARAMETER										
Volatiles (µg/kg)										
1,1,1,2-Tetrachloroethane	< 281	< 295 L	< 291	< 301	< 278	< 301	< 297	< 290	< 276	< 350
1,1,1-Trichloroethane	< 146	< 153 L	< 151	< 157	< 145	< 156	< 155	< 151	< 143	< 182
1,1,2,2-Tetrachloroethane	< 146	< 153 L	< 151	< 157	< 145	< 156	< 155	< 151	< 143	< 182
1,1,2-Trichloroethane	< 281	< 295 L	< 291	< 301	< 278	< 301	< 297	< 290	< 276	< 350
1,1-Dichloroethane	< 146	< 153 L	< 151	< 157	< 145	< 156	< 155	< 151	< 143	< 182
1,1-Dichloroethene	< 281	< 295 L	< 291	< 301	< 278	< 301	< 297	< 290	< 276	< 350
1,1-Dichloropropene	< 146	< 153 L	< 151	< 157	< 145	< 156	< 155	< 151	< 143	< 182
1,2,3-Trichlorobenzene	< 146	< 153 L	< 151	< 157	< 145	< 156	< 155	< 151	< 143	< 182
1,2,3-Trichloropropane	< 146	< 153 L	< 151	< 157	< 145	< 156	< 155	< 151	< 143	< 182
1,2,4-Trichlorobenzene	< 146	< 153 L	< 151	< 157	< 145	< 156	< 155	< 151	< 143	< 182
1,2,4-Trimethylbenzene	< 146	< 153 L	< 151	< 157	< 145	< 156	< 155	< 151	< 143	< 182
1,2-Dibromo-3-chloropropane	< 281	< 295 L	< 291	< 301	< 278	< 301	< 297	< 290	< 276	< 350
1,2-Dibromoethane	< 146	< 153 L	< 151	< 157	< 145	< 156	< 155	< 151	< 143	< 182
1,2-Dichlorobenzene	3040	649 J	9190	386 J	512 J	< 301	< 297	< 290	< 276	< 350
1,2-Dichloroethane	< 281	< 295 L	< 291	< 301	< 278	< 301	< 297	< 290	< 276	< 350
1,2-Dichloropropane	< 427	< 448 L	< 442	< 458	< 423	< 457	< 452	< 441	< 419	< 531
1,3,5-Trimethylbenzene	< 146	< 153 L	< 151	< 157	< 145	< 156	< 155	< 151	< 143	< 182
1,3-Dichlorobenzene	< 281	< 295 L	< 291	< 301	< 278	< 301	< 297	< 290	< 276	< 350
1,3-Dichloropropane	< 146	< 153 L	< 151	< 157	< 145	< 156	< 155	< 151	< 143	< 182
1,4-Dichlorobenzene	< 281	< 295 L	1280	< 301	< 278	< 301	< 297	< 290	< 276	< 350
2,2-Dichloropropane	< 146	< 153 L	< 151	< 157	< 145	< 156	< 155	< 151	< 143	< 182
2-Butanone	< 990	< 1040 L	< 1020	< 1060	< 980	< 1060	< 1050	< 1020	< 970	< 1230
2-Chloroethyl Vinyl Ether	< 281	< 295 L	< 291	< 301	< 278	< 301	< 297	< 290	< 276	< 350
2-Chlorotoluene	< 146	< 153 L	< 151	< 157	< 145	< 156	< 155	< 151	< 143	< 182
2-Hexanone	< 427	< 448 L	< 442	< 458	< 423	< 457	< 452	< 441	< 419	< 531
4-Chlorotoluene	< 146	< 153 L	< 151	< 157	< 145	< 156	< 155	< 151	< 143	< 182
4-Methyl-2-pentanone	< 427	< 448 L	< 442	< 458	< 423	< 457	< 452	< 441	< 419	< 531
Acetone	< 990	< 1040 L	< 1020	< 1060	< 980	< 1060	< 1050	< 1020	< 970	< 1230
Acrolein	< 2810	< 2950 L	< 2910	< 3010	< 2780	< 3010	< 2970	< 2900	< 2760	< 3500
Acrylonitrile	< 1460	< 1530 L	< 1510	< 1570	< 1450	< 1560	< 1550	< 1510	< 1430	< 1820
Allyl Chloride	< 146	< 153 L	< 151	< 157	< 145	< 156	< 155	< 151	< 143	< 182
Benzene	< 146	1120 L	< 151	< 157	< 145	< 156	< 155	< 151	< 143	< 182
Bromobenzene	< 146	< 153 L	< 151	< 157	< 145	< 156	< 155	< 151	< 143	< 182
Bromochloromethane	< 146	< 153 L	< 151	< 157	< 145	< 156	< 155	< 151	< 143	< 182
Bromodichloromethane	< 281	< 295 L	< 291	< 301	< 278	< 301	< 297	< 290	< 276	< 350
Bromoform	< 146	< 153 L	< 151	< 157	< 145	< 156	< 155	< 151	< 143	< 182
Bromomethane	< 427	< 448 L	< 442	< 458	< 423	< 457	< 452	< 441	< 419	< 531
Carbon Disulfide	< 427	< 448 L	< 442	< 458	< 423	< 457	< 452	< 441	< 419	< 531
Carbon Tetrachloride	< 146	< 153 L	< 151	< 157	< 145	< 156	< 155	< 151	< 143	< 182
Chlorobenzene	3260	1050 L	2440	< 157	< 145	< 156	< 155	< 151	< 143	< 182
Chloroethane	< 427	< 448 L	< 442	< 458	< 423	< 457	< 452	< 441	< 419	< 531
Chloroform	< 146	< 153 L	< 151	< 157	< 145	< 156	< 155	< 151	< 143	< 182
Chloromethane	< 281	< 295 L	< 291	< 301	< 278	< 301	< 297	< 290	< 276	< 350
Dibromochloromethane	< 146	< 153 L	< 151	< 157	< 145	< 156	< 155	< 151	< 143	< 182
Dibromomethane	< 146	< 153 L	< 151	< 157	< 145	< 156	< 155	< 151	< 143	< 182
Dichlorodifluoromethane	< 281	< 295 L	< 291	< 301	< 278	< 301	< 297	< 290	< 276	< 350
Ethyl Methacrylate	< 146	< 153 L	< 151	< 157	< 145	< 156	< 155	< 151	< 143	< 182
Ethylbenzene	< 146	< 153 L	< 151	< 157	< 145	< 156	< 155	< 151	< 143	< 182
Freon 113	< 281	566 JB	419 J	< 301	< 278	< 301	< 297	< 290	< 276	< 350
Freon 141b	< 146	< 153 L	< 151	< 157	< 145	< 156	< 155	< 151	< 143	< 182
Hexachlorobutadiene	< 281	< 295 L	< 291	< 301	< 278	< 301	< 297	< 290	< 276	< 350
Isopropylbenzene	< 427	< 448 L	< 442	< 458	< 423	< 457	< 452	< 441	< 419	< 531
Methyl Iodide	< 427	< 448 L	< 442	< 458	< 423	< 457	< 452	< 441	< 419	< 531
Methylene Chloride	< 281	< 295 L	< 291	< 301	< 278	< 301	< 297	< 290	< 276	< 350

TABLE 4.3-1
Soil Analytical Results for
SWMU Group B: SWMUs 5 and 6

SAMPLE ID	SM005-TB05-0709	SM005-TB05-1315	SM005-TB05-2224	SM005-TB05-2830	SM005-TB06-0001	SM005-TB06-0305	SM005-TB06-1012	SM005-TB06-1517	SM005-TB07-0001	SM005-TB07-0305
SAMPLE DEPTH(ft)	7.00-9.00	13.00-15.00	22.00-24.00	28.00-30.00	0.00-1.00	3.00-5.00	10.00-12.00	15.00-17.00	0.00-1.00	3.00-5.00
SAMPLE LOCATION	TB05	TB05	TB05	TB05	TB06	TB06	TB06	TB06	TB07	TB07
SAMPLE DATE	6/20/1997	7/10/1997	7/10/1997	7/10/1997	6/19/1997	6/19/1997	6/19/1997	7/16/1997	7/16/1997	7/16/1997
PARAMETER										
Naphthalene	< 146	< 153 L	453 J	< 157	< 145	< 156	< 155	< 151	< 143	< 182
Styrene	< 146	< 153 L	< 151	< 157	< 145	< 156	< 155	< 151	< 143	< 182
Tetrachloroethene	< 146	< 153 L	< 151	< 157	< 145	< 156	< 155	< 151	< 143	< 182
Toluene	< 146	1890 L	< 151	< 157	< 145	< 156	< 155	< 151	< 143	< 182
Trichloroethene	< 146	< 153 L	< 151	< 157	< 145	< 156	< 155	< 151	< 143	< 182
Trichlorofluoromethane	< 281	< 295 L	< 291	< 301	< 278	< 301	< 297	< 290	< 276	< 350
Vinyl Acetate	< 427	< 448 L	< 442	< 458	< 423	< 457	< 452	< 441	< 419	< 531
Vinyl Chloride	< 281	< 295 L	< 291	< 301	< 278	< 301	< 297	< 290	< 276	< 350
cis-1,2-Dichloroethene	< 281	< 295 L	< 291	< 301	< 278	< 301	< 297	< 290	< 276	< 350
cis-1,3-Dichloropropene	< 146	< 153 L	< 151	< 157	< 145	< 156	< 155	< 151	< 143	< 182
m+p-Xylene	< 146	< 153 L	< 151	< 157	< 145	< 156	< 155	< 151	< 143	< 182
n-Butylbenzene	< 146	< 153 L	< 151	< 157	< 145	< 156	< 155	< 151	< 143	< 182
n-Propylbenzene	< 146	< 153 L	< 151	< 157	< 145	< 156	< 155	< 151	< 143	< 182
o-Xylene	< 146	< 153 L	< 151	< 157	< 145	< 156	< 155	< 151	< 143	< 182
p-Isopropyltoluene	< 146	189 J	< 151	< 157	< 145	< 156	< 155	< 151	< 143	< 182
sec-Butylbenzene	< 146	< 153 L	< 151	< 157	< 145	< 156	< 155	< 151	< 143	< 182
tert-Butylbenzene	< 146	< 153 L	< 151	< 157	< 145	< 156	< 155	< 151	< 143	< 182
trans-1,2-Dichloroethene	< 281	< 295 L	< 291	< 301	< 278	< 301	< 297	< 290	< 276	< 350
trans-1,3-Dichloropropene	< 146	< 153 L	< 151	< 157	< 145	< 156	< 155	< 151	< 143	< 182
trans-1,4-Dichloro-2-butene	< 1460	< 1530 L	< 1510	< 1570	< 1450	< 1560	< 1550	< 1510	< 1430	< 1820
Semivolatiles (µg/kg)										
1,2,3-Trichlorobenzene	< 270	< 248000	< 280	< 290	< 2670	< 2890	< 290	< 280	< 260	< 340
1,2,4,5-Tetrachlorobenzene	< 270	< 248000	< 280	< 290	< 2670	< 2890	< 290	< 280	< 260	< 340
1,2,4-Trichlorobenzene	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
1,2-Dichlorobenzene	2430	< 206000	3420	1080	5770	< 2410	< 240	< 230	< 220	< 280
1,3-Dichlorobenzene	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
1,4-Dichlorobenzene	< 230	< 206000	490	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
1-Chloronaphthalene	< 560	< 517000	< 580	< 600	< 5570	< 6020	< 590	< 580	< 550	< 700
1-Methylnaphthalene	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
1-Naphthylamine	< 760	< 702000	< 790	< 820	< 7570	< 8180	< 810	< 790	< 750	< 950
2,3,4,6-Tetrachlorophenol	< 450	< 413000	< 470	< 480	< 4450	< 4810	< 480	< 460	< 440	< 560
2,3-Dichloroaniline	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
2,4,5-Trichlorophenol	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
2,4,6-Trichlorophenol	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
2,4-Dichlorophenol	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
2,4-Dimethylphenol	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
2,4-Dinitrophenol	< 1390	< 1290000	< 1440	< 1490	< 13800	< 14900	< 1470	< 1440	< 1370	< 1730
2,4-Dinitrotoluene	430	< 206000	< 230	< 240	8440	< 2410	< 240	< 230	< 220	< 280
2,4-Toluenediamine	< 1120 J	73500000 J	< 1160 J	< 1200 J	< 11100 J	< 12000 J	< 1190 J	< 1160 J	< 1100 J	< 1400 J
2,6-Dichlorophenol	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
2,6-Dinitrotoluene	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
2-Chloronaphthalene	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
2-Chlorophenol	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
2-Methylnaphthalene	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
2-Naphthylamine	< 850	< 784000	< 880	< 920	< 8460	< 9150	< 900	< 880	< 840	< 1060
2-Nitroaniline	< 270	< 248000	< 280	< 290	< 2670	< 2890	< 290	< 280	< 260	< 340
2-Nitrodiphenylamine	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
2-Nitrophenol	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
2-Picoline	< 830	< 764000	< 860	< 890	< 8240	< 8900	< 880	< 860	< 820	< 1030
3,3'-Dichlorobenzidine	< 1370	< 1260000	< 1420	< 1470	< 13600	< 14700	< 1450	< 1420	< 1350	< 1710
3-Methylcholanthrene	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
3-Nitroaniline	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
4,4' Methylenedianiline	< 1980	19100000	< 2050	< 2120	< 19600	< 21200	< 2090	< 2040	< 1940	< 2460
4,6-Dinitro-o-cresol	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
4-Aminobiphenyl	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
4-Aminodiphenylamine	< 560	< 517000	< 580	< 600	< 5570	< 6020	< 590	< 580	< 550	< 700
4-Bromophenyl phenyl ether	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280

BLE 4.3-1
Su ytical Results for
SWMU Group B: SWMUs 5 and 6

SAMPLE ID	SM005-TB05-0709	SM005-TB05-1315	SM005-TB05-2224	SM005-TB05-2830	SM005-TB06-0001	SM005-TB06-0305	SM005-TB06-1012	SM005-TB06-1517	SM005-TB07-0001	SM005-TB07-0305
SAMPLE DEPTH(ft)	7.00-9.00	13.00-15.00	22.00-24.00	28.00-30.00	0.00-1.00	3.00-5.00	10.00-12.00	15.00-17.00	0.00-1.00	3.00-5.00
SAMPLE LOCATION	TB05	TB05	TB05	TB05	TB06	TB06	TB06	TB06	TB07	TB07
SAMPLE DATE	6/20/1997	7/10/1997	7/10/1997	7/10/1997	6/19/1997	6/19/1997	6/19/1997	7/16/1997	7/16/1997	7/16/1997
PARAMETER										
4-Chloro-m-cresol	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
4-Chlorophenylphenyl ether	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
4-Nitroaniline	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
4-Nitrophenol	< 230 J	< 206000 J	< 230 J	< 240 J	< 2230 J	< 2410 J	< 240 J	< 230 J	< 220 J	< 280 J
5-Nitro-o-toluidine	480	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
7,12-dimethylbenz[a]anthracene	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
Acenaphthene	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
Acenaphthylene	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
Acetophenone	< 290	< 269000	< 300	< 310	< 2900	< 3130	< 310	< 300	< 290	< 360
Aniline	470	< 289000	< 330	< 340	< 3120	< 3370	< 330	< 320	< 310	< 390
Anthracene	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
Azobenzene	< 270	< 248000	< 280	< 290	< 2670	< 2890	< 290	< 280	< 260	< 340
Benzidine	< 3600	< 3300000	< 3720	< 3860	< 35600	< 38500	< 3810	< 3710	< 3530	< 4480
Benzo(a)anthracene	< 290	< 269000	< 300	< 310	< 2900	< 3130	< 310	< 300	< 290	< 360
Benzo(a)pyrene	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	230	< 280
Benzo(b)fluoranthene	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	450	< 280
Benzo(ghi)perylene	< 250	< 226000	< 260	< 270	< 2450	< 2650	< 260	< 260	< 240	< 310
Benzo(k)fluoranthene	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
Benzoic Acid	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
Benzyl Alcohol	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
Benzyl butyl phthalate	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
Bis(2-chloroethoxymethane)	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
Bis(2-chloroethyl)ether	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
Bis(2-chloroisopropyl)ether	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
Bis(2-ethylhexyl) phthalate	1330 B	< 248000	680 B	1710 B	< 2670	< 2890	930 B	510 B	490 B	550 B
Bisphenol A	540	12600000	630	1070	39000	36100	860	< 420	< 400	10600
Carbazole	< 1120	< 1030000	< 1160	< 1200	< 11100	< 12000	< 1190	< 1160	< 1100	< 1400
Chrysene	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	260	< 280
Cyclohexanone	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
Di-n-butyl phthalate	2590 B	< 206000	790 B	1280 B	2230 B	7510 B	7180 B	740 B	770 B	1590 B
Di-n-octyl phthalate	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
Dibenzo(a,h)anthracene	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
Dibenzofuran	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
Diethyl Phthalate	< 230	< 206000	< 230	< 240	< 2230	< 2410	280	< 230	< 220	< 280
Dimethylphthalate	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
Ethyl Methane Sulfonate	< 400	< 371000	< 420	< 430	< 4010	< 4330	< 430	< 420	< 400	< 500
Fluoranthene	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	510	< 280
Fluorene	< 230 J	< 206000 J	< 230 J	< 240 J	< 2230 J	< 2410 J	< 240 J	< 230 J	< 220 J	< 280 J
Heptachlor	< 250	< 226000	< 260	< 270	< 2450	< 2650	< 260	< 260	< 240	< 310
Hexachlorobenzene	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
Hexachlorobutadiene	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
Hexachlorocyclopentadiene	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
Hexachloroethane	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
Indeno(1,2,3-cd)pyrene	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
Isophorone	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
Methyl methane sulfonate	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
N-Nitrosodibutylamine	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
N-Nitrosodimethylamine	< 230 J	< 206000 J	< 230 J	< 240 J	< 2230 J	< 2410 J	< 240 J	< 230 J	< 220 J	< 280 J
N-Nitrosodiphenylamine	< 290	< 269000	< 300	< 310	< 2900	< 3130	< 310	< 300	< 290	< 360
N-Nitrosodipropylamine	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
N-Nitrosopiperidine	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
Naphthalene	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
Nitrobenzene	2190	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
Pentachlorobenzene	< 380	< 351000	< 400	< 410	< 3790	< 4090	< 400	< 390	< 370	< 480

TABLE 4.3-1
Soil Analytical Results for
SWMU Group B: SWMUs 5 and 6

SAMPLE ID	SM005-TB05-0709	SM005-TB05-1315	SM005-TB05-2224	SM005-TB05-2830	SM005-TB06-0001	SM005-TB06-0305	SM005-TB06-1012	SM005-TB06-1517	SM005-TB07-0001	SM005-TB07-0305
SAMPLE DEPTH(ft)	7.00-9.00	13.00-15.00	22.00-24.00	28.00-30.00	0.00-1.00	3.00-5.00	10.00-12.00	15.00-17.00	0.00-1.00	3.00-5.00
SAMPLE LOCATION	TB05	TB05	TB05	TB05	TB06	TB06	TB06	TB06	TB07	TB07
SAMPLE DATE	6/20/1997	7/10/1997	7/10/1997	7/10/1997	6/19/1997	6/19/1997	6/19/1997	7/16/1997	7/16/1997	7/16/1997
PARAMETER										
Pentachloronitrobenzene	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
Pentachlorophenol	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
Phenacetin	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
Phenanthrene	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	490	< 280
Phenol	260	< 124000	< 140	< 140	< 1340	< 1440	240	< 140	< 130	< 170
Pyrene	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	390	< 280
Pyridine	< 250	< 226000	< 260	< 270	< 2450	< 2650	< 260	< 260	< 240	< 310
Trimethylphosphate	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
Triphenylphosphate	< 1120	< 1030000	< 1160	< 1200	< 11100	< 12000	< 1190	< 1160	< 1100	< 1400
m,p-Cresol	< 340	< 309000	< 350	< 360	< 3340	< 3610	< 360	< 350	< 330	< 420
m-Nitrotoluene	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
m-Toluidine	< 450	< 413000	< 470	< 480	< 4450	< 4810	< 480	< 460	< 440	< 560
o,p-Toluidine	< 1150	< 1050000	< 1190	< 1230	< 11400	< 12300	< 1210	< 1180	< 1120	< 1430
o-Cresol	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
o-Nitrotoluene	310	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
p-Chloroaniline	300 J	320000 J	340 J	< 240 J	< 2230 J	< 2410 J	< 240 J	< 230 J	< 220 J	1520 J
p-Dimethylaminoazobenzene	< 230	< 206000	< 230	< 240	< 2230	< 2410	< 240	< 230	< 220	< 280
p-Nitrotoluene	470	< 309000	< 350	< 360	< 3340	< 3610	370	< 350	< 330	< 420
Metals (µg/kg)										
Antimony	< 450	NA	NA	NA	< 445	< 481	< 476	NA	NA	NA
Cadmium	750	NA	NA	NA	2420	1060	970	NA	NA	NA
Chromium	10300	NA	NA	NA	12800	10900	14100	NA	NA	NA
Lead	11800	NA	NA	NA	18000	17000	17100	NA	NA	NA
Nickel	23500	NA	NA	NA	128000	15400	15400	NA	NA	NA
Miscellaneous (µg/kg)										
Percent Moisture	11 %	15 %	14 %	17 %	10 %	17 %	16 %	14 %	9.3 %	29 %
Total Organic Carbon	NA	NA	2000000	3000000	NA	NA	NA	NA	NA	NA
BTU from ECD	NA	NA	< 500 BTU	NA	NA	NA	NA	NA	NA	NA
Ignitability (Flash Point) for S	NA	NA	Negative	NA	NA	NA	NA	NA	NA	NA
Percent Ash	NA	NA	71 %	NA	NA	NA	NA	NA	NA	NA
pH in Water (Solid Sample)	NA	NA	7.7 std	NA	NA	NA	NA	NA	NA	NA

Notes:
NA=Not analyzed
B=Blank contamination
J=Estimated concentration
K=Estimated concentration (high)
L=Estimated concentration (low)
R=Rejected Data, Additional Data P
U=Nondetect at reported limit
<=Nondetect at reported limit

BLE 4.3-1
Sol ytical Results for
SWMU Group B: SWMUs 5 and 6

SAMPLE ID	SM005-TB08-0001	SM005-TB08-0001RS	SM005-TB08-0305	SM005-TB08-0305RS	SM005-TB08-1113	SM005-TB09-0001	SM005-TB09-0305	SM005-TB09-0709	SM005-TB09-1920	SM005-TB10-0001
SAMPLE DEPTH(ft)	0.00-1.00	0.00-1.00	3.00-5.00	3.00-5.00	11.00-13.00	0.00-1.00	3.00-5.00	7.00-9.00	19.00-20.00	0.00-1.00
SAMPLE LOCATION	TB08	TB08	TB08	TB08	TB08	TB09	TB09	TB09	TB09	TB10
SAMPLE DATE	6/18/1997	7/18/1997	6/18/1997	7/18/1997	6/18/1997	6/19/1997	6/19/1997	6/19/1997	7/16/1997	6/17/1997
PARAMETER										
Volatiles (µg/kg)										
1,1,1,2-Tetrachloroethane	< 286	NA	< 311	NA	< 310	< 296	< 302	< 3000	< 301	< 292 L
1,1,1-Trichloroethane	< 149	NA	< 162	NA	< 161	< 154	< 157	< 1560	< 157	< 152 L
1,1,2,2-Tetrachloroethane	< 149	NA	< 162	NA	< 161	< 154	< 157	< 1560	< 157	< 152 L
1,1,2-Trichloroethane	< 286	NA	< 311	NA	< 310	< 296	< 302	< 3000	< 301	< 292 L
1,1-Dichloroethane	< 149	NA	< 162	NA	< 161	< 154	< 157	< 1560	< 157	< 152 L
1,1-Dichloroethene	< 286	NA	< 311	NA	< 310	< 296	< 302	< 3000	< 301	< 292 L
1,1-Dichloropropene	< 149	NA	< 162	NA	< 161	< 154	< 157	< 1560	< 157	< 152 L
1,2,3-Trichlorobenzene	< 149	NA	< 162	NA	< 161	< 154	< 157	< 1560	< 157	< 152 L
1,2,3-Trichloropropane	< 149	NA	< 162	NA	< 161	< 154	< 157	< 1560	< 157	< 152 L
1,2,4-Trichlorobenzene	< 149	NA	< 162	NA	198 J	< 154	399 J	< 1560	< 157	198 J
1,2,4-Trimethylbenzene	< 149	NA	< 162	NA	< 161	< 154	< 157	< 1560	< 157	< 152 L
1,2-Dibromo-3-chloropropane	< 286	NA	< 311	NA	< 310	< 296	< 302	< 3000	< 301	< 292 L
1,2-Dibromoethane	< 149	NA	< 162	NA	< 161	< 154	< 157	< 1560	< 157	< 152 L
1,2-Dichlorobenzene	< 286	NA	12400	NA	136000	4490	169000 K	204000	10700	152000 L
1,2-Dichloroethane	< 286	NA	< 311	NA	< 310	< 296	< 302	< 3000	< 301	< 292 L
1,2-Dichloropropane	< 435	NA	< 473	NA	< 471	< 449	< 459	< 4560	< 458	< 443 L
1,3,5-Trimethylbenzene	< 149	NA	< 162	NA	< 161	< 154	< 157	< 1560	< 157	< 152 L
1,3-Dichlorobenzene	< 286	NA	< 311	NA	< 310	< 296	< 302	< 3000	< 301	< 292 L
1,3-Dichloropropane	< 149	NA	< 162	NA	< 161	< 154	< 157	< 1560	< 157	< 152 L
1,4-Dichlorobenzene	< 286	NA	< 311	NA	3350	< 296	16900 K	11200	506 J	2450 L
2,2-Dichloropropane	< 149	NA	< 162	NA	< 161	< 154	< 157	< 1560	< 157	< 152 L
2-Butanone	< 1010	NA	< 1090	NA	< 1090	< 1040	< 1060	< 10600	< 1060	< 1030 L
2-Chloroethyl Vinyl Ether	< 286	NA	< 311	NA	< 310	< 296	< 302	< 3000	< 301	< 292 L
2-Chlorotoluene	< 149	NA	< 162	NA	< 161	< 154	2050 K	< 1560	< 157	< 152 L
2-Hexanone	< 435	NA	< 473	NA	< 471	< 449	< 459	< 4560	< 458	< 443 L
4-Chlorotoluene	< 149	NA	< 162	NA	< 161	< 154	1060 K	< 1560	< 157	< 152 L
4-Methyl-2-pentanone	< 435	NA	< 473	NA	< 471	< 449	< 459	< 4560	< 458	< 443 L
Acetone	< 1010	NA	< 1090	NA	< 1090	< 1040	< 1060	< 10600	< 1060	< 1030 L
Acrolein	< 2860	NA	< 3110	NA	< 3100	< 2960	< 3020	< 30000	< 3010	< 2920 L
Acrylonitrile	< 1490	NA	< 1620	NA	< 1610	< 1540	< 1570	< 15600	< 1570	< 1520 L
Allyl Chloride	< 149	NA	< 162	NA	< 161	< 154	< 157	< 1560	< 157	< 152 L
Benzene	< 149	NA	647 J	NA	6820	< 154	906 K	5400 J	< 157	< 152 L
Bromobenzene	< 149	NA	< 162	NA	< 161	< 154	157 J	< 1560	< 157	< 152 L
Bromochloromethane	< 149	NA	< 162	NA	< 161	< 154	< 157	< 1560	< 157	< 152 L
Bromodichloromethane	< 286	NA	< 311	NA	< 310	< 296	< 302	< 3000	< 301	< 292 L
Bromoform	< 149	NA	< 162	NA	< 161	< 154	< 157	< 1560	< 157	< 152 L
Bromomethane	< 435	NA	< 473	NA	< 471	< 449	< 459	< 4560	< 458	< 443 L
Carbon Disulfide	< 435	NA	< 473	NA	< 471	< 449	< 459	< 4560	< 458	< 443 L
Carbon Tetrachloride	< 149	NA	< 162	NA	< 161	< 154	< 157	< 1560	< 157	175 J
Chlorobenzene	< 149	NA	16200	NA	260000	1300	114000 K	216000	5300	5370 L
Chloroethane	< 435	NA	< 473	NA	< 471	< 449	< 459	< 4560	< 458	< 443 L
Chloroform	< 149	NA	< 162	NA	< 161	< 154	< 157	< 1560	< 157	502 J
Chloromethane	< 286	NA	< 311	NA	< 310	< 296	< 302	< 3000	< 301	< 292 L
Dibromochloromethane	< 149	NA	< 162	NA	< 161	< 154	< 157	< 1560	< 157	< 152 L
Dibromomethane	< 149	NA	< 162	NA	< 161	< 154	< 157	< 1560	< 157	< 152 L
Dichlorodifluoromethane	< 286	NA	< 311	NA	< 310	< 296	< 302	< 3000	< 301	< 292 L
Ethyl Methacrylate	< 149	NA	< 162	NA	< 161	< 154	< 157	< 1560	< 157	< 152 L
Ethylbenzene	< 149	NA	< 162	NA	< 161	< 154	< 157	< 1560	< 157	< 152 L
Freon 113	447 J	NA	311 JB	NA	< 310	< 296	< 302	< 3000	361 J	< 292 L
Freon 141b	< 149	NA	< 162	NA	< 161	< 154	< 157	< 1560	< 157	< 152 L
Hexachlorobutadiene	< 286	NA	< 311	NA	< 310	< 296	< 302	< 3000	< 301	< 292 L
Isopropylbenzene	< 435	NA	< 473	NA	< 471	< 449	< 459	< 4560	< 458	< 443 L
Methyl Iodide	< 435	NA	< 473	NA	< 471	< 449	< 459	< 4560	< 458	< 443 L
Methylene Chloride	< 286	NA	< 311	NA	< 310	< 296	< 302	< 3000	< 301	< 292 L

TABLE 4.3-1
Soil Analytical Results for
SWMU Group B: SWMUs 5 and 6

SAMPLE ID	SM005-TB08-0001	SM005-TB08-0001RS	SM005-TB08-0305	SM005-TB08-0305RS	SM005-TB08-1113	SM005-TB09-0001	SM005-TB09-0305	SM005-TB09-0709	SM005-TB09-1920	SM005-TB10-0001
SAMPLE DEPTH(ft)	0.00-1.00	0.00-1.00	3.00-5.00	3.00-5.00	11.00-13.00	0.00-1.00	3.00-5.00	7.00-9.00	19.00-20.00	0.00-1.00
SAMPLE LOCATION	TB08	TB08	TB08	TB08	TB08	TB09	TB09	TB09	TB09	TB10
SAMPLE DATE	6/18/1997	7/18/1997	6/18/1997	7/18/1997	6/18/1997	6/19/1997	6/19/1997	6/19/1997	7/16/1997	6/17/1997
PARAMETER										
Naphthalene	< 149	NA	< 162	NA	< 161	< 154	604 J	< 1560	< 157	< 152 L
Styrene	< 149	NA	< 162	NA	< 161	< 154	< 157	< 1560	< 157	< 152 L
Tetrachloroethene	< 149	NA	< 162	NA	< 161	< 154	< 157	< 1560	< 157	630 J
Toluene	< 149	NA	236 J	NA	4580	< 154	3020 K	7190 J	< 157	163 J
Trichloroethene	< 149	NA	< 162	NA	< 161	< 154	< 157	< 1560	< 157	175 J
Trichlorofluoromethane	< 286	NA	< 311	NA	< 310	< 296	< 302	< 3000	< 301	< 292 L
Vinyl Acetate	< 435	NA	< 473	NA	< 471	< 449	< 459	< 4560	< 458	< 443 L
Vinyl Chloride	< 286	NA	< 311	NA	< 310	< 296	< 302	< 3000	< 301	< 292 L
cis-1,2-Dichloroethene	< 286	NA	< 311	NA	< 310	< 296	< 302	< 3000	< 301	< 292 L
cis-1,3-Dichloropropene	< 149	NA	< 162	NA	< 161	< 154	< 157	< 1560	< 157	< 152 L
m+p-Xylene	< 149	NA	< 162	NA	297 J	< 154	362 J	2760 J	< 157	< 152 L
n-Butylbenzene	< 149	NA	< 162	NA	< 161	< 154	< 157	< 1560	< 157	< 152 L
n-Propylbenzene	< 149	NA	< 162	NA	< 161	< 154	< 157	< 1560	< 157	< 152 L
o-Xylene	< 149	NA	< 162	NA	< 161	< 154	< 157	< 1560	< 157	< 152 L
p-Isopropyltoluene	< 149	NA	274 J	NA	2970	355 J	10900 K	12000	434 J	< 152 L
sec-Butylbenzene	< 149	NA	< 162	NA	< 161	< 154	< 157	< 1560	< 157	< 152 L
tert-Butylbenzene	< 149	NA	< 162	NA	< 161	< 154	< 157	< 1560	< 157	< 152 L
trans-1,2-Dichloroethene	< 286	NA	< 311	NA	< 310	< 296	< 302	< 3000	< 301	< 292 L
trans-1,3-Dichloropropene	< 149	NA	< 162	NA	< 161	< 154	< 157	< 1560	< 157	< 152 L
trans-1,4-Dichloro-2-butene	< 1490	NA	< 1620	NA	< 1610	< 1540	< 1570	< 15600	< 1570	< 1520 L
Semivolatiles (µg/kg)										
1,2,3-Trichlorobenzene	< 2750	NA	NA	< 2840	< 2970	< 2840	< 2900	< 14400	< 2890	R
1,2,4,5-Tetrachlorobenzene	< 2750	NA	NA	< 2840	< 2970	< 2840	< 2900	< 14400	< 2890	R
1,2,4-Trichlorobenzene	< 2290	NA	NA	< 2370	< 2480	< 2360	< 2420	< 12000	< 2410	R
1,2-Dichlorobenzene	< 2290	NA	NA	81000	141000	8650	91800	163000	26300	R
1,3-Dichlorobenzene	< 2290	NA	NA	< 2370	< 2480	< 2360	< 2420	< 12000	< 2410	R
1,4-Dichlorobenzene	< 2290	NA	NA	< 2370	< 2480	< 2360	10900	< 12000	2480	R
1-Chloronaphthalene	< 5730	NA	NA	< 5920	< 6200	< 5910	< 6040	< 30000	< 6020	R
1-Methylnaphthalene	< 2290	NA	NA	< 2370	< 2480	< 2360	< 2420	< 12000	< 2410	R
1-Naphthylamine	< 7790	NA	NA	< 8060	< 8430	< 8040	< 8210	< 40800	< 8190	R
2,3,4,6-Tetrachlorophenol	< 4580	NA	NA	< 4740	R	< 4730	R	< 24000	< 4820	R
2,3-Dichloroaniline	< 2290	NA	NA	< 2370	< 2480	< 2360	< 2420	< 12000	< 2410	R
2,4,5-Trichlorophenol	< 2290	NA	NA	< 2370	R	< 2360	R	< 12000	< 2410	R
2,4,6-Trichlorophenol	< 2290	NA	NA	< 2370	R	< 2360	R	< 12000	< 2410	R
2,4-Dichlorophenol	< 2290	NA	NA	< 2370	R	< 2360	R	< 12000	< 2410	R
2,4-Dimethylphenol	< 2290	NA	NA	< 2370	R	< 2360	R	< 12000	< 2410	R
2,4-Dinitrophenol	< 14200	NA	NA	< 14700	R	< 14700	R	< 74300	< 14900	R
2,4-Dinitrotoluene	< 2290	NA	NA	2820	43400	< 2360	< 2420	36700	< 2410	R
2,4-Toluenediamine	< 11500 J	NA	NA	51700 J	1180000 J	33300 J	1170000 J	1100000 J	60000 J	R
2,6-Dichlorophenol	< 2290	NA	NA	< 2370	R	< 2360	R	< 12000	< 2410	R
2,6-Dinitrotoluene	< 2290	NA	NA	< 2370	7780	< 2360	< 2420	< 12000	< 2410	R
2-Chloronaphthalene	< 2290	NA	NA	< 2370	< 2480	< 2360	< 2420	< 12000	< 2410	R
2-Chlorophenol	< 2290	NA	NA	< 2370	R	< 2360	R	< 12000	< 2410	R
2-Methylnaphthalene	< 2290	NA	NA	< 2370	< 2480	< 2360	< 2420	< 12000	< 2410	R
2-Naphthylamine	< 8710	NA	NA	< 9000	< 9420	< 8980	< 9180	< 45600	< 9160	R
2-Nitroaniline	< 2750	NA	NA	< 2840	< 2970	< 2840	< 2900	< 14400	< 2890	R
2-Nitrodiphenylamine	< 2290	NA	NA	< 2370	< 2480	< 2360	< 2420	< 12000	< 2410	R
2-Nitrophenol	< 2290	NA	NA	< 2370	R	< 2360	R	< 12000	< 2410	R
2-Picoline	< 8480	NA	NA	< 8770	< 9170	< 8750	< 8940	< 44400	< 8920	R
3,3'-Dichlorobenzidine	< 14000	NA	NA	< 14500	< 15100	< 14400	< 14700	< 73100	< 14700	R
3-Methylcholanthrene	< 2290	NA	NA	< 2370	< 2480	< 2360	< 2420	< 12000	< 2410	R
3-Nitroaniline	< 2290	NA	NA	< 2370	< 2480	< 2360	< 2420	< 12000	< 2410	R
4,4' Methylenedianiline	< 20200	NA	NA	< 20900	182000	< 20800	221000	490000	109000	R
4,6-Dinitro-o-cresol	< 2290	NA	NA	< 2370	R	< 2360	R	< 12000	< 2410	R
4-Aminobiphenyl	< 2290	NA	NA	< 2370	< 2480	< 2360	< 2420	< 12000	< 2410	R
4-Aminodiphenylamine	< 5730	NA	NA	< 5920	< 6200	< 5910	< 6040	< 30000	< 6020	R
4-Bromophenyl phenyl ether	< 2290	NA	NA	< 2370	< 2480	< 2360	< 2420	< 12000	< 2410	R

BLE 4.3-1
S ytical Results for
SWMU Group B: SWMUs 5 and 6

SAMPLE ID	SM005-TB08-0001	SM005-TB08-0001RS	SM005-TB08-0305	SM005-TB08-0305RS	SM005-TB08-1113	SM005-TB09-0001	SM005-TB09-0305	SM005-TB09-0709	SM005-TB09-1920	SM005-TB10-0001
SAMPLE DEPTH(ft)	0.00-1.00	0.00-1.00	3.00-5.00	3.00-5.00	11.00-13.00	0.00-1.00	3.00-5.00	7.00-9.00	19.00-20.00	0.00-1.00
SAMPLE LOCATION	TB08	TB08	TB08	TB08	TB08	TB09	TB09	TB09	TB09	TB10
SAMPLE DATE	6/18/1997	7/18/1997	6/18/1997	7/18/1997	6/18/1997	6/19/1997	6/19/1997	6/19/1997	7/16/1997	6/17/1997
PARAMETER										
4-Chloro-m-cresol	< 2290	NA	NA	< 2370	R	< 2360	R	< 12000	< 2410	R
4-Chlorophenylphenyl ether	< 2290	NA	NA	< 2370	< 2480	< 2360	< 2420	< 12000	< 2410	R
4-Nitroaniline	< 2290	NA	NA	< 2370	< 2480	< 2360	< 2420	< 12000	< 2410	R
4-Nitrophenol	< 2290 J	NA	NA	< 2370 J	R	< 2360 J	R	< 12000 J	< 2410 J	R
5-Nitro-o-toluidine	< 2290	NA	NA	< 2370	52800	< 2360	< 2420	24600	< 2410	R
7,12-dimethylbenz[a]anthracene	< 2290	NA	NA	< 2370	< 2480	< 2360	< 2420	< 12000	< 2410	R
Acenaphthene	< 2290	NA	NA	< 2370	< 2480	< 2360	< 2420	< 12000	< 2410	R
Acenaphthylene	< 2290	NA	NA	< 2370	< 2480	< 2360	< 2420	< 12000	< 2410	R
Acetophenone	< 2980	NA	NA	< 3080	< 3220	< 3070	< 3140	< 15600	< 3130	R
Aniline	< 3210	NA	NA	4170	164000	10400	127000	141000	14800	R
Anthracene	< 2290	NA	NA	< 2370	< 2480	< 2360	< 2420	< 12000	< 2410	R
Azobenzene	< 2750	NA	NA	< 2840	< 2970	< 2840	< 2900	< 14400	< 2890	R
Benzidine	< 36700	NA	NA	< 37900	< 39700	< 37800	< 38700	< 192000	< 38600	R
Benzo(a)anthracene	< 2980	NA	NA	< 3080	< 3220	< 3070	< 3140	< 15600	< 3130	R
Benzo(a)pyrene	< 2290	NA	NA	< 2370	< 2480	< 2360	< 2420	< 12000	< 2410	R
Benzo(b)fluoranthene	< 2290	NA	NA	< 2370	< 2480	< 2360	< 2420	< 12000	< 2410	R
Benzo(ghi)perylene	< 2520	NA	NA	< 2610	< 2730	< 2600	< 2660	< 13200	< 2650	R
Benzo(k)fluoranthene	< 2290	NA	NA	< 2370	< 2480	< 2360	< 2420	< 12000	< 2410	R
Benzoic Acid	< 2290	NA	NA	< 2370	R	< 2360	R	< 12000	< 2410	R
Benzyl Alcohol	< 2290	NA	NA	< 2370	R	< 2360	R	< 12000	< 2410	R
Benzyl butyl phthalate	< 2290	NA	NA	< 2370	< 2480	< 2360	< 2420	< 12000	< 2410	R
Bis(2-chloroethoxymethane)	< 2290	NA	NA	< 2370	< 2480	< 2360	< 2420	< 12000	< 2410	R
Bis(2-chloroethyl)ether	< 2290	NA	NA	< 2370	< 2480	< 2360	< 2420	< 12000	< 2410	R
Bis(2-chloroisopropyl)ether	< 2290	NA	NA	< 2370	< 2480	< 2360	< 2420	< 12000	< 2410	R
Bis(2-ethylhexyl) phthalate	< 2750	NA	NA	< 2840	< 2970	< 2840	< 2900	< 14400	< 2890	R
Bisphenol A	34600	NA	NA	155000	226000	63100	129000	775000	40700	R
Carbazole	< 11500	NA	NA	< 11900	< 12400	< 11800	< 12100	< 60000	< 12100	R
Chrysene	< 2290	NA	NA	< 2370	< 2480	< 2360	< 2420	< 12000	< 2410	R
Cyclohexanone	< 2290	NA	NA	< 2370	< 2480	< 2360	< 2420	< 12000	< 2410	R
Di-n-butyl phthalate	7650 B	NA	NA	< 2370	13300 B	7660 B	8790 B	13400 B	< 2410	R
Di-n-octyl phthalate	< 2290	NA	NA	< 2370	< 2480	< 2360	< 2420	< 12000	< 2410	R
Dibenzo(a,h)anthracene	< 2290	NA	NA	< 2370	< 2480	< 2360	< 2420	< 12000	< 2410	R
Dibenzofuran	< 2290	NA	NA	< 2370	< 2480	< 2360	< 2420	< 12000	< 2410	R
Diethyl Phthalate	< 2290	NA	NA	< 2370	< 2480	< 2360	< 2420	< 12000	< 2410	R
Dimethylphthalate	< 2290	NA	NA	< 2370	< 2480	< 2360	< 2420	< 12000	< 2410	R
Ethyl Methane Sulfonate	< 4120	NA	NA	< 4270	< 4460	< 4260	< 4350	< 21600	< 4340	R
Fluoranthene	< 2290	NA	NA	< 2370	< 2480	< 2360	< 2420	< 12000	< 2410	R
Fluorene	< 2290 J	NA	NA	< 2370 J	< 2480 J	< 2360 J	< 2420 J	< 12000 J	< 2410 J	R
Heptachlor	< 2520	NA	NA	< 2610	< 2730	< 2600	< 2660	< 13200	< 2650	R
Hexachlorobenzene	< 2290	NA	NA	< 2370	< 2480	< 2360	< 2420	< 12000	< 2410	R
Hexachlorobutadiene	< 2290	NA	NA	< 2370	< 2480	< 2360	< 2420	< 12000	< 2410	R
Hexachlorocyclopentadiene	< 2290	NA	NA	< 2370	< 2480	< 2360	< 2420	< 12000	< 2410	R
Hexachloroethane	< 2290	NA	NA	< 2370	< 2480	< 2360	< 2420	< 12000	< 2410	R
Indeno(1,2,3-cd)pyrene	< 2290	NA	NA	< 2370	< 2480	< 2360	< 2420	< 12000	< 2410	R
Isophorone	< 2290	NA	NA	< 2370	< 2480	< 2360	< 2420	< 12000	< 2410	R
Methyl methane sulfonate	< 2290	NA	NA	< 2370	< 2480	< 2360	< 2420	< 12000	< 2410	R
N-Nitrosodibutylamine	< 2290	NA	NA	< 2370	< 2480	< 2360	< 2420	< 12000	< 2410	R
N-Nitrosodimethylamine	< 2290 J	NA	NA	< 2370 J	< 2480 J	< 2360 J	< 2420 J	< 12000 J	< 2410 J	R
N-Nitrosodiphenylamine	< 2980	NA	NA	< 3080	< 3220	< 3070	< 3140	< 15600	< 3130	R
N-Nitrosodipropylamine	< 2290	NA	NA	< 2370	< 2480	< 2360	< 2420	< 12000	< 2410	R
N-Nitrosopiperidine	< 2290	NA	NA	< 2370	< 2480	< 2360	< 2420	< 12000	< 2410	R
Naphthalene	< 2290	NA	NA	< 2370	< 2480	< 2360	< 2420	< 12000	< 2410	R
Nitrobenzene	< 2290	NA	NA	< 2370	68400	< 2360	< 2420	107000	< 2410	R
Pentachlorobenzene	< 3890	NA	NA	< 4030	< 4210	< 4020	< 4110	< 20400	< 4100	R

TABLE 4.3-1
Soil Analytical Results for
SWMU Group B: SWMUs 5 and 6

SAMPLE ID	SM005-TB08-0001	SM005-TB08-0001RS	SM005-TB08-0305	SM005-TB08-0305RS	SM005-TB08-1113	SM005-TB09-0001	SM005-TB09-0305	SM005-TB09-0709	SM005-TB09-1920	SM005-TB10-0001
SAMPLE DEPTH(ft)	0.00-1.00	0.00-1.00	3.00-5.00	3.00-5.00	11.00-13.00	0.00-1.00	3.00-5.00	7.00-9.00	19.00-20.00	0.00-1.00
SAMPLE LOCATION	TB08	TB08	TB08	TB08	TB08	TB09	TB09	TB09	TB09	TB10
SAMPLE DATE	6/18/1997	7/18/1997	6/18/1997	7/18/1997	6/18/1997	6/19/1997	6/19/1997	6/19/1997	7/16/1997	6/17/1997
PARAMETER										
Pentachloronitrobenzene	< 2290	NA	NA	< 2370	< 2480	< 2360	< 2420	< 12000	< 2410	R
Pentachlorophenol	< 2290	NA	NA	< 2370	R	< 2360	R	< 12000	< 2410	R
Phenacetin	< 2290	NA	NA	< 2370	< 2480	< 2360	< 2420	< 12000	< 2410	R
Phenanthrene	< 2290	NA	NA	< 2370	< 2480	< 2360	< 2420	< 12000	< 2410	R
Phenol	< 1370	NA	NA	< 1420	27300 J	< 1420	R	< 7190	1590	R
Pyrene	< 2290	NA	NA	< 2370	< 2480	< 2360	< 2420	< 12000	< 2410	R
Pyridine	< 2520	NA	NA	< 2610	< 2730	< 2600	< 2660	< 13200	< 2650	R
Trimethylphosphate	< 2290	NA	NA	< 2370	< 2480	< 2360	< 2420	< 12000	< 2410	R
Triphenylphosphate	< 11500	NA	NA	< 11900	< 12400	< 11800	< 12100	< 60000	< 12100	R
m,p-Cresol	< 3440	NA	NA	< 3550	R	< 3550	R	< 18000	< 3610	R
m-Nitrotoluene	< 2290	NA	NA	< 2370	< 2480	< 2360	< 2420	< 12000	< 2410	R
m-Toluidine	< 4580	NA	NA	< 4740	< 4960	< 4730	< 4830	< 24000	< 4820	R
o,p-Toluidine	< 11700	NA	NA	< 12100	73600	< 12100	< 12300	< 61200	< 12300	R
o-Cresol	< 2290	NA	NA	< 2370	R	< 2360	R	< 12000	< 2410	R
o-Nitrotoluene	< 2290	NA	NA	< 2370	12600	< 2360	< 2420	< 12000	< 2410	R
p-Chloroaniline	< 2290 J	NA	NA	10500 J	119000 J	31700 J	176000 J	207000 J	60000 J	R
p-Dimethylaminoazobenzene	< 2290	NA	NA	< 2370	< 2480	< 2360	< 2420	< 12000	< 2410	R
p-Nitrotoluene	< 3440	NA	NA	< 3550	24000	< 3550	< 3620	28200	< 3610	R
Metals (µg/kg)										
Antimony	< 458	NA	< 498	NA	< 496	< 473	< 483	< 480	NA	< 467
Cadmium	610	NA	< 500	NA	2280	1230	1440	920	NA	< 470
Chromium	14300	NA	< 370	NA	23700	15300	18800	14400	NA	23200
Lead	18400	NA	< 498	NA	41300	24800	319000	8990	NA	15100
Nickel	22400	NA	< 500	NA	123000	111000	451000	667000	NA	107000
Miscellaneous (µg/kg)										
Percent Moisture	13 %	11 %	20 %	16 %	19 %	15 %	17 %	17 %	17 %	14 %
Total Organic Carbon	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BTU from ECD	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ignitability (Flash Point) for S	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Percent Ash	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH in Water (Solid Sample)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
NA=Not analyzed
B=Blank contamination
J=Estimated concentration
K=Estimated concentration (high)
L=Estimated concentration (low)
R=Rejected Data, Additional Data P
U=Nondetect at reported limit
<=Nondetect at reported limit

TABLE 4.3-1
Soil Analytical Results for
SWMU Group B: SWMUs 5 and 6

SAMPLE ID	SM005-TB10-0305	SM005-TB10-0507	SM005-TB10-0911	SM005-TB10-1719	SM005-TB11-0001	SM005-TB11-0001	SM005-TB11-0305	SM005-TB11-0305	SM005-TB12-0001	SM005-TB12-0305
SAMPLE DEPTH(ft)	3.00-5.00	5.00-7.00	9.00-11.00	17.00-19.00	0.00-1.00	0.00-1.00	3.00-5.00	3.00-5.00	0.00-1.00	3.00-5.00
SAMPLE LOCATION	TB10	TB10	TB10	TB10	TB11	TB11	TB11	TB11	TB12	TB12
SAMPLE DATE	6/17/1997	6/17/1997	6/17/1997	7/16/1997	6/19/1997	11/9/1999	6/19/1997	11/9/1999	11/9/1999	11/9/1999
PARAMETER										
Volatiles (µg/kg)										
1,1,1,2-Tetrachloroethane	< 1200	< 293	< 656	< 321	< 276	NA	< 271	NA	<94	<500
1,1,1-Trichloroethane	< 600	< 153	< 328	< 167	< 143	NA	< 141	NA	<190	<1000
1,1,2,2-Tetrachloroethane	< 600	< 153	< 328	< 167	< 143	NA	< 141	NA	<190	<1000
1,1,2-Trichloroethane	< 1200	< 293	< 656	< 321	< 276	NA	< 271	NA	<140	<750
1,1-Dichloroethane	< 600	< 153	< 328	< 167	< 143	NA	< 141	NA	<190	<1000
1,1-Dichloroethene	< 1200	< 293	< 656	< 321	< 276	NA	< 271	NA	<140	<750
1,1-Dichloropropene	< 600	< 153	< 328	< 167	< 143	NA	< 141	NA	<94	<500
1,2,3-Trichlorobenzene	636 J	< 153	< 328	< 167	< 143	NA	< 141	NA	<94	<500
1,2,3-Trichloropropane	< 600	< 153	< 328	< 167	< 143	NA	< 141	NA	<230	<1300
1,2,4-Trichlorobenzene	744 J	< 153	< 328	< 167	< 143	NA	< 141	NA	<140	<750
1,2,4-Trimethylbenzene	< 600	< 153	< 328	< 167	< 143	NA	< 141	NA	<94	<500
1,2-Dibromo-3-chloropropane	< 1200	< 293	< 656	< 321	< 276	NA	< 271	NA	<420	<2300
1,2-Dibromoethane	< 600	< 153	< 328	< 167	< 143	NA	< 141	NA	<190	<100
1,2-Dichlorobenzene	85200	83300 K	59100	11500	353 J	NA	< 271	NA	350	31000
1,2-Dichloroethane	< 1200	< 293	< 656	< 321	< 276	NA	< 271	NA	<47	<250
1,2-Dichloropropane	< 1800	< 446	< 984	< 487	< 419	NA	< 413	NA	<140	<750
1,3,5-Trimethylbenzene	< 600	< 153	< 328	< 167	< 143	NA	< 141	NA	<94	<500
1,3-Dichlorobenzene	< 1200	< 293	< 656	< 321	< 276	NA	< 271	NA	<140	<750
1,3-Dichloropropane	< 600	< 153	< 328	< 167	< 143	NA	< 141	NA	<190	<1000
1,4-Dichlorobenzene	2760 J	3640 K	2230	397 J	< 276	NA	< 271	NA	<94	2200
2,2-Dichloropropane	< 600	< 153	< 328	< 167	< 143	NA	< 141	NA	<230	<1300
2-Butanone	< 4200	< 1030	< 2360	< 1130	< 971	NA	< 955	NA	<560	<3000
2-Chloroethyl Vinyl Ether	< 1200	< 293	< 656	< 321	< 276	NA	< 271	NA	<230	<1300
2-Chlorotoluene	< 600	< 153	< 328	< 167	< 143	NA	< 141	NA	<94	<500
2-Hexanone	< 1800	< 446	< 984	< 487	< 419	NA	< 413	NA	<230	<1300
4-Chlorotoluene	< 600	< 153	< 328	< 167	< 143	NA	< 141	NA	<140	<750
4-Methyl-2-pentanone	< 1800	< 446	< 984	< 487	< 419	NA	< 413	NA	<230	<1300
Acetone	< 4200	< 1030	< 2360	1790 J	< 971	NA	< 955	NA	<1500	<7800
Acrolein	< 12000	< 2930	< 6560	< 3210	< 2760	NA	< 2710	NA	<280	<1500
Acrylonitrile	< 6000	< 1530	< 3280	< 1670	< 1430	NA	< 1410	NA	<230	<1300
Allyl Chloride	< 600	< 153	< 328	< 167	< 143	NA	< 141	NA	NA	NA
Benzene	2160 J	2460 K	2490	359 J	< 143	NA	< 141	NA	<94	1300
Bromobenzene	< 600	< 153	< 328	< 167	< 143	NA	< 141	NA	<140	<750
Bromochloromethane	< 600	< 153	< 328	< 167	< 143	NA	< 141	NA	<140	<750
Bromodichloromethane	< 1200	< 293	< 656	< 321	< 276	NA	< 271	NA	<94	<500
Bromoform	< 600	< 153	< 328	< 167	< 143	NA	< 141	NA	<230	<1300
Bromomethane	< 1800	< 446	< 984	< 487	< 419	NA	< 413	NA	<140	<750
Carbon Disulfide	< 1800	< 446	< 984	< 487	< 419	NA	< 413	NA	<47	<250
Carbon Tetrachloride	< 600	< 153	< 328	< 167	< 143	NA	< 141	NA	<140	<750
Chlorobenzene	732000	141000 K	184000	19200	< 143	NA	< 141	NA	<47	200000
Chloroethane	< 1800	< 446	< 984	< 487	< 419	NA	< 413	NA	<420	<2300
Chloroform	< 600	< 153	< 328	< 167	< 143	NA	< 141	NA	<140	<750
Chloromethane	< 1200	< 293	< 656	< 321	< 276	NA	< 271	NA	<94	<500
Dibromochloromethane	< 600	< 153	< 328	< 167	< 143	NA	< 141	NA	<230	<1300
Dibromomethane	< 600	< 153	< 328	< 167	< 143	NA	< 141	NA	<230	<1300
Dichlorodifluoromethane	< 1200	< 293	< 656	< 321	< 276	NA	< 271	NA	<230	<1300
Ethyl Methacrylate	< 600	< 153	< 328	< 167	< 143	NA	< 141	NA	<140	<7500
Ethylbenzene	864 J	< 153	< 328	< 167	< 143	NA	< 141	NA	<47	<250
Freon 113	< 1200	1070 JB	< 656	987 J	< 276	NA	< 271	NA	NA	NA
Freon 141b	< 600	< 153	< 328	< 167	< 143	NA	< 141	NA	NA	NA
Hexachlorobutadiene	< 1200	< 293	< 656	< 321	< 276	NA	< 271	NA	<230	<1300
Isopropylbenzene	< 1800	< 446	< 984	< 487	< 419	NA	< 413	NA	<47	<250
Methyl Iodide	< 1800	< 446	< 984	< 487	< 419	NA	< 413	NA	<94	<500
Methylene Chloride	< 1200	< 293	< 656	< 321	< 276	NA	< 271	NA	<94	<500

TABLE 4.3-1
Soil Analytical Results for
SWMU Group B: SWMUs 5 and 6

SAMPLE ID	SM005-TB10-0305	SM005-TB10-0507	SM005-TB10-0911	SM005-TB10-1719	SM005-TB11-0001	SM005-TB11-0001	SM005-TB11-0305	SM005-TB11-0305	SM005-TB12-0001	SM005-TB12-0305
SAMPLE DEPTH(ft)	3.00-5.00	5.00-7.00	9.00-11.00	17.00-19.00	0.00-1.00	0.00-1.00	3.00-5.00	3.00-5.00	0.00-1.00	3.00-5.00
SAMPLE LOCATION	TB10	TB10	TB10	TB10	TB11	TB11	TB11	TB11	TB12	TB12
SAMPLE DATE	6/17/1997	6/17/1997	6/17/1997	7/16/1997	6/19/1997	11/9/1999	6/19/1997	11/9/1999	11/9/1999	11/9/1999
PARAMETER										
Naphthalene	972 J	< 153	< 328	410 J	< 143	NA	141 J	NA	<47	<250
Styrene	< 600	< 153	< 328	< 167	< 143	NA	< 141	NA	<140	<75
Tetrachloroethene	< 600	< 153	< 328	< 167	< 143	NA	< 141	NA	<1200	<6300
Toluene	4560	3400 K	1310 J	1540	< 143	NA	< 141	NA	<94	<500
Trichloroethene	5040	153 J	525 J	< 167	< 143	NA	< 141	NA	<190	<1000
Trichlorofluoromethane	< 1200	< 293	< 656	< 321	< 276	NA	< 271	NA	<230	<1300
Vinyl Acetate	< 1800	< 446	< 984	< 487	< 419	NA	< 413	NA	<1100	<6000
Vinyl Chloride	< 1200	< 293	< 656	< 321	< 276	NA	< 271	NA	<140	<750
cis-1,2-Dichloroethene	< 1200	< 293	< 656	< 321	< 276	NA	< 271	NA	<94	<500
cis-1,3-Dichloropropene	< 600	< 153	< 328	< 167	< 143	NA	< 141	NA	<140	<750
m+p-Xylene	3120	552 J	1270 J	641 J	< 143	NA	< 141	NA	<140	<750
n-Butylbenzene	< 600	< 153	< 328	< 167	< 143	NA	< 141	NA	<94	<500
n-Propylbenzene	< 600	< 153	< 328	< 167	< 143	NA	< 141	NA	<94	<500
o-Xylene	1020 J	176 J	381 J	282 J	< 143	NA	< 141	NA	<1400	<750
p-Isopropyltoluene	2040 J	2350 K	1970	756 J	< 143	NA	< 141	NA	<94	840
sec-Butylbenzene	< 600	< 153	< 328	< 167	< 143	NA	< 141	NA	<47	<250
tert-Butylbenzene	< 600	< 153	< 328	< 167	< 143	NA	< 141	NA	<94	<50
trans-1,2-Dichloroethene	< 1200	< 293	< 656	< 321	< 276	NA	< 271	NA	<140	<750
trans-1,3-Dichloropropene	< 600	< 153	< 328	< 167	< 143	NA	< 141	NA	<140	<750
trans-1,4-Dichloro-2-butene	< 6000	< 1530	< 3280	< 1670	< 1430	NA	< 1410	NA	<190	<1000
Semivolatiles (µg/kg)										
1,2,3-Trichlorobenzene	< 14400	< 704000	< 787000	< 3080	R	<110	R	<120	<2900	<1300
1,2,4,5-Tetrachlorobenzene	< 14400	< 704000	< 787000	< 3080	R	<130	R	<130	<3200	<1400
1,2,4-Trichlorobenzene	< 12000	< 587000	< 656000	< 2560	R	<110	R	<120	<2900	<1300
1,2-Dichlorobenzene	97200	126000 J	61800 J	39500	R	130	R	1500	29000	80000
1,3-Dichlorobenzene	< 12000	< 587000	< 656000	< 2560	R	<91	R	<93	<2300	<1000
1,4-Dichlorobenzene	< 12000	< 587000	< 656000	25500	R	<100	R	<100	<2600	4000
1-Chloronaphthalene	< 30000	< 1470000	< 1640000	< 6410	R	<100	R	<100	<2600	<1100
1-Methylnaphthalene	< 12000	< 587000	< 656000	< 2560	R	130	R	200	<2900	<1300
1-Naphthylamine	< 40800	< 2000000	< 2230000	< 8720	R	<880	R	<890	<23000	<9700
2,3,4,6-Tetrachlorophenol	< 24000	< 1170000	< 1310000	< 5130	R	<91	R	<93	<2300	<1000
2,3-Dichloroaniline	< 12000	< 587000	< 656000	< 2560	R	<110	R	<120	<2900	<1300
2,4,5-Trichlorophenol	< 12000	< 587000	< 656000	< 2560	R	<91	R	<93	<2300	<1000
2,4,6-Trichlorophenol	< 12000	< 587000	< 656000	< 2560	R	<110	R	<120	<2900	<1300
2,4-Dichlorophenol	< 12000	< 587000	< 656000	< 2560	R	<130	R	<130	<3200	<1400
2,4-Dimethylphenol	< 12000	< 587000	< 656000	< 2560	R	<130	R	<130	<3200	<1400
2,4-Dinitrophenol	< 74400	< 3640000	< 4070000	< 15900	R	<800	R	<810	<21000	<8800
2,4-Dinitrotoluene	< 12000	12300 J	< 656000	14500	R	<100	R	790	<2600	10000
2,4-Toluenediamine	< 60000 J	230000 J	1280000 J	15600 J	R	<3500	R	<3500	<89000	<38000
2,6-Dichlorophenol	< 12000	< 587000	< 656000	< 2560	R	<130	R	<130	<3200	<1400
2,6-Dinitrotoluene	< 12000	< 587000	< 656000	33100	R	<130	R	320	<3200	3400
2-Chloronaphthalene	< 12000	< 587000	< 656000	< 2560	R	<130	R	<130	<3200	<1400
2-Chlorophenol	< 12000	< 587000	< 656000	< 2560	R	<100	R	<100	<2600	<1100
2-Methylnaphthalene	< 12000	< 587000	< 656000	< 2560	R	160	R	260	<2900	<1300
2-Naphthylamine	< 45600	< 2230000	< 2490000	< 9740	R	<710	R	<720	<18000	<7800
2-Nitroaniline	< 14400	< 704000	< 787000	< 3080	R	<110	R	<120	<2900	<1300
2-Nitrodiphenylamine	< 12000	< 587000	< 656000	< 2560	R	<91	R	<93	<2300	<1000
2-Nitrophenol	< 12000	< 587000	< 656000	< 2560	R	<100	R	<100	<2600	<1100
2-Picoline	< 44400	< 2170000	< 2430000	< 9490	R	<100	R	<100	<2600	<1100
3,3'-Dichlorobenzidine	< 73200	< 3580000	< 4000000	< 15600	R	<270	R	<280	<7000	<3000
3-Methylcholanthrene	< 12000	< 587000	< 656000	< 2560	R	<130	R	<130	<3200	<1400
3-Nitroaniline	< 12000	< 587000	< 656000	< 2560	R	<68	R	<69	<1800	<750
4,4' Methylenedianiline	182000	252000 J	199000 J	80000	R	<1400	R	<1500	<37000	<16000
4,6-Dinitro-o-cresol	< 12000	< 587000	< 656000	< 2560	R	<390	R	<390	<10000	<4300
4-Aminobiphenyl	< 12000	< 587000	< 656000	< 2560	R	<560	R	<570	<14000	<6200
4-Aminodiphenylamine	< 30000	< 1470000	< 1640000	< 6410	R	NA	R	NA	NA	NA
4-Bromophenyl phenyl ether	< 12000	< 587000	< 656000	< 2560	R	<130	R	<130	<3200	<1400

BLE 4.3-1
Sol ytical Results for
SWMU Group B: SWMUs 5 and 6

SAMPLE ID	SM005-TB10-0305	SM005-TB10-0507	SM005-TB10-0911	SM005-TB10-1719	SM005-TB11-0001	SM005-TB11-0001	SM005-TB11-0305	SM005-TB11-0305	SM005-TB12-0001	SM005-TB12-0305
SAMPLE DEPTH(ft)	3.00-5.00	5.00-7.00	9.00-11.00	17.00-19.00	0.00-1.00	0.00-1.00	3.00-5.00	3.00-5.00	0.00-1.00	3.00-5.00
SAMPLE LOCATION	TB10	TB10	TB10	TB10	TB11	TB11	TB11	TB11	TB12	TB12
SAMPLE DATE	6/17/1997	6/17/1997	6/17/1997	7/16/1997	6/19/1997	11/9/1999	6/19/1997	11/9/1999	11/9/1999	11/9/1999
PARAMETER										
4-Chloro-m-cresol	< 12000	< 587000	< 656000	< 2560	R	<150	R	<150	<3800	<1600
4-Chlorophenylphenyl ether	< 12000	< 587000	< 656000	< 2560	R	<110	R	<120	<2900	<1300
4-Nitroaniline	< 12000	< 587000	< 656000	< 2560	R	<91	R	<93	<2300	<1000
4-Nitrophenol	< 12000 J	< 587000 J	< 656000 J	< 2560 J	R	<350	R	<360	<9100	<3900
5-Nitro-o-toluidine	< 12000	65700 J	< 656000	7670	R	<100	R	120	<2600	5900
7,12-dimethylbenz[a]anthracene	< 12000	< 587000	< 656000	< 2560	R	<160	R	<160	<4100	<1800
Acenaphthene	< 12000	< 587000	< 656000	< 2560	R	<130	R	<130	<3200	<1400
Acenaphthylene	< 12000	< 587000	< 656000	< 2560	R	<130	R	<130	<3200	<1400
Acetophenone	< 15600	< 763000	< 853000	< 3330	R	<100	R	<100	<2600	<1100
Aniline	39900	101000 J	63500 J	37700	R	<500	R	<510	<13000	39000
Anthracene	< 12000	< 587000	< 656000	< 2560	R	<100	R	<100	<2600	<1100
Azobenzene	< 14400	< 704000	< 787000	< 3080	R	<130	R	<130	<3200	<1400
Benzidine	< 192000	< 9390000	< 10500000	< 41000	R	<1400	R	<1500	<37000	<16000
Benzo(a)anthracene	< 15600	< 763000	< 853000	< 3330	R	<130	R	<130	<3200	<1400
Benzo(a)pyrene	< 12000	< 587000	< 656000	< 2560	R	<130	R	<130	<3200	<1400
Benzo(b)fluoranthene	< 12000	< 587000	< 656000	< 2560	R	<100	R	<100	<2600	<1100
Benzo(ghi)perylene	< 13200	< 646000	< 722000	< 2820	R	<200	R	<210	<5300	<2300
Benzo(k)fluoranthene	< 12000	< 587000	13400 J	< 2560	R	<140	R	<140	<3500	<1500
Benzoic Acid	< 12000	< 587000	< 656000	< 2560	R	<1300	R	<1300	<32000	<14000
Benzyl Alcohol	< 12000	< 587000	< 656000	< 2560	R	<100	R	<100	<2600	<1100
Benzyl butyl phthalate	< 12000	< 587000	< 656000	< 2560	R	<110	R	<120	<2900	<1300
Bis(2-chloroethoxymethane)	< 12000	< 587000	< 656000	< 2560	R	<110	R	<120	<2900	<1300
Bis(2-chloroethyl)ether	< 12000	< 587000	< 656000	< 2560	R	<100	R	<100	<2600	<1100
Bis(2-chloroisopropyl)ether	< 12000	< 587000	< 656000	< 2560	R	<100	R	<100	<2600	<1100
Bis(2-ethylhexyl) phthalate	< 14400	< 704000	< 787000	< 3080	R	<130	R	<130	<3200	<1400
Bisphenol A	642000	1070000	344000 J	413000	R	<170	R	4800	36000	250000
Carbazole	< 60000	< 2930000	< 3280000	< 12800	R	<80	R	<81	<2100	<880
Chrysene	< 12000	< 587000	< 656000	< 2560	R	<130	R	<130	<3200	<1400
Cyclohexanone	< 12000	< 587000	< 656000	< 2560	R	<57	R	<58	<1500	<6300
Di-n-butyl phthalate	19800 B	< 587000	< 656000	< 2560	13900 J	160B	8660 J	200B	<2600	<1100
Di-n-octyl phthalate	< 12000	< 587000	< 656000	< 2560	R	<140	R	<140	<3500	<1500
Dibenzo(a,h)anthracene	< 12000	< 587000	< 656000	< 2560	R	<150	R	<150	<3800	<1600
Dibenzofuran	< 12000	< 587000	< 656000	< 2560	R	<100	R	<100	<2600	<1100
Diethyl Phthalate	< 12000	< 587000	< 656000	< 2560	R	<100	R	<100	<2600	2500
Dimethylphthalate	< 12000	< 587000	< 656000	< 2560	R	<100	R	<100	<2600	<1100
Ethyl Methane Sulfonate	< 21600	< 1060000	< 1180000	< 4620	R	<91	R	<93	<2300	<100
Fluoranthene	< 12000	< 587000	< 656000	< 2560	R	<110	R	<120	<2900	<1300
Fluorene	< 12000 J	< 587000 J	< 656000 J	< 2560 J	R	<130	R	<130	<3200	<1400
Heptachlor	< 13200	< 646000	< 722000	< 2820	R	<91	R	<93	<2300	<1000
Hexachlorobenzene	< 12000	< 587000	< 656000	< 2560	R	<160	R	<160	<4100	<1800
Hexachlorobutadiene	< 12000	< 587000	< 656000	< 2560	R	<100	R	<100	<2600	<1100
Hexachlorocyclopentadiene	< 12000	< 587000	< 656000	< 2560	R	<1500	R	<1600	<40000	<17000
Hexachloroethane	< 12000	< 587000	< 656000	< 2560	R	<100	R	<100	<2600	<1100
Indeno(1,2,3-cd)pyrene	< 12000	< 587000	< 656000	< 2560	R	<160	R	<160	<4100	<1800
Isophorone	< 12000	< 587000	< 656000	< 2560	R	<140	R	<140	<3500	<1500
Methyl methane sulfonate	< 12000	< 587000	< 656000	< 2560	R	<110	R	<120	<2900	<1300
N-Nitrosodibutylamine	< 12000	< 587000	< 656000	< 2560	R	<140	R	<140	<3500	<1500
N-Nitrosodimethylamine	< 12000 J	< 587000 J	< 656000 J	< 2560 J	R	<100	R	<100	<2600	<1100
N-Nitrosodiphenylamine	< 15600	< 763000	< 853000	6260	R	<320	R	<320	<8200	<3500
N-Nitrosodipropylamine	< 12000	< 587000	< 656000	< 2560	R	<100	R	<100	<2600	<1100
N-Nitrosopiperidine	< 12000	< 587000	< 656000	< 2560	R	<110	R	<120	<2900	<1300
Naphthalene	< 12000	< 587000	< 656000	< 2560	R	140	R	210	<2900	<1300
Nitrobenzene	< 12000	65300 J	< 656000	43300	R	<100	R	290	<2600	12000
Pentachlorobenzene	< 20400	< 998000	< 1120000	< 4360	R	<130	R	<130	<3200	<1400

TABLE 4.3-1
Soil Analytical Results for
SWMU Group B: SWMUs 5 and 6

SAMPLE ID	SM005-TB10-0305	SM005-TB10-0507	SM005-TB10-0911	SM005-TB10-1719	SM005-TB11-0001	SM005-TB11-0001	SM005-TB11-0305	SM005-TB11-0305	SM005-TB12-0001	SM005-TB12-0305
SAMPLE DEPTH(ft)	3.00-5.00	5.00-7.00	9.00-11.00	17.00-19.00	0.00-1.00	0.00-1.00	3.00-5.00	3.00-5.00	0.00-1.00	3.00-5.00
SAMPLE LOCATION	TB10	TB10	TB10	TB10	TB11	TB11	TB11	TB11	TB12	TB12
SAMPLE DATE	6/17/1997	6/17/1997	6/17/1997	7/16/1997	6/19/1997	11/9/1999	6/19/1997	11/9/1999	11/9/1999	11/9/1999
PARAMETER										
Pentachloronitrobenzene	< 12000	< 587000	< 656000	< 2560	R	<80	R	<81	<2100	<880
Pentachlorophenol	< 12000	< 587000	< 656000	< 2560	R	<280	R	<290	<7300	<3100
Phenacetin	< 12000	< 587000	< 656000	< 2560	R	<100	R	<110	<2600	<1100
Phenanthrene	< 12000	< 587000	< 656000	< 2560	R	120	R	190	<2900	<1300
Phenol	< 7200	< 352000	< 394000	4410	R	230	R	870	<2900	2900
Pyrene	< 12000	< 587000	< 656000	< 2560	R	<130	R	<130	<3200	<1400
Pyridine	< 13200	< 646000	< 722000	< 2820	R	<100	R	<100	<2600	<1100
Trimethylphosphate	< 12000	< 587000	< 656000	< 2560	R	<100	R	<100	<2600	<1100
Triphenylphosphate	< 60000	< 2930000	< 3280000	< 12800	R	<150	R	<150	<3800	<1600
m,p-Cresol	< 18000	< 880000	< 984000	< 3850	R	<200	R	<210	<5300	<2300
m-Nitrotoluene	< 12000	< 587000	< 656000	2850	R	<110	R	<120	<2900	<1300
m-Toluidine	< 24000	< 1170000	< 1310000	63600	R	<91	R	<93	<2300	<1000
o,p-Toluidine	< 61200	< 2990000	< 3350000	50500	R	<80	R	<81	<2100	11000
o-Cresol	< 12000	< 587000	< 656000	< 2560	R	<91	R	<93	<2300	<1000
o-Nitrotoluene	< 12000	< 587000	< 656000	12700	R	<130	R	180	<3200	1900
p-Chloroaniline	17200 J	88000 J	35000 J	9670 J	R	<91	R	1600	9500	15000
p-Dimethylaminoazobenzene	< 12000	< 587000	< 656000	< 2560	R	<150	R	<150	<3800	<1600
p-Nitrotoluene	< 18000	18300 J	< 984000	.7440	R	<100	R	150	<2600	3200
Metals (µg/kg)										
Antimony	< 480	< 469	< 525	NA	< 441	NA	< 434	NA	<2.34	5.67
Cadmium	1760	990	2010	NA	< 440	NA	< 430	NA	1.81	4.53
Chromium	22200	17400	16000	NA	14900	NA	16500	NA	13.0	28.8
Lead	30500	20600	16900	NA	15800	NA	12200	NA	34.8	65.7
Nickel	418000	341000	423000	NA	18600	NA	32700	NA	377	258
Miscellaneous (µg/kg)										
Percent Moisture	17 %	15 %	24 %	22 %	9.4 %	12.1%	7.9 %	13.6%	14.7%	20.5%
Total Organic Carbon	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BTU from ECD	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ignitability (Flash Point) for S	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Percent Ash	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH in Water (Solid Sample)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
NA=Not analyzed
B=Blank contamination
J=Estimated concentration
K=Estimated concentration (high)
L=Estimated concentration (low)
R=Rejected Data, Additional Data P
U=Nondetect at reported limit
<=Nondetect at reported limit

BLE 4.3-1
Sa ytical Results for
SWMU Group B: SWMUs 5 and 6

SAMPLE ID	SM005-TB12-0608	SM005-TB12-1820	SM005-TB13-0001	SM005-TB13-0305	SM005-TB13-1012	SM005-TB13-1416	SM005-TB14-0001	SM005-TB14-00010	SM005-TB14-0305	SM005-TB14-0811
SAMPLE DEPTH(ft)	6.00-8.00	18.00-20.00	0.00-1.00	3.00-5.00	10.00-12.00	14.00-16.00	0.00-1.00	0.00-1.00	3.00-5.00	8.00-11.00
SAMPLE LOCATION	TB12	TB12	TB13	TB13	TB13	TB13	TB14	TB14	TB14	TB14
SAMPLE DATE	11/9/1999	11/9/1999	11/9/1999	11/9/1999	11/9/1999	11/9/1999	11/10/1999	11/10/1999	11/10/1999	11/10/1999
PARAMETER										
Volatiles (µg/kg)										
1,1,1,2-Tetrachloroethane	<2500	<2400	<24	<24	<240	<230	<23	<23	<24	<2300
1,1,1-Trichloroethane	<4900	<4700	<47	<48	<470	<470	<45	<46	<48	<4600
1,1,2,2-Tetrachloroethane	<4900	<4700	<47	<48	<470	<470	<45	<46	<48	<4600
1,1,2-Trichloroethane	<3700	<3500	<35	<36	<360	<350	<34	<34	<36	<3500
1,1-Dichloroethane	<4900	<4700	<47	<48	<470	<470	<45	<46	<48	<4600
1,1-Dichloroethene	<3700	<3500	<35	<36	<360	<350	<34	<34	<36	<3500
1,1-Dichloropropene	<2500	<2400	<24	<24	<240	<230	<23	<23	<24	<2300
1,2,3-Trichlorobenzene	<2500	<2400	<24	<24	<240	<230	<23	<23	<24	<2300
1,2,3-Trichloropropane	<6100	<5900	<59	<61	<590	<590	<57	<57	<60	<5800
1,2,4-Trichlorobenzene	<3700	<3500	<35	<36	<360	<350	<34	<34	<36	<3500
1,2,4-Trimethylbenzene	<2500	<2400	<24	<24	<240	<230	<23	<23	<24	<2300
1,2-Dibromo-3-chloropropane	<11000	<11000	<110	<110	<1100	<1100	<100	<100	<110	<10000
1,2-Dibromoethane	<4900	<4700	<47	<48	<470	<470	<45	<46	<48	<4600
1,2-Dichlorobenzene	160000	52000	47	<24	34000	25000	<23	47	<24	110000
1,2-Dichloroethane	<1200	<1200	<12	<12	<120	<120	<11	<110	<12	<1200
1,2-Dichloropropane	<3700	<3500	<35	<36	<360	<350	<34	<34	<36	<3500
1,3,5-Trimethylbenzene	<2500	<2400	<24	<24	<240	<230	<23	<23	<24	<2300
1,3-Dichlorobenzene	<3700	<3500	<35	<36	<360	<350	<34	<34	<36	<3500
1,3-Dichloropropane	<4900	<4700	<47	<48	<470	<470	<45	<46	<48	<4600
1,4-Dichlorobenzene	6500	<2400	<24	<24	770	930	<23	<23	<24	12000
2,2-Dichloropropane	<6100	<5900	<59	<61	<590	<590	<57	<57	<60	<5800
2-Butanone	<15000	<14000	<140	<140	<1400	<1400	<140	<140	<140	<14000
2-Chloroethyl Vinyl Ether	<6100	<5900	<59	<61	<590	<590	<57	<57	<60	<5800
2-Chlorotoluene	<2500	<2400	<24	<24	24	<230	<23	<23	<24	<2300
2-Hexanone	<6100	<5900	<59	<61	<590	<590	<57	<57	<60	<5800
4-Chlorotoluene	<3700	<3500	<35	<36	<360	<350	<34	<34	<36	<3500
4-Methyl-2-pentanone	<6100	<5900	<59	<60	<590	<590	<57	<57	<60	<5800
Acetone	<38000	<36000	<360	<380	<3700	<3600	<350	<350	<370	<36000
Acrolein	<7400	<7100	<71	<73	<710	<700	<68	<69	<72	<7000
Acrylonitrile	<6100	<5900	<59	<61	<590	<590	<57	<57	<60	<5800
Allyl Chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	5900	<2400	<24	<24	<240	290	<23	<23	<24	<2300
Bromobenzene	<3700	<3500	<35	<36	<360	<350	<34	<34	<36	<3500
Bromochloromethane	<3700	<3500	<35	<36	<360	<350	<34	<34	<36	<3500
Bromodichloromethane	<2500	<2400	<24	<24	<240	<230	<23	<23	<24	<2300
Bromoform	<6100	<5900	<59	<61	<590	<590	<57	<57	<60	<5800
Bromomethane	<3700	<3500	<35	<36	<360	<350	<34	<34	<36	<3500
Carbon Disulfide	<1200	<1200	<12	<12	<120	<120	<11	<11	<12	<1200
Carbon Tetrachloride	<3700	<3500	<35	<36	<360	<350	<34	<34	<36	<3500
Chlorobenzene	330000	230000	29	<12	21000	22000	18	45	<12	92000
Chloroethane	<1100	<1100	<110	<110	<1100	<1100	<100	<100	<110	<10000
Chloroform	<3700	<3500	<35	<36	<360	<350	<34	<34	<36	<3500
Chloromethane	<2500	<2400	<24	<24	<240	<230	<23	<23	<24	<2300
Dibromochloromethane	<6100	<5900	<59	<61	<590	<590	<57	<57	<60	<5800
Dibromomethane	<6100	<5900	<59	<61	<590	<590	<57	<57	<60	<5800
Dichlorodifluoromethane	<6100	<5900	<59	<61	<590	<590	<57	<57	<60	<5800
Ethyl Methacrylate	<3700	<3500	<35	<36	<360	<350	<34	<34	<36	<3500
Ethylbenzene	<1200	3100	46	<12	<120	<120	<11	<11	<12	<1200
Freon 113	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Freon 141b	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	<6100	<5900	<59	<61	<590	<590	<57	<57	<60	<5800
Isopropylbenzene	<1200	<1200	<12	<12	<120	<120	<11	<11	<12	<1200
Methyl Iodide	<2500	<2400	<24	<24	<240	<230	<23	<23	<24	<2300
Methylene Chloride	<2500	<2400	<24	<24	<240	<230	<23	<23	<24	<2300

TABLE 4.3-1
Soil Analytical Results for
SWMU Group B: SWMUs 5 and 6

SAMPLE ID	SM005-TB12-0608	SM005-TB12-1820	SM005-TB13-0001	SM005-TB13-0305	SM005-TB13-1012	SM005-TB13-1416	SM005-TB14-0001	SM005-TB14-00010	SM005-TB14-0305	SM005-TB14-0811
SAMPLE DEPTH(ft)	6.00-8.00	18.00-20.00	0.00-1.00	3.00-5.00	10.00-12.00	14.00-16.00	0.00-1.00	0.00-1.00	3.00-5.00	8.00-11.00
SAMPLE LOCATION	TB12	TB12	TB13	TB13	TB13	TB13	TB14	TB14	TB14	TB14
SAMPLE DATE	11/9/1999	11/9/1999	11/9/1999	11/9/1999	11/9/1999	11/9/1999	11/10/1999	11/10/1999	11/10/1999	11/10/1999
PARAMETER										
Naphthalene	<1200	<1200	<12	<12	<120	<120	<11	<11	<12	<1200
Styrene	<3700	<3500	<35	<36	<360	<350	<34	<34	<36	<3500
Tetrachloroethene	<31000	<29000	<290	<300	<3000	<2900	<280	<29	<300	<29000
Toluene	<2500	6100	110	<24	<2400	<230	<23	<23	<24	<2300
Trichloroethene	<4900	<4700	<47	<48	<470	<470	<45	<46	<48	<4600
Trichlorofluoromethane	<6100	<5900	<59	<61	<590	<590	<57	<57	<60	<5800
Vinyl Acetate	<29000	<28000	<280	<290	<2800	<2800	<270	<270	<290	<28000
Vinyl Chloride	<3700	<3500	<35	<36	<3600	<350	<34	<34	<36	<3500
cis-1,2-Dichloroethene	<2500	<2400	<24	<24	<240	<230	<23	<23	<24	<2300
cis-1,3-Dichloropropene	<3700	<3500	<35	<36	<360	<350	<34	<34	<36	<3500
m+p-Xylene	<3700	11000	200	<36	<360	<350	<34	<34	<36	<3500
n-Butylbenzene	<2500	<2400	<24	<24	<240	<230	<23	<23	<24	<2300
n-Propylbenzene	<2500	<2400	<1200	<24	<240	<230	<23	<23	<24	<2300
o-Xylene	<3700	<3500	72	<36	<360	<350	<34	<34	<36	<3500
p-Isopropyltoluene	3100	4900	<24	<24	<240	<230	<23	<23	<24	16000
sec-Butylbenzene	<1200	<1200	<12	<12	<120	<120	<11	<11	<12	<1200
tert-Butylbenzene	<2500	<2400	<24	<24	<240	<230	<23	<23	<24	<2300
trans-1,2-Dichloroethene	<3700	<3500	<35	<36	<360	<350	<34	<34	<36	<3500
trans-1,3-Dichloropropene	<3700	<3500	<35	<36	<360	<350	<34	<34	<36	<3500
trans-1,4-Dichloro-2-butene	<4900	<4700	<47	<48	<470	<470	<45	<46	<48	<4600
Semivolatiles (µg/kg)										
1,2,3-Trichlorobenzene	<1200	<120	<120	<120	<120	<29000	<110	<110	<120	<1200
1,2,4,5-Tetrachlorobenzene	<1400	<130	<130	<130	<130	<32000	<120	<130	<130	<1300
1,2,4-Trichlorobenzene	<1200	<120	<120	<120	<120	<29000	<110	<110	<120	<1200
1,2-Dichlorobenzene	35000	3900	650	310	82000	1000000	320	1800	3000	72000
1,3-Dichlorobenzene	<980	<94	<94	<95	<950	<23000	<91	<91	<95	<930
1,4-Dichlorobenzene	1400	130	<110	<110	2100	38000	<100	<100	150	9400
1-Chloronaphthalene	<1100	<110	<110	<110	<110	<26000	<100	<100	<110	<1000
1-Methylnaphthalene	<1200	<120	<120	<120	<1200	<29000	<110	<110	190	<1200
1-Naphthylamine	<9500	<910	<910	<920	<9100	<230000	<87	<880	<920	<8900
2,3,4,6-Tetrachlorophenol	<980	<94	<94	<95	<950	<23000	<91	<91	<95	<930
2,3-Dichloroaniline	<1200	<120	<120	<120	<1200	<29000	<110	<110	<120	<1200
2,4,5-Trichlorophenol	<980	<130	<94	<95	<950	<23000	<91	<91	<95	<930
2,4,6-Trichlorophenol	<1200	<130	<120	<120	<1200	<29000	<110	<110	<120	<1200
2,4-Dichlorophenol	<1400	<820	<130	<130	<1300	<32000	<120	<130	<130	<1300
2,4-Dimethylphenol	<1400	<130	<130	<130	<1300	<32000	<120	<130	<130	<1300
2,4-Dinitrophenol	<8600	<820	<820	<830	<8300	<210000	<790	<800	<830	<8100
2,4-Dinitrotoluene	1900	140	210	<110	<1100	<26000	1800	1200	680	1500
2,4-Toluenediamine	9200UJ	<3600	<3600	<3600	<36000	800000UJ	29000J	<3500	2200UJ	11000UJ
2,6-Dichlorophenol	<1400	<130	<130	<130	<1300	<32000	<120	<1300	<130	<1300
2,6-Dinitrotoluene	<1400	<130	<130	<130	<1300	<32000	440	300	180	<1300
2-Chloronaphthalene	<1400	<130	<130	<130	<1300	<32000	<120	<130	<130	<1300
2-Chlorophenol	<1100	<110	<110	<110	<1100	<26000	<100	<100	<110	<1000
2-Methylnaphthalene	<1200	<120	<120	<120	<1200	<29000	<110	<110	250	<1200
2-Naphthylamine	<7600	<730	<730	<740	<7300	<180000	<700	<710	<740	<7200
2-Nitroaniline	<1200	<120	<120	<120	<1200	<29000	<110	<110	<120	<1200
2-Nitrodiphenylamine	<980	<94	<94	<95	<950	<23000	<91	<91	<95	<930
2-Nitrophenol	<1100	<110	<110	<110	<1100	<26000	<100	<100	<110	<1000
2-Picoline	<1100	<110	<110	<110	<1100	<26000	<100	<100	<110	<1000
3,3'-Dichlorobenzidine	<2900	<280	<280	<290	<2800	<70000	<270	<270	<290	<2800
3-Methylcholanthrene	<1400	<130	<130	<130	<1300	<32000	20	<130	<130	<1300
3-Nitroaniline	<740	<71	<71	<72	<710	<18000	<68	<69	<72	<7000
4,4' Methylenedianiline	<16000	<1500	<1500	<1500	<15000	940000	<1400	<1500	23000	29000
4,6-Dinitro-o-cresol	<4200	<400	<400	<410	<4000	<100000	<390	<390	<410	<3900
4-Aminobiphenyl	<6000	<580	<580	<580	<5800	<140000	<560	<60	<580	<5700
4-Aminodiphenylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	<1400	<130	<130	<130	<1300	<32000	<120	<130	<130	<1300

BLE 4.3-1
So[illegible]lytical Results for
SWMU Group B: SWMUs 5 and 6

SAMPLE ID	SM005-TB12-0608	SM005-TB12-1820	SM005-TB13-0001	SM005-TB13-0305	SM005-TB13-1012	SM005-TB13-1416	SM005-TB14-0001	SM005-TB14-00010	SM005-TB14-0305	SM005-TB14-0811
SAMPLE DEPTH(ft)	6.00-8.00	18.00-20.00	0.00-1.00	3.00-5.00	10.00-12.00	14.00-16.00	0.00-1.00	0.00-1.00	3.00-5.00	8.00-11.00
SAMPLE LOCATION	TB12	TB12	TB13	TB13	TB13	TB13	TB14	TB14	TB14	TB14
SAMPLE DATE	11/9/1999	11/9/1999	11/9/1999	11/9/1999	11/9/1999	11/9/1999	11/10/1999	11/10/1999	11/10/1999	11/10/1999
PARAMETER										
4-Chloro-m-cresol	<1600	<150	<150	<150	<1500	<38000	<150	50	<150	<1500
4-Chlorophenylphenyl ether	<1200	<120	<120	<120	<1200	<29000	<110	<110	<120	<1200
4-Nitroaniline	<980	<94	<94	<95	<950	<23000	<91	<91	<95	<930
4-Nitrophenol	<3800	<360	<360	<370	<3700	<91000	<350	<350	<370	<3600
5-Nitro-o-toluidine	2600	<110	<110	<110	<1100	<26000	<100	<100	250	<1000
7,12-dimethylbenz[a]anthracene	<1700	<160	<160	<170	<1700	<41000	<160	<160	<170	<1600
Acenaphthene	<1400	<130	<130	<130	<1300	<32000	<120	<130	190	<1300
Acenaphthylene	<1400	<130	<130	<130	<1300	<32000	<120	<130	<130	<1300
Acetophenone	<1100	<110	<110	<110	<1100	<26000	<100	<100	<110	<1000
Aniline	42000	640	<520	<520	<5200	240000	<500	<500	1300	7500
Anthracene	<1100	<110	<110	<110	<1100	<26000	<100	<100	<110	<1000
Azobenzene	<1400	<130	<130	<130	<1300	<32000	<120	<130	<130	<1300
Benzidine	<16000	<1500	<1500	<1500	<15000	<370000	<1400	<1500	<1500	<15000
Benzo(a)anthracene	<1400	<130	<130	<130	<1300	<32000	<120	<130	<130	<1300
Benzo(a)pyrene	<1400	<130	<130	<130	<1300	<35000	<120	<130	<130	<1300
Benzo(b)fluoranthene	<1100	<110	<110	<110	<1100	<32000	220	<100	<110	<1000
Benzo(ghi)perylene	<2200	<210	<210	<210	<2100	<53000	<200	<210	<210	<2100
Benzo(k)fluoranthene	<1500	<140	<140	<140	<1400	<35000	510	<140	<140	<1400
Benzoic Acid	<14000	<1300	<1300	<1300	<13000	<320000	<1200	<1300	<1300	<13000
Benzyl Alcohol	<1100	<110	<110	<110	<1100	<26000	<100	<100	<110	<1000
Benzyl butyl phthalate	<1200	<120	<120	<120	<1200	<29000	<110	<110	<120	<1200
Bis(2-chloroethoxymethane)	<1200	<120	<120	<120	<1200	<29000	<110	<110	<120	<1200
Bis(2-chloroethyl)ether	<1100	<110	<110	<110	<1100	<26000	<100	<100	<110	<1000
Bis(2-chloroisopropyl)ether	<1100	<110	<110	<110	<1100	<26000	<100	<100	<110	<1000
Bis(2-ethylhexyl) phthalate	<1400	<130	<130	<130	<1300	<32000	160	<130	<130	3200
Bisphenol A	7400	480	1500	200	30000	2300000	12000	6000	7900	21000
Carbazole	<8600	<82	<82	<83	<830	<21000	<79	<80	<83	<810
Chrysene	<1400	<130	<130	<130	<1300	<32000	<120	<130	<130	<1300
Cyclohexanone	<6100	<59	<59	<60	<590	<15000	<570	<57	<60	1300
Di-n-butyl phthalate	<1100	150B	290B	220B	<1100	<26000	200B	170B	120B	<1000
Di-n-octyl phthalate	<1500	<140	<140	<140	<1400	<35000	<140	<140	<140	<1400
Dibenzo(a,h)anthracene	<1600	<150	<150	<150	<1500	<38000	<150	<150	<150	<1500
Dibenzofuran	<1100	<110	<110	<110	<1100	<26000	<100	<100	150	<1000
Diethyl Phthalate	2800	<110	<110	<110	1800	41000	<100	120	<110	<1000
Dimethylphthalate	<1100	<110	<110	<110	<1100	<26000	<100	<100	<110	<1000
Ethyl Methane Sulfonate	<980	<94	<94	<95	<950	<23000	<91	<91	<95	<930
Fluoranthene	<1200	<120	<120	<120	<1200	<29000	<110	<110	140	<1200
Fluorene	<1400	<130	<130	<130	<1300	<32000	<120	<130	<130	<1300
Heptachlor	<980	<94	<94	<95	<950	<23000	<91	<91	<95	<93
Hexachlorobenzene	<1700	<160	<160	<170	<1700	<41000	<160	<160	<170	<1600
Hexachlorobutadiene	<1100	<110	<110	<110	<1100	<26000	<100	<100	<110	<1000
Hexachlorocyclopentadiene	<17000	<1600	<1600	<1600	<16000	<4000000	<1500	<1500	<1600	<16000
Hexachloroethane	<1100	<110	<110	<110	<1100	<26000	<100	<100	<110	<1000
Indeno(1,2,3-cd)pyrene	<1700	<160	<160	<170	<1700	<41000	<160	<160	<170	<1600
Isophorone	<1500	<140	<140	<140	<1400	<35000	<140	<140	<140	<1400
Methyl methane sulfonate	<1200	<120	<120	<120	<1200	<29000	<110	<110	<120	<1200
N-Nitrosodibutylamine	NA	<140	<140	<140	<1400	<35000	<140	<140	<140	<1400
N-Nitrosodimethylamine	<1100	<110	<110	<110	<1100	<26000	<100	<100	<110	<1000
N-Nitrosodiphenylamine	<3400	<330	<330	<330	<3300	<82000	<320	<320	<330	<3200
N-Nitrosodipropylamine	<1100	<110	<110	<110	<1100	<26000	<100	<100	<110	<1000
N-Nitrosopiperidine	<1200	<120	<120	<120	<1200	<29000	<110	<110	<120	<1200
Naphthalene	<1200	<120	<120	<120	<1200	<29000	<110	<110	<120	<1200
Nitrobenzene	6100	540	<11	<110	<1100	<26000	280	230	170	<1000
Pentachlorobenzene	<1400	<130	<130	<130	<1300	<32000	<120	<130	<130	<1300

TABLE 4.3-1
Soil Analytical Results for
SWMU Group B: SWMUs 5 and 6

SAMPLE ID	SM005-TB12-0608	SM005-TB12-1820	SM005-TB13-0001	SM005-TB13-0305	SM005-TB13-1012	SM005-TB13-1416	SM005-TB14-0001	SM005-TB14-00010	SM005-TB14-0305	SM005-TB14-0811
SAMPLE DEPTH(ft)	6.00-8.00	18.00-20.00	0.00-1.00	3.00-5.00	10.00-12.00	14.00-16.00	0.00-1.00	0.00-1.00	3.00-5.00	8.00-11.00
SAMPLE LOCATION	TB12	TB12	TB13	TB13	TB13	TB13	TB14	TB14	TB14	TB14
SAMPLE DATE	11/9/1999	11/9/1999	11/9/1999	11/9/1999	11/9/1999	11/9/1999	11/10/1999	11/10/1999	11/10/1999	11/10/1999
PARAMETER										
Pentachloronitrobenzene	<860	<82	<82	<83	<830	<21000	<79	<80	<83	<810
Pentachlorophenol	<3100	<290	<290	<300	<3000	<73000	<280	<290	<300	<2900
Phenacetin	<1100	<110	<110	<110	<1100	<26000	<100	<100	<110	<1000
Phenanthrene	<1200	<120	<120	<120	<1200	<29000	<110	<110	240	<1200
Phenol	1600	130	<120	<120	<1200	<29000	120	170	<120	<1200
Pyrene	<1100	<130	<130	<130	<1300	<32000	<120	<130	<130	<1300
Pyridine	<1100	2900	<110	<110	<1100	<26000	<100	<100	<110	<1000
Trimethylphosphate	<1100	<110	<110	<110	<1100	<26000	<100	<100	<110	<1000
Triphenylphosphate	<1600	<150	<150	<150	<1500	<38000	<150	<150	<150	<1500
m,p-Cresol	<2200	<210	<210	<210	<2100	<53000	<200	<210	<210	<2100
m-Nitrotoluene	<1200	<120	<120	<120	<1200	1200000	<110	<110	<120	<1200
m-Toluidine	<980	<94	<94	<95	<950	<23000	<91	<91	<95	<930
o,p-Toluidine	8000	<82	<82	<83	<830	<21000	83	<80	180	<810
o-Cresol	<980	<94	<94	<95	<950	<23000	<91	<91	<95	<930
o-Nitrotoluene	<1400	<130	<130	<130	<1300	<32000	180	<130	<130	<1300
p-Chloroaniline	74000	190	1400	980	9500	360000	610	2000	1600	25000
p-Dimethylaminoazobenzene	<1600	<150	<150	<150	<1500	<38000	<150	<150	<150	<1500
p-Nitrotoluene	1600	<110	<110	<110	<1100	<26000	120	<100	120	<1000
Metals (µg/kg)										
Antimony	<2.46	<2.35	2.61	3.41	2.54	3.08	<2.27	2.66	2.81	<2.32
Cadmium	1.01	<0.588	0.694	0.727	1.04	1.85	<0.567	<0.571	1.57	0.824
Chromium	11.1	5.79	10.1	7.76	8.67	6.73	4.95	6.80	14.2	6.14
Lead	28.3	13.5	20.2	18.6	19.3	20.4	15.1	14.7	48.7	16.6
Nickel	208	9.25	26.8	17.5	55.7	380	13.8	24.7	41.2	211
Miscellaneous (µg/kg)										
Percent Moisture	18.6%	15.0%	15.0%	16.1%	15.5%	14.7%	11.8%	12.5%	16.1%	13.8%
Total Organic Carbon	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BTU from ECD	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ignitability (Flash Point) for S	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Percent Ash	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH in Water (Solid Sample)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
NA=Not analyzed
B=Blank contamination
J=Estimated concentration
K=Estimated concentration (high)
L=Estimated concentration (low)
R=Rejected Data, Additional Data P
U=Nondetect at reported limit
<=Nondetect at reported limit

TABLE 4.3-1
Soil Analytical Results for
SWMU Group B: SWMUs 5 and 6

SAMPLE ID	SM005-TB14-1516	SM005-TB15-0001	SM005-TB15-0305	SM005-TB15-1415	SM006-TB01-0001	SM006-TB01-0305	SM006-TB01-0709	SM006-TB01-1113	SM006-TB01-2123	SM006-TB02-0001
SAMPLE DEPTH(ft)	15.00-16.00	0.00-1.00	3.00-5.00	14.00-15.00	0.00-1.00	3.00-5.00	7.00-9.00	11.00-13.00	21.00-23.00	0.00-1.00
SAMPLE LOCATION	TB14	TB15	TB15	TB15	TB01	TB01	TB01	TB01	TB01	TB02
SAMPLE DATE	11/10/1999	11/10/1999	11/10/1999	11/10/1999	6/17/1997	6/17/1997	6/17/1997	6/17/1997	6/17/1997	6/17/1997
PARAMETER										
Volatiles (µg/kg)										
1,1,1,2-Tetrachloroethane	<230	<23	<23	<2300	< 277	< 297	< 300	< 304	< 303	< 280
1,1,1-Trichloroethane	<470	<46	<45	<4600	< 144	< 154	< 156	< 158	< 158	< 146
1,1,2,2-Tetrachloroethane	<470	<46	<45	<4600	< 144	< 154	< 156	< 158	< 158	< 146
1,1,2-Trichloroethane	<350	<34	<34	<3500	< 277	< 297	< 300	< 304	< 303	< 280
1,1-Dichloroethane	<470	<46	<45	<4600	< 144	< 154	< 156	< 158	< 158	< 146
1,1-Dichloroethene	<350	<34	<34	<3500	< 277	< 297	< 300	< 304	< 303	< 280
1,1-Dichloropropene	<230	<23	<23	<2300	< 144	< 154	< 156	< 158	< 158	< 146
1,2,3-Trichlorobenzene	<230	<23	<23	<2300	< 144	< 154	< 156	< 158	< 158	< 146
1,2,3-Trichloropropane	<580	<57	<57	<5800	< 144	< 154	< 156	< 158	< 158	< 146
1,2,4-Trichlorobenzene	<350	<34	<34	<3500	< 144	< 154	< 156	< 158	< 158	< 146
1,2,4-Trimethylbenzene	<230	<23	<23	<2300	< 144	< 154	< 156	< 158	< 158	< 146
1,2-Dibromo-3-chloropropane	<1000	<100	<100	<10000	< 277	< 297	< 300	< 304	< 303	< 280
1,2-Dibromoethane	<470	<46	<45	<4600	< 144	< 154	< 156	< 158	< 158	< 146
1,2-Dichlorobenzene	900	630	330	390000	2100	< 297	8170	7290	461 J	527 J
1,2-Dichloroethane	<120	<110	<34	<1200	< 277	< 297	< 300	< 304	< 303	< 280
1,2-Dichloropropane	<350	<34	<34	<3500	< 421	< 451	< 456	< 462	< 461	< 426
1,3,5-Trimethylbenzene	<230	<23	<23	<2300	< 144	< 154	< 156	< 158	< 158	< 146
1,3-Dichlorobenzene	<350	<34	<34	<3500	< 277	< 297	< 300	< 304	< 303	< 280
1,3-Dichloropropane	<350	<46	<45	<4600	< 144	< 154	< 156	< 158	< 158	< 146
1,4-Dichlorobenzene	<230	41	63	16000	< 277	< 297	793	474 J	< 303	< 280
2,2-Dichloropropane	<580	<57	<57	<5800	< 144	< 154	< 156	< 158	< 158	< 146
2-Butanone	<1400	<140	<140	<14000	< 974	< 1040	< 1060	< 1070	< 1070	< 987
2-Chloroethyl Vinyl Ether	<580	<57	<57	<5800	< 277	< 297	< 300	< 304	< 303	< 280
2-Chlorotoluene	<230	<23	<23	<2300	< 144	< 154	< 156	< 158	< 158	< 146
2-Hexanone	<580	<57	<57	<5800	< 421	< 451	< 456	< 462	< 461	< 426
4-Chlorotoluene	<350	<34	<34	<3500	< 144	< 154	< 156	< 158	< 158	< 146
4-Methyl-2-pentanone	<580	<57	<57	<5800	< 421	< 451	< 456	< 462	< 461	< 426
Acetone	<3600	<350	<350	<36000	< 974	< 1040	< 1060	< 1070	< 1070	< 987
Acrolein	<700	<68	<68	<7000	< 2770	< 2970	< 3000	< 3040	< 3030	< 2800
Acrylonitrile	<580	<57	<57	<5800	< 1440	< 1540	< 1560	< 1580	< 1580	< 1460
Allyl Chloride	NA	NA	NA	NA	< 144	< 154	< 156	< 158	< 158	< 146
Benzene	<230	<23	<23	4400	< 144	< 154	< 156	365 J	< 158	< 146
Bromobenzene	<350	<34	<34	<3500	< 144	< 154	< 156	< 158	< 158	< 146
Bromochloromethane	<350	<34	<34	<3500	< 144	< 154	< 156	< 158	< 158	< 146
Bromodichloromethane	<230	<23	<23	<2300	< 277	< 297	< 300	< 304	< 303	< 280
Bromoform	<580	<57	<57	<5800	< 144	< 154	< 156	< 158	< 158	< 146
Bromomethane	<350	<34	<34	<3500	< 421	< 451	< 456	< 462	< 461	< 426
Carbon Disulfide	<120	<11	<11	<1200	< 421	< 451	< 456	< 462	< 461	< 426
Carbon Tetrachloride	<350	<34	<34	<3500	< 144	< 154	< 156	< 158	< 158	< 146
Chlorobenzene	2500	170	150	40000	1880	< 154	11000	45000	1040	< 146
Chloroethane	<100	<100	<100	<10000	< 421	< 451	< 456	< 462	< 461	< 426
Chloroform	<350	<34	<34	<3500	< 144	< 154	< 156	< 158	< 158	< 146
Chloromethane	<230	<23	<23	<2300	< 277	< 297	< 300	< 304	< 303	< 280
Dibromochloromethane	<580	<57	<57	<5800	< 144	< 154	< 156	< 158	< 158	< 146
Dibromomethane	<580	<57	<57	<5800	< 144	< 154	< 156	< 158	< 158	< 146
Dichlorodifluoromethane	<580	<57	<57	<5800	< 277	< 297	< 300	< 304	< 303	< 280
Ethyl Methacrylate	<350	<34	<34	<3500	< 144	< 154	< 156	< 158	< 158	< 146
Ethylbenzene	<120	<11	<11	<1200	< 144	< 154	< 156	< 158	< 158	< 146
Freon 113	NA	NA	NA	NA	996 JB	961 JB	1060 JB	< 304	715 JB	< 280
Freon 141b	NA	NA	NA	NA	< 144	< 154	< 156	< 158	< 158	< 146
Hexachlorobutadiene	<580	<57	<57	<5800	< 277	< 297	< 300	< 304	< 303	< 280
Isopropylbenzene	<120	<11	<11	<1200	< 421	< 451	< 456	< 462	< 461	< 426
Methyl Iodide	<230	<23	<23	<2300	< 421	< 451	< 456	< 462	< 461	< 426
Methylene Chloride	<230	<23	<23	<2300	< 277	< 297	< 300	< 304	< 303	< 280

TABLE 4.3-1
Soil Analytical Results for
SWMU Group B: SWMUs 5 and 6

SAMPLE ID	SM005-TB14-1516	SM005-TB15-0001	SM005-TB15-0305	SM005-TB15-1415	SM006-TB01-0001	SM006-TB01-0305	SM006-TB01-0709	SM006-TB01-1113	SM006-TB01-2123	SM006-TB02-0001
SAMPLE DEPTH(ft)	15.00-16.00	0.00-1.00	3.00-5.00	14.00-15.00	0.00-1.00	3.00-5.00	7.00-9.00	11.00-13.00	21.00-23.00	0.00-1.00
SAMPLE LOCATION	TB14	TB15	TB15	TB15	TB01	TB01	TB01	TB01	TB01	TB02
SAMPLE DATE	11/10/1999	11/10/1999	11/10/1999	11/10/1999	6/17/1997	6/17/1997	6/17/1997	6/17/1997	6/17/1997	6/17/1997
PARAMETER										
Naphthalene	<230	<11	<11	<1200	< 144	< 154	< 156	< 158	< 158	< 146
Styrene	<350	<34	<34	<3500	< 144	< 154	< 156	< 158	< 158	< 146
Tetrachloroethene	<2900	<280	<280	<29000	< 144	< 154	< 156	< 158	< 158	< 146
Toluene	<230	<23	<23	11000	< 144	< 154	< 156	170 J	< 158	< 146
Trichloroethene	<470	<46	<45	<4600	< 144	< 154	< 156	< 158	< 158	< 146
Trichlorofluoromethane	<580	<57	<57	<5800	< 277	< 297	< 300	< 304	< 303	< 280
Vinyl Acetate	<2800	<270	<270	<28000	< 421	< 451	< 456	< 462	< 461	< 426
Vinyl Chloride	<350	<34	<34	<3500	< 277	< 297	< 300	< 304	< 303	< 280
cis-1,2-Dichloroethene	<230	<23	<23	<2300	< 277	< 297	< 300	< 304	< 303	< 280
cis-1,3-Dichloropropene	<350	<34	<34	<3500	< 144	< 154	< 156	< 158	< 158	< 146
m+p-Xylene	<350	<34	<34	<3500	< 144	< 154	< 156	316 J	< 158	< 146
n-Butylbenzene	<230	<23	<23	<2300	< 144	< 154	< 156	< 158	< 158	< 146
n-Propylbenzene	<230	<23	<23	<2300	< 144	< 154	< 156	< 158	< 158	< 146
o-Xylene	<350	<34	<34	<3500	< 144	< 154	< 156	< 158	< 158	< 146
p-Isopropyltoluene	<230	<23	24	<2300	< 144	< 154	564 J	595 J	< 158	< 146
sec-Butylbenzene	<120	<11	<11	<1200	< 144	< 154	< 156	< 158	< 158	< 146
tert-Butylbenzene	<230	<23	<23	<2300	< 144	< 154	< 156	< 158	< 158	< 146
trans-1,2-Dichloroethene	<350	<34	<34	<3500	< 277	< 297	< 300	< 304	< 303	< 280
trans-1,3-Dichloropropene	<350	<34	<34	<3500	< 144	< 154	< 156	< 158	< 158	< 146
trans-1,4-Dichloro-2-butene	<470	<46	<45	<4600	< 1440	< 1540	< 1560	< 1580	< 1580	< 1460
Semivolatiles (µg/kg)										
1,2,3-Trichlorobenzene	<230	<2800	<110	<29000	R	< 280	< 2880	R	< 290	R
1,2,4,5-Tetrachlorobenzene	<260	<3100	<120	<32000	R	< 280	< 2880	R	< 290	R
1,2,4-Trichlorobenzene	<230	<2800	<110	<29000	R	< 240	< 2400	R	< 240	R
1,2-Dichlorobenzene	770	47000	4900	2400000	660 J	4790	12100	6780 J	< 240	R
1,3-Dichlorobenzene	<190	<2300	<91	<23000	R	< 240	< 2400	R	< 240	R
1,4-Dichlorobenzene	<210	2600	400	130000	R	< 240	5140	460 J	< 240	R
1-Chloronaphthalene	<210	<2600	<100	<26000	R	< 590	< 6000	R	< 610	R
1-Methylnaphthalene	<230	<2800	<110	<29000	R	< 240	< 2400	R	< 240	R
1-Naphthylamine	<1800	<22000	<880	<220000	R	< 810	< 8170	R	< 820	R
2,3,4,6-Tetrachlorophenol	<190	<2300	91	<23000	R	< 470	< 4800	R	< 480	R
2,3-Dichloroaniline	<230	<2800	<110	<29000	R	< 240	< 2400	R	< 240	R
2,4,5-Trichlorophenol	<190	<2300	<91	<23000	R	< 240	< 2400	R	< 240	R
2,4,6-Trichlorophenol	<230	<2800	<110	<29000	R	< 240	< 2400	R	< 240	R
2,4-Dichlorophenol	<260	<3100	<120	<32000	R	< 240	< 2400	R	< 240	R
2,4-Dimethylphenol	<260	<3100	<120	<32000	R	< 240	7640	R	< 240	R
2,4-Dinitrophenol	<1600	<20000	<800	<200000	R	< 1470	< 14900	R	< 1500	R
2,4-Dinitrotoluene	<210	<2600	4200	28000	R	290	< 2400	340 J	< 240	R
2,4-Toluenediamine	89000J	290000J	25000J	310000UJ	R	< 1190	< 12000	R	< 1210	R
2,6-Dichlorophenol	<260	<3100	<120	<32000	R	< 240	< 2400	R	< 240	R
2,6-Dinitrotoluene	<260	<3100	900	<32000	R	< 240	< 2400	350 J	< 240	R
2-Chloronaphthalene	<260	<3100	<120	<32000	R	< 240	< 2400	R	< 240	R
2-Chlorophenol	<210	<2600	<100	<26000	R	< 240	< 2400	R	< 240	R
2-Methylnaphthalene	<230	<2800	<110	<29000	R	< 240	< 2400	R	< 240	R
2-Naphthylamine	<1400	<18000	<700	<180000	R	< 900	< 9130	R	< 920	R
2-Nitroaniline	<230	<2800	<110	<29000	R	< 280	< 2880	R	< 290	R
2-Nitrodiphenylamine	<190	<2300	<91	<23000	R	< 240	< 2400	R	< 240	R
2-Nitrophenol	<210	<2600	<100	<26000	R	< 240	< 2400	R	< 240	R
2-Picoline	<210	<2600	<100	<26000	R	< 880	< 8890	R	< 900	R
3,3'-Dichlorobenzidine	<560	<6800	<270	<70000	R	< 1450	< 14700	R	< 1480	R
3-Methylcholanthrene	<260	<3100	<120	<32000	R	< 240	< 2400	R	< 240	R
3-Nitroaniline	<140	<1700	68	<17000	R	< 240	< 2400	R	< 240	R
4,4' Methylenedianiline	<3000	48000	5100	<370000	R	< 2090	< 21100	R	< 2130	R
4,6-Dinitro-o-cresol	<790	<9700	<390	<98000	R	< 240	< 2400	R	< 240	R
4-Aminobiphenyl	<1100	<14000	<560	<140000	R	< 240	< 2400	R	< 240	R
4-Aminodiphenylamine	NA	NA	NA	NA	R	< 590	< 6000	R	< 610	R
4-Bromophenyl phenyl ether	<260	<3100	<120	<32000	R	< 240	< 2400	R	< 240	R

TABLE 4.3-1
Soil Analytical Results for
SWMU Group B: SWMUs 5 and 6

SAMPLE ID	SM005-TB14-1516	SM005-TB15-0001	SM005-TB15-0305	SM005-TB15-1415	SM006-TB01-0001	SM006-TB01-0305	SM006-TB01-0709	SM006-TB01-1113	SM006-TB01-2123	SM006-TB02-0001
SAMPLE DEPTH(ft)	15.00-16.00	0.00-1.00	3.00-5.00	14.00-15.00	0.00-1.00	3.00-5.00	7.00-9.00	11.00-13.00	21.00-23.00	0.00-1.00
SAMPLE LOCATION	TB14	TB15	TB15	TB15	TB01	TB01	TB01	TB01	TB01	TB02
SAMPLE DATE	11/10/1999	11/10/1999	11/10/1999	11/10/1999	6/17/1997	6/17/1997	6/17/1997	6/17/1997	6/17/1997	6/17/1997
PARAMETER										
4-Chloro-m-cresol	<300	<3700	<150	<38000	R	< 240	< 2400	R	< 240	R
4-Chlorophenylphenyl ether	<230	<2800	<110	<29000	R	< 240	< 2400	R	< 240	R
4-Nitroaniline	<190	<2300	<91	<23000	R	< 240	< 2400	R	< 240	R
4-Nitrophenol	<720	<8800	<350	<90000	R	< 240 J	< 2400 J	R	< 240 J	R
5-Nitro-o-toluidine	<210	<2600	1100	<26000	R	< 240	< 2400	7070 J	< 240	R
7,12-dimethylbenz[a]anthracene	<330	<4000	<160	<41000	R	< 240	< 2400	R	< 240	R
Acenaphthene	<260	<3100	<120	<32000	R	< 240	< 2400	R	< 240	R
Acenaphthylene	<260	<3100	<120	<32000	R	< 240	< 2400	R	< 240	R
Acetophenone	<210	<2600	<100	<26000	R	< 310	< 3120	R	< 320	R
Aniline	<1000	24000	3000	<130000	R	< 330	< 3360	2580 J	< 340	R
Anthracene	<210	<2600	<100	<32000	R	< 240	< 2400	R	< 240	R
Azobenzene	<260	<3100	<120	<32000	R	< 280	< 2880	R	< 290	R
Benzidine	<3000	<3600	<140	<370000	R	< 3800	< 38400	R	< 3880	R
Benzo(a)anthracene	<260	<3100	<120	<32000	R	< 310	< 3120	R	< 320	R
Benzo(a)pyrene	2500	6600	610	<32000	R	< 240	< 2400	R	< 240	R
Benzo(b)fluoranthene	<210	19000	<100	<26000	R	< 240	< 2400	R	< 240	R
Benzo(ghi)perylene	<420	<5100	<200	<52000	R	< 260	< 2640	R	< 270	R
Benzo(k)fluoranthene	7500	24000	1800	<35000	R	< 240	< 2400	R	< 240	R
Benzoic Acid	<2600	<31000	<1200	<320000	R	< 240	< 2400	400 J	< 240	R
Benzyl Alcohol	<210	<2600	<100	<26000	R	< 240	< 2400	R	< 240	R
Benzyl butyl phthalate	<230	<2800	<110	<29000	R	< 240	< 2400	R	< 240	R
Bis(2-chloroethoxymethane)	<230	<2800	<110	<29000	R	< 240	< 2400	R	< 240	R
Bis(2-chloroethyl)ether	<210	<2600	<100	<26000	R	< 240	< 2400	500 J	< 240	R
Bis(2-chloroisopropyl)ether	<210	<2600	<100	<26000	R	< 240	< 2400	R	< 240	R
Bis(2-ethylhexyl) phthalate	<260	<3100	<120	<32000	810 J	670 B	< 2880	650 JB	570 B	R
Bisphenol A	<350	120000	20000	<43000	4890 J	8300	43700	5610 J	3680	39500 JB
Carbazole	<160	<2000	<80	<20000	R	< 1190	< 12000	R	< 1210	R
Chrysene	<260	<3100	<120	<32000	R	< 240	< 2400	R	< 240	R
Cyclohexanone	<120	<1400	<57	<14000	R	< 240	< 2400	R	< 240	R
Di-n-butyl phthalate	<210	<2600	120B	<26000	7110 J	5270 B	4010 B	4620 JB	7680 B	13900 JB
Di-n-octyl phthalate	<280	<3400	<140	<35000	R	< 240	< 2400	R	< 240	R
Dibenzo(a,h)anthracene	<300	<3700	<150	<38000	R	< 240	< 2400	R	< 240	R
Dibenzofuran	<210	<2600	<100	<26000	R	< 240	< 2400	R	< 240	R
Diethyl Phthalate	<210	3500	150	<26000	R	< 240	< 2400	R	< 240	R
Dimethylphthalate	<210	<2600	<100	<26000	R	< 240	< 2400	R	< 240	R
Ethyl Methane Sulfonate	<190	<2300	<91	<23000	R	< 430	< 4320	R	< 440	R
Fluoranthene	<230	<2800	<110	<29000	R	< 240	< 2400	R	< 240	R
Fluorene	<260	<3100	210	<32000	R	< 240 J	< 2400 J	R	< 240 J	R
Heptachlor	<190	<2300	<91	<23000	R	< 260	< 2640	R	< 270	R
Hexachlorobenzene	<330	<4000	<160	<41000	R	< 240	< 2400	R	< 240	R
Hexachlorobutadiene	<210	<2600	<100	<26000	R	< 240	< 2400	R	< 240	R
Hexachlorocyclopentadiene	<3200	<38000	<1500	<390000	R	< 240	< 2400	R	< 240	R
Hexachloroethane	<210	<2600	<100	<26000	R	< 240	< 2400	R	< 240	R
Indeno(1,2,3-cd)pyrene	<330	<4000	<160	<41000	R	< 240	< 2400	R	< 240	R
Isophorone	<280	<3400	<140	<35000	R	< 240	< 2400	R	< 240	R
Methyl methane sulfonate	<230	<2800	<110	<29000	R	< 240	< 2400	R	< 240	R
N-Nitrosodibutylamine	<280	<3400	<140	<35000	R	< 240	< 2400	R	< 240	R
N-Nitrosodimethylamine	<210	<2600	<100	<26000	R	< 240 J	< 2400 J	R	< 240 J	R
N-Nitrosodiphenylamine	<650	<8000	<320	<81000	R	< 310	< 3120	R	< 320	R
N-Nitrosodipropylamine	<210	<2600	<100	<26000	R	< 240	< 2400	R	< 240	R
N-Nitrosopiperidine	<230	<2800	<110	<29000	R	< 240	< 2400	R	< 240	R
Naphthalene	<230	<2800	<100	<29000	R	< 240	< 2400	R	< 240	R
Nitrobenzene	<210	<2600	1200	27000	R	< 240	< 2400	6050 J	< 240	R
Pentachlorobenzene	<260	<3100	<120	<32000	R	< 400	< 4080	R	< 410	R

TABLE 4.3-1
Soil Analytical Results for
SWMU Group B: SWMUs 5 and 6

SAMPLE ID	SM005-TB14-1516	SM005-TB15-0001	SM005-TB15-0305	SM005-TB15-1415	SM006-TB01-0001	SM006-TB01-0305	SM006-TB01-0709	SM006-TB01-1113	SM006-TB01-2123	SM006-TB02-0001
SAMPLE DEPTH(ft)	15.00-16.00	0.00-1.00	3.00-5.00	14.00-15.00	0.00-1.00	3.00-5.00	7.00-9.00	11.00-13.00	21.00-23.00	0.00-1.00
SAMPLE LOCATION	TB14	TB15	TB15	TB15	TB01	TB01	TB01	TB01	TB01	TB02
SAMPLE DATE	11/10/1999	11/10/1999	11/10/1999	11/10/1999	6/17/1997	6/17/1997	6/17/1997	6/17/1997	6/17/1997	6/17/1997
PARAMETER										
Pentachloronitrobenzene	<160	<2000	<80	<20000	R	< 240	< 2400	R	< 240	R
Pentachlorophenol	<580	<7100	<280	<72000	R	< 240	< 2400	R	< 240	R
Phenacetin	<210	<2600	<100	<26000	R	< 240	< 2400	R	< 240	R
Phenanthrene	<230	<2800	<110	<29000	R	< 240	< 2400	R	< 240	R
Phenol	<230	<2800	<110	<29000	R	< 140	< 1440	520 J	< 150	R
Pyrene	<260	<3100	<120	<32000	R	< 240	< 2400	R	< 240	R
Pyridine	<210	<2600	<1220	<26000	R	< 260	< 2640	R	< 270	R
Trimethylphosphate	<210	<2600	<100	<26000	R	< 240	< 2400	R	< 240	R
Triphenylphosphate	<300	<3700	<150	<38000	R	< 1190	< 12000	R	< 1210	R
m,p-Cresol	<420	<5100	<200	<52000	R	< 360	< 3600	R	< 360	R
m-Nitrotoluene	<230	<2800	<110	<29000	R	< 240	< 2400	590 J	< 240	R
m-Toluidine	<190	2700	<91	<23000	R	< 470	< 4800	R	< 480	R
o,p-Toluidine	230	<2000	360	<20000	R	< 1210	< 12300	R	< 1240	R
o-Cresol	<190	<2300	<91	<23000	R	< 240	< 2400	R	< 240	R
o-Nitrotoluene	<260	<3100	510	<32000	R	< 240	< 2400	1230 J	< 240	R
p-Chloroaniline	390	170000	24000	610000	R	240	< 2400	R	< 240	R
p-Dimethylaminoazobenzene	<30	<3700	<150	<38000	R	< 240	< 2400	R	< 240	R
p-Nitrotoluene	<210	<2600	<100	380000	R	< 360	< 3600	5300 J	< 360	R
Metals (µg/kg)										
Antimony	<2.33	<2.28	<2.27	<2.32	< 443	< 475	< 480	< 486	< 485	< 448
Cadmium	<0.583	<0.569	<0.568	<0.579	< 440	< 470	3440	760	870	650
Chromium	3.10	2.33	4.70	4.70	15500	11900	21700	16100	15300	12700
Lead	8.18	6.64	15.1	5.39	15400	16700	69300	30800	15200	14700
Nickel	273	79.5	44.9	393	31100	46800	409000	41300	21800	47900
Miscellaneous (µg/kg)										
Percent Moisture	14.3%	12.2%	12.0%	13.7%	NA	NA	17 %	18 %	NA	11 %
Total Organic Carbon	NA	NA	NA	NA	NA	NA	7900000 J	5800000 J	NA	4300000 J
BTU from ECD	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ignitability (Flash Point) for S	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Percent Ash	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH in Water (Solid Sample)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
NA=Not analyzed
B=Blank contamination
J=Estimated concentration
K=Estimated concentration (high)
L=Estimated concentration (low)
R=Rejected Data, Additional Data P
U=Nondetect at reported limit
<=Nondetect at reported limit

LE 4.3-1
Soi ytical Results for
SWMU Group B: SWMUs 5 and 6

SAMPLE ID	SM006-TB02-0305	SM006-TB02-0507	SM006-TB02-0709	SM006-TB02-1517	SM006-TB02-2123	SM006-TB03-0001	SM006-TB03-0305	SM006-TB03-0507	SM006-TB03-1315	SM006-TB03-1719
SAMPLE DEPTH(ft)	3.00-5.00	5.00-7.00	7.00-9.00	15.00-17.00	21.00-23.00	0.00-1.00	3.00-5.00	5.00-7.00	13.00-15.00	17.00-19.00
SAMPLE LOCATION	TB02	TB02	TB02	TB02	TB02	TB03	TB03	TB03	TB03	TB03
SAMPLE DATE	6/17/1997	7/8/1997	6/17/1997	6/17/1997	6/17/1997	6/17/1997	6/17/1997	6/17/1997	6/17/1997	6/17/1997
PARAMETER										
Volatiles (µg/kg)										
1,1,1,2-Tetrachloroethane	< 291	NA	< 301	< 300	< 308	< 288	< 5840	< 294	< 293	< 300
1,1,1-Trichloroethane	< 151	NA	< 157	< 156	< 160	< 150	< 2920	< 153	< 152	< 156
1,1,2,2-Tetrachloroethane	< 151	NA	< 157	< 156	< 160	< 150	< 2920	< 153	< 152	< 156
1,1,2-Trichloroethane	< 291	NA	< 301	< 300	< 308	< 288	< 5840	< 294	< 293	< 300
1,1-Dichloroethane	< 151	NA	< 157	< 156	< 160	< 150	< 2920	< 153	< 152	< 156
1,1-Dichloroethene	< 291	NA	< 301	< 300	< 308	< 288	< 5840	< 294	< 293	< 300
1,1-Dichloropropene	< 151	NA	< 157	< 156	< 160	< 150	< 2920	< 153	< 152	< 156
1,2,3-Trichlorobenzene	< 151	NA	157 J	< 156	< 160	< 150	< 2920	< 153	< 152	< 156
1,2,3-Trichloropropane	< 151	NA	< 157	< 156	< 160	< 150	< 2920	< 153	< 152	< 156
1,2,4-Trichlorobenzene	< 151	NA	1330	< 156	< 160	< 150	< 2920	< 153	481 J	432 J
1,2,4-Trimethylbenzene	< 151	NA	< 157	< 156	< 160	< 150	< 2920	< 153	< 152	< 156
1,2-Dibromo-3-chloropropane	< 291	NA	< 301	< 300	< 308	< 288	< 5840	< 294	< 293	< 300
1,2-Dibromoethane	< 151	NA	< 157	< 156	< 160	< 150	< 2920	< 153	< 152	< 156
1,2-Dichlorobenzene	1400	NA	6270	2040	< 308	< 288	199000	43500 K	70300	86300
1,2-Dichloroethane	< 291	NA	< 301	< 300	< 308	< 288	< 5840	< 294	< 293	< 300
1,2-Dichloropropane	< 442	NA	< 458	< 456	< 469	< 437	< 8760	< 447	< 445	< 456
1,3,5-Trimethylbenzene	< 151	NA	< 157	< 156	< 160	< 150	< 2920	< 153	< 152	< 156
1,3-Dichlorobenzene	< 291	NA	< 301	< 300	< 308	< 288	< 5840	< 294	< 293	< 300
1,3-Dichloropropane	< 151	NA	< 157	< 156	< 160	< 150	< 2920	< 153	< 152	< 156
1,4-Dichlorobenzene	< 291	NA	4940	636 J	< 308	< 288	< 5840	1760 K	3170	3000
2,2-Dichloropropane	< 151	NA	< 157	< 156	< 160	< 150	< 2920	< 153	< 152	< 156
2-Butanone	< 1020	NA	< 1060	< 1060	< 1090	< 1010	< 21000	< 1030	< 1030	< 1060
2-Chloroethyl Vinyl Ether	< 291	NA	< 301	< 300	< 308	< 288	< 5840	< 294	< 293	< 300
2-Chlorotoluene	< 151	NA	< 157	< 156	< 160	< 150	< 2920	< 153	< 152	216 J
2-Hexanone	< 442	NA	< 458	< 456	< 469	< 437	< 8760	< 447	< 445	< 456
4-Chlorotoluene	< 151	NA	< 157	< 156	< 160	< 150	< 2920	< 153	< 152	< 156
4-Methyl-2-pentanone	< 442	NA	< 458	< 456	< 469	< 437	< 8760	< 447	< 445	< 456
Acetone	< 1020	NA	< 1060	< 1060	< 1090	< 1010	< 21000	< 1030	< 1030	< 1060
Acrolein	< 2910	NA	< 3010	< 3000	< 3080	< 2880	< 58400	< 2940	< 2930	< 3000
Acrylonitrile	< 1510	NA	< 1570	< 1560	< 1600	< 1500	< 29200	< 1530	< 1520	< 1560
Allyl Chloride	< 151	NA	< 157	< 156	< 160	< 150	< 2920	< 153	< 152	< 156
Benzene	< 151	NA	181 J	< 156	< 160	< 150	7940 J	987 K	903	683 J
Bromobenzene	< 151	NA	< 157	< 156	< 160	< 150	< 2920	< 153	< 152	< 156
Bromochloromethane	< 151	NA	< 157	< 156	< 160	< 150	< 2920	< 153	< 152	< 156
Bromodichloromethane	< 291	NA	< 301	< 300	< 308	< 288	< 5840	< 294	< 293	< 300
Bromoform	< 151	NA	< 157	< 156	< 160	< 150	< 2920	< 153	< 152	< 156
Bromomethane	< 442	NA	< 458	< 456	< 469	< 437	< 8760	< 447	< 445	< 456
Carbon Disulfide	< 442	NA	< 458	< 456	< 469	< 437	< 8760	< 447	< 445	< 456
Carbon Tetrachloride	< 151	NA	< 157	< 156	< 160	< 150	< 2920	< 153	< 152	< 156
Chlorobenzene	953	NA	38600	4200	< 160	299 J	1400000	212000 K	98500	132000
Chloroethane	< 442	NA	< 458	< 456	< 469	< 437	< 8760	< 447	< 445	< 456
Chloroform	< 151	NA	< 157	< 156	< 160	< 150	< 2920	< 153	< 152	< 156
Chloromethane	< 291	NA	< 301	< 300	< 308	< 288	< 5840	< 294	< 293	< 300
Dibromochloromethane	< 151	NA	< 157	< 156	< 160	< 150	< 2920	< 153	< 152	< 156
Dibromomethane	< 151	NA	< 157	< 156	< 160	< 150	< 2920	< 153	< 152	< 156
Dichlorodifluoromethane	< 291	NA	< 301	< 300	< 308	< 288	< 5840	< 294	< 293	< 300
Ethyl Methacrylate	< 151	NA	< 157	< 156	< 160	< 150	< 2920	< 153	< 152	< 156
Ethylbenzene	< 151	NA	< 157	< 156	< 160	< 150	< 2920	353 J	< 152	180 J
Freon 113	< 291	NA	422 J	300 J	691 J	299 JB	10300 JB	< 294	1520	< 300
Freon 141b	< 151	NA	< 157	< 156	< 160	< 150	< 2920	< 153	< 152	< 156
Hexachlorobutadiene	< 291	NA	< 301	< 300	< 308	< 288	< 5840	< 294	< 293	< 300
Isopropylbenzene	< 442	NA	< 458	< 456	< 469	< 437	< 8760	< 447	< 445	< 456
Methyl Iodide	< 442	NA	< 458	< 456	< 469	< 437	< 8760	< 447	< 445	< 456
Methylene Chloride	< 291	NA	< 301	< 300	< 308	< 288	< 5840	< 294	< 293	< 300

TABLE 4.3-1
Soil Analytical Results for
SWMU Group B: SWMUs 5 and 6

SAMPLE ID	SM006-TB02-0305	SM006-TB02-0507	SM006-TB02-0709	SM006-TB02-1517	SM006-TB02-2123	SM006-TB03-0001	SM006-TB03-0305	SM006-TB03-0507	SM006-TB03-1315	SM006-TB03-1719
SAMPLE DEPTH(ft)	3.00-5.00	5.00-7.00	7.00-9.00	15.00-17.00	21.00-23.00	0.00-1.00	3.00-5.00	5.00-7.00	13.00-15.00	17.00-19.00
SAMPLE LOCATION	TB02	TB02	TB02	TB02	TB02	TB03	TB03	TB03	TB03	TB03
SAMPLE DATE	6/17/1997	7/8/1997	6/17/1997	6/17/1997	6/17/1997	6/17/1997	6/17/1997	6/17/1997	6/17/1997	6/17/1997
PARAMETER										
Naphthalene	< 151	NA	< 157	< 156	< 160	< 150	< 2920	< 153	< 152	< 156
Styrene	< 151	NA	< 157	< 156	< 160	< 150	< 2920	< 153	< 152	< 156
Tetrachloroethene	< 151	NA	< 157	< 156	< 160	< 150	< 2920	< 153	< 152	< 156
Toluene	< 151	NA	< 157	< 156	< 160	< 150	7480 J	1180 K	1170	1320
Trichloroethene	< 151	NA	< 157	< 156	< 160	< 150	< 2920	1060 K	< 152	< 156
Trichlorofluoromethane	< 291	NA	< 301	< 300	< 308	< 288	< 5840	< 294	< 293	< 300
Vinyl Acetate	< 442	NA	< 458	< 456	< 469	< 437	< 8760	< 447	< 445	< 456
Vinyl Chloride	< 291	NA	< 301	< 300	< 308	< 288	< 5840	< 294	< 293	< 300
cis-1,2-Dichloroethene	< 291	NA	< 301	< 300	< 308	< 288	< 5840	< 294	< 293	< 300
cis-1,3-Dichloropropene	< 151	NA	< 157	< 156	< 160	< 150	< 2920	< 153	< 152	< 156
m+p-Xylene	< 151	NA	169 J	< 156	< 160	< 150	< 2920	1410 K	469 J	839
n-Butylbenzene	< 151	NA	< 157	< 156	< 160	< 150	< 2920	< 153	< 152	< 156
n-Propylbenzene	< 151	NA	< 157	< 156	< 160	< 150	< 2920	< 153	< 152	< 156
o-Xylene	< 151	NA	< 157	< 156	< 160	< 150	< 2920	423 J	188 J	312 J
p-Isopropyltoluene	< 151	NA	12100	828	< 160	< 150	4090 J	1760 K	1990	2520
sec-Butylbenzene	< 151	NA	< 157	< 156	< 160	< 150	< 2920	< 153	< 152	< 156
tert-Butylbenzene	< 151	NA	< 157	< 156	< 160	< 150	< 2920	< 153	< 152	< 156
trans-1,2-Dichloroethene	< 291	NA	< 301	< 300	< 308	< 288	< 5840	< 294	< 293	< 300
trans-1,3-Dichloropropene	< 151	NA	< 157	< 156	< 160	< 150	< 2920	< 153	< 152	< 156
trans-1,4-Dichloro-2-butene	< 1510	NA	< 1570	< 1560	< 1600	< 1500	< 29200	< 1530	< 1520	< 1560
Semivolatiles (µg/kg)										
1,2,3-Trichlorobenzene	< 2790	NA	< 2890	< 2880	R	< 2760	< 14000	< 14100	< 5630	< 14400
1,2,4,5-Tetrachlorobenzene	< 2790	NA	< 2890	< 2880	R	< 2760	< 14000	< 14100	< 5630	< 14400
1,2,4-Trichlorobenzene	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
1,2-Dichlorobenzene	2720	NA	20700	9890	R	< 2300	105000	355000	35600	173000
1,3-Dichlorobenzene	< 2330	NA	< 2410	< 2400	R	< 2300	95000	< 11800	< 4690	< 12000
1,4-Dichlorobenzene	< 2330	NA	2510	< 2400	R	< 2300	95000	< 11800	< 4690	< 12000
1-Chloronaphthalene	< 5810	NA	< 6030	< 6000	R	< 5750	< 29200	< 29400	< 11700	< 30000
1-Methylnaphthalene	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
1-Naphthylamine	< 7910	NA	< 8200	< 8160	R	< 7830	< 39700	< 40000	< 15900	< 40800
2,3,4,6-Tetrachlorophenol	< 4650	NA	< 4820	< 4800	R	< 4600	< 23400	< 23500	< 9380	< 24000
2,3-Dichloroaniline	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
2,4,5-Trichlorophenol	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
2,4,6-Trichlorophenol	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
2,4-Dichlorophenol	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
2,4-Dimethylphenol	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
2,4-Dinitrophenol	< 14400	NA	< 15000	< 14900	R	< 14300	< 72400	< 72900	< 29100	< 74300
2,4-Dinitrotoluene	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	25400	399000	< 12000
2,4-Toluenediamine	< 11600	NA	< 12100	< 12000	R	< 11500	417000	203000	34000	653000
2,6-Dichlorophenol	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
2,6-Dinitrotoluene	< 2330	NA	< 2410	< 2400	250 J	< 2300	< 11700	< 11800	12300	< 12000
2-Chloronaphthalene	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
2-Chlorophenol	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
2-Methylnaphthalene	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
2-Naphthylamine	< 8840	NA	< 9160	< 9120	R	< 8750	< 44400	< 44700	< 17800	< 45600
2-Nitroaniline	< 2790	NA	< 2890	< 2880	R	< 2760	< 14000	< 14100	< 5630	< 14400
2-Nitrodiphenylamine	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
2-Nitrophenol	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
2-Picoline	< 8600	NA	< 8920	< 8880	R	< 8520	< 43200	< 43500	< 17400	< 44400
3,3'-Dichlorobenzidine	< 14200	NA	< 14700	< 14700	R	< 14000	< 71300	< 71700	< 28600	< 73100
3-Methylcholanthrene	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
3-Nitroaniline	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
4,4' Methylenedianiline	< 20500	NA	< 21200	< 21100	R	< 20300	218000	501000	< 41300	186000
4,6-Dinitro-o-cresol	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
4-Aminobiphenyl	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
4-Aminodiphenylamine	< 5810	NA	< 6030	< 6000	R	< 5750	< 29200	< 29400	< 11700	< 30000
4-Bromophenyl phenyl ether	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000

BLE 4.3-1
So ytical Results for
SWMU Group B: SWMUs 5 and 6

SAMPLE ID	SM006-TB02-0305	SM006-TB02-0507	SM006-TB02-0709	SM006-TB02-1517	SM006-TB02-2123	SM006-TB03-0001	SM006-TB03-0305	SM006-TB03-0507	SM006-TB03-1315	SM006-TB03-1719
SAMPLE DEPTH(ft)	3.00-5.00	5.00-7.00	7.00-9.00	15.00-17.00	21.00-23.00	0.00-1.00	3.00-5.00	5.00-7.00	13.00-15.00	17.00-19.00
SAMPLE LOCATION	TB02	TB02	TB02	TB02	TB02	TB03	TB03	TB03	TB03	TB03
SAMPLE DATE	6/17/1997	7/8/1997	6/17/1997	6/17/1997	6/17/1997	6/17/1997	6/17/1997	6/17/1997	6/17/1997	6/17/1997
PARAMETER										
4-Chloro-m-cresol	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
4-Chlorophenylphenyl ether	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
4-Nitroaniline	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
4-Nitrophenol	< 2330 J	NA	< 2410 J	< 2400 J	R	< 2300 J	< 11700 J	< 11800 J	< 4690 J	< 12000 J
5-Nitro-o-toluidine	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	32200	46900	< 12000
7,12-dimethylbenz[a]anthracene	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
Acenaphthene	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
Acenaphthylene	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
Acetophenone	< 3020	NA	< 3140	< 3120	R	< 2990	< 15200	< 15300	< 6100	< 15600
Aniline	< 3260	NA	17400	< 3360	R	< 3220	87200	208000	10600	28100
Anthracene	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
Azobenzene	< 2790	NA	< 2890	< 2880	R	< 2760	< 14000	< 14100	< 5630	< 14400
Benzidine	< 37200	NA	< 38600	< 38400	R	< 36800	< 187000	< 188000	< 75000	< 192000
Benzo(a)anthracene	< 3020	NA	< 3140	< 3120	R	< 2990	< 15200	< 15300	< 6100	< 15600
Benzo(a)pyrene	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	22700
Benzo(b)fluoranthene	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
Benzo(ghi)perylene	< 2560	NA	< 2650	< 2640	R	< 2530	< 12900	< 12900	< 5160	< 13200
Benzo(k)fluoranthene	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	28700
Benzoic Acid	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
Benzyl Alcohol	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
Benzyl butyl phthalate	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
Bis(2-chloroethoxymethane)	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
Bis(2-chloroethyl)ether	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
Bis(2-chloroisopropyl)ether	< 2330	NA	< 2410	< 2400	R	< 2300	71500	< 11800	< 4690	< 12000
Bis(2-ethylhexyl) phthalate	< 2790	NA	< 2890	< 2880	1470 JB	< 2760	< 14000	< 14100	< 5630	< 14400
Bisphenol A	39500	NA	90400	48700	3750 J	25800	889000	720000	267000	430000
Carbazole	< 11600	NA	< 12100	< 12000	R	< 11500	< 58400	< 58800	< 23500	< 60000
Chrysene	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
Cyclohexanone	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
Di-n-butyl phthalate	6470 B	NA	2870 B	5210 B	7720 JB	8100	< 11700	< 11800	5160	< 12000
Di-n-octyl phthalate	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
Dibenzo(a,h)anthracene	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
Dibenzofuran	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
Diethyl Phthalate	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
Dimethylphthalate	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
Ethyl Methane Sulfonate	< 4190	NA	< 4340	< 4320	R	< 4140	< 21000	< 21200	< 8440	< 21600
Fluoranthene	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
Fluorene	< 2330 J	NA	< 2410 J	< 2400 J	R	< 2300 J	< 11700 J	< 11800 J	< 4690 J	< 12000 J
Heptachlor	< 2560	NA	< 2650	< 2640	R	< 2530	< 12900	< 12900	< 5160	< 13200
Hexachlorobenzene	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
Hexachlorobutadiene	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
Hexachlorocyclopentadiene	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
Hexachloroethane	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
Indeno(1,2,3-cd)pyrene	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
Isophorone	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
Methyl methane sulfonate	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
N-Nitrosodibutylamine	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
N-Nitrosodimethylamine	< 2330 J	NA	< 2410 J	< 2400 J	R	< 2300 J	< 11700 J	< 11800 J	< 4690 J	< 12000 J
N-Nitrosodiphenylamine	< 3020	NA	< 3140	< 3120	R	< 2990	< 15200	< 15300	< 6100	< 15600
N-Nitrosodipropylamine	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
N-Nitrosopiperidine	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
Naphthalene	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
Nitrobenzene	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	30100	< 4690	< 12000
Pentachlorobenzene	< 3950	NA	< 4100	< 4080	R	< 3910	< 19900	< 20000	< 7970	< 20400

TABLE 4.3-1
Soil Analytical Results for
SWMU Group B: SWMUs 5 and 6

SAMPLE ID	SM006-TB02-0305	SM006-TB02-0507	SM006-TB02-0709	SM006-TB02-1517	SM006-TB02-2123	SM006-TB03-0001	SM006-TB03-0305	SM006-TB03-0507	SM006-TB03-1315	SM006-TB03-1719
SAMPLE DEPTH(ft)	3.00-5.00	5.00-7.00	7.00-9.00	15.00-17.00	21.00-23.00	0.00-1.00	3.00-5.00	5.00-7.00	13.00-15.00	17.00-19.00
SAMPLE LOCATION	TB02	TB02	TB02	TB02	TB02	TB03	TB03	TB03	TB03	TB03
SAMPLE DATE	6/17/1997	7/8/1997	6/17/1997	6/17/1997	6/17/1997	6/17/1997	6/17/1997	6/17/1997	6/17/1997	6/17/1997
PARAMETER										
Pentachloronitrobenzene	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
Pentachlorophenol	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
Phenacetin	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
Phenanthrene	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
Phenol	< 1400	NA	< 1450	< 1440	R	2810	< 7010	< 7050	< 2810	< 7190
Pyrene	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
Pyridine	< 2560	NA	< 2650	< 2640	R	< 2530	< 12900	< 12900	< 5160	< 13200
Trimethylphosphate	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
Triphenylphosphate	< 11600	NA	< 12100	< 12000	R	< 11500	< 58400	< 58800	< 23500	< 60000
m,p-Cresol	< 3490	NA	< 3620	< 3600	R	< 3450	8610000	< 17600	< 7030	< 18000
m-Nitrotoluene	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
m-Toluidine	< 4650	NA	< 4820	< 4800	R	< 4600	< 23400	< 23500	< 9380	< 24000
o,p-Toluidine	< 11900	NA	< 12300	< 12200	R	< 11700	< 59600	99800	< 23900	< 61200
o-Cresol	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
o-Nitrotoluene	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
p-Chloroaniline	< 2330	NA	< 2410	< 2400	R	< 2300	64300	147000	19300	71300
p-Dimethylaminoazobenzene	< 2330	NA	< 2410	< 2400	R	< 2300	< 11700	< 11800	< 4690	< 12000
p-Nitrotoluene	< 3490	NA	< 3620	< 3600	R	< 3450	< 17500	23900	< 7030	< 18000
Metals (µg/kg)										
Antimony	< 465	NA	< 482	< 480	< 493	< 460	NA	< 470	< 469	< 480
Cadmium	< 470	NA	1400	1550	< 490	1410	NA	2450	1770	< 480
Chromium	16700	NA	13900	19500	19700	24200	NA	14500	17000	15400
Lead	12200	NA	21000	40900	17000	39900	NA	22800	24000	17800
Nickel	45200	NA	116000	215000	17800	69600	NA	326000	149000	188000
Miscellaneous (µg/kg)										
Percent Moisture	14 %	28 %	17 %	17 %	19 %	NA	NA	NA	NA	NA
Total Organic Carbon	3900000 J	NA	3800000 J	4800000 J	4700000 J	NA	NA	NA	NA	NA
BTU from ECD	< 500 BTU	< 500 BTU	NA	< 500 BTU	NA	NA	NA	NA	NA	NA
Ignitability (Flash Point) for S	Negative	Negative	NA	Negative	NA	NA	NA	NA	NA	NA
Percent Ash	72 %	60 %	NA	65 %	NA	NA	NA	NA	NA	NA
pH in Water (Solid Sample)	6.5 std	NA	NA	6.7 std	NA	NA	NA	NA	NA	NA

Notes:
NA=Not analyzed
B=Blank contamination
J=Estimated concentration
K=Estimated concentration (high)
L=Estimated concentration (low)
R=Rejected Data, Additional Data P
U=Nondetect at reported limit
<=Nondetect at reported limit

LE 4.3-1
Sc... ical Results for
SWMU Group B: SWMUs 5 and 6

SAMPLE ID	SM006-TB04-0001	SM006-TB04-0305	SM006-TB04-0507	SM006-TB04-1820	SM006-TB05-0001	SM006-TB05-0305	SM006-TB05-0911
SAMPLE DEPTH(ft)	0.00-1.00	3.00-5.00	5.00-7.00	18.00-20.00	0.00-1.00	3.00-5.00	9.00-11.00
SAMPLE LOCATION	TB04	TB04	TB04	TB04	TB05	TB05	TB05
SAMPLE DATE	6/18/1997	6/18/1997	6/18/1997	7/16/1997	6/16/1997	6/16/1997	6/16/1997
PARAMETER							
Volatiles (µg/kg)							
1,1,1,2-Tetrachloroethane	< 289	< 302	< 311	< 296	< 262	< 296	< 295
1,1,1-Trichloroethane	< 150	< 157	< 161	< 154	< 136	< 154	< 153
1,1,2,2-Tetrachloroethane	< 150	< 157	< 161	< 154	< 136	< 154	< 153
1,1,2-Trichloroethane	< 289	< 302	< 311	< 296	< 262	< 296	< 295
1,1-Dichloroethane	< 150	< 157	< 161	< 154	< 136	< 154	< 153
1,1-Dichloroethene	< 289	< 302	< 311	< 296	< 262	< 296	< 295
1,1-Dichloropropene	< 150	< 157	< 161	< 154	< 136	< 154	< 153
1,2,3-Trichlorobenzene	< 150	< 157	< 161	< 154	< 136	< 154	< 153
1,2,3-Trichloropropane	< 150	< 157	< 161	< 154	< 136	< 154	< 153
1,2,4-Trichlorobenzene	< 150	< 157	< 161	< 154	< 136	< 154	< 153
1,2,4-Trimethylbenzene	< 150	< 157	< 161	< 154	< 136	< 154	< 153
1,2-Dibromo-3-chloropropane	< 289	< 302	< 311	< 296	< 262	< 296	< 295
1,2-Dibromoethane	< 150	< 157	< 161	< 154	< 136	< 154	< 153
1,2-Dichlorobenzene	2310	58000	27300	< 296	< 262	14200	4950
1,2-Dichloroethane	< 289	< 302	< 311	< 296	< 262	< 296	< 295
1,2-Dichloropropane	< 440	< 459	< 472	< 450	< 399	< 449	< 448
1,3,5-Trimethylbenzene	< 150	< 157	< 161	< 154	< 136	< 154	< 153
1,3-Dichlorobenzene	< 289	< 302	< 311	< 296	< 262	< 296	< 295
1,3-Dichloropropane	< 150	< 157	< 161	< 154	< 136	< 154	< 153
1,4-Dichlorobenzene	< 289	2420	2240	< 296	< 262	567 J	< 295
2,2-Dichloropropane	< 150	< 157	< 161	< 154	< 136	< 154	< 153
2-Butanone	< 1020	< 1060	< 1090	< 1040	< 923	< 1040	< 1040
2-Chloroethyl Vinyl Ether	< 289	< 302	< 311	< 296	< 262	< 296	< 295
2-Chlorotoluene	< 150	< 157	< 161	< 154	< 136	< 154	307 J
2-Hexanone	< 440	< 459	< 472	< 450	< 399	< 449	< 448
4-Chlorotoluene	< 150	< 157	< 161	< 154	< 136	< 154	< 153
4-Methyl-2-pentanone	< 440	< 459	< 472	< 450	< 399	< 449	< 448
Acetone	< 1020	< 1060	< 1090	< 1040	< 923	< 1040	< 1040
Acrolein	< 2890	< 3020	< 3110	< 2960	< 2620	< 2960	< 2950
Acrylonitrile	< 1500	< 1570	< 1610	< 1540	< 1360	< 1540	< 1530
Allyl Chloride	< 150	< 157	< 161	< 154	< 136	< 154	< 153
Benzene	< 150	1210	870	< 154	< 136	< 154	< 153
Bromobenzene	< 150	< 157	< 161	< 154	< 136	< 154	< 153
Bromochloromethane	< 150	< 157	< 161	< 154	< 136	< 154	< 153
Bromodichloromethane	< 289	< 302	< 311	< 296	< 262	< 296	< 295
Bromoform	< 150	< 157	< 161	< 154	< 136	< 154	< 153
Bromomethane	< 440	< 459	< 472	< 450	< 399	< 449	< 448
Carbon Disulfide	< 440	< 459	< 472	< 450	< 399	< 449	< 448
Carbon Tetrachloride	< 150	< 157	< 161	< 154	< 136	< 154	< 153
Chlorobenzene	787	36300	78300	< 154	< 136	13000	8370
Chloroethane	< 440	< 459	< 472	< 450	< 399	< 449	< 448
Chloroform	< 150	< 157	< 161	< 154	< 136	< 154	< 153
Chloromethane	< 289	< 302	< 311	< 296	< 262	< 296	< 295
Dibromochloromethane	< 150	< 157	< 161	< 154	< 136	< 154	< 153
Dibromomethane	< 150	< 157	< 161	< 154	< 136	< 154	< 153
Dichlorodifluoromethane	< 289	< 302	< 311	< 296	< 262	< 296	< 295
Ethyl Methacrylate	< 150	< 157	< 161	< 154	< 136	< 154	< 153
Ethylbenzene	< 150	< 157	< 161	< 154	< 136	< 154	< 153
Freon 113	359 J	< 302	385 J	< 296	346 J	< 296	< 295
Freon 141b	< 150	< 157	< 161	< 154	< 136	< 154	< 153
Hexachlorobutadiene	< 289	< 302	< 311	< 296	< 262	< 296	< 295
Isopropylbenzene	< 440	< 459	< 472	< 450	< 399	< 449	< 448
Methyl Iodide	< 440	< 459	< 472	< 450	< 399	< 449	< 448
Methylene Chloride	< 289	< 302	< 311	< 296	< 262	< 296	< 295

TABLE 4.3-1
Soil Analytical Results for
SWMU Group B: SWMUs 5 and 6

SAMPLE ID	SM006-TB04-0001	SM006-TB04-0305	SM006-TB04-0507	SM006-TB04-1820	SM006-TB05-0001	SM006-TB05-0305	SM006-TB05-0911
SAMPLE DEPTH(ft)	0.00-1.00	3.00-5.00	5.00-7.00	18.00-20.00	0.00-1.00	3.00-5.00	9.00-11.00
SAMPLE LOCATION	TB04	TB04	TB04	TB04	TB05	TB05	TB05
SAMPLE DATE	6/18/1997	6/18/1997	6/18/1997	7/16/1997	6/16/1997	6/16/1997	6/16/1997
PARAMETER							
Naphthalene	< 150	< 157	< 161	< 154	< 136	< 154	< 153
Styrene	< 150	< 157	< 161	< 154	< 136	< 154	< 153
Tetrachloroethene	< 150	< 157	< 161	< 154	< 136	< 154	< 153
Toluene	< 150	931	509 J	< 154	< 136	< 154	436 J
Trichloroethene	< 150	< 157	< 161	< 154	< 136	< 154	< 153
Trichlorofluoromethane	< 289	< 302	< 311	< 296	< 262	< 296	< 295
Vinyl Acetate	< 440	< 459	< 472	< 450	< 399	< 449	< 448
Vinyl Chloride	< 289	< 302	< 311	< 296	< 262	< 296	< 295
cis-1,2-Dichloroethene	< 289	< 302	< 311	< 296	< 262	< 296	< 295
cis-1,3-Dichloropropene	< 150	< 157	< 161	< 154	< 136	< 154	< 153
m+p-Xylene	< 150	230 J	< 161	< 154	< 136	154 J	413 J
n-Butylbenzene	< 150	< 157	< 161	< 154	< 136	< 154	< 153
n-Propylbenzene	< 150	< 157	< 161	< 154	< 136	< 154	< 153
o-Xylene	< 150	< 157	< 161	< 154	< 136	< 154	153 J
p-Isopropyltoluene	< 150	7740	2110	< 154	< 136	1050	354 J
sec-Butylbenzene	< 150	< 157	< 161	< 154	< 136	< 154	< 153
tert-Butylbenzene	< 150	< 157	< 161	< 154	< 136	< 154	< 153
trans-1,2-Dichloroethene	< 289	< 302	< 311	< 296	< 262	< 296	< 295
trans-1,3-Dichloropropene	< 150	< 157	< 161	< 154	< 136	< 154	< 153
trans-1,4-Dichloro-2-butene	< 1500	< 1570	< 1610	< 1540	< 1360	< 1540	< 1530
Semivolatiles (µg/kg)							
1,2,3-Trichlorobenzene	< 2780	< 5800 J	R	< 280	< 2520	R	R
1,2,4,5-Tetrachlorobenzene	< 2780	< 5800 J	R	< 280	< 2520	R	R
1,2,4-Trichlorobenzene	< 2310	< 4840 J	R	< 240	< 2100	R	R
1,2-Dichlorobenzene	10600	45800 J	19400 J	< 240	< 2100	35200 J	20100 J
1,3-Dichlorobenzene	< 2310	< 4840 J	R	< 240	< 2100	R	R
1,4-Dichlorobenzene	< 2310	< 4840 J	R	< 240	< 2100	R	R
1-Chloronaphthalene	< 5790	< 12100 J	R	< 590	< 5240	R	R
1-Methylnaphthalene	< 2310	< 4840 J	R	< 240	< 2100	R	R
1-Naphthylamine	< 7870	< 16500 J	R	< 800	< 7130	R	R
2,3,4,6-Tetrachlorophenol	< 4630	< 9670 J	R	< 470	< 4200	R	R
2,3-Dichloroaniline	< 2310	< 4840 J	R	< 240	< 2100	R	R
2,4,5-Trichlorophenol	< 2310	< 4840 J	R	< 240	< 2100	R	R
2,4,6-Trichlorophenol	< 2310	< 4840 J	R	< 240	< 2100	R	R
2,4-Dichlorophenol	< 2310	< 4840 J	R	< 240	< 2100	R	R
2,4-Dimethylphenol	< 2310	< 4840 J	R	< 240	< 2100	R	R
2,4-Dinitrophenol	< 14400	< 30000 J	R	< 1470	< 13000	R	R
2,4-Dinitrotoluene	< 2310	9630 J	7230 J	< 240	< 2100	R	R
2,4-Toluenediamine	< 11600	441000 J	176000 J	< 1180	< 10500	R	R
2,6-Dichlorophenol	< 2310	< 4840 J	R	< 240	< 2100	R	R
2,6-Dinitrotoluene	< 2310	< 4840 J	R	< 240	< 2100	R	R
2-Chloronaphthalene	< 2310	< 4840 J	R	< 240	< 2100	R	R
2-Chlorophenol	< 2310	< 4840 J	R	< 240	< 2100	R	R
2-Methylnaphthalene	< 2310	< 4840 J	R	< 240	< 2100	R	R
2-Naphthylamine	< 8800	< 18400 J	R	< 900	< 7970	R	R
2-Nitroaniline	< 2780	< 5800 J	R	< 280	< 2520	R	R
2-Nitrodiphenylamine	< 2310	< 4840 J	R	< 240	< 2100	R	R
2-Nitrophenol	< 2310	< 4840 J	R	< 240	< 2100	R	R
2-Picoline	< 8560	< 17900 J	R	< 880	< 7760	R	R
3,3'-Dichlorobenzidine	< 14100	< 29500 J	R	< 1440	< 12800	R	R
3-Methylcholanthrene	< 2310	< 4840 J	R	< 240	< 2100	R	R
3-Nitroaniline	< 2310	< 4840 J	R	< 240	< 2100	R	R
4,4' Methylenedianiline	42100	638000 J	111000 J	< 2080	< 18500	R	R
4,6-Dinitro-o-cresol	< 2310	< 4840 J	R	< 240	< 2100	R	R
4-Aminobiphenyl	< 2310	< 4840 J	R	< 240	< 2100	R	R
4-Aminodiphenylamine	< 5790	< 12100 J	R	< 590	< 5240	R	R
4-Bromophenyl phenyl ether	< 2310	< 4840 J	R	< 240	< 2100	R	R

LE 4.3-1
Sc ical Results for
SWMU Group B: SWMUs 5 and 6

SAMPLE ID	SM006-TB04-0001	SM006-TB04-0305	SM006-TB04-0507	SM006-TB04-1820	SM006-TB05-0001	SM006-TB05-0305	SM006-TB05-0911
SAMPLE DEPTH(ft)	0.00-1.00	3.00-5.00	5.00-7.00	18.00-20.00	0.00-1.00	3.00-5.00	9.00-11.00
SAMPLE LOCATION	TB04	TB04	TB04	TB04	TB05	TB05	TB05
SAMPLE DATE	6/18/1997	6/18/1997	6/18/1997	7/16/1997	6/16/1997	6/16/1997	6/16/1997
PARAMETER							
4-Chloro-m-cresol	< 2310	< 4840 J	R	< 240	< 2100	R	R
4-Chlorophenylphenyl ether	< 2310	< 4840 J	R	< 240	< 2100	R	R
4-Nitroaniline	< 2310	< 4840 J	R	< 240	< 2100	R	R
4-Nitrophenol	< 2310 J	< 4840 J	R	< 240 J	< 2100 J	R	R
5-Nitro-o-toluidine	< 2310	< 4840 J	R	< 240	< 2100	R	R
7,12-dimethylbenz[a]anthracene	< 2310	< 4840 J	R	< 240	< 2100	R	R
Acenaphthene	< 2310	< 4840 J	R	< 240	< 2100	R	R
Acenaphthylene	< 2310	< 4840 J	R	< 240	< 2100	R	R
Acetophenone	< 3010	< 6290 J	R	< 310	< 2730	R	R
Aniline	4880	52200 J	18600 J	< 330	< 2940	5720 J	4010 J
Anthracene	< 2310	< 4840 J	R	< 240	< 2100	R	R
Azobenzene	< 2780	< 5800 J	R	< 280	< 2520	R	R
Benzidine	< 37000	< 77400 J	R	< 3790	< 33600	R	R
Benzo(a)anthracene	< 3010	< 6290 J	R	< 310	< 2730	R	R
Benzo(a)pyrene	< 2310	< 4840 J	R	< 240	< 2100	R	R
Benzo(b)fluoranthene	< 2310	< 4840 J	R	260	< 2100	R	R
Benzo(ghi)perylene	< 2550	< 5320 J	R	< 260	< 2310	R	R
Benzo(k)fluoranthene	< 2310	< 4840 J	R	< 240	< 2100	R	R
Benzoic Acid	< 2310	< 4840 J	R	< 240	< 2100	R	R
Benzyl Alcohol	< 2310	< 4840 J	R	< 240	< 2100	R	R
Benzyl butyl phthalate	< 2310	< 4840 J	R	< 240	< 2100	R	R
Bis(2-chloroethoxymethane)	< 2310	< 4840 J	R	< 240	< 2100	R	R
Bis(2-chloroethyl)ether	< 2310	< 4840 J	R	< 240	< 2100	R	R
Bis(2-chloroisopropyl)ether	< 2310	< 4840 J	R	< 240	< 2100	R	R
Bis(2-ethylhexyl) phthalate	< 2780	< 5800 J	R	410 B	< 2520	R	R
Bisphenol A	56300	226000 J	199000 J	< 430	< 3780	122000 J	64400 J
Carbazole	< 11600	< 24200 J	R	R	< 10500	R	R
Chrysene	< 2310	< 4840 J	R	< 240	< 2100	R	R
Cyclohexanone	< 2310	< 4840 J	R	< 240	< 2100	R	R
Di-n-butyl phthalate	5420 B	7640 JB	3830 JB	720 B	16300 B	13500 JB	R
Di-n-octyl phthalate	< 2310	< 4840 J	R	< 240	< 2100	R	R
Dibenzo(a,h)anthracene	< 2310	< 4840 J	R	< 240	< 2100	R	R
Dibenzofuran	< 2310	< 4840 J	R	< 240	< 2100	R	R
Diethyl Phthalate	< 2310	< 4840 J	R	< 240	< 2100	R	R
Dimethylphthalate	< 2310	< 4840 J	R	< 240	< 2100	R	R
Ethyl Methane Sulfonate	< 4170	< 8710 J	R	< 430	< 3780	R	R
Fluoranthene	< 2310	< 4840 J	R	260	< 2100	R	R
Fluorene	< 2310 J	< 4840 J	R	< 240 J	< 2100 J	R	R
Heptachlor	< 2550	< 5320 J	R	R	< 2310	R	R
Hexachlorobenzene	< 2310	< 4840 J	R	< 240	< 2100	R	R
Hexachlorobutadiene	< 2310	< 4840 J	R	< 240	< 2100	R	R
Hexachlorocyclopentadiene	< 2310	< 4840 J	R	< 240	< 2100	R	R
Hexachloroethane	< 2310	< 4840 J	R	< 240	< 2100	R	R
Indeno(1,2,3-cd)pyrene	< 2310	< 4840 J	R	< 240	< 2100	R	R
Isophorone	< 2310	< 4840 J	R	< 240	< 2100	R	R
Methyl methane sulfonate	< 2310	< 4840 J	R	< 240	< 2100	R	R
N-Nitrosodibutylamine	< 2310	< 4840 J	R	< 240	< 2100	R	R
N-Nitrosodimethylamine	< 2310 J	< 4840 J	R	< 240 J	< 2100 J	R	R
N-Nitrosodiphenylamine	< 3010	< 6290 J	R	< 310	< 2730	R	R
N-Nitrosodipropylamine	< 2310	< 4840 J	R	< 240	< 2100	R	R
N-Nitrosopiperidine	< 2310	< 4840 J	R	< 240	< 2100	R	R
Naphthalene	< 2310	< 4840 J	R	< 240	< 2100	R	R
Nitrobenzene	< 2310	< 4840 J	R	< 240	< 2100	R	R
Pentachlorobenzene	< 3940	< 8220 J	R	< 400	< 3570	R	R

TABLE 4.3-1
Soil Analytical Results for
SWMU Group B: SWMUs 5 and 6

SAMPLE ID	SM006-TB04-0001	SM006-TB04-0305	SM006-TB04-0507	SM006-TB04-1820	SM006-TB05-0001	SM006-TB05-0305	SM006-TB05-0911
SAMPLE DEPTH(ft)	0.00-1.00	3.00-5.00	5.00-7.00	18.00-20.00	0.00-1.00	3.00-5.00	9.00-11.00
SAMPLE LOCATION	TB04	TB04	TB04	TB04	TB05	TB05	TB05
SAMPLE DATE	6/18/1997	6/18/1997	6/18/1997	7/16/1997	6/16/1997	6/16/1997	6/16/1997
PARAMETER							
Pentachloronitrobenzene	< 2310	< 4840 J	R	< 240	< 2100	R	R
Pentachlorophenol	< 2310	< 4840 J	R	< 240	< 2100	R	R
Phenacetin	< 2310	< 4840 J	R	< 240	< 2100	R	R
Phenanthrene	< 2310	< 4840 J	R	280	< 2100	R	R
Phenol	< 1390	< 2900 J	R	< 140	< 1260	R	R
Pyrene	< 2310	< 4840 J	R	< 240	< 2100	R	R
Pyridine	< 2550	< 5320 J	R	< 260	< 2310	R	R
Trimethylphosphate	< 2310	< 4840 J	R	< 240	< 2100	R	R
Triphenylphosphate	< 11600	< 24200 J	R	< 1180	< 10500	R	R
m,p-Cresol	< 3470	< 7260 J	R	< 350	< 3150	R	R
m-Nitrotoluene	< 2310	< 4840 J	R	< 240	< 2100	R	R
m-Toluidine	< 4630	< 9670 J	R	< 470	< 4200	R	R
o,p-Toluidine	< 11800	< 24700 J	R	< 1210	< 10700	R	R
o-Cresol	< 2310	< 4840 J	R	< 240	< 2100	R	R
o-Nitrotoluene	< 2310	< 4840 J	R	< 240	< 2100	R	R
p-Chloroaniline	28700	59000 J	13200 J	< 240	< 2100	11300 J	R
p-Dimethylaminoazobenzene	< 2310	< 4840 J	R	< 240	< 2100	R	R
p-Nitrotoluene	< 3470	< 7260 J	R	< 350	< 3150	R	R
Metals (µg/kg)							
Antimony	< 463	< 484	< 497	NA	< 420	< 473	< 472
Cadmium	26600	1200	1850	NA	< 420	1560	1040
Chromium	22000	16000	17600	NA	3830	14500	19200
Lead	34100	21400	14600	NA	3160	19100	22400
Nickel	1340000	129000	466000	NA	5380	91700	260000
Miscellaneous (µg/kg)							
Percent Moisture	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	NA	NA	NA	NA	NA	NA	NA
BTU from ECD	NA	NA	NA	NA	NA	NA	NA
Ignitability (Flash Point) for S	NA	NA	NA	NA	NA	NA	NA
Percent Ash	NA	NA	NA	NA	NA	NA	NA
pH in Water (Solid Sample)	NA	NA	NA	NA	NA	NA	NA

Notes:
NA=Not analyzed
B=Blank contamination
J=Estimated concentration
K=Estimated concentration (high)
L=Estimated concentration (low)
R=Rejected Data, Additional Data P
U=Nondetect at reported limit
<=Nondetect at reported limit

LE 4.3-1
Sc ical Results for
SWMU Group B: SWMUs 5 and 6

SAMPLE ID	SM006-TB05-2123	SM006-TB06-0001	SM006-TB06-0305	SM006-TB06-1315	SM006-TB07-0001	SM006-TB07-0305	SM006-TB07-1315
SAMPLE DEPTH(ft)	21.00-23.00	0.00-1.00	3.00-5.00	13.00-15.00	0.00-1.00	3.00-5.00	13.00-15.00
SAMPLE LOCATION	TB05	TB06	TB06	TB06	TB07	TB07	TB07
SAMPLE DATE	6/16/1997	11/11/1999	11/11/1999	11/11/1999	11/10/1999	11/10/1999	11/10/1999
PARAMETER							
Volatiles (µg/kg)							
1,1,1,2-Tetrachloroethane	< 305	<23	<23	<25	<24	<25	<49
1,1,1-Trichloroethane	< 159	<46	<47	<51	<48	<50	<97
1,1,2,2-Tetrachloroethane	< 159	<46	<47	<51	<48	<50	<97
1,1,2-Trichloroethane	< 305	<35	<35	<38	<36	<37	<73
1,1-Dichloroethane	< 159	<46	<47	<51	<48	<50	<97
1,1-Dichloroethene	< 305	<35	<35	<38	<36	<37	<73
1,1-Dichloropropene	< 159	<23	<23	<25	<24	<25	<49
1,2,3-Trichlorobenzene	< 159	<23	<23	<25	<24	<25	<49
1,2,3-Trichloropropane	< 159	<58	<58	<63	<59	<62	<12
1,2,4-Trichlorobenzene	< 159	<35	<35	<38	<36	48	350
1,2,4-Trimethylbenzene	< 159	<23	<23	<25	<24	<25	<49
1,2-Dibromo-3-chloropropane	< 305	<100	<100	<110	<110	<110	<220
1,2-Dibromoethane	< 159	<46	<47	<51	<48	<50	<97
1,2-Dichlorobenzene	928	240	580	450	770	5500	7000
1,2-Dichloroethane	< 305	<12	<12	<13	<12	<12	<24
1,2-Dichloropropane	< 464	<35	<35	<38	<36	<37	<73
1,3,5-Trimethylbenzene	< 159	<23	<23	<25	<24	<25	<49
1,3-Dichlorobenzene	< 305	<35	<35	<38	<36	<37	<73
1,3-Dichloropropane	< 159	<46	<47	<51	<48	<50	<97
1,4-Dichlorobenzene	< 305	36	72	35	59	760	3000
2,2-Dichloropropane	< 159	<58	<58	<63	<59	<62	<1200
2-Butanone	< 1070	<23	<23	<25	<140	<150	<290
2-Chloroethyl Vinyl Ether	< 305	<58	<58	<63	<59	<62	<120
2-Chlorotoluene	< 159	<23	<23	<25	<24	<25	<49
2-Hexanone	< 464	<58	<58	<63	<59	<62	<120
4-Chlorotoluene	< 159	<35	<35	<38	<36	<37	<73
4-Methyl-2-pentanone	< 464	<140	<140	<150	<59	<62	<120
Acetone	< 1070	<360	<360	<390	<370	<380	<760
Acrolein	< 3050	<69	<70	<76	<71	<74	<150
Acrylonitrile	< 1590	<58	<58	<63	<59	<62	<120
Allyl Chloride	< 159	NA	NA	NA	NA	NA	NA
Benzene	< 159	<23	<23	<25	<24	<25	180
Bromobenzene	< 159	<35	<35	<38	<36	<37	<73
Bromochloromethane	< 159	<35	<35	<38	<36	<37	<73
Bromodichloromethane	< 305	<23	<23	<25	<24	<25	<49
Bromoform	< 159	<58	<58	<63	<59	<62	<120
Bromomethane	< 464	<35	<35	<38	<36	<37	<73
Carbon Disulfide	< 464	<12	<12	<13	<12	<12	<24
Carbon Tetrachloride	< 159	<35	<35	<38	<36	<37	<73
Chlorobenzene	1590	180	570	29	300	2400	24000
Chloroethane	< 464	<100	<100	<110	<110	<11	<220
Chloroform	< 159	<35	<35	<38	<36	<37	<73
Chloromethane	< 305	<23	<23	<25	<24	<25	<49
Dibromochloromethane	< 159	<58	<58	<63	<59	<62	<120
Dibromomethane	< 159	<58	<58	<63	<59	<62	<120
Dichlorodifluoromethane	< 305	<58	<58	<63	<59	<62	<120
Ethyl Methacrylate	< 159	<35	<35	<38	<36	<37	<73
Ethylbenzene	< 159	<12	<12	<13	<12	<12	<24
Freon 113	549 J	NA	NA	NA	NA	NA	NA
Freon 141b	< 159	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	< 305	<58	<58	<63	<59	<62	<120
Isopropylbenzene	< 464	<12	<12	<13	<12	<12	<24
Methyl Iodide	< 464	<58	<58	<63	<24	<25	<49
Methylene Chloride	< 305	<23	<23	<25	<24	<25	<49

TABLE 4.3-1
Soil Analytical Results for
SWMU Group B: SWMUs 5 and 6

SAMPLE ID	SM006-TB05-2123	SM006-TB06-0001	SM006-TB06-0305	SM006-TB06-1315	SM006-TB07-0001	SM006-TB07-0305	SM006-TB07-1315
SAMPLE DEPTH(ft)	21.00-23.00	0.00-1.00	3.00-5.00	13.00-15.00	0.00-1.00	3.00-5.00	13.00-15.00
SAMPLE LOCATION	TB05	TB06	TB06	TB06	TB07	TB07	TB07
SAMPLE DATE	6/16/1997	11/11/1999	11/11/1999	11/11/1999	11/10/1999	11/10/1999	11/10/1999
PARAMETER							
Naphthalene	< 159	<12	<12	<13	<12	<12	<24
Styrene	< 159	<35	<35	<38	<36	<37	<73
Tetrachloroethene	< 159	<290	<290	<320	<300	<310	<61
Toluene	< 159	<23	<23	<25	<24	<25	<49
Trichloroethene	< 159	<46	<47	<51	<48	61	<97
Trichlorofluoromethane	< 305	<58	<58	<63	<59	<62	<120
Vinyl Acetate	< 464	<280	<280	<300	<290	<300	<580
Vinyl Chloride	< 305	<35	<35	<38	<36	<37	<73
cis-1,2-Dichloroethene	< 305	<23	<23	<25	<24	<25	<49
cis-1,3-Dichloropropene	< 159	<35	<35	<38	<36	<37	<73
m+p-Xylene	< 159	<35	<35	<38	<36	<37	<73
n-Butylbenzene	< 159	<23	<23	<25	<24	<25	<49
n-Propylbenzene	< 159	<23	<23	<25	<24	<25	<49
o-Xylene	< 159	<35	<35	<38	<36	<37	<73
p-Isopropyltoluene	< 159	<23	<23	<25	<24	29	410
sec-Butylbenzene	< 159	<12	<12	<13	<12	<12	<24
tert-Butylbenzene	< 159	<23	<23	<25	<24	<25	<49
trans-1,2-Dichloroethene	< 305	<35	<35	<38	<36	<37	<73
trans-1,3-Dichloropropene	< 159	<35	<35	<38	<36	<37	<73
trans-1,4-Dichloro-2-butene	< 1590	<46	<47	<51	<48	<50	<97
Semivolatiles (µg/kg)							
1,2,3-Trichlorobenzene	R	< 120	<120	<130	<120	<1200	<1200
1,2,4,5-Tetrachlorobenzene	R	<130	<130	<140	<130	<1400	<1300
1,2,4-Trichlorobenzene	R	<120	<120	<130	<120	<1200	<1200
1,2-Dichlorobenzene	R	810	4200	<110	1900	16000	21000
1,3-Dichlorobenzene	R	<92	<93	<100	<95	<990	<97
1,4-Dichlorobenzene	R	130	500	<110	350	2400	5400
1-Chloronaphthalene	R	<100	<100	<110	<110	<1100	<1100
1-Methylnaphthalene	R	<120	<120	130	<120	<1200	<1200
1-Naphthylamine	R	<890	<900	<97	<920	<9500	<9400
2,3,4,6-Tetrachlorophenol	R	<92	<93	<100	<95	<990	<970
2,3-Dichloroaniline	R	<120	<120	<130	<120	<1200	<1200
2,4,5-Trichlorophenol	R	<92	<93	<100	<95	<990	<970
2,4,6-Trichlorophenol	R	<120	<120	<130	<120	<1200	<1200
2,4-Dichlorophenol	R	<130	<130	<140	<130	<1400	<1300
2,4-Dimethylphenol	R	<130	<130	<140	<130	<1400	<1300
2,4-Dinitrophenol	R	<810	<820	<89	<830	<8700	<8500
2,4-Dinitrotoluene	R	260	990	<110	350	<1100	<1100
2,4-Toluenediamine	R	<3500	<3500	<3800	<3600	<38000	4600UJ
2,6-Dichlorophenol	R	<130	<130	<140	<130	<1400	<1300
2,6-Dinitrotoluene	R	<130	260	<140	<130	<1400	<1300
2-Chloronaphthalene	R	<130	<130	<140	<130	<1400	<1300
2-Chlorophenol	R	<100	<100	<110	<110	<1100	<1100
2-Methylnaphthalene	R	<120	<120	150	120	<1200	<1200
2-Naphthylamine	R	<720	<720	<780	<740	<7700	<7600
2-Nitroaniline	R	<120	<120	<130	<120	<1200	<1200
2-Nitrodiphenylamine	R	<92	<93	<100	<95	<990	<970
2-Nitrophenol	R	<100	<100	<110	<110	1100	<1100
2-Picoline	R	<100	<100	<110	<110	<1100	<1100
3,3'-Dichlorobenzidine	R	<280	<280	<300	290	<3000	<2900
3-Methylcholanthrene	R	<130	<130	<140	<130	<1400	<1300
3-Nitroaniline	R	<69	<70	<76	75	<740	<730
4,4' Methylenedianiline	R	<1500	<1500	<1600	<1500	<160	<15000
4,6-Dinitro-o-cresol	R	<390	<400	<430	<400	<420	<4100
4-Aminobiphenyl	R	<570	<570	<62	<580	<610	<6000
4-Aminodiphenylamine	R	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	R	<130	<130	<140	<130	<140	<1300

LE 4.3-1
Sc ical Results for
SWMU Group B: SWMUs 5 and 6

SAMPLE ID	SM006-TB05-2123	SM006-TB06-0001	SM006-TB06-0305	SM006-TB06-1315	SM006-TB07-0001	SM006-TB07-0305	SM006-TB07-1315
SAMPLE DEPTH(ft)	21.00-23.00	0.00-1.00	3.00-5.00	13.00-15.00	0.00-1.00	3.00-5.00	13.00-15.00
SAMPLE LOCATION	TB05	TB06	TB06	TB06	TB07	TB07	TB07
SAMPLE DATE	6/16/1997	11/11/1999	11/11/1999	11/11/1999	11/10/1999	11/10/1999	11/10/1999
PARAMETER							
4-Chloro-m-cresol	R	<150	<150	<160	<150	<160	<1600
4-Chlorophenylphenyl ether	R	<120	<120	<130	<120	<120	<1200
4-Nitroaniline	R	<92	<93	<100	<95	<990	<970
4-Nitrophenol	R	<360	<360	<390	<370	<3800	<3800
5-Nitro-o-toluidine	R	<100	<100	<110	<110	<1100	<1100
7,12-dimethylbenz[a]anthracene	R	<160	<160	<180	<170	<1700	<1700
Acenaphthene	R	<130	<130	<140	<130	<1400	<1300
Acenaphthylene	R	<130	<130	<140	<130	<1400	<1300
Acetophenone	R	<100	<130	<110	<110	<1100	<1100
Aniline	R	<510	730	<560	<520	<5500	<5400
Anthracene	R	<100	<100	<110	<110	<1100	<1100
Azobenzene	R	<130	<130	<140	<130	<1400	<1300
Benzidine	R	<1500	<1500	<1600	<1500	<16000	<15000
Benzo(a)anthracene	R	<130	<130	<140	<130	<1400	<1300
Benzo(a)pyrene	R	<130	<130	<140	<130	<1400	<1300
Benzo(b)fluoranthene	R	<100	<100	<110	<110	<1100	<1100
Benzo(ghi)perylene	R	<210	<210	<230	<210	<2200	<2200
Benzo(k)fluoranthene	R	<140	<140	<150	<140	<1500	<1500
Benzoic Acid	R	<1300	<1300	<1400	<1300	<14000	<13000
Benzyl Alcohol	R	<100	<100	<110	<110	<1100	<1100
Benzyl butyl phthalate	R	<120	<120	<130	<120	<1200	<1200
Bis(2-chloroethoxymethane)	R	<120	<120	<130	<120	<1200	<1200
Bis(2-chloroethyl)ether	R	<100	<100	<110	<110	<1100	<1100
Bis(2-chloroisopropyl)ether	R	<100	<100	<110	<110	<1100	<1100
Bis(2-ethylhexyl) phthalate	1000 JB	<130	<130	<140	<130	<1400	<1300
Bisphenol A	R	3400	7500	260	6900	38000	110000
Carbazole	R	<81	<82	<89	<83	<870	<850
Chrysene	R	<130	<130	<140	170	<1400	<1300
Cyclohexanone	R	<58	<58	<63	<59	<620	<610
Di-n-butyl phthalate	R	<100	230UB	150UB	<110	<110	<1100
Di-n-octyl phthalate	R	<140	<140	<150	<140	<1500	<1500
Dibenzo(a,h)anthracene	R	<150	<150	<160	<150	<1600	<1600
Dibenzofuran	R	<100	<100	<110	<110	<1100	<1100
Diethyl Phthalate	R	<100	<100	<110	140	<1100	<1100
Dimethylphthalate	R	<100	<100	<110	150	<1100	<1100
Ethyl Methane Sulfonate	R	<92	<93	<100	<95	<990	<970
Fluoranthene	R	<120	<120	210	180	<1200	<1200
Fluorene	R	<130	<130	<140	<130	<1400	<1300
Heptachlor	R	<92	<93	<100	<95	<990	<970
Hexachlorobenzene	R	<160	<160	<180	<170	<1700	<1700
Hexachlorobutadiene	R	<100	<100	<110	<110	<1100	<1100
Hexachlorocyclopentadiene	R	<1600	<1600	<1700	<1600	<17000	<16000
Hexachloroethane	R	<100	<100	<110	<110	<1100	<1100
Indeno(1,2,3-cd)pyrene	R	<160	<160	<180	<170	<1700	<1700
Isophorone	R	<140	<140	<150	<140	<1500	<1500
Methyl methane sulfonate	R	<120	<120	<130	<120	<1200	<1200
N-Nitrosodibutylamine	R	<140	<140	<150	<140	<1500	<1500
N-Nitrosodimethylamine	R	<100	<100	<110	<110	<1100	<1100
N-Nitrosodiphenylamine	R	<320	<330	<350	<330	<3500	<3400
N-Nitrosodipropylamine	R	<100	<100	<110	<110	<1100	<1100
N-Nitrosopiperidine	R	<120	<120	<130	<120	<1200	<1200
Naphthalene	R	<120	<120	190	<120	<1200	<1200
Nitrobenzene	R	190	110	<110	<110	<1100	<1100
Pentachlorobenzene	R	<130	<130	<140	<130	<1400	<1300

TABLE 4.3-1
Soil Analytical Results for
SWMU Group B: SWMUs 5 and 6

SAMPLE ID	SM006-TB05-2123	SM006-TB06-0001	SM006-TB06-0305	SM006-TB06-1315	SM006-TB07-0001	SM006-TB07-0305	SM006-TB07-1315
SAMPLE DEPTH(ft)	21.00-23.00	0.00-1.00	3.00-5.00	13.00-15.00	0.00-1.00	3.00-5.00	13.00-15.00
SAMPLE LOCATION	TB05	TB06	TB06	TB06	TB07	TB07	TB07
SAMPLE DATE	6/16/1997	11/11/1999	11/11/1999	11/11/1999	11/10/1999	11/10/1999	11/10/1999
PARAMETER							
Pentachloronitrobenzene	R	<81	<82	<89	<83	<870	<850
Pentachlorophenol	R	<290	<290	<320	<300	<3100	<3000
Phenacetin	R	<100	<100	<110	<110	<1100	<1100
Phenanthrene	R	<120	<120	210	<120	<1200	<1200
Phenol	R	<120	140	<130	<120	<1200	<1200
Pyrene	R	<130	<130	170	140	<1400	<1300
Pyridine	R	<100	<100	<110	<110	<1100	<1100
Trimethylphosphate	R	<100	<100	<110	<110	<1100	<1100
Triphenylphosphate	R	<150	<150	<160	<150	<1600	<1600
m,p-Cresol	R	<210	<210	<230	<210	<2200	<2200
m-Nitrotoluene	R	<120	<120	<130	<120	<1200	<1200
m-Toluidine	R	<92	<93	<100	<95	<990	<970
o,p-Toluidine	R	92	100	<89	<83	<870	1600
o-Cresol	R	<92	<93	<100	<95	<990	<970
o-Nitrotoluene	R	<130	190	<140	<130	<1400	<1300
p-Chloroaniline	R	610	9700	<100	450	1600	3700
p-Dimethylaminoazobenzene	R	<150	<150	<160	<130	<1600	<1600
p-Nitrotoluene	R	<100	<100	<110	<110	<1100	<1100
Metals (µg/kg)							
Antimony	< 488	<2.31	3.81	3.94	3.23	<2.48	2.55
Cadmium	< 490	<0.578	0.699	1.33	1.64	1.61	2.61
Chromium	18900	6.66	7.53	17.3	7.13	7.41	10.4
Lead	20900	18.4	20.9	52	25.3	30	38.5
Nickel	66500	30.6	54.9	15.2	32.7	193	<1.22
Miscellaneous (µg/kg)							
Percent Moisture	NA	13.5%	14.2%	21.0%	15.9%	19.3%	17.9%
Total Organic Carbon	NA	NA	NA	NA	NA	NA	NA
BTU from ECD	NA	NA	NA	NA	NA	NA	NA
Ignitability (Flash Point) for S	NA	NA	NA	NA	NA	NA	NA
Percent Ash	NA	NA	NA	NA	NA	NA	NA
pH in Water (Solid Sample)	NA	NA	NA	NA	NA	NA	NA

Notes:
NA=Not analyzed
B=Blank contamination
J=Estimated concentration
K=Estimated concentration (high)
L=Estimated concentration (low)
R=Rejected Data, Additional Data P
U=Nondetect at reported limit
<=Nondetect at reported limit

LE 4.3-2
Summary of Field Observations
SWMU Group B: SWMU 5 and 6

Boring Number	SM005-							
	TB01	TB02	TB03	TB04	TB05	TB06	TB07	TB08
Concrete/Asphalt (ft-bgs)[1]			0-0.5	0-0.5				
Gravel (ft-bgs)	0-1.5	0-1	0.5-2	0.5-1.5		0-1	0-12	0-0.5
Silty Sand (ft-bgs)	1.5-8.5	1-4	2-8	1.5-3	0-11 / 26-32	1-17		0.5-16
TDI Residue (SWMU 5) / Debris (SWMU 6) (ft-bgs)	8-9	4-12	8-14	3-17	11-17			
Silt/Clay (ft-bgs)	11-17	15-21	14-18		17-26		12-17	
Perched Groundwater (ft-bgs)		8.8			15		5	
Groundwater (ft-bgs)	16.6	20.9	16.6	16.5	30	10.1		13.6
Total Depth (ft-bgs)	17	21	18	17	32	17	17	16
OVM Readings (ppm(2) @ ft-bgs)	21 @ 3-5 40 @ 8.5	389 @ 4-5 682 @ 5-9 60.2 @ 15-17		26 @ 3-5 1.2 @ 9 23 @ 12	42 @ 7-9 40 @ 22-24	2.3 @ 3-5		44 @ 4-5 10 @ 9-10 49.7 @ 11.6-13.6
Additional Observations					Tar-like substance from 11-13 ft-bgs			Partially decomposed wood at 12-13 ft bgs

NOTES:

(1) ft-bgs = Feet Below Ground Surface

(2) NR = No Recovery

(3) OVM = Organic Vapor Monitor

(4) ppm = Parts per Million

TABLE 4.3-2
Summary of Field Observations
SWMU Group B: SWMU 5 and 6

Boring Number	SM005-							
	TB09	TB10	TB11	TB11	TB12	TB13	TB14	TB15
Concrete/Asphalt (ft-bgs)[1]	0-0.5	0-0.5						0-0.5
Gravel (ft-bgs)			0-7.5	0-0.5			12-13.5	0.5-1
Silty Sand (ft-bgs)	0.5-5	0-6.5			8-20	0-4 / 12.5-16	13.5-20	1-4 / 5.5-6.5
TDI Residue (SWMU 5) / Debris (SWMU 6) (ft-bgs)	5-13	6.5-8.5				12.5-16	11.5-12	1.75-2.25 / 4-5.5 / 6.5-16
Silt/Clay (ft-bgs)		8.5-20		0.5-5	0-8	4-12.5	0-11.5	
Perched Groundwater (ft-bgs)		13						
Groundwater (ft-bgs)	9	19.3			20	16	16	15
Total Depth (ft-bgs)	13	21	7.5 (refusal)	5	20	16	20	16
OVM Readings (ppm(2) @ ft-bgs)	10 @ 0-1 12 @ 3-5 32 @ 7-9	326 @ 3-5 425 @ 5-7 426 @ 9-13 30.8 @ 15-16		0 @ 0-5	18 @ 0-4 97 @ 4-5 1700 @ 5-8 63 @ 8-12 110 @ 12-16 510 @ 16-20	0 @ 0-4 0 @ 4-8 50 @ 8-12 101 @ 12-16	0 @ 0-4 7 @ 4-8 672 @ 8-12 561 @ 12-16	2 @ 0-4 3 @ 4-8 2 @ 8-12 3 @ 12-16
Additional Observations	Partially decomposed wood at 5 ft bgs							

NOTES:

(1) ft-bgs = Feet Below Ground Surface

(2) NR = No Recovery

(3) OVM = Organic Vapor Monitor

(4) ppm = Parts per Million

LE 4.3-2
Summary of Field Observations
SWMU Group B: SWMU 5 and 6

Boring Number	SM006-						
	TB01	TB02	TB03	TB04	TB05	TB06	TB07
Concrete/Asphalt (ft-bgs)[1]					0-0.5	0-0.5	
Gravel (ft-bgs)		0.5-7 / 8-9				0.5-1	
Silty Sand (ft-bgs)	0.5-5	11.5-17	3-5	0.5-5		1-12	
TDI Residue (SWMU 5) / Debris (SWMU 6) (ft-bgs)	9	13	5	5-7	5-9.5		
Silt/Clay (ft-bgs)	9-25	7-8 / 9-25	9-21	5-13	2.5-25	12-16	0-16
Perched Groundwater (ft-bgs)				7			
Groundwater (ft-bgs)	23	23	19	20	23.4	15	15
Total Depth (ft-bgs)	25	25	21	21	25	16	16
OVM Readings (ppm(2) @ ft-bgs)	62 @ 7-9 135 @ 11-13 12 @ 15-17 2.8 @ 20-21	40.9 @ 7-9 10.2 @ 9-10 68.9 @ 15-17	243 @ 3-5 343 @ 5-9 28.1 @ 9-13 367 @ 13-17 264 @ 17-21	21 @ 3-5 40 @ 7	24 @ 3-5 40 @ 7-9 127 @ 9-11	0 @ 0-8 3 @ 8-12 0 @ 12-16	0 @ 0-12 6 @ 12-16
Additional Observations							

NOTES:

(1) ft-bgs = Feet Below Ground Surface

(2) NR = No Recovery

(3) OVM = Organic Vapor Monitor

(4) ppm = Parts per Million

TABLE 4.3-3
Screening of Total Soils to Risk-Based Screening Criteria: SWMU Group B

Constituent	CAS Number	Units	Frequency of Detection	Range of Detections	Sample of Maximum Detection	Range of Detection Limits	Sample of Maximum Detection Limit	Region III Industrial Soil RBC[1]	Region III Residential Soil RBC[1]	Maximum Detection or Detection Limit Exceeds Industrial RBC	Maximum Detection or Detection Limit Exceeds Residential RBC
METALS											
Nickel	7440-02-0	mg/kg	49 - 51	2.72 - 10400	SM005-TB04-1617	0.44 - 0.5	SM005-TB08-0305	4.1E+04	1.6E+03	No	Max. Det.>Res RBC
PESTICIDES/HERBICIDES											
Heptachlor	76-44-8	mg/kg	0 - 46	NA		0.09 - 722	SM005-TB10-0911	1.3E+00	1.4E-01	Max. D.L. >RBC	Max. D.L. >Res RBC
SEMIVOLATILE ORGANIC COMPOUNDS											
1,2,3-Trichlorobenzene	87-61-6	mg/kg	0 - 45	NA		0.26 - 787	SM005-TB10-0911	2.0E+04	7.8E+02	No	Max. D.L. >Res RBC
1,2,4,5-Tetrachlorobenzene	95-94-3	mg/kg	0 - 47	NA		0.13 - 787	SM005-TB10-0911	6.1E+02	2.3E+01	Max. D.L. >RBC	Max. D.L. >Res RBC
1,3-Dichlorobenzene	541-73-1	mg/kg	1 - 45	95 - 95	SM006-TB03-0305	0.22 - 656	SM005-TB10-0911	1.8E+03	1.7E+01	No	Max. Det. & D.L. > Res RBC
1,4-Dichlorobenzene	106-46-7	mg/kg	10 - 46	0.46 J - 95	SM006-TB03-0305	0.22 - 656	SM005-TB10-0911	2.4E+02	2.7E+01	Max. D.L. >RBC	Max. Det. & D.L. > Res RBC
2,4,6-Trichlorophenol	88-06-2	mg/kg	0 - 45	NA		0.11 - 656	SM005-TB10-0911	5.2E+02	5.8E+01	Max. D.L. >RBC	Max. D.L. >Res RBC
2,4-Dichlorophenol	120-83-2	mg/kg	0 - 45	NA		0.13 - 656	SM005-TB10-0911	6.1E+03	2.3E+02	No	Max. D.L. >Res RBC
2,4-Dinitrophenol	51-28-5	mg/kg	0 - 45	NA		0.8 - 4070	SM005-TB10-0911	4.1E+03	1.6E+02	No	Max. D.L. >Res RBC
2,4-Dinitrotoluene	121-14-2	mg/kg	17 - 51	0.29 - 399	SM006-TB03-1315	0.1 - 656	SM005-TB10-0911	4.1E+03	1.6E+02	No	Max. Det. & D.L. > Res RBC
2,4-Toluenediamine	95-80-7	mg/kg	21 - 45	12.5 J - 73,500 J	SM005-TB05-1315	1.1 - 115	SM005-TB02-0305	1.8E+00	2.0E-01	Max. Det. & D.L. > RBC	Max. Det. & D.L. > Res RBC
2,6-Dichlorophenol	87-65-0	mg/kg	0 - 45	NA		0.13 - 656	SM005-TB10-0911	6.1E+03	2.3E+02	No	Max. D.L. >Res RBC
2,6-Dinitrotoluene	606-20-2	mg/kg	8 - 49	0.25 J - 94.8	SM005-TB01-0305	0.13 - 656	SM005-TB10-0911	2.0E+03	7.8E+01	No	Max. Det. & D.L. > Res RBC
2-Chlorophenol	95-57-8	mg/kg	0 - 45	NA		0.1 - 656	SM005-TB10-0911	1.0E+04	3.9E+02	No	Max. D.L. >Res RBC
2-Nitrophenol	88-75-5	mg/kg	0 - 45	NA		0.1 - 656	SM005-TB10-0911	1.6E+04	6.3E+02	No	Max. D.L. >Res RBC
3,3'-Dichlorobenzidine	91-94-1	mg/kg	0 - 47	NA		0.27 - 4000	SM005-TB10-0911	1.3E+01	1.4E+00	Max. D.L. >RBC	Max. D.L. >Res RBC
4,6-Dinitro-o-cresol	534-52-1	mg/kg	0 - 45	NA		0.22 - 656	SM005-TB10-0911	2.0E+02	7.8E+00	Max. D.L. >RBC	Max. D.L. >Res RBC
4-Nitrophenol	100-02-7	mg/kg	0 - 45	NA		0.22 - 656	SM005-TB10-0911	1.6E+04	6.3E+02	No	Max. D.L. >Res RBC
4-Nitrotoluene	99-99-0	mg/kg	11 - 49	0.15 - 28.3 J	SM005-TB02-0509	0.1 - 984	SM005-TB10-0911	2.0E+04	7.8E+02	No	Max. D.L. >Res RBC
5-Nitro-o-toluidine	99-55-8	mg/kg	13 - 50	0.12 - 65.7 J	SM005-TB10-0507	0.1 - 656	SM005-TB10-0911	1.7E+02	1.9E+01	Max. D.L. >RBC	Max. Det. & D.L. > Res RBC
Aniline	62-53-3	mg/kg	27 - 53	0.47 - 557 J	SM005-TB04-0305	0.31 - 289	SM005-TB05-1315	1.0E+03	1.1E+02	No	Max. Det. & D.L. > Res RBC
Azobenzene	103-33-3	mg/kg	0 - 47	NA		0.13 - 787	SM005-TB10-0911	5.2E+01	5.8E+00	Max. D.L. >RBC	Max. D.L. >Res RBC
Benzidine	92-87-5	mg/kg	0 - 47	NA		1.4 - 10500	SM005-TB10-0911	2.5E-02	3.0E-03	Max. D.L. >RBC	Max. D.L. >Res RBC
Benzo(a)anthracene	56-55-3	mg/kg	0 - 47	NA		0.13 - 853	SM005-TB10-0911	7.8E+00	8.8E-01	Max. D.L. >RBC	Max. D.L. >Res RBC
Benzo(a)pyrene	50-32-8	mg/kg	2 - 47	0.23 - 22.7	SM006-TB03-1719	0.13 - 656	SM005-TB10-0911	7.8E-01	8.7E-02	Max. Det. & D.L. > RBC	Max. Det. & D.L. > Res RBC
Benzo(b)fluoranthene	205-99-2	mg/kg	3 - 47	0.26 - 99.2	SM005-TB04-1617	0.1 - 656	SM005-TB10-0911	7.8E+00	8.8E-01	Max. Det. & D.L. > RBC	Max. Det. & D.L. > Res RBC
Benzo(k)fluoranthene	207-08-9	mg/kg	2 - 47	13.4 J - 28.7	SM006-TB03-1719	0.14 - 587	SM005-TB10-0507	7.8E+01	8.8E+00	Max. D.L. >RBC	Max. Det. & D.L. > Res RBC
bis(2-Chloroethyl)ether	111-44-4	mg/kg	1 - 48	0.5 J - 0.5 J	SM006-TB01-1113	0.1 - 656	SM005-TB10-0911	5.2E+00	5.8E-01	Max. D.L. >RBC	Max. D.L. >Res RBC
bis(2-Chloroisopropyl)ether	108-60-1	mg/kg	1 - 47	71.5 - 71.5	SM006-TB03-0305	0.1 - 656	SM005-TB10-0911	8.2E+01	9.1E+00	Max. D.L. >RBC	Max. Det. & D.L. > Res RBC
bis(2-Ethylhexyl) phthalate	117-81-7	mg/kg	14 - 51	0.41 B - 1.71 B	SM005-TB05-2830	0.13 - 787	SM005-TB10-0911	4.1E+02	4.6E+01	Max. D.L. >RBC	Max. D.L. >Res RBC
Carbazole	86-74-8	mg/kg	0 - 46	NA		0.08 - 3280	SM005-TB10-0911	2.9E+02	3.2E+01	Max. D.L. >RBC	Max. D.L. >Res RBC
Chrysene	218-01-9	mg/kg	1 - 47	0.26 - 0.26	SM005-TB07-0001	0.13 - 656	SM005-TB10-0911	7.8E+02	8.7E+01	No	Max. D.L. >Res RBC
Dibenz(a,h)anthracene	53-70-3	mg/kg	0 - 47	NA		0.15 - 656	SM005-TB10-0911	7.8E-01	8.7E-02	Max. D.L. >RBC	Max. D.L. >Res RBC
Dibenzofuran	132-64-9	mg/kg	0 - 47	NA		0.1 - 656	SM005-TB10-0911	8.2E+03	3.1E+02	No	Max. D.L. >Res RBC
Hexachlorobenzene	118-74-1	mg/kg	0 - 47	NA		0.16 - 656	SM005-TB10-0911	3.6E+00	4.0E-01	Max. D.L. >RBC	Max. D.L. >Res RBC
Hexachlorobutadiene	87-68-3	mg/kg	0 - 45	NA		0.22 - 656	SM005-TB10-0911	7.3E+01	8.2E+00	Max. D.L. >RBC	Max. D.L. >Res RBC
Hexachlorocyclopentadiene	77-47-4	mg/kg	0 - 47	NA		0.22 - 656	SM005-TB10-0911	1.4E+04	5.5E+02	No	Max. D.L. >Res RBC
Hexachloroethane	67-72-1	mg/kg	0 - 47	NA		0.1 - 656	SM005-TB10-0911	4.1E+02	4.6E+01	Max. D.L. >RBC	Max. D.L. >Res RBC
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	0 - 47	NA		0.16 - 656	SM005-TB10-0911	7.8E+00	8.8E-01	Max. D.L. >RBC	Max. D.L. >Res RBC
m,p-Cresol	108-39-4	mg/kg	1 - 45	8610 - 8610	SM006-TB03-0305	0.2 - 984	SM005-TB10-0911	1.0E+05	3.9E+03	No	Max. Det.>Res RBC
m-Toluidine	108-44-1	mg/kg	1 - 47	63.6 - 63.6	SM005-TB10-1719	0.09 - 1310	SM005-TB10-0911	3.0E+01	3.4E+00	Max. Det. & D.L. > RBC	Max. Det. & D.L. > Res RBC
Nitrobenzene	98-95-3	mg/kg	11 - 49	0.29 - 107	SM005-TB09-0709	0.1 - 656	SM005-TB10-0911	1.0E+03	3.9E+01	No	Max. Det. & D.L. > Res RBC
N-Nitrosodibutylamine	924-16-3	mg/kg	0 - 47	NA		0.14 - 656	SM005-TB10-0911	1.1E+00	1.2E-01	Max. D.L. >RBC	Max. D.L. >Res RBC
N-Nitrosodimethylamine	62-75-9	mg/kg	0 - 47	NA		0.1 - 656	SM005-TB10-0911	1.1E-01	1.3E-02	Max. D.L. >RBC	Max. D.L. >Res RBC
n-Nitroso-di-n-propylamine	621-64-7	mg/kg	0 - 47	NA		0.1 - 656	SM005-TB10-0911	8.2E-01	9.1E-02	Max. D.L. >RBC	Max. D.L. >Res RBC
n-Nitrosodiphenylamine	86-30-6	mg/kg	1 - 47	6.26 - 6.26	SM005-TB10-1719	0.29 - 853	SM005-TB10-0911	1.2E+03	1.3E+02	No	Max. D.L. >Res RBC
o,p-Toluidine	106-49-0	mg/kg	3 - 45	50.5 - 99.8	SM006-TB03-0507	0.08 - 3350	SM005-TB10-0911	3.0E+01	3.4E+00	Max. Det. & D.L. > RBC	Max. Det. & D.L. > Res RBC
p-Chloroaniline	106-47-8	mg/kg	31 - 52	0.24 - 320 J	SM005-TB05-1315	0.09 - 23	SM005-TB02-0305	8.2E+03	3.1E+02	No	Max. Det.>Res RBC
Pentachlorobenzene	608-93-5	mg/kg	0 - 47	NA		0.13 - 1120	SM005-TB10-0911	1.6E+03	6.3E+01	No	Max. D.L. >Res RBC
Pentachloronitrobenzene	82-68-8	mg/kg	0 - 47	NA		0.08 - 656	SM005-TB10-0911	2.2E+01	2.5E+00	Max. D.L. >RBC	Max. D.L. >Res RBC
Pentachlorophenol	87-86-5	mg/kg	0 - 45	NA		0.22 - 656	SM005-TB10-0911	4.8E+01	5.3E+00	Max. D.L. >RBC	Max. D.L. >Res RBC
Pyridine	110-86-1	mg/kg	0 - 47	NA		0.1 - 722	SM005-TB10-0911	2.0E+03	7.8E+01	No	Max. D.L. >Res RBC
Trimethylphosphate	512-56-1	mg/kg	0 - 47	NA		0.1 - 656	SM005-TB10-0911	1.5E+02	1.7E+01	Max. D.L. >RBC	Max. D.L. >Res RBC
VOLATILE ORGANIC COMPOUNDS											
1,1-Dichloroethene	75-35-4	mg/kg	0 - 63	NA		0.262 - 5.84	SM006-TB03-0305	9.5E+00	1.1E+00	No	Max. D.L. >Res RBC
1,2,3-Trichloropropane	96-18-4	mg/kg	0 - 63	NA		0.136 - 2.92	SM006-TB03-0305	8.2E-01	9.1E-02	Max. D.L. >RBC	Max. D.L. >Res RBC
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	0 - 63	NA		0.262 - 5.84	SM006-TB03-0305	4.1E+00	4.6E-01	Max. D.L. >RBC	Max. D.L. >Res RBC
1,2-Dibromoethane	106-93-4	mg/kg	0 - 63	NA		0.136 - 2.92	SM006-TB03-0305	6.7E-02	8.0E-03	Max. D.L. >RBC	Max. D.L. >Res RBC
Acrylonitrile	107-13-1	mg/kg	0 - 63	NA		1.36 - 29.2	SM006-TB03-0305	1.1E+01	1.2E+00	Max. D.L. >RBC	Max. D.L. >Res RBC
Vinyl Chloride	75-01-4	mg/kg	0 - 63	NA		0.262 - 5.84	SM006-TB03-0305	3.0E+00	3.4E-01	Max. D.L. >RBC	Max. D.L. >Res RBC

[1] Industrial and Residential RBCs for Soil (USEPA, 1999)

TABLE 4.3-4

Screening of Soils to Total USEPA Leaching Soil Screening Levels: SWMU Group B

Constituent	CAS Number	Units	Frequency of Detection	Range of Detections	Sample of Maximum Detection	Range of Detection Limits	Sample of Maximum Detection Limit	Soil Screening Level[1] 20 DAF	Maximum Detection or Detection Limit Exceeds RBC
METALS									
Cadmium	7440-43-9	mg/kg	39 - 51	0.61 - 26.6	SM006-TB04-0001	0.42 - 0.5	SM005-TB08-0305	8.0E+00	Max. Det.>SSL
Nickel	7440-02-0	mg/kg	49 - 51	2.72 - 10400	SM005-TB04-1617	0.44 - 0.5	SM005-TB08-0305	1.3E+02	Max. Det.>SSL
PESTICIDES/HERBICIDES									
Heptachlor	76-44-8	mg/kg	0 - 46	NA		0.09 - 722	SM005-TB10-0911	2.3E+01	Max. D.L. >SSL
SEMIVOLATILE ORGANIC COMPOUNDS									
1,2,3-Trichlorobenzene	87-61-6	mg/kg	0 - 45	NA		0.26 - 787	SM005-TB10-0911	5.0E+00	Max. D.L. >SSL
1,2,4-Trichlorobenzene	120-82-1	mg/kg	0 - 45	NA		0.22 - 656	SM005-TB10-0911	5.0E+00	Max. D.L. >SSL
1,2-Dichlorobenzene	95-50-1	mg/kg	39 - 53	0.66 J - 870	SM005-TB04-1617	0.22 - 206	SM005-TB05-1315	1.7E+01	Max. Det. & D.L. > SSL
1,3-Dichlorobenzene	541-73-1	mg/kg	1 - 45	95 - 95	SM006-TB03-0305	0.22 - 656	SM005-TB11-0911	1.7E+01	Max. Det. & D.L. > SSL
1,4-Dichlorobenzene	106-46-7	mg/kg	10 - 46	0.49 - 95	SM006-TB03-0305	0.22 - 656	SM005-TB11-0911	2.0E+00	Max. Det. & D.L. > SSL
2,4,5-Trichlorophenol	95-95-4	mg/kg	0 - 45	NA		0.09 - 656	SM005-TB10-0911	2.7E+02	Max. D.L. >SSL
2,4,6-Trichlorophenol	88-06-2	mg/kg	0 - 45	NA		0.11 - 656	SM005-TB10-0911	2.0E-01	Max. D.L. >SSL
2,4-Dichlorophenol	120-83-2	mg/kg	0 - 45	NA		0.13 - 656	SM005-TB10-0911	1.0E+00	Max. D.L. >SSL
2,4-Dimethylphenol	105-67-9	mg/kg	1 - 45	7.64 - 7.64	SM006-TB01-0709	0.13 - 656	SM005-TB10-0911	9.0E+00	Max. D.L. >SSL
2,4-Dinitrophenol	51-28-5	mg/kg	0 - 45	NA		0.8 - 4070	SM005-TB10-0911	3.0E-01	Max. D.L. >SSL
2,4-Dinitrotoluene	121-14-2	mg/kg	17 - 51	0.29 - 399	SM006-TB03-1315	0.1 - 656	SM005-TB10-0911	8.0E-04	Max. Det. & D.L. > SSL
2,6-Dichlorophenol	87-65-0	mg/kg	0 - 45	NA		0.13 - 656	SM005-TB10-0911	1.0E+00	Max. D.L. >SSL
2,6-Dinitrotoluene	606-20-2	mg/kg	8 - 49	0.25 J - 94.8	SM005-TB01-0305	0.13 - 656	SM005-TB10-0911	7.0E-04	Max. Det. & D.L. > SSL
2-Chlorophenol	95-57-8	mg/kg	0 - 45	NA		0.1 - 656	SM005-TB10-0911	4.0E+00	Max. D.L. >SSL
3,3'-Dichlorobenzidine	91-94-1	mg/kg	0 - 47	NA		0.27 - 4000	SM005-TB10-0911	7.0E-03	Max. D.L. >SSL
Acenaphthene	83-32-9	mg/kg	0 - 47	NA		0.13 - 656	SM005-TB10-0911	5.7E+02	Max. D.L. >SSL
Acenaphthylene	208-96-8	mg/kg	0 - 47	NA		0.13 - 656	SM005-TB10-0911	5.6E+02	Max. D.L. >SSL
Benzo(a)anthracene	56-55-3	mg/kg	0 - 47	NA		0.13 - 853	SM005-TB10-0911	2.0E+00	Max. D.L. >SSL
Benzo(a)pyrene	50-32-8	mg/kg	2 - 47	0.23 - 22.7	SM005-TB10-0911	0.13 - 656	SM006-TB03-1719	8.0E+00	Max. Det. & D.L. > SSL
Benzo(b)fluoranthene	205-99-2	mg/kg	3 - 47	0.26 - 99.2	SM005-TB04-1617	0.1 - 656	SM005-TB10-0911	5.0E+00	Max. Det. & D.L. > SSL
Benzo(k)fluoranthene	207-08-9	mg/kg	2 - 47	13.4 J - 28.7	SM006-TB03-1719	0.14 - 587	SM005-TB10-0507	4.9E+01	Max. D.L. >SSL
Benzoic Acid	65-85-0	mg/kg	1 - 46	0.4 J - 0.4 J	SM006-TB01-1113	0.22 - 656	SM005-TB10-0911	4.0E+02	Max. D.L. >SSL
bis(2-Chloroethyl)ether	111-44-4	mg/kg	1 - 48	0.5 J - 0.5 J	SM006-TB01-1113	0.22 - 656	SM005-TB10-0911	4.0E-04	Max. Det. & D.L. > SSL
Carbazole	86-74-8	mg/kg	0 - 46	NA		0.08 - 3280	SM005-TB10-0911	6.0E-01	Max. D.L. >SSL
Chrysene	218-01-9	mg/kg	1 - 47	0.26 - 0.26	SM005-TB07-0001	0.13 - 656	SM005-TB10-0911	1.6E+02	Max. D.L. >SSL
Dibenz(a,h)anthracene	53-70-3	mg/kg	0 - 47	NA		0.15 - 656	SM005-TB10-0911	2.0E+00	Max. D.L. >SSL
Diethyl phthalate	84-66-2	mg/kg	1 - 47	0.28 - 0.28	SM005-TB06-1012	0.1 - 656	SM005-TB10-0911	4.7E+02	Max. D.L. >SSL
Fluorene	86-73-7	mg/kg	0 - 47	NA		0.13 - 656	SM005-TB10-0911	5.6E+02	Max. D.L. >SSL
Hexachlorobenzene	118-74-1	mg/kg	0 - 47	NA		0.16 - 656	SM005-TB10-0911	2.0E+00	Max. D.L. >SSL
Hexachlorobutadiene	87-68-3	mg/kg	0 - 45	NA		0.22 - 656	SM005-TB10-0911	2.0E+00	Max. D.L. >SSL
Hexachlorocyclopentadiene	77-47-4	mg/kg	0 - 47	NA		0.22 - 656	SM005-TB10-0911	4.0E+02	Max. D.L. >SSL
Hexachloroethane	67-72-1	mg/kg	0 - 47	NA		0.1 - 656	SM005-TB10-0911	5.0E-01	Max. D.L. >SSL
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	0 - 47	NA		0.16 - 656	SM005-TB10-0911	1.4E+01	Max. D.L. >SSL
Isophorone	78-59-1	mg/kg	0 - 47	NA		0.14 - 656	SM005-TB10-0911	5.0E-01	Max. D.L. >SSL
m,p-Cresol	108-39-4	mg/kg	1 - 45	8610 - 8610	SM006-TB03-0305	0.2 - 984	SM005-TB10-0911	1.5E+01	Max. Det. & D.L. > SSL
Naphthalene	91-20-3	mg/kg	0 - 45	NA		0.22 - 656	SM005-TB10-0911	8.4E+01	Max. D.L. >SSL
Nitrobenzene	98-95-3	mg/kg	11 - 49	0.29 - 107	SM005-TB09-0709	0.1 - 656	SM005-TB10-0911	1.0E-01	Max. Det. & D.L. > SSL
n-Nitroso-di-n-propylamine	621-64-7	mg/kg	0 - 47	NA		0.1 - 656	SM005-TB10-0911	5.0E-05	Max. D.L. >SSL
n-Nitrosodiphenylamine	86-30-6	mg/kg	1 - 47	6.26 - 6.26	SM005-TB10-1719	0.29 - 853	SM005-TB10-0911	1.0E+00	Max. Det. & D.L. > SSL
o-Cresol	95-48-7	mg/kg	0 - 45	NA		0.09 - 656	SM005-TB10-0911	1.5E+01	Max. D.L. >SSL
p-Chloroaniline	106-47-8	mg/kg	31 - 52	0.24 - 320 J	SM005-TB05-1315	0.09 - 23	SM005-TB02-0305	7.0E-01	Max. Det. & D.L. > SSL
Pentachlorophenol	87-86-5	mg/kg	0 - 45	NA		0.22 - 656	SM005-TB10-0911	3.0E-02	Max. D.L. >SSL
Phenol	108-95-2	mg/kg	11 - 47	0.23 - 27.3 J	SM005-TB08-1113	0.13 - 394	SM005-TB10-0911	1.0E+02	Max. D.L. >SSL

TABLE 4.3-4
Screening of Soils to Total USEPA Leaching Soil Screening Levels: SWMU Group B

Constituent	CAS Number	Units	Frequency of Detection	Range of Detections	Sample of Maximum Detection	Range of Detection Limits	Sample of Maximum Detection Limit	Soil Screening Level[1] 20 DAF	Maximum Detection or Detection Limit Exceeds RBC
VOLATILE ORGANIC COMPOUNDS									
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	0 - 63	NA		0.262 - 5.84	SM006-TB03-0305	3.0E-03	Max. D.L. >SSL
1,1,1-Trichloroethane	71-55-6	mg/kg	0 - 63	NA		0.136 - 2.92	SM006-TB03-0305	2.0E+00	Max. D.L. >SSL
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	0 - 63	NA		0.136 - 2.92	SM006-TB03-0305	3.0E-03	Max. D.L. >SSL
1,1,2-Trichloroethane	79-00-5	mg/kg	0 - 63	NA		0.262 - 5.84	SM006-TB03-0305	2.0E-02	Max. D.L. >SSL
1,1-Dichloroethene	75-35-4	mg/kg	0 - 63	NA		0.262 - 5.84	SM006-TB03-0305	6.0E-02	Max. D.L. >SSL
1,1-Dichloropropene	563-58-6	mg/kg	0 - 63	NA		0.136 - 2.92	SM006-TB03-0305	4.0E-03	Max. D.L. >SSL
1,2-Dichloroethane	107-06-2	mg/kg	0 - 63	NA		0.262 - 5.84	SM006-TB03-0305	2.0E-02	Max. D.L. >SSL
1,2-Dichloropropane	78-87-5	mg/kg	0 - 63	NA		0.399 - 8.76	SM006-TB03-0305	3.0E-02	Max. D.L. >SSL
1,3-Dichloropropane	142-28-9	mg/kg	0 - 63	NA		0.136 - 2.92	SM006-TB03-0305	3.0E-02	Max. D.L. >SSL
2,2-Dichloropropane	590-20-7	mg/kg	0 - 63	NA		0.136 - 2.92	SM006-TB03-0305	3.0E-02	Max. D.L. >SSL
Acetone	67-64-1	mg/kg	2 - 63	1.79 J - 10.6 J	SM005-TB04-1617	0.923 - 21	SM006-TB03-0305	1.6E+01	Max. D.L. >SSL
Benzene	71-43-2	mg/kg	23 - 63	0.181 J - 7.94 J	SM006-TB03-0305	0.136 - 0.182	SM005-TB07-0305	3.0E-02	Max. Det. & D.L. > SSL
Bromodichloromethane	75-27-4	mg/kg	0 - 63	NA		0.262 - 5.84	SM006-TB03-0305	6.0E-01	Max. D.L. >SSL
Bromomethane	74-83-9	mg/kg	0 - 63	NA		0.399 - 8.76	SM006-TB03-0305	2.0E-01	Max. D.L. >SSL
Carbon tetrachloride	56-23-5	mg/kg	1 - 63	0.175 J - 0.175 J	SM005-TB10-0001	0.136 - 2.92	SM006-TB03-0305	7.0E-02	Max. Det. & D.L. > SSL
Chlorobenzene	108-90-7	mg/kg	46 - 63	0.299 J - 1400	SM006-TB03-0305	0.136 - 0.182	SM005-TB07-0305	1.0E+00	Max. Det.>SSL
cis-1,2-Dichloroethene	156-59-2	mg/kg	1 - 63	2.3 - 2.3	SM005-TB01-0305	0.262 - 5.84	SM006-TB03-0305	4.0E-01	Max. Det. & D.L. > SSL
Dibromochloromethane	124-48-1	mg/kg	0 - 63	NA		0.136 - 2.92	SM006-TB03-0305	4.0E-01	Max. D.L. >SSL
Methylene chloride	75-09-2	mg/kg	0 - 63	NA		0.262 - 5.84	SM006-TB03-0305	2.0E-02	Max. D.L. >SSL
Tetrachloroethene	127-18-4	mg/kg	1 - 63	0.63 J - 0.63 J	SM005-TB10-0001	0.136 - 2.92	SM006-TB03-0305	6.0E-02	Max. Det. & D.L. > SSL
trans-1,2-Dichloroethene	156-60-5	mg/kg	0 - 63	NA		0.262 - 5.84	SM006-TB03-0305	7.0E-01	Max. D.L. >SSL
trans-1,3-Dichloropropene	10061-02-6	mg/kg	0 - 63	NA		0.136 - 2.92	SM006-TB03-0305	4.0E-03	Max. D.L. >SSL
Tribromomethane	75-25-2	mg/kg	0 - 63	NA		0.136 - 2.92	SM006-TB03-0305	8.0E-01	Max. D.L. >SSL
Trichloroethene	79-01-6	mg/kg	6 - 63	0.153 - 8.96	SM005-TB01-0305	0.136 - 2.92	SM006-TB03-0305	6.0E-02	Max. Det. & D.L. > SSL
Trichloromethane	67-66-3	mg/kg	1 - 63	0.502 J - 0.502 J	SM005-TB10-0001	0.136 - 2.92	SM006-TB03-0305	6.0E-01	Max. D.L. >SSL
Vinyl Chloride	75-01-4	mg/kg	0 - 63	NA		0.262 - 5.84	SM006-TB03-0305	1.0E-02	Max. D.L. >SSL

[1] USEPA Soil Screening Levels (USEPA, 1996)

TABLE 4.3-5
Screening of Surface Soils (0-2 feet) to Risk-Based Screening Criteria: SWMU Group B

Constituent	CAS Number	Units	Frequency of Detection	Range of Detections	Sample of Maximum Detection	Range of Detection Limits	Sample of Maximum Detection Limit	Region III Industrial Soil RBC	Maximum Detection or Detection Limit Exceeds RBC
PESTICIDES/HERBICIDES									
Heptachlor	76-44-8	mg/kg	0 - 11	NA		0.09 - 2.6	SM005-TB09-0001	1.3E+00	Max. D.L. >RBC
SEMIVOLATILE ORGANIC COMPOUNDS									
1,2,4,5-Tetrachlorobenzene	95-94-3	mg/kg	0 - 11	NA		0.13 - 2.84	SM005-TB09-0001	6.1E+02	No
1,4-Dichlorobenzene	106-46-7	mg/kg	0 - 11	NA		0.1 - 2.36	SM005-TB09-0001	2.4E+02	No
2,4,6-Trichlorophenol	88-06-2	mg/kg	0 - 11	NA		0.11 - 2.36	SM005-TB09-0001	5.2E+02	No
2,4-Toluenediamine	95-80-7	mg/kg	2 - 12	33.3 J - 105 J	SM005-TB02-0001	1.1 - 11.6	SM006-TB04-0001	1.8E+00	Max. Det. & D.L. > RBC
2,4-Dichlorophenol	120-83-2	mg/kg	0 - 11	NA		0.13 - 2.36	SM005-TB09-0001	6.1E+03	No
3,3'-Dichlorobenzidine	91-94-1	mg/kg	0 - 11	NA		0.27 - 14.4	SM005-TB09-0001	1.3E+01	Max. D.L. >RBC
5-Nitro-o-toluidine	99-55-8	mg/kg	1 - 12	3.01 J - 3.01 J	SM005-TB02-0001	0.1 - 2.36	SM005-TB09-0001	1.7E+02	No
Azobenzene	103-33-3	mg/kg	0 - 11	NA		0.13 - 2.84	SM005-TB09-0001	5.2E+01	No
Benzidine	92-87-5	mg/kg	0 - 11	NA		1.4 - 37.8	SM005-TB09-0001	2.5E-02	Max. D.L. >RBC
Benzo(a)anthracene	56-55-3	mg/kg	0 - 11	NA		0.13 - 3.07	SM005-TB09-0001	7.8E+00	No
Benzo(a)pyrene	50-32-8	mg/kg	1 - 11	0.23 - 0.23	SM005-TB07-0001	0.13 - 2.36	SM005-TB09-0001	7.8E-01	Max. D.L. >RBC
Benzo(b)fluoranthene	205-99-2	mg/kg	1 - 11	0.45 - 0.45	SM005-TB07-0001	0.1 - 2.36	SM005-TB09-0001	7.8E+00	No
Benzo(k)fluoranthene	207-08-9	mg/kg	0 - 11	NA		0.14 - 2.36	SM005-TB09-0001	7.8E+01	No
bis(2-Chloroethyl)ether	111-44-4	mg/kg	0 - 11	NA		0.1 - 2.36	SM005-TB09-0001	5.2E+00	No
bis(2-Chloroisopropyl)ether	108-60-1	mg/kg	0 - 11	NA		0.1 - 2.36	SM005-TB09-0001	8.2E+01	No
bis(2-Ethylhexyl) phthalate	117-81-7	mg/kg	2 - 12	0.49 B - 0.81 J	SM006-TB01-0001	0.13 - 2.84	SM005-TB09-0001	4.1E+02	No
Carbazole	86-74-8	mg/kg	0 - 11	NA		0.08 - 11.8	SM005-TB09-0001	2.9E+02	No
Dibenz(a,h)anthracene	53-70-3	mg/kg	0 - 11	NA		0.15 - 2.36	SM005-TB09-0001	7.8E-01	Max. D.L. >RBC
Hexachlorobenzene	118-74-1	mg/kg	0 - 11	NA		0.16 - 2.36	SM005-TB09-0001	3.6E+00	No
Hexachlorobutadiene	87-68-3	mg/kg	0 - 11	NA		0.1 - 2.36	SM005-TB09-0001	7.3E+01	No
Hexachlorocyclopentadiene	77-47-4	mg/kg	0 - 11	NA		0.22 - 2.36	SM005-TB09-0001	1.4E+04	No
Hexachloroethane	67-72-1	mg/kg	0 - 11	NA		0.1 - 2.36	SM005-TB09-0001	4.1E+02	No
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	0 - 11	NA		0.16 - 2.36	SM005-TB09-0001	7.8E+00	No
m-Toludine	108-44-1	mg/kg	0 - 11	NA		0.09 - 4.73	SM005-TB09-0001	3.0E+01	No
N-Nitrosodibutylamine	924-16-3	mg/kg	0 - 11	NA		0.14 - 2.36	SM005-TB09-0001	1.2E-01	Max. D.L. >RBC
N-Nitrosodimethylamine	62-75-9	mg/kg	0 - 11	NA		0.1 - 2.36	SM005-TB09-0001	1.1E-01	Max. D.L. >RBC
n-Nitroso-di-n-propylamine	621-64-7	mg/kg	0 - 11	NA		0.1 - 2.36	SM005-TB09-0001	8.2E-01	Max. D.L. >RBC
o,p-Toluidine	106-49-0	mg/kg	0 - 11	NA		0.08 - 12.1	SM005-TB09-0001	3.0E+01	No
Pentachloronitrobenzene	82-68-8	mg/kg	0 - 11	NA		0.08 - 2.36	SM005-TB09-0001	2.2E+01	No
Pentachlorophenol	87-86-5	mg/kg	0 - 11	NA		0.22 - 2.36	SM005-TB09-0001	4.8E+01	No
Trimethylphosphate	512-56-1	mg/kg	0 - 11	NA		0.1 - 2.36	SM005-TB09-0001	1.5E+02	No
VOLATILE ORGANIC COMPOUNDS									
1,2,3-Trichloropropane	96-18-4	mg/kg	0 - 16	NA		0.136 - 0.154	SM005-TB09-0001	8.2E-01	No
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	0 - 16	NA		0.262 - 0.296	SM005-TB09-0001	4.1E+00	No
1,2-Dibromoethane	106-93-4	mg/kg	0 - 16	NA		0.136 - 0.154	SM005-TB09-0001	6.7E-02	Max. D.L. >RBC
Acrylonitrile	107-13-1	mg/kg	0 - 16	NA		1.36 - 1.54	SM005-TB09-0001	1.1E+01	No
Vinyl Chloride	75-01-4	mg/kg	0 - 16	NA		0.262 - 0.296	SM005-TB09-0001	3.0E+00	No

[1] Region III Industrial RBCs for Soil (USEPA, Region III, 1999)
NOTE: Only those constituents whose detected concentration or detection limit exceeded the Industrial Soil RBC in the Total Soils Screening are presented here.

TABLE 4.3-6
Screening of Shallow Subsurface Soils (0-5 feet) to Risk-Based Screening Criteria: SWMU Group B

Constituent	CAS Number	Units	Frequency of Detection	Range of Detections	Sample of Maximum Detection	Range of Detection Limits	Sample of Maximum Detection Limit	Region III Industrial Soil RBC[1]	Maximum Detection or Detection Limit Exceeds RBC
PESTICIDES/HERBICIDES									
Heptachlor	76-44-8	mg/kg	0 - 23	NA		0.09 - 25.3	SM005-TB02-0305	1.3E+00	Max. D.L. >RBC
SEMIVOLATILE ORGANIC COMPOUNDS									
1,2,4,5-Tetrachlorobenzene	95-94-3	mg/kg	0 - 23	NA		0.13 - 27.6	SM005-TB02-0305	6.1E+02	No
1,4-Dichlorobenzene	106-46-7	mg/kg	0 - 23	NA		0.1 - 95	SM006-TB03-0305	2.4E+02	No
2,4,6-Trichlorophenol	88-06-2	mg/kg	0 - 22	NA		0.11 - 23	SM005-TB02-0305	5.2E+02	No
2,4-Toluenediamine	95-80-7	mg/kg	6 - 25	33.3 J - 9130 J		1.1 - 115	SM005-TB02-0305	1.8E+00	Max. Det. & D.L. > RBC
2,4-Dichlorophenol	120-83-2	mg/kg	0 - 23	NA		0.13 - 23	SM005-TB02-0305	6.1E+03	No
3,3'-Dichlorobenzidine	91-94-1	mg/kg	0 - 23	NA		0.27 - 140	SM005-TB02-0305	1.3E+01	Max. D.L. >RBC
5-Nitro-o-toluidine	99-55-8	mg/kg	3 - 24	0.12 - 6.38	SM005-TB01-0305	0.1 - 23	SM005-TB02-0305	1.7E+02	No
Azobenzene	103-33-3	mg/kg	0 - 23	NA		0.13 - 27.6	SM005-TB02-0305	5.2E+01	No
Benzidine	92-87-5	mg/kg	0 - 23	NA		1.4 - 367	SM005-TB02-0305	2.5E-02	Max. D.L. >RBC
Benzo(a)anthracene	56-55-3	mg/kg	0 - 23	NA		0.13 - 29.9	SM005-TB02-0305	7.8E+00	Max. D.L. >RBC
Benzo(a)pyrene	50-32-8	mg/kg	1 - 23	0.23 - 0.23	SM005-TB07-0001	0.24 - 23	SM005-TB02-0305	7.8E-01	Max. D.L. >RBC
Benzo(b)fluoranthene	205-99-2	mg/kg	1 - 23	0.45 - 0.45	SM005-TB07-0001	0.1 - 23	SM005-TB02-0305	7.8E+00	Max. D.L. >RBC
Benzo(k)fluoranthene	207-08-9	mg/kg	0 - 23	NA		0.14 - 23	SM005-TB02-0305	7.8E+01	No
bis(2-Chloroethyl)ether	111-44-4	mg/kg	0 - 23	NA		0.1 - 23	SM005-TB02-0305	5.2E+00	Max. D.L. >RBC
bis(2-Chloroisopropyl)ether	108-60-1	mg/kg	1 - 23	71.5 - 71.5	SM006-TB03-0305	0.1 - 23	SM005-TB02-0305	8.2E+01	No
bis(2-Ethylhexyl) phthalate	117-81-7	mg/kg	4 - 24	0.49 B - 0.81 J	SM006-TB01-0001	0.13 - 27.6	SM005-TB02-0305	4.1E+02	No
Carbazole	86-74-8	mg/kg	0 - 23	NA		0.08 - 115	SM005-TB02-0305	2.9E+02	No
Dibenz(a,h)anthracene	53-70-3	mg/kg	0 - 23	NA		0.15 - 23	SM005-TB02-0305	7.8E-01	Max. D.L. >RBC
Hexachlorobenzene	118-74-1	mg/kg	0 - 23	NA		0.16 - 23	SM005-TB02-0305	3.6E+00	Max. D.L. >RBC
Hexachlorobutadiene	87-68-3	mg/kg	0 - 23	NA		0.1 - 23	SM005-TB02-0305	7.3E+01	No
Hexachlorocyclopentadiene	77-47-4	mg/kg	0 - 23	NA		0.22 - 23	SM005-TB02-0305	1.4E+04	No
Hexachloroethane	67-72-1	mg/kg	0 - 23	NA		0.1 - 23	SM005-TB02-0305	4.1E+02	No
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	0 - 23	NA		0.16 - 23	SM005-TB02-0305	7.8E+00	Max. D.L. >RBC
m-Toluidine	108-44-1	mg/kg	0 - 23	NA		0.09 - 45.9	SM005-TB02-0305	3.0E+01	Max. D.L. >RBC
N-Nitrosodibutylamine	924-16-3	mg/kg	0 - 23	NA		0.14 - 23	SM005-TB02-0305	1.2E-01	Max. D.L. >RBC
N-Nitrosodimethylamine	62-75-9	mg/kg	0 - 23	NA		0.1 - 23	SM005-TB02-0305	1.1E-01	Max. D.L. >RBC
n-Nitroso-di-n-propylamine	621-64-7	mg/kg	0 - 23	NA		0.1 - 23	SM005-TB02-0305	8.2E-01	Max. D.L. >RBC
o,p-Toluidine	106-49-0	mg/kg	0 - 22	NA		0.08 - 117	SM005-TB02-0305	3.0E+01	Max. D.L. >RBC
Pentachloronitrobenzene	82-68-8	mg/kg	0 - 23	NA		0.08 - 23	SM005-TB02-0305	2.2E+01	Max. D.L. >RBC
Pentachlorophenol	87-86-5	mg/kg	0 - 22	NA		0.22 - 23	SM005-TB02-0305	4.8E+01	No
Trimethylphosphate	512-56-1	mg/kg	0 - 23	NA		0.1 - 23	SM005-TB02-0305	1.5E+02	No
VOLATILE ORGANIC COMPOUNDS									
1,2,3-Trichloropropane	96-18-4	mg/kg	0 - 32	NA		0.136 - 2.92	SM006-TB03-0305	8.2E-01	Max. D.L. >RBC
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	0 - 32	NA		0.262 - 5.84	SM006-TB03-0305	4.1E+00	Max. D.L. >RBC
1,2-Dibromoethane	106-93-4	mg/kg	0 - 32	NA		0.136 - 2.92	SM006-TB03-0305	6.7E-02	Max. D.L. >RBC
Acrylonitrile	107-13-1	mg/kg	0 - 32	NA		1.36 - 29.2	SM006-TB03-0305	1.1E+01	Max. D.L. >RBC
Vinyl Chloride	75-01-4	mg/kg	0 - 32	NA		0.262 - 5.84	SM006-TB03-0305	3.0E+00	Max. D.L. >RBC

[1] Region III Industrial RBCs for Soil (USEPA, Region III, 1999)
NOTE: Only those constituents whose detected concentration or detection limit exceeded the Industrial Soil RBC in the Total Soils Screening are presented here.

TABLE 4.3-7
Screening of Soils to Total Site-Specific Leaching Soil Screening Levels: SWMU Group B

Constituent	CAS Number	Units	Frequency of Detection	Range of Detections	Sample of Maximum Detection	Range of Detection Limits	Sample of Maximum Detection Limit	Site-Specific Soil Screening Level [1]	Maximum Detection or Detection Limit Exceeds RBC
MISCELLANEOUS									
Cadmium	7440-43-9	mg/kg	39 - 51	0.61 - 26.6	SM006-TB04-0001	0.42 - 0.5	SM005-TB08-0305	8.9E+01	No
Nickel	7440-02-0	mg/kg	49 - 51	2.72 - 10400	SM005-TB04-1617	0.44 - 0.5	SM005-TB08-0305	1.7E+03	Max. Det.>SSL
SEMIVOLATILE ORGANIC COMPOUNDS									
1,2-Dichlorobenzene	95-50-1	mg/kg	39 - 53	0.66 J - 870	SM005-TB04-1617	0.22 - 206	SM005-TB05-1315	6.2E+02	Max. Det.>SSL
1,3-Dichlorobenzene	541-73-1	mg/kg	1 - 45	95 - 95	SM006-TB03-0305	0.22 - 656	SM005-TB11-0911	6.2E+02	Max. D.L. >SSL
1,4-Dichlorobenzene	106-46-7	mg/kg	10 - 46	0.49 - 95	SM006-TB03-0305	0.22 - 656	SM005-TB11-0911	7.8E+01	Max. Det. & D.L. > SSL
2,4-Dinitrotoluene	121-14-2	mg/kg	17 - 51	0.29 - 399	SM006-TB03-1315	0.1 - 656	SM005-TB10-0911	1.5E+01	Max. Det. & D.L. > SSL
2,6-Dinitrotoluene	606-20-2	mg/kg	8 - 49	0.25 J - 94.8	SM005-TB01-0305	0.13 - 656	SM005-TB10-0911	6.2E+00	Max. Det. & D.L. > SSL
Benzo(a)pyrene	50-32-8	mg/kg	2 - 47	0.23 - 22.7	SM005-TB10-0911	0.13 - 656	SM006-TB03-1719	3.2E+02	Max. D.L. >SSL
Benzo(b)fluoranthene	205-99-2	mg/kg	3 - 47	0.26 - 99.2	SM005-TB04-1617	0.1 - 656	SM005-TB10-0911	2.7E+02	Max. D.L. >SSL
bis(2-Chloroethyl)ether	111-44-4	mg/kg	1 - 48	0.5 J - 0.5 J	SM006-TB01-1113	0.22 - 656	SM005-TB10-0911	7.5E-04	Max. Det. & D.L. > SSL
m,p-Cresol	108-39-4	mg/kg	1 - 45	8610 - 8610	SM006-TB03-0305	0.2 - 984	SM005-TB10-0911	3.6E+02	Max. Det. & D.L. > SSL
Nitrobenzene	98-95-3	mg/kg	11 - 49	0.29 - 107	SM005-TB09-0709	0.1 - 656	SM005-TB10-0911	5.4E-01	Max. Det. & D.L. > SSL
n-Nitrosodiphenylamine	86-30-6	mg/kg	1 - 47	6.26 - 6.26	SM005-TB10-1719	0.29 - 853	SM005-TB10-0911	4.4E+01	Max. D.L. >SSL
p-Chloroaniline	106-47-8	mg/kg	31 - 52	0.24 - 320 J	SM005-TB05-1315	0.09 - 23	SM005-TB02-0305	2.4E+01	Max. Det.>SSL
VOLATILE ORGANIC COMPOUNDS									
Benzene	71-43-2	mg/kg	23 - 63	0.181 J - 7.94 J	SM006-TB03-0305	0.136 - 0.182	SM005-TB07-0305	7.5E-01	Max. Det.>SSL
Carbon tetrachloride	56-23-5	mg/kg	1 - 63	0.175 J - 0.175 J	SM005-TB10-0001	0.136 - 2.92	SM006-TB03-0305	2.5E+00	Max. D.L. >SSL
Chlorobenzene	108-90-7	mg/kg	46 - 63	0.299 J - 1400	SM006-TB03-0305	0.136 - 0.182	SM005-TB07-0305	1.6E+01	Max. Det.>SSL
cis-1,2-Dichloroethene	156-59-2	mg/kg	1 - 63	2.3 - 2.3	SM005-TB01-0305	0.262 - 5.84	SM006-TB03-0305	1.2E+01	No
Tetrachloroethene	127-18-4	mg/kg	1 - 63	0.63 J - 0.63 J	SM005-TB10-0001	0.136 - 2.92	SM006-TB03-0305	2.2E+00	Max. D.L. >SSL
Trichloroethene	79-01-6	mg/kg	6 - 63	0.153 - 8.96	SM005-TB01-0305	0.136 - 2.92	SM006-TB03-0305	1.6E+00	Max. Det. & D.L. > SSL

[1] Soil Screening Levels calculated as per USEPA SSL Guidance (1996); see Appendix F-2

NOTE: Only those constituents whose detected concentration exceeded the USEPA SSL are presented here.

The site-specific SSL for 1,2-dchlorobenzene was used for 1,3-dichlorobenzene; the site-specific SSL for o-cresol was used for m,p-cresol.

TABLE 4.3-8
Exposure Point Concentrations for Constituents of Interest
SWMU Group B

Depth Interval	Constituent of Interest	Maximum Detected Concentration mg/kg	Distribution	95% UCL mg/kg	EPC mg/kg
0-2 feet	2,4-Toluenediamine	105	Assume Lognormal	67.3	67.3
0-5 feet	2,4-Toluenediamine	9,130	Assume Lognormal	2,435	2,435

TABLE 4.3-9

Industrial Construction Worker Scenario
Risk Summary
SWMU Group B

Constituent of Interest	Ingestion	Dermal	Inhalation of Particulates	Inhalation of Volatiles	TOTAL RISK
Summary of Theoretical Excess Lifetime Cancer Risks					
Industrial Workers					
2,4-Toluenediamine	1.88E-05	7.53E-05	1.14E-08	--	9.41E-05
TOTAL	**1.88E-05**	**7.53E-05**	**1.14E-08**	--	**9.41E-05**
Construction Workers					
2,4-Toluenediamine	6.27E-05	2.61E-05	3.96E-09	--	8.88E-05
TOTAL	**6.27E-05**	**2.61E-05**	**3.96E-09**	--	**8.88E-05**

Note: Non-cancer Hazard Indices were not calculated as the COI was not defined as non-carcinogenic.