TABLE 2-1
SITE-RELATED CHEMICAL LIST

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

GROUP	CHEMICAL	CAS NUMBER	MONTROSE SRC	SMC SRC	WATER	SOIL	TEST METHOD	LABORATORY
ALDEHYDES	Acetaldehyde	75-07-0	✓		Y	Y	USEPA Method 8315A	TestAmerica
ALDEHYDES	Chloral	75-87-6	✓				USEPA Method 8270C Modified	TestAmerica
ALDEHYDES	Chloral Hydrate	302-17-0	✓		Y	Y	USEPA Method 8270C Modified	TestAmerica
ALDEHYDES	Chloroacetaldehyde	107-20-0	✓		Y	Y	USEPA Method 8315A	TestAmerica
ALDEHYDES	Dichloroacetaldehyde	79-02-7	✓				USEPA Method 8270C Modified	TestAmerica
ALDEHYDES	Formaldehyde	50-00-0		✓	Y	Y	U.S. EPA Test Method 8315A	TestAmerica
ASBESTOS	Asbestos	1332-21-4		✓			TEM	Fiberquant
CHEMICALS UNDER REVIEW	Total Petroleum Hydrocarbons	NA		✓	Y	Y	U.S. EPA Test Method 8015M with silica gel cleanup (U.S. EPA Test Method 3630C)	TestAmerica
DIOXINS/FURANS	1,2,3,4,6,7,8,9-Octachlorodibenzofuran	39001-02-0		✓	Y	Y	U.S. EPA Test Method 8290	Maxxam Analytics, Inc.
DIOXINS/FURANS	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	3268-87-9		✓	Y	Y	U.S. EPA Test Method 8290	Maxxam Analytics, Inc.
DIOXINS/FURANS	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	35822-46-9		✓	Y	Y	U.S. EPA Test Method 8290	Maxxam Analytics, Inc.
DIOXINS/FURANS	1,2,3,4,6,7,8-Hexachlorodibenzofuran	67562-39-4		✓	Y	Y	U.S. EPA Test Method 8290	Maxxam Analytics, Inc.
DIOXINS/FURANS	1,2,3,4,7,8,9-Heptachlorodibenzofuran	55673-89-7		✓	Y	Y	U.S. EPA Test Method 8290	Maxxam Analytics, Inc.
DIOXINS/FURANS	1,2,3,4,7,8-Hexachlorodibenzofuran	70648-26-9		✓	Y	Y	U.S. EPA Test Method 8290	Maxxam Analytics, Inc.
DIOXINS/FURANS	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	39227-28-6		✓	Y	Y	U.S. EPA Test Method 8290	Maxxam Analytics, Inc.
DIOXINS/FURANS	1,2,3,6,7,8-Hexachlorodibenzofuran	57117-44-9		✓	Y	Y	U.S. EPA Test Method 8290	Maxxam Analytics, Inc.
DIOXINS/FURANS	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	57653-85-7		✓	Y	Y	U.S. EPA Test Method 8290	Maxxam Analytics, Inc.
DIOXINS/FURANS	1,2,3,7,8,9-Hexachlorodibenzofuran	72918-21-9		✓	Y	Y	U.S. EPA Test Method 8290	Maxxam Analytics, Inc.
DIOXINS/FURANS	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	19408-74-3		✓	Y	Y	U.S. EPA Test Method 8290	Maxxam Analytics, Inc.
DIOXINS/FURANS	1,2,3,7,8-Pentachlorodibenzofuran	57117-41-6		✓	Y	Y	U.S. EPA Test Method 8290	Maxxam Analytics, Inc.
DIOXINS/FURANS	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	40321-76-4		✓	Y	Y	U.S. EPA Test Method 8290	Maxxam Analytics, Inc.
DIOXINS/FURANS	2,3,4,6,7,8-Hexachlorodibenzofuran	60851-34-5		✓	Y	Y	U.S. EPA Test Method 8290	Maxxam Analytics, Inc.
DIOXINS/FURANS	2,3,4,7,8-Pentachlorodibenzofuran	57117-31-4		✓	Y	Y	U.S. EPA Test Method 8290	Maxxam Analytics, Inc.
DIOXINS/FURANS	2,3,7,8-Tetrachlorodibenzofuran	51207-31-9		✓	Y	Y	U.S. EPA Test Method 8290	Maxxam Analytics, Inc.
DIOXINS/FURANS	2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746-01-6		✓	Y	Y	U.S. EPA Test Method 8290	Maxxam Analytics, Inc.
GENERAL CHEMICAL	Total Dissolved Solids	NA	✓	✓	Y	Y	USEPA Method 160.1	TestAmerica
INDICATOR CHEMICAL	Alkalinity as CaCO3 [Sodium Hydroxide]	NA	✓		Y	Y	Alkalinity-USEPA 310.1	TestAmerica
INDICATOR CHEMICAL	Ammonia-N2	7664-41-7	✓	✓	Y	Y	USEPA 350.3 MOD.	TestAmerica
INDICATOR CHEMICAL	Chloride	16887-00-6	✓		Y	Y	USEPA Method 9056	TestAmerica
INDICATOR CHEMICAL	Iron (Total)	7439-89-6	✓	✓	Y	Y	USEPA Method 6010B	TestAmerica
INDICATOR CHEMICAL	pH (in Soil)	NA	✓		Y	Y	USEPA Method 9045	TestAmerica
INDICATOR CHEMICAL	pH (in Water)	NA	✓		Y	Y	USEPA Method 9040	TestAmerica
INDICATOR CHEMICAL	Sodium	7440-23-5	✓	✓	Y	Y	USEPA Method 6010B	TestAmerica
INDICATOR CHEMICAL	Sulfate	14808-79-8	✓		Y	Y	USEPA Method 9056	TestAmerica
INDICATOR CHEMICAL	Sulfur - total	63705-05-5	✓				USEPA Method 6010B	Maxxam Analytics, Inc.
INDICATOR CHEMICAL	Total Phosphorus	7723-14-0	✓	✓	Y	Y	USEPA Method 365.3	TestAmerica
INORGANIC	Ammonium Chloride	12125-02-9	✓		Y	Y		TestAmerica
INORGANIC	Bicarbonate	71-52-3		✓	Y	Y	U.S. EPA Test Method 310.1 and 160.1	TestAmerica
INORGANIC	Calcium carbonate	471-34-1		✓	Y	Y	U.S. EPA Test Method 310.1	TestAmerica
INORGANIC	Calcium hydroxides	1305-62-0		✓	Y	Y	U.S. EPA Test Method 6020/6010B and 150.1	TestAmerica
INORGANIC	Chloride	16887-00-6	✓		Y	Y	USEPA Method 9056	TestAmerica
INORGANIC	Chlorine	7782-50-5	✓	✓	Y	Y		TestAmerica

TABLE 2-1
SITE-RELATED CHEMICAL LIST

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

GROUP	CHEMICAL	CAS NUMBER	MONTROSE SRC	SMC SRC	WATER	SOIL	TEST METHOD	LABORATORY
INORGANIC	Cyanide	57-12-5	✓	✓	Y	Y	USEPA Method 9010/9014	TestAmerica
INORGANIC	Ferric Chloride	7705-08-0	✓		Y	Y		TestAmerica
INORGANIC	Fluoride	16984-48-8	✓		Y	Y	USEPA Method 9056	TestAmerica
INORGANIC	Graphite	7782-42-5		✓	Y	Y	U.S. EPA Test Method 415.1	TestAmerica
INORGANIC	Hydrochloric Acid	7647-01-0	✓	✓	Y	Y		TestAmerica
INORGANIC	Iodine	7553-56-2		✓	Y	Y	U.S. EPA Test Method 345.1	Weck Laboratories, Inc
INORGANIC	Iodine chloride	7790-99-0		✓	Y	Y	U.S. EPA Test Method 345.1, 300.0 and 160.1	TestAmerica
INORGANIC	Magnesium hydroxide	1309-42-8		✓	Y	Y	U.S. EPA Test Method 6020/6010B	TestAmerica
INORGANIC	Magnesium oxide	1309-48-4		✓	Y	Y	U.S. EPA Test Method 6020/6010B	TestAmerica
INORGANIC	Nitrate	14797-55-8		✓	Y	Y	U.S. EPA Test Method 300.0 and 160.1	TestAmerica
INORGANIC	Nitrogen Chloride	10025-85-1	✓	✓				TestAmerica
INORGANIC	Phosphoric Acid	7664-38-2	✓	✓	Y	Y		TestAmerica
INORGANIC	Phosphorus pentasulfide	1314-80-3		✓	Y	Y	365.1	TestAmerica
INORGANIC	Phosphorus Trichloride	7719-12-2	✓		Y	Y		TestAmerica
INORGANIC	Sodium carbonate	497-19-8		✓	Y	Y	U.S. EPA Test Method 6020/6010B and 310.1	TestAmerica
INORGANIC	Sodium chlorate	7775-09-9		✓	Y	Y	U.S. EPA Test Method 6020/6010B and 300.0	TestAmerica
INORGANIC	Sodium chloride	7647-14-5		✓	Y	Y	U.S. EPA Test Method 6020/6010B and 300.0	TestAmerica
INORGANIC	Sodium Hydroxide	1310-73-2	✓	✓	Y	Y		TestAmerica
INORGANIC	Sodium Hypochlorite	7681-52-9	✓	✓	Y	Y		TestAmerica
INORGANIC	Sodium salt of Diethyl phosphorodithioic acid	3338-24-7		✓			HPLC, 6020/6010B, 160.1, and 310.1	TestAmerica
INORGANIC	Sodium salt of Dimethyl phosphorodithioic acid	26377-29-7		✓			HPLC, 6020/6010B, 160.1, and 310.1	TestAmerica
INORGANIC	Sodium sulfate	7757-82-6		✓	Y	Y	U.S. EPA Test Method 6020/6010B and 300.0	TestAmerica
INORGANIC	Sulfate	14808-79-8	✓		Y	Y	USEPA Method 9056	TestAmerica
INORGANIC	Sulfuric Acid	7664-93-9	✓	✓	Y	Y		TestAmerica
INORGANIC	Total Dissolved Solids	TDS		✓	Y	Y	U.S. EPA Test Method 160.1	TestAmerica
INORGANIC	White phosphorus	12185-10-3		✓	Y	Y	Amperometric Dissolved Oxygen Field Method	Data Chem
METAL	Aluminum	7429-90-5	✓	✓	Y	Y	USEPA Method 6020	TestAmerica
METAL	Antimony	7440-36-0	✓	✓	Y	Y	USEPA Method 6020	TestAmerica
METAL	Arsenic	7440-38-2	✓	✓	Y	Y	USEPA Method 6020	TestAmerica
METAL	Barium	7440-39-3	✓		Y	Y	USEPA Method 6020	TestAmerica
METAL	Beryllium	7440-41-7	✓	✓	Y	Y	USEPA Method 6020	TestAmerica
METAL	Cadmium	7440-43-9	✓	✓	Y	Y	USEPA Method 6020	TestAmerica
METAL	Calcium	7440-70-2	✓	✓	Y	Y	USEPA Method 6010B	TestAmerica
METAL	Chromium (Total)	7440-47-3	✓	✓	Y	Y	USEPA Method 6020	TestAmerica
METAL	Chromium VI (in Soil)	18540-29-9	✓	✓	Y	Y	USEPA Method 3060A / 7199	TestAmerica
METAL	Chromium VI (in Water)	18540-29-9	✓	✓	Y	Y	USEPA Method 218.6	TestAmerica
METAL	Cobalt	7440-48-4	✓	✓	Y	Y	USEPA Method 6020	TestAmerica
METAL	Copper	7440-50-8	✓	✓	Y	Y	USEPA Method 6020	TestAmerica
METAL	Iron (Total)	7439-89-6	✓	✓	Y	Y	USEPA Method 6010B	TestAmerica
METAL	Lead	7439-92-1	✓	✓	Y	Y	USEPA Method 6020	TestAmerica
METAL	Magnesium	7439-95-4	✓	✓	Y	Y	USEPA Method 6010B	TestAmerica
METAL	Manganese	7439-96-5	✓	✓	Y	Y	USEPA Method 6020	TestAmerica

TABLE 2-1
SITE-RELATED CHEMICAL LIST

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

GROUP	CHEMICAL	CAS NUMBER	MONTROSE SRC	SMC SRC	WATER	SOIL	TEST METHOD	LABORATORY
METAL	Mercury [Mercury (in Soil)]	7439-97-6	✓	✓	Y	Y	USEPA Method 7471	TestAmerica
METAL	Mercury [Mercury (in Water)]	7439-97-6	✓	✓	Y	Y	USEPA Method 7470	TestAmerica
METAL	Molybdenum	7439-98-7	✓		Y	Y	USEPA Method 6020	TestAmerica
METAL	Nickel	7440-02-0	✓	✓	Y	Y	USEPA Method 6020	TestAmerica
METAL	Phosphorus	7723-14-0	✓	✓	Y	Y	USEPA Method 6010B	TestAmerica
METAL	Phosphorus, white	7723-14-0	✓	✓	Y	Y	USEPA Method 7580M	TestAmerica
METAL	Potassium	7440-09-7	✓	✓	Y	Y	USEPA Method 6010B	TestAmerica
METAL	Selenium	7782-49-2	✓	✓	Y	Y	USEPA Method 6020	TestAmerica
METAL	Silver	7440-22-4	✓	✓	Y	Y	USEPA Method 6020	TestAmerica
METAL	Sodium	7440-23-5	✓	✓	Y	Y	USEPA Method 6010B	TestAmerica
METAL	Sulfur, molecular	7704-34-9	✓		Y	Y	USEPA Method 6010B	Maxxam Analytics, Inc.
METAL	Thallium	7440-28-0	✓	✓	Y	Y	USEPA Method 6020	TestAmerica
METAL	Tin	7440-31-5	✓	✓	Y	Y	USEPA Method 6010B	TestAmerica
METAL	Titanium	7440-32-6		✓	Y	Y	U.S. EPA Test Method 6020/6010B	TestAmerica
METAL	Vanadium	7440-62-2	✓	✓	Y	Y	USEPA Method 6020	TestAmerica
METAL	Zinc	7440-66-6	✓	✓	Y	Y	USEPA Method 6020	TestAmerica
ORGANIC ACIDS	4-Chlorobenzene Sulfonic Acid (pCBSA)	98-66-8	✓	✓			HPLC	Alpha Analytical
ORGANIC ACIDS	Benzenesulfonic acid	98-11-3		✓			HPLC	Alpha Analytical
ORGANIC ACIDS	Diethyl phosphorodithioic acid	298-06-6		✓			HPLC	Alpha Analytical
ORGANIC ACIDS	Dimethyl phosphorodithioic acid	756-80-9		✓			HPLC	Alpha Analytical
ORGANIC ACIDS	Phthalic acid	88-99-3		✓			HPLC	Alpha Analytical
PCB	2,2'-Dichlorobiphenyl	13029-08-8	✓		Y		USEPA Method 1668	Maxxam Analytics, Inc.
PCB	2,3'-Dichlorobiphenyl	25569-80-6	✓		Y		USEPA Method 1668	Maxxam Analytics, Inc.
PCB	2,3-Dichlorobiphenyl	16605-91-7	✓		Y		USEPA Method 1668	Maxxam Analytics, Inc.
PCB	2,4'-Dichlorobiphenyl	34883-43-7	✓		Y		USEPA Method 1668	Maxxam Analytics, Inc.
PCB	2,4-Dichlorobiphenyl	33284-50-3	✓		Y		USEPA Method 1668	Maxxam Analytics, Inc.
PCB	2,5-Dichlorobiphenyl	34883-39-1	✓		Y		USEPA Method 1668	Maxxam Analytics, Inc.
PCB	2,6-Dichlorobiphenyl	33146-45-1	✓		Y		USEPA Method 1668	Maxxam Analytics, Inc.
PCB	3,3'-Dichlorobiphenyl	2050-67-1	✓		Y		USEPA Method 1668	Maxxam Analytics, Inc.
PCB	3,4'-Dichlorobiphenyl	2974-90-5	✓		Y		USEPA Method 1668	Maxxam Analytics, Inc.
PCB	3,4-Dichlorobiphenyl	2974-92-7	✓		Y		USEPA Method 1668	Maxxam Analytics, Inc.
PCB	3,5-Dichlorobiphenyl	34883-41-5	✓		Y		USEPA Method 1668	Maxxam Analytics, Inc.
PCB	4,4'-Dichlorobiphenyl	2050-68-2	✓		Y		USEPA Method 1668	Maxxam Analytics, Inc.
PCB	Aroclor 1016	12674-11-2	✓	✓	Y	Y	USEPA Method 8082	TestAmerica
PCB	Aroclor 1221	11104-28-2	✓	✓	Y	Y	USEPA Method 8082	TestAmerica
PCB	Aroclor 1232	11141-16-5	✓	✓	Y	Y	USEPA Method 8082	TestAmerica
PCB	Aroclor 1242	53469-21-9	✓	✓	Y	Y	USEPA Method 8082	TestAmerica
PCB	Aroclor 1248	12672-29-6	✓	✓	Y	Y	USEPA Method 8082	TestAmerica
PCB	Aroclor 1254	11097-69-1	✓	✓	Y	Y	USEPA Method 8082	TestAmerica
PCB	Aroclor 1260	11096-82-5	✓	✓	Y	Y	USEPA Method 8082	TestAmerica
PCB	PCB 077	32598-13-3	✓	✓	Y		USEPA Method 1668	Maxxam Analytics, Inc.

TABLE 2-1
SITE-RELATED CHEMICAL LIST

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

GROUP	CHEMICAL	CAS NUMBER	MONTROSE SRC	SMC SRC	WATER	SOIL	TEST METHOD	LABORATORY
PCB	PCB 081	70362-50-4	✓	✓	Y		USEPA Method 1668	Maxxam Analytics, Inc.
PCB	PCB 105	32598-14-4	✓	✓	Y		USEPA Method 1668	Maxxam Analytics, Inc.
PCB	PCB 114	74472-37-0	✓	✓	Y		USEPA Method 1668	Maxxam Analytics, Inc.
PCB	PCB 118	31508-00-6	✓	✓	Y		USEPA Method 1668	Maxxam Analytics, Inc.
PCB	PCB 123	65510-44-3	✓	✓	Y		USEPA Method 1668	Maxxam Analytics, Inc.
PCB	PCB 126	57465-28-8	✓	✓	Y		USEPA Method 1668	Maxxam Analytics, Inc.
PCB	PCB 156	38380-08-4	✓	✓	Y		USEPA Method 1668	Maxxam Analytics, Inc.
PCB	PCB 157	69782-90-7	✓	✓	Y		USEPA Method 1668	Maxxam Analytics, Inc.
PCB	PCB 167	52663-72-6	✓	✓	Y		USEPA Method 1668	Maxxam Analytics, Inc.
PCB	PCB 169	32774-16-6	✓	✓	Y		USEPA Method 1668	Maxxam Analytics, Inc.
PCB	PCB 189	39635-31-9	✓	✓	Y		USEPA Method 1668	Maxxam Analytics, Inc.
PESTICIDE	2,4' -DDD	53-19-0	✓	✓			USEPA Method 8081A	TestAmerica
PESTICIDE	2,4' -DDE	3424-82-6	✓	✓			USEPA Method 8081A	TestAmerica
PESTICIDE	2,4' -DDT	789-02-6	✓				USEPA Method 8081A	TestAmerica
PESTICIDE	4,4' -DDD	72-54-8	✓	✓	Y	Y	USEPA Method 8081A	TestAmerica
PESTICIDE	4,4' -DDE	72-55-9	✓	✓	Y	Y	USEPA Method 8081A	TestAmerica
PESTICIDE	4,4' -DDT	50-29-3	✓	✓	Y	Y	USEPA Method 8081A	TestAmerica
PESTICIDE	A-BHC	319-84-6	✓	✓	Y	Y	USEPA Method 8081A	TestAmerica
PESTICIDE	Aldrin	309-00-2	✓	✓	Y	Y	USEPA Method 8081A	TestAmerica
PESTICIDE	B-BHC	319-85-7	✓	✓	Y	Y	USEPA Method 8081A	TestAmerica
PESTICIDE	Carbophenothion	786-19-6		✓			U.S. EPA Test Method 8141A	TestAmerica
PESTICIDE	D-BHC	319-86-8	✓	✓	Y	Y	USEPA Method 8081A	TestAmerica
PESTICIDE	Dieldrin	60-57-1	✓	✓	Y	Y	USEPA Method 8081A	TestAmerica
PESTICIDE	Endosulfan I	959-98-8	✓	✓	Y	Y	USEPA Method 8081A	TestAmerica
PESTICIDE	Endosulfan Sulfate	1031-07-8	✓	✓	Y	Y	USEPA Method 8081A	TestAmerica
PESTICIDE	Endrin	72-20-8	✓	✓	Y	Y	USEPA Method 8081A	TestAmerica
PESTICIDE	Endrin Aldehyde	7421-93-4	✓	✓	Y	Y	USEPA Method 8081A	TestAmerica
PESTICIDE	G-BHC	58-89-9	✓	✓	Y	Y	USEPA Method 8081A	TestAmerica
PESTICIDE	Heptachlor Epoxide	1024-57-3	✓	✓	Y	Y	USEPA Method 8081A	TestAmerica
PESTICIDE	Methyl-carbophenothion	953-17-3		✓			U.S. EPA Test Method 8141A	TestAmerica
PESTICIDE	Phosmet	732-11-6		✓			U.S. EPA Test Method 8141A	TestAmerica
SVOC	1-(4-chlorophenyl)-1-propanone	6285-05-8	✓				USEPA Method 8270C	TestAmerica
SVOC	1,1'-Sulfonybis benzene	127-63-9		✓			U.S. EPA Test Method 8270C	TestAmerica
SVOC	1,2,3,4-Tetrachlorobenzene	634-66-2	✓	✓			USEPA Method 8270C	TestAmerica
SVOC	1,2,4,5-Tetrachlorobenzene	95-94-3	✓	✓			USEPA Method 8270C	TestAmerica
SVOC	1,2-Diphenyl hydrazine	122-66-7	✓				USEPA Method 8270C	TestAmerica
SVOC	1-chloro-4-(methylsulfonyl) benzene	98-57-7		✓			U.S. EPA Test Method 8270C	TestAmerica
SVOC	2,2'-Dichlorobenzil	21854-95-5	✓		Y	Y	USEPA Method 8270C	TestAmerica
SVOC	2,4,5-Trichlorophenol	95-95-4	✓	✓	Y	Y	USEPA Method 8270C	TestAmerica
SVOC	2,4,6-Trichlorophenol	88-06-2	✓	✓			USEPA Method 8270C	TestAmerica
SVOC	2,4-Dichlorophenol	120-83-2	✓	✓	Y	Y	USEPA Method 8270C	TestAmerica
SVOC	2,4-Dimethylphenol	105-67-9		✓	Y	Y	U.S. EPA Test Method 8270C	TestAmerica

TABLE 2-1
SITE-RELATED CHEMICAL LIST

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

GROUP	CHEMICAL	CAS NUMBER	MONTROSE SRC	SMC SRC	WATER	SOIL	TEST METHOD	LABORATORY
SVOC	2-Chlorophenol	95-57-8	✓	✓	Y	Y	USEPA Method 8270C	TestAmerica
SVOC	4,4'-Dichlorobenzil	3457-46-3	✓				USEPA Method 8270C	TestAmerica
SVOC	4-Chloro-3-methylphenol	35421-08-0	✓		Y	Y	USEPA Method 8270C	TestAmerica
SVOC	4-Chlorophenyl methyl sulfide	123-09-1		✓	Y	Y	U.S. EPA Test Method 8270C	TestAmerica
SVOC	4-Nitrophenol	100-02-7	✓				USEPA Method 8270C	TestAmerica
SVOC	Benzo(a)anthracene	56-55-3		✓			U.S. EPA Test Method 8270C	TestAmerica
SVOC	Benzo(a)pyrene	50-32-8	✓	✓			USEPA Method 8270C	TestAmerica
SVOC	Benzo(b)fluoranthene	205-99-2		✓	Y	Y	U.S. EPA Test Method 8270C	TestAmerica
SVOC	Benzo(g,h,i)perylene	191-24-2		✓	Y	Y	U.S. EPA Test Method 8270C	TestAmerica
SVOC	Benzo(k)fluoranthene	207-08-9		✓	Y	Y	U.S. EPA Test Method 8270C	TestAmerica
SVOC	Benzoic Acid	65-85-0	✓	✓			USEPA Method 8270C	TestAmerica
SVOC	Benzophenone	119-61-9		✓			U.S. EPA Test Method 8270C	TestAmerica
SVOC	Bis(2-ethylhexyl)phthalate	117-81-7	✓	✓			USEPA Method 8270C	TestAmerica
SVOC	Bis-(chloromethyl)ether	542-88-1		✓	Y	Y	U.S. EPA Test Method 8270C	TestAmerica
SVOC	Bis(p-chlorophenyl)disulfide	1142-19-4		✓			U.S. EPA Test Method 8270C	TestAmerica
SVOC	Chlorobenzenethiol	106-54-7		✓			U.S. EPA Test Method 8270C	TestAmerica
SVOC	Chrysene	218-01-9	✓	✓	Y	Y	USEPA Method 8270C	TestAmerica
SVOC	Dibenzo(a,h)anthracene	53-70-3		✓	Y	Y	U.S. EPA Test Method 8270C	TestAmerica
SVOC	Diethyl phthalate	84-66-2		✓	Y	Y	U.S. EPA Test Method 8270C	TestAmerica
SVOC	Di-n-butyl phthalate	84-74-2	✓	✓	Y	Y	USEPA Methods 8260B and 8270C	TestAmerica
SVOC	Di-n-octyl phthalate	117-84-0		✓			U.S. EPA Test Method 8270C	TestAmerica
SVOC	Fluoranthene	206-44-0	✓	✓	Y	Y	USEPA Method 8270C	TestAmerica
SVOC	Hexachlorobenzene	118-74-1	✓	✓	Y	Y	USEPA Method 8270C	TestAmerica
SVOC	Hexachloroethane	67-72-1		✓	Y	Y	U.S. EPA Test Method 8270C	TestAmerica
SVOC	Indeno(1,2,3-cd)pyrene	193-39-5		✓			U.S. EPA Test Method 8270C	TestAmerica
SVOC	N-Hydroxymethylphthalimide	118-29-6		✓			U.S. EPA Test Method 8270C	TestAmerica
SVOC	Octachlorostyrene	29082-74-4	✓	✓			USEPA Method 8270C Specific TIC	TestAmerica
SVOC	p-Chlorophenyl sulfone	80-07-9		✓			U.S. EPA Test Method 8270C	TestAmerica
SVOC	Pentachlorobenzene	608-93-5	✓	✓			USEPA Method 8270C	TestAmerica
SVOC	Pentachlorophenol	87-86-5	✓		Y	Y	USEPA Method 8270C	TestAmerica
SVOC	Phenanthrene	85-01-8		✓	Y	Y	U.S. EPA Test Method 8270C	TestAmerica
SVOC	Phenol (Total)	108-95-2	✓	✓	Y	Y	USEPA Method 8270C	TestAmerica
SVOC	Phenyl disulfide	882-33-7		✓			U.S. EPA Test Method 8270C	TestAmerica
SVOC	Phenyl sulfide	139-66-2		✓			U.S. EPA Test Method 8270C	TestAmerica
SVOC	Pyrene	129-00-0	✓	✓	Y	Y	USEPA Method 8270C	TestAmerica
SVOC	Pyridine	110-86-1		✓	Y	Y	U.S. EPA Test Method 8270C	TestAmerica
SVOC	Thiophenol	108-98-5		✓			U.S. EPA Test Method 8270C	TestAmerica
TIC	1,1'-Thiobis [4-Chloro]Benzene	5181-10-2		✓			U.S. EPA Test Method 8270C and 8260B	TestAmerica
TIC	1,2,3,5-Tetrachlorobenzene	634-90-2	✓	✓			USEPA Method 8270C Specific TIC	TestAmerica
TIC	1,2,3-Trimethylbenzene	526-73-8		✓			U.S. EPA Test Method 8270C and 8260B	TestAmerica
TIC	1,2,4-Trithiolane	289-16-7		✓			U.S. EPA Test Method 8270C and 8260B	TestAmerica
TIC	1,5-Dichloroanthracene	6406-96-8	✓				USEPA Method 8270C Specific TIC	TestAmerica

TABLE 2-1
SITE-RELATED CHEMICAL LIST

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

GROUP	CHEMICAL	CAS NUMBER	MONTROSE SRC	SMC SRC	WATER	SOIL	TEST METHOD	LABORATORY
TIC	1,8-Dichloroanthracene	14381-66-9	✓				USEPA Method 8270C Specific TIC	TestAmerica
TIC	1-Nitropropane	108-03-2	✓				USEPA Method 8260B Specific TIC	TestAmerica
TIC	2,2,2-Trichloroethanol	115-20-8	✓				USEPA Method 8260B Specific TIC	TestAmerica
TIC	2,3-Dichloroanthracene	613-07-0	✓				USEPA Method 8270C Specific TIC	TestAmerica
TIC	2,3-Dichlorostyrene	213-28-6	✓				USEPA Method 8270C Specific TIC	TestAmerica
TIC	2,4-Dichlorostyrene	21-27-5	✓				USEPA Method 8270C Specific TIC	TestAmerica
TIC	2,5-Dichlorostyrene	1123-84-8	✓				USEPA Method 8270C Specific TIC	TestAmerica
TIC	2,6-dichlorostyrene	28469-92-3	✓				USEPA Method 8270C Specific TIC	TestAmerica
TIC	2-Chloro benzenethiol	6320-03-2		✓			U.S. EPA Test Method 8270C and 8260B	TestAmerica
TIC	2-Chlorobenzyl chloride	611-19-8	✓				USEPA Method 8270C Specific TIC	TestAmerica
TIC	2-Nitropropane	79-46-9	✓				USEPA Method 8260B Specific TIC	TestAmerica
TIC	3,4-dichlorostyrene	2039-83-0	✓				USEPA Method 8270C Specific TIC	TestAmerica
TIC	3,5-Heptanedione, 2,6-Dimethyl	18362-64-6		✓			U.S. EPA Test Method 8270C and 8260B	TestAmerica
TIC	3-Chloro-Benzenethiol	2037-31-2		✓			U.S. EPA Test Method 8270C and 8260B	TestAmerica
TIC	3-Chlorobenzyl chloride	620-20-2	✓				USEPA Method 8270C Specific TIC	TestAmerica
TIC	3-Hexene-2,5-Dione (cis and trans)	4436-75-3		✓			U.S. EPA Test Method 8270C and 8260B	TestAmerica
TIC	4-Chloro benzoylchloride	122-01-0		✓			U.S. EPA Test Method 8270C and 8260B	TestAmerica
TIC	4-Chlorobenzaldehyde	104-88-1		✓			U.S. EPA Test Method 8270C and 8260B	TestAmerica
TIC	4-Chloro-benzoic Acid	26264-09-5		✓			U.S. EPA Test Method 8270C and 8260B	TestAmerica
TIC	4-Chlorobenzyl chloride	104-83-6	✓				USEPA Method 8270C Specific TIC	TestAmerica
TIC	9,10-Dichloroanthracene	605-48-1	✓				USEPA Method 8270C Specific TIC	TestAmerica
TIC	Alkane	NA	✓				USEPA Method 8260B TIC Analysis	TestAmerica
TIC	Alkyl Alkane	NA	✓				USEPA Method 8260B TIC Analysis	TestAmerica
TIC	Benzenesulfinothioic acid, phenylester	1208-20-4		✓			U.S. EPA Test Method 8270C and 8260B	TestAmerica
TIC	bis-(2-chlorophenylmethanone)	NA	✓				USEPA Method 8270C Specific TIC	TestAmerica
TIC	bis-(3-chlorophenylmethanone)	NA	✓				USEPA Method 8270C Specific TIC	TestAmerica
TIC	bis-(4-chlorophenylmethanone)	90-98-2	✓	✓			USEPA Method 8270C Specific TIC	TestAmerica
TIC	Chloroalkylbenzene	NA	✓				USEPA Methods 8260B or 8270C TIC Analysis	TestAmerica
TIC	Chloro-iodo-Benzene	615-41-8		✓			U.S. EPA Test Method 8270C and 8260B	TestAmerica
TIC	Chloromethyl phthalimide	17564-64-6		✓			U.S. EPA Test Method 8270C and 8260B	TestAmerica
TIC	Cyclododecene (CDEN)	1501-82-2	✓				USEPA Method 8270 Specific TIC	TestAmerica
TIC	Ethyl Ether	60-29-7	✓				USEPA Method 8260B Specific TIC	TestAmerica
TIC	Heptachlorostyrene	61255-81-0	✓				USEPA Method 8270C Specific TIC	TestAmerica
TIC	Hexachlorostyrene	61128-00-5	✓				USEPA Method 8270C Specific TIC	TestAmerica
TIC	Isoheptane	31394-54-4		✓			U.S. EPA Test Method 8270C and 8260B	TestAmerica
TIC	Methanone, (3-Chlorophenyl)(4-Chlorophenyl)	7498-66-0		✓			U.S. EPA Test Method 8270C and 8260B	TestAmerica
TIC	Methylsulfinyl benzene	1193-82-4		✓			U.S. EPA Test Method 8270C and 8260B	TestAmerica
TIC	Methylthio-Benzene	100-68-5		✓			U.S. EPA Test Method 8270C and 8260B	TestAmerica
TIC	O,O,A-Trimethlylester phosphorodithioic acid	2953-29-9		✓			U.S. EPA Test Method 8270C and 8260B	TestAmerica
TIC	Octasulfur	10544-50-0		✓			U.S. EPA Test Method 8270C and 8260B	TestAmerica
TIC	Paraformaldehyde	30525-89-4		✓			U.S. EPA Test Method 8270C and 8260B	TestAmerica
TIC	Pentachlorocyclohexane	22138-39-2	✓				USEPA Method 8270C Specific TIC	TestAmerica

TABLE 2-1
SITE-RELATED CHEMICAL LIST

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

GROUP	CHEMICAL	CAS NUMBER	MONTROSE SRC	SMC SRC	WATER	SOIL	TEST METHOD	LABORATORY
TIC	Pentachlorostyrene	83484-75-7	✓				USEPA Method 8270C Specific TIC	TestAmerica
TIC	Phthalimide	85-41-6		✓			U.S. EPA Test Method 8270C and 8260B	TestAmerica
TIC	Polyethylene Glycol	25322-68-3	✓				USEPA Methods 8260B and 8270C Specific TIC	TestAmerica
TIC	Sodium thiophenate	930-69-8		✓			U.S. EPA Test Method 8270C and 8260B	TestAmerica
TIC	Sulfenone	80-00-2		✓			U.S. EPA Test Method 8270C and 8260B	TestAmerica
TIC	Tetrachlorocyclohexane	129-00-0	✓	✓			USEPA Method 8270C Specific TIC	TestAmerica
TIC	Tetrachlorostyrene	NA	✓				USEPA Method 8270C Specific TIC	TestAmerica
TIC	Tetrachlorothiophene	6012-97-1		✓			U.S. EPA Test Method 8270C and 8260B	TestAmerica
TIC	Trichlorostyrene	NA	✓				USEPA Method 8270C Specific TIC	TestAmerica
TIC	Unknown	NA	✓				USEPA Method 8270C or 8260B TIC Evaluation	TestAmerica
TIC	Unknown Brominated Hydrocarbon	NA	✓				USEPA Method 8270C or 8260B TIC Evaluation	TestAmerica
TIC	Unknown Chlorinated Aromatics	NA	✓				USEPA Method 8270C or 8260B TIC Evaluation	TestAmerica
TIC	Unknown Chlorinated Benzene	NA	✓				USEPA Method 8270C or 8260B TIC Evaluation	TestAmerica
TIC	Unknown Chlorinated Compound	NA	✓				USEPA Method 8270C or 8260B TIC Evaluation	TestAmerica
TIC	Unknown Chlorinated Hydrocarbon	NA	✓				USEPA Method 8270C or 8260B TIC Evaluation	TestAmerica
TIC	Unknown Chlorinated Ketone	NA	✓				USEPA Method 8270C or 8260B TIC Evaluation	TestAmerica
TIC	Unknown Hydrocarbon	NA	✓				USEPA Method 8270C or 8260B TIC Evaluation	TestAmerica
TIC	Unknown Organic Acid	NA	✓				USEPA Method 8270C or 8260B TIC Evaluation	TestAmerica
VOC	1,1,1,2-Tetrachloroethane	630-20-6	✓		Y	Y	USEPA Method 8260B	TestAmerica
VOC	1,1,2,2-Tetrachloroethane	79-34-5	✓		Y	Y	USEPA Method 8260B	TestAmerica
VOC	1,1,2-Trichloroethane	79-00-5	✓		Y	Y	USEPA Method 8260B	TestAmerica
VOC	1,1-Dichloroethane	75-34-3	✓		Y	Y	USEPA Method 8260B	TestAmerica
VOC	1,1-Dichloroethene	75-35-4	✓		Y	Y	USEPA Method 8260B	TestAmerica
VOC	1,1-Dichloropropene	563-58-6	✓				USEPA Method 8260B	TestAmerica
VOC	1,2,3-Trichlorobenzene	87-61-6	✓	✓	Y	Y	USEPA Methods 8260B and 8270C	TestAmerica
VOC	1,2,3-Trichloropropane	96-18-4	✓				USEPA Method 8260B	TestAmerica
VOC	1,2,4-Trichlorobenzene	120-82-1	✓	✓			USEPA Methods 8260B and 8270C	TestAmerica
VOC	1,2,4-Trimethylbenzene	95-63-6	✓	✓			USEPA Method 8260B	TestAmerica
VOC	1,2-Dichlorobenzene	95-50-1	✓	✓	Y	Y	USEPA Methods 8260B and 8270C	TestAmerica
VOC	1,2-Dichloroethane	107-06-2	✓		Y	Y	USEPA Method 8260B	TestAmerica
VOC	1,3,5-Trichlorobenzene	108-70-3	✓	✓			USEPA Methods 8260B and 8270C	TestAmerica
VOC	1,3,5-Trimethylbenzene	108-67-8	✓	✓			USEPA Method 8260B	TestAmerica
VOC	1,3-Dichlorobenzene	541-73-1	✓	✓	Y	Y	USEPA Methods 8260B and 8270C	TestAmerica
VOC	1,3-Dichloropropane	142-28-9	✓				USEPA Method 8260B	TestAmerica
VOC	1,4-Dichlorobenzene	106-46-7	✓	✓	Y	Y	USEPA Methods 8260B and 8270C	TestAmerica
VOC	1-Methylethylbenzene	98-82-8	✓		Y	Y	USEPA Method 8260B	TestAmerica
VOC	2,2,3-Trimethylbutane	464-06-2		✓			U.S. EPA Test Method 8260B	TestAmerica
VOC	2,2-Dimethylpentane	590-35-2		✓			U.S. EPA Test Method 8260B	TestAmerica
VOC	2,3-Dimethylpentane	565-59-3		✓			U.S. EPA Test Method 8260B	TestAmerica
VOC	2,4-Dimethylpentane	108-08-7		✓			U.S. EPA Test Method 8260B	TestAmerica
VOC	2-Butanone	78-93-3	✓		Y	Y	USEPA Method 8260B	TestAmerica
VOC	2-Chlorotoluene	95-49-8	✓				USEPA Method 8260B	TestAmerica

TABLE 2-1
SITE-RELATED CHEMICAL LIST

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

GROUP	CHEMICAL	CAS NUMBER	MONTROSE SRC	SMC SRC	WATER	SOIL	TEST METHOD	LABORATORY
VOC	2-Hexanone	591-78-6	✓		Y	Y	USEPA Method 8260B	TestAmerica
VOC	2-Methylhexane	591-76-4		✓			U.S. EPA Test Method 8260B	TestAmerica
VOC	3,3-Dimethylpentane	562-49-2		✓			U.S. EPA Test Method 8260B	TestAmerica
VOC	3-Chlorobenzoic Acid	535-80-8	✓					TestAmerica
VOC	3-Ethylpentane	617-78-7		✓			U.S. EPA Test Method 8260B	TestAmerica
VOC	3-Methylhexane	589-34-4		✓			U.S. EPA Test Method 8260B	TestAmerica
VOC	4-Chlorobenzoic Acid	74-11-3	✓					TestAmerica
VOC	4-Chlorotoluene	106-43-4	✓				USEPA Method 8260B	TestAmerica
VOC	4-methyl-2-pentanone	108-10-1	✓		Y	Y	USEPA Method 8260B	TestAmerica
VOC	Acetone	67-64-1	✓	✓	Y	Y	USEPA Method 8260B	TestAmerica
VOC	Benzene	71-43-2	✓	✓	Y	Y	USEPA Method 8260B	TestAmerica
VOC	Bromobenzene	108-86-1	✓		Y	Y	USEPA Method 8260B	TestAmerica
VOC	Bromochloromethane	74-97-5	✓		Y	Y	USEPA Method 8260B	TestAmerica
VOC	Bromoform	75-25-2	✓		Y	Y	USEPA Method 8260B	TestAmerica
VOC	Carbon disulfide	75-15-0		✓			U.S. EPA Test Method 8260B	TestAmerica
VOC	Carbon Tetrachloride	56-23-5	✓	✓	Y	Y	USEPA Method 8260B	TestAmerica
VOC	Chlorobenzene	108-90-7	✓	✓	Y	Y	USEPA Method 8260B	TestAmerica
VOC	Chloroform	67-66-3	✓	✓	Y	Y	U.S. EPA Test Method 8260B	TestAmerica
VOC	Chloromethane	74-87-3	✓		Y	Y	USEPA Method 8260B	TestAmerica
VOC	cis-1,2-Dichloroethene	156-59-2	✓		Y	Y	USEPA Method 8260B	TestAmerica
VOC	Dibromochloroethane	73506-94-2	✓				USEPA Method 8260B	TestAmerica
VOC	Dibromochloromethane	124-48-1	✓		Y	Y	USEPA Method 8260B	TestAmerica
VOC	Dibromochloropropane (DBCP)	96-12-8	✓		Y	Y	USEPA Method 8260B	TestAmerica
VOC	Dichlorodifluoromethane	75-71-8	✓		Y	Y	USEPA Method 8260B	TestAmerica
VOC	Dimethyldisulfide	624-92-0		✓			U.S. EPA Test Method 8260B	TestAmerica
VOC	Ethyl Alcohol (Ethanol)	64-17-5	✓	✓			USEPA Method 8260B	TestAmerica
VOC	Ethyl Chloride	75-00-3	✓		Y	Y	USEPA Method 8260B	TestAmerica
VOC	Ethylbenzene	100-41-4	✓		Y	Y	USEPA Method 8260B	TestAmerica
VOC	Hexachlorobutadiene	87-68-3	✓	✓	Y	Y	USEPA Method 8260B	TestAmerica
VOC	Isopropyl toluene	25155-15-1	✓				USEPA Method 8260B	TestAmerica
VOC	m,p-Xylene	136777-61-2		✓	Y	Y	U.S. EPA Test Method 8260B	TestAmerica
VOC	Methanol (Methyl alcohol)	67-56-1		✓			U.S. EPA Test Method 8015B	TestAmerica
VOC	Methylene Chloride	75-09-2	✓	✓	Y	Y	USEPA Method 8260B	TestAmerica
VOC	Naphthalene	91-20-3	✓	✓	Y	Y	USEPA Methods 8260B and 8270C	TestAmerica
VOC	n-Butyl benzene	104-51-8	✓				USEPA Method 8260B	TestAmerica
VOC	n-Heptane	142-82-5		✓			U.S. EPA Test Method 8260B	TestAmerica
VOC	Nonanal	124-19-6		✓			U.S. EPA Test Method 8260B	TestAmerica
VOC	n-Propyl benzene	103-65-1	✓				USEPA Method 8260B	TestAmerica
VOC	Rubber hydrocarbon solvent	64475-85-0	✓		Y	Y	USEPA Method 8015B Modified	TestAmerica
VOC	sec-Butyl benzene	135-98-8	✓				USEPA Method 8260B	TestAmerica
VOC	Styrene	100-42-5	✓				USEPA Method 8260B	TestAmerica
VOC	tert-Butyl benzene	98-06-6	✓				USEPA Method 8260B	TestAmerica

TABLE 2-1
SITE-RELATED CHEMICAL LIST

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

GROUP	CHEMICAL	CAS NUMBER	MONTROSE SRC	SMC SRC	WATER	SOIL	TEST METHOD	LABORATORY
VOC	Tetrachloroethene (PCE)	127-18-4	✓		Y	Y	USEPA Method 8260B	TestAmerica
VOC	Toluene	108-88-3	✓	✓	Y	Y	USEPA Method 8260B	TestAmerica
VOC	trans-1,2-Dichloroethene	156-60-5	✓		Y	Y	USEPA Method 8260B	TestAmerica
VOC	trans-1,3-Dichloropropene	10061-02-6	✓		Y	Y	USEPA Method 8260B	TestAmerica
VOC	Trichloroethene (TCE)	79-01-6	✓		Y	Y	USEPA Method 8260B	TestAmerica
VOC	Trichlorofluoromethane	75-69-4	✓		Y	Y	USEPA Method 8260B	TestAmerica
VOC	Vinyl chloride	75-01-4	✓		Y	Y	USEPA Method 8260B	TestAmerica
VOC	Xylene (o)	1330-20-7	✓	✓	Y	Y	USEPA Method 8260B	TestAmerica
VOC	Xylenes (m,p)	1330-20-7	✓	✓	Y	Y	USEPA Method 8260B	TestAmerica

Notes:
CAS - Chemical Abstract Service
SRC - Site-related chemical
SMC - Stauffer Management Company
USEPA - United States Environmental Protection Agency
TEM - Transmission electron microscopy
NA - Not Applicable due to impractible analysis or certification does not exist
PCB - Poly Chlorinated Biphenyl
SVOC - Semi-volatile organic compound
TIC -Tentatively identified compound
VOC - Volatile organic compound

Sources:
PES Environmental, Inc. [PES], 2006aa, Evaluation of Site-Related Chemicals, Former Stauffer Chemical Company Facility, Henderson, Nevada. June 1, 2006.
PES, 2006ab. Evaluation of Site-Related Chemicals, Former Montrose Chemical Corporation Facility, Henderson, Nevada. June 1, 2006.

TABLE 3-1
SOIL BORINGS AND SAMPLE DEPTHS

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

BORING IDENTIFIER	NORTHING	EASTING	GROUND SURFACE ELEVATION (feet msl)	SAMPLE DATE	SAMPLE DEPTH (feet bgs)	SAMPLE DESIGNATION	FACILITY
CPA-01D	26,715,156	825,119	1,849.27	11/7/06	5	Vadose Zone	Montrose
				11/7/06	10	Vadose Zone	Montrose
				11/8/06	20	Vadose Zone	Montrose
				11/8/06	30	Vadose Zone	Montrose
				11/8/06	40	Vadose Zone	Montrose
				11/8/06	50	Vadose Zone	Montrose
CPA-02D	26,715,654	825,035	1,841.62	11/14/06	5	Vadose Zone	Montrose
				11/14/06	10	Vadose Zone	Montrose
				11/14/06	20	Vadose Zone	Montrose
				11/14/06	30	Vadose Zone	Montrose
				11/15/06	40	Vadose Zone	Montrose
				11/15/06	50	Vadose Zone	Montrose
CPA-03D	26,715,928	825,009	1,836.07	11/15/06	5	Vadose Zone	Montrose
				11/15/06	10	Vadose Zone	Montrose
				11/15/06	20	Vadose Zone	Montrose
				11/15/06	30	Vadose Zone	Montrose
				11/15/06	40	Vadose Zone	Montrose
				11/15/06	50	Vadose Zone	Montrose
CPA-04D	26,716,148	825,139	1,831.34	11/16/06	5	Vadose Zone	Montrose
				11/16/06	10	Vadose Zone	Montrose
				11/16/06	20	Vadose Zone	Montrose
				11/16/06	30	Vadose Zone	Montrose
				11/16/06	40	Vadose Zone	Montrose
				11/16/06	50	Vadose Zone	Montrose
CPA-05D	26,716,146	825,656	1,829.14	11/16/06	0.25	Vadose Zone	Montrose
				11/16/06	0.5	Vadose Zone	Montrose
				11/16/06	5	Vadose Zone	Montrose
				11/16/06	10	Vadose Zone	Montrose
				11/16/06	20	Vadose Zone	Montrose
				11/16/06	30	Vadose Zone	Montrose
				11/16/06	40	Vadose Zone	Montrose
				11/16/06	50	Vadose Zone	Montrose
CPA-06D	26,715,896	825,846	1,835.06	11/17/06	5	Vadose Zone	Montrose
				11/17/06	10	Vadose Zone	Montrose
				11/17/06	20	Vadose Zone	Montrose
				11/17/06	30	Vadose Zone	Montrose
				11/17/06	40	Vadose Zone	Montrose
				11/17/06	50	Vadose Zone	Montrose
CPA-07D	26,715,733	825,862	1,839.02	11/27/06	5	Vadose Zone	Montrose
				11/27/06	10	Vadose Zone	Montrose
				11/27/06	20	Vadose Zone	Montrose
				11/27/06	30	Vadose Zone	Montrose
				11/27/06	40	Vadose Zone	Montrose
				11/27/06	50	Vadose Zone	Montrose
CPA-08D	26,715,368	825,899	1,845.30	11/27/06	5	Vadose Zone	Montrose
				11/27/06	10	Vadose Zone	Montrose
				11/27/06	20	Vadose Zone	Montrose
				11/27/06	30	Vadose Zone	Montrose
				11/27/06	40	Vadose Zone	Montrose
				11/27/06	50	Vadose Zone	Montrose
CPA-09S	26,715,388	825,063	1,845.01	11/8/06	0.25	Vadose Zone	Montrose
				11/8/06	0.5	Vadose Zone	Montrose
				11/8/06	5	Vadose Zone	Montrose
				11/8/06	10	Vadose Zone	Montrose
CPA-10S	26,715,759	825,028	1,839.79	11/15/06	0.25	Vadose Zone	Montrose
				11/15/06	0.5	Vadose Zone	Montrose
				11/15/06	5	Vadose Zone	Montrose
				11/15/06	10	Vadose Zone	Montrose
CPA-11S	26,716,024	825,452	1,834.92	12/18/06	0.5	Vadose Zone	Montrose
CPA-12S	26,715,640	825,870	1,841.30	11/17/06	0.25	Vadose Zone	Montrose
				11/17/06	0.5	Vadose Zone	Montrose
				11/17/06	5	Vadose Zone	Montrose
				11/17/06	10	Vadose Zone	Montrose
ETB-01	26,716,883	825,858	1,809.87	7/29/04	17	Vadose Zone	Montrose

TABLE 3-1
SOIL BORINGS AND SAMPLE DEPTHS

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

BORING IDENTIFIER	NORTHING	EASTING	GROUND SURFACE ELEVATION (feet msl)	SAMPLE DATE	SAMPLE DEPTH (feet bgs)	SAMPLE DESIGNATION	FACILITY
FBT-01	26,717,886	824,563		12/20/96	6	Vadose Zone	Montrose
FBT-02	26,717,854	824,521		12/20/96	6	Vadose Zone	Montrose
FBT-03D	26,717,808	824,561	1,795.99	11/6/06	10	Vadose Zone	Montrose
				11/6/06	20	Vadose Zone	Montrose
				11/6/06	30	Vadose Zone	Montrose
				11/6/06	40	Vadose Zone	Montrose
				11/6/06	50	Vadose Zone	Montrose
FPS-01	26,717,096	825,632	--	12/18/96	6	Vadose Zone	Montrose
				12/18/96	10	Vadose Zone	Montrose
				6/4/97	20	Vadose Zone	Montrose
				6/4/97	30	Vadose Zone	Montrose
				6/4/97	40	Vadose Zone	Montrose
FPS-01S	26,717,056	825,638	1,809.13	12/18/06	0.5	Vadose Zone	Montrose
				12/18/06	5	Vadose Zone	Montrose
				12/18/06	10	Vadose Zone	Montrose
FPS-02	26,717,110	825,727	--	12/19/96	2	Vadose Zone	Montrose
				12/19/96	10	Vadose Zone	Montrose
FPS-02D	26,717,095	825,735	1,809.53	12/14/06	0.5	Vadose Zone	Montrose
				12/14/06	2	Vadose Zone	Montrose
				12/14/06	5	Vadose Zone	Montrose
				12/14/06	10	Vadose Zone	Montrose
				12/14/06	20	Vadose Zone	Montrose
				12/14/06	30	Vadose Zone	Montrose
				12/14/06	40	Vadose Zone	Montrose
				12/14/06	45	Vadose Zone	Montrose
				12/14/06	50	Vadose Zone	Montrose
FPS-03	26,717,083	825,646	--	12/17/96	6	Vadose Zone	Montrose
				12/17/96	10	Vadose Zone	Montrose
FPS-04	26,717,047	825,687	--	12/18/96	1	Vadose Zone	Montrose
				12/18/96	2	Vadose Zone	Montrose
				12/18/96	10	Vadose Zone	Montrose
				6/4/97	20	Vadose Zone	Montrose
				6/4/97	30	Vadose Zone	Montrose
				6/4/97	40	Vadose Zone	Montrose
FPS-04S	26,717,016	825,709	1,811.52	12/18/06	0.5	Vadose Zone	Montrose
				12/18/06	5	Vadose Zone	Montrose
				12/18/06	10	Vadose Zone	Montrose
FPS-05	26,717,056	825,800	--	12/18/96	6	Vadose Zone	Montrose
				12/18/96	10	Vadose Zone	Montrose
FPS-06	26,716,995	825,640	--	12/19/96	2	Vadose Zone	Montrose
				12/19/96	10	Vadose Zone	Montrose
				6/3/97	20	Vadose Zone	Montrose
				6/3/97	30	Vadose Zone	Montrose
				6/3/97	40	Vadose Zone	Montrose
FPS-06S	26,716,980	825,644	1,809.69	12/15/06	0.5	Vadose Zone	Montrose
				12/15/06	5	Vadose Zone	Montrose
				12/15/06	10	Vadose Zone	Montrose
FPS-07	26,716,997	825,664	--	12/18/96	1	Vadose Zone	Montrose
				12/18/96	2	Vadose Zone	Montrose
				12/18/96	10	Vadose Zone	Montrose
FPS-08	26,716,997	825,746	--	12/18/96	2	Vadose Zone	Montrose
				12/18/96	10	Vadose Zone	Montrose
FPS-08D	26,716,981	825,748	1,812.15	12/13/06	0.5	Vadose Zone	Montrose
				12/13/06	2	Vadose Zone	Montrose
				12/13/06	5	Vadose Zone	Montrose
				12/13/06	10	Vadose Zone	Montrose
				12/13/06	20	Vadose Zone	Montrose
				12/13/06	30	Vadose Zone	Montrose
				12/13/06	40	Vadose Zone	Montrose
				12/13/06	45	Vadose Zone	Montrose
				12/13/06	50	Vadose Zone	Montrose
FPS-09	26,716,918	825,700	--	12/17/96	6	Vadose Zone	Montrose
				12/17/96	10	Vadose Zone	Montrose

TABLE 3-1
SOIL BORINGS AND SAMPLE DEPTHS

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

BORING IDENTIFIER	NORTHING	EASTING	GROUND SURFACE ELEVATION (feet msl)	SAMPLE DATE	SAMPLE DEPTH (feet bgs)	SAMPLE DESIGNATION	FACILITY
FPS-09D	26,716,903	825,709	1,811.12	12/11/06	0.5	Vadose Zone	Montrose
				12/11/06	5	Vadose Zone	Montrose
				12/11/06	10	Vadose Zone	Montrose
				12/11/06	20	Vadose Zone	Montrose
				12/11/06	30	Vadose Zone	Montrose
				12/12/06	40	Vadose Zone	Montrose
				12/12/06	45	Vadose Zone	Montrose
				12/12/06	50	Vadose Zone	Montrose
FPS-10	26,716,935	825,818	--	12/17/96	1	Vadose Zone	Montrose
				12/17/96	2	Vadose Zone	Montrose
				12/17/96	10	Vadose Zone	Montrose
FPS-11	26,716,847	825,652	--	12/17/96	6	Vadose Zone	Montrose
				12/17/96	10	Vadose Zone	Montrose
				6/2/97	20	Vadose Zone	Montrose
				6/3/97	30	Vadose Zone	Montrose
				6/3/97	40	Vadose Zone	Montrose
FPS-11S	26,716,829	825,665	1,809.97	12/11/06	0.5	Vadose Zone	Montrose
				12/11/06	2	Vadose Zone	Montrose
				12/11/06	5	Vadose Zone	Montrose
				12/11/06	10	Vadose Zone	Montrose
FPS-12	26,716,865	825,766		12/17/96	2	Vadose Zone	Montrose
				12/17/96	10	Vadose Zone	Montrose
FPS-12D	26,716,851	825,775	1,812.73	12/11/06	0.5	Vadose Zone	Montrose
				12/11/06	5	Vadose Zone	Montrose
				12/11/06	10	Vadose Zone	Montrose
				12/11/06	20	Vadose Zone	Montrose
				12/11/06	30	Vadose Zone	Montrose
				12/11/06	40	Vadose Zone	Montrose
				12/11/06	45	Vadose Zone	Montrose
				12/11/06	50	Vadose Zone	Montrose
FPS-13	26,716,881	825,869	--	12/17/96	15	Vadose Zone	Montrose
				12/17/95	21	Vadose Zone	Montrose
FPS-13D2	26,716,908	825,865	--	6/3/97	20	Vadose Zone	Montrose
				6/3/97	30	Vadose Zone	Montrose
				6/3/97	40	Vadose Zone	Montrose
FPS-14	26,716,796	825,714	--	12/17/96	1	Vadose Zone	Montrose
				12/17/96	6	Vadose Zone	Montrose
				12/17/96	10	Vadose Zone	Montrose
FPS-14D	26,716,780	825,714	1,811.37	12/7/06	0.5	Vadose Zone	Montrose
				12/7/06	5	Vadose Zone	Montrose
				12/7/06	10	Vadose Zone	Montrose
				12/7/06	20	Vadose Zone	Montrose
				12/7/06	30	Vadose Zone	Montrose
				12/7/06	40	Vadose Zone	Montrose
				12/7/06	45	Vadose Zone	Montrose
				12/7/06	50	Vadose Zone	Montrose
FPS-15	26,716,808	825,828	--	12/18/96	6	Vadose Zone	Montrose
				12/18/96	10	Vadose Zone	Montrose
FPS-16	26,716,761	825,783	--	12/17/96	2	Vadose Zone	Montrose
				12/17/96	10	Vadose Zone	Montrose
FPS-16S	26,716,760	825,792	1,812.14	12/11/06	0.5	Vadose Zone	Montrose
				12/11/06	2	Vadose Zone	Montrose
				12/11/06	5	Vadose Zone	Montrose
				12/11/06	10	Vadose Zone	Montrose
FPS-17	26,716,985	825,842	--	12/19/96	1	Vadose Zone	Montrose
				12/19/96	2	Vadose Zone	Montrose
				12/19/96	10	Vadose Zone	Montrose
FPS-18D	26,716,778	825,593	1,813.53	12/13/06	5	Vadose Zone	Montrose
				12/13/06	10	Vadose Zone	Montrose
				12/13/06	20	Vadose Zone	Montrose
				12/13/06	30	Vadose Zone	Montrose
				12/13/06	40	Vadose Zone	Montrose
				12/13/06	50	Vadose Zone	Montrose

TABLE 3-1
SOIL BORINGS AND SAMPLE DEPTHS

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

BORING IDENTIFIER	NORTHING	EASTING	GROUND SURFACE ELEVATION (feet msl)	SAMPLE DATE	SAMPLE DEPTH (feet bgs)	SAMPLE DESIGNATION	FACILITY
FPS-19D	26,716,993	825,532	1,810.04	12/15/06	5	Vadose Zone	Montrose
				12/15/06	10	Vadose Zone	Montrose
				12/15/06	20	Vadose Zone	Montrose
				12/15/06	30	Vadose Zone	Montrose
				12/15/06	40	Vadose Zone	Montrose
				12/15/06	45	Vadose Zone	Montrose
				12/15/06	50	Vadose Zone	Montrose
FPS-20D	26,717,094	825,541	1,808.90	12/14/06	5	Vadose Zone	Montrose
				12/14/06	10	Vadose Zone	Montrose
				12/14/06	20	Vadose Zone	Montrose
				12/14/06	30	Vadose Zone	Montrose
				12/14/06	40	Vadose Zone	Montrose
				12/14/06	50	Vadose Zone	Montrose
FPS-21D	26,717,111	825,688	1,808.76	12/18/06	5	Vadose Zone	Montrose
				12/18/06	10	Vadose Zone	Montrose
				12/18/06	20	Vadose Zone	Montrose
				12/18/06	30	Vadose Zone	Montrose
				12/18/06	40	Vadose Zone	Montrose
				12/18/06	45	Vadose Zone	Montrose
				12/18/06	50	Vadose Zone	Montrose
FPS-22D	26,716,691	825,339	1,813.33	12/12/06	5	Vadose Zone	Montrose
				12/12/06	10	Vadose Zone	Montrose
				12/12/06	20	Vadose Zone	Montrose
				12/12/06	30	Vadose Zone	Montrose
				12/12/06	40	Vadose Zone	Montrose
				12/12/06	50	Vadose Zone	Montrose
FTF-01	26,716,516	825,255	--	12/19/96	2	Vadose Zone	Montrose
				12/19/96	10	Vadose Zone	Montrose
FTF-02	26,716,528	825,354	--	12/19/96	6	Vadose Zone	Montrose
				12/19/96	10	Vadose Zone	Montrose
FTF-03	26,716,525	825,469	--	12/19/96	6	Vadose Zone	Montrose
				12/19/96	10	Vadose Zone	Montrose
FTF-04	26,716,543	825,582	--	12/19/96	6	Vadose Zone	Montrose
				12/19/96	10	Vadose Zone	Montrose
FTF-05	26,716,433	825,411	--	12/19/96	2	Vadose Zone	Montrose
				12/19/96	10	Vadose Zone	Montrose
FTF-06	26,716,430	825,536	--	12/19/96	6	Vadose Zone	Montrose
				12/19/96	10	Vadose Zone	Montrose
FTF-07D	26,716,484	825,400	1,822.82	12/4/06	10	Vadose Zone	Montrose
				12/4/06	20	Vadose Zone	Montrose
				12/4/06	30	Vadose Zone	Montrose
				12/4/06	40	Vadose Zone	Montrose
				12/4/06	45	Vadose Zone	Montrose
				12/4/06	50	Vadose Zone	Montrose
FTF-08D	26,716,399	825,564	1,823.91	12/4/06	10	Vadose Zone	Montrose
				12/4/06	20	Vadose Zone	Montrose
				12/4/06	30	Vadose Zone	Montrose
				12/4/06	40	Vadose Zone	Montrose
				12/4/06	50	Vadose Zone	Montrose
FTF-09D	26,716,504	825,606	1,821.96	11/29/06	10	Vadose Zone	Montrose
				11/29/06	20	Vadose Zone	Montrose
				11/29/06	30	Vadose Zone	Montrose
				11/29/06	40	Vadose Zone	Montrose
				11/29/06	45	Vadose Zone	Montrose
				11/29/06	50	Vadose Zone	Montrose
FTF-10D	26,716,512	825,538	1,821.87	11/30/06	10	Vadose Zone	Montrose
				11/30/06	20	Vadose Zone	Montrose
				11/30/06	30	Vadose Zone	Montrose
				11/30/06	40	Vadose Zone	Montrose
				11/30/06	45	Vadose Zone	Montrose
				11/30/06	50	Vadose Zone	Montrose

TABLE 3-1
SOIL BORINGS AND SAMPLE DEPTHS

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

BORING IDENTIFIER	NORTHING	EASTING	GROUND SURFACE ELEVATION (feet msl)	SAMPLE DATE	SAMPLE DEPTH (feet bgs)	SAMPLE DESIGNATION	FACILITY
FTF-11D	26,716,567	825,648	1,820.71	12/6/06	10	Vadose Zone	Montrose
				12/6/06	20	Vadose Zone	Montrose
				12/7/06	30	Vadose Zone	Montrose
				12/7/06	40	Vadose Zone	Montrose
				12/7/06	45	Vadose Zone	Montrose
				12/7/06	50	Vadose Zone	Montrose
FTF-12D	26,716,452	825,223	1,824.92	11/28/06	10	Vadose Zone	Montrose
				11/28/06	20	Vadose Zone	Montrose
				11/28/06	30	Vadose Zone	Montrose
				11/28/06	40	Vadose Zone	Montrose
				11/28/06	47	Vadose Zone	Montrose
FTF-13D	26,716,439	825,401	1,823.97	11/30/06	10	Vadose Zone	Montrose
				11/30/06	20	Vadose Zone	Montrose
				11/30/06	30	Vadose Zone	Montrose
				12/1/06	40	Vadose Zone	Montrose
				12/1/06	50	Vadose Zone	Montrose
FTF-14S	26,716,500	825,205	1,822.26	11/29/06	0.5	Vadose Zone	Montrose
				11/29/06	5	Vadose Zone	Montrose
				11/29/06	10	Vadose Zone	Montrose
FTF-15S	26,716,464	825,371	1,823.35	11/29/06	0.5	Vadose Zone	Montrose
				11/29/06	5	Vadose Zone	Montrose
				11/29/06	10	Vadose Zone	Montrose
FTF-16S	26,716,525	825,385	1,821.85	11/29/06	0.25	Vadose Zone	Montrose
				11/29/06	0.5	Vadose Zone	Montrose
				11/29/06	5	Vadose Zone	Montrose
				11/29/06	10	Vadose Zone	Montrose
FTF-17S	26,716,479	825,545	1,821.99	11/29/06	0.5	Vadose Zone	Montrose
				11/29/06	5	Vadose Zone	Montrose
				11/29/06	10	Vadose Zone	Montrose
FTF-18S	26,716,379	825,623	1,824.62	12/1/06	0.5	Vadose Zone	Montrose
				12/1/06	5	Vadose Zone	Montrose
				12/1/06	10	Vadose Zone	Montrose
FTF-19S	26,716,499	825,712	1,822.10	12/1/06	0.5	Vadose Zone	Montrose
				12/1/06	5	Vadose Zone	Montrose
				12/1/06	10	Vadose Zone	Montrose
FTF-20S	26,716,331	825,851	1,826.63	12/1/06	0.25	Vadose Zone	Montrose
				12/1/06	0.5	Vadose Zone	Montrose
				12/1/06	5	Vadose Zone	Montrose
				12/1/06	10	Vadose Zone	Montrose
FTF-21D	26,715,986	826,214	1,833.37	11/7/06	10	Vadose Zone	Montrose
				11/7/06	20	Vadose Zone	Montrose
				11/7/06	30	Vadose Zone	Montrose
				11/7/06	40	Vadose Zone	Montrose
				11/7/06	50	Vadose Zone	Montrose
MC-MW-09	26,716,752	825,795	1,812.62	9/18/06	75	Saturated Zone	Montrose
				9/18/06	85	Saturated Zone	Montrose
				9/18/06	93	Saturated Zone	Montrose
				9/18/06	95	Saturated Zone	Montrose
				9/18/06	98	Saturated Zone	Montrose
				9/18/06	105	Saturated Zone	Montrose
				9/18/06	115	Saturated Zone	Montrose
				9/18/06	125	Saturated Zone	Montrose
				9/18/06	135	Saturated Zone	Montrose
				9/18/06	145	Saturated Zone	Montrose
MC-MW-10	26,717,919	825,524	1,801.21	9/20/06	85	Saturated Zone	Montrose
				9/20/06	87	Saturated Zone	Montrose
				9/20/06	95	Saturated Zone	Montrose
				9/20/06	105	Saturated Zone	Montrose
				9/20/06	115	Saturated Zone	Montrose
				9/20/06	125	Saturated Zone	Montrose
				9/20/06	135	Saturated Zone	Montrose
				9/21/06	147	Saturated Zone	Montrose
				9/21/06	155	Saturated Zone	Montrose

TABLE 3-1
SOIL BORINGS AND SAMPLE DEPTHS

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

BORING IDENTIFIER	NORTHING	EASTING	GROUND SURFACE ELEVATION (feet msl)	SAMPLE DATE	SAMPLE DEPTH (feet bgs)	SAMPLE DESIGNATION	FACILITY
MC-MW-11	26,717,766	824,860	1,801.94	9/25/06	100	Saturated Zone	Montrose
				9/25/06	110	Saturated Zone	Montrose
				9/25/06	120	Saturated Zone	Montrose
				9/25/06	130	Saturated Zone	Montrose
				9/25/06	140	Saturated Zone	Montrose
				9/25/06	150	Saturated Zone	Montrose
MC-MW-12	26,717,903	826,294	1,797.38	9/27/06	75	Saturated Zone	Montrose
			1,797.38	9/27/06	85	Saturated Zone	Montrose
				9/27/06	95	Saturated Zone	Montrose
				9/27/06	105	Saturated Zone	Montrose
				9/27/06	106	Saturated Zone	Montrose
				9/27/06	108	Saturated Zone	Montrose
				9/27/06	114	Saturated Zone	Montrose
				9/27/06	115	Saturated Zone	Montrose
				9/27/06	125	Saturated Zone	Montrose
MC-MW-15	26,718,416	825,512	--	4/16/07	10	Vadose Zone	Montrose
				4/16/07	20	Vadose Zone	Montrose
				4/16/07	30	Vadose Zone	Montrose
				4/16/07	40	Vadose Zone	Montrose
				4/16/07	50	Saturated Zone	Montrose
				4/16/07	60	Saturated Zone	Montrose
				4/16/07	70	Saturated Zone	Montrose
				4/16/07	80	Saturated Zone	Montrose
				4/17/07	90	Saturated Zone	Montrose
				4/17/07	100	Saturated Zone	Montrose
				4/17/07	110	Saturated Zone	Montrose
				4/17/07	120	Saturated Zone	Montrose
				4/17/07	130	Saturated Zone	Montrose
				4/17/07	140	Saturated Zone	Montrose
				4/17/07	150	Saturated Zone	Montrose
MSA-01	26,716,678	825,224	--	12/18/96	6	Vadose Zone	Montrose
MSA-02	26,716,701	825,386	--	12/18/96	6	Vadose Zone	Montrose
MW-08	26,717,925	825,565	1,800.95	8/24/04	161	Vadose Zone	Montrose
				8/24/04	171	Vadose Zone	Montrose
				8/24/04	181	Vadose Zone	Montrose
				8/24/04	191	Vadose Zone	Montrose
				8/24/04	201	Vadose Zone	Montrose
				8/24/04	211	Vadose Zone	Montrose
				8/24/04	221	Vadose Zone	Montrose
				8/24/04	231	Vadose Zone	Montrose
				8/24/04	241	Vadose Zone	Montrose
				8/24/04	251	Vadose Zone	Montrose
				8/24/04	261	Vadose Zone	Montrose
				8/25/04	271	Vadose Zone	Montrose
				8/25/04	280	Vadose Zone	Montrose
				8/25/04	291	Vadose Zone	Montrose
				8/25/04	301	Vadose Zone	Montrose
PSS-01	26,716,717	825,684	--	12/19/96	10	Vadose Zone	Montrose
PSS-02	26,716,596	825,414	--	12/20/96	6	Vadose Zone	Montrose
				12/20/96	10	Vadose Zone	Montrose
PSS-03	26,716,433	825,447		12/19/96	10	Vadose Zone	Montrose
PSS-04S	26,716,729	825,577	1,813.10	12/12/06	0.5	Vadose Zone	Montrose
				12/12/06	5	Vadose Zone	Montrose
				12/12/06	10	Vadose Zone	Montrose
				12/12/06	20	Vadose Zone	Montrose

TABLE 3-1
SOIL BORINGS AND SAMPLE DEPTHS

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

BORING IDENTIFIER	NORTHING	EASTING	GROUND SURFACE ELEVATION (feet msl)	SAMPLE DATE	SAMPLE DEPTH (feet bgs)	SAMPLE DESIGNATION	FACILITY
RB-01	26,717,093	825,902	1,809.20	10/13/06	1	Vadose Zone	Montrose
				10/13/06	10	Vadose Zone	Montrose
				10/13/06	20	Vadose Zone	Montrose
				10/13/06	30	Vadose Zone	Montrose
				10/13/06	40	Vadose Zone	Montrose
				10/13/06	50	Vadose Zone_AA	Montrose
				10/16/06	60	Saturated Zone	Montrose
				10/16/06	70	Saturated Zone	Montrose
				10/16/06	72	Saturated Zone	Montrose
				10/16/06	80	Saturated Zone	Montrose
				10/16/06	90	Saturated Zone	Montrose
				10/16/06	96	Saturated Zone	Montrose
				10/16/06	100	Saturated Zone	Montrose
				10/16/06	110	Saturated Zone	Montrose
				10/16/06	114	Saturated Zone	Montrose
				10/16/06	120	Saturated Zone	Montrose
				10/16/06	130	Saturated Zone	Montrose
				10/16/06	140	Saturated Zone	Montrose
				10/16/06	150	Saturated Zone	Montrose
				10/17/06	160	Saturated Zone	Montrose
				10/17/06	170	Saturated Zone	Montrose
RB-02	26,717,351	825,686	1,808.17	10/18/06	1	Vadose Zone	Montrose
				10/18/06	10	Vadose Zone	Montrose
				10/18/06	20	Vadose Zone	Montrose
				10/18/06	30	Vadose Zone	Montrose
				10/18/06	40	Vadose Zone	Montrose
				10/18/06	50	Saturated Zone	Montrose
				10/18/06	60	Saturated Zone	Montrose
				10/18/06	70	Saturated Zone	Montrose
				10/18/06	80	Saturated Zone	Montrose
				10/18/06	90	Saturated Zone	Montrose
				10/18/06	100	Saturated Zone	Montrose
				10/18/06	106	Saturated Zone	Montrose
				10/18/06	110	Saturated Zone	Montrose
				10/18/06	120	Saturated Zone	Montrose
				10/19/06	130	Saturated Zone	Montrose
				10/19/06	140	Saturated Zone	Montrose
				10/19/06	150	Saturated Zone	Montrose
RB-03	26,717,082	825,661	1,808.85	10/27/06	10	Vadose Zone	Montrose
				10/27/06	20	Vadose Zone	Montrose
				10/27/06	30	Vadose Zone	Montrose
				10/27/06	40	Vadose Zone	Montrose
				10/27/06	44	Vadose Zone	Montrose
				10/27/06	50	Vadose Zone	Montrose
				10/27/06	56.5	Saturated Zone	Montrose
				10/27/06	60	Saturated Zone	Montrose
				10/30/06	61	Saturated Zone	Montrose
				10/30/06	70	Saturated Zone	Montrose
				10/30/06	80	Saturated Zone	Montrose
				10/30/06	90	Saturated Zone	Montrose
				10/30/06	100	Saturated Zone	Montrose
				10/30/06	110	Saturated Zone	Montrose
				10/30/06	120	Saturated Zone	Montrose
				10/30/06	130	Saturated Zone	Montrose
				10/30/06	140	Saturated Zone	Montrose
				10/30/06	150	Saturated Zone	Montrose
				10/31/06	160	Saturated Zone	Montrose
				10/31/06	170	Saturated Zone	Montrose

TABLE 3-1
SOIL BORINGS AND SAMPLE DEPTHS

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

BORING IDENTIFIER	NORTHING	EASTING	GROUND SURFACE ELEVATION (feet msl)	SAMPLE DATE	SAMPLE DEPTH (feet bgs)	SAMPLE DESIGNATION	FACILITY
RB-04	26,717,028	825,332	1,809.73	10/18/06	1	Vadose Zone	Montrose
				11/1/06	1	Vadose Zone	Montrose
				10/18/06	9.5	Vadose Zone	Montrose
				11/1/06	10	Vadose Zone	Montrose
				11/1/06	20	Vadose Zone	Montrose
				11/2/06	30	Vadose Zone	Montrose
				11/2/06	40	Vadose Zone	Montrose
				11/2/06	50	Vadose Zone	Montrose
				11/2/06	60	Saturated Zone	Montrose
				11/2/06	70	Saturated Zone	Montrose
				11/2/06	80	Saturated Zone	Montrose
				11/2/06	87.5	Saturated Zone	Montrose
				11/2/06	90	Saturated Zone	Montrose
				11/2/06	100	Saturated Zone	Montrose
				11/2/06	110	Saturated Zone	Montrose
				11/2/06	120	Saturated Zone	Montrose
				11/3/06	130	Saturated Zone	Montrose
				11/3/06	140	Saturated Zone	Montrose
				11/3/06	150	Saturated Zone	Montrose
RB-05	26,716,346	825,743	1,824.68	10/2/06	1	Vadose Zone	Montrose
				10/2/06	10	Vadose Zone	Montrose
				10/2/06	20	Vadose Zone	Montrose
				10/2/06	30	Vadose Zone	Montrose
				10/2/06	40	Vadose Zone	Montrose
				10/2/06	50	Vadose Zone	Montrose
				10/2/06	60	Saturated Zone	Montrose
				10/2/06	70	Saturated Zone	Montrose
				10/3/06	80	Saturated Zone	Montrose
				10/3/06	90	Saturated Zone	Montrose
				10/3/06	100	Saturated Zone	Montrose
				10/3/06	110	Saturated Zone	Montrose
				10/3/06	120	Saturated Zone	Montrose
				10/3/06	130	Saturated Zone	Montrose
				10/3/06	140	Saturated Zone	Montrose
				10/3/06	150	Saturated Zone	Montrose
RB-06	26,716,486	825,461	1,823.00	10/4/06	50	Vadose Zone	Montrose
				10/4/06	60	Saturated Zone	Montrose
				10/4/06	70	Saturated Zone	Montrose
				10/4/06	80	Saturated Zone	Montrose
				10/4/06	90	Saturated Zone	Montrose
				10/4/06	100	Saturated Zone	Montrose
				10/4/06	101	Saturated Zone	Montrose
				10/4/06	110	Saturated Zone	Montrose
				10/5/06	120	Saturated Zone	Montrose
				10/5/06	130	Saturated Zone	Montrose
				10/5/06	140	Saturated Zone	Montrose
				10/5/06	150	Saturated Zone	Montrose
RB-07	26,716,495	825,239	1,822.14	10/9/06	10	Vadose Zone	Montrose
				10/9/06	20	Vadose Zone	Montrose
				10/9/06	30	Vadose Zone	Montrose
				10/9/06	40	Vadose Zone	Montrose
				10/9/06	50	Vadose Zone	Montrose
				10/9/06	60	Saturated Zone	Montrose
				10/9/06	70	Saturated Zone	Montrose
				10/9/06	80	Saturated Zone	Montrose
				10/10/06	90	Saturated Zone	Montrose
				10/10/06	100	Saturated Zone	Montrose
				10/10/06	110	Saturated Zone	Montrose
				10/10/06	120	Saturated Zone	Montrose
				10/10/06	130	Saturated Zone	Montrose
				10/10/06	140	Saturated Zone	Montrose
				10/10/06	150	Saturated Zone	Montrose

TABLE 3-1
SOIL BORINGS AND SAMPLE DEPTHS

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

BORING IDENTIFIER	NORTHING	EASTING	GROUND SURFACE ELEVATION (feet msl)	SAMPLE DATE	SAMPLE DEPTH (feet bgs)	SAMPLE DESIGNATION	FACILITY
RB-08	26,716,271	824,891	1,825.34	10/11/06	1	Vadose Zone	Montrose
				10/11/06	10	Vadose Zone	Montrose
				10/11/06	20	Vadose Zone	Montrose
				10/11/06	30	Vadose Zone	Montrose
				10/11/06	40	Vadose Zone	Montrose
				10/11/06	50	Vadose Zone	Montrose
				10/11/06	60	Saturated Zone	Montrose
				10/11/06	70	Saturated Zone	Montrose
				10/11/06	80	Saturated Zone	Montrose
				10/11/06	90	Saturated Zone	Montrose
				10/11/06	100	Saturated Zone	Montrose
				10/11/06	110	Saturated Zone	Montrose
				10/11/06	120	Saturated Zone	Montrose
				10/12/06	130	Saturated Zone	Montrose
				10/12/06	140	Saturated Zone	Montrose
				10/12/06	150	Saturated Zone	Montrose
RB-09	26,717,331	826,552	--	4/11/07	10	Vadose Zone	Montrose
				4/11/07	20	Vadose Zone	Montrose
				4/11/07	30	Vadose Zone	Montrose
				4/11/07	40	Vadose Zone	Montrose
				4/11/07	50	Vadose Zone	Montrose
				4/11/07	60	Saturated Zone	Montrose
				4/11/07	70	Saturated Zone	Montrose
				4/11/07	80	Saturated Zone	Montrose
				4/11/07	90	Saturated Zone	Montrose
				4/11/07	100	Saturated Zone	Montrose
				4/12/07	120	Saturated Zone	Montrose
				4/12/07	130	Saturated Zone	Montrose
				4/12/07	140	Saturated Zone	Montrose
				4/12/07	150	Saturated Zone	Montrose
RB-12	26,718,264	825,615	--	4/2/07	10	Vadose Zone	Montrose
				4/2/07	20	Vadose Zone	Montrose
				4/2/07	30	Vadose Zone	Montrose
				4/3/07	40	Vadose Zone	Montrose
				4/3/07	50	Vadose Zone	Montrose
				4/3/07	60	Saturated Zone	Montrose
				4/3/07	70	Saturated Zone	Montrose
				4/3/07	80	Saturated Zone	Montrose
				4/3/07	90	Saturated Zone	Montrose
				4/3/07	100	Saturated Zone	Montrose
				4/3/07	110	Saturated Zone	Montrose
				4/3/07	120	Saturated Zone	Montrose
				4/3/07	130	Saturated Zone	Montrose
RB-14	26,718,535	826,160	--	4/5/07	10	Vadose Zone	Montrose
				4/5/07	20	Vadose Zone	Montrose
				4/5/07	30	Vadose Zone	Montrose
				4/5/07	40	Vadose Zone	Montrose
				4/5/07	50	Vadose Zone	Montrose
				4/9/07	60	Saturated Zone	Montrose
				4/9/07	70	Saturated Zone	Montrose
				4/9/07	80	Saturated Zone	Montrose
				4/9/07	90	Saturated Zone	Montrose
				4/9/07	100	Saturated Zone	Montrose
				4/9/07	110	Saturated Zone	Montrose
				4/9/07	120	Saturated Zone	Montrose
				4/9/07	130	Saturated Zone	Montrose
				4/10/07	140	Saturated Zone	Montrose
				4/10/07	150	Saturated Zone	Montrose
RCL-01	26,717,784	824,623	--	12/20/96	6	Vadose Zone	Montrose
RCL-02	26,717,806	824,556	--	12/19/96	6	Vadose Zone	Montrose
TLS-01	26,716,720	825,585	--	12/18/96	2	Vadose Zone	Montrose
				12/18/96	10	Vadose Zone	Montrose

TABLE 3-1
SOIL BORINGS AND SAMPLE DEPTHS

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

BORING IDENTIFIER	NORTHING	EASTING	GROUND SURFACE ELEVATION (feet msl)	SAMPLE DATE	SAMPLE DEPTH (feet bgs)	SAMPLE DESIGNATION	FACILITY
ACD1	26,717,343	824,907	--	3/10/97	1	Surface	Stauffer
				3/12/97	1	Surface	Stauffer
ACD2	26,717,326	824,838	--	3/10/97	1	Vadose Zone	Stauffer
				3/12/97	1	Vadose Zone	Stauffer
				3/19/97	4	Vadose Zone	Stauffer
ACD3	26,717,313	824,762	--	3/10/97	1	Vadose Zone	Stauffer
				3/12/97	1	Vadose Zone	Stauffer
				3/19/97	4	Vadose Zone	Stauffer
ACD4	26,717,303	824,693	--	3/7/97	1	Surface	Stauffer
				3/12/97	1	Surface	Stauffer
ACD5	26,717,414	824,897	--	3/12/97	1	Surface	Stauffer
ACD6	26,717,404	824,828	--	3/12/97	1	Vadose Zone	Stauffer
				8/27/97	4	Vadose Zone	Stauffer
				8/27/97	11	Vadose Zone	Stauffer
ACD7	26,717,387	824,757	--	3/12/97	1	Surface	Stauffer
ACD8	26,717,374	824,681	--	3/10/97	1	Surface	Stauffer
				3/12/97	1	Surface	Stauffer
ACD9	26,717,374	824,606	--	3/12/97	1	Vadose Zone	Stauffer
				3/19/97	4	Vadose Zone	Stauffer
				8/27/97	11	Vadose Zone	Stauffer
ACD10	26,717,484	824,887	--	3/13/97	1	Surface	Stauffer
ACD11	26,717,466	824,820	--	3/12/97	1	Surface	Stauffer
ACD12	26,717,455	824,749	--	3/12/97	1	Surface	Stauffer
ACD13	26,717,445	824,673	--	3/12/97	1	Surface	Stauffer
ACD14	26,717,435	824,596	--	3/12/97	1	Surface	Stauffer
ACD15	26,717,558	824,875	--	3/13/97	1	Surface	Stauffer
ACD16	26,717,547	824,806	--	3/13/97	1	Vadose Zone	Stauffer
				3/19/97	4	Vadose Zone	Stauffer
ACD17	26,717,540	824,735	--	3/13/97	1	Vadose Zone	Stauffer
				3/19/97	4	Vadose Zone	Stauffer
ACD18	26,717,524	824,657	--	3/13/97	1	Surface	Stauffer
ACD19	26,717,514	824,575	--	3/13/97	1	Surface	Stauffer
B2	26,717,005	825,114	--	3/18/97	11	Vadose Zone	Stauffer
				3/18/97	14	Vadose Zone	Stauffer
B3	26,717,051	825,377	--	3/18/97	11	Vadose Zone	Stauffer
				3/18/97	14	Vadose Zone	Stauffer
B4	26,717,081	825,579	--	3/20/97	16	Vadose Zone	Stauffer
				3/20/97	16	Vadose Zone	Stauffer
				3/20/97	18.5	Vadose Zone	Stauffer
B5	26,717,127	825,852	--	3/18/97	11	Vadose Zone	Stauffer
				3/18/97	14	Vadose Zone	Stauffer
BCP11	26,717,092	824,916	--	3/4/97	1	Surface	Stauffer
BCP12	26,717,084	824,827	--	3/4/97	1	Vadose Zone	Stauffer
				3/19/97	4	Vadose Zone	Stauffer
				8/27/97	11	Vadose Zone	Stauffer
BCP13	26,717,076	824,750	--	3/5/97	1	Surface	Stauffer
BCP21	26,717,186	824,629	--	3/5/97	1	Vadose Zone	Stauffer
				3/19/97	4	Vadose Zone	Stauffer
				8/27/97	11	Vadose Zone	Stauffer
BHCLR1	26,717,131	824,956	--	3/7/97	1	Surface	Stauffer
BHCLR2	26,717,155	824,861	--	3/7/97	1	Vadose Zone	Stauffer
				3/19/97	4	Vadose Zone	Stauffer
BHCLR3	26,717,228	824,760	--	3/6/97	1	Surface	Stauffer
BHCLR4	26,717,286	824,485	--	3/7/97	1	Surface	Stauffer
BHCLR5	26,717,404	824,278	--	3/13/97	1	Surface	Stauffer
BHCLR6	26,717,251	824,157	--	3/14/97	1	Surface	Stauffer
				3/14/97	1	Surface	Stauffer
BHCLR7	26,717,047	823,978	--	3/14/97	1	Surface	Stauffer
BHCLR8	26,717,050	823,762	--	3/14/97	1	Surface	Stauffer
BHCLR9	26,717,135	823,687	--	3/14/97	1	Surface	Stauffer
BHCLR10	26,717,148	824,080	--	8/28/97	1	Surface	Stauffer
BHCLR11	26,717,011	823,886	--	8/28/97	1	Surface	Stauffer

TABLE 3-1
SOIL BORINGS AND SAMPLE DEPTHS

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

BORING IDENTIFIER	NORTHING	EASTING	GROUND SURFACE ELEVATION (feet msl)	SAMPLE DATE	SAMPLE DEPTH (feet bgs)	SAMPLE DESIGNATION	FACILITY
EC-06	26,717,669	824,699	1,803.23	8/1/06	0.5	Vadose Zone	Stauffer
				8/1/06	7.5	Vadose Zone	Stauffer
				8/1/06	26	Vadose Zone	Stauffer
				8/1/06	47.5	Vadose Zone	Stauffer
EC-07	26,717,809	824,699	1,795.78	8/3/06	0.5	Vadose Zone	Stauffer
				8/3/06	7.5	Vadose Zone	Stauffer
				8/3/06	26	Vadose Zone	Stauffer
				8/3/06	46	Vadose Zone	Stauffer
EC-08	26,717,456	824,077	1,802.81	8/9/06	0.5	Vadose Zone	Stauffer
				8/9/06	7.5	Vadose Zone	Stauffer
				8/9/06	25.5	Vadose Zone	Stauffer
				8/9/06	40	Vadose Zone	Stauffer
EC-09	26,717,965	824,258	1,791.84	8/10/06	0.5	Vadose Zone	Stauffer
				8/10/06	8	Vadose Zone	Stauffer
				8/10/06	25.5	Vadose Zone	Stauffer
				8/10/06	41.5	Vadose Zone	Stauffer
EC-10	26,717,753	823,570	1,789.93	8/8/06	0.5	Vadose Zone	Stauffer
				8/8/06	7.5	Vadose Zone	Stauffer
				8/8/06	26	Vadose Zone	Stauffer
				8/8/06	40.5	Vadose Zone	Stauffer
FLP1	26,716,983	824,885	--	3/6/97	1	Surface	Stauffer
FLP2	26,716,896	824,893	--	3/6/97	1	Surface	Stauffer
				8/28/97	1	Surface	Stauffer
FLP3	26,716,973	824,785	--	3/5/97	1	Surface	Stauffer
FLP4	26,716,885	824,688	--	3/3/97	1	Vadose Zone	Stauffer
				3/19/97	4	Vadose Zone	Stauffer
FLP5	26,716,883	824,788	--	3/3/97	1	Surface	Stauffer
FLP6	26,716,960	824,670	--	3/5/97	1	Vadose Zone	Stauffer
				3/19/97	4	Vadose Zone	Stauffer
				8/27/97	12	Vadose Zone	Stauffer
SB-EC01	26,716,971	824,977	1,809.18	7/26/06	1	Vadose Zone	Stauffer
				7/26/06	10	Vadose Zone	Stauffer
				7/27/06	24.5	Vadose Zone	Stauffer
				7/27/06	39.5	Vadose Zone	Stauffer
SB-EC02	26,716,934	824,798	1,809.90	7/27/06	1	Vadose Zone	Stauffer
				7/27/06	7.5	Vadose Zone	Stauffer
				7/27/06	25.5	Vadose Zone	Stauffer
				7/28/06	39.5	Vadose Zone	Stauffer
SB-EC03	26,716,612	824,963	1,813.28	7/28/06	1	Vadose Zone	Stauffer
				7/28/06	7.5	Vadose Zone	Stauffer
				7/28/06	25.5	Vadose Zone	Stauffer
				7/31/06	34.5	Vadose Zone	Stauffer
SB-EC04	26,717,091	824,844	1,813.28	7/31/06	1.3	Vadose Zone	Stauffer
				7/31/06	7.5	Vadose Zone	Stauffer
				7/31/06	25.5	Vadose Zone	Stauffer
				7/31/06	36	Vadose Zone	Stauffer
SB-EC05	26,717,567	824,781	1,804.05	8/1/06	2	Vadose Zone	Stauffer
				8/1/06	7.5	Vadose Zone	Stauffer
				8/1/06	25.5	Vadose Zone	Stauffer
				8/1/06	49.5	Vadose Zone	Stauffer
SB-EC11	26,717,384	824,761	1,804.58	8/2/06	1.3	Vadose Zone	Stauffer
				8/2/06	7.5	Vadose Zone	Stauffer
				8/2/06	26	Vadose Zone	Stauffer
				8/2/06	41.5	Vadose Zone	Stauffer
SB-EC12	26,717,384	824,627	1,804.23	8/2/06	5	Vadose Zone	Stauffer
				8/2/06	7.5	Vadose Zone	Stauffer
				8/2/06	25.5	Vadose Zone	Stauffer
				8/2/06	41.5	Vadose Zone	Stauffer
SB-EC13	26,717,504	824,555	1,804.25	8/3/06	1.3	Vadose Zone	Stauffer
				8/3/06	7.5	Vadose Zone	Stauffer
				8/3/06	27.5	Vadose Zone	Stauffer
				8/3/06	40.5	Vadose Zone	Stauffer

TABLE 3-1
SOIL BORINGS AND SAMPLE DEPTHS

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

BORING IDENTIFIER	NORTHING	EASTING	GROUND SURFACE ELEVATION (feet msl)	SAMPLE DATE	SAMPLE DEPTH (feet bgs)	SAMPLE DESIGNATION	FACILITY
SB-EC14	26,717,162	824,636	1,807.33	8/7/06	1.5	Vadose Zone	Stauffer
				8/7/06	7.5	Vadose Zone	Stauffer
				8/7/06	24	Vadose Zone	Stauffer
				8/8/06	40.5	Vadose Zone	Stauffer
SS-EC-001	26,718,568	823,354	--	8/10/06	0.25	Surface	Stauffer
SS-EC-002	26,718,394	823,470	--	8/10/06	0.25	Surface	Stauffer
SS-EC-003	26,718,194	823,537	--	8/10/06	0.25	Surface	Stauffer
SS-EC-004	26,717,984	823,587	--	8/10/06	0.25	Surface	Stauffer
SS-EC-005	26,717,862	823,673	--	8/10/06	0.25	Surface	Stauffer
SS-EC-006	26,717,683	823,402	--	1/22/07	0.25	Surface	Stauffer
SS-EC-007	26,717,957	823,420	--	1/22/07	0.25	Surface	Stauffer
SS-EC-008	26,718,209	823,379	--	1/22/07	0.25	Surface	Stauffer
SS-EC-009	26,718,488	823,339	--	1/22/07	0.25	Surface	Stauffer
SS-EC-010	26,718,040	823,320	--	1/22/07	0.25	Surface	Stauffer
SS-EC-011	26,718,254	823,244	--	1/22/07	0.25	Surface	Stauffer
SS-EC-012	26,718,496	823,212	--	1/22/07	0.25	Surface	Stauffer
SS-EC-013	26,718,014	824,300	--	1/22/07	0.25	Surface	Stauffer
SS-EC-014	26,718,067	824,127	--	1/22/07	0.25	Surface	Stauffer
SS-EC-015	26,718,096	823,873	--	1/22/07	0.25	Surface	Stauffer
SS-EC-016	26,717,653	824,053	--	1/22/07	0.25	Surface	Stauffer
SS-EC-017	26,717,793	823,890	--	1/22/07	0.25	Surface	Stauffer
SS-EC-018	26,718,002	823,773	--	1/22/07	0.25	Surface	Stauffer
SS-EC-019	26,718,146	823,630	--	1/22/07	0.25	Surface	Stauffer
SS-EC-020	26,716,472	826,091	--	1/22/07	0.25	Surface	Stauffer
SS-EC-021	26,716,428	825,796	--	1/22/07	0.25	Surface	Stauffer
SS-EC-022	26,716,469	825,378	--	1/22/07	0.25	Surface	Stauffer
SS-EC-023	26,716,294	825,003	--	1/22/07	0.25	Surface	Stauffer
SS-EC-024	26,715,943	826,179	--	1/22/07	0.25	Surface	Stauffer
SS-EC-025	26,716,816	826,162	--	1/23/07	0.25	Surface	Stauffer
SS-EC-026	26,717,192	825,959	--	1/23/07	0.25	Surface	Stauffer
SS-EC-027	26,718,106	825,523	--	1/23/07	0.25	Surface	Stauffer
SS-EC-028	26,717,894	825,963	--	1/23/07	0.25	Surface	Stauffer
SS-EC-029	26,718,414	825,467	--	1/23/07	0.25	Surface	Stauffer
SS-EC-030	26,718,495	825,865	--	1/23/07	0.25	Surface	Stauffer
SS-EC-031	26,718,723	825,418	--	1/23/07	0.25	Surface	Stauffer
SS-EC-032	26,718,855	825,803	--	1/23/07	0.25	Surface	Stauffer
SS-EC-033	26,719,406	825,713	--	1/23/07	0.25	Surface	Stauffer
SS-EC-034	26,719,446	825,304	--	1/23/07	0.25	Surface	Stauffer
SS-EC-035	26,719,129	824,933	--	1/23/07	0.25	Surface	Stauffer
SS-EC-036	26,718,743	824,990	--	1/23/07	0.25	Surface	Stauffer
SS-EC-037	26,718,523	825,046	--	1/23/07	0.25	Surface	Stauffer
SS-EC-038	26,718,304	825,079	--	1/23/07	0.25	Surface	Stauffer
SS-EC-039	26,718,131	825,112	--	1/23/07	0.25	Surface	Stauffer
SS-EC-040	26,717,923	825,143	--	1/23/07	0.25	Surface	Stauffer
SS-EC-041	26,716,453	823,457	--	1/23/07	0.25	Surface	Stauffer
SS-EC-042	26,716,479	823,661	--	1/23/07	0.25	Surface	Stauffer
SS-EC-043	26,716,505	823,857	--	1/23/07	0.25	Surface	Stauffer
SS-EC-044	26,716,536	824,052	--	1/23/07	0.25	Surface	Stauffer
SS-EC-045	26,716,575	824,247	--	1/23/07	0.25	Surface	Stauffer
SS-EC-046	26,716,606	824,446	--	1/23/07	0.25	Surface	Stauffer
SS-EC-047	26,716,630	824,644	--	1/23/07	0.25	Surface	Stauffer
SS-EC-048	26,716,669	824,845	--	1/23/07	0.25	Surface	Stauffer
SS-EC-049	26,716,700	825,040	--	1/23/07	0.25	Surface	Stauffer
SS-EC-050	26,716,936	824,979	--	1/23/07	0.25	Surface	Stauffer
SS-EC-051	26,716,842	824,816	--	1/23/07	0.25	Surface	Stauffer
SS-EC-052	26,716,831	824,608	--	1/23/07	0.25	Surface	Stauffer
SS-EC-053	26,716,809	824,413	--	1/23/07	0.25	Surface	Stauffer
SS-EC-054	26,716,788	824,213	--	1/23/07	0.25	Surface	Stauffer
SS-EC-055	26,716,744	824,021	--	1/23/07	0.25	Surface	Stauffer
SS-EC-056	26,716,701	823,823	--	1/23/07	0.25	Surface	Stauffer
SS-EC-057	26,716,683	823,623	--	1/23/07	0.25	Surface	Stauffer
SS-EC-058	26,716,653	823,425	--	1/23/07	0.25	Surface	Stauffer
SS-EC-059	26,716,842	823,396	--	1/23/07	0.25	Surface	Stauffer

TABLE 3-1
SOIL BORINGS AND SAMPLE DEPTHS

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

BORING IDENTIFIER	NORTHING	EASTING	GROUND SURFACE ELEVATION (feet msl)	SAMPLE DATE	SAMPLE DEPTH (feet bgs)	SAMPLE DESIGNATION	FACILITY
SS-EC-060	26,716,878	823,590	--	1/23/07	0.25	Surface	Stauffer
SS-EC-061	26,716,908	823,791	--	1/23/07	0.25	Surface	Stauffer
SS-EC-062	26,716,930	823,989	--	1/23/07	0.25	Surface	Stauffer
SS-EC-063	26,716,965	824,183	--	1/23/07	0.25	Surface	Stauffer
SS-EC-064	26,716,963	824,364	--	1/23/07	0.25	Surface	Stauffer
SS-EC-065	26,716,962	824,594	--	1/23/07	0.25	Surface	Stauffer
SS-EC-066	26,717,097	824,979	--	1/23/07	0.25	Surface	Stauffer
SS-EC-067	26,717,290	824,975	--	1/23/07	0.25	Surface	Stauffer
SS-EC-068	26,717,479	824,883	--	1/23/07	0.25	Surface	Stauffer
SS-EC-069	26,717,438	824,553	--	1/23/07	0.25	Surface	Stauffer
SS-EC-070	26,717,371	824,320	--	1/23/07	0.25	Surface	Stauffer
SS-EC-071	26,717,626	824,484	--	1/24/07	0.25	Surface	Stauffer
SS-EC-072	26,717,658	824,684	--	1/23/07	0.25	Surface	Stauffer
SS-EC-073	26,717,683	824,878	--	1/24/07	0.25	Surface	Stauffer
SS-EC-074	26,717,881	824,847	--	1/24/07	0.25	Surface	Stauffer
SS-EC-075	26,718,069	824,817	--	1/24/07	0.25	Surface	Stauffer
SS-EC-076	26,718,052	824,616	--	1/24/07	0.25	Surface	Stauffer
SS-EC-077	26,717,874	824,645	--	1/24/07	0.25	Surface	Stauffer
SS-EC-078	26,717,820	824,451	--	1/24/07	0.25	Surface	Stauffer
SS-EC-079	26,718,025	824,418	--	1/24/07	0.25	Surface	Stauffer
SS-EC-080	26,718,214	824,389	--	1/24/07	0.25	Surface	Stauffer
SS-EC-081	26,718,418	824,343	--	1/24/07	0.25	Surface	Stauffer
SS-EC-082	26,718,616	824,304	--	1/24/07	0.25	Surface	Stauffer
SS-EC-083	26,718,745	824,511	--	1/24/07	0.25	Surface	Stauffer
SS-EC-084	26,718,777	824,704	--	1/24/07	0.25	Surface	Stauffer
SS-EC-085	26,718,681	824,111	--	1/24/07	0.25	Surface	Stauffer
SS-EC-086	26,718,186	824,190	--	1/24/07	0.25	Surface	Stauffer
SS-EC-087	26,718,158	823,990	--	1/24/07	0.25	Surface	Stauffer
SS-EC-088	26,718,351	823,960	--	1/24/07	0.25	Surface	Stauffer
SS-EC-089	26,718,553	823,931	--	1/24/07	0.25	Surface	Stauffer
SS-EC-090	26,718,617	823,716	--	1/24/07	0.25	Surface	Stauffer
SS-EC-091	26,718,485	823,534	--	1/24/07	0.25	Surface	Stauffer
SS-EC-092	26,718,292	823,567	--	1/24/07	0.25	Surface	Stauffer
SS-EC-093	26,718,096	823,598	--	1/24/07	0.25	Surface	Stauffer
SS-EC-094	26,718,115	823,801	--	1/24/07	0.25	Surface	Stauffer
SS-EC-095	26,717,955	824,021	--	1/24/07	0.25	Surface	Stauffer
SS-EC-096	26,717,927	823,825	--	1/24/07	0.25	Surface	Stauffer
SS-EC-097	26,717,846	823,944	--	1/24/07	0.25	Surface	Stauffer
SS-EC-098	26,717,755	824,057	--	1/24/07	0.25	Surface	Stauffer
SS-EC-099	26,717,732	823,857	--	1/24/07	0.25	Surface	Stauffer
SS-EC-100	26,717,646	823,975	--	1/24/07	0.25	Surface	Stauffer
SS-EC-101	26,717,573	824,089	--	1/24/07	0.25	Surface	Stauffer
SS-EC-102	26,717,444	824,009	--	1/24/07	0.25	Surface	Stauffer
SS-EC-103	26,717,346	823,922	--	1/24/07	0.25	Surface	Stauffer
SS-EC-104	26,717,160	824,153	--	1/23/07	0.25	Surface	Stauffer
SS-EC-105	26,717,099	823,759	--	1/24/07	0.25	Surface	Stauffer
SS-EC-106	26,716,958	823,480	--	1/24/07	0.25	Surface	Stauffer
SS-EC-107	26,717,043	823,357	--	1/24/07	0.25	Surface	Stauffer
SS-EC-108	26,717,244	823,332	--	1/24/07	0.25	Surface	Stauffer
SS-EC-109	26,717,431	823,293	--	1/24/07	0.25	Surface	Stauffer
SS-EC-110	26,717,639	823,265	--	1/24/07	0.25	Surface	Stauffer
SS-EC-111	26,717,833	823,235	--	1/24/07	0.25	Surface	Stauffer
SS-EC-112	26,718,029	823,203	--	1/24/07	0.25	Surface	Stauffer
SS-EC-113	26,718,229	823,170	--	1/24/07	0.25	Surface	Stauffer
SS-EC-114	26,718,430	823,138	--	1/24/07	0.25	Surface	Stauffer
SS-EC-115	26,718,453	823,337	--	1/24/07	0.25	Surface	Stauffer
SS-EC-116	26,718,253	823,393	--	1/24/07	0.25	Surface	Stauffer
SS-EC-117	26,718,055	823,413	--	1/24/07	0.25	Surface	Stauffer
SS-EC-118	26,717,862	823,429	--	1/24/07	0.25	Surface	Stauffer
SS-EC-119	26,717,744	823,350	--	1/24/07	0.25	Surface	Stauffer
SS-EC-120	26,717,879	823,631	--	1/24/07	0.25	Surface	Stauffer
SS-EC-121	26,717,159	823,649	--	1/24/07	0.25	Surface	Stauffer
SS-EC-122	26,717,171	823,547	--	1/24/07	0.25	Surface	Stauffer

TABLE 3-1
SOIL BORINGS AND SAMPLE DEPTHS

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

BORING IDENTIFIER	NORTHING	EASTING	GROUND SURFACE ELEVATION (feet msl)	SAMPLE DATE	SAMPLE DEPTH (feet bgs)	SAMPLE DESIGNATION	FACILITY
SS-EC-123	26,717,248	823,486	--	1/24/07	0.25	Surface	Stauffer
SS-EC-124	26,717,362	823,469	--	1/24/07	0.25	Surface	Stauffer
SS-EC-125	26,717,459	823,458	--	1/24/07	0.25	Surface	Stauffer
SS-EC-126	26,717,565	823,455	--	1/24/07	0.25	Surface	Stauffer
SS-EC-127	26,717,659	823,466	--	1/24/07	0.25	Surface	Stauffer
SS-EC-128	26,717,727	823,519	--	1/24/07	0.25	Surface	Stauffer
SS-EC-129	26,717,761	823,652	--	1/24/07	0.25	Surface	Stauffer
SS-EC-130	26,717,731	823,781	--	1/24/07	0.25	Surface	Stauffer
SS-EC-131	26,717,616	823,833	--	1/24/07	0.25	Surface	Stauffer
SS-EC-132	26,717,516	823,863	--	1/24/07	0.25	Surface	Stauffer
SS-EC-133	26,717,424	823,874	--	1/24/07	0.25	Surface	Stauffer
SS-EC-134	26,717,313	823,868	--	1/24/07	0.25	Surface	Stauffer
SS-EC-135	26,717,243	823,837	--	1/24/07	0.25	Surface	Stauffer
SS-EC-136	26,717,181	823,746	--	1/24/07	0.25	Surface	Stauffer
SS-EC-137	26,717,288	824,439	--	1/24/07	0.25	Surface	Stauffer
SS-EC-138	26,717,307	824,342	--	1/24/07	0.25	Surface	Stauffer
SS-EC-139	26,717,436	824,314	--	1/24/07	0.25	Surface	Stauffer
SS-EC-140	26,717,324	824,161	--	1/24/07	0.25	Surface	Stauffer
SS-EC-141	26,717,183	824,072	--	1/24/07	0.25	Surface	Stauffer
SS-EC-142	26,717,025	823,967	--	1/24/07	0.25	Surface	Stauffer
SS-EC-143	26,717,014	823,801	--	1/24/07	0.25	Surface	Stauffer
SS-EC-144	26,717,085	823,688	--	1/24/07	0.25	Surface	Stauffer
SS-EC-145	26,716,876	823,817	--	1/24/07	0.25	Surface	Stauffer
SS-EC-146	26,716,869	823,964	--	1/24/07	0.25	Surface	Stauffer
SS-EC-147	26,716,912	824,140	--	1/24/07	0.25	Surface	Stauffer
SS-EC-148	26,717,029	824,299	--	1/24/07	0.25	Surface	Stauffer
SS-EC-149	26,717,984	823,514	--	1/24/07	0.25	Surface	Stauffer
SS-EC-150	26,718,005	823,714	--	1/24/07	0.25	Surface	Stauffer

Notes:
feet bgs = Feet below ground surface
feet msl = Feet above mean sea level
-- = Not measured

Table 3-2

MONITOR WELLS

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

WELL IDENTIFIER	NORTHING	EASTING	GROUND SURFACE ELEVATION (feet msl)	SCREEN INTERVAL (feet bgs)	Well Use	
					WATER QUALITY MONITORING[1]	WATER LEVEL MONITORING[2]
ALLUVIAL AQUIFER						
AA-BW-01A	26,719,796	826,112	1,754.87	33-53	✓	
AA-BW-02A	26,720,212	826,045	1,746.78	33-53	✓	
AA-BW-03A	26,720,586	825,971	1,739.48	33-53	✓	
AA-BW-04A	26,721,142	825,492	1,729.47	32-52	✓	
AA-BW-05A	26,721,178	825,065	1,729.21	34-64	✓	
AA-BW-06A	26,721,238	824,476	1,729.28	23-43	✓	
AA-BW-07A	26,720,638	823,980	1,739.89	32-52	✓	
AA-BW-08A	26,719,490	825,330	1,761.28	77-87	✓	
AA-BW-08B	26,719,489	825,263	1,761.47	37.5-57.5	✓	
AA-BW-09A	26,719,451	825,696	1,761.59	33-53	✓	
AA-BW-12	26,718,772	824,440	1,776.54	49-69	✓	
AA-BW-13	26,721,312	822,711	1,731.67	18-38	✓	
A	26,722,333	824,340	1,712.54	22-32	✓	
B	26,722,236	824,485	1,715.04	33-48	✓	
C	26,722,157	824,605	1,714.94	28-38	✓	
D	26,721,791	825,138	1,718.33	30-40	✓	
D2	26,721,803	825,124	1,717.92	33-38	✓	
E3	26,721,715	825,250	1,719.18	30-40	✓	
F	26,721,607	825,408	1,720.87	27-47	✓	
G	26,721,527	825,525	1,721.98	30-50	✓	
H2	26,721,467	825,615	1,722.76	40-50	✓	
I	26,721,329	825,814	1,724.59	32-42	✓	
J	26,721,984	824,859	1,715.80	32-37	✓	
K2	26,721,398	825,712	1,723.82	26-45	✓	
L	26,721,664	825,324	1,719.82	40-45	✓	
M	26,721,365	825,760	1,723.69	43-47	✓	
Old Well E	26,721,710	825,258	1,721.02	27-42		✓
Old Well H	26,721,457	825,627	1,724.11	32-47		✓
TR-06	26,717,608	826,594	1,800.36	60-80	✓	✓
AA-MW-05	26,715,531	824,351	1,843.11	30.5-60.5	✓	✓
AA-MW-06	26,716,226	824,378	1,826.76	36.5-66.5	✓	✓
AA-MW-07	26,719,344	826,127	1,761.91	30.5-70.5	✓	✓
AA-MW-13	26,717,020	825,333	1,809.83	31.5-61.5	✓	✓
MW-01	26,715,187	825,536	1,851.26	84-104	✓	✓
MW-02	26,716,364	825,640	1,825.30	48-68	✓	✓
MW-03	26,716,390	825,354	1,826.01	42-62	✓	✓
MW-04	26,716,415	825,074	1,826.38	46-66	✓	✓
ARP-06A	26,728,479	829,515	1,614.39	14-39	✓	
PW-01	26,716,403	825,302	1,825.51	50-70		✓
HMW-13	26,731,740	827,712	1,592.58	10-25		✓
B-01	26,717,341	825,677	1,807.89	44.5-55.5	✓	✓
B-02	26,717,512	825,767	1,803.79	39.5-54.5		✓
B-03	26,717,499	825,642	1,803.69	44.5-54.5	✓	✓
B-04	26,717,858	826,002	1,801.76	49.5-59.5	✓	✓
B-06	26,718,093	825,892	1,793.97	44.5-54.5	✓	✓
B-07	26,717,846	825,459	1,801.77	44.5-54.5	✓	✓
B-08	26,718,442	825,608	1,786.56	44.5-54.5	✓	✓
B-09	26,718,417	825,446	1,786.57	44.5-54.5		✓
B-10	26,718,724	825,539	1,773.11	33.5-43.5	✓	✓
B-11	26,718,700	825,395	1,773.40	33.5-43.5		✓
B-12	26,718,989	825,444	1,773.18	48.5-58.5	✓	✓
B-13	26,719,002	825,250	1,773.06	44-59	✓	✓
B-14R	26,719,431	825,396	1,772.55	63.5-73.5	✓	✓
B-16	26,718,138	823,963	1,787.96	47.5-52.5	✓	✓
B-17	26,718,747	824,004	1,774.70	49-59	✓	✓
B-18	26,718,694	823,747	1,774.91	44.5-54.5	✓	✓
B-19	26,718,941	823,821	1,770.65	--	✓	✓
B-20	26,718,774	824,601	1,775.90	--		✓
MW-08	--	--	1,766.52	56-71	✓	
MW-A-J	26,726,031	826,455	1,649.67	10.6-30.6	✓	✓
MW-APX-5-7	26,729,285	827,009	--	--	✓	
MW-K1	26,726,811	827,778	1,634.31	8.5-23.5	✓	✓
MW-K5	26,730,252	829,618	--	28.5-43.5	✓	✓
MW-R	26,725,018	825,424	1,667.95	16-38	✓	✓
MW-S	26,730,853	826,941	1,605.91	15-45	✓	✓

Table 3-2

MONITOR WELLS

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

WELL IDENTIFIER	NORTHING	EASTING	GROUND SURFACE ELEVATION (feet msl)	SCREEN INTERVAL (feet bgs)	Well Use	
					WATER QUALITY MONITORING[1]	WATER LEVEL MONITORING[2]
MW-U	26,733,220	826,312	1,591.04	13-43	✓	✓
TMW-1	26,722,443	824,490	--	23-43		✓
TMW-2	26,722,428	824,474	--	34-44		✓
TMW-3	26,721,507	825,731	--	35-44		✓
TMW-4	26,721,493	825,718	--	34-44		✓
TWE-15	26,727,677	826,426	1,633.67	15-18	✓	✓
PC-02	26,730,210	830,443	1,594.16	16.7-31.7	✓	✓
PC-04	26,730,360	831,256	1,600.42	17.7-42.7	✓	
PC-12	26,728,103	829,430	1,616.46	14.8-29.8		✓
PC-017	26,728,089	828,733	--	--		✓
PC-018	26,728,080	828,636	--	--		✓
PC-028	26,725,376	828,530	1,651.18	10-19.5	✓	✓
PC-031	26,725,196	826,781	1,658.21	15-49.5	✓	✓
PC-037	26,722,172	826,612	--	--		✓
PC-40	26,723,971	826,477	1,679.23	15-55.2	✓	
PC-053	26,730,225	829,942	--	--		✓
PC-054	26,722,068	828,296	--	--		✓
PC-055	26,728,056	828,530	1,617.44	14-54	✓	✓
PC-056	26,732,289	830,679	--	4.8-54.8	✓	✓
PC-058	26,732,116	831,188	--	--		✓
PC-059	26,732,453	830,150	--	--		✓
PC-060	26,732,359	830,405	--	--		✓
PC-062	26,732,734	829,764	--	--		✓
PC-064	26,723,703	827,916	1,675.58	4-19	✓	✓
PC-067	26,723,847	829,207	1,674.40	11-38.6	✓	✓
PC-068	26,732,907	829,617	--	--		✓
PC-071	26,722,692	826,857	--	--		✓
PC-072	26,722,689	826,631	--	--		✓
PC-073	26,722,689	826,436	--	--		✓
PC-077	26,733,568	829,031	1,566.74	29.5-39.5	✓	✓
PC-086	26,733,186	830,827	1,554.39	17.5-27.5	✓	✓
PC-090	26,733,193	831,272	--	--		✓
PC-091	26,733,111	831,730	--	--		✓
PC-095	26,733,450	831,227	--	--		✓
PC-097	26,733,442	831,566	--	23-33		✓
PC-098	26,730,256	829,520	--	--		✓
PC-099	26,733,140	831,242	--	--		✓
PC-101	26,728,111	828,715	--	--		✓
PC-103	26,730,206	829,111	--	--		✓
PC-115	26,733,131	831,149	--	--		✓
PC-116	26,733,203	831,348	--	--		✓
PC-123	26,727,358	829,485	--	--		✓
PC-124	26,726,742	830,133	--	20.3-35.5		✓
PC-125	26,726,740	829,926	--	--		✓
PC-126	26,726,738	829,725	--	--		✓
PC-127	26,726,736	829,317	--	--		✓
PC-128	26,726,732	828,954	--	--		✓
PC-129	26,726,731	828,747	--	--		✓
PC-130	26,726,729	828,538	--	--		✓
PC-131	26,726,725	828,123	--	--		✓
PC-132	26,726,723	827,914	--	--		✓
PC-133	26,733,209	831,758	--	--		✓
H-07	26,717,980	823,902	1,790.14	--		✓
H-10A	26,722,639	825,186	1,704.20	26-41	✓	✓
H-11	26,714,840	826,574	1,867.10	95-105	✓	✓
H-13	26,716,384	823,320	1,820.61	--	✓	✓
H-14	26,722,605	823,168	1,709.57	--		✓
H-15	26,719,120	822,342	1,773.22	--	✓	✓
H-18A	26,721,613	824,126	1,724.52	20-50	✓	✓
H-19	26,721,203	824,407	1,730.64	35-50		✓
H-21R	26,721,149	824,915	1,729.64	30-45	✓	✓
H-36	26,721,873	825,183	1,717.55	30-40		✓
H-38	26,718,902	826,103	1,772.14	--	✓	✓
H-43	26,721,180	824,661	1,731.22	29-44		✓
H-49A	26,723,485	826,110	1,685.64	28 - 48	✓	✓
H-53	26,722,290	824,508	1,715.25	21-41		✓

Table 3-2

MONITOR WELLS

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

WELL IDENTIFIER	NORTHING	EASTING	GROUND SURFACE ELEVATION (feet msl)	SCREEN INTERVAL (feet bgs)	Well Use	
					WATER QUALITY MONITORING[1]	WATER LEVEL MONITORING[2]
H-54	26,721,558	825,502	1,723.35	--		✓
H-55	26,720,010	823,645	1,751.06	26-47	✓	✓
H-56A	26,723,935	825,665	1,681.68	28 - 58	✓	✓
H-57	26,721,521	825,486	1,723.00	30-50		✓
H-58A	26,723,332	825,643	1,690.98	37 - 57	✓	✓
LG-032R	26,718,977	824,346	1,770.74	80-90		✓
LG-033	26,718,998	824,312	1,770.46	--		✓
MC-03	26,721,410	825,210	1,725.73	--		✓
MC-05	26,721,969	825,192	1,713.03	--		✓
MC-06	26,722,160	825,208	1,710.26	--		✓
MC-07	26,721,865	824,933	1,717.26	--		✓
MC-08	26,721,897	824,684	1,718.20	--		✓
MC-21	26,722,461	824,271	1,713.64	19-29		✓
MC-22	26,722,341	824,435	1,715.01	18.5-38.5		✓
MC-23	26,722,269	824,540	1,715.14	25-45		✓
MC-24	26,722,191	824,641	1,714.84	19-39		✓
MC-25	26,722,072	824,800	1,716.26	22-35		✓
MC-26	26,721,868	825,062	1,717.60	22-32		✓
MC-33	26,721,968	824,104	1,718.42	18-33		✓
MC-34	26,721,917	824,356	1,719.66	29.5-49.5		✓
MC-35	26,722,274	824,497	1,715.12	--		✓
MC-36	26,722,275	824,498	1,715.42	--		✓
MC-37	26,722,277	824,526	1,714.30	26-41		✓
MC-38	26,722,338	824,535	1,713.29	20.5-40.5		✓
MC-47	26,722,506	824,641	1,709.29	26 - 45	✓	✓
MC-48	26,722,431	824,953	1,708.20	17-37	✓	✓
MC-49	26,722,360	825,183	1,708.17	21-41	✓	✓
MC-58	26,722,231	824,989	1,711.10	16-35		✓
MC-69	26,721,807	825,236	1,716.98	29-44		✓
MC-71	26,722,509	824,635	1,711.04	31.5-36.5		✓
MC-77	26,722,198	824,228	1,717.54	30-40		✓
MC-78	26,722,002	824,546	1,719.12	34-44		✓
MC-81	26,721,548	824,638	1,723.58	25-35		✓
MC-83	26,722,196	824,543	1,714.73	30-40		✓
MC-84	26,722,287	824,413	1,713.23	29-39		✓
MC-85	26,722,439	824,419	1,712.37	24-34		✓
MC-87	26,722,277	824,735	1,712.52	27-37		✓
MC-89	26,722,120	824,949	1,713.98	25-35		✓
MC-90	26,722,307	824,768	1,712.07	28-38		✓
MC-103	26,721,976	825,009	1,714.85	27-42		✓
MC-104	26,722,168	824,749	1,713.99	27-42		✓
MC-105	26,722,337	824,276	1,712.70	22-37		✓
MC-106	26,722,208	824,475	1,715.44	18-55		✓
MC-107	26,722,014	824,807	1,715.21	18-40		✓
MC-108	26,721,984	825,114	1,715.19	18-40		✓
W-N	26,722,319	824,508	1,716.93	20-40		✓
W-S	26,722,093	824,420	1,716.05	25-45		✓
E-N	26,721,671	825,534	1,722.39	31-51		✓
E-S	26,721,391	825,485	1,727.36	31-51		✓
MC-09	26,721,895	825,447	1,715.14	--		✓
MC-27	26,721,667	825,346	1,721.29	36-46		✓
MC-28	26,721,600	825,441	1,721.92	30-50		✓
MC-29	26,721,515	825,566	1,723.40	37.5-50		✓
MC-30	26,721,434	825,683	1,725.38	36-46		✓
MC-31	26,721,330	825,827	1,725.73	21-41		✓
MC-40	26,721,620	825,546	1,720.37	30-50		✓
MC-41	26,721,583	825,520	1,722.24	31-51		✓
MC-42	26,721,571	825,476	1,722.60	35-55		✓
MC-45	26,722,230	825,400	1,710.98	30-34		✓
MC-46	26,722,230	825,386	1,710.95	30-32	✓	✓
MC-50	26,722,076	825,535	1,711.29	24-49	✓	✓
MC-51	26,721,900	825,648	1,714.12	24-49	✓	✓
MC-52	26,721,894	825,795	1,714.46	23-48		✓
MC-53	26,721,920	825,942	1,713.34	20-40	✓	✓
MC-56	26,721,782	825,598	1,717.68	25-50		✓
MC-61	26,722,433	825,702	1,704.89	27-47		✓

Table 3-2

MONITOR WELLS

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

WELL IDENTIFIER	NORTHING	EASTING	GROUND SURFACE ELEVATION (feet msl)	SCREEN INTERVAL (feet bgs)	Well Use	
					WATER QUALITY MONITORING[1]	WATER LEVEL MONITORING[2]
MC-62	26,722,728	825,881	1,699.00	25-50	✓	✓
MC-63	26,722,717	826,322	1,697.93	25-52		✓
MC-65	26,722,421	826,119	1,703.62	20-41		✓
MC-66	26,722,558	826,221	1,700.73	27-47		✓
MC-68	26,721,730	825,304	1,718.62	28-43		✓
MC-92	26,722,036	825,468	1,712.52	39-49		✓
MC-93	26,721,673	825,949	1,717.92	32-42		✓
MC-94	26,721,595	825,912	1,718.86	30-40		✓
MC-95	26,721,800	825,642	1,716.73	38-48		✓
MC-96	26,721,982	825,403	1,713.46	36-46		✓
MC-97	26,721,426	825,838	1,723.10	31-41		✓
MC-98	26,721,567	825,697	1,721.07	35-45		✓
MC-100	26,721,421	825,791	1,722.41	36-52		✓
MC-101	26,721,549	825,609	1,721.05	35-50		✓
MC-102	26,721,726	825,360	1,717.52	36-52		✓
MC-109	26,721,610	825,294	1,720.57	23.5-50		✓
MC-110	26,721,369	825,685	1,724.52	26.5-49.5		✓
MC-111	26,721,355	825,942	1,724.09	24-41.5		✓
BHCMW-01	26,717,772	823,759	1,791.89	38-61	✓	✓
EC-01	26,719,400	825,718	1,771.11	50-70	✓	✓
EC-02	26,719,454	825,070	1,771.43	50-70	✓	✓
EC-03	26,717,247	824,698	1,803.93	50-70	✓	✓
EC-04	26,717,035	824,136	1,811.48	50-70	✓	✓
EC-05	26,716,713	825,039	1,818.85	40-60	✓	✓
EC-06	26,717,669	824,699	1,803.23	50.5-65.5	✓	
EC-07	26,717,809	824,699	1,795.78	47-62	✓	✓
EC-08	26,717,456	824,077	1,802.81	51-66	✓	
EC-09	26,717,965	824,258	1,791.84	43.5-58.5	✓	
EC-10	26,717,753	823,570	1,789.93	38.5-53.5	✓	✓
ARP-01	26,728,366	828,593	--	--		✓
ARP-02	26,728,364	828,726	--	--		✓
ARP-03	26,728,365	828,861	--	--		✓
ARP-04	26,728,364	829,172	--	--		✓
ARP-05	26,728,453	829,395	--	--		✓
ARP-06	26,728,497	829,532	--	--		✓
ARP-07	26,728,501	829,668	--	--		✓
M-010	26,716,693	828,539	--	--		✓
M-011	26,717,608	828,619	--	--		✓
M-012A	26,717,575	828,179	--	--		✓
M-014	26,719,447	827,043	--	--		✓
M-017A	26,719,054	828,062	--	--		✓
M-018	26,720,239	828,669	--	--		✓
M-019	26,719,520	828,842	--	--		✓
M-022A	26,719,532	828,270	--	--		✓
M-023	26,721,445	827,377	--	--		✓
M-025	26,719,558	827,680	--	--		✓
M-031A	26,718,290	828,368	--	--		✓
M-035	26,718,895	828,512	--	--		✓
M-036	26,719,612	828,072	--	--		✓
M-037	26,719,477	827,418	--	--		✓
M-038	26,719,579	827,880	--	--		✓
M-039	26,719,582	828,552	--	--		✓
M-044	26,721,656	827,282	--	--		✓
M-048	26,721,338	828,304	--	--		✓
M-050	26,718,316	828,083	--	--		✓
M-052	26,717,985	828,394	--	--		✓
M-055	26,719,875	827,684	--	--		✓
M-056	26,719,910	827,985	--	--		✓
M-057A	--	--	--	--		✓
M-058	26,719,956	828,280	--	--		✓
M-060	26,719,924	828,083	--	--		✓
M-061	26,720,008	828,674	--	--		✓
M-064	26,719,748	827,601	--	--		✓
M-065	26,719,799	827,904	--	--		✓
M-066	26,719,840	828,187	--	--		✓
M-067	26,719,885	828,511	--	--		✓

Table 3-2

MONITOR WELLS

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

WELL IDENTIFIER	NORTHING	EASTING	GROUND SURFACE ELEVATION (feet msl)	SCREEN INTERVAL (feet bgs)	Well Use	
					WATER QUALITY MONITORING[1]	WATER LEVEL MONITORING[2]
M-068	26,719,920	828,754	--	--		✓
M-069	26,719,942	827,269	--	--		✓
M-070	26,719,960	827,570	--	--		✓
M-071	26,719,994	827,862	--	--		✓
M-072	26,720,029	828,175	--	--		✓
M-073	26,720,074	828,431	--	--		✓
M-074	26,720,118	828,717	--	--		✓
M-076	26,718,660	827,551	--	--		✓
M-077	26,718,046	828,932	--	--		✓
M-078	26,719,891	827,779	--	--		✓
M-079	26,720,104	827,385	--	--		✓
M-080	26,720,166	827,762	--	--		✓
M-081A	26,720,228	828,143	--	--		✓
M-083	26,720,215	827,587	--	--		✓
M-084	26,720,243	827,770	--	--		✓
M-085	26,720,274	827,965	--	--		✓
M-086	26,720,293	828,145	--	--		✓
M-087	26,720,332	828,361	--	--		✓
M-088	26,720,369	828,592	--	--		✓
M-089	26,719,350	827,892	--	--		✓
M-092	26,717,532	827,138	--	--		✓
M-093	26,717,686	827,143	--	--		✓
M-094	26,722,696	827,223	--	--		✓
M-095	26,722,702	827,427	--	--		✓
M-096	26,722,700	827,626	--	--		✓
M-097	26,717,900	827,401	--	--		✓
M-098	26,720,906	826,870	--	--		✓
M-099	26,720,855	827,369	--	--		✓
M-100	26,720,828	827,706	--	--		✓
M-101	26,720,792	828,061	--	--		✓
M-102	26,720,776	828,384	--	--		✓
M-115	--	--	--	--		✓
FINE-GRAINED UPPER MUDDY CREEK FORMATION						
MCF-BW-08	26,719,495	825,300	1,761.52	77-87	✓	
MCF-BW-09B	26,719,453	825,735	1,761.63	58-78	✓	
MCF-BW-10	26,718,620	823,622	1,777.31	57-72	✓	
MCF-BW-11	26,718,694	824,045	1,776.18	57-72	✓	
MCF-BW-13	26,721,324	822,711	1,731.57	49-69	✓	
CP-01	26,716,403	825,288	1,827.62	115 - 125	✓	
DPT-01	26,717,350	825,680	1,807.57	114 - 129	✓	
MC-MW-09	26,716,752	825,795	1,812.62	90 - 120	✓	
MC-MW-10	26,717,919	825,524	1,801.21	85 - 115	✓	
MC-MW-11	26,717,766	824,860	1,801.94	100.5 - 120.5	✓	
MC-MW-12	26,717,903	826,294	1,797.38	100 - 120	✓	
COARSE-GRAINED UPPER MUDDY CREEK FORMATION						
TR-01	26,719,958	826,168	1,752.18	282-312	✓	
TR-03	26,718,942	826,343	1,770.08	220-250	✓	
TR-05	26,717,592	826,596	1,800.27	221-251	✓	
TR-11	26,721,918	825,423	1,717.12	210-230	✓	
MW-08	26,717,925	825,505	1,800.95	275-295	✓	

Notes:
feet msl = Feet above mean sea level
feet bgs = Feet below ground surface
-- = Not available

1 Monitoring well is included in current and/or historic groundwater sampling programs.
2 Monitoring well was included in the November 2006 groundwater elevation survey.

TABLE 3-3
WATER LEVEL DATA

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

WELL IDENTIFIER	DATE MEASURED	MEASURING POINT ELEVATION (FEET MSL)	DEPTH TO WATER (FEET BMP)	GROUNDWATER ELEVATION (FEET MSL)
ALLUVIAL AQUIFER				
AA-BW-12A	11/15/2006	1778.54	51.69	1726.85
AA-BW-12A	1/11/2007	1778.54	51.43	1727.11
AA-BW-12A	1/19/2007	1778.54	51.59	1726.95
AA-BW-12A	4/18/2007	1778.54	51.48	1727.06
AA-BW-12A	4/20/2007	1778.54	51.45	1727.09
AA-MW-05	11/13/2006	1845.70	55.24	1790.46
AA-MW-05	1/12/2007	1845.70	55.11	1790.59
AA-MW-05	1/18/2007	1845.70	55.21	1790.49
AA-MW-05	4/17/2007	1845.70	55.00	1790.70
AA-MW-07	11/13/2006	1764.22	37.97	1726.25
AA-MW-07	1/11/2007	1764.22	38.13	1726.09
AA-MW-07	1/22/2007	1764.22	38.16	1726.06
AA-MW-07	4/18/2007	1764.22	38.33	1725.89
AA-MW-07	4/23/2007	1764.22	38.25	1725.97
AA-MW-13	11/13/2006	1809.64	35.98	1773.66
AA-MW-13	1/11/2007	1809.64	34.96	1774.68
AA-MW-13	1/19/2007	1809.64	35.14	1774.50
AA-MW-13	4/18/2007	1809.64	36.20	1773.44
AA-MW-13	4/23/2007	1809.64	36.17	1773.47
ARP-06A	4/20/2007	1614.32	UTM	UTM
ARP-06A	1/12/2007	1614.32	28.27	1586.05
B-01	11/13/2006	1807.14	40.45	1766.69
B-01	1/11/2007	1807.14	39.90	1767.24
B-01	1/23/2007	1807.14	39.87	1767.27
B-01	4/18/2007	1807.14	40.29	1766.85
B-01	4/24/2007	1807.14	40.20	1766.94
B-04	11/14/2006	1800.89	43.20	1757.69
B-04	1/12/2007	1800.89	43.39	1757.50
B-04	1/24/2007	1800.89	43.35	1757.54
B-04	4/18/2007	1800.89	43.39	1757.50
B-04	4/24/2007	1800.89	43.47	1757.42
B-07	11/13/2006	1800.97	53.57	1747.40
B-07	1/11/2007	1800.97	53.27	1747.70
B-07	1/23/2007	1800.97	53.42	1747.55
B-07	4/18/2007	1800.97	53.20	1747.77
B-07	4/23/2007	1800.97	53.20	1747.77
B-17	11/13/2006	1773.98	46.43	1727.55
B-17	1/11/2007	1773.98	46.50	1727.48
B-17	1/19/2007	1773.98	46.34	1727.64
B-17	4/18/2007	1773.98	46.39	1727.59
B-17	4/19/2007	1773.98	46.41	1727.57
B-18	11/13/2006	1774.09	44.80	1729.29

TABLE 3-3
WATER LEVEL DATA

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

WELL IDENTIFIER	DATE MEASURED	MEASURING POINT ELEVATION (FEET MSL)	DEPTH TO WATER (FEET BMP)	GROUNDWATER ELEVATION (FEET MSL)
B-18	1/11/2007	1774.09	44.72	1729.37
B-18	1/18/2007	1774.09	44.95	1729.14
B-18	4/18/2007	1774.09	44.63	1729.46
B-18	4/19/2007	1774.09	44.57	1729.52
EC-01	1/11/2007	1771.11	53.91	1717.20
EC-01	1/22/2007	1771.11	54.12	1716.99
EC-01	4/18/2007	1771.11	54.07	1717.04
EC-01	4/19/2007	1771.11	54.08	1717.03
EC-02	11/13/2006	1771.43	56.17	1715.26
EC-02	1/11/2007	1771.43	56.08	1715.35
EC-02	1/24/2007	1771.43	56.29	1715.14
EC-02	4/18/2007	1771.43	56.14	1715.29
EC-02	4/24/2007	1771.43	56.20	1715.23
EC-03	11/13/2006	1804.04	43.38	1760.66
EC-03	1/11/2007	1804.04	43.01	1761.03
EC-03	1/25/2007	1804.04	42.98	1761.06
EC-03	4/18/2007	1804.04	42.37	1761.67
EC-03	4/24/2007	1804.04	42.30	1761.74
EC-04	11/13/2006	1811.48	UTM	UTM
EC-04	1/15/2007	1811.48	48.22	1763.26
EC-04	1/23/2007	1811.48	48.07	1763.41
EC-04	4/18/2007	1811.48	47.91	1763.57
EC-04	4/20/2007	1811.48	47.87	1763.61
EC-07	11/13/2006	1797.98	53.58	1744.40
EC-07	1/11/2007	1797.97	53.36	1744.61
EC-07	1/19/2007	1797.97	53.97	1744.00
EC-07	4/18/2007	1797.97	53.17	1744.80
EC-07	4/20/2007	1797.97	53.11	1744.86
EC-10	11/13/2006	1792.01	44.84	1747.17
EC-10	1/11/2007	1792.08	44.69	1747.39
EC-10	1/19/2007	1792.08	44.70	1747.38
EC-10	4/18/2007	1792.08	44.69	1747.39
EC-10	4/20/2007	1792.08	44.55	1747.53
H-11	11/13/2006	1868.47	69.40	1799.07
H-11	1/12/2007	1868.47	70.62	1797.85
H-11	1/16/2007	1868.47	70.46	1798.01
H-11	4/16/2007	1868.47	74.53	1793.94
H-11	4/17/2007	1868.47	74.53	1793.94
H-13	11/13/2006	1821.40	39.27	1782.13
H-13	1/12/2007	1821.40	39.05	1782.35
H-13	1/15/2007	1821.40	39.18	1782.22
H-13	4/16/2007	1821.40	38.85	1782.55
H-13	4/17/2007	1821.40	38.85	1782.55

TABLE 3-3
WATER LEVEL DATA

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

WELL IDENTIFIER	DATE MEASURED	MEASURING POINT ELEVATION (FEET MSL)	DEPTH TO WATER (FEET BMP)	GROUNDWATER ELEVATION (FEET MSL)
H-18A	12/1/2006	1726.36	29.38	1694.33
H-18A	1/17/2007	1726.36	29.23	1697.13
H-18A	4/18/2007	1726.36	29.45	1696.91
H-21R	12/1/2006	1730.35	32.03	1698.32
H-21R	1/23/2007	1730.35	31.96	1698.39
H-21R	4/20/2007	1730.35	32.07	1698.28
H-49A	11/30/2006	1687.96	26.96	1661.00
H-49A	1/18/2007	1687.96	26.82	1661.14
H-49A	4/17/2007	1687.96	26.56	1661.40
H-56A	11/30/2006	1684.13	24.73	1659.40
H-56A	1/17/2007	1684.13	24.42	1659.71
H-56A	4/18/2007	1684.13	24.17	1659.96
H-58A	11/30/2006	1693.43	30.26	1663.17
H-58A	1/18/2007	1693.43	30.16	1663.27
H-58A	4/18/2007	1693.43	29.76	1663.67
HMW-13	11/15/2006	1591.97	13.10	1578.87
HMW-13	1/11/2007	1595.09	16.18	1578.91
HMW-13	4/16/2007	1595.09	13.93	1581.16
MC-46	11/29/2006	1710.95	25.68	1685.27
MC-46	1/17/2007	1710.95	28.72	1682.23
MC-46	4/18/2007	1710.95	27.24	1683.71
MC-47	11/29/2006	1710.36	34.75	1675.61
MC-47	1/17/2007	1710.36	33.86	1676.50
MC-47	4/18/2007	1710.36	34.56	1675.80
MC-48	11/29/2006	1709.90	29.85	1680.05
MC-48	1/24/2007	1709.90	29.64	1680.26
MC-48	4/18/2007	1709.90	29.53	1680.37
MC-49	12/4/2006	1710.08	27.09	1682.99
MC-49	1/19/2007	1710.08	26.90	1683.18
MC-49	4/19/2007	1710.08	27.11	1682.97
MC-50	11/29/2006	1713.32	27.14	1686.18
MC-50	1/18/2007	1713.32	26.87	1686.45
MC-50	4/18/2007	1713.32	27.42	1685.90
MC-51	12/1/2006	1715.88	28.10	1687.80
MC-51	1/24/2007	1715.88	27.90	1687.98
MC-51	4/20/2007	1715.88	28.36	1687.52
MC-53	12/4/2006	1715.27	28.89	1686.38
MC-53	1/17/2007	1715.27	28.66	1686.61
MC-53	4/18/2007	1715.27	29.11	1686.16
MW-01	11/13/2006	1851.18	62.37	1788.81
MW-01	1/12/2007	1851.18	62.19	1788.99
MW-01	1/16/2007	1851.18	62.12	1789.06
MW-01	4/18/2007	1851.18	61.78	1789.40

TABLE 3-3
WATER LEVEL DATA

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

WELL IDENTIFIER	DATE MEASURED	MEASURING POINT ELEVATION (FEET MSL)	DEPTH TO WATER (FEET BMP)	GROUNDWATER ELEVATION (FEET MSL)
MW-01	4/19/2007	1851.18	61.81	1789.37
MW-A-J	11/15/2006	1649.64	8.74	1640.90
MW-A-J	1/11/2007	1649.64	8.55	1641.09
MW-A-J	4/16/2007	1649.64	8.51	1641.13
MW-APX-5-7	11/14/2006	1613.76	6.79	1606.97
MW-APX-5-7	1/11/2007	1613.76	7.41	1606.35
MW-APX-5-7	4/17/2007	1613.76	7.19	1606.57
MW-K1	11/15/2006	1633.98	9.56	1624.42
MW-K1	1/11/2007	1633.98	9.54	1624.44
MW-K1	4/16/2007	1633.98	9.58	1624.40
MW-K5	11/14/2006	1598.81	24.44	1574.37
MW-K5	1/11/2007	1598.81	26.58	1572.23
MW-K5	1/19/2007	1598.81	26.38	1572.43
MW-K5	4/16/2007	1598.81	28.25	1570.56
MW-K5	4/19/2007	1598.81	28.21	1570.60
MW-R	11/14/2006	1667.90	13.29	1654.61
MW-R	1/11/2007	1667.90	13.11	1654.79
MW-R	4/16/2007	1667.90	12.94	1654.96
MW-S	11/15/2006	1609.02	19.23	1589.79
MW-S	1/11/2007	1609.02	22.00	1587.02
MW-S	1/16/2007	1609.02	22.28	1586.74
MW-S	4/16/2007	1609.02	19.06	1589.96
MW-S	4/18/2007	1609.02	19.20	1589.82
MW-U	11/14/2006	1590.96	15.00	1575.96
MW-U	1/11/2007	1590.96	16.92	1574.04
MW-U	1/17/2007	1590.96	15.00	1575.96
MW-U	4/17/2007	1590.96	14.37	1576.59
MW-U	4/18/2007	1590.96	14.18	1576.78
PC-002	11/14/2006	1596.20	20.13	1576.07
PC-002	1/11/2007	1596.20	22.60	1573.60
PC-002	1/17/2007	1596.20	22.60	1573.60
PC-002	4/16/2007	1596.20	24.24	1571.96
PC-010R	11/14/2006	1617.41	30.08	1587.33
PC-010R	1/11/2007	1617.41	30.08	1587.33
PC-010R2	1/11/2007	1616.33	28.53	1587.80
PC-028	11/13/2006	1650.80	11.53	1639.27
PC-028	1/11/2007	1650.80	11.59	1639.21
PC-028	4/16/2007	1650.80	11.72	1639.08
PC-031	11/13/2006	1657.91	11.11	1646.80
PC-031	1/11/2007	1657.91	11.04	1646.87
PC-031	1/18/2007	1657.91	11.07	1646.84
PC-031	4/19/2007	1657.91	10.89	1647.02
PC-055	11/14/2006	1617.60	24.10	1593.50

TABLE 3-3
WATER LEVEL DATA

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

WELL IDENTIFIER	DATE MEASURED	MEASURING POINT ELEVATION (FEET MSL)	DEPTH TO WATER (FEET BMP)	GROUNDWATER ELEVATION (FEET MSL)
PC-055	1/11/2007	1617.60	24.21	1593.39
PC-055	1/16/2007	1617.60	24.52	1593.08
PC-055	4/16/2007	1617.60	25.75	1591.85
PC-055	4/17/2007	1617.60	25.92	1591.68
PC-056	11/15/2006	1568.99	7.99	1561.00
PC-056	1/11/2007	1568.99	8.87	1560.12
PC-056	4/17/2007	1568.99	10.77	1558.22
PC-064	11/13/2006	1675.25	6.66	1668.59
PC-064	1/11/2007	1675.25	6.89	1668.36
PC-064	4/16/2007	1675.25	6.92	1668.33
PC-067	11/13/2006	1673.91	11.15	1662.76
PC-067	1/11/2007	1673.91	11.06	1662.85
PC-067	4/16/2007	1673.91	11.11	1662.80
PC-067	4/25/2007	1673.91	11.11	1662.80
PC-077	11/14/2006	1566.71	5.19	1561.52
PC-077	1/11/2007	1566.71	6.54	1560.17
PC-077	1/16/2007	1566.71	6.67	1560.04
PC-077	4/16/2007	1566.71	6.95	1559.76
PC-077	4/17/2007	1566.71	6.95	1559.76
PC-086	11/14/2006	1553.66	2.21	1551.45
PC-086	1/11/2007	1553.66	3.10	1550.56
PC-086	1/16/2007	1553.66	3.13	1550.53
PC-086	4/17/2007	1553.66	5.17	1548.49
PC-086	4/17/2007	1553.66	5.17	1548.49
TR-06	11/13/2006	1800.36	37.75	1762.61
TR-06	1/12/2007	1800.36	37.90	1762.46
TR-06	1/23/2007	1800.36	37.97	1762.39
TR-06	4/18/2007	1800.36	37.57	1762.79
TR-06	4/24/2007	1800.36	37.77	1762.59
TWE-15	11/14/2006	1633.28	9.74	1623.54
TWE-15	1/11/2007	1633.28	9.73	1623.55
TWE-15	4/16/2007	1633.28	9.66	1623.62
FINE-GRAINED UPPER MUDDY CREEK FORMATION				
CP-01	11/13/2006	1827.62	38.23	1789.39
CP-01	1/11/2007	1827.62	37.95	1789.67
CP-01	1/25/2007	1827.62	38.51	1789.11
CP-01	4/18/2007	1827.62	37.77	1789.85
CP-01	4/19/2007	1827.62	37.81	1789.81
DPT-01	11/13/2006	1807.57	39.31	1768.26
DPT-01	1/11/2007	1807.57	36.84	1770.73
DPT-01	1/25/2007	1807.57	38.72	1768.85
DPT-01	4/18/2007	1807.57	36.12	1771.45
DPT-01	4/24/2007	1807.57	36.18	1771.39

TABLE 3-3
WATER LEVEL DATA

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

WELL IDENTIFIER	DATE MEASURED	MEASURING POINT ELEVATION (FEET MSL)	DEPTH TO WATER (FEET BMP)	GROUNDWATER ELEVATION (FEET MSL)
MC-MW-09	11/13/2006	1814.98	39.04	1775.94
MC-MW-09	1/11/2007	1814.98	38.70	1776.28
MC-MW-09	1/23/2007	1814.98	39.00	1775.98
MC-MW-09	4/18/2007	1814.98	39.69	1775.29
MC-MW-09	4/23/2007	1814.98	39.69	1775.29
MC-MW-10	11/13/2006	1803.91	57.13	1746.78
MC-MW-10	1/11/2007	1803.91	56.90	1747.01
MC-MW-10	1/25/2007	1803.91	57.00	1746.91
MC-MW-10	4/18/2007	1803.91	56.87	1747.04
MC-MW-11	11/13/2006	1804.50	59.13	1745.37
MC-MW-11	1/12/2007	1804.50	58.74	1745.76
MC-MW-11	1/24/2007	1804.50	58.70	1745.80
MC-MW-11	4/18/2007	1804.50	59.01	1745.49
MC-MW-11	4/25/2007	1804.50	58.48	1746.02
MC-MW-12	12/14/2006	1800.04	41.53	1758.51
MC-MW-12	1/11/2007	1800.04	41.25	1758.79
MC-MW-12	1/24/2007	1800.04	41.29	1758.75
MC-MW-12	4/18/2007	1800.04	41.23	1758.81
MC-MW-12	4/24/2007	1800.04	41.26	1758.78
COARSE-GRAINED UPPER MUDDY CREEK FORMATION				
MW-08	11/27/2006	1803.63	UTM	UTM
MW-08	3/6/2007	1803.63	-5.08	1808.71
MW-08	4/16/2007	1803.63	0.00	1803.63
MW-08	4/16/2007	1803.63	0.00	1803.63
TR-01	12/6/2006	1752.18	UTM	UTM
TR-01	1/24/2007	1752.18	1.05	1751.13
TR-01	3/5/2007	1752.18	0.25	1751.93
TR-01	4/17/2007	1752.18	0.25	1751.93
TR-01	4/25/2007	1752.18	0.00	1752.18
TR-03	11/17/2006	1772.84	UTM	UTM
TR-03	3/5/2007	1772.84	-4.62	1777.46
TR-03	4/17/2007	1772.84	-2.77	1775.61
TR-05	11/13/2006	1800.27	UTM	UTM
TR-05	3/5/2007	1800.27	-3.23	1803.50
TR-05	4/17/2007	1800.27	0.18	1800.09
TR-05	4/17/2007	1800.27	0.18	1800.09
TR-07	11/14/2006	1829.03	21.14	1807.89
TR-07	1/12/2007	1829.03	20.44	1808.59
TR-07	3/8/2007	1829.03	20.16	1808.87
TR-07	4/18/2007	1829.03	20.02	1809.01
TR-09	11/13/2006	1854.29	47.25	1807.04
TR-09	1/12/2007	1854.29	46.54	1807.75
TR-09	3/5/2007	1854.29	46.19	1808.10

TABLE 3-3
WATER LEVEL DATA

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

WELL IDENTIFIER	DATE MEASURED	MEASURING POINT ELEVATION (FEET MSL)	DEPTH TO WATER (FEET BMP)	GROUNDWATER ELEVATION (FEET MSL)
TR-09	4/18/2007	1854.29	45.88	1808.41
TR-11	11/17/2006	1717.12	UTM	UTM
TR-11	3/5/2007	1717.12	-6.35	1723.47
TR-11	4/16/2007	1717.12	-6.93	1724.05
TR-11	4/17/2007	1717.12	0.00	1717.12
TR-12	11/17/2006	1695.84	UTM	UTM
TR-12	3/5/2007	1695.84	-20.21	1716.05
TR-12	4/16/2007	1695.84	-21.94	1717.78

Footnotes:
MSL = mean sea level
BMP = below measuring point
UTM = unable to measure

TABLE 4-1
PREVALENCE TABLE
SITE-RELATED CHEMICALS IN SURFACE SOIL

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

GROUP	CHEMICAL	UNITS	MONTROSE SRC	STAUFFER SRC	PRG	DAF1 SOIL	DAF 20 SOIL	TOTAL ANALYSES	NUMBER DETECTS	PERCENT DETECTIONS	MINIMUM DETECTED VALUE	MAXIMUM DETECTED VALUE	MINIMUM DETECTION LIMIT	MAXIMUM DETECTION LIMIT	NUMBER DETECTS > PRG	NUMBER NDS > PRG	PERCENT DETECTIONS >PRG	NUMBER DETECTS > DAF1	PERCENT DETECTIONS >DAF1	NUMBER DETECTS > DAF20	PERCENT DETECTIONS >DAF20
ALDEHYDES	CHLORAL	mg/kg	✓		NE			36	3	8.3	9.30E-03	0.093	0.067	1.7	-	-	-	-	-	-	-
ALDEHYDES	FORMALDEHYDE	mg/kg		✓	100,000			36	4	11.1	0.55	0.70	1.0	1.0	-	-	-	-	-	-	-
ASBESTOS	LONG AMPHIBOLE PROTOCOL STRUCTURES	S/g_{PM10}		✓	NE			18	4	22.2	2,993,002	11,974,353	2,839,999	2,999,318	-	-	-	-	-	-	-
ASBESTOS	LONG ASBESTOS PROTOCOL STRUCTURES	S/g_{PM10}		✓	NE			18	7	38.9	2,998,288	17,921,148	2,976,383	2,999,318	-	-	-	-	-	-	-
ASBESTOS	LONG CHRYSOTILE PROTOCOL STRUCTURES	S/g_{PM10}		✓	NE			18	5	27.8	2,993,002	17,039,998	2,976,383	2,999,318	-	-	-	-	-	-	-
ASBESTOS	TOTAL AMPHIBOLE PROTOCOL STRUCTURES	S/g_{PM10}		✓	NE			18	5	27.8	2,840,000	71,846,120	2,976,383	2,999,318	-	-	-	-	-	-	-
ASBESTOS	TOTAL ASBESTOS PROTOCOL STRUCTURES	S/g_{PM10}		✓	NE			18	8	44.4	2,995,349	71,846,120	2,976,383	2,999,318	-	-	-	-	-	-	-
ASBESTOS	TOTAL ASBESTOS STRUCTURES	S/g_{PM10}		✓	NE			18	8	44.4	1.0	24	-	-	-	-	-	-	-	-	-
ASBESTOS	TOTAL CHRYSOTILE PROTOCOL STRUCTURES	S/g_{PM10}		✓	NE			18	6	33.3	2,995,643	32,855,436	2,976,383	2,999,465	-	-	-	-	-	-	-
DIOXINS/FURANS	1,2,3,4,6,7,8-HEPTACHLORINATED DIBENZO-P-DIOXIN	mg/kg		✓	NE			23	18	78.3	8.00E-07	3.01E-03	4.80E-07	3.00E-05	-	-	-	-	-	-	-
DIOXINS/FURANS	1234678-HEPTACHLORINATED DIBENZOFURAN	mg/kg		✓	NE			23	13	56.5	6.70E-07	2.18E-03	1.70E-07	2.00E-04	-	-	-	-	-	-	-
DIOXINS/FURANS	1234789-HEPTACHLORINATED DIBENZOFURAN	mg/kg		✓	NE			23	19	82.6	2.50E-07	7.30E-04	3.00E-07	5.40E-06	-	-	-	-	-	-	-
DIOXINS/FURANS	123478-HEXACHLORINATED DIBENZOFURAN	mg/kg		✓	NE			23	21	91.3	2.40E-07	1.55E-03	2.80E-07	8.50E-07	-	-	-	-	-	-	-
DIOXINS/FURANS	123478-HEXACHLORINATED DIBENZO-P-DIOXIN	mg/kg		✓	NE			23	13	56.5	4.20E-07	2.92E-04	1.00E-07	2.30E-06	-	-	-	-	-	-	-
DIOXINS/FURANS	123678-HEXACHLORINATED DIBENZOFURAN	mg/kg		✓	NE			23	19	82.6	1.60E-07	5.81E-04	2.00E-07	2.70E-06	-	-	-	-	-	-	-
DIOXINS/FURANS	123678-HEXACHLORINATED DIBENZO-P-DIOXIN	mg/kg		✓	NE			23	14	60.9	2.70E-07	5.73E-04	1.00E-07	2.80E-05	-	-	-	-	-	-	-
DIOXINS/FURANS	123789-HEXACHLORINATED DIBENZOFURAN	mg/kg		✓	NE			23	14	60.9	2.10E-07	1.33E-05	1.80E-07	5.30E-05	-	-	-	-	-	-	-
DIOXINS/FURANS	123789-HEXACHLORINATED DIBENZO-P-DIOXIN	mg/kg		✓	NE			23	14	60.9	4.07E-07	3.25E-04	1.60E-07	5.70E-06	-	-	-	-	-	-	-
DIOXINS/FURANS	12378-PENTACHLORINATED DIBENZOFURAN	mg/kg		✓	NE			23	17	73.9	5.30E-07	9.09E-04	1.50E-07	2.00E-04	-	-	-	-	-	-	-
DIOXINS/FURANS	12378-PENTACHLORINATED DIBENZO-P-DIOXIN	mg/kg		✓	NE			23	9	39.1	3.99E-06	1.58E-04	1.20E-07	1.20E-04	-	-	-	-	-	-	-
DIOXINS/FURANS	2,3,7,8-TCDD	mg/kg		✓	1.60E-05			23	8	34.8	6.10E-07	2.45E-05	2.00E-07	2.60E-03	2	1	9	-	-	-	-
DIOXINS/FURANS	234678-HEXACHLORINATED DIBENZOFURAN	mg/kg		✓	NE			23	18	78.3	1.90E-07	6.26E-04	1.20E-07	1.80E-06	-	-	-	-	-	-	-
DIOXINS/FURANS	23478-PENTACHLORINATED DIBENZOFURAN	mg/kg		✓	NE			23	18	78.3	2.30E-07	7.65E-04	2.50E-07	4.60E-04	-	-	-	-	-	-	-
DIOXINS/FURANS	2378-TETRACHLORINATED DIBENZOFURAN	mg/kg		✓	NE			22	15	68.2	4.90E-07	5.29E-03	1.60E-07	2.00E-03	-	-	-	-	-	-	-
DIOXINS/FURANS	HEPTACHLORINATED DIBENZOFURAN	mg/kg		✓	NE			13	12	92.3	1.47E-06	4.42E-03	1.30E-07	1.30E-07	-	-	-	-	-	-	-
DIOXINS/FURANS	HEPTACHLORINATED DIBENZO-P-DIOXIN	mg/kg		✓	NE			13	13	100	1.21E-06	4.82E-03	-	-	-	-	-	-	-	-	-
DIOXINS/FURANS	HEXACHLORINATED DIBENZOFURAN	mg/kg		✓	NE			13	13	100	2.30E-07	0.017	-	-	-	-	-	-	-	-	-
DIOXINS/FURANS	HEXACHLORINATED DIBENZO-P-DIOXIN	mg/kg		✓	NE			13	12	92.3	1.41E-06	3.94E-03	8.40E-07	8.40E-07	-	-	-	-	-	-	-
DIOXINS/FURANS	OCTACHLORINATED DIBENZOFURAN	mg/kg		✓	NE			23	20	87	7.70E-07	0.041	1.33E-06	1.10E-05	-	-	-	-	-	-	-
DIOXINS/FURANS	OCTACHLORINATED DIBENZO-P-DIOXIN	mg/kg		✓	NE			23	19	82.6	2.13E-06	7.26E-03	2.29E-06	3.70E-05	-	-	-	-	-	-	-
DIOXINS/FURANS	PENTACHLORINATED DIBENZOFURAN	mg/kg		✓	NE			13	13	100	1.16E-06	0.050	-	-	-	-	-	-	-	-	-
DIOXINS/FURANS	PENTACHLORINATED DIBENZO-P-DIOXIN	mg/kg		✓	NE			13	11	84.6	2.63E-05	2.52E-03	2.50E-07	2.80E-07	-	-	-	-	-	-	-
DIOXINS/FURANS	TETRACHLORINATED DIBENZOFURAN	mg/kg		✓	NE			13	13	100	1.35E-06	0.11	-	-	-	-	-	-	-	-	-
DIOXINS/FURANS	TETRACHLORINATED DIBENZO-P-DIOXIN	mg/kg		✓	NE			13	11	84.6	1.25E-06	6.75E-04	2.90E-07	4.00E-07	-	-	-	-	-	-	-
GENERAL CHEMICAL	TOTAL INORGANIC CARBON	mg/kg			NE			13	13	100	5,340	30,400	-	-	-	-	-	-	-	-	-
GENERAL CHEMICAL	TOTAL ORGANIC CARBON	mg/Kg			NE			13	11	84.6	700	44,900	1,000	1,000	-	-	-	-	-	-	-
INDICATOR CHEMICAL	ALKALINITY AS CACO3	mg/kg			NE			23	23	100	1,200	20,000	-	-	-	-	-	-	-	-	-
INDICATOR CHEMICAL	ALKALINITY, BICARBONATE (AS CACO3)	mg/kg			NE			23	23	100	1,100	20,000	-	-	-	-	-	-	-	-	-
INDICATOR CHEMICAL	ALKALINITY, CARBONATE (AS CACO3)	mg/kg			NE			23	23	100	100	9,200	-	-	-	-	-	-	-	-	-
INDICATOR CHEMICAL	AMMONIA	mg/kg	✓	✓	NE			29	11	37.9	0.80	2.5	5.0	5.0	-	-	-	-	-	-	-
INDICATOR CHEMICAL	CHLORIDE	mg/kg	✓		NE			52	49	94.2	2.0	14,000	5.0	9.8	-	-	-	-	-	-	-
INDICATOR CHEMICAL	IRON	mg/kg	✓	✓	100,000			41	41	100	3,000	22,000	-	-	-	-	-	-	-	-	-
INDICATOR CHEMICAL	PH	pH Units	✓		NE			52	52	100	6.8	12	-	-	-	-	-	-	-	-	-
INDICATOR CHEMICAL	SODIUM	mg/kg	✓	✓	NE			41	41	100	140	16,000	-	-	-	-	-	-	-	-	-
INDICATOR CHEMICAL	SULFATE	mg/kg	✓		NE			45	44	97.8	12	14,000	5.0	5.0	-	-	-	-	-	-	-
INDICATOR CHEMICAL	SULFUR	mg/KG	✓		NE			16	16	100	207	3,170	-	-	-	-	-	-	-	-	-
INORGANIC	FLUORIDE	mg/kg	✓		36,900			16	11	68.8	1.5	5.0	5.0	5.0	-	-	-	-	-	-	-
INORGANIC	IODIDE	mg/kg		✓	NE			13	7	53.8	6.50E-03	11	0.10	0.50	-	-	-	-	-	-	-
INORGANIC	NITRATE	mg/kg		✓	NE			29	24	82.8	0.63	20	1.1	1.1	-	-	-	-	-	-	-
INORGANIC	TOTAL CARBON	mg/kg			NE			13	13	100	6,350	70,900	-	-	-	-	-	-	-	-	-

TABLE 4-1
PREVALENCE TABLE
SITE-RELATED CHEMICALS IN SURFACE SOIL

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

GROUP	CHEMICAL	UNITS	MONTROSE SRC	STAUFFER SRC	PRG	DAF1 SOIL	DAF 20 SOIL	TOTAL ANALYSES	NUMBER DETECTS	PERCENT DETECTIONS	MINIMUM DETECTED VALUE	MAXIMUM DETECTED VALUE	MINIMUM DETECTION LIMIT	MAXIMUM DETECTION LIMIT	NUMBER DETECTS > PRG	NUMBER NDS > PRG	PERCENT DETECTIONS >PRG	NUMBER DETECTS > DAF1	PERCENT DETECTIONS >DAF1	NUMBER DETECTS > DAF20	PERCENT DETECTIONS >DAF20
METAL	ALUMINUM	mg/kg	✓	✓	100,000			41	41	100	1,000	16,000	-	-	-	-	-	-	-	-	-
METAL	ANTIMONY	mg/kg	✓	✓	409	0.3	5	41	4	9.8	0.74	56	0.99	1.0	-	-	-	4	10	1	2
METAL	ARSENIC	mg/kg	✓	✓	1.59	1	29	41	41	100	0.85	4.9	-	-	-	-	-	40	98	-	-
METAL	BARIUM	mg/kg	✓		66,600	82	1,600	41	41	100	71	360	-	-	-	-	-	40	98	-	-
METAL	BERYLLIUM	mg/kg	✓	✓	1,940	3	63	41	40	97.6	0.17	0.87	0.30	0.30	-	-	-	-	-	-	-
METAL	BORON	mg/kg			100,000			41	19	46.3	1.8	11	5.0	9.9	-	-	-	-	-	-	-
METAL	CADMIUM	mg/kg	✓	✓	451	0.4	8	41	34	82.9	0.043	0.94	0.50	0.50	-	-	-	3			
METAL	CALCIUM	mg/kg	✓	✓	NE			41	41	100	2,200	79,000	-	-	-	-	-	-	-	-	-
METAL	CHROMIUM	mg/kg	✓	✓	448	2	38	41	41	100	3.2	46			-	-	-	41	100	1	2
METAL	COBALT	mg/kg	✓	✓	1,920			41	41	100	0.78	8.8	-	-	-	-	-	-	-	-	-
METAL	COPPER	mg/kg	✓	✓	40,900			41	41	100	3.3	63	-	-	-	-	-	-	-	-	-
METAL	CYANIDE	mg/kg	✓	✓	12,300			29	2	6.9	0.94	1.6	0.50	0.50	-	-	-	-	-	-	-
METAL	HEXAVALENT CHROMIUM	mg/kg	✓	✓	64	2	38	34	13	38.2	0.021	1.4	0.20	0.20	-	-	-	-	-	-	-
METAL	LEAD	mg/kg	✓	✓	800			41	41	100	4.3	300	-	-	-	-	-	-	-	-	-
METAL	LITHIUM	mg/kg			20,400			23	18	78.3	4.3	32	12	20	-	-	-	-	-	-	-
METAL	MAGNESIUM	mg/kg	✓	✓	NE			41	41	100	870	18,000	-	-	-	-	-	-	-	-	-
METAL	MANGANESE	mg/kg	✓	✓	19,500			41	41	100	35	410	-	-	-	-	-	-	-	-	-
METAL	MERCURY	mg/kg	✓	✓	307			41	31	75.6	8.00E-03	5.1	0.020	0.020	-	-	-	-	-	-	-
METAL	MOLYBDENUM	mg/kg	✓		5,110			24	15	62.5	0.13	32	0.99	1.0	-	-	-	-	-	-	-
METAL	NICKEL	mg/kg	✓	✓	20,400	7	130	41	41	100	1.8	39	-	-	-	-	-	37	90	-	-
METAL	PHOSPHORUS, TOTAL (AS P)	mg/kg	✓	✓	NE			77	77	100	86	9,600	-	-	-	-	-	-	-	-	-
METAL	POTASSIUM	mg/kg	✓	✓	NE			41	41	100	770	3,900	-	-	-	-	-	-	-	-	-
METAL	SELENIUM	mg/kg	✓	✓	5,110	0.3	5	41	13	31.7	0.20	0.31	0.99	1.0	-	-	-	1	2	-	-
METAL	SILVER	mg/kg	✓	✓	5,110	2	34	41	39	95.1	0.050	0.22	0.50	0.50	-	-	-	-	-	-	-
METAL	STRONTIUM	mg/kg			100,000			23	23	100	22	460	-	-	-	-	-	-	-	-	-
METAL	THALLIUM	mg/kg	✓	✓	67.5			41	18	43.9	0.10	0.27	0.50	0.50	-	-	-	-	-	-	-
METAL	TIN	mg/kg	✓	✓	100,000			41	6	14.6	1.4	5.0	9.9	20	-	-	-	-	-	-	-
METAL	TITANIUM	mg/kg		✓	100,000			41	41	100	140	1,100	-	-	-	-	-	-	-	-	-
METAL	VANADIUM	mg/kg	✓	✓	1,020	300	6,000	41	41	100	12	54	-	-	-	-	-	-	-	-	-
METAL	ZINC	mg/kg	✓	✓	100,000	620	12,000	41	40	97.6	5.2	65	26	26	-	-	-	-	-	-	-
ORGANIC ACID	4-CHLOROBENZENESULFONIC ACID	mg/kg	✓	✓	NE			36	3	8.3	0.56	21	0.50	0.50	-	-	-	-	-	-	-
ORGANIC ACID	DIETHYL PHOSPHORODITHIOIC ACID	mg/kg		✓	NE			35	2	5.7	1.4	1.7	0.50	0.50	-	-	-	-	-	-	-
ORGANIC ACID	DIMETHYL PHOSPHORODITHIOIC ACID	mg/kg		✓	NE			36	3	8.3	6.1	32	2.5	2.5	-	-	-	-	-	-	-
ORGANIC ACID	PHTHALIC ACID	mg/kg		✓	NE			35	4	11.4	0.70	2.4	0.50	0.50	-	-	-	-	-	-	-
PCB	2,6-DICHLOROBIPHENYL	mg/kg	✓		NE			33	24	72.7	4.10E-06	7.16E-03	5.80E-07	4.70E-06	-	-	-	-	-	-	-
PCB	4,4'-DICHLOROBIPHENYL	mg/kg	✓		NE			33	30	90.9	4.70E-06	0.16	2.20E-06	3.60E-06	-	-	-	-	-	-	-
PCB	AROCLOR-1016	mg/kg	✓	✓	21.2			66	0	0	-	-	3.30E-02	1.60E+02	-	5	-	-	-	-	-
PCB	AROCLOR-1254	mg/kg	✓	✓	0.744			66	13	19.7	0.15	18	0.033	160	11	15	17	-	-	-	-
PCB	AROCLOR-1260	mg/kg	✓	✓	NE			66	4	6.1	0.055	5.2	0.033	160	-	-	-	-	-	-	-
PCB	PCB 077	mg/kg	✓	✓	NE			33	29	87.9	2.30E-06	0.099	4.40E-07	8.00E-07	-	-	-	-	-	-	-
PCB	PCB 081	mg/kg	✓	✓	NE			33	21	63.6	2.40E-06	8.02E-03	4.20E-07	3.40E-04	-	-	-	-	-	-	-
PCB	PCB 105	mg/kg	✓	✓	NE			33	28	84.8	1.82E-06	3.6	7.60E-07	9.60E-03	-	-	-	-	-	-	-
PCB	PCB 114	mg/kg	✓	✓	NE			33	29	87.9	1.58E-06	0.23	7.20E-07	1.50E-03	-	-	-	-	-	-	-
PCB	PCB 118	mg/kg	✓	✓	NE			33	30	90.9	3.24E-05	9.5	2.08E-06	3.72E-05	-	-	-	-	-	-	-
PCB	PCB 123	mg/kg	✓	✓	NE			33	27	81.8	2.82E-06	0.13	5.60E-07	1.80E-06	-	-	-	-	-	-	-
PCB	PCB 126	mg/kg	✓	✓	NE			33	27	81.8	1.24E-06	0.019	5.30E-07	2.50E-06	-	-	-	-	-	-	-
PCB	PCB 167	mg/kg	✓	✓	NE			33	30	90.9	4.30E-06	0.46	5.70E-07	2.25E-06	-	-	-	-	-	-	-
PCB	PCB 169	mg/kg	✓	✓	NE			33	9	27.3	4.00E-06	1.97E-03	5.50E-07	3.10E-03	-	-	-	-	-	-	-
PCB	PCB 189	mg/kg	✓	✓	NE			33	27	81.8	1.87E-06	0.047	5.10E-07	4.00E-06	-	-	-	-	-	-	-
PESTICIDE	2,4'-DDD	mg/kg	✓	✓	NE			46	4	8.7	0.016	0.67	5.00E-03	12	-	-	-	-	-	-	-
PESTICIDE	2,4'-DDE	mg/kg	✓	✓	NE			46	27	58.7	1.00E-03	14	5.00E-03	2.5	-	-	-	-	-	-	-
PESTICIDE	2,4'-DDT	mg/kg	✓		NE			46	19	41.3	2.70E-03	16	5.00E-03	2.5	-	-	-	-	-	-	-
PESTICIDE	4,4'-DDD	mg/kg	✓	✓	9.95	0.8	16	205	18	8.8	2.10E-03	10	3.30E-03	16	2	3	1	7	3		
PESTICIDE	4,4'-DDE	mg/kg	✓	✓	7.02	3	54	205	120	58.5	5.40E-03	130	5.00E-03	3.3	10	-	5	16	8	1	0.5
PESTICIDE	4,4'-DDT	mg/kg	✓	✓	7.02	2	32	202	80	39.6	3.30E-03	160	5.00E-03	3.3	11	-	5	20	10	6	3
PESTICIDE	ALDRIN	mg/kg	✓	✓	0.101	0.02	0.5	205	0	0	-	-	1.70E-03	12	-	30	-	-	-	-	-
PESTICIDE	ALPHA-BHC	mg/kg	✓	✓	0.359	0.00003	0.0005	228	145	63.6	1.60E-03	3,300	1.70E-03	12	49	15	21	145	64	145	64

TABLE 4-1
PREVALENCE TABLE
SITE-RELATED CHEMICALS IN SURFACE SOIL

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

GROUP	CHEMICAL	UNITS	MONTROSE SRC	STAUFFER SRC	PRG	DAF1 SOIL	DAF 20 SOIL	TOTAL ANALYSES	NUMBER DETECTS	PERCENT DETECTIONS	MINIMUM DETECTED VALUE	MAXIMUM DETECTED VALUE	MINIMUM DETECTION LIMIT	MAXIMUM DETECTION LIMIT	NUMBER DETECTS > PRG	NUMBER NDS > PRG	PERCENT DETECTIONS >PRG	NUMBER DETECTS > DAF1	PERCENT DETECTIONS >DAF1	NUMBER DETECTS > DAF20	PERCENT DETECTIONS >DAF20
PESTICIDE	BETA-BHC	mg/kg	✓	✓	1.26	0.0001	0.003	228	197	86.4	0.011	300	5.00E-03	500	127	11	56	197	86	197	86
PESTICIDE	CARBOPHENOTHION (TRITHION)	mg/kg		✓	NE			32	21	65.6	6.60E-03	6,600	5.00E-03	0.020	-	-	-	-	-	-	-
PESTICIDE	CHLORDANE	mg/kg			6.47	0.5	10	191	0	0	-	-	3.30E-02	120	-	17	-	-	-	-	-
PESTICIDE	COUMAPHOS	mg/kg			NE			13	1	7.7	5.80E-03	5.80E-03	0.040	0.80	-	-	-	-	-	-	-
PESTICIDE	DELTA-BHC	mg/kg	✓	✓	NE			228	21	9.2	3.30E-03	190	1.70E-03	1,000	-	-	-	-	-	-	-
PESTICIDE	DIELDRIN	mg/kg	✓	✓	0.108	0.0002	0.004	205	2	1	1.60E-03	0.015	3.30E-03	16	-	47	-	2	1.0	1	0.5
PESTICIDE	DIMETHOATE	mg/kg			123			13	1	7.7	0.054	0.054	0.040	0.80	-	-	-	-	-	-	-
PESTICIDE	DISULFOTON	mg/kg			24.6			13	1	7.7	0.041	0.041	0.020	0.40	-	-	-	-	-	-	-
PESTICIDE	ENDOSULFAN I	mg/kg	✓	✓	3,690	0.9	18	205	3	1.5	2.00E-03	0.71	1.70E-03	12	-	-	-	-	-	-	-
PESTICIDE	ENDOSULFAN II	mg/kg			3,690	0.9	18	205	1	0.5	0.029	0.029	3.30E-03	16	-	-	-	-	-	-	-
PESTICIDE	ENDOSULFAN SULFATE	mg/kg	✓	✓	NE			205	2	1	0.23	1.4	3.30E-03	25	-	-	-	-	-	-	-
PESTICIDE	ENDRIN	mg/kg	✓	✓	185	0.05	1	205	2	1	4.00E-03	0.025	3.30E-03	16	-	-	-	-	-	-	-
PESTICIDE	ENDRIN ALDEHYDE	mg/kg	✓	✓	NE			205	4	2	2.00E-03	3.70E-03	5.00E-03	16	-	-	-	-	-	-	-
PESTICIDE	GAMMA-BHC (LINDANE)	mg/kg	✓	✓	1.74	0.0005	0.009	228	46	20.2	1.70E-03	670	1.70E-03	200	18	11	8	46	20	44	19
PESTICIDE	HEPTACHLOR	mg/kg			0.383	1	23	205	0	0	-	-	1.70E-03	12	-	18	-	-	-	-	-
PESTICIDE	HEPTACHLOR EPOXIDE	mg/kg	✓	✓	0.189	0.03	0.7	205	0	0	-	-	1.70E-03	12	-	26	-	-	-	-	-
PESTICIDE	METHOXYCHLOR	mg/kg			3080	8	160	205	2	1	0.066	6.5	5.00E-03	85	-	-	-	-	-	-	-
PESTICIDE	METHYL CARBOPHENOTHION	mg/kg		✓	NE			32	2	6.2	0.011	1.6	5.00E-03	200	-	-	-	-	-	-	-
PESTICIDE	TOXAPHENE	mg/kg			1.57	2	31	205	0	0	-	-	0.17	850	-	121	-	-	-	-	-
SVOC	1,2,4,5-TETRACHLOROBENZENE	mg/kg	✓	✓	185			56	14	25	0.098	4.4	0.33	6.6	-	-	-	-	-	-	-
SVOC	1,2,4-TRICHLOROBENZENE	mg/kg	✓	✓	216	0.3	5	112	43	38.4	2.90E-03	21	4.20E-03	6.6	-	-	-	23	21	6	5
SVOC	2,2'-/4,4'-DICHLOROBENZIL	mg/kg	✓		NE			40	9	22.5	0.24	280	0.33	6.6	-	-	-	-	-	-	-
SVOC	2,4,5-TRICHLOROPHENOL	mg/kg	✓	✓	61,600	14	270	56	1	1.8	1.7	1.7	0.33	6.6	-	-	-	-	-	-	-
SVOC	3,3'-DICHLOROBENZIDINE	mg/kg			4	0.0003	0.007	56	0	0	-	-	0.83	17	-	9	-	-	-	-	-
SVOC	4-CHLOROBENZENETHIOL	mg/kg		✓	NE			60	14	23.3	3.4	140	0.66	130	-	-	-	-	-	-	-
SVOC	BENZO(A)ANTHRACENE	mg/kg		✓	2.11	0.08	2	56	5	8.9	0.071	0.80	0.33	6.6	-	5	-	3	5	-	-
SVOC	BENZO(A)PYRENE	mg/kg	✓	✓	0.211	0.4	8	56	7	12.5	0.047	0.68	0.33	6.6	2	49	4	2	4	-	-
SVOC	BENZO(B)FLUORANTHENE	mg/kg		✓	2.11	0.2	5	56	7	12.5	0.061	0.84	0.33	6.6	-	5	-	4	7	-	-
SVOC	BENZO(GHI)PERYLENE	mg/kg		✓	NE			56	1	1.8	0.75	0.75	0.33	6.6	-	-	-	-	-	-	-
SVOC	BENZO(K)FLUORANTHENE	mg/kg		✓	21.1	2	49	56	7	12.5	0.050	0.86	0.33	6.6	-	-	-	-	-	-	-
SVOC	BENZOIC ACID	mg/kg	✓	✓	100,000	20	400	56	5	8.9	0.31	3.3	0.83	17	-	-	-	-	-	-	-
SVOC	BENZOPHENONE	mg/kg		✓	NE			41	4	9.8	0.21	3.0	0.33	6.6	-	-	-	-	-	-	-
SVOC	BIS(2-CHLOROETHYL)ETHER	mg/kg			0.575	0.00002	0.0004	56	0	0	-	-	0.17	3.4	-	10	-	-	-	-	-
SVOC	BIS(2-ETHYLHEXYL)PHTHALATE	mg/kg	✓	✓	123			56	2	3.6	0.19	0.81	0.33	6.6	-	-	-	-	-	-	-
SVOC	BIS(4-CHLOROPHENYL)DISULFIDE	mg/kg		✓	NE			41	4	9.8	0.31	17	0.33	6.6	-	-	-	-	-	-	-
SVOC	BIS-(4-CHLOROPHENYL)METHANONE	mg/kg	✓	✓	18,500			41	8	19.5	0.33	9.8	0.33	6.6	-	-	-	-	-	-	-
SVOC	CHRYSENE	mg/kg	✓	✓	211	8	160	56	7	12.5	0.081	0.92	0.33	6.6	-	-	-	-	-	-	-
SVOC	DIBENZO(A,H)ANTHRACENE	mg/kg			0.211	0.08	2	56	0	0	-	-	0.33	8.4	-	56		-	-	-	-
SVOC	DI-N-BUTYL PHTHALATE	mg/kg	✓	✓	61,600	270	2,300	56	3	5.4	0.075	0.11	0.33	6.6	-	-	-	-	-	-	-
SVOC	DI-N-OCTYL PHTHALATE	mg/kg		✓	24,600	10,000	10,000	56	1	1.8	0.20	0.20	0.33	6.6	-	-	-	-	-	-	-
SVOC	FLUORANTHENE	mg/kg	✓	✓	22,000	210	4,300	56	8	14.3	0.10	1.4	0.33	6.6	-	-	-	-	-	-	-
SVOC	HEXACHLOROBENZENE	mg/kg	✓	✓	1.08	0.1	2	56	12	21.4	0.091	2.6	0.33	6.6	4	8	7	11	20	1	2
SVOC	INDENO(1,2,3-CD)PYRENE	mg/kg		✓	2.11	0.7	14	56	1	1.8	0.60	0.60	0.33	6.6	-	5	-	-	-	-	-
SVOC	N-NITROSODIMETHYLAMINE	mg/kg			0.0338			41	0	0	-	-	0.33	6.6	-	41	-	-	-	-	-
SVOC	N-NITROSO-DI-N-PROPYLAMINE	mg/kg			0.246	0.000002	0.00005	56	0	0	-	-	0.25	5.0	-	56	-	-	-	-	-
SVOC	PENTACHLOROBENZENE	mg/kg	✓	✓	492			56	11	19.6	0.11	2.2	0.33	6.6	-	-	-	-	-	-	-
SVOC	PENTACHLOROPHENOL	mg/kg	✓		9	0.001	0.03	56	1	1.8	0.20	0.20	0.83	17	-	3	-	1	2	1	2
SVOC	PHENANTHRENE	mg/kg		✓	NE			56	5	8.9	0.070	1.0	0.33	6.6	-	-	-	-	-	-	-
SVOC	PHENYL DISULFIDE	mg/kg		✓	NE			41	1	2.4	1.5	1.5	0.33	6.6	-	-	-	-	-	-	-
SVOC	PYRENE	mg/kg	✓	✓	29,100	210	4,200	56	6	10.7	0.089	1.3	0.33	6.6	-	-	-	-	-	-	-
SVOC	THIOPHENOL	mg/kg		✓	NE			60	4	6.7	2.4	27	0.66	130	-	-	-	-	-	-	-
TPH	DRO (C8-C24)	mg/kg	✓	✓	NE			29	23	79.3	1.9	3,100	5.0	6.5	-	-	-	-	-	-	-
TPH	EFH (C8 - C40)	mg/kg	✓	✓	NE			29	24	82.8	5.1	3,200	5.0	14	-	-	-	-	-	-	-
TPH	GASOLINE C7-C12	mg/kg	✓	✓	NE			2	1	50	0.23	0.23	0.37	0.37	-	-	-	-	-	-	-
TPH	GRO (C4 - C12)	mg/kg	✓	✓	NE			16	4	25	0.24	2.5	0.36	0.48	-	-	-	-	-	-	-
TPH	METHANOL	mg/kg		✓	100,000			13	1	7.7	0.51	0.51	1.0	1.0	-	-	-	-	-	-	-
TPH	ORO (C25-C40)	mg/kg	✓	✓	NE			29	20	69	3.6	360	5.0	1,000	-	-	-	-	-	-	-
TPH	VOLATILE FUEL HYDROCARBONS (C6-C12)	mg/kg	✓	✓	NE			12	3	25	0.15	0.87	0.36	0.44	-	-	-	-	-	-	-

TABLE 4-1
PREVALENCE TABLE
SITE-RELATED CHEMICALS IN SURFACE SOIL

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

GROUP	CHEMICAL	UNITS	MONTROSE SRC	STAUFFER SRC	PRG	DAF1 SOIL	DAF 20 SOIL	TOTAL ANALYSES	NUMBER DETECTS	PERCENT DETECTIONS	MINIMUM DETECTED VALUE	MAXIMUM DETECTED VALUE	MINIMUM DETECTION LIMIT	MAXIMUM DETECTION LIMIT	NUMBER DETECTS > PRG	NUMBER NDS > PRG	PERCENT DETECTIONS >PRG	NUMBER DETECTS > DAF1	PERCENT DETECTIONS >DAF1	NUMBER DETECTS > DAF20	PERCENT DETECTIONS >DAF20
VOC	1,1-DICHLOROETHENE	mg/kg	✓		413	0.003	0.06	56	1	1.8	1.30E-03	1.30E-03	4.20E-03	0.50	-	-	-	-	-	-	-
VOC	1,2,3-TRICHLOROBENZENE	mg/kg	✓	✓	NE			56	26	46.4	2.00E-03	6.5	4.20E-03	0.25	-	-	-	-	-	-	-
VOC	1,2,3-TRICHLOROPROPANE	mg/kg	✓		0.076			56	0	0	-	-	5.00E-03	5.0	-	14	-	-	-	-	-
VOC	1,2,4-TRIMETHYLBENZENE	mg/kg	✓	✓	170			56	2	3.6	7.50E-04	9.20E-04	1.70E-03	0.50	-	-	-	-	-	-	-
VOC	1,2-DIBROMO-3-CHLOROPROPANE	mg/kg	✓		2.02			41	1	2.4	2.20E-03	2.20E-03	4.20E-03	0.24	-	-	-	-	-	-	-
VOC	1,2-DIBROMOETHANE	mg/kg			0.073			56	0	0	-	-	1.70E-03	0.50	-	13	-	-	-	-	-
VOC	1,2-DICHLOROBENZENE	mg/kg	✓	✓	600	0.9	17	112	41	36.6	1.20E-03	40	1.70E-03	6.6	-	-	-	17	15	4	3.6
VOC	1,3,5-TRICHLOROBENZENE	mg/kg	✓	✓	NE			13	1	7.7	8.50E-03	8.50E-03	1.70E-03	0.19	-	-	-	-	-	-	-
VOC	1,3,5-TRIMETHYLBENZENE	mg/kg	✓	✓	69.7			56	1	1.8	1.10E-03	1.10E-03	1.70E-03	0.50	-	-	-	-	-	-	-
VOC	1,3-DICHLOROBENZENE	mg/kg	✓	✓	600			112	11	9.8	2.10E-03	2.3	1.70E-03	6.6	-	-	-	-	-	-	-
VOC	1,4-DICHLOROBENZENE	mg/kg	✓	✓	7.87	0.1	2	112	42	37.5	1.30E-03	59	1.70E-03	6.6	6	-	5	24	21	15	13
VOC	2-BUTANONE	mg/kg	✓		113000			41	4	9.8	6.00E-03	8.90E-03	8.40E-03	0.97	-	-	-	-	-	-	-
VOC	2-CHLOROTOLUENE	mg/kg	✓		560			56	1	1.8	6.90E-03	6.90E-03	4.20E-03	0.50	-	-	-	-	-	-	-
VOC	4-CHLOROTOLUENE	mg/kg	✓		NE			56	1	1.8	2.60E-03	2.60E-03	4.20E-03	0.50	-	-	-	-	-	-	-
VOC	ACETONE	mg/kg	✓	✓	54300	0.8	16	41	28	68.3	0.011	0.063	8.70E-03	1.5	-	-	-	-	-	-	-
VOC	BENZENE	mg/kg	✓	✓	1.41	0.002	0.03	75	37	49.3	5.00E-04	2.1	1.70E-03	0.50	1	-	1	22	29	9	12
VOC	CARBON TETRACHLORIDE	mg/kg	✓	✓	0.549	0.003	0.07	56	8	14.3	6.00E-04	0.40	4.20E-03	0.50	-	-	-	3	5	1	2
VOC	CHLOROBENZENE	mg/kg	✓	✓	530	0.07	1	75	38	50.7	6.10E-04	25	1.70E-03	0.48	-	-	-	21	28	13	17
VOC	CHLOROFORM	mg/kg	✓	✓	0.47	0.03	0.6	56	22	39.3	9.00E-04	0.068	1.70E-03	0.50	-	3	-	2	4		
VOC	DIBROMOCHLOROMETHANE	mg/kg	✓		2.55	0.02	0.4	56	0	0	-	-	1.70E-03	5.0	-	1	-	-	-	-	-
VOC	DIMETHYL DISULFIDE	mg/kg		✓	NE			31	1	3.2	1.80E-03	1.80E-03	1.70E-03	0.50	-	-	-	-	-	-	-
VOC	ETHYLBENZENE	mg/kg	✓		395	0.7	13	56	1	1.8	5.10E-04	5.10E-04	1.70E-03	0.50	-	-	-	-	-	-	-
VOC	M,P-XYLENE	mg/kg	✓	✓	420	10	210	45	3	6.7	1.20E-03	1.90E-03	1.70E-03	0.097	-	-	-	-	-	-	-
VOC	NAPHTHALENE	mg/kg	✓	✓	188	4	84	112	3	2.7	2.90E-03	0.11	4.20E-03	6.6	-	-	-	-	-	-	-
VOC	N-HEPTANE	mg/kg		✓	NE			13	1	7.7	2.30E-03	2.30E-03	1.70E-03	0.19	-	-	-	-	-	-	-
VOC	NONANAL	mg/kg		✓	NE			13	3	23.1	4.40E-03	8.90E-03	4.30E-03	0.49	-	-	-	-	-	-	-
VOC	O-XYLENE	mg/kg	✓	✓	420	10	210	45	2	4.4	5.00E-04	7.40E-04	1.70E-03	0.097	-	-	-	-	-	-	-
VOC	P-ISOPROPYL TOLUENE	mg/kg			NE			41	1	2.4	1.20E-03	1.20E-03	1.70E-03	0.097	-	-	-	-	-	-	-
VOC	TETRACHLOROETHENE	mg/kg	✓		1.31	0.003	0.06	56	5	8.9	6.20E-04	0.016	1.70E-03	0.50	-	-	-	2	4	-	-
VOC	TRICHLOROETHENE	mg/kg	✓		0.115	0.003	0.06	56	0	0	-	-	1.70E-03	0.50		11	-	-	-	-	-
VOC	TOLUENE	mg/kg	✓	✓	520	0.6	12	56	15	26.8	5.20E-04	2.30E-03	1.70E-03	0.50	-	-	-	-	-	-	-

NOTES:

Surface Soil Depth Interval: 0 to 2 feet below ground surface.

DAF1 - Dilution attenuation factor, generic for where there is no attenuation between soil and groundwater

DAF20 - Dilution attenuation factor, generic for where there is attenuation between soil and groundwater

> - greater than

mg/kg - Milligrams per kilogram

NDS = Non-detects

NE - Not established

PCB - Polychlorinated biphenyl

PRG - U.S. Environmental Protection Agency, Region IX, Preliminary Remedial Goal for Industrial Soil

S/g_{PM10} - Asbestos structures per gram of respirable dust

SRC - Site-related chemical

SVOC - Semi-volatile organic compound

TPH - Total petroleum hydrocarbons

VOC - Volatile organic compound

TABLE 4-2

PREVALENCE TABLE
SITE-RELATED CHEMICALS IN VADOSE ZONE SOIL

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

GROUP	CHEMICAL	UNITS	MONTROSE SRC	STAUFFER SRC	PRG	DAF1 SOIL	DAF20 SOIL	TOTAL ANALYSES	NUMBER DETECTS	PERCENT DETECTIONS	MINIMUM DETECTED VALUE	MAXIMUM DETECTED VALUE	MINIMUM DETECTION LIMIT	MAXIMUM DETECTION LIMIT	NUMBER DETECTS > PRG	NUMBER NDS > PRG	PERCENT DETECTIONS >PRG	NUMBER DETECTS > DAF1	PERCENT DETECTIONS >DAF1	NUMBER DETECTS > DAF20	PERCENT DETECTIONS >DAF20
ALDEHYDES	ACETALDEHYDE	mg/kg	✓		23.2			210	1	0.5	2.1	2.1	0.50	0.88	-	-	-	-	-	-	-
ALDEHYDES	CHLORAL	mg/kg	✓		NE			210	17	8.1	5.70E-03	10	0.067	1.7	-	-	-	-	-	-	-
ALDEHYDES	CHLOROACETALDEHYDE	mg/kg	✓		NE			210	2	1	0.15	0.84	1.0	1.0	-	-	-	-	-	-	-
ALDEHYDES	DICHLOROACETALDEHYDE	mg/kg	✓		NE			209	3	1.4	0.018	0.040	0.17	8.5	-	-	-	-	-	-	-
ALDEHYDES	FORMALDEHYDE	mg/kg		✓	100,000			210	40	19	0.52	13	1.0	2.0	-	-	-	-	-	-	-
ASBESTOS	LONG AMPHIBOLE PROTOCOL STRUCTURES	S/g_{PM10}		✓	NE			14	4	28.6	2,993,002	11,974,353	2,839,999	2,999,318	-	-	-	-	-	-	-
ASBESTOS	LONG ASBESTOS PROTOCOL STRUCTURES	S/g_{PM10}		✓	NE			14	7	50	2,998,288	17,921,148	2,976,383	2,999,318	-	-	-	-	-	-	-
ASBESTOS	LONG CHRYSOTILE PROTOCOL STRUCTURES	S/g_{PM10}		✓	NE			14	5	35.7	2,993,002	17,039,998	2,976,383	2,999,318	-	-	-	-	-	-	-
ASBESTOS	TOTAL AMPHIBOLE PROTOCOL STRUCTURES	S/g_{PM10}		✓	NE			14	5	35.7	2,840,000	71,846,120	2,976,383	2,999,318	-	-	-	-	-	-	-
ASBESTOS	TOTAL ASBESTOS PROTOCOL STRUCTURES	S/g_{PM10}		✓	NE			14	7	50	8,956,196	71,846,120	2,976,383	2,999,318	-	-	-	-	-	-	-
ASBESTOS	TOTAL ASBESTOS STRUCTURES	S/g_{PM10}		✓	NE			14	7	50	3.0	24	-	-	-	-	-	-	-	-	-
ASBESTOS	TOTAL CHRYSOTILE PROTOCOL STRUCTURES	S/g_{PM10}		✓	NE			14	5	35.7	8,979,005	32,855,436	2,976,383	2,999,318	-	-	-	-	-	-	-
DIOXINS/FURANS	1,2,3,4,6,7,8-HEPTACHLORINATED DIBENZO-P-DIOXIN	mg/kg		✓	NE			24	19	79.2	8.00E-07	3.01E-03	4.80E-07	3.00E-05	-	-	-	-	-	-	-
DIOXINS/FURANS	1234678-HEPTACHLORINATED DIBENZOFURAN	mg/kg		✓	NE			24	14	58.3	6.70E-07	2.18E-03	1.70E-07	2.00E-04	-	-	-	-	-	-	-
DIOXINS/FURANS	1234789-HEPTACHLORINATED DIBENZOFURAN	mg/kg		✓	NE			24	20	83.3	2.50E-07	7.30E-04	3.00E-07	5.40E-06	-	-	-	-	-	-	-
DIOXINS/FURANS	123478-HEXACHLORINATED DIBENZOFURAN	mg/kg		✓	NE			24	22	91.7	2.40E-07	1.55E-03	2.80E-07	8.50E-07	-	-	-	-	-	-	-
DIOXINS/FURANS	123478-HEXACHLORINATED DIBENZO-P-DIOXIN	mg/kg		✓	NE			24	13	54.2	4.20E-07	2.92E-04	1.00E-07	2.30E-06	-	-	-	-	-	-	-
DIOXINS/FURANS	123678-HEXACHLORINATED DIBENZOFURAN	mg/kg		✓	NE			24	20	83.3	1.60E-07	5.81E-04	2.00E-07	2.70E-06	-	-	-	-	-	-	-
DIOXINS/FURANS	123678-HEXACHLORINATED DIBENZO-P-DIOXIN	mg/kg		✓	NE			24	15	62.5	2.70E-07	5.73E-04	1.00E-07	2.80E-05	-	-	-	-	-	-	-
DIOXINS/FURANS	123789-HEXACHLORINATED DIBENZOFURAN	mg/kg		✓	NE			24	15	62.5	2.10E-07	1.33E-05	1.80E-07	5.30E-05	-	-	-	-	-	-	-
DIOXINS/FURANS	123789-HEXACHLORINATED DIBENZO-P-DIOXIN	mg/kg		✓	NE			24	15	62.5	4.07E-07	3.25E-04	1.60E-07	5.70E-06	-	-	-	-	-	-	-
DIOXINS/FURANS	12378-PENTACHLORINATED DIBENZOFURAN	mg/kg		✓	NE			24	18	75	5.30E-07	9.09E-04	1.50E-07	2.00E-04	-	-	-	-	-	-	-
DIOXINS/FURANS	12378-PENTACHLORINATED DIBENZO-P-DIOXIN	mg/kg		✓	NE			24	9	37.5	3.99E-06	1.58E-04	1.20E-07	1.20E-04	-	-	-	-	-	-	-
DIOXINS/FURANS	2,3,7,8-TCDD	mg/kg		✓	1.60E-05			24	8	33.3	6.10E-07	2.45E-05	2.00E-07	2.60E-03	2	1	8.3	-	-	-	-
DIOXINS/FURANS	234678-HEXACHLORINATED DIBENZOFURAN	mg/kg		✓	NE			24	19	79.2	1.90E-07	6.26E-04	1.20E-07	1.80E-06	-	-	-	-	-	-	-
DIOXINS/FURANS	23478-PENTACHLORINATED DIBENZOFURAN	mg/kg		✓	NE			24	19	79.2	2.30E-07	7.65E-04	2.50E-07	4.60E-04	-	-	-	-	-	-	-
DIOXINS/FURANS	2378-TETRACHLORINATED DIBENZOFURAN	mg/kg		✓	NE			23	16	69.6	4.90E-07	5.29E-03	1.60E-07	2.00E-03	-	-	-	-	-	-	-
DIOXINS/FURANS	HEPTACHLORINATED DIBENZOFURAN	mg/kg		✓	NE			14	13	92.9	1.47E-06	4.42E-03	1.30E-07	1.30E-07	-	-	-	-	-	-	-
DIOXINS/FURANS	HEPTACHLORINATED DIBENZO-P-DIOXIN	mg/kg		✓	NE			14	14	100	1.21E-06	4.82E-03	-	-	-	-	-	-	-	-	-
DIOXINS/FURANS	HEXACHLORINATED DIBENZOFURAN	mg/kg		✓	NE			14	14	100	2.30E-07	0.017	-	-	-	-	-	-	-	-	-
DIOXINS/FURANS	HEXACHLORINATED DIBENZO-P-DIOXIN	mg/kg		✓	NE			14	13	92.9	1.41E-06	3.94E-03	8.40E-07	8.40E-07	-	-	-	-	-	-	-
DIOXINS/FURANS	OCTACHLORINATED DIBENZOFURAN	mg/kg		✓	NE			24	21	87.5	7.70E-07	0.041	1.33E-06	1.10E-05	-	-	-	-	-	-	-
DIOXINS/FURANS	OCTACHLORINATED DIBENZO-P-DIOXIN	mg/kg		✓	NE			24	20	83.3	2.13E-06	7.26E-03	2.29E-06	3.70E-05	-	-	-	-	-	-	-
DIOXINS/FURANS	PENTACHLORINATED DIBENZOFURAN	mg/kg		✓	NE			14	14	100	1.16E-06	0.050	-	-	-	-	-	-	-	-	-
DIOXINS/FURANS	PENTACHLORINATED DIBENZO-P-DIOXIN	mg/kg		✓	NE			14	12	85.7	6.27E-06	2.52E-03	2.50E-07	2.80E-07	-	-	-	-	-	-	-
DIOXINS/FURANS	TETRACHLORINATED DIBENZOFURAN	mg/kg		✓	NE			14	14	100	1.35E-06	0.11	-	-	-	-	-	-	-	-	-
DIOXINS/FURANS	TETRACHLORINATED DIBENZO-P-DIOXIN	mg/kg		✓	NE			14	12	85.7	1.25E-06	6.75E-04	2.90E-07	4.00E-07	-	-	-	-	-	-	-
GENERAL CHEMICAL	TOTAL INORGANIC CARBON	mg/kg			NE			55	49	89.1	3,460	30,400	2,000	2,000	-	-	-	-	-	-	-
GENERAL CHEMICAL	TOTAL ORGANIC CARBON	mg/Kg			NE			56	30	53.6	530	44,900	1,000	1,000	-	-	-	-	-	-	-
INDICATOR CHEMICAL	ALKALINITY AS CACO3	mg/kg			NE			152	151	99.3	200	56,000	100	100	-	-	-	-	-	-	-
INDICATOR CHEMICAL	ALKALINITY, BICARBONATE (AS CACO3)	mg/kg			NE			152	151	99.3	150	55,000	100	100	-	-	-	-	-	-	-
INDICATOR CHEMICAL	ALKALINITY, CARBONATE (AS CACO3)	mg/kg			NE			152	127	83.6	100	38,000	100	100	-	-	-	-	-	-	-
INDICATOR CHEMICAL	AMMONIA	mg/kg	✓	✓	NE			161	44	27.3	0.70	4.4	0.50	5.0	-	-	-	-	-	-	-
INDICATOR CHEMICAL	CHLORIDE	mg/kg	✓		NE			263	254	96.6	1.5	14,000	5.0	97	-	-	-	-	-	-	-
INDICATOR CHEMICAL	IRON	mg/kg	✓	✓	100,000			208	208	100	3,000	33,000	-	-	-	-	-	-	-	-	-
INDICATOR CHEMICAL	PH	pH Units	✓		NE			278	278	100	2.9	13	-	-	-	-	-	-	-	-	-
INDICATOR CHEMICAL	SODIUM	mg/kg	✓	✓	NE			207	207	100	230	37,000	-	-	-	-	-	-	-	-	-
INDICATOR CHEMICAL	SULFATE	mg/kg	✓		NE			216	214	99.1	12	16,000	5.0	5.0	-	-	-	-	-	-	-
INDICATOR CHEMICAL	SULFUR	mg/KG	✓		NE			107	106	99.1	92	16,200	50	50	-	-	-	-	-	-	-
INORGANIC	FLUORIDE	mg/kg	✓		36,900			106	87	82.1	1.5	18	5.0	5.0	-	-	-	-	-	-	-
INORGANIC	IODIDE	mg/kg		✓	NE			55	36	65.5	6.50E-03	75	0.10	0.50	-	-	-	-	-	-	-
INORGANIC	NITRATE	mg/kg		✓	NE			161	96	59.6	0.60	29	1.1	5.5	-	-	-	-	-	-	-
INORGANIC	ORTHOPHOSPHATE	mg/kg			NE			105	5	4.8	1.3	6.1	1.6	16	-	-	-	-	-	-	-
INORGANIC	TOTAL CARBON	mg/kg			NE			56	54	96.4	1,850	70,900	1,000	1,000	-	-	-	-	-	-	-
METAL	ALUMINUM	mg/kg	✓	✓	100,000			208	208	100	770	24,000	-	-	-	-	-	-	-	-	-
METAL	ANTIMONY	mg/kg	✓	✓	409	0.3	5	207	10	4.8	0.058	56	0.98	5.0	-		-	8	4	2	1
METAL	ARSENIC	mg/kg	✓	✓	1.59	1	29	207	206	99.5	0.35	25	2.5	2.5	193	1	93.2	204	99	-	-
METAL	BARIUM	mg/kg	✓		66,600	82	1,600	207	207	100	16	390	-	-	-	-	-	171	83	-	-
METAL	BERYLLIUM	mg/kg	✓	✓	1,940	3	63	207	203	98.1	0.12	1.1	0.30	0.30	-	-	-	-	-	-	-
METAL	BORON	mg/kg			100,000			208	105	50.5	1.5	35	5.0	25	-	-	-	-	-	-	-
METAL	BROMIDE	mg/kg			NE			105	3	2.9	4.3	6.4	5.0	25	-	-	-	-	-	-	-
METAL	CADMIUM	mg/kg	✓	✓	451	0.4	8	207	158	76.3	0.026	0.94	0.49	2.5	-	-	-	4	2	-	-
METAL	CALCIUM	mg/kg	✓	✓	NE			207	207	100	460	150,000	-	-	-	-	-	-	-	-	-

TABLE 4-2

PREVALENCE TABLE
SITE-RELATED CHEMICALS IN VADOSE ZONE SOIL

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

GROUP	CHEMICAL	UNITS	MONTROSE SRC	STAUFFER SRC	PRG	DAF1 SOIL	DAF20 SOIL	TOTAL ANALYSES	NUMBER DETECTS	PERCENT DETECTIONS	MINIMUM DETECTED VALUE	MAXIMUM DETECTED VALUE	MINIMUM DETECTION LIMIT	MAXIMUM DETECTION LIMIT	NUMBER DETECTS > PRG	NUMBER NDS > PRG	PERCENT DETECTIONS >PRG	NUMBER DETECTS > DAF1	PERCENT DETECTIONS >DAF1	NUMBER DETECTS > DAF20	PERCENT DETECTIONS >DAF20
METAL	CHROMIUM	mg/kg	✓	✓	448	2	38	207	207	100	3.5	46	-	-	-	-	-	207	100	1	0.5
METAL	COBALT	mg/kg	✓	✓	1,920			207	207	100	0.60	8.8	-	-	-	-	-	-	-	-	-
METAL	COPPER	mg/kg	✓	✓	40,900			207	206	99.5	3.3	65	0.99	0.99	-	-	-	-	-	-	-
METAL	CYANIDE	mg/kg	✓	✓	12,300			160	6	3.8	0.48	1.6	0.50	0.50	-	-	-	-	-	-	-
METAL	HEXAVALENT CHROMIUM	mg/kg	✓	✓	64	2	38	163	27	16.6	0.021	1.4	0.20	0.20	-	-	-	-	-	-	-
METAL	LEAD	mg/kg	✓	✓	800			207	207	100	2.4	300	-	-	-	-	-	-	-	-	-
METAL	LITHIUM	mg/kg			20,400			151	128	84.8	3.9	73	6.2	25	-	-	-	-	-	-	-
METAL	MAGNESIUM	mg/kg	✓	✓	NE			207	207	100	170	31,000	-	-	-	-	-	-	-	-	-
METAL	MANGANESE	mg/kg	✓	✓	19,500			207	207	100	21	1,000	-	-	-	-	-	-	-	-	-
METAL	MERCURY	mg/kg	✓	✓	307			212	119	56.1	8.00E-03	40	0.020	0.020	-	-	-	-	-	-	-
METAL	MOLYBDENUM	mg/kg	✓		5,110			154	64	41.6	0.13	32	0.98	5.0	-	-	-	-	-	-	-
METAL	NICKEL	mg/kg	✓	✓	20,400	7	130	207	207	100	1.8	39	-	-	-	-	-	184	89	-	-
METAL	PHOSPHORUS (WHITE)	mg/kg	✓	✓	20.4			107	1	0.9	6.90E-05	6.90E-05	5.00E-04	5.00E-04	-	-	-	-	-	-	-
METAL	PHOSPHORUS, TOTAL (AS P)	mg/kg	✓	✓	NE			419	419	100	44	63,000,000	-	-	-	-	-	-	-	-	-
METAL	POTASSIUM	mg/kg	✓	✓	NE			207	207	100	510	5,200	-	-	-	-	-	-	-	-	-
METAL	SELENIUM	mg/kg	✓	✓	5,110	0.3	5	207	38	18.4	0.20	0.31	0.98	5.0	-	-	-	1	0.5	-	-
METAL	SILVER	mg/kg	✓	✓	5,110	2	34	207	189	91.3	0.050	0.96	0.50	2.5	-	-	-	-	-	-	-
METAL	STRONTIUM	mg/kg			100,000			151	151	100	22	2,700	-	-	-	-	-	-	-	-	-
METAL	THALLIUM	mg/kg	✓	✓	67.5			207	99	47.8	0.10	0.79	0.49	2.5	-	-	-	-	-	-	-
METAL	TIN	mg/kg	✓	✓	100,000			207	28	13.5	1.4	6.7	9.9	50	-	-	-	-	-	-	-
METAL	TITANIUM	mg/kg		✓	100,000			207	207	100	140	1,800	-	-	-	-	-	-	-	-	-
METAL	VANADIUM	mg/kg	✓	✓	1,020	300	6,000	207	207	100	9.4	110	-	-	-	-	-	-	-	-	-
METAL	ZINC	mg/kg	✓	✓	100,000	620	12,000	207	199	96.1	3.2	65	19	29	-	-	-	-	-	-	-
ORGANIC ACID	4-CHLOROBENZENESULFONIC ACID	mg/kg	✓	✓	NE			209	9	4.3	0.56	200	0.50	0.50	-	-	-	-	-	-	-
ORGANIC ACID	BENZENESULFONIC ACID	mg/kg		✓	NE			205	8	3.9	0.60	10	0.50	2.0	-	-	-	-	-	-	-
ORGANIC ACID	DIETHYL PHOSPHORODITHIOIC ACID	mg/kg		✓	NE			206	12	5.8	0.53	140	0.50	0.50	-	-	-	-	-	-	-
ORGANIC ACID	DIMETHYL PHOSPHORODITHIOIC ACID	mg/kg		✓	NE			209	15	7.2	3.0	38	2.5	40	-	-	-	-	-	-	-
ORGANIC ACID	PHTHALIC ACID	mg/kg		✓	NE			205	13	6.3	0.57	56	0.50	0.50	-	-	-	-	-	-	-
PCB	2,3-DICB-(5)	mg/kg	✓		NE			199	90	45.2	2.90E-06	0.63	8.60E-07	2.30E-05	-	-	-	-	-	-	-
PCB	2,3'-DICB-(6)	mg/kg	✓		NE			199	130	65.3	1.44E-06	1.1	1.10E-06	1.00E-05	-	-	-	-	-	-	-
PCB	2,4-DICB-(7)	mg/kg	✓		NE			199	75	37.7	7.50E-06	0.070	8.10E-07	2.10E-05	-	-	-	-	-	-	-
PCB	2,4'-DICB-(8)	mg/kg	✓		NE			199	137	68.8	2.11E-06	0.95	1.00E-06	1.97E-05	-	-	-	-	-	-	-
PCB	2,5-DICB-(9)	mg/kg	✓		NE			199	118	59.3	1.70E-06	1.8	8.20E-07	9.40E-06	-	-	-	-	-	-	-
PCB	2,6-DICHLOROBIPHENYL	mg/kg	✓		NE			199	78	39.2	1.17E-06	0.048	3.20E-07	1.20E-05	-	-	-	-	-	-	-
PCB	22'-DICB-(4)	mg/kg	✓		NE			199	121	60.8	1.70E-06	0.78	4.10E-07	1.05E-05	-	-	-	-	-	-	-
PCB	3,3'-DICB-(11)	mg/kg	✓		NE			199	122	61.3	2.56E-06	0.28	1.10E-06	6.70E-03	-	-	-	-	-	-	-
PCB	3,5-DICB-(14)	mg/kg	✓		NE			199	66	33.2	3.00E-06	0.077	4.50E-07	2.50E-05	-	-	-	-	-	-	-
PCB	4,4'-DICHLOROBIPHENYL	mg/kg	✓		NE			199	100	50.3	2.30E-06	0.16	9.80E-07	1.20E-05	-	-	-	-	-	-	-
PCB	AROCHLOR-1016	mg/kg	✓	✓	21.2			285	0	0	-	-	0.030	3,300	-	17	-	-	-	-	-
PCB	AROCLOR-1254	mg/kg	✓	✓	0.744			285	12	4.2	0.026	13	0.050	3,300	7	54	2.5	-	-	-	-
PCB	AROCLOR-1260	mg/kg	✓	✓	NE			285	3	1.1	0.055	5.2	0.050	3,300	-	-	-	-	-	-	-
PCB	DICB-(12)+(13)	mg/kg	✓		NE			199	115	57.8	2.50E-06	1.1	8.50E-07	1.00E-05	-	-	-	-	-	-	-
PCB	PCB 077	mg/kg	✓	✓	NE			199	94	47.2	2.60E-07	0.099	1.60E-07	8.60E-06	-	-	-	-	-	-	-
PCB	PCB 081	mg/kg	✓	✓	NE			199	67	33.7	8.80E-07	0.075	1.70E-07	3.40E-04	-	-	-	-	-	-	-
PCB	PCB 105	mg/kg	✓	✓	NE			199	86	43.2	6.10E-07	3.6	5.00E-07	0.042	-	-	-	-	-	-	-
PCB	PCB 114	mg/kg	✓	✓	NE			199	93	46.7	1.10E-06	0.24	2.40E-07	1.50E-03	-	-	-	-	-	-	-
PCB	PCB 118	mg/kg	✓	✓	NE			199	117	58.8	1.14E-06	9.5	1.30E-06	6.56E-05	-	-	-	-	-	-	-
PCB	PCB 123	mg/kg	✓	✓	NE			199	75	37.7	8.30E-07	0.13	2.40E-07	3.20E-06	-	-	-	-	-	-	-
PCB	PCB 126	mg/kg	✓	✓	NE			199	65	32.7	1.24E-06	0.019	1.60E-07	1.20E-04	-	-	-	-	-	-	-
PCB	PCB 156+157	mg/kg	✓		NE			199	115	57.8	5.20E-07	1.6	6.30E-07	1.25E-05	-	-	-	-	-	-	-
PCB	PCB 167	mg/kg	✓	✓	NE			199	102	51.3	4.00E-07	0.46	3.00E-07	1.48E-04	-	-	-	-	-	-	-
PCB	PCB 169	mg/kg	✓	✓	NE			199	22	11.1	8.10E-07	1.97E-03	2.10E-07	3.10E-03	-	-	-	-	-	-	-
PCB	PCB 189	mg/kg	✓	✓	NE			199	79	39.7	2.50E-07	0.047	2.20E-07	6.70E-05	-	-	-	-	-	-	-
PESTICIDE	2,4'-DDD	mg/kg	✓	✓	NE			305	22	7.2	1.80E-03	1.1	5.00E-03	100	-	-	-	-	-	-	-
PESTICIDE	2,4'-DDE	mg/kg	✓	✓	NE			305	86	28.2	1.00E-03	40	5.00E-03	2.5	-	-	-	-	-	-	-
PESTICIDE	2,4'-DDT	mg/kg	✓		NE			305	64	21	1.60E-03	24	5.00E-03	2.5	-	-	-	-	-	-	-
PESTICIDE	4,4'-DDD	mg/kg	✓	✓	9.95	0.8	16	371	53	14.3	1.50E-03	110	5.00E-03	330	2	10	0.5	18	5	1	0.3
PESTICIDE	4,4'-DDE	mg/kg	✓	✓	7.02	3	54	371	132	35.6	1.50E-03	170	5.00E-03	330	23	4	6.2	32	9	3	1
PESTICIDE	4,4'-DDT	mg/kg	✓	✓	7.02	2	32	371	132	35.6	3.50E-03	1,300	5.00E-03	330	29	5	7.8	47	13	16	4.3
PESTICIDE	ALDRIN	mg/kg	✓	✓	0.101	0.02	0.5	371	2	0.5	2.00E-03	0.021	3.40E-03	170	-	69	-	1	0.3	-	-
PESTICIDE	ALPHA-BHC	mg/kg	✓	✓	0.359	0.00003	0.0005	387	132	34.1	1.60E-03	9,300	1.70E-03	170	52	35	13.4	132	34	132	34.1
PESTICIDE	BETA-BHC	mg/kg	✓	✓	1.26	0.0001	0.003	387	108	27.9	3.60E-03	330	1.70E-03	5,000	36	29	9.3	108	28	108	27.9
PESTICIDE	CARBOPHENOTHION (TRITHION)	mg/kg		✓	NE			70	23	32.9	0.012	6,600	5.00E-03	0.40	-	-	-	-	-	-	-
PESTICIDE	CHLORDANE	mg/kg			6.47	0.5	10	313	1	0.3	0.087	0.087	0.050	250	-	21	-	-	-	-	-

TABLE 4-2

PREVALENCE TABLE
SITE-RELATED CHEMICALS IN VADOSE ZONE SOIL

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

GROUP	CHEMICAL	UNITS	MONTROSE SRC	STAUFFER SRC	PRG	DAF1 SOIL	DAF20 SOIL	TOTAL ANALYSES	NUMBER DETECTS	PERCENT DETECTIONS	MINIMUM DETECTED VALUE	MAXIMUM DETECTED VALUE	MINIMUM DETECTION LIMIT	MAXIMUM DETECTION LIMIT	NUMBER DETECTS > PRG	NUMBER NDS > PRG	PERCENT DETECTIONS >PRG	NUMBER DETECTS > DAF1	PERCENT DETECTIONS >DAF1	NUMBER DETECTS > DAF20	PERCENT DETECTIONS >DAF20
PESTICIDE	COUMAPHOS	mg/kg			NE			56	3	5.4	5.80E-03	0.15	0.040	4.0	-	-	-	-	-	-	-
PESTICIDE	DELTA-BHC	mg/kg	✓	✓	NE			387	33	8.5	1.80E-03	8,900	1.70E-03	1,000	-	-	-	-	-	-	-
PESTICIDE	DEMETON	mg/kg			24.6			56	1	1.8	0.17	0.17	0.020	2.0	-	-	-	-	-	-	-
PESTICIDE	DIELDRIN	mg/kg	✓	✓	0.108	0.0002	0.004	371	18	4.9	1.60E-03	3.0	5.00E-03	330	4	70	1.1	18	5	14	3.8
PESTICIDE	DIMETHOATE	mg/kg			123			56	5	8.9	7.50E-03	1.8	0.040	4.0	-	-	-	-	-	-	-
PESTICIDE	DISULFOTON	mg/kg			24.6			56	1	1.8	0.041	0.041	0.020	2.0	-	-	-	-	-	-	-
PESTICIDE	ENDOSULFAN I	mg/kg	✓	✓	3,690	0.9	18	371	20	5.4	1.60E-03	3.4	3.40E-03	170	-	-	-	1	0.3	-	-
PESTICIDE	ENDOSULFAN II	mg/kg			3,690	0.9	18	371	5	1.3	4.30E-03	0.19	5.00E-03	330	-	-	-	-	-	-	-
PESTICIDE	ENDOSULFAN SULFATE	mg/kg	✓	✓	NE			371	7	1.9	2.30E-03	1.4	6.60E-03	330	-	-	-	-	-	-	-
PESTICIDE	ENDRIN	mg/kg	✓	✓	185	0.05	1	371	6	1.6	3.40E-03	0.47	5.00E-03	330	-	2	-	1	0.3		
PESTICIDE	ENDRIN ALDEHYDE	mg/kg	✓	✓	NE			363	47	12.9	1.50E-03	0.50	5.00E-03	330	-	-	-	-	-	-	-
PESTICIDE	ENDRIN KETONE	mg/kg			NE			305	6	2	2.20E-03	0.023	5.00E-03	25	-	-	-	-	-	-	-
PESTICIDE	ETHION	mg/kg			308			56	1	1.8	0.18	0.18	0.020	2.0	-	-	-	-	-	-	-
PESTICIDE	FENSULFOTHION	mg/kg			NE			56	1	1.8	0.34	0.34	0.020	2.0	-	-	-	-	-	-	-
PESTICIDE	FENTHION	mg/kg			NE			56	1	1.8	0.047	0.047	0.020	2.0	-	-	-	-	-	-	-
PESTICIDE	GAMMA-BHC (LINDANE)	mg/kg	✓	✓	1.74	0.0005	0.009	387	96	24.8	1.50E-03	22,000	1.70E-03	200	20	26	5.2	96	25	75	19.4
PESTICIDE	HEPTACHLOR	mg/kg			0.383	1	23	371	4	1.1	2.10E-03	0.11	3.40E-03	170	-	51	-	-	-	-	-
PESTICIDE	HEPTACHLOR EPOXIDE	mg/kg	✓	✓	0.189	0.03	0.7	371	3	0.8	3.20E-03	0.20	3.40E-03	170	1	62	0.3	1	0.3	-	-
PESTICIDE	MERPHOS	mg/kg			18.5			56	3	5.4	0.33	1.3	0.020	2.0	-	-	-	-	-	-	-
PESTICIDE	METHOXYCHLOR	mg/kg			3,080	8	160	371	9	2.4	3.20E-03	6.5	5.00E-03	1,700	-	-	-	-	-	-	-
PESTICIDE	METHYL CARBOPHENOTHION	mg/kg		✓	NE			70	5	7.1	0.011	11	5.00E-03	200	-	-	-	-	-	-	-
PESTICIDE	METHYL PARATHION	mg/kg			153			56	1	1.8	0.23	0.23	0.020	2.0	-	-	-	-	-	-	-
PESTICIDE	NALED	mg/kg			1,230			56	2	3.6	0.48	2.8	0.040	4.0	-	-	-	-	-	-	-
PESTICIDE	O,O,O-TRIETHYLPHOSPHOROTHIOATE	mg/kg			NE			56	2	3.6	0.51	2.2	0.020	2.0	-	-	-	-	-	-	-
PESTICIDE	PHOSMET	mg/kg		✓	12,300			70	2	2.9	0.32	0.37	5.00E-03	200	-	-	-	-	-	-	-
PESTICIDE	TETRACHLORVINPHOS	mg/kg			71.8			56	1	1.8	0.40	0.40	0.040	4.0	-	-	-	-	-	-	-
PESTICIDE	TOKUTHION	mg/kg			NE			56	1	1.8	0.12	0.12	0.020	2.0	-	-	-	-	-	-	-
PESTICIDE	TOXAPHENE	mg/kg			1.57	2	31	371	0	0	-	-	0.20	17,000	-	121	-	-	-	-	-
SVOC	1,2,4,5-TETRACHLOROBENZENE	mg/kg	✓	✓	185			334	70	21	0.059	92	0.33	200	-	1	-	-	-	-	-
SVOC	1,2,4-TRICHLOROBENZENE	mg/kg	✓	✓	216	0.3	5	751	252	33.6	5.10E-04	3,800	4.00E-03	620	6	6	0.8	143	19	68	9
SVOC	1,4-DIOXANE	mg/kg			157			203	6	3	0.016	0.14	0.025	0.62	-	-	-	-	-	-	-
SVOC	2,2'-/4,4'-DICHLOROBENZIL	mg/kg	✓		NE			277	37	13.4	0.085	300	0.33	66	-	-	-	-	-	-	-
SVOC	2,4,5-TRICHLOROPHENOL	mg/kg	✓	✓	61,600	14	270	334	2	0.6	0.22	1.7	0.33	200	-	-	-	-	-	-	-
SVOC	2,4,6-TRICHLOROPHENOL	mg/kg	✓	✓	61.6	0.008	0.2	342	15	4.4	0.094	9.0	0.33	200	-	4	-	15	4	10	2.9
SVOC	2,4-DICHLOROPHENOL	mg/kg	✓	✓	1,850	0.05	1	342	20	5.8	0.061	1.9	0.33	200	-	-	-	20	6	3	1
SVOC	2-CHLOROPHENOL	mg/kg	✓	✓	236	0.2	4	342	29	8.5	0.15	3.7	0.33	200	-	-	-	22	6	-	-
SVOC	3,3'-DICHLOROBENZIDINE	mg/kg			3.83	0.0003	0.007	342	0	0	-	-	0.83	960	-	40	-	-	-	-	-
SVOC	3-NITROANILINE	mg/kg			82.1			334	0	0	-	-	0.33	960	-	3	-	-	-	-	-
SVOC	4,6-DINITRO-2-METHYLPHENOL	mg/kg			61.6			342	0	0	-	-	0.42	960	-	6	-	-	-	-	-
SVOC	4-CHLOROBENZENETHIOL	mg/kg		✓	NE			299	13	4.3	3.4	140	0.66	1,300	-	-	-	-	-	-	-
SVOC	4-CHLOROPHENYL METHYL SULFONE	mg/kg		✓	NE			278	5	1.8	0.11	2.9	0.33	66	-	-	-	-	-	-	-
SVOC	4-CHLOROPHENYL SULFONE	mg/kg		✓	5,110			278	21	7.6	0.088	1,300	0.33	66	-	-	-	-	-	-	-
SVOC	4-NITROANILINE	mg/kg			82			334	0	0	-	-	0.83	960	-	7	-	-	-	-	-
SVOC	AZOBENZENE	mg/kg			16			278	0	0	-	-	0.33	66	-	6	-	-	-	-	-
SVOC	BENZO(A)ANTHRACENE	mg/kg		✓	2.11	0.08	2	342	7	2	0.060	0.80	0.33	200	-	25	-	4	1	-	-
SVOC	BENZO(A)PYRENE	mg/kg	✓	✓	0.211	0.4	8	342	9	2.6	0.047	0.68	0.33	200	2	333	0.6	2	1	-	-
SVOC	BENZO(B)FLUORANTHENE	mg/kg		✓	2.11	0.2	5	342	9	2.6	0.061	0.84	0.33	200	-	26	-	4	1	-	-
SVOC	BENZO(GHI)PERYLENE	mg/kg		✓	NE			342	1	0.3	0.75	0.75	0.33	200	-	-	-	-	-	-	-
SVOC	BENZO(K)FLUORANTHENE	mg/kg		✓	21.1	2	49	342	9	2.6	0.050	0.86	0.33	200	-	7	-	-	-	-	-
SVOC	BENZOIC ACID	mg/kg	✓	✓	100,000	20	400	334	38	11.4	0.24	18	0.83	960	-	-	-	-	-	-	-
SVOC	BENZOPHENONE	mg/kg		✓	NE			278	18	6.5	0.076	3.0	0.33	66	-	-	-	-	-	-	-
SVOC	BENZYL ALCOHOL	mg/kg			100,000			334	2	0.6	0.10	0.19	0.33	200	-	-	-	-	-	-	-
SVOC	BIS(2-CHLOROETHYL)ETHER	mg/kg			0.575	0.00002	0.0004	342	0	0	-	-	0.17	200	-	55	-	-	-	-	-
SVOC	BIS(2-CHLOROISOPROPYL)ETHER	mg/kg			7.35			342	0	0	-	-	0.33	200	-	10	-	-	-	-	-
SVOC	BIS(2-ETHYLHEXYL)PHTHALATE	mg/kg	✓	✓	123			342	5	1.5	0.14	1.1	0.33	200	-	1	-	-	-	-	-
SVOC	BIS(4-CHLOROPHENYL)DISULFIDE	mg/kg		✓	NE			278	13	4.7	0.28	6,000	0.33	66	-	-	-	-	-	-	-
SVOC	BIS-(4-CHLOROPHENYL)METHANONE	mg/kg	✓	✓	18,500			278	33	11.9	0.088	44	0.33	66	-	-	-	-	-	-	-
SVOC	BUTYL BENZYL PHTHALATE	mg/kg			100,000	810	930	342	2	0.6	0.10	0.15	0.33	200	-	-	-	-	-	-	-
SVOC	CHRYSENE	mg/kg	✓	✓	211	8	160	342	10	2.9	0.053	0.92	0.33	200	-	-	-	-	-	-	-
SVOC	DIETHYL PHTHALATE	mg/kg		✓	100,000			342	1	0.3	0.12	0.12	0.33	200	-	-	-	-	-	-	-
SVOC	DIMETHYL PHTHALATE	mg/kg			100,000			342	1	0.3	7.2	7.2	0.33	200	-	-	-	-	-	-	-
SVOC	DI-N-BUTYL PHTHALATE	mg/kg	✓	✓	61,600	270	2,300	342	23	6.7	0.066	0.77	0.33	200	-	-	-	-	-	-	-
SVOC	DI-N-OCTYL PHTHALATE	mg/kg		✓	24,600	10,000	10,000	342	1	0.3	0.20	0.20	0.33	200	-	-	-	-	-	-	-
SVOC	DIBENZO(A,H)ANTHRACENE	mg/kg			0.211	0.08	2	342	0	0	-	-	0.33	200	-	342	-	-	-	-	-

TABLE 4-2

PREVALENCE TABLE
SITE-RELATED CHEMICALS IN VADOSE ZONE SOIL

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

GROUP	CHEMICAL	UNITS	MONTROSE SRC	STAUFFER SRC	PRG	DAF1 SOIL	DAF20 SOIL	TOTAL ANALYSES	NUMBER DETECTS	PERCENT DETECTIONS	MINIMUM DETECTED VALUE	MAXIMUM DETECTED VALUE	MINIMUM DETECTION LIMIT	MAXIMUM DETECTION LIMIT	NUMBER DETECTS > PRG	NUMBER NDS > PRG	PERCENT DETECTIONS >PRG	NUMBER DETECTS > DAF1	PERCENT DETECTIONS >DAF1	NUMBER DETECTS > DAF20	PERCENT DETECTIONS >DAF20
SVOC	DIPHENYL SULFONE	mg/kg		✓	1,850			278	4	1.4	2.0	250	6.6	1,300	-	-	-	-	-	-	-
SVOC	FLUORANTHENE	mg/kg	✓	✓	22,000	210	4,300	342	11	3.2	0.082	1.4	0.33	200	-	-	-	-	-	-	-
SVOC	HEXACHLOROBENZENE	mg/kg	✓	✓	1.08	0.1	2	342	31	9.1	0.091	7.0	0.33	200	10	41	2.9	29	8	4	1.2
SVOC	HEXACHLOROETHANE	mg/kg		✓	123	0.02	0.5	342	6	1.8	0.070	2.6	0.33	200	-	1	-	6	2	2	1
SVOC	INDENO(1,2,3-CD)PYRENE	mg/kg		✓	2.11	0.7	14	342	1	0.3	0.60	0.60	0.33	200	-	26	-	-	-	-	-
SVOC	NITROBENZENE	mg/kg			103	0.007	0.1	342	0	0	-	-	0.33	200	-	1	-	-	-	-	-
SVOC	N-NITROSODIMETHYLAMINE	mg/kg			0.0338			278	0	0	-	-	0.33	66	-	278	-	-	-	-	-
SVOC	N-NITROSO-DI-N-PROPYLAMINE	mg/kg			0.246	0.000002	0.00005	342	0	0	-	-	0.25	200	-	342	-	-	-	-	-
SVOC	P-CHLOROTHIOANISOLE	mg/kg		✓	NE			299	9	3	0.15	44	0.33	66	-	-	-	-	-	-	-
SVOC	PENTACHLOROBENZENE	mg/kg	✓	✓	492			334	37	11.1	0.087	12	0.33	200	-	-	-	-	-	-	-
SVOC	PENTACHLOROPHENOL	mg/kg	✓		9	0.001	0.03	342	3	0.9	0.20	4.2	0.83	960	-	19	-	3	1	3	1
SVOC	PHENANTHRENE	mg/kg		✓	NE			342	8	2.3	0.070	1.0	0.33	200	-	-	-	-	-	-	-
SVOC	PHENOL	mg/kg	✓	✓	100,000	5	100	342	37	10.8	0.044	36	0.33	200	-	-	-	2	1	-	-
SVOC	PHENYL DISULFIDE	mg/kg		✓	NE			278	9	3.2	0.37	590	0.33	66	-	-	-	-	-	-	-
SVOC	PHENYL SULFIDE	mg/kg		✓	NE			278	6	2.2	0.26	4.8	0.33	66	-	-	-	-	-	-	-
SVOC	PYRENE	mg/kg	✓	✓	29,100	210	4,200	342	9	2.6	0.089	1.3	0.33	200	-	-	-	-	-	-	-
SVOC	THIOPHENOL	mg/kg		✓	NE			299	6	2	1.8	14	0.66	1,300	-	-	-	-	-	-	-
TPH	DRO (C8-C24)	mg/kg	✓	✓	NE			163	85	52.1	1.8	7,000	5.0	10	-	-	-	-	-	-	-
TPH	EFH (C8 - C40)	mg/kg	✓	✓	NE			163	93	57.1	1.8	7,200	5.0	17	-	-	-	-	-	-	-
TPH	GASOLINE C7-C12	mg/kg	✓	✓	NE			5	1	20	0.23	0.23	0.37	0.40	-	-	-	-	-	-	-
TPH	GRO (C4 - C12)	mg/kg	✓	✓	NE			107	42	39.3	0.15	12,000	0.34	19	-	-	-	-	-	-	-
TPH	METHANOL	mg/kg		✓	100,000			55	3	5.5	0.51	1.9	1.0	1.0	-	-	-	-	-	-	-
TPH	ORO (C25-C40)	mg/kg	✓	✓	NE			163	39	23.9	2.1	4,500	5.0	1,000	-	-	-	-	-	-	-
TPH	VOLATILE FUEL HYDROCARBONS (C6-C12)	mg/kg	✓	✓	NE			52	17	32.7	0.15	2,200	0.33	20	-	-	-	-	-	-	-
VOC	1,1,1,2-TETRACHLOROETHANE	mg/kg	✓		7.28			409	2	0.5	6.30E-03	14	3.70E-03	620	1	49	0.2	-	-	-	-
VOC	1,1,2,2-TETRACHLOROETHANE	mg/kg	✓		0.929	0.0002	0.003	417	0	0	-	-	1.50E-03	620	-	75	-	-	-	-	-
VOC	1,1,2-TRICHLOROETHANE	mg/kg	✓		1.61	0.0009	0.02	417	2	0.5	1.00E-03	2.50E-03	1.50E-03	620	-	68	-	2	0.5		
VOC	1,1-DICHLOROETHANE	mg/kg	✓		1,740	1	23	417	3	0.7	8.20E-04	0.014	1.50E-03	620	-	-	-	-	-	-	-
VOC	1,1-DICHLOROETHENE	mg/kg	✓		413	0.003	0.06	417	4	1	5.70E-04	1.30E-03	3.70E-03	620	-	6	-	-	-	-	-
VOC	1,1-DICHLOROPROPENE	mg/kg	✓		NE			409	1	0.2	4.00E-04	4.00E-04	1.50E-03	620	-	-	-	-	-	-	-
VOC	1,2,3-TRICHLOROBENZENE	mg/kg	✓	✓	NE			409	94	23	1.10E-03	40	3.70E-03	620	-	-	-	-	-	-	-
VOC	1,2,3-TRICHLOROPROPANE	mg/kg	✓		0.076			409	0	0	-	-	5.00E-03	850	-	173	-	-	-	-	-
VOC	1,2,4-TRIMETHYLBENZENE	mg/kg	✓	✓	170			409	5	1.2	7.50E-04	0.11	1.50E-03	620	-	8	-	-	-	-	-
VOC	1,2-DIBROMO-3-CHLOROPROPANE	mg/kg	✓		2.02			335	2	0.6	2.20E-03	9.70E-03	3.70E-03	420	-	46	-	-	-	-	-
VOC	1,2-DIBROMOETHANE	mg/kg			0.073			409	0	0	-	-	1.50E-03	620	-	167	-	-	-	-	-
VOC	1,2-DICHLOROBENZENE	mg/kg	✓	✓	600	0.9	17	760	287	37.8	7.00E-04	9,600	1.50E-03	170	28	-	3.7	170	22	85	11.2
VOC	1,2-DICHLOROETHANE	mg/kg	✓		0.603	0.001	0.02	417	5	1.2	1.50E-03	5.00E-03	1.50E-03	620	-	76	-	5	1	-	-
VOC	1,2-DICHLOROPROPANE	mg/kg			0.742	0.001	0.03	417	0	0	-	-	1.50E-03	620	-	75	-	-	-	-	-
VOC	1,3,5-TRICHLOROBENZENE	mg/kg	✓	✓	NE			56	5	8.9	1.00E-03	0.017	1.50E-03	6.8	-	-	-	-	-	-	-
VOC	1,3,5-TRIMETHYLBENZENE	mg/kg	✓	✓	69.7			409	4	1	1.10E-03	0.10	1.50E-03	620	-	9	-	-	-	-	-
VOC	1,3-DICHLOROBENZENE	mg/kg	✓	✓	600			759	140	18.4	8.80E-04	480	1.50E-03	620	-	2	-	-	-	-	-
VOC	1,3-DICHLOROPROPANE	mg/kg	✓		361			409	0	0	-	-	1.50E-03	620	-	4	-	-	-	-	-
VOC	1,3-DICHLOROPROPENE (TOTAL)	mg/kg	✓		1.76	0.0002	0.004	8	0	0	-	-	0.020	100	-	2	-	-	-	-	-
VOC	1,4-DICHLOROBENZENE	mg/kg	✓	✓	7.87	0.1	2	759	305	40.2	9.70E-04	21,000	1.50E-03	170	115	4	15.2	228	30	155	20
VOC	2,3-DIMETHYLPENTANE	mg/kg		✓	NE			56	3	5.4	0.21	5.2	1.50E-03	6.8	-	-	-	-	-	-	-
VOC	2-BUTANONE	mg/kg	✓		113,000			335	16	4.8	5.30E-03	0.056	7.30E-03	1,700	-	-	-	-	-	-	-
VOC	2-CHLOROTOLUENE	mg/kg	✓		560			409	4	1	6.90E-03	5.8	3.70E-03	620	-	2	-	-	-	-	-
VOC	2-HEXANONE	mg/kg	✓		NE			335	1	0.3	0.015	0.015	7.30E-03	850	-	-	-	-	-	-	-
VOC	2-METHYLHEXANE	mg/kg		✓	NE			56	3	5.4	2.40E-03	14	1.50E-03	6.8	-	-	-	-	-	-	-
VOC	3,3-DIMETHYLPENTANE	mg/kg		✓	NE			56	1	1.8	0.22	0.22	1.50E-03	6.8	-	-	-	-	-	-	-
VOC	3-METHYLHEXANE	mg/kg		✓	NE			56	3	5.4	0.76	17	1.50E-03	6.8	-	-	-	-	-	-	-
VOC	4-CHLOROTOLUENE	mg/kg	✓		NE			409	3	0.7	2.60E-03	3.5	3.70E-03	620	-	-	-	-	-	-	-
VOC	ACETONE	mg/kg	✓	✓	54,300	0.8	16	335	143	42.7	6.80E-03	0.30	7.30E-03	2,500	-	-	-	-	-	-	-
VOC	BENZENE	mg/kg	✓	✓	1.41	0.002	0.03	431	186	43.2	4.60E-04	4,700	1.50E-03	500	63	29	14.6	137	32	95	22
VOC	BROMOBENZENE	mg/kg	✓		92.2			409	0	0	-	-	3.70E-03	620	-	15	-	-	-	-	-
VOC	BROMODICHLOROMETHANE	mg/kg			1.83	0.03	0.6	417	3	0.7	4.80E-04	5.40E-03	1.50E-03	620	-	66	-	-	-	-	-
VOC	BROMOFORM	mg/kg	✓		218	0.04	0.8	417	1	0.2	2.90E-03	2.90E-03	3.70E-03	620	-	9	-	-	-	-	-
VOC	BROMOMETHANE	mg/kg			13.1	0.01	0.2	417	1	0.2	5.50E-03	5.50E-03	3.70E-03	620	-	41	-	-	-	-	-
VOC	CARBON DISULFIDE	mg/kg		✓	720	2	32	56	2	3.6	0.091	3.0	3.70E-03	8.5	-	-	-	1	2	-	-
VOC	CARBON TETRACHLORIDE	mg/kg	✓	✓	0.549	0.003	0.07	417	69	16.5	4.90E-04	750	3.70E-03	620	22	60	5.3	44	11	33	8
VOC	CHLOROBENZENE	mg/kg	✓	✓	530	0.07	1	431	220	51	5.40E-04	42,000	1.50E-03	55	42	-	9.7	155	36	122	28
VOC	CHLOROETHANE	mg/kg	✓		6.49			417	0	0	-	-	3.70E-03	620	-	52	-	-	-	-	-
VOC	CHLOROFORM	mg/kg	✓	✓	0.47	0.03	0.6	417	256	61.4	4.10E-04	2,100	1.50E-03	620	84	47	20.1	144	35	81	19
VOC	CHLOROMETHANE	mg/kg	✓		156			411	0	0	-	-	3.70E-03	620	-	9	-	-	-	-	-

TABLE 4-2

PREVALENCE TABLE
SITE-RELATED CHEMICALS IN VADOSE ZONE SOIL

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

GROUP	CHEMICAL	UNITS	MONTROSE SRC	STAUFFER SRC	PRG	DAF1 SOIL	DAF20 SOIL	TOTAL ANALYSES	NUMBER DETECTS	PERCENT DETECTIONS	MINIMUM DETECTED VALUE	MAXIMUM DETECTED VALUE	MINIMUM DETECTION LIMIT	MAXIMUM DETECTION LIMIT	NUMBER DETECTS > PRG	NUMBER NDS > PRG	PERCENT DETECTIONS >PRG	NUMBER DETECTS > DAF1	PERCENT DETECTIONS >DAF1	NUMBER DETECTS > DAF20	PERCENT DETECTIONS >DAF20
VOC	CIS-1,2-DICHLOROETHENE	mg/kg	✓		146	0.02	0.4	409	0	0	-	-	1.50E-03	620	-	8	-	-	-	-	-
VOC	DIBROMOCHLOROMETHANE	mg/kg	✓		2.55	0.02	0.4	417	0	0	-	-	1.50E-03	620	-	62	-	-	-	-	-
VOC	DIBROMOCHLOROPROPANE (DBCP)	mg/kg	✓		2.02			74	1	1.4	0.60	0.60	5.00E-03	620	-	27	-	-	-	-	-
VOC	DIBROMOMETHANE	mg/kg			234			409	0	0	-	-	1.50E-03	620	-	6	-	-	-	-	-
VOC	DICHLORODIFLUOROMETHANE	mg/kg	✓		308			408	1	0.2	6.30E-03	6.30E-03	3.70E-03	620	-	7	-	-	-	-	-
VOC	DIMETHYL DISULFIDE	mg/kg		✓	NE			78	6	7.7	1.80E-03	1.3	1.50E-03	50	-	-	-	-	-	-	-
VOC	ETHANOL	mg/kg	✓	✓	NE			209	4	1.9	0.37	5.6	1.0	1.0	-	-	-	-	-	-	-
VOC	ETHYLBENZENE	mg/kg	✓		395	0.7	13	417	5	1.2	5.10E-04	0.084	1.50E-03	620	-	4	-	-	-	-	-
VOC	HEXACHLOROBUTADIENE	mg/kg	✓	✓	22.1	0.1	2	751	3	0.4	1.20E-03	1.50E-03	3.70E-03	620	-	43	-	-	-	-	-
VOC	M,P-XYLENE	mg/kg	✓	✓	420	10	210	366	4	1.1	1.20E-03	0.47	1.50E-03	170	-		-	-	-	-	-
VOC	METHYLENE CHLORIDE	mg/kg	✓	✓	20.5	0.001	0.02	417	8	1.9	5.30E-03	0.84	5.00E-03	1,700	-	51	-	8	2	1	0.2
VOC	METHYL-TERT-BUTYL ETHER	mg/kg			70			335	1	0.3	0.088	0.088	3.70E-03	420	-	10	-	-	-	-	-
VOC	NAPHTHALENE	mg/kg	✓	✓	188	4	84	751	13	1.7	1.90E-03	3.6	3.70E-03	620	-	10	-	-	-	-	-
VOC	N-BUTYLBENZENE	mg/kg	✓		240			409	0	0	-	-	3.70E-03	620	-	9	-	-	-	-	-
VOC	N-HEPTANE	mg/kg		✓	NE			56	5	8.9	1.40E-03	16	1.50E-03	6.8	-	-	-	-	-	-	-
VOC	N-PROPYLBENZENE	mg/kg	✓		240			409	0	0	-	-	1.50E-03	620	-	6	-	-	-	-	-
VOC	NONANAL	mg/kg		✓	NE			56	9	16.1	4.00E-03	0.037	3.70E-03	17	-	-	-	-	-	-	-
VOC	O-XYLENE	mg/kg	✓	✓	420	10	210	366	3	0.8	5.00E-04	0.073	1.50E-03	170	-	-	-	-	-	-	-
VOC	P-ISOPROPYL TOLUENE	mg/kg			NE			335	1	0.3	1.20E-03	1.20E-03	1.50E-03	170	-	-	-	-	-	-	-
VOC	SEC-BUTYLBENZENE	mg/kg	✓		220			409	1	0.2	0.048	0.048	3.70E-03	620	-	9	-	-	-	-	-
VOC	STYRENE	mg/kg	✓		1,700	0.2	4	409	1	0.2	1.10E-03	1.10E-03	1.50E-03	620	-	-	-	-	-	-	-
VOC	TERT- BUTYLBENZENE	mg/kg	✓		390			409	0	0	-	-	3.70E-03	620	-	6	-	-	-	-	-
VOC	TETRACHLOROETHENE	mg/kg	✓		1.31	0.003	0.06	417	48	11.5	4.80E-04	3.8	1.60E-03	620	2	67	0.5	23	6	9	2
VOC	TOLUENE	mg/kg	✓	✓	520	0.6	12	417	74	17.7	4.60E-04	4.4	1.50E-03	620	-	2	-	4	1		
VOC	TOTAL XYLENES	mg/kg	✓	✓	420	10	210	51	0	0	-	-	0.25	620	-	4	-	-	-	-	-
VOC	TRANS-1,2-DICHLOROETHENE	mg/kg	✓		235	0.03	0.7	417	0	0	-	-	1.50E-03	620	-	6	-	-	-	-	-
VOC	TRICHLOROETHENE	mg/kg	✓		0.115	0.003	0.06	417	0	0	-	-	1.50E-03	620	-	112	-	-	-	-	-
VOC	VINYL CHLORIDE	mg/kg	✓		0.746	0.0007	0.01	417	0	0	-	-	3.70E-03	620	-	82	-	-	-	-	-

NOTES:
Vadose Zone Soil Depth Interval: 0 feet to water table (approximately 45 to 50 feet below ground surface).
DAF1 - Dilution attenuation factor, generic for where there is no attenuation between soil and groundwater
DAF20 - Dilution attenuation factor, generic for where there is attenuation between soil and groundwater
> - greater than
mg/kg - Milligrams per kilogram
NDS = Non-detects
NE - Not established
PCB - Polychlorinated biphenyl
PRG - U.S. Environmental Protection Agency, Region IX, Preliminary Remedial Goal for Industrial Soil
S/g_{PM10} - Asbestos structures per gram of respirable dust
SRC - Site-related chemical
SVOC - Semi-volatile organic compound
TPH - Total petroleum hydrocarbons
VOC - Volatile organic compound

TABLE 4-3

PREVALENCE TABLE
SITE-RELATED CHEMICALS IN SATURATED ZONE SOIL

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

GROUP	CHEMICAL	UNITS	MONTROSE SRC	STAUFFER SRC	PRG	TOTAL ANALYSES	NUMBER DETECTS	PERCENT DETECTIONS	MINIMUM DETECTED VALUE	MAXIMUM DETECTED VALUE	MINIMUM DETECTION LIMIT	MAXIMUM DETECTION LIMIT	NUMBER DETECTIONS > PRG	NUMBER NDS > PRG	PERCENT DETECTIONS >PRG
INDICATOR CHEMICAL	ALKALINITY AS CACO3	mg/kg			NE	8	8	100	200	48,000	-	-	-		-
INDICATOR CHEMICAL	ALKALINITY, BICARBONATE (AS CACO3)	mg/kg			NE	8	8	100	200	46,000	-	-	-		-
INDICATOR CHEMICAL	ALKALINITY, CARBONATE (AS CACO3)	mg/kg			NE	8	3	37.5	200	2,400	100	100	-		-
INDICATOR CHEMICAL	AMMONIA	mg/kg	✓	✓	NE	8	3	37.5	0.92	1.7	5.0	5.0	-		-
INDICATOR CHEMICAL	CHLORIDE	mg/kg	✓		NE	8	8	100	54	3,500	-	-	-		-
INDICATOR CHEMICAL	IRON	mg/kg	✓	✓	100,000	8	8	100	4,300	13,000	-	-	-		-
INDICATOR CHEMICAL	PH	pH Units	✓		NE	8	8	100	6.4	9.1	-	-	-		-
INDICATOR CHEMICAL	SODIUM	mg/kg	✓	✓	NE	8	7	87.5	430	3,000	660	660	-		-
INDICATOR CHEMICAL	SULFATE	mg/kg	✓		NE	8	8	100	57	580	-	-	-		-
INDICATOR CHEMICAL	SULFUR	mg/kg	✓		NE	9	8	88.9	118	1,250	50	50	-		-
INORGANIC	FLUORIDE	mg/kg	✓		36,900	8	8	100	2.0	3.6	-	-	-		-
METAL	ALUMINUM	mg/kg	✓	✓	100,000	8	8	100	7,000	19,000	-	-	-		-
METAL	ANTIMONY	mg/kg	✓	✓	409	8	1	12.5	0.16	0.16	0.99	1.0	-		-
METAL	ARSENIC	mg/kg	✓	✓	1.59	8	8	100	3.2	25	-	-	8		100
METAL	BARIUM	mg/kg	✓		66,600	8	8	100	28	210	-	-	-		-
METAL	BERYLLIUM	mg/kg	✓	✓	1,940	8	8	100	0.40	0.86	-	-	-		-
METAL	BORON	mg/kg			100,000	8	4	50	16	20	4.9	30	-		-
METAL	CADMIUM	mg/kg	✓	✓	451	8	2	25	0.043	0.20	0.49	0.50	-		-
METAL	CALCIUM	mg/kg	✓	✓	NE	8	8	100	2,600	120,000	-	-	-		-
METAL	CHROMIUM	mg/kg	✓	✓	448	8	8	100	5.6	50	-	-	-		-
METAL	COBALT	mg/kg	✓	✓	1,920	8	8	100	2.8	5.4	-	-	-		-
METAL	COPPER	mg/kg	✓	✓	40,900	8	8	100	9.2	13	-	-	-		-
METAL	HEXAVALENT CHROMIUM	mg/kg	✓	✓	64	8	1	12.5	0.059	0.059	0.20	0.20	-		-
METAL	LEAD	mg/kg	✓	✓	800	8	8	100	4.6	8.8	-	-	-		-
METAL	LITHIUM	mg/kg			20,400	8	7	87.5	36	59	13	13	-		-
METAL	MAGNESIUM	mg/kg	✓	✓	NE	8	8	100	5,700	35,000	-	-	-		-
METAL	MANGANESE	mg/kg	✓	✓	19,500	8	8	100	100	320	-	-	-		-
METAL	MERCURY	mg/kg	✓	✓	307	8	3	37.5	0.011	0.012	0.020	0.020	-		-
METAL	MOLYBDENUM	mg/kg	✓		5,110	8	5	62.5	0.33	0.99	0.99	1.0	-		-
METAL	NICKEL	mg/kg	✓	✓	20,400	8	8	100	5.5	15	-	-	-		-
METAL	PHOSPHORUS, TOTAL (AS P)	mg/kg	✓	✓	NE	16	16	100	98	790	-	-	-		-
METAL	POTASSIUM	mg/kg	✓	✓	NE	8	8	100	1,700	3,600	-	-	-		-
METAL	SELENIUM	mg/kg	✓	✓	5,110	8	5	62.5	0.20	0.29	0.99	1.0	-		-
METAL	SILVER	mg/kg	✓	✓	5,110	8	8	100	0.11	0.21	-	-	-		-
METAL	STRONTIUM	mg/kg			100,000	8	8	100	75	230	-	-	-		-
METAL	THALLIUM	mg/kg	✓	✓	67.5	8	6	75	0.10	0.29	0.49	0.50	-		-
METAL	TITANIUM	mg/kg		✓	100,000	8	8	100	230	540	-	-	-		-
METAL	VANADIUM	mg/kg	✓	✓	1,020	8	8	100	17	30	-	-	-		-
METAL	ZINC	mg/kg	✓	✓	100,000	8	8	100	19	39	-	-	-		-
ORGANIC ACID	4-CHLOROBENZENESULFONIC ACID	mg/kg	✓	✓	NE	7	2	28.6	0.74	0.81	0.50	0.50	-		-
PCB	2,3-DICB-(5)	mg/kg	✓		NE	107	67	62.6	4.70E-06	0.13	2.70E-07	8.60E-06	-		-
PCB	2,3'-DICB-(6)	mg/kg	✓		NE	107	82	76.6	2.40E-06	0.51	2.30E-07	7.03E-05	-		-
PCB	2,4-DICB-(7)	mg/kg	✓		NE	107	35	32.7	2.20E-06	0.036	2.20E-07	2.10E-05	-		-
PCB	2,4'-DICB-(8)	mg/kg	✓		NE	107	79	73.8	2.40E-06	0.89	1.40E-06	4.64E-05	-		-
PCB	2,5-DICB-(9)	mg/kg	✓		NE	107	75	70.1	3.20E-06	0.38	2.20E-07	1.40E-05	-		-
PCB	2,6-DICHLOROBIPHENYL	mg/kg	✓		NE	107	29	27.1	4.20E-06	9.48E-03	5.60E-07	9.50E-06	-		-
PCB	22'-DICB-(4)	mg/kg	✓		NE	107	74	69.2	4.70E-06	0.63	7.60E-07	6.89E-05	-		-
PCB	3,3'-DICB-(11)	mg/kg	✓		NE	107	94	87.9	2.60E-06	0.091	2.30E-06	0.011	-		-
PCB	3,5-DICB-(14)	mg/kg	✓		NE	107	32	29.9	4.60E-06	0.025	2.40E-07	9.30E-06	-		-
PCB	4,4'-DICHLOROBIPHENYL	mg/kg	✓		NE	107	55	51.4	5.20E-06	0.15	2.70E-07	2.10E-05	-		-
PCB	AROCLOR-1254	mg/kg	✓	✓	0.744	109	0	0	-	-	0.05	5.00E+00	-	2	-
PCB	DICB-(12)+(13)	mg/kg	✓		NE	107	76	71	3.80E-06	0.41	2.30E-07	2.50E-05	-		-
PCB	PCB 077	mg/kg	✓	✓	NE	107	33	30.8	2.80E-07	4.77E-03	1.50E-07	1.10E-05	-		-
PCB	PCB 081	mg/kg	✓	✓	NE	107	14	13.1	2.10E-06	6.00E-03	1.60E-07	3.60E-05	-		-
PCB	PCB 105	mg/kg	✓	✓	NE	107	23	21.5	6.90E-07	0.016	4.30E-07	0.045	-		-
PCB	PCB 114	mg/kg	✓	✓	NE	107	18	16.8	1.90E-06	0.022	1.70E-07	2.40E-05	-		-
PCB	PCB 118	mg/kg	✓	✓	NE	107	61	57	3.13E-06	0.084	2.40E-06	1.08E-05	-		-
PCB	PCB 123	mg/kg	✓	✓	NE	107	15	14	2.20E-06	1.80E-03	1.70E-07	3.60E-05	-		-
PCB	PCB 126	mg/kg	✓	✓	NE	107	10	9.3	1.84E-05	1.19E-03	1.60E-07	8.80E-06	-		-
PCB	PCB 156+157	mg/kg	✓		NE	107	49	45.8	8.90E-07	0.016	6.40E-07	8.70E-06	-		-
PCB	PCB 167	mg/kg	✓	✓	NE	106	45	42.5	4.40E-07	4.81E-03	2.80E-07	1.30E-05	-		-

TABLE 4-3

PREVALENCE TABLE
SITE-RELATED CHEMICALS IN SATURATED ZONE SOIL

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

GROUP	CHEMICAL	UNITS	MONTROSE SRC	STAUFFER SRC	PRG	TOTAL ANALYSES	NUMBER DETECTS	PERCENT DETECTIONS	MINIMUM DETECTED VALUE	MAXIMUM DETECTED VALUE	MINIMUM DETECTION LIMIT	MAXIMUM DETECTION LIMIT	NUMBER DETECTIONS > PRG	NUMBER NDS > PRG	PERCENT DETECTIONS >PRG
PCB	PCB 169	mg/kg	✓	✓	NE	106	3	2.8	6.70E-07	2.17E-05	1.10E-07	2.70E-04	-		-
PCB	PCB 189	mg/kg	✓	✓	NE	107	16	15	4.20E-07	1.19E-03	2.10E-07	6.70E-06	-		-
PESTICIDE	2,4'-DDD	mg/kg	✓	✓	NE	166	12	7.2	1.70E-03	0.68	0.0050	5.0	-		-
PESTICIDE	2,4'-DDE	mg/kg	✓	✓	NE	166	28	16.9	1.10E-03	7.5	0.0050	0.40	-		-
PESTICIDE	2,4'-DDT	mg/kg	✓		NE	166	22	13.3	1.80E-03	4.1	0.0050	0.10	-		-
PESTICIDE	4,4'-DDD	mg/kg	✓	✓	9.95	166	11	6.6	1.60E-03	0.64	0.0050	5.0	-		-
PESTICIDE	4,4'-DDE	mg/kg	✓	✓	7.02	166	24	14.5	1.50E-03	21	0.0050	0.10	4		2.4
PESTICIDE	4,4'-DDT	mg/kg	✓	✓	7.02	166	24	14.5	3.90E-03	26	0.0050	0.10	4		2.4
PESTICIDE	ALDRIN	mg/kg	✓	✓	0.101	166	1	0.6	6.20E-03	6.20E-03	0.0050	5.0	-	6	-
PESTICIDE	ALPHA-BHC	mg/kg	✓	✓	0.359	166	47	28.3	1.60E-03	2.0	0.0050	0.10	4		2.4
PESTICIDE	BETA-BHC	mg/kg	✓	✓	1.26	166	9	5.4	3.50E-03	0.15	0.0050	5.0	-	3	-
PESTICIDE	CHLORDANE	mg/kg			6.47	166	0	0	-	-	0.050	50.0	-	4	-
PESTICIDE	DELTA-BHC	mg/kg	✓	✓	NE	166	20	12	1.50E-03	0.039	0.0099	10	-		-
PESTICIDE	DIELDRIN	mg/kg	✓	✓	0.108	166	13	7.8	1.50E-03	0.65	0.0050	5.0	2	5	1.2
PESTICIDE	ENDOSULFAN I	mg/kg	✓	✓	3,690	166	6	3.6	2.60E-03	0.92	0.0050	5.0	-		-
PESTICIDE	ENDOSULFAN II	mg/kg			3,690	166	2	1.2	4.80E-03	5.70E-03	0.0050	5.0	-		-
PESTICIDE	ENDOSULFAN SULFATE	mg/kg	✓	✓	NE	166	9	5.4	3.50E-03	2.2	0.0099	10	-		-
PESTICIDE	ENDRIN	mg/kg	✓	✓	185	165	1	0.6	0.065	0.065	0.0050	5.0	-		-
PESTICIDE	ENDRIN ALDEHYDE	mg/kg	✓	✓	NE	166	20	12	1.80E-03	0.31	0.0050	5.0	-		-
PESTICIDE	ENDRIN KETONE	mg/kg			NE	166	4	2.4	2.40E-03	0.071	0.0050	5.0	-		-
PESTICIDE	GAMMA-BHC (LINDANE)	mg/kg	✓	✓	1.74	166	24	14.5	2.10E-03	0.094	0.0050	5.0	-	3	-
PESTICIDE	HEPTACHLOR	mg/kg			0.383	166	1	0.6	4.00E-03	4.00E-03	0.0050	5.0	-	6	-
PESTICIDE	HEPTACHLOR EPOXIDE	mg/kg	✓	✓	0.189	166	2	1.2	2.20E-03	3.10E-03	0.0050	5.0	-	6	-
PESTICIDE	METHOXYCHLOR	mg/kg			3,080	166	8	4.8	3.10E-03	18	0.0050	5.0	-		-
PESTICIDE	TOXAPHENE	mg/kg			1.57	166	0	0	-	-	0.20	200.0	-	9	-
SVOC	1,2,4,5-TETRACHLOROBENZENE	mg/kg	✓	✓	185	147	6	4.1	0.15	15	0.33	33	-		-
SVOC	1,2,4-TRICHLOROBENZENE	mg/kg	✓	✓	216	313	47	15	1.20E-03	140	0.0042	350	-	4	-
SVOC	1,4-DIOXANE	mg/kg			157	109	4	3.7	7.70E-03	0.015	0.025	1.2	-		-
SVOC	2,2'-/4,4'-DICHLOROBENZIL	mg/kg	✓		NE	147	10	6.8	0.15	15	0.33	33	-		-
SVOC	2,4-DICHLOROPHENOL	mg/kg	✓	✓	1,850	147	2	1.4	0.061	0.23	0.33	33	-		-
SVOC	2-CHLOROPHENOL	mg/kg	✓	✓	236	147	7	4.8	0.075	0.80	0.33	33	-		-
SVOC	3,3'-DICHLOROBENZIDINE	mg/kg			3.83	147	0	0	-	-	0.83	83	-	9	-
SVOC	4-NITROANILINE	mg/kg			82.1	147	0	0	-	-	0.83	83	-	2	-
SVOC	AZOBENZENE	mg/kg			15.7	147	0	0	-	-	0.33	33	-	4	-
SVOC	BENZIDINE	mg/kg			0.00749	7	0	0	-	-	0.66	1.3	-	7	-
SVOC	BENZO(A)ANTHRACENE	mg/kg			2.11	147	0	0	-	-	0.33	33	-	8	-
SVOC	BENZO(A)PYRENE	mg/kg			0.211	147	0	0	-	-	0.33	33	-	147	-
SVOC	BENZO(B)FLUORANTHENE	mg/kg			2.11	147	0	0	-	-	0.33	33	-	8	-
SVOC	BENZO(K)FLUORANTHENE	mg/kg			21.1	147	0	0	-	-	0.33	33	-	4	-
SVOC	BENZOIC ACID	mg/kg	✓	✓	100,000	147	9	6.1	0.39	0.63	0.83	83	-		-
SVOC	BIS(2-CHLOROETHYL)ETHER	mg/kg			0.575	147	0	0	-	-	0.17	6.8		9	
SVOC	BIS(2-CHLOROISOPROPYL)ETHER	mg/kg			7.35	147	0	0	-	-	0.33	33		7	
SVOC	BIS(2-ETHYLHEXYL)PHTHALATE	mg/kg	✓	✓	123	147	3	2	0.13	0.19	0.33	33	-		-
SVOC	BIS-(4-CHLOROPHENYL)METHANONE	mg/kg	✓	✓	18,500	147	1	0.7	2.6	2.6	0.33	33	-		-
SVOC	DIBENZO(A,H)ANTHRACENE	mg/kg			0.211	147	0	0	-	-	0.42	42	-	147	-
SVOC	DIETHYL PHTHALATE	mg/kg		✓	100,000	147	1	0.7	0.071	0.071	0.33	33	-		-
SVOC	DI-N-BUTYL PHTHALATE	mg/kg	✓	✓	61,600	147	10	6.8	0.062	0.17	0.33	33	-		-
SVOC	HEXACHLOROBENZENE	mg/kg	✓	✓	1.08	147	1	0.7	2.2	2.2	0.33	33	1	8	0.7
SVOC	INDENO(1,2,3-CD)PYRENE	mg/kg		✓	2.11	147	0	0	-	-	0.33	33	-	8	-
SVOC	N-NITROSODIMETHYLAMINE	mg/kg			0.0338	147	0	0	-	-	0.33	33	-	147	-
SVOC	N-NITROSO-DI-N-PROPYLAMINE	mg/kg			0.246	147	0	0	-	-	0.25	25	-	147	-
SVOC	PENTACHLOROBENZENE	mg/kg	✓	✓	492	147	3	2	0.16	3.0	0.33	33	-		-
SVOC	PENTACHLOROPHENOL	mg/kg	✓		9.00	147	0	0	-	-	0.83	83	-	7	-
SVOC	PHENOL	mg/kg	✓	✓	100,000	147	16	10.9	0.048	4.1	0.33	33	-		-
SVOC	PYRIDINE	mg/kg		✓	616	147	6	4.1	0.091	0.19	0.20	20	-		-
TPH	DRO (C8-C24)	mg/kg	✓	✓	NE	8	6	75	3.2	12	5.0	5.0	-		-
TPH	EFH (C8 - C40)	mg/kg	✓	✓	NE	8	6	75	3.6	12	5.0	5.0	-		-
TPH	GRO (C4 - C12)	mg/kg	✓	✓	NE	8	8	100	28	200			-		-
VOC	1,1,1,2-TETRACHLOROETHANE	mg/kg			7.28	166	0	0	-	-	0.0042	350.0	-	8	-
VOC	1,1,2,2-TETRACHLOROETHANE	mg/kg			0.929	166	0	0	-	-	0.0017	140	-	29	-
VOC	1,1,2-TRICHLOROETHANE	mg/kg	✓		1.61	166	3	1.8	1.30E-03	8.30E-03	0.0017	140	-	13	-
VOC	1,1-DICHLOROETHANE	mg/kg	✓		1,740	166	17	10.2	2.90E-03	0.45	0.0017	140	-		-

TABLE 4-3

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CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

GROUP	CHEMICAL	UNITS	MONTROSE SRC	STAUFFER SRC	PRG	TOTAL ANALYSES	NUMBER DETECTS	PERCENT DETECTIONS	MINIMUM DETECTED VALUE	MAXIMUM DETECTED VALUE	MINIMUM DETECTION LIMIT	MAXIMUM DETECTION LIMIT	NUMBER DETECTIONS > PRG	NUMBER NDS > PRG	PERCENT DETECTIONS >PRG
VOC	1,1-DICHLOROETHENE	mg/kg	✓		413	166	3	1.8	1.20E-03	0.66	0.0042	350	-		-
VOC	1,2,3-TRICHLOROBENZENE	mg/kg	✓	✓	NE	166	4	2.4	0.14	4.4	0.0042	350	-		-
VOC	1,2,3-TRICHLOROPROPANE	mg/kg	✓		0.076	166	0	0	-	-	0.0084	700	-	87	-
VOC	1,2,4-TRIMETHYLBENZENE	mg/kg	✓	✓	170	166	1	0.6	2.60E-03	2.60E-03	0.0017	140	-		-
VOC	1,2-DIBROMO-3-CHLOROPROPANE	mg/kg	✓		2.02	166	1	0.6	1.2	1.2	0.0042	350	-	31	-
VOC	1,2-DIBROMOETHANE	mg/kg			0.073	166	0	0	-	-	0.0017	140	-	87	-
VOC	1,2-DICHLOROBENZENE	mg/kg	✓	✓	600	313	149	47.6	1.20E-03	6,100	0.0017	2.3	7		2.2
VOC	1,2-DICHLOROETHANE	mg/kg	✓		0.603	166	10	6	4.10E-03	0.25	0.0017	140	-	31	-
VOC	1,2-DICHLOROPROPANE	mg/kg			0.742	166	0	0	-	-	0.0017	140	-	31	-
VOC	1,3,5-TRIMETHYLBENZENE	mg/kg	✓	✓	69.7	166	1	0.6	1.00E-03	1.00E-03	0.0017	140	-	5	-
VOC	1,3-DICHLOROBENZENE	mg/kg	✓	✓	600	313	65	20.8	1.20E-03	290	0.0017	33	-		-
VOC	1,4-DICHLOROBENZENE	mg/kg	✓	✓	7.87	313	154	49.2	1.00E-03	9,000	0.0017	2.3	46		14.7
VOC	2-CHLOROTOLUENE	mg/kg	✓		560	166	4	2.4	0.055	0.98	0.0042	350	-		-
VOC	4-CHLOROTOLUENE	mg/kg	✓		NE	166	4	2.4	0.046	1.2	0.0042	350	-		-
VOC	ACETONE	mg/kg	✓	✓	54,300	166	33	19.9	9.10E-03	0.040	0.0089	2,100	-		-
VOC	BENZENE	mg/kg	✓	✓	1.41	166	139	83.7	4.70E-04	1,200	0.0018	0.10	75		45.2
VOC	BROMOBENZENE	mg/kg	✓		92.2	166	0	0	-	-	0.0042	350	-	6	-
VOC	BROMODICHLOROMETHANE	mg/kg			1.83	166	0	0	-	-	0.0017	140	-	13	-
VOC	BROMOFORM	mg/kg	✓		218	166	0	0	-	-	0.0042	350	-	5	-
VOC	BROMOMETHANE	mg/kg			13.1	166	0	0	-	-	0.0042	350	-	7	-
VOC	CARBON TETRACHLORIDE	mg/kg	✓	✓	0.549	166	32	19.3	6.90E-04	95	0.0043	270	19	24	11.4
VOC	CHLOROBENZENE	mg/kg	✓	✓	530	166	110	66.3	5.90E-04	18,000	0.0018	0.098	10		6.0
VOC	CHLOROETHANE		✓		6.49	166	0	0	-	-	0.0042	350	-	8	-
VOC	CHLOROFORM	mg/kg	✓	✓	0.47	166	111	66.9	3.60E-04	180	0.0018	140	75	6	45.2
VOC	CHLOROMETHANE	mg/kg	✓		156	166	0	0	-	-	0.0042	350	-	5	-
VOC	DIBROMOCHLOROMETHANE	mg/kg	✓		2.55	166	0	0	-	-	0.0017	140	-	8	-
VOC	ETHYLBENZENE	mg/kg	✓		395	166	1	0.6	8.80E-04	8.80E-04	0.0017	140	-		-
VOC	HEXACHLOROBUTADIENE	mg/kg	✓	✓	22.1	313	1	0.3	7.50E-04	7.50E-04	0.0042	350	-	10	-
VOC	M,P-XYLENE	mg/kg	✓	✓	420	166	8	4.8	8.00E-04	4.90E-03	0.0017	140	-		-
VOC	METHYLENE CHLORIDE	mg/kg	✓	✓	20.5	166	22	13.3	0.011	1.6	0.017	1,400	-	12	-
VOC	METHYL-TERT-BUTYL ETHER	mg/kg			70	166	0	0	-	-	0.0042	350	-	6	-
VOC	NAPHTHALENE	mg/kg	✓	✓	188	313	2	0.6	0.13	0.60	0.0042	350	-	5	-
VOC	N-BUTYLBENZENE	mg/kg	✓		240	166	0	0	-	-	0.0042	350	-	4	-
VOC	O-XYLENE	mg/kg	✓	✓	420	166	1	0.6	1.60E-03	1.60E-03	0.0017	140	-		-
VOC	SEC-BUTYLBENZENE	mg/kg	✓		220	166	0	0	-	-	0.0042	350	-	5	-
VOC	TETRACHLOROETHENE	mg/kg	✓		1.31	166	4	2.4	1.50E-03	1.7	0.0017	140	1	13	0.6
VOC	TRICHLOROETHENE	mg/kg	✓		0.115	166	0	0	-	-	0.0017	140	-	52	-
VOC	TOLUENE	mg/kg	✓	✓	520	166	47	28.3	5.00E-04	7.60E-03	0.0017	140	-		-
VOC	VINYL CHLORIDE	mg/kg	✓		0.746	166	0	0	-	-	0.0042	350	-	38	-

NOTES:

Saturated Zone Soil Depth Interval: Below water table (approximately 45 to 50 feet below ground surface) to approximately 170 feet below ground surface.

> - greater than

mg/kg - Milligrams per kilogram

NDS = Non-detects

NE - Not established

PCB - Polychlorinated biphenyl

PRG - U.S. Environmental Protection Agency, Region IX, Preliminary Remedial Goal for Industrial Soil

S/g_{PM10} - Asbestos structures per gram of respirable dust

SRC - Site-related chemical

SVOC - Semi-volatile organic compound

TPH - Total petroleum hydrocarbons

VOC - Volatile organic compound

(1) = these generic values will be replaced by with site-specific criteria as they are developed.

Original chemicals on the table that had detection limits > PRG.

Any new chemicals added to the table (previously all NDs) where one or more detection limit > PRG.

TABLE 4-4

PREVALENCE TABLE
SITE-RELATED CHEMICALS IN ALLUVIAL AQUIFER GROUNDWATER

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

GROUP	CHEMICAL	UNITS	MONTROSE SRC	STAUFFER SRC	MCL	PRG	TOTAL ANALYSES	NUMBER DETECTS	PERCENT DETECTIONS	MINIMUM DETECTED VALUE	MAXIMUM DETECTED VALUE	MINIMUM DETECTION LIMIT	MAXIMUM DETECTION LIMIT	EXCEEDS MCL?	NUMBER DETECTS > MCL	NUMBER DETECTS > PRG (IF NO MCL)	NUMBER NDS > MCL	NUMBER NDS > PRG (IF NO MCL)	PERCENT DETECTIONS >MCL
ALDEHYDES	ACETALDEHYDE	ug/l	✓		NE	1.75	87	18	20.7	3.9	150	30	30	-	-	18	-	69	-
ALDEHYDES	CHLOROACETALDEHYDE	ug/l	✓		NE	NE	87	2	2.3	3.9	4.6	10	10	-	-	-	-	-	-
ALDEHYDES	FORMALDEHYDE	ug/l		✓	NE	5470	87	12	13.8	24	870	60	97	-	-	-	-	-	-
DIOXINS/FURANS	1,2,3,4,6,7,8-HEPTACHLORINATED DIBENZO-P-DIOXIN	ug/l		✓	NE	NE	47	3	6.4	1.60E-06	1.80E-06	4.90E-07	1.80E-05	-	-	-	-	-	-
DIOXINS/FURANS	1234678-HEPTACHLORINATED DIBENZOFURAN	ug/l		✓	NE	NE	47	1	2.1	5.00E-05	5.00E-05	4.30E-07	2.20E-05	-	-	-	-	-	-
DIOXINS/FURANS	1234789-HEPTACHLORINATED DIBENZOFURAN	ug/l		✓	NE	NE	47	2	4.3	6.80E-07	1.48E-06	5.70E-07	1.70E-05	-	-	-	-	-	-
DIOXINS/FURANS	123478-HEXACHLORINATED DIBENZOFURAN	ug/l		✓	NE	NE	47	1	2.1	6.30E-07	6.30E-07	4.40E-07	1.80E-05	-	-	-	-	-	-
DIOXINS/FURANS	2,3,7,8-TCDD	ug/l		✓	3.E-05	4.50E-07	47	1	2.1	4.10E-04	4.10E-04	4.40E-07	2.80E-03	YES	1	-	2	-	2.1
DIOXINS/FURANS	23478-PENTACHLORINATED DIBENZOFURAN	ug/l		✓	NE	NE	47	7	14.9	5.50E-07	2.40E-06	5.20E-07	2.10E-05	-	-	-	-	-	-
DIOXINS/FURANS	2378-TETRACHLORINATED DIBENZOFURAN	ug/l		✓	NE	NE	47	10	21.3	8.30E-07	1.64E-05	4.90E-07	1.60E-05	-	-	-	-	-	-
DIOXINS/FURANS	HEPTACHLORINATED DIBENZOFURAN	ug/l		✓	NE	NE	35	2	5.7	1.23E-06	1.48E-06	4.90E-07	1.40E-06	-	-	-	-	-	-
DIOXINS/FURANS	HEPTACHLORINATED DIBENZO-P-DIOXIN	ug/l		✓	NE	NE	35	4	11.4	1.01E-06	1.80E-06	4.90E-07	1.20E-06	-	-	-	-	-	-
DIOXINS/FURANS	HEXACHLORINATED DIBENZOFURAN	ug/l		✓	NE	NE	35	1	2.9	6.30E-07	6.30E-07	4.90E-07	1.20E-06	-	-	-	-	-	-
DIOXINS/FURANS	OCTACHLORINATED DIBENZOFURAN	ug/l		✓	NE	NE	47	7	14.9	1.70E-06	9.60E-05	9.70E-07	5.20E-05	-	-	-	-	-	-
DIOXINS/FURANS	OCTACHLORINATED DIBENZO-P-DIOXIN	ug/l		✓	NE	NE	47	1	2.1	7.50E-05	7.50E-05	9.60E-07	4.50E-05	-	-	-	-	-	-
DIOXINS/FURANS	PENTACHLORINATED DIBENZOFURAN	ug/l		✓	NE	NE	35	14	40.0	5.50E-07	6.46E-06	5.20E-07	2.90E-06	-	-	-	-	-	-
DIOXINS/FURANS	PENTACHLORINATED DIBENZO-P-DIOXIN	ug/l		✓	NE	NE	35	2	5.7	1.46E-06	1.92E-06	5.00E-07	1.90E-06	-	-	-	-	-	-
DIOXINS/FURANS	TETRACHLORINATED DIBENZOFURAN	ug/l		✓	NE	NE	35	24	68.6	7.50E-07	4.03E-05	5.00E-07	2.70E-06	-	-	-	-	-	-
DIOXINS/FURANS	TETRACHLORINATED DIBENZO-P-DIOXIN	ug/l		✓	NE	NE	35	8	22.9	9.30E-07	2.30E-05	4.40E-07	5.40E-06	-	-	-	-	-	-
GENERAL CHEMICAL	SPECIFIC CONDUCTANCE	umhos/cm			NE	NE	28	28	100	1,220	19,000	-	-	-	-	-	-	-	-
GENERAL CHEMICAL	TOTAL DISSOLVED SOLIDS	mg/l	✓	✓	NE	NE	175	175	100	700	60,000	-	-	-	-	-	-	-	-
GENERAL CHEMICAL	TOTAL INORGANIC CARBON	mg/l			NE	NE	30	30	100	0.36	606	-	-	-	-	-	-	-	-
GENERAL CHEMICAL	TOTAL KJELDAHL NITROGEN	mg/l			NE	NE	12	8	66.7	0.17	7.7	0.10	0.10	-	-	-	-	-	-
GENERAL CHEMICAL	TOTAL ORGANIC CARBON	mg/l			NE	NE	47	37	78.7	1.3	457	1.0	1.0	-	-	-	-	-	-
GENERAL CHEMICAL	TOTAL SUSPENDED SOLIDS	mg/l			NE	NE	12	12	100	38	5,420	-	-	-	-	-	-	-	-
HERBICIDE	2,4,5-TP (SILVEX)	ug/l			50	292	12	1	8.3	19	19	1.0	1.0	-	-	-	-	-	-
HERBICIDE	DALAPON; 2,2-DICHLOROPROPANOIC	ug/l			200	1095	12	9	75.0	2.6	7.6	2.0	2.0	-	-	-	-	-	-
HERBICIDE	DICAMBA	ug/l			NE	1095	12	2	16.7	2.4	3.5	2.0	2.0	-	-	-	-	-	-
HERBICIDE	MCPA	ug/l			NE	18.3	12	0	-	-	-	400	400	-	-	-	-	12	-
INDICATOR CHEMICAL	ALKALINITY AS CACO3	mg/l			NE	NE	84	83	98.8	40	12,000	2.0	2.0	-	-	-	-	-	-
INDICATOR CHEMICAL	ALKALINITY, BICARBONATE (AS CACO3)	mg/l			NE	NE	83	80	96.4	40	1,510	2.0	2.0	-	-	-	-	-	-
INDICATOR CHEMICAL	ALKALINITY, CARBONATE (AS CACO3)	mg/l			NE	NE	83	2	2.4	2,200	10,000	1.0	5.0	-	-	-	-	-	-
INDICATOR CHEMICAL	ALKALINITY, HYDROXIDE AS CACO3	mg/l	✓		NE	NE	76	2	2.6	340	1,500	2.0	5.0	-	-	-	-	-	-
INDICATOR CHEMICAL	ALKALINITY, TOTAL	mg/l			NE	NE	12	12	100	159	1,510	-	-	-	-	-	-	-	-
INDICATOR CHEMICAL	AMMONIA	mg/l	✓	✓	NE	NE	87	50	57.5	0.064	41	0.050	0.50	-	-	-	-	-	-
INDICATOR CHEMICAL	CHLORIDE	mg/l	✓		NE	NE	95	95	100	0.55	30,000	-	-	-	-	-	-	-	-
INDICATOR CHEMICAL	HARDNESS, TOTAL	mg/l			NE	NE	12	12	100	208	844	-	-	-	-	-	-	-	-
INDICATOR CHEMICAL	HYDROXIDE	mg/l			NE	NE	77	2	2.6	120	510	0.70	1.8	-	-	-	-	-	-
INDICATOR CHEMICAL	IRON	mg/l	✓	✓	NE	10.9	94	55	58.5	0.017	82	0.040	0.20	-	-	3	-	-	-
INDICATOR CHEMICAL	PH	pH units	✓		NE	NE	94	94	100	5.4	13	-	-	-	-	-	-	-	-
INDICATOR CHEMICAL	SODIUM	mg/l	✓	✓	NE	NE	94	94	100	160	25,000	-	-	-	-	-	-	-	-
INDICATOR CHEMICAL	SULFATE	mg/l	✓		NE	NE	95	95	100	71	5,980	-	-	-	-	-	-	-	-
INDICATOR CHEMICAL	SULFUR	mg/l	✓		NE	NE	59	59	100	68	1,270	-	-	-	-	-	-	-	-
INORG	NITRITE	mg/l			1	1.00	43	0	-	-	-	0.02	3	-	-	-	20	-	-
INORGANIC	BICARBONATE	mg/l		✓	NE	NE	77	74	96.1	49	7,900	2.4	2.4	-	-	-	-	-	-
INORGANIC	CARBONATE AS CACO3	mg/l			NE	NE	77	2	2.6	1,300	6,200	1.2	3.0	-	-	-	-	-	-
INORGANIC	CHLORATE	ug/l		✓	NE	NE	48	36	75.0	91	2,300,000	20	400	-	-	-	-	-	-
INORGANIC	FLUORIDE	mg/l	✓		4	2.19	72	56	77.8	0.098	16	1.0	25	YES	14	-	11	-	19.4
INORGANIC	IODIDE	ug/l		✓	NE	NE	62	46	74.2	66	520,000	100	5,000	-	-	-	-	-	-
INORGANIC	NITRATE	mg/l		✓	10	10.0	98	44	44.9	0.18	67	0.020	11	YES	12	-	2	-	12.2
INORGANIC	ORTHOPHOSPHATE	mg/l			NE	NE	36	7	19.4	0.13	8.7	0.16	50	-	-	-	-	-	-
INORGANIC	PERCHLORATE	ug/l			NE	3.65	61	41	67.2	12	62,000	4.0	800	-	-	-	-	-	-
INORGANIC	SILICA	mg/l			NE	NE	7	7	100	79	120	-	-	-	-	-	-	-	-
INORGANIC	SULFIDE	mg/l			NE	NE	12	4	33.3	1.6	114	1.0	1.0	-	-	-	-	-	-
INORGANIC	SULFITE	mg/l			NE	NE	12	1	8.3	170	170	10	10	-	-	-	-	-	-
METAL	ALUMINUM	mg/l	✓	✓	NE	36.5	87	20	23.0	0.011	1.5	0.0100	3.0	-	-	-	-	-	-
METAL	ANTIMONY	mg/l	✓	✓	6.E-03	0.0146	87	14	16.1	7.80E-05	5.40E-03	2.00E-03	0.20	-	-	-	62	-	-
METAL	ARSENIC	mg/l	✓	✓	0.01	4.48E-05	168	162	96.4	9.40E-03	2.7	1.00E-03	5.00E-03	YES	161	-	-	-	95.8
METAL	BARIUM	mg/l	✓		2	2.55	152	151	99.3	7.70E-03	0.18	2.0	2.0	-	-	-	-	-	-

TABLE 4-4

PREVALENCE TABLE
SITE-RELATED CHEMICALS IN ALLUVIAL AQUIFER GROUNDWATER

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

GROUP	CHEMICAL	UNITS	MONTROSE SRC	STAUFFER SRC	MCL	PRG	TOTAL ANALYSES	NUMBER DETECTS	PERCENT DETECTIONS	MINIMUM DETECTED VALUE	MAXIMUM DETECTED VALUE	MINIMUM DETECTION LIMIT	MAXIMUM DETECTION LIMIT	EXCEEDS MCL?	NUMBER DETECTS > MCL	NUMBER DETECTS > PRG (IF NO MCL)	NUMBER NDS > MCL	NUMBER NDS > PRG (IF NO MCL)	PERCENT DETECTIONS >MCL
METAL	BERYLLIUM	mg/l	✓	✓	4.E-03	0.0730	87	4	4.6	3.50E-04	0.021	5.00E-04	0.050	YES	1	-	36	-	1.1
METAL	BORON	mg/l			NE	7.30	71	71	100	0.17	14	-	-	-	-	1		-	-
METAL	BROMIDE	mg/l			NE	NE	36	19	52.8	0.061	13	0.25	25	-	-	-	-	-	-
METAL	CADMIUM	mg/l	✓	✓	5.E-03	0.0183	168	29	17.3	8.30E-05	7.40E-03	1.00E-03	0.10	YES	1	-	60	-	0.6
METAL	CALCIUM	mg/l	✓	✓	NE	NE	94	94	100	0.94	2,000	-	-	-	-	-	-	-	-
METAL	CHROMIUM	mg/l	✓	✓	0.1	NE	168	91	54.2	9.00E-04	4.3	2.00E-03	0.20	YES	7	-	1	-	4.2
METAL	COBALT	mg/l	✓	✓	NE	0.730	87	60	69.0	2.00E-04	0.14	1.00E-03	1.0	-	-	-	-	2	-
METAL	COPPER	mg/l	✓	✓	1.3	1.46	87	62	71.3	6.40E-04	0.22	0.0100	1.0	-	-	-	-	-	-
METAL	CYANIDE	mg/l	✓	✓	0.2	0.730	87	4	4.6	0.019	0.23	5.00E-03	0.025	YES	1	-	-	-	1.1
METAL	HEXAVALENT CHROMIUM	mg/l	✓	✓	NE	0.110	80	26	32.5	7.90E-04	5.1	2.00E-03	0.048		-	-	4	-	-
METAL	LEAD	mg/l	✓	✓	0.015	NE	168	32	19.0	1.10E-04	0.18	1.00E-03	0.10	YES	9	-	1	-	5.4
METAL	LITHIUM	mg/l			NE	0.730	36	33	91.7	0.11	1.7	0.050	0.25	-	-	6	-	-	-
METAL	MAGNESIUM	mg/l	✓	✓	NE	NE	94	93	98.9	0.038	3,500	0.020	0.020	-	-	-	-	-	-
METAL	MANGANESE	mg/l	✓	✓	NE	0.876	87	77	88.5	1.70E-03	20	1.00E-03	0.0100	-	-	33	-	-	-
METAL	MERCURY	mg/l	✓	✓	2.E-03	0.0109	128	2	1.6	5.80E-05	6.70E-04	2.00E-04	2.00E-04	-	-	-	-	-	-
METAL	MOLYBDENUM	mg/l	✓		NE	0.183	71	64	90.1	6.80E-04	0.50	0.020	1.0	-	-	3	-	3	-
METAL	NICKEL	mg/l	✓	✓	NE	0.730	87	68	78.2	1.90E-03	0.33	2.00E-03	1.0	-	-	-	-	2	-
METAL	NIOBIUM	ug/l			NE	NE	12	4	33.3	9.9	302	250	4,000	-	-	-	-	-	-
METAL	PALLADIUM	ug/l			NE	NE	12	12	100	3.5	114	-	-	-	-	-	-	-	-
METAL	PHOSPHORUS (WHITE)	mg/l	✓	✓	NE	0.000730	54	0	-	-	-	0.00005	0.1	-	-	-	-	14	-
METAL	PHOSPHORUS, TOTAL (AS P)	mg/l	✓	✓	NE	7.30E-04	127	84	66.1	0.014	3,100	0.040	2.5	-	-	84	-	43	-
METAL	PLATINUM	ug/l			NE	NE	12	1	8.3	6.8	6.8	1.0	100	-	-	-	-	-	-
METAL	POTASSIUM	mg/l	✓	✓	NE	NE	94	94	100	5.0	240	-	-	-	-	-	-	-	-
METAL	SELENIUM	mg/l	✓	✓	0.05	0.183	168	127	75.6	5.70E-04	0.074	2.00E-03	0.20	YES	1	-	1	-	0.6
METAL	SILICON	mg/l			NE	NE	11	11	100	29	45	-	-	-	-	-	-	-	-
METAL	SILVER	mg/l	✓	✓	NE	0.183	168	10	6.0	2.50E-05	1.10E-03	1.00E-03	0.10	-	-	-	-	-	-
METAL	STRONTIUM	mg/l			NE	21.9	36	36	100	0.69	47	-	-	-	-	7	-	-	-
METAL	THALLIUM	mg/l	✓	✓	2.E-03	2.41E-03	87	14	16.1	1.60E-04	4.80E-03	1.00E-03	0.10	YES	3	-	62	-	3.4
METAL	TIN	mg/l	✓	✓	NE	21.9	87	14	16.1	3.30E-03	0.023	0.0100	1.0	-	-	-	-	-	-
METAL	TITANIUM	mg/l		✓	NE	146	87	29	33.3	2.10E-03	0.47	5.00E-03	1.0	-	-	-	-	-	-
METAL	TUNGSTEN	ug/l			NE		12	11	91.7	21	220	10	10	-	-	-	-	-	-
METAL	URANIUM	ug/l			30	7.30	12	11	91.7	1.8	191	500	500	YES	5	-	1	-	41.7
METAL	VANADIUM	mg/l	✓	✓	NE	0.0365	87	70	80.5	5.10E-03	4.4	2.00E-03	0.20	-	-	45	-	1	-
METAL	ZINC	mg/l	✓	✓	NE	10.9	87	43	49.4	3.30E-03	0.81	0.020	2.0	-	-	-	-	-	-
METAL	ZIRCONIUM	ug/l			NE	NE	12	1	8.3	74	74	100	500	-	-	-	-	-	-
ORGANIC ACID	4-CHLOROBENZENESULFONIC ACID	ug/l	✓	✓	NE	NE	255	109	42.7	56	92,000	40	2,000	-	-	-	-	-	-
ORGANIC ACID	BENZENESULFONIC ACID	ug/l		✓	NE	NE	255	65	25.5	40	1,300,000	1.00E-03	1,000	-	-	-	-	-	-
ORGANIC ACID	DIETHYL PHOSPHORODITHIOIC ACID	ug/l		✓	NE	NE	253	79	31.2	40	2,400,000	1.00E-03	200	-	-	-	-	-	-
ORGANIC ACID	DIMETHYL PHOSPHORODITHIOIC ACID	ug/l		✓	NE	NE	253	70	27.7	100	4,500,000	1.00E-03	25,000	-	-	-	-	-	-
ORGANIC ACID	PHTHALIC ACID	ug/l		✓	NE	NE	267	64	24.0	12	4,700,000	1.00E-03	5,000	-	-	-	-	-	-
PCB	2,2',3,3',4,4',5,5'-OCTACHLOROBIPHENYL	ug/l			0.5	NE	6	4	66.7	5.50E-06	8.40E-06	5.40E-06	6.80E-06	-	-	-	-	-	-
PCB	2,2',3,3',5,5',6,6'-OCTACHLOROBIPHENYL	ug/l			0.5	NE	6	1	16.7	2.60E-06	2.60E-06	1.10E-06	5.70E-06	-	-	-	-	-	-
PCB	2,2'-DICHLOROBIPHENYL	ug/l	✓		0.5	NE	59	47	79.7	4.60E-05	3.7	9.90E-06	6.64E-04	YES	1	-	-	-	1.7
PCB	2,3'-DICHLOROBIPHENYL	ug/l	✓		0.5	NE	59	38	64.4	1.60E-05	0.46	6.20E-06	7.71E-04	-	-	-	-	-	-
PCB	2,3-DICHLOROBIPHENYL	ug/l	✓		0.5	NE	59	27	45.8	1.26E-05	0.025	5.70E-06	2.90E-04	-	-	-	-	-	-
PCB	2,4'-DICHLOROBIPHENYL	ug/l	✓		0.5	NE	59	38	64.4	1.72E-05	0.40	9.70E-06	3.20E-04	-	-	-	-	-	-
PCB	2,4-DICHLOROBIPHENYL	ug/l	✓		0.5	NE	59	30	50.8	1.27E-05	0.014	5.50E-06	1.50E-04	-	-	-	-	-	-
PCB	2,5-DICHLOROBIPHENYL	ug/l	✓		0.5	NE	59	37	62.7	2.40E-05	0.080	5.40E-06	1.60E-04	-	-	-	-	-	-
PCB	2,6-DICHLOROBIPHENYL	ug/l	✓		0.5	NE	59	26	44.1	1.67E-05	3.83E-03	4.80E-06	2.50E-04	-	-	-	-	-	-
PCB	233'4'-TETRA CB(56)	ug/l			0.5	NE	6	5	83.3	6.00E-06	1.31E-05	5.30E-06	5.30E-06	-	-	-	-	-	-
PCB	2-MONOCHLOROBIPHENYL	ug/l			0.5	NE	35	33	94.3	1.59E-05	0.42	5.90E-06	1.20E-05	-	-	-	-	-	-
PCB	3,3'-DICHLOROBIPHENYL	ug/l	✓		0.5	NE	59	25	42.4	3.43E-05	0.017	4.30E-06	6.30E-04	-	-	-	-	-	-
PCB	3,4 & 3,4'-DICHLOROBIPHENYL	ug/l	✓		0.5	NE	59	33	55.9	9.90E-06	0.22	9.30E-06	2.70E-04	-	-	-	-	-	-
PCB	3,4,4'-TRICHLOROBIPHENYL	ug/l			0.5	NE	6	3	50.0	1.02E-05	1.58E-05	8.20E-06	1.70E-05	-	-	-	-	-	-
PCB	3,5-DICHLOROBIPHENYL	ug/l	✓		0.5	NE	59	5	8.5	4.40E-05	0.037	4.20E-06	3.40E-04	-	-	-	-	-	-
PCB	4,4'-DICHLOROBIPHENYL	ug/l	✓		0.5	NE	59	22	37.3	1.30E-05	0.015	1.40E-05	5.70E-04	-	-	-	-	-	-
PCB	4-MONOCHLOROBIPHENYL	ug/l			0.5	NE	35	19	54.3	1.57E-05	0.012	5.00E-06	8.30E-03	-	-	-	-	-	-
PCB	AROCLOR-1016	ug/l	✓	✓	0.5	0.960	72	0	-	-	-	0.94	9.5	-	-	-	72	-	-
PCB	AROCLOR-1221	ug/l	✓	✓	0.5	NE	72	0	-	-	-	0.94	9.5	-	-	-	72	-	-
PCB	AROCLOR-1232	ug/l	✓	✓	0.5	NE	72	0	-	-	-	0.94	9.5	-	-	-	72	-	-
PCB	AROCLOR-1242	ug/l	✓	✓	0.5	NE	72	0	-	-	-	0.94	9.5	-	-	-	72	-	-

TABLE 4-4

PREVALENCE TABLE
SITE-RELATED CHEMICALS IN ALLUVIAL AQUIFER GROUNDWATER

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

GROUP	CHEMICAL	UNITS	MONTROSE SRC	STAUFFER SRC	MCL	PRG	TOTAL ANALYSES	NUMBER DETECTS	PERCENT DETECTIONS	MINIMUM DETECTED VALUE	MAXIMUM DETECTED VALUE	MINIMUM DETECTION LIMIT	MAXIMUM DETECTION LIMIT	EXCEEDS MCL?	NUMBER DETECTS > MCL	NUMBER DETECTS > PRG (IF NO MCL)	NUMBER NDS > MCL	NUMBER NDS > PRG (IF NO MCL)	PERCENT DETECTIONS >MCL
PCB	AROCLOR-1248	ug/l	✓	✓	0.5	NE	72	0	-	-	-	0.94	9.5	-	-	-	72	-	-
PCB	AROCLOR-1254	ug/l	✓	✓	0.5	0.0336	72	0	-	-	-	0.94	9.5	-	-	-	72	-	-
PCB	AROCLOR-1260	ug/l	✓	✓	0.5	NE	72	0	-	-	-	0.94	9.5	-	-	-	72	-	-
PCB	DECACHLOROBIPHENYL	ug/l			0.5	NE	7	4	57.1	2.00E-06	7.80E-06	3.00E-06	7.80E-06	-	-	-	-	-	-
PCB	PCB 002	ug/l			0.5	NE	34	29	85.3	4.00E-06	0.034	4.50E-06	8.30E-06	-	-	-	-	-	-
PCB	PCB 016	ug/l			0.5	NE	7	2	28.6	9.90E-06	5.50E-05	1.20E-05	5.00E-05	-	-	-	-	-	-
PCB	PCB 017	ug/l			0.5	NE	6	2	33.3	1.12E-05	1.38E-04	9.00E-06	4.20E-05	-	-	-	-	-	-
PCB	PCB 018 & 030	ug/l			0.5	NE	6	5	83.3	9.80E-06	3.03E-04	3.60E-05	3.60E-05	-	-	-	-	-	-
PCB	PCB 019	ug/l			0.5	NE	6	1	16.7	3.30E-05	3.30E-05	5.50E-06	3.60E-05	-	-	-	-	-	-
PCB	PCB 020 & 028	ug/l			0.5	NE	6	5	83.3	2.49E-05	6.16E-05	7.90E-05	7.90E-05	-	-	-	-	-	-
PCB	PCB 021 & 033	ug/l			0.5	NE	6	5	83.3	1.17E-05	4.07E-05	4.90E-05	4.90E-05	-	-	-	-	-	-
PCB	PCB 022	ug/l			0.5	NE	6	5	83.3	9.50E-06	2.46E-05	2.30E-05	2.30E-05	-	-	-	-	-	-
PCB	PCB 025	ug/l			0.5	NE	6	3	50.0	3.60E-06	7.60E-06	1.70E-06	1.60E-05	-	-	-	-	-	-
PCB	PCB 026 & 029	ug/l	✓		0.5	NE	6	6	100	4.10E-06	2.82E-05	-	-	-	-	-	-	-	-
PCB	PCB 031	ug/l			0.5	NE	6	6	100	1.85E-05	6.51E-05	-	-	-	-	-	-	-	-
PCB	PCB 032	ug/l			0.5	NE	6	2	33.3	5.20E-06	1.80E-05	5.70E-06	2.80E-05	-	-	-	-	-	-
PCB	PCB 040 & 041 & 071	ug/l			0.5	NE	6	3	50.0	1.03E-05	2.49E-05	3.50E-06	1.50E-05	-	-	-	-	-	-
PCB	PCB 042	ug/l			0.5	NE	6	2	33.3	5.70E-06	1.30E-05	2.90E-06	1.30E-05	-	-	-	-	-	-
PCB	PCB 044 & 047 & 065	ug/l			0.5	NE	6	5	83.3	4.44E-05	4.55E-04	1.00E-05	1.00E-05	-	-	-	-	-	-
PCB	PCB 045 & 051	ug/l			0.5	NE	6	5	83.3	7.40E-06	1.27E-04	3.10E-06	3.10E-06	-	-	-	-	-	-
PCB	PCB 048	ug/l			0.5	NE	6	1	16.7	1.10E-05	1.10E-05	2.50E-06	9.50E-06	-	-	-	-	-	-
PCB	PCB 049 & 069	ug/l			0.5	NE	6	6	100	7.80E-06	4.21E-05	-	-	-	-	-	-	-	-
PCB	PCB 050 & 053	ug/l			0.5	NE	6	2	33.3	5.60E-06	3.09E-05	2.40E-06	9.40E-06	-	-	-	-	-	-
PCB	PCB 052	ug/l			0.5	NE	6	6	100	1.76E-05	1.03E-04	-	-	-	-	-	-	-	-
PCB	PCB 058 & 062 & 075	ug/l			0.5	NE	6	1	16.7	1.31E-05	1.31E-05	1.80E-06	7.10E-06	-	-	-	-	-	-
PCB	PCB 060	ug/l			0.5	NE	6	4	66.7	4.40E-06	1.08E-05	3.90E-06	6.10E-06	-	-	-	-	-	-
PCB	PCB 061 & 070 & 074 & 076	ug/l			0.5	NE	6	6	100	2.71E-05	7.94E-05	-	-	-	-	-	-	-	-
PCB	PCB 064	ug/l			0.5	NE	6	6	100	4.60E-06	2.80E-05	-	-	-	-	-	-	-	-
PCB	PCB 066	ug/l			0.5	NE	6	5	83.3	1.14E-05	3.20E-05	2.20E-05	2.20E-05	-	-	-	-	-	-
PCB	PCB 068	ug/l			0.5	NE	6	4	66.7	5.93E-05	8.49E-05	1.30E-06	3.30E-06	-	-	-	-	-	-
PCB	PCB 077	ug/l	✓	✓	0.5	NE	59	9	15.3	1.30E-06	2.00E-04	1.10E-06	1.30E-03	-	-	-	-	-	-
PCB	PCB 081	ug/l	✓	✓	0.5	NE	59	1	1.7	1.15E-05	1.15E-05	1.10E-06	1.40E-03	-	-	-	-	-	-
PCB	PCB 083 & 099	ug/l			0.5	NE	6	5	83.3	8.00E-06	3.17E-05	1.60E-05	1.60E-05	-	-	-	-	-	-
PCB	PCB 084	ug/l			0.5	NE	6	2	33.3	1.60E-05	2.03E-05	4.20E-06	1.60E-05	-	-	-	-	-	-
PCB	PCB 086 & 087 & 097 & 109 & 119 & 125	ug/l			0.5	NE	6	6	100	1.82E-05	5.24E-05	-	-	-	-	-	-	-	-
PCB	PCB 090 & 101 & 113	ug/l			0.5	NE	6	6	100	4.28E-05	1.00E-04	-	-	-	-	-	-	-	-
PCB	PCB 092	ug/l			0.5	NE	6	2	33.3	1.45E-05	1.66E-05	6.60E-06	1.50E-05	-	-	-	-	-	-
PCB	PCB 095	ug/l			0.5	NE	6	6	100	3.18E-05	9.25E-05	-	-	-	-	-	-	-	-
PCB	PCB 105	ug/l	✓	✓	0.5	NE	59	15	25.4	4.70E-06	5.08E-04	7.00E-07	5.40E-05	-	-	-	-	-	-
PCB	PCB 110 & 115	ug/l			0.5	NE	6	6	100	3.60E-05	6.62E-05	-	-	-	-	-	-	-	-
PCB	PCB 114	ug/l	✓	✓	0.5	NE	59	4	6.8	1.60E-06	4.10E-05	7.00E-07	2.40E-05	-	-	-	-	-	-
PCB	PCB 118	ug/l	✓	✓	0.5	NE	59	23	39.0	1.84E-05	1.76E-03	7.00E-07	8.70E-05	-	-	-	-	-	-
PCB	PCB 126	ug/l	✓	✓	0.5	NE	59	1	1.7	1.13E-04	1.13E-04	6.60E-07	2.30E-05	-	-	-	-	-	-
PCB	PCB 128 & 166	ug/l			0.5	NE	7	3	42.9	6.90E-06	8.90E-06	2.80E-06	5.90E-06	-	-	-	-	-	-
PCB	PCB 129 & 138 & 163	ug/l			0.5	NE	6	6	100	6.90E-05	1.03E-04	-	-	-	-	-	-	-	-
PCB	PCB 130	ug/l			0.5	NE	6	1	16.7	2.80E-06	2.80E-06	2.30E-06	5.30E-06	-	-	-	-	-	-
PCB	PCB 132	ug/l			0.5	NE	6	4	66.7	1.95E-05	3.38E-05	1.90E-05	2.70E-05	-	-	-	-	-	-
PCB	PCB 134 & 143	ug/l			0.5	NE	11	2	18.2	3.60E-06	4.10E-06	9.00E-07	5.10E-06	-	-	-	-	-	-
PCB	PCB 135 & 151	ug/l			0.5	NE	6	6	100	2.50E-05	4.68E-05	-	-	-	-	-	-	-	-
PCB	PCB 136	ug/l			0.5	NE	6	4	66.7	1.00E-05	1.99E-05	8.50E-06	1.10E-05	-	-	-	-	-	-
PCB	PCB 137	ug/l			0.5	NE	6	1	16.7	5.40E-06	5.40E-06	3.60E-06	9.30E-06	-	-	-	-	-	-
PCB	PCB 141	ug/l			0.5	NE	6	4	66.7	1.52E-05	2.53E-05	1.70E-05	1.80E-05	-	-	-	-	-	-
PCB	PCB 144	ug/l			0.5	NE	6	3	50.0	5.50E-06	7.80E-06	4.00E-06	5.50E-06	-	-	-	-	-	-
PCB	PCB 146	ug/l			0.5	NE	6	4	66.7	9.90E-06	1.52E-05	6.90E-06	1.10E-05	-	-	-	-	-	-
PCB	PCB 147 & 149	ug/l			0.5	NE	6	5	83.3	5.10E-05	9.96E-05	5.80E-05	5.80E-05	-	-	-	-	-	-
PCB	PCB 153 & 168	ug/l			0.5	NE	6	6	100	5.86E-05	1.00E-04	-	-	-	-	-	-	-	-
PCB	PCB 156 & 157	ug/l	✓		0.5	NE	59	14	23.7	7.40E-06	3.23E-03	4.00E-07	1.60E-05	-	-	-	-	-	-
PCB	PCB 158	ug/l			0.5	NE	6	2	33.3	6.60E-06	8.50E-06	2.10E-06	8.20E-06	-	-	-	-	-	-
PCB	PCB 164	ug/l			0.5	NE	6	2	33.3	6.70E-06	7.70E-06	1.20E-06	3.10E-06	-	-	-	-	-	-
PCB	PCB 167	ug/l	✓	✓	0.5	NE	59	17	28.8	3.07E-06	1.39E-03	4.00E-07	1.70E-05	-	-	-	-	-	-
PCB	PCB 170	ug/l			0.5	NE	35	8	22.9	1.45E-05	2.61E-05	5.00E-07	2.10E-05	-	-	-	-	-	-

TABLE 4-4

PREVALENCE TABLE
SITE-RELATED CHEMICALS IN ALLUVIAL AQUIFER GROUNDWATER

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

GROUP	CHEMICAL	UNITS	MONTROSE SRC	STAUFFER SRC	MCL	PRG	TOTAL ANALYSES	NUMBER DETECTS	PERCENT DETECTIONS	MINIMUM DETECTED VALUE	MAXIMUM DETECTED VALUE	MINIMUM DETECTION LIMIT	MAXIMUM DETECTION LIMIT	EXCEEDS MCL?	NUMBER DETECTS > MCL	NUMBER DETECTS > PRG (IF NO MCL)	NUMBER NDS > MCL	NUMBER NDS > PRG (IF NO MCL)	PERCENT DETECTIONS >MCL
PCB	PCB 171 & 173	ug/l			0.5	NE	6	3	50.0	5.40E-06	9.20E-06	2.70E-06	7.10E-06	-	-	-	-	-	-
PCB	PCB 172	ug/l			0.5	NE	6	2	33.3	3.40E-06	5.60E-06	2.80E-06	4.70E-06	-	-	-	-	-	-
PCB	PCB 174	ug/l			0.5	NE	6	6	100	1.36E-05	2.40E-05	-	-	-	-	-	-	-	-
PCB	PCB 176	ug/l			0.5	NE	6	2	33.3	2.90E-06	4.00E-06	5.90E-07	4.30E-06	-	-	-	-	-	-
PCB	PCB 177	ug/l			0.5	NE	6	5	83.3	9.70E-06	1.46E-05	9.70E-06	9.70E-06	-	-	-	-	-	-
PCB	PCB 178	ug/l			0.5	NE	6	1	16.7	4.00E-06	4.00E-06	2.30E-06	4.60E-06	-	-	-	-	-	-
PCB	PCB 179	ug/l			0.5	NE	6	3	50.0	7.60E-06	1.32E-05	5.90E-06	9.90E-06	-	-	-	-	-	-
PCB	PCB 180 & 193	ug/l			0.5	NE	8	8	100	2.81E-05	5.38E-05	-	-	-	-	-	-	-	-
PCB	PCB 183	ug/l			0.5	NE	6	4	66.7	1.24E-05	2.03E-05	1.10E-05	1.10E-05	-	-	-	-	-	-
PCB	PCB 187	ug/l			0.5	NE	6	6	100	1.78E-05	3.02E-05	-	-	-	-	-	-	-	-
PCB	PCB 189	ug/l	✓	✓	0.5	NE	57	8	14.0	1.27E-06	9.66E-04	8.50E-07	1.20E-05	-	-	-	-	-	-
PCB	PCB 190	ug/l			0.5	NE	6	2	33.3	4.90E-06	5.20E-06	6.60E-07	4.40E-06	-	-	-	-	-	-
PCB	PCB 196	ug/l			0.5	NE	6	1	16.7	5.00E-06	5.00E-06	1.50E-06	7.60E-06	-	-	-	-	-	-
PCB	PCB 198 & 199	ug/l			0.5	NE	8	4	50.0	6.30E-06	8.40E-06	9.30E-07	7.60E-06	-	-	-	-	-	-
PCB	PCB 203	ug/l			0.5	NE	6	2	33.3	5.90E-06	6.40E-06	1.40E-06	6.80E-06	-	-	-	-	-	-
PESTICIDE	2,4'-DDD	ug/l	✓	✓	NE	NE	190	3	1.6	0.022	0.15	0.094	470	-	-	-	-	-	-
PESTICIDE	2,4'-DDE	ug/l	✓	✓	NE	NE	201	9	4.5	0.034	1.2	0.050	470	-	-	-	-	-	-
PESTICIDE	2,4'-DDT	ug/l	✓		NE	NE	190	2	1.1	0.032	0.15	0.094	470	-	-	-	-	-	-
PESTICIDE	4,4'-DDD	ug/l	✓	✓	NE	0.280	275	5	1.8	0.040	0.42	0.050	470	-	-	-	-	-	-
PESTICIDE	4,4'-DDE	ug/l	✓	✓	NE	0.198	275	6	2.2	0.020	0.31	0.050	470	-	-	-	-	-	-
PESTICIDE	4,4'-DDT	ug/l	✓	✓	NE	0.198	276	20	7.2	0.020	780	0.050	470	-	-	-	-	-	-
PESTICIDE	ALPHA-BHC	ug/l	✓	✓	NE	0.0107	276	185	67.0	0.020	1,300	0.050	48	-	-	-	-	-	-
PESTICIDE	ALPHA-CHLORDANE	ug/l			NE	NE	27	4	14.8	0.020	0.19	0.050	0.060	-	-	-	-	-	-
PESTICIDE	AZINPHOS-METHYL	ug/l			NE	NE	71	2	2.8	0.47	1.9	0.94	240	-	-	-	-	-	-
PESTICIDE	BETA-BHC	ug/l	✓	✓	NE	0.0374	275	194	70.5	0.040	120	0.050	470	-	-	-	-	-	-
PESTICIDE	CARBOPHENOTHION (TRITHION)	ug/l		✓	NE	NE	89	4	4.5	0.11	56	0.47	52	-	-	-	-	-	-
PESTICIDE	CHLORDANE	ug/l			2	0.192	275	0	-	-	-	0.5	4700	-	-	-	97	-	-
PESTICIDE	COUMAPHOS	ug/l			NE	NE	71	2	2.8	0.13	0.60	0.50	240	-	-	-	-	-	-
PESTICIDE	DELTA-BHC	ug/l	✓	✓	NE	NE	275	175	63.6	0.020	35	0.050	940	-	-	-	-	-	-
PESTICIDE	DEMETON	ug/l			NE	1.46	59	1	1.7	1.0	1.0	0.47	120	-	-	-	-	-	-
PESTICIDE	DEMETON-O	ug/l			NE	NE	12	1	8.3	0.47	0.47	1.0	1.0	-	-	-	-	-	-
PESTICIDE	DIAZINON	ug/l			NE	32.9	71	1	1.4	0.22	0.22	0.47	120	-	-	-	-	-	-
PESTICIDE	DIELDRIN	ug/l	✓	✓	NE	4.20E-03	275	5	1.8	0.040	0.86	0.050	470	-	-	-	-	-	-
PESTICIDE	DIMETHOATE	ug/l			NE	7.30	71	4	5.6	0.24	0.90	0.50	240	-	-	-	-	-	-
PESTICIDE	ENDOSULFAN I	ug/l	✓	✓	NE	219	275	2	0.7	0.030	0.18	0.050	470	-	-	-	-	-	-
PESTICIDE	ENDOSULFAN II	ug/l			NE	219	275	3	1.1	0.040	0.20	0.050	470	-	-	-	-	-	-
PESTICIDE	ENDOSULFAN SULFATE	ug/l	✓	✓	NE	NE	275	1	0.4	0.26	0.26	0.050	940	-	-	-	-	-	-
PESTICIDE	ENDRIN	ug/l	✓	✓	2	11.0	275	2	0.7	0.080	0.24	0.050	470	-	-	-	24	-	-
PESTICIDE	ENDRIN ALDEHYDE	ug/l	✓	✓	NE	NE	275	2	0.7	0.040	0.060	0.050	470	-	-	-	-	-	-
PESTICIDE	ENDRIN KETONE	ug/l			NE	NE	275	5	1.8	0.030	5.6	0.050	470	-	-	-	-	-	-
PESTICIDE	ETHOPROP	ug/l			NE	NE	71	12	16.9	0.14	1.7	0.47	120	-	-	-	-	-	-
PESTICIDE	ETHYL PARATHION	ug/l			NE	219	71	1	1.4	0.34	0.34	0.47	120	-	-	-	-	-	-
PESTICIDE	GAMMA-BHC (LINDANE)	ug/l	✓	✓	0.2	0.0517	275	99	36.0	0.028	780	0.050	100	YES	66	-	56	-	24.0
PESTICIDE	GAMMA-CHLORDANE	ug/l			NE	NE	27	7	25.9	0.020	0.084	0.050	0.060	-	-	-	-	-	-
PESTICIDE	HEPTACHLOR	ug/l			0.4	0.0149	275	4	1.5	0.020	0.090	0.050	470	-	-	-	79	-	-
PESTICIDE	HEPTACHLOR EPOXIDE	ug/l	✓	✓	0.2	7.39E-03	275	0	-	-	-	0.05	470	-	-	-	90	-	-
PESTICIDE	METHOXYCHLOR	ug/l			40	183	275	3	1.1	0.040	0.060	0.094	470	-	-	-	2	-	-
PESTICIDE	METHYL CARBOPHENOTHION	ug/l		✓	NE	NE	73	3	4.1	0.15	0.16	0.47	120	-	-	-	-	-	-
PESTICIDE	NALED	ug/l			NE	73.0	71	7	9.9	0.28	38	0.94	240	-	-	-	-	-	-
PESTICIDE	O,O,O-TRIETHYLPHOSPHOROTHIOATE	ug/l			NE	NE	71	15	21.1	0.38	130	0.47	120	-	-	-	-	-	-
PESTICIDE	PHORATE	ug/l			NE	7.30	71	5	7.0	0.58	6.5	0.47	120	-	-	-	-	-	-
PESTICIDE	SULFOTEPP	ug/l			NE	18.3	71	4	5.6	0.63	2.1	0.47	120	-	-	-	-	-	-
PESTICIDE	THIONAZIN	ug/l			NE	NE	59	2	3.4	0.55	0.73	0.47	120	-	-	-	-	-	-
PESTICIDE	TOXAPHENE	ug/l			3	0.0611	275	0	-	-	-	2	24000	-	-	-	264		-
PESTICIDES	ALDRIN	ug/l	✓	✓	NE	0.00395	275	0	-	-	-	0.05	470	-	-	-	-	275	-
PESTICIDES	CHLORPYRIFOS	ug/l			NE	110	71	0	-	-	-	0.47	120	-	-	-	-	1	-
PESTICIDES	DICHLORVOS	ug/l			NE	0.232	71	0	-	-	-	0.47	120	-	-	-	-	71	-
PESTICIDES	DISULFOTON	ug/l			NE	1.46	71	0	-	-	-	0.47	120	-	-	-	-	7	-
PESTICIDES	EPN	ug/l			NE	0.365	71	0	-	-	-	0.47	120	-	-	-	-	71	-
PESTICIDES	ETHION	ug/l			NE	18.3	59	0	-	-	-	0.47	120	-	-	-	-	3	-
PESTICIDES	MERPHOS	ug/l			NE	1.10	71	0	-	-	-	0.47	120	-	-	-	-	19	-

TABLE 4-4

PREVALENCE TABLE
SITE-RELATED CHEMICALS IN ALLUVIAL AQUIFER GROUNDWATER

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

GROUP	CHEMICAL	UNITS	MONTROSE SRC	STAUFFER SRC	MCL	PRG	TOTAL ANALYSES	NUMBER DETECTS	PERCENT DETECTIONS	MINIMUM DETECTED VALUE	MAXIMUM DETECTED VALUE	MINIMUM DETECTION LIMIT	MAXIMUM DETECTION LIMIT	EXCEEDS MCL?	NUMBER DETECTS > MCL	NUMBER DETECTS > PRG (IF NO MCL)	NUMBER NDS > MCL	NUMBER NDS > PRG (IF NO MCL)	PERCENT DETECTIONS >MCL
PESTICIDES	METHYL PARATHION	ug/l			NE	9.13	71	0	-	-	-	0.47	120	-	-	-	-	4	-
PESTICIDES	STIROPHOS	ug/l			NE	2.80	30	0	-	-	-	0.95	240	-	-	-	-	4	-
PESTICIDES	TETRACHLORVINPHOS	ug/l			NE	2.80	41	0	-	-	-	0.94	4.9	-	-	-	-	3	-
RADIONUCLIDES	ACTINIUM-228	pci/l			NE	23.9	12	0	-	-	-	55	85	-	-	-	-	12	-
RADIONUCLIDES	BISMUTH-210	pci/l			NE	5.34	12	0	-	-	-	210	310	-	-	-	-	12	-
RADIONUCLIDES	BISMUTH-212	pci/l			NE	67.1	12	0	-	-	-	92	130	-	-	-	-	12	-
RADIONUCLIDES	BISMUTH-214	pci/l			NE	248	12	8	66.7	76	155	40	50	-	-	-	-	-	-
RADIONUCLIDES	COBALT-60	pci/l			NE	3.03	12	0	-	-	-	10	23	-	-	-	-	12	-
RADIONUCLIDES	GROSS ALPHA	pci/l			15	NE	12	0	-	-	-	25	630	-	-	-	12	-	-
RADIONUCLIDES	GROSS BETA	pci/l			NE	NE	12	1	8.3	19	19	18	450	-	-	-	-	-	-
RADIONUCLIDES	LEAD-210	pci/l			NE	0.0541	12	0	-	-	-	210	310	-	-	-	-	12	-
RADIONUCLIDES	LEAD-212	pci/l			NE	1.90	12	0	-	-	-	20	26	-	-	-	-	12	-
RADIONUCLIDES	LEAD-214	pci/l			NE	138	12	10	83.3	43	169	35	36	-	-	1	-	-	-
RADIONUCLIDES	POLONIUM-210	pci/l			NE	0.126	12	0	-	-	-	210	310	-	-	-	-	12	-
RADIONUCLIDES	POLONIUM-214	pci/l			NE	NE	12	8	66.7	76	155	40	50	-	-	-	-	-	-
RADIONUCLIDES	POLONIUM-218	pci/l			NE	NE	12	10	83.3	0.26	1.0	0.27	0.41	-	-	-	-	-	-
RADIONUCLIDES	POTASSIUM-40	pci/l			NE	1.93	12	0	-	-	-	170	300	-	-	-	-	12	-
RADIONUCLIDES	PROTACTINIUM-234	pci/l			NE	18.6	12	0	-	-	-	31	43	-	-	-	-	12	-
RADIONUCLIDES	RADIUM 226	pci/l			NE	8.23E-04	12	10	83.3	0.26	1.0	0.27	0.41	-	-	10	-	2	-
RADIONUCLIDES	RADIUM 228	pci/l			NE	0.0458	12	9	75.0	0.70	3.0	0.70	0.72	-	-	9	-	3	-
RADIONUCLIDES	RADIUM-223	pci/l			5	0.200	12	0	-	-	-	110	140	-	-	-	12	-	-
RADIONUCLIDES	RADIUM-224	pci/l			5	9.50E-04	12	0	-	-	-	220	310	-	-	-	12	-	-
RADIONUCLIDES	THORIUM-228	pci/l			NE	0.445	12	1	8.3	0.23	0.23	0.12	0.56	-	-	-	-	1	-
RADIONUCLIDES	THORIUM-234	pci/l			NE	2.06	12	0	-	-	-	110	160	-	-	-		12	-
RADIONUCLIDES	URANIUM-234	pci/l			NE	0.674	12	12	100	1.4	92	-	-	-	-	12	-	-	-
RADIONUCLIDES	URANIUM-235	pci/l			NE	0.684	12	9	75.0	0.14	3.8	0.083	0.17	-	-	4	-	-	-
RADIONUCLIDES	URANIUM-238	pci/l			NE	0.744	12	12	100	0.86	67	-	-	-	-	12	-	-	-
SVOC	1,1'-SULFONYBIS BENZENE	ug/l		✓	NE	109	112	1	0.9	4.8	4.8	9.4	410	-	-		-	2	-
SVOC	1,2,4,5-TETRACHLOROBENZENE	ug/l	✓	✓	NE	11.0	112	6	5.4	2.3	69	9.4	410	-	-	2	-	18	-
SVOC	1,2,4-TRICHLOROBENZENE	ug/l	✓	✓	70	7.16	502	175	34.9	0.38	950	1.0	25,000	YES	55	-	75	-	11.0
SVOC	1,4-DIOXANE	ug/l			NE	6.11	59	29	49.2	0.37	21	0.94	25	-	-	7	-	1	-
SVOC	1-CHLORO-4-(METHYLSULFONYL) BENZENE	ug/l		✓	NE	NE	101	10	9.9	3.2	110	9.4	410	-	-	-	-	-	-
SVOC	2,2'-/4,4'-DICHLOROBENZIL	ug/l	✓		NE	NE	113	2	1.8	2.3	5.2	9.4	410	-	-	-	-	-	-
SVOC	2,4,5-TRICHLOROPHENOL	ug/l	✓	✓	NE	3650	171	13	7.6	2.7	110	10	940	-	-	-	-	-	-
SVOC	2,4,6-TRICHLOROPHENOL	ug/l	✓	✓	NE	3.65	184	22	12.0	2.5	77	10	940	-	-	21	-	162	-
SVOC	2,4-DICHLOROPHENOL	ug/l	✓	✓	NE	110	184	44	23.9	2.2	220	9.4	470	-	-	1	-	4	-
SVOC	2,4-DIMETHYLPHENOL	ug/l		✓	NE	730	184	0	-	-	-	10	940	-	-	-	-	3	-
SVOC	2,4-DINITROPHENOL	ug/l			NE	73.0	184	0	-	-	-	19	1000	-	-	-	-	32	-
SVOC	2,4-DINITROTOLUENE	ug/l			NE	73.0	184	0	-	-	-	9.4	470	-	-	-	-	10	-
SVOC	2,6-DINITROTOLUENE	ug/l			NE	36.5	184	0	-	-	-	9.4	470	-	-	-	-	23	-
SVOC	2-CHLORONAPHTHALENE	ug/l			NE	487	184	1	0.5	3.0	3.0	9.4	470	-	-	-	-	-	-
SVOC	2-CHLOROPHENOL	ug/l	✓	✓	NE	30.4	184	62	33.7	2.5	590	9.4	470	-	-	36	-	10	-
SVOC	2-METHYLNAPHTHALENE	ug/l			NE	NE	171	1	0.6	3.1	3.1	9.4	470	-	-	-	-	-	-
SVOC	2-METHYLPHENOL	ug/l			NE	1825	171	3	1.8	2.2	5.0	9.4	470	-	-	-	-	-	-
SVOC	2-NITROANILINE	ug/l			NE	110	171	0	-	-	-	10	940	-	-	-	-	9	-
SVOC	3,3'-DICHLOROBENZIDINE	ug/l			NE	0.149	183	0	-	-	-	10	940	-	-	-	-	183	-
SVOC	3-NITROANILINE	ug/l			NE	3.20	171	0	-	-	-	10	940	-	-	-	-	171	-
SVOC	4,6-DINITRO-2-METHYLPHENOL	ug/l			NE	3.65	173	0	-	-	-	10	1000	-	-	-	-	173	-
SVOC	4-CHLOROANILINE	ug/l			NE	146	171	0	-	-	-	9.4	470	-	-	-	-	4	-
SVOC	4-CHLOROBENZENETHIOL	ug/l		✓	NE	NE	113	6	5.3	140	6,800	10	8,000	-	-	-	-	-	-
SVOC	4-CHLOROPHENYL METHYL SULFIDE	ug/l		✓	NE	NE	158	12	7.6	2.9	64	0.10	10,000	-	-	-	-	-	-
SVOC	4-METHYLPHENOL	ug/l			NE	183	156	2	1.3	2.4	3.2	9.4	470	-	-	-	-	4	-
SVOC	4-NITROANILINE	ug/l			NE	3.20	171	0	-	-	-	10	940	-	-	-	-	171	-
SVOC	4-NITROPHENOL	ug/l	✓		NE	NE	184	1	0.5	5.0	5.0	15	940	-	-	-	-	-	-
SVOC	ACENAPHTHENE	ug/l			NE	365	196	0	-	-	-	5	470	-	-	-	-	3	-
SVOC	ANILINE	ug/l			NE	11.8	171	3	1.8	5.0	8.0	9.4	470	-	-	-	-	28	-
SVOC	AZOBENZENE	ug/l			NE	0.611	171	0	-	-	-	10	940	-	-	-	-	171	-
SVOC	BENZIDINE	ug/l			NE	0.000290	52	0	-	-	-	19	940	-	-	-	-	52	-
SVOC	BENZO(A)ANTHRACENE	ug/l		✓	NE	0.0921	196	0	-	-	-	5	470	-	-	-	-	196	-
SVOC	BENZO(A)PYRENE	ug/l	✓	✓	0.2	9.21E-03	168	0	-	-	-	0.02	470	-	-	-	128		-
SVOC	BENZO(B)FLUORANTHENE	ug/l		✓	NE	0.0921	196	0	-	-	-	5	470	-	-	-	-	196	-

TABLE 4-4

PREVALENCE TABLE
SITE-RELATED CHEMICALS IN ALLUVIAL AQUIFER GROUNDWATER

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

GROUP	CHEMICAL	UNITS	MONTROSE SRC	STAUFFER SRC	MCL	PRG	TOTAL ANALYSES	NUMBER DETECTS	PERCENT DETECTIONS	MINIMUM DETECTED VALUE	MAXIMUM DETECTED VALUE	MINIMUM DETECTION LIMIT	MAXIMUM DETECTION LIMIT	EXCEEDS MCL?	NUMBER DETECTS > MCL	NUMBER DETECTS > PRG (IF NO MCL)	NUMBER NDS > MCL	NUMBER NDS > PRG (IF NO MCL)	PERCENT DETECTIONS >MCL
SVOC	BENZO(K)FLUORANTHENE	ug/l		✓	NE	0.921	196	0	-	-	-	5	470	-	-	-	-	196	-
SVOC	BENZOIC ACID	ug/l	✓	✓	NE	145979	172	31	18.0	2.5	780	19	940	-	-	-	-	-	-
SVOC	BENZYL ALCOHOL	ug/l			NE	10950	171	5	2.9	2.5	45	10	940	-	-	-	-	-	-
SVOC	BIS(2-CHLOROETHYL)ETHER	ug/l			NE	0.0102	184	0	-	-	-	9.4	470	-	-	-	-	184	-
SVOC	BIS(2-CHLOROISOPROPYL)ETHER	ug/l			NE	0.274	184	0	-	-	-	9.4	470	-	-	-	-	184	-
SVOC	BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	✓	✓	6	4.80	184	8	4.3	2.7	6.7	10	2,400	YES	2	-	176	-	1.1
SVOC	BIS(4-CHLOROPHENYL)DISULFIDE	ug/l		✓	NE	NE	113	11	9.7	10	3,900	9.4	410	-	-	-	-	-	-
SVOC	BIS-(4-CHLOROPHENYL)METHANONE	ug/l	✓	✓	NE	1095	101	5	5.0	2.8	13	9.4	410	-	-	-	-	-	-
SVOC	CARBAZOLE	ug/l			NE	3.36	15	0	-	-	-	10	10	-	-	-	-	15	-
SVOC	CHRYSENE	ug/l	✓	✓	NE	9.21	196	0	-	-	-	5	470	-	-	-	-	184	-
SVOC	DIBENZO(A,H)ANTHRACENE	ug/l		✓	NE	0.00921	196	0	-	-	-	5	940	-	-	-	-	196	-
SVOC	DIBENZOFURAN	ug/l			NE	12.2	171	0	-	-	-	9.4	470	-	-	-	-	28	-
SVOC	FLUORENE	ug/l			NE	243	184	0	-	-	-	9.4	470	-	-	-	-	3	-
SVOC	HEXACHLOROBENZENE	ug/l	✓	✓	1	0.0420	156	2	1.3	0.018	0.019	0.10	470	-	-	-	116	-	-
SVOC	HEXACHLOROCYCLOPENTADIENE	ug/l			50	219	184	0	-	-	-	10	1000	-	-	-	32		-
SVOC	HEXACHLOROETHANE	ug/l		✓	NE	4.80	184	0	-	-	-	9.4	470	-	-	-	-	184	-
SVOC	INDENO(1,2,3-CD)PYRENE	ug/l		✓	NE	0.0921	196	0	-	-	-	5	940	-	-	-	-	196	-
SVOC	ISOPHORONE	ug/l			NE	70.8	184	0	-	-	-	9.4	470	-	-	-	-	10	-
SVOC	NITROBENZENE	ug/l			NE	3.40	184	0	-	-	-	10	940	-	-	-	-	184	-
SVOC	N-NITROSODIMETHYLAMINE	ug/l			NE	0.00132	105	1	1.0	4.0	4.0	10	820	-	-	1	-	104	-
SVOC	N-NITROSO-DI-N-PROPYLAMINE	ug/l			NE	9.60E-03	184	1	0.5	8.0	8.0	9.4	470	-	-	1	-	183	-
SVOC	N-NITROSODIPHENYLAMINE	ug/l			NE	13.7	184	0	-	-	-	9.4	470	-	-	-	-	34	-
SVOC	P-CHLOROPHENYL SULFONE	ug/l		✓	NE	183	113	6	5.3	5.0	21	9.4	410	-	-	-	-	2	-
SVOC	PENTACHLOROBENZENE	ug/l	✓	✓	NE	29.2	112	0	-	-	-	9.4	410	-	-	-	-	13	-
SVOC	PENTACHLOROPHENOL	ug/l	✓		1	0.560	155	22	14.2	6.80E-03	3.1	0.20	940	YES	2	-	129	-	1.3
SVOC	PHENOL	ug/l	✓	✓	NE	10950	185	53	28.6	2.4	4,400	9.4	470	-	-	-	-	-	-
SVOC	PHENYL DISULFIDE	ug/l		✓	NE	NE	112	13	11.6	3.8	520	9.4	410	-	-	-	-	-	-
SVOC	PYRENE	ug/l	✓	✓	NE	183	196	0	-	-	-	5	470	-	-	-	-	4	-
SVOC	PYRIDINE	ug/l		✓	NE	36.5	116	1	0.9	17	17	10	820	-	-	-	-	17	-
SVOC	THIOPHENOL	ug/l		✓	NE	NE	113	6	5.3	11	160	10	8,200	-	-	-	-	-	-
TPH	DRO (C8-C24)	mg/l	✓	✓	NE	NE	18	16	88.9	0.10	25	0.50	0.50	-	-	-	-	-	-
TPH	EFH (C8 - C40)	mg/l	✓	✓	NE	NE	75	44	58.7	0.045	63	0.47	0.50	-	-	-	-	-	-
TPH	METHANOL	ug/l		✓	NE	18250	62	10	16.1	290	4,000,000	500	5,000	-	-	3	-	-	-
TPH	VOLATILE FUEL HYDROCARBONS (C6-C12)	mg/l	✓	✓	NE	NE	75	59	78.7	0.025	1,500	0.050	0.050	-	-	-	-	-	-
VOC	1,1,1,2-TETRACHLOROETHANE	ug/l	✓		NE	0.432	329					1	25000	-	-	-	-	329	-
VOC	1,1,1-TRICHLOROETHANE	ug/l			200	3172	329	0	-	-	-	1	10000	-	-	-	30	-	-
VOC	1,1,2,2-TETRACHLOROETHANE	ug/l	✓		NE	0.0553	329	0	-	-	-	1	10000	-	-	-		329	-
VOC	1,1,2-TRICHLOROETHANE	ug/l	✓		5	0.200	329	16	4.9	0.41	34	1.0	10,000	YES	7	-	90	-	2.1
VOC	1,1-DICHLOROETHANE	ug/l	✓		NE	811	329	143	43.5	0.29	370	1.0	10,000	-	-	-	-	21	-
VOC	1,1-DICHLOROETHENE	ug/l	✓		7	339	329	22	6.7	0.28	8.1	1.0	25,000	YES	1	-	95	-	0.3
VOC	1,1-DICHLOROPROPENE	ug/l	✓		NE	NE	329	12	3.6	0.38	22	1.0	10,000	-	-	-	-	-	-
VOC	1,2,3-TRICHLOROBENZENE	ug/l	✓	✓	NE	NE	329	85	25.8	0.34	600	1.0	25,000	-	-	-	-	-	-
VOC	1,2,3-TRICHLOROPROPANE	ug/l	✓		NE	5.60E-03	329	1	0.3	13	13	1.0	50,000	-	-	1	-	328	-
VOC	1,2,4-TRIMETHYLBENZENE	ug/l	✓	✓	NE	12.3	329	9	2.7	0.32	220	1.0	10,000	-	-	1	-	84	-
VOC	1,2-DIBROMO-3-CHLOROPROPANE	ug/l	✓		0.2	0.0476	263	22	8.4	3.20E-03	33	5.00E-03	25,000	YES	7	-	203	-	2.7
VOC	1,2-DIBROMOETHANE	ug/l			0.05	5.60E-03	216	2	0.9	8.60E-03	112	0.0100	10,000	YES	1	-	197	-	0.5
VOC	1,2-DICHLOROBENZENE	ug/l	✓	✓	600	370	502	266	53.0	0.54	36,000	1.0	10,000	YES	64	-	10	-	12.7
VOC	1,2-DICHLOROETHANE	ug/l	✓		5	0.123	329	90	27.4	0.28	230	1.0	10,000	YES	48	-	69	-	14.6
VOC	1,2-DICHLOROPROPANE	ug/l			5	0.165	329	2	0.6	0.37	21	1.0	10,000	YES	1	-	94	-	0.3
VOC	1,3,5-TRICHLOROBENZENE	ug/l	✓	✓	NE	NE	138	25	18.1	0.16	4.1	2.0	10,000	-	-	-	-	-	-
VOC	1,3,5-TRIMETHYLBENZENE	ug/l	✓	✓	NE	12.3	329	3	0.9	0.41	180	1.0	10,000	-	-	1	-	84	-
VOC	1,3-DICHLOROBENZENE	ug/l	✓	✓	NE	183	502	143	28.5	0.19	25,000	1.0	10,000	-	-	19	-	51	-
VOC	1,3-DICHLOROPROPANE	ug/l	✓		NE	122	329	1	0.3	5.1	5.1	1.0	25,000	-	-	-	-	59	-
VOC	1,4-DICHLOROBENZENE	ug/l	✓	✓	75	0.502	502	276	55.0	0.37	44,000	1.0	10,000	YES	146	-	22	-	29.1
VOC	2,3-DIMETHYLPENTANE	ug/l		✓	NE	NE	126	6	4.8	0.58	8.1	2.0	10,000	-	-	-	-	-	-
VOC	2,4-DIMETHYLPENTANE	ug/l		✓	NE	NE	126	1	0.8	0.83	0.83	2.0	10,000	-	-	-	-	-	-
VOC	2-BUTANONE	ug/l	✓		NE	6968	184	3	1.6	81	874	5.0	50,000	-	-	-	-	-	-
VOC	2-CHLOROTOLUENE	ug/l	✓		NE	122	329	17	5.2	0.36	180	1.0	25,000	-	-	1	-	61	-
VOC	2-METHYLHEXANE	ug/l		✓	NE	NE	126	6	4.8	0.53	53	2.0	10,000	-	-	-	-	-	-
VOC	3,3-DIMETHYLPENTANE	ug/l		✓	NE	NE	126	3	2.4	0.30	1.2	2.0	10,000	-	-	-	-	-	-
VOC	3-ETHYLPENTANE	ug/l		✓	NE	NE	126	5	4.0	0.34	2.2	2.0	10,000	-	-	-	-	-	-
VOC	3-METHYLHEXANE	ug/l		✓	NE	NE	126	5	4.0	0.48	3.9	2.0	10,000	-	-	-	-	-	-
VOC	4-CHLOROTOLUENE	ug/l	✓		NE	NE	329	16	4.9	0.31	140	1.0	25,000	-	-	-	-	-	-
VOC	4-METHYL-2-PENTANONE	ug/l	✓		NE	1993	184	6	3.3	0.79	150	5.0	50,000	-	-	-	-	14	-
VOC	ACETONE	ug/l	✓	✓	NE	5475	154	8	5.2	12	2,500	2.0	100,000	-	-	-	-	9	-
VOC	ACETONITRILE	ug/l			NE	103	12	0	-	-	-	10	10000	-	-	-	-	4	-

TABLE 4-4

PREVALENCE TABLE
SITE-RELATED CHEMICALS IN ALLUVIAL AQUIFER GROUNDWATER

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

GROUP	CHEMICAL	UNITS	MONTROSE SRC	STAUFFER SRC	MCL	PRG	TOTAL ANALYSES	NUMBER DETECTS	PERCENT DETECTIONS	MINIMUM DETECTED VALUE	MAXIMUM DETECTED VALUE	MINIMUM DETECTION LIMIT	MAXIMUM DETECTION LIMIT	EXCEEDS MCL?	NUMBER DETECTS > MCL	NUMBER DETECTS > PRG (IF NO MCL)	NUMBER NDS > MCL	NUMBER NDS > PRG (IF NO MCL)	PERCENT DETECTIONS >MCL
VOC	ACRYLONITRILE	ug/l			NE	0.0389	42	0	-	-	-	5	100	-	-	-	-	42	-
VOC	BENZENE	ug/l	✓	✓	5	0.354	330	169	51.2	0.38	700,000	1.0	200	YES	152	-	4	-	46.1
VOC	BROMOBENZENE	ug/l	✓		NE	20.3	329	6	1.8	0.27	240	1.0	25,000	-	-	1	-	83	-
VOC	BROMODICHLOROMETHANE	ug/l			80	0.181	329	7	2.1	0.29	5.9	1.0	10,000	-	-	-	62	-	-
VOC	BROMOFORM	ug/l	✓		80	8.51	329	1	0.3	6.6	6.6	1.0	25,000	-	-	-	70	-	-
VOC	BROMOMETHANE	ug/l			NE	8.66	329	0	-	-	-	2	25000	-	-	-	-	102	-
VOC	CARBON DISULFIDE	ug/l		✓	NE	1043	184	7	3.8	1.8	820	1.0	25,000	-	-	-	-	10	-
VOC	CARBON TETRACHLORIDE	ug/l	✓	✓	5	0.171	329	25	7.6	0.63	1,500	1.0	25,000	YES	21	-	92	-	6.4
VOC	CHLOROBENZENE	ug/l	✓	✓	100	106	330	188	57.0	0.37	170,000	1.0	100	YES	140	-	-	-	42.4
VOC	CHLOROETHANE	ug/l	✓		NE	4.64	329	18	5.5	0.53	4.2	1.0	25,000	-	-	-	-	267	-
VOC	CHLOROFORM	ug/l	✓	✓	80	0.166	329	227	69.0	0.35	130,000*	1.0	10,000	YES	91	-	17	-	27.7
VOC	CHLOROMETHANE	ug/l	✓		NE	158	329	2	0.6	0.67	22	2.0	25,000	-	-	-	-	63	-
VOC	CIS-1,2-DICHLOROETHENE	ug/l	✓		70	60.8	329	9	2.7	0.33	0.96	1.0	10,000	-	-	-	63	-	-
VOC	CIS-1,3-DICHLOROPROPENE	ug/l			NE	0.395	329	4	1.2	2.0	2.0	1.0	10,000	-	-	4	-	325	-
VOC	DIBROMOCHLOROMETHANE	ug/l	✓		80	0.133	329	1	0.3	2.8	2.8	1.0	10,000	-	-	-	62	-	-
VOC	DIBROMOMETHANE	ug/l			NE	60.8	329	0	-	-	-	1	10000	-	-	-	-	63	-
VOC	DICHLORODIFLUOROMETHANE	ug/l	✓		NE	395	329	0	-	-	-	1	25000	-	-	-	-	47	-
VOC	DIMETHYL DISULFIDE	ug/l		✓	NE	NE	313	12	3.8	0.50	400,000	2.0	10,000	-	-	-	-	-	-
VOC	ETHANOL	ug/l	✓	✓	NE	NE	84	9	10.7	600	1,100,000	500	5,000	-	-	-	-	-	-
VOC	ETHENE	ug/l			NE	NE	12	6	50.0	1.0	2.2	5.0	5.0	-	-	-	-	-	-
VOC	ETHYLBENZENE	ug/l	✓		700	1340	329	3	0.9	0.25	150	1.0	10,000	-	-	-	20	-	-
VOC	HEXACHLOROBUTADIENE	ug/l	✓	✓	NE	0.862	501	2	0.4	0.45	0.50	2.0	25,000	-	-	-	-	499	-
VOC	ISOPROPYLBENZENE	ug/l	✓		NE	658	329	1	0.3	140	140	1.0	10,000	-	-	-	-	20	-
VOC	M,P-XYLENE	ug/l	✓	✓	10,000	206	324	5	1.5	0.65	300	1.0	10,000	-	-	-	-	-	-
VOC	METHANE	ug/l			NE	NE	12	5	41.7	1.5	700	5.0	5.0	-	-	-	-	-	-
VOC	METHYLENE CHLORIDE	ug/l	✓	✓	5	4.28	329	49	14.9	0.44	5,100	1.0	25,000	YES	35	-	88	-	10.6
VOC	METHYL-TERT-BUTYL ETHER	ug/l			NE	11.0	136	0	-	-	-	2	25000	-	-	-	-	43	-
VOC	NAPHTHALENE	ug/l	✓	✓	NE	6.20	501	14	2.8	0.49	3,100	2.0	25,000	-	-	4	-	299	-
VOC	N-BUTYLBENZENE	ug/l	✓		NE	243	329	6	1.8	0.32	360	1.0	25,000	-	-	1	-	33	-
VOC	NONANAL	ug/l		✓	NE	NE	126	11	8.7	1.5	5,800	5.0	25,000	-	-	-	-	-	-
VOC	N-PROPYLBENZENE	ug/l	✓		NE	243	329	3	0.9	0.29	260	1.0	10,000	-	-	1	-	29	-
VOC	O-XYLENE	ug/l	✓	✓	10,000	206	329	6	1.8	0.33	140	1.0	10,000	-	-	-	-	-	-
VOC	P-ISOPROPYL TOLUENE	ug/l			NE	NE	329	6	1.8	0.31	220	1.0	10,000	-	-	-	-	-	-
VOC	SEC-BUTYLBENZENE	ug/l	✓		NE	243	329	5	1.5	0.41	220	1.0	25,000	-	-	-	-	54	-
VOC	STYRENE	ug/l	✓		100	1641	329	2	0.6	0.18	190	1.0	10,000	YES	1	-	52	-	0.3
VOC	TERT- BUTYLBENZENE	ug/l	✓		NE	243	329	3	0.9	0.26	180	1.0	25,000	-	-	-	-	54	-
VOC	TERT-AMYL METHYL ETHER	ug/l			NE	NE	12	4	33.3	1.0	43	5.0	5.0		-				-
VOC	TETRACHLOROETHENE	ug/l	✓		5	0.104	329	91	27.7	0.32	730	1.0	10,000	YES	45	-	82	-	13.7
VOC	TOLUENE	ug/l	✓	✓	1,000	723	329	28	8.5	0.44	540	1.0	10,000	-	-	-	16	-	-
VOC	TOTAL THM	ug/l			80	NE	12	10	83.3	5.4	97,000	5.0	5.0	YES	9	-	-	-	75.0
VOC	TOTAL XYLENES	ug/l	✓	✓	10,000	206	17	2	11.8	3.3	430	3.0	3,000	-	-	-	-	-	-
VOC	TRANS-1,2-DICHLOROETHENE	ug/l	✓		100	122	329	1	0.3	0.28	0.28	1.0	10,000	-	-	-	53	-	-
VOC	TRANS-1,3-DICHLOROPROPENE	ug/l	✓		NE	0.395	329	0	-	-	-	1	10000	-	-	-	-	329	-
VOC	TRICHLOROETHENE	ug/l	✓		5	0.0280	329	83	25.2	0.26	700	1.0	10,000	YES	40	-	83	-	12.2
VOC	TRICHLOROFLUOROMETHANE	ug/l	✓		NE	1288	329	0	-	-	-	1	25000	-	-	-	-	19	-
VOC	VINYL ACETATE	ug/l			NE	412	28	1	3.6	3.0	3.0	2.0	2,000	-	-	-	-	4	-
VOC	VINYL CHLORIDE	ug/l	✓		2	0.0198	329	8	2.4	0.34	3.4	1.0	25,000	YES	2	-	201	-	0.6

NOTES:

130,000* = FTD-10 is a grab sample not a true groundwater sample collected under the FSSOP purge procedures.

> - greater than

MCL - U.S. Environmental Protection Agency Primary Maximum Contaminant Level

mg/l - Milligrams per liter

NDS - Non-detects

NE - Not established
PCB - Polychlorinated biphenyl
PRG - U.S. Environmental Protection Agency, Region IX, Preliminary Remediation Goal for Tap Water
SRC - Site-related chemical
SVOC - Semi-volatile organic compound
TPH - Total petroleum hydrocarbons
ug/l - Micrograms per liter
umhos/cm - Micromhos per centimeter
VOC - Volatile organic compound

Original chemicals on the table that had detection limits > MCL or PRG.
Any new chemicals added to the table (previously all NDs) where one or more detection limit > MCL or PRG.

TABLE 4-5

PREVALENCE TABLE
SITE-RELATED CHEMICALS IN FINE-GRAINED UPPER MUDDY CREEK FORMATION GROUNDWATER

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

GROUP	CHEMICAL	UNITS	MONTROSE SRC	STAUFFER SRC	MCL	PRG	TOTAL ANALYSES	NUMBER DETECTS	PERCENT DETECTIONS	MINIMUM DETECTED VALUE	MAXIMUM DETECTED VALUE	MINIMUM DETECTION LIMIT	MAXIMUM DETECTION LIMIT	EXCEEDS MCL?	NUMBER DETECTS > MCL	NUMBER DETECTS > PRG (IF NO MCL)	NUMBER NDS > MCL	NUMBER NDS > PRG (IF NO MCL)	PERCENT DETECTIONS >MCL
ALDEHYDES	ACETALDEHYDE	ug/l	✓		NE	1.75	14	6	42.9	4.0	10	30	30	-	-	6	-	8	-
ALDEHYDES	FORMALDEHYDE	ug/l		✓	NE	5470	14	2	14.3	28	43	60	60	-	-	-	-	-	-
DIOXINS/FURANS	123478-HEXACHLORINATED DIBENZOFURAN	ug/l		✓	NE	NE	5	1	20	2.80E-05	2.80E-05	3.50E-06	8.90E-06	-	-	-	-	-	-
DIOXINS/FURANS	OCTACHLORINATED DIBENZO-P-DIOXIN	ug/l		✓	NE	NE	5	2	40	9.10E-05	9.70E-05	8.30E-06	4.30E-05	-	-	-	-	-	-
GENERAL CHEMICAL	SPECIFIC CONDUCTANCE	umhos/cm			NE	NE	5	5	100	1,580	4,980	-	-	-	-	-	-	-	-
GENERAL CHEMICAL	TOTAL DISSOLVED SOLIDS	mg/l	✓	✓	NE	NE	31	31	100	620	31,000	-	-	-	-	-	-	-	-
GENERAL CHEMICAL	TOTAL INORGANIC CARBON	mg/l			NE	NE	7	7	100	0.40	32	-	-	-	-	-	-	-	-
GENERAL CHEMICAL	TOTAL KJELDAHL NITROGEN	mg/l			NE	NE	5	3	60	0.10	0.11	0.10	0.10	-	-	-	-	-	-
GENERAL CHEMICAL	TOTAL ORGANIC CARBON	mg/l			NE	NE	5	5	100	1.4	44	-	-	-	-	-	-	-	-
GENERAL CHEMICAL	TOTAL SUSPENDED SOLIDS	mg/l			NE	NE	5	4	80	7.0	51	1.0	1.0	-	-	-	-	-	-
HERBICIDE	2,4,5-T	ug/l			NE	365	4	1	25	4.6	4.6	1.0	1.0	-	-	-	-	-	-
HERBICIDE	DALAPON; 2,2-DICHLOROPROPANOIC	ug/l			200	1095	5	4	80	2.7	5.3	2.0	2.0	-	-	-	-	-	-
HERBICIDE	MCPA	ug/l				18.3	4	0	0	-	-	400	400	-	-	-	-	4	-
INDICATOR CHEMICAL	ALKALINITY AS CACO3	mg/l			NE	NE	9	9	100	48	180	-	-	-	-	-	-	-	-
INDICATOR CHEMICAL	ALKALINITY, BICARBONATE (AS CACO3)	mg/l			NE	NE	14	14	100	48	422	-	-	-	-	-	-	-	-
INDICATOR CHEMICAL	ALKALINITY, CARBONATE (AS CACO3)	mg/l			NE	NE	14	2	14.3	4.0	16	2.0	5.0	-	-	-	-	-	-
INDICATOR CHEMICAL	ALKALINITY, TOTAL	mg/l			NE	NE	5	5	100	93	422	-	-	-	-	-	-	-	-
INDICATOR CHEMICAL	AMMONIA	mg/l	✓	✓	NE	NE	14	5	35.7	0.054	0.76	0.050	0.50	-	-	-	-	-	-
INDICATOR CHEMICAL	CARBONATE AS CACO3	mg/l			NE	NE	9	2	22.2	2.4	9.6	1.2	1.2	-	-	-	-	-	-
INDICATOR CHEMICAL	CHLORIDE	mg/l	✓		NE	NE	14	14	100	33	12,000	-	-	-	-	-	-	-	-
INDICATOR CHEMICAL	HARDNESS, TOTAL	mg/l			NE	NE	5	5	100	232	464	-	-	-	-	-	-	-	-
INDICATOR CHEMICAL	IRON	mg/l	✓	✓	NE	10.9	14	8	57.1	0.032	3.9	0.040	0.20	-	-	-	-	-	-
INDICATOR CHEMICAL	PH	pH units	✓		NE	NE	14	14	100	6.9	8.8	-	-	-	-	-	-	-	-
INDICATOR CHEMICAL	SODIUM	mg/l	✓	✓	NE	NE	14	14	100	150	7,930	-	-	-	-	-	-	-	-
INDICATOR CHEMICAL	SULFATE	mg/l	✓		NE	NE	14	14	100	29	2,400	-	-	-	-	-	-	-	-
INDICATOR CHEMICAL	SULFUR	mg/l	✓		NE	NE	6	6	100	70	715	-	-	-	-	-	-	-	-
INORGANIC	BICARBONATE	mg/l		✓	NE	NE	9	9	100	59	220	-	-	-	-	-	-	-	-
INORGANIC	CHLORATE	ug/l		✓	NE	NE	5	1	20	459	459	200	200	-	-	-	-	-	-
INORGANIC	FLUORIDE	mg/l	✓		4	2.19	11	11	100	0.053	3.1	-	-	-	-	-	-	-	-
INORGANIC	IODIDE	ug/l		✓	NE	NE	6	4	66.7	618	2,970	500	5,000	-	-	-	-	-	-
INORGANIC	NITRATE	mg/l		✓	10	10.0	14	9	64.3	0.034	1.8	0.020	5.5	-	-	-	-	-	-
INORGANIC	NITRITE	mg/l			1	1.00	11	4	36.4	0.053	4.0	0.020	3.0	YES	1	-	3	-	9.1
INORGANIC	ORTHOPHOSPHATE	mg/l			NE	NE	11	3	27.3	0.25	0.65	0.16	3.2	-	-	-	-	-	-
INORGANIC	PERCHLORATE	ug/l			NE	3.65	14	6	42.9	8.2	40,100	4.0	4,000	-	-	6	-	8	-
METAL	ALUMINUM	mg/l	✓	✓	NE	36.5	14	3	21.4	0.068	0.33	0.030	3.0	-	-	-	-	-	-
METAL	ANTIMONY	mg/l	✓	✓	6.00E-03	0.0146	14	4	28.6	6.50E-05	1.30E-03	0.0100	0.060	-	-	-	10	-	-
METAL	ARSENIC	mg/l	✓	✓	0.01	0.0000448	31	29	93.5	9.60E-03	0.26	0.0100	0.0100	YES	27	-	-	-	87.1
METAL	BARIUM	mg/l	✓		2	2.55	28	27	96.4	0.021	0.14	0.0100	0.0100	-	-	-	-	-	-
METAL	BERYLLIUM	mg/l			0.004	NE	14	0	0	-	-	0.005	5.0E-04	-	-	-	11	-	-
METAL	BORON	mg/l			NE	7.30	11	11	100	0.51	1.5	-	-	-	-	-	-	-	-
METAL	BROMIDE	mg/l			NE	NE	11	4	36.4	0.23	1.1	0.25	10	-	-	-	-	-	-
METAL	CADMIUM	mg/l	✓	✓	5.00E-03	0.0183	31	1	3.2	5.60E-04	5.60E-04	1.00E-03	0.0100	-	-	-	16	-	-
METAL	CALCIUM	mg/l	✓	✓	NE	NE	14	14	100	21	1,100	-	-	-	-	-	-	-	-
METAL	CHROMIUM	mg/l	✓	✓	0.1	NE	31	18	58.1	2.20E-03	0.049	0.0100	0.028	-	-	-	-	-	-
METAL	COBALT	mg/l	✓	✓	NE	0.730	14	5	35.7	1.90E-04	6.50E-03	0.0100	1.0	-	-	-	-	1	-
METAL	COPPER	mg/l	✓	✓	1.3	1.46	14	7	50	1.10E-03	0.11	0.020	1.0	-	-	-	-	-	-
METAL	HEXAVALENT CHROMIUM	mg/l	✓	✓	NE	0.110	14	4	28.6	5.70E-04	0.012	2.00E-03	0.0100	-	-	-	-	-	-
METAL	LEAD	mg/l	✓	✓	0.015	NE	31	5	16.1	1.40E-04	0.031	1.00E-03	0.0100	YES	1	-	-	-	3.2
METAL	LITHIUM	mg/l			NE	0.730	11	9	81.8	0.053	1.0	0.050	0.50	-	-	1	-	-	-
METAL	MAGNESIUM	mg/l	✓	✓	NE	NE	14	14	100	8.1	1,360	-	-	-	-	-	-	-	-
METAL	MANGANESE	mg/l	✓	✓	NE	0.876	14	13	92.9	3.70E-03	3.4	0.0100	0.0100	-	-	3	-	-	-
METAL	MOLYBDENUM	mg/l	✓		NE	0.183	11	10	90.9	6.90E-03	0.065	0.020	0.020	-	-	-	-	-	-
METAL	NICKEL	mg/l	✓	✓	NE	0.730	14	6	42.9	1.70E-03	0.030	0.020	1.0	-	-	-	-	1	-
METAL	PALLADIUM	ug/l			NE	NE	5	5	100	3.5	89	-	-	-	-	-	-	-	-
METAL	PHOSPHORUS, TOTAL (AS P)	mg/l	✓	✓	NE	0.000730	23	15	65.2	0.020	2.6	0.040	2.5	-	-	15	-	8	-
METAL	POTASSIUM	mg/l	✓	✓	NE	NE	14	14	100	6.5	68	-	-	-	-	-	-	-	-
METAL	SELENIUM	mg/l	✓	✓	0.05	0.183	31	17	54.8	1.80E-03	0.025	5.00E-03	0.020	-	-	-	-	-	-
METAL	SILICON	mg/l			NE	NE	4	4	100	16	26	-	-	-	-	-	-	-	-
METAL	STRONTIUM	mg/l			NE	21.9	11	11	100	0.60	39	-	-	-	-	2	-	-	-
METAL	THALLIUM	mg/l	✓	✓	2.00E-03	0.00241	14	2	14.3	1.50E-03	3.10E-03	1.00E-03	0.0100	YES	1		9	-	7.1
METAL	TIN	mg/l	✓	✓	NE	21.9	14	3	21.4	0.026	0.11	0.0100	1.0	-	-	-	-	-	-
METAL	TITANIUM	mg/l		✓	NE	146	14	5	35.7	2.30E-03	0.013	5.00E-03	1.0	-	-	-	-	-	-
METAL	TUNGSTEN	ug/l			NE	NE	5	4	80	19	116	10	10	-	-	-	-	-	-
METAL	URANIUM	ug/l			30	7.30	5	5	100	2.6	119	-	-	YES	1	-	-	-	20.0
METAL	VANADIUM	mg/l	✓	✓	NE	0.0365	14	10	71.4	2.70E-03	0.56	0.020	0.020	-	-	4	-	-	-
METAL	ZINC	mg/l	✓	✓	NE	10.9	14	8	57.1	5.20E-03	0.83	0.20	0.20	-	-	-	-	-	-
METAL	ZIRCONIUM	ug/l			NE	NE	5	1	20	43	43	100	500	-	-	-	-	-	-
ORGANIC ACID	4-CHLOROBENZENESULFONIC ACID	ug/l	✓	✓	NE	NE	31	14	45.2	81	170,000	50	100	-	-	-	-	-	-
ORGANIC ACID	BENZENESULFONIC ACID	ug/l		✓	NE	NE	31	9	29	110	850	50	100	-	-	-	-	-	-
ORGANIC ACID	DIETHYL PHOSPHORODITHIOIC ACID	ug/l		✓	NE	NE	31	1	3.2	59	59	50	1,000	-	-	-	-	-	-
ORGANIC ACID	DIMETHYL PHOSPHORODITHIOIC ACID	ug/l		✓	NE	NE	31	5	16.1	290	2,800	100	2,500	-	-	-	-	-	-
ORGANIC ACID	PHTHALIC ACID	ug/l		✓	NE	NE	36	4	11.1	56	610	10	1,000	-	-	-	-	-	-
PCB	2,2'-DICHLOROBIPHENYL	ug/l	✓		0.5	NE	6	6	100	3.81E-04	0.53	-	-	YES	1	-	-	-	16.7
PCB	2,3'-DICHLOROBIPHENYL	ug/l	✓		0.5	NE	6	6	100	1.14E-03	0.48	-	-	-	-	-	-	-	-
PCB	2,3-DICHLOROBIPHENYL	ug/l	✓		0.5	NE	6	4	66.7	7.35E-04	0.11	7.60E-05	1.10E-04	-	-	-	-	-	-
PCB	2,4'-DICHLOROBIPHENYL	ug/l	✓		0.5	NE	6	6	100	7.02E-04	0.62	-	-	YES	1	-	-	-	16.7

TABLE 4-5

PREVALENCE TABLE
SITE-RELATED CHEMICALS IN FINE-GRAINED UPPER MUDDY CREEK FORMATION GROUNDWATER

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

GROUP	CHEMICAL	UNITS	MONTROSE SRC	STAUFFER SRC	MCL	PRG	TOTAL ANALYSES	NUMBER DETECTS	PERCENT DETECTIONS	MINIMUM DETECTED VALUE	MAXIMUM DETECTED VALUE	MINIMUM DETECTION LIMIT	MAXIMUM DETECTION LIMIT	EXCEEDS MCL?	NUMBER DETECTS > MCL	NUMBER DETECTS > PRG (IF NO MCL)	NUMBER NDS > MCL	NUMBER NDS > PRG (IF NO MCL)	PERCENT DETECTIONS >MCL
PCB	2,4-DICHLOROBIPHENYL	ug/l	✓		0.5	NE	6	5	83.3	9.00E-05	0.035	3.90E-05	3.90E-05	-	-	-	-	-	-
PCB	2,5-DICHLOROBIPHENYL	ug/l	✓		0.5	NE	6	6	100	1.49E-04	0.29	-	-	-	-	-	-	-	-
PCB	2,6-DICHLOROBIPHENYL	ug/l	✓		0.5	NE	6	3	50	5.60E-05	8.09E-03	1.60E-05	8.10E-05	-	-	-	-	-	-
PCB	3,3'-DICHLOROBIPHENYL	ug/l	✓		0.5	NE	6	6	100	2.46E-04	0.19	-	-	-	-	-	-	-	-
PCB	3,4 & 3,4'-DICHLOROBIPHENYL	ug/l	✓		0.5	NE	6	6	100	4.06E-04	0.41	-	-	-	-	-	-	-	-
PCB	3,5-DICHLOROBIPHENYL	ug/l	✓		0.5	NE	6	5	83.3	7.10E-05	0.023	4.00E-05	4.00E-05	-	-	-	-	-	-
PCB	4,4'-DICHLOROBIPHENYL	ug/l	✓		0.5	NE	6	6	100	1.26E-04	0.11	-	-	-	-	-	-	-	-
PCB	AROCLOR-1016	ug/l			0.5	NE	11	0	0	-	-	0.95	19	-	-	-	11	-	-
PCB	AROCLOR-1221	ug/l			0.5	NE	11	0	0	-	-	0.95	19	-	-	-	11	-	-
PCB	AROCLOR-1232	ug/l			0.5	NE	11	0	0	-	-	0.95	19	-	-	-	11	-	-
PCB	AROCLOR-1242	ug/l			0.5	NE	11	0	0	-	-	0.95	19	-	-	-	11	-	-
PCB	AROCLOR-1248	ug/l			0.5	NE	11	0	0	-	-	0.95	19	-	-	-	11	-	-
PCB	AROCLOR-1254	ug/l			0.5	NE	11	0	0	-	-	0.95	19	-	-	-	11	-	-
PCB	AROCLOR-1260	ug/l			0.5	NE	11	0	0	-	-	0.95	19	-	-	-	11	-	-
PCB	PCB 077	ug/l	✓	✓	0.5	NE	6	3	50	4.00E-05	3.73E-03	2.70E-05	6.60E-05	-	-	-	-	-	-
PCB	PCB 081	ug/l	✓	✓	0.5	NE	6	3	50	1.50E-05	3.23E-03	2.00E-05	7.00E-05	-	-	-	-	-	-
PCB	PCB 105	ug/l	✓	✓	0.5	NE	6	1	16.7	9.13E-03	9.13E-03	3.30E-05	0.053	-	-	-	-	-	-
PCB	PCB 114	ug/l	✓	✓	0.5	NE	6	3	50	8.60E-05	0.011	2.70E-06	1.10E-05	-	-	-	-	-	-
PCB	PCB 118	ug/l	✓	✓	0.5	NE	6	5	83.3	2.40E-04	0.100	3.42E-05	3.42E-05	-	-	-	-	-	-
PCB	PCB 123	ug/l	✓	✓	0.5	NE	6	2	33.3	2.94E-04	2.23E-03	2.70E-06	1.20E-05	-	-	-	-	-	-
PCB	PCB 126	ug/l	✓	✓	0.5	NE	6	3	50	3.20E-05	7.45E-04	2.60E-06	5.60E-06	-	-	-	-	-	-
PCB	PCB 156 & 157	ug/l	✓		0.5	NE	6	6	100	8.30E-06	0.019	-	-	-	-	-	-	-	-
PCB	PCB 167	ug/l	✓	✓	0.5	NE	6	5	83.3	4.10E-06	5.73E-03	1.10E-05	1.10E-05	-	-	-	-	-	-
PCB	PCB 169	ug/l	✓	✓	0.5	NE	6	1	16.7	3.20E-04	3.20E-04	2.80E-06	1.80E-04	-	-	-	-	-	-
PCB	PCB 189	ug/l	✓	✓	0.5	NE	6	4	66.7	1.28E-05	1.26E-03	3.20E-06	3.80E-06	-	-	-	-	-	-
PESTICIDE	2,4'-DDD	ug/l	✓	✓	NE	NE	26	2	7.7	0.075	9.0	0.094	19	-	-	-	-	-	-
PESTICIDE	2,4'-DDE	ug/l	✓	✓	NE	NE	31	7	22.6	0.045	42	0.050	5.0	-	-	-	-	-	-
PESTICIDE	2,4'-DDT	ug/l	✓		NE	NE	26	3	11.5	0.077	17	0.094	5.0	-	-	-	-	-	-
PESTICIDE	4,4'-DDD	ug/l	✓	✓	NE	0.280	31	3	9.7	0.49	15	0.050	19	-	-	3	-	9	-
PESTICIDE	4,4'-DDE	ug/l	✓	✓	NE	0.198	30	5	16.7	0.11	150	0.050	5.0	-	-	4	-	7	-
PESTICIDE	4,4'-DDT	ug/l	✓	✓	NE	0.198	31	11	35.5	0.032	100	0.050	5.0	-	-	6	-	7	-
PESTICIDE	ALDRIN	ug/l	✓	✓		0.00395	30	0	0	-	-	0.05	24		-	-	-	30	-
PESTICIDE	ALPHA-BHC	ug/l	✓	✓	NE	0.0107	31	23	74.2	0.039	500	0.094	24	-	-	23	-	8	-
PESTICIDE	ALPHA-CHLORDANE	ug/l			NE	NE	5	1	20	0.18	0.18	0.050	0.050	-	-	-	-	-	-
PESTICIDE	BETA-BHC	ug/l	✓	✓	NE	0.0374	31	17	54.8	0.051	130	0.050	24	-	-	17	-	14	-
PESTICIDE	CARBOPHENOTHION (TRITHION)	ug/l		✓	NE	NE	8	1	12.5	0.48	0.48	0.48	0.60	-	-	-	-	-	-
PESTICIDE	CHLORDANE	ug/l			2	NE	30	0	0	-	-	0.05	240	-	-	-	10	-	-
PESTICIDE	DELTA-BHC	ug/l	✓	✓	NE	NE	31	12	38.7	0.029	65	0.050	47	-	-	-	-	-	-
PESTICIDE	DICHLORVOS	ug/l				0.232	8	0	0	-	-	0.48	0.5	-	-	-	-	8	-
PESTICIDE	DIELDRIN	ug/l	✓	✓	NE	0.00420	31	3	9.7	0.038	0.73	0.050	24	-	-	3	-	28	-
PESTICIDE	ENDOSULFAN I	ug/l	✓	✓	NE	219	30	1	3.3	10	10	0.050	19	-	-	-	-	-	-
PESTICIDE	ENDOSULFAN II	ug/l			NE	219	31	2	6.5	0.13	0.18	0.050	24	-	-	-	-	-	-
PESTICIDE	ENDRIN	ug/l	✓	✓	2	NE	30	0	0	-	-	0.050	24	-	-	-	5	-	-
PESTICIDE	ENDRIN KETONE	ug/l			NE	NE	30	1	3.3	0.11	0.11	0.050	24	-	-	-	-	-	-
PESTICIDE	EPN	ug/l				0.365	8	0	0	-	-	0.48	0.5	-	-	-	-	8	-
PESTICIDE	GAMMA-BHC (LINDANE)	ug/l	✓	✓	0.2	0.0517	31	20	64.5	0.034	140	0.050	24	YES	16	-	8	-	51.6
PESTICIDE	HEPTACHLOR	ug/l			0.4	NE	30	0	0	-	-	0.050	24	-	-	-	9	-	-
PESTICIDE	HEPTACHLOR EPOXIDE	ug/l	✓	✓	0.2	NE	30	0	0	-	-	0.050	24	-	-	-	10	-	-
PESTICIDE	MERPHOS	ug/l				1.10	8	0	0	-	-	0.48	5	-	-	-	-	5	-
PESTICIDE	PHORATE	ug/l			NE	7.30	8	1	12.5	5.2	5.2	0.48	1.2	-	-	-	-	-	-
PESTICIDE	TOXAPHENE	ug/l			3	NE	30	0	0	-	-	2.0	1,200	-	-	-	26	-	-
RADIONUCLIDES	ACTINIUM-228	pci/l				23.9	5	0	0	-	-	51	74	-	-	-	-	5	-
RADIONUCLIDES	BISMUTH-210	pci/l				5.34	5	0	0	-	-	250	300	-	-	-	-	5	-
RADIONUCLIDES	BISMUTH-212	pci/l				67.1	5	0	0	-	-	91	130	-	-	-	-	5	-
RADIONUCLIDES	BISMUTH-214	pci/l			NE	248	5	1	20	63	63	31	48	-	-	-	-	-	-
RADIONUCLIDES	COBALT-60	pci/l				3.03	5	0	0	-	-	15	22	-	-	-	-	5	-
RADIONUCLIDES	GROSS ALPHA	pci/l			15	NE	5	0	0	-	-	8	310	-	-	-	2	-	-
RADIONUCLIDES	GROSS BETA	pci/l			NE	NE	5	2	40	13	14	13	120	-	-	-	-	-	-
RADIONUCLIDES	LEAD-210	pci/l				0.0541	5	0	0	-	-	250	300	-	-	-	-	5	-
RADIONUCLIDES	LEAD-212	pci/l				1.90	5	0	0	-	-	19	24	-	-	-	-	5	-
RADIONUCLIDES	LEAD-214	pci/l			NE	138	5	2	40	36	52	29	37	-	-	-	-	-	-
RADIONUCLIDES	POLONIUM-210	pci/l				0.126	5	0	0	-	-	250	300	-	-	-	-	5	-
RADIONUCLIDES	POLONIUM-214	pci/l			NE	NE	5	1	20	63	63	31	48	-	-	-	-	-	-
RADIONUCLIDES	POLONIUM-218	pci/l			NE	NE	5	1	20	1.9	1.9	0.16	0.29	-	-	-	-	-	-
RADIONUCLIDES	POTASSIUM-40	pci/l				1.93	5	0	0	-	-	200	260	-	-	-	-	5	-
RADIONUCLIDES	PROTACTINIUM-234	pci/l				18.6	5	0	0	-	-	31	35	-	-	-	-	5	-
RADIONUCLIDES	RADIUM 226	pci/l			NE	0.000823	5	1	20	1.9	1.9	0.16	0.29	-	-	1	-	4	-
RADIONUCLIDES	RADIUM 228	pci/l			NE	0.0458	5	1	20	2.8	2.8	0.63	0.77	-	-	1	-	4	-
RADIONUCLIDES	RADIUM-223	pci/l			5	NE	5	0	0	-	-	100	130	-	-	-	5	-	-
RADIONUCLIDES	RADIUM-224	pci/l			5	NE	5	0	0	-	-	190	280	-	-	-	5	-	-
RADIONUCLIDES	THORIUM-228	pci/l				0.445	5	0	0	-	-	0.13	0.49	-	-	-	-	1	-
RADIONUCLIDES	THORIUM-234	pci/l				2.06	5	0	0	-	-	130	150	-	-	-	-	5	-
RADIONUCLIDES	URANIUM-234	pci/l			NE	0.674	5	5	100	1.4	47	-	-	-	-	5	-	-	-
RADIONUCLIDES	URANIUM-235	pci/l			NE	0.684	5	5	100	0.12	1.7	-	-	-	-	1	-	-	-
RADIONUCLIDES	URANIUM-238	pci/l			NE	0.744	5	5	100	1.0	35	-	-	-	-	5	-	-	-
SVOC	1,1'-SULFONYBIS BENZENE	ug/l		✓		109	20	0	0	-	-	9.5	190	-	-	-	-	1	-

TABLE 4-5

PREVALENCE TABLE
SITE-RELATED CHEMICALS IN FINE-GRAINED UPPER MUDDY CREEK FORMATION GROUNDWATER

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

GROUP	CHEMICAL	UNITS	MONTROSE SRC	STAUFFER SRC	MCL	PRG	TOTAL ANALYSES	NUMBER DETECTS	PERCENT DETECTIONS	MINIMUM DETECTED VALUE	MAXIMUM DETECTED VALUE	MINIMUM DETECTION LIMIT	MAXIMUM DETECTION LIMIT	EXCEEDS MCL?	NUMBER DETECTS > MCL	NUMBER DETECTS > PRG (IF NO MCL)	NUMBER NDS > MCL	NUMBER NDS > PRG (IF NO MCL)	PERCENT DETECTIONS >MCL
SVOC	1,2,4,5-TETRACHLOROBENZENE	ug/l	✓	✓	NE	11.0	20	2	10	2.1	49	9.5	190	-	-	1		8	-
SVOC	1,2,4-TRICHLOROBENZENE	ug/l	✓	✓	70	7.16	58	14	24.1	12	1,300	1.0	20,000	YES	5		24	-	8.6
SVOC	1,4-DIOXANE	ug/l			NE	6.11	6	1	16.7	29	29	0.98	25	-	-	1		1	-
SVOC	2,2'-/4,4'-DICHLOROBENZIL	ug/l	✓		NE	NE	20	1	5	69	69	9.5	190	-	-	-	-	-	-
SVOC	2,4,5-TRICHLOROPHENOL	ug/l	✓	✓	NE	3650	31	2	6.5	5.4	6.1	10	390	-	-	-	-	-	-
SVOC	2,4,6-TRICHLOROPHENOL	ug/l	✓	✓	NE	3.65	31	1	3.2	27	27	10	390	-	-	1	-	30	-
SVOC	2,4-DICHLOROPHENOL	ug/l	✓	✓	NE	110	31	4	12.9	2.0	23	9.4	190	-	-	-	-	1	-
SVOC	2,4-DINITROPHENOL	ug/l				73.0	31	0	0	-	-	19	390	-	-	-	-	9	-
SVOC	2,4-DINITROTOLUENE	ug/l				73.0	31	0	0	-	-	9.4	190	-	-	-	-	5	-
SVOC	2,6-DINITROTOLUENE	ug/l				36.5	31	0	0	-	-	9.4	190	-	-	-	-	9	-
SVOC	2-CHLOROPHENOL	ug/l	✓	✓	NE	30.4	31	16	51.6	3.9	180	9.4	94	-	-	8	-	3	-
SVOC	2-NITROANILINE	ug/l				110	31	0	0	-	-	19	390	-	-	-	-	5	-
SVOC	3,3'-DICHLOROBENZIDINE	ug/l				0.149	31	0	0	-	-	19	390	-	-	-	-	31	-
SVOC	3-NITROANILINE	ug/l				3.20	31	0	0	-	-	19	390	-	-	-	-	31	-
SVOC	4,6-DINITRO-2-METHYLPHENOL	ug/l				3.65	26	0	0	-	-	19	390	-	-	-	-	26	-
SVOC	4-CHLOROANILINE	ug/l				146	31	0	0	-	-	9.4	190	-	-	-	-	1	-
SVOC	4-CHLOROPHENYL METHYL SULFIDE	ug/l		✓	NE	NE	20	1	5	13	13	9.5	1,000	-	-	-	-	-	-
SVOC	4-METHYLPHENOL	ug/l				183	26	0	0	-	-	9.4	190	-	-	-	-	1	-
SVOC	4-NITROANILINE	ug/l				3.20	31	0	0	-	-	19	390	-	-	-	-	31	-
SVOC	ANILINE	ug/l				11.8	31	0	0	-	-	9.4	190	-	-	-	-	13	-
SVOC	AZOBENZENE	ug/l				0.611	31	0	0	-	-	10	390	-	-	-	-	31	-
SVOC	BENZIDINE	ug/l				0.000290	5	0	0	-	-	19	42	-	-	-	-	5	-
SVOC	BENZO(A)ANTHRACENE	ug/l		✓		0.0921	36	0	0	-	-	5	190	-	-	-	-	36	-
SVOC	BENZO(A)PYRENE	ug/l	✓	✓	0.2	NE	30	0	0	-	-	0.02	39	-	-	-	24		-
SVOC	BENZO(B)FLUORANTHENE	ug/l		✓		0.0921	36	0	0	-	-	5	190	-	-	-	-	36	-
SVOC	BENZO(K)FLUORANTHENE	ug/l		✓		0.921	36	0	0	-	-	5	190	-	-	-	-	36	-
SVOC	BENZOIC ACID	ug/l	✓	✓	NE	145979	31	11	35.5	2.6	1,300	19	390	-	-	-	-	-	-
SVOC	BENZYL ALCOHOL	ug/l			NE	10950	31	1	3.2	4.0	4.0	10	390	-	-	-	-	-	-
SVOC	BIS(2-CHLOROETHYL)ETHER	ug/l				0.0102	31	0	0	-	-	9.4	190	-	-	-	-	31	-
SVOC	BIS(2-CHLOROISOPROPYL)ETHER	ug/l				0.274	31	0	0	-	-	9.4	190	-	-	-	-	31	-
SVOC	BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	✓	✓	6	4.80	33	4	12.1	3.0	9.3	3.0	970	YES	1	-	28	-	3.0
SVOC	BIS(4-CHLOROPHENYL)DISULFIDE	ug/l		✓	NE	NE	20	1	5	7.2	7.2	9.5	190	-	-	-	-	-	-
SVOC	BIS-(4-CHLOROPHENYL)METHANONE	ug/l	✓	✓	NE	1095	15	1	6.7	2.5	2.5	9.5	190	-	-	-	-	-	-
SVOC	CARBAZOLE	ug/l				3.36	5	0	0	-	-	10	10	-	-	-	-	5	-
SVOC	CHRYSENE	ug/l	✓	✓		9.21	36	0	0	-	-	5	190	-	-	-	-	31	-
SVOC	DIBENZO(A,H)ANTHRACENE	ug/l		✓		0.00921	36	0	0	-	-	5	390	-	-	-	-	36	-
SVOC	DIBENZOFURAN	ug/l				12.2	31	0	0	-	-	9.4	190	-	-	-	-	13	-
SVOC	HEXACHLOROBENZENE	ug/l	✓	✓	1	0.0420	25	3	12	0.018	3.2	0.10	39	YES	1	-	19	-	4.0
SVOC	HEXACHLOROCYCLOPENTADIENE	ug/l			50	NE	33	0	0	-	-	1.0	390	-	-	-	9	-	-
SVOC	HEXACHLOROETHANE	ug/l		✓	NE	4.80	31	2	6.5	2.1	11	9.4	190	-	-	1		29	-
SVOC	INDENO(1,2,3-CD)PYRENE	ug/l		✓		0.0921	36	0	0	-	-	5	390	-	-	-	-	36	-
SVOC	ISOPHORONE	ug/l				70.8	31	0	0	-	-	9.4	190	-	-	-	-	5	-
SVOC	NITROBENZENE	ug/l				3.40	31	0	0	-	-	10	390	-	-	-	-	31	-
SVOC	N-NITROSODIMETHYLAMINE	ug/l				0.00132	15	0	0	-	-	19	390	-	-	-	-	15	-
SVOC	N-NITROSO-DI-N-PROPYLAMINE	ug/l				0.00960	31	0	0	-	-	9.4	190	-	-	-	-	31	-
SVOC	N-NITROSODIPHENYLAMINE	ug/l				13.7	31	0	0	-	-	9.4	190	-	-	-	-	13	-
SVOC	P-CHLOROPHENYL SULFONE	ug/l		✓	NE	183	20	1	5	58	58	9.5	190	-	-	-	-	1	-
SVOC	PENTACHLOROBENZENE	ug/l	✓	✓		29.2	20	0	0	-	-	9.5	190	-	-	-	-	8	-
SVOC	PENTACHLOROPHENOL	ug/l	✓		1	0.560	25	1	4	0.12	0.12	0.20	100	-	-	-	20		-
SVOC	PHENOL	ug/l	✓	✓	NE	10950	31	14	45.2	3.5	220	9.4	190	-	-	-	-	-	-
SVOC	PHENYL DISULFIDE	ug/l		✓	NE	NE	20	2	10	39	59	9.5	190	-	-	-	-	-	-
SVOC	PYRENE	ug/l	✓	✓		183	36	0	0	-	-	5	190	-	-	-	-	1	-
SVOC	PYRIDINE	ug/l		✓		36.5	20	0	0	-	-	19	390	-	-	-	-	9	-
TPH	DRO (C8-C24)	mg/l	✓	✓	NE	NE	3	2	66.7	0.48	37	0.48	0.48	-	-	-	-	-	-
TPH	EFH (C8 - C40)	mg/l	✓	✓	NE	NE	9	8	88.9	0.11	100	0.48	0.48	-	-	-	-	-	-
TPH	ETHYLENE GLYCOL	ug/l			NE	73000	5	1	20	16,000	16,000	10,000	10,000	-	-	-	-	-	-
TPH	METHANOL	ug/l		✓	NE	18250	8	2	25	6,900	7,500	500	5,000	-	-	-	-	-	-
TPH	VOLATILE FUEL HYDROCARBONS (C6-C12)	mg/l	✓	✓	NE	NE	9	8	88.9	0.32	820	0.050	0.050	-	-	-	-	-	-
VOC	1,1,1,2-TETRACHLOROETHANE	ug/l	✓			0.432	32	0	0	-	-	1	20000	-	-	-	-	32	-
VOC	1,1,1-TRICHLOROETHANE	ug/l			200	NE	32	0	0	-	-	1.0	8,000	-	-	-	15	-	-
VOC	1,1,2,2-TETRACHLOROETHANE	ug/l	✓			0.0553	32	0	0	-	-	1	8000	-	-	-	-	32	-
VOC	1,1,2-TRICHLOROETHANE	ug/l	✓		5	NE	32	0	0	-	-	1.0	8,000	-	-	-	23	-	-
VOC	1,1-DICHLOROETHANE	ug/l	✓		NE	811	32	7	21.9	0.38	130	1.0	8,000	-	-	-	-	7	-
VOC	1,1-DICHLOROETHENE	ug/l	✓		7	NE	32	0	0	-	-	1.0	20,000	-	-	-	-	-	
VOC	1,2,3-TRICHLOROBENZENE	ug/l	✓	✓	NE	NE	32	1	3.1	960	960	1.0	20,000	-	-	-	-	-	-
VOC	1,2,3-TRICHLOROPROPANE	ug/l	✓			0.00560	32	0	0	-	-	1	40000	-	-	-	-	32	-
VOC	1,2,4-TRIMETHYLBENZENE	ug/l	✓	✓		12.3	32	0	0	-	-	1	8000	-	-	-	-	23	-
VOC	1,2-DIBROMO-3-CHLOROPROPANE	ug/l	✓		0.2	0.0476	22	3	13.6	0.050	1.3	0.020	5,000	YES	1	-	16	-	4.5
VOC	1,2-DIBROMOETHANE	ug/l			0.05	0.00560	17	1	5.9	0.036	0.036	0.0100	2,000	-	-	-	11	-	-
VOC	1,2-DICHLOROBENZENE	ug/l	✓	✓	600	370	57	43	75.4	0.92	14,000	1.0	2,000	YES	27	-	3	-	47.4
VOC	1,2-DICHLOROETHANE	ug/l	✓		5	0.123	32	6	18.8	0.11	80	1.0	8,000	YES	5	-	18	-	15.6
VOC	1,2-DICHLOROPROPANE	ug/l			5		32	0	0	-	-	1.0	8,000	-	-	-	23	-	-
VOC	1,3,5-TRICHLOROBENZENE	ug/l	✓	✓	NE	NE	21	1	4.8	1.1	1.1	2.0	8,000	-	-	-	-	-	-
VOC	1,3,5-TRIMETHYLBENZENE	ug/l	✓	✓		12.3	32	0	0	-	-	1	8000	-	-	-	-	23	-
VOC	1,3-DICHLOROBENZENE	ug/l	✓	✓	NE	183	58	25	43.1	0.24	16,000	2.0	2,000	-	-	9	-	14	-
VOC	1,3-DICHLOROPROPANE	ug/l	✓			122	32	0	0	-	-	1	20000	-	-	-	-	19	-

TABLE 4-5

PREVALENCE TABLE
SITE-RELATED CHEMICALS IN FINE-GRAINED UPPER MUDDY CREEK FORMATION GROUNDWATER

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

GROUP	CHEMICAL	UNITS	MONTROSE SRC	STAUFFER SRC	MCL	PRG	TOTAL ANALYSES	NUMBER DETECTS	PERCENT DETECTIONS	MINIMUM DETECTED VALUE	MAXIMUM DETECTED VALUE	MINIMUM DETECTION LIMIT	MAXIMUM DETECTION LIMIT	EXCEEDS MCL?	NUMBER DETECTS > MCL	NUMBER DETECTS > PRG (IF NO MCL)	NUMBER NDS > MCL	NUMBER NDS > PRG (IF NO MCL)	PERCENT DETECTIONS >MCL
VOC	1,4-DICHLOROBENZENE	ug/l	✓	✓	75	0.502	57	45	78.9	1.2	24,000	1.0	2,000	YES	35	-	4	-	61.4
VOC	2-BUTANONE	ug/l	✓		NE	6968	21	1	4.8	5.1	5.1	5.0	40,000	-	-	-	-	2	-
VOC	2-CHLOROTOLUENE	ug/l	✓		NE	122	32	1	3.1	7.7	7.7	1.0	20,000	-	-	-	-	19	-
VOC	4-METHYL-2-PENTANONE	ug/l	✓		NE	1993	21	3	14.3	0.42	5.6	5.0	40,000	-	-	-	-	9	-
VOC	ACETONE	ug/l	✓	✓	NE	5475	21	1	4.8	3.7	3.7	2.0	40,000	-	-	-	-	2	-
VOC	ACETONITRILE	ug/l				103	5	0	0	-	-	10	1000	-	-	-	-	1	-
VOC	BENZENE	ug/l	✓	✓	5	0.354	31	25	80.6	68	300,000	1.0	39	YES	25	-	1	-	80.6
VOC	BROMOBENZENE	ug/l	✓			20.3	32	0	0	-	-	1	20000	-	-	-	-	23	-
VOC	BROMODICHLOROMETHANE	ug/l			80	0.181	32	1	3.1	0.49	0.49	1.0	8,000	-	-	-	19	-	-
VOC	BROMOFORM	ug/l	✓		80	NE	32	0	0	-	-	1.0	20,000	-	-	-	22	-	-
VOC	BROMOMETHANE	ug/l				8.66	32	0	0	-	-	2	20000	-	-	-	-	24	-
VOC	CARBON DISULFIDE	ug/l		✓	NE	1043	21	2	9.5	0.55	200	1.0	20,000	-	-	-	-	9	-
VOC	CARBON TETRACHLORIDE	ug/l	✓	✓	5	0.171	32	12	37.5	2.5	6,200	1.0	20,000	YES	10		14	-	31.3
VOC	CHLOROBENZENE	ug/l	✓	✓	100	106	31	27	87.1	3.9	320,000	1.0	130	YES	23	-	1	-	74.2
VOC	CHLOROETHANE	ug/l	✓			4.64	32	0	0	-	-	2	20000	-	-	-	-	29	-
VOC	CHLOROFORM	ug/l	✓	✓	80	0.166	31	28	90.3	2.0	140,000	33	2,000	YES	21	-	2	-	67.7
VOC	CHLOROMETHANE	ug/l	✓			158	32	0	0	-	-	2	20000	-	-	-	-	20	-
VOC	CIS-1,2-DICHLOROETHENE	ug/l	✓		70	NE	32	0	0	-	-	1.0	8,000	-	-	-	20	-	-
VOC	CIS-1,3-DICHLOROPROPENE	ug/l				0.395	32	0	0	-	-	1	8000	-	-	-	-	32	-
VOC	DIBROMOCHLOROMETHANE	ug/l	✓		80	0.133	32	2	6.2	0.24	0.47	1.0	8,000	-	-	-	19	-	-
VOC	DIBROMOMETHANE	ug/l				60.8	32	0	0	-	-	1	8000	-	-	-	-	20	-
VOC	DICHLORODIFLUOROMETHANE	ug/l	✓			395	32	0	0	-	-	2	20000	-	-	-	-	18	-
VOC	DIMETHYL DISULFIDE	ug/l		✓	NE	NE	32	2	6.2	1.3	41	2.0	8,000	-	-	-	-	-	-
VOC	ETHANOL	ug/l	✓	✓	NE	NE	14	1	7.1	10,000	10,000	500	5,000	-	-	-	-	-	-
VOC	ETHYLBENZENE	ug/l	✓		700		32	0	0	-	-	1.0	8,000	-	-	-	10	-	-
VOC	HEXACHLOROBUTADIENE	ug/l	✓	✓		0.862	58	0	0	-	-	5	20000	-	-	-	-	58	-
VOC	ISOPROPYLBENZENE	ug/l	✓			658	32	0	0	-	-	1	8000	-	-	-	-	10	-
VOC	METHYLENE CHLORIDE	ug/l	✓	✓	5	4.28	31	10	32.3	0.85	4,800	1.0	20,000	YES	8	-	15	-	25.8
VOC	METHYL-TERT-BUTYL ETHER	ug/l				11.0	21	0	0	-	-	2	20000	-	-	-	-	14	-
VOC	NAPHTHALENE	ug/l	✓	✓		6.20	58	0	0	-	-	5	20000	-	-	-	-	53	-
VOC	N-BUTYLBENZENE	ug/l	✓			243	32	0	0	-	-	1	8000	-	-	-	-	16	-
VOC	NONANAL	ug/l		✓	NE	NE	16	1	6.2	16,000	16,000	5.0	5,000	-	-	-	-	-	-
VOC	N-PROPYLBENZENE	ug/l	✓			243	32	0	0	-	-	1	8000	-	-	-	-	15	-
VOC	O-XYLENE	ug/l	✓	✓	10,000	206	32	1	3.1	14	14	1.0	8,000	-	-	-	-	-	-
VOC	SEC-BUTYLBENZENE	ug/l	✓			243	32	0	0	-	-	1	20000	-	-	-	-	18	-
VOC	STYRENE	ug/l	✓		100		32	0	0	-	-	1.0	8,000	-	-	-	18	-	-
VOC	TERT- BUTYLBENZENE	ug/l	✓			243	32	0	0	-	-	1	20000	-	-	-		18	-
VOC	TETRACHLOROETHENE	ug/l	✓		5	0.104	32	3	9.4	0.23	36	2.0	8,000	YES	1	-	24	-	3.1
VOC	TOLUENE	ug/l	✓	✓	1,000	723	32	6	18.8	0.41	890	1.0	8,000	-	-	-	6	-	-
VOC	TOTAL XYLENES	ug/l	✓	✓	10,000	206	5	1	20	14	14	3.0	300	-	-	-	-	-	-
VOC	TRANS-1,2-DICHLOROETHENE	ug/l	✓		100		32	0	0	-	-	1.0	8,000	-	-	-	18	-	-
VOC	TRANS-1,3-DICHLOROPROPENE	ug/l	✓			0.395	32	0	0	-	-	1	8000	-	-	-	-	32	-
VOC	TRICHLOROETHENE	ug/l	✓		5		32	0	0	-	-	1.0	8,000	-	-	-	23	-	-
VOC	TRICHLOROFLUOROMETHANE	ug/l	✓			1288	32	0	0	-	-	1	20000	-	-	-	-	10	-
VOC	VINYL CHLORIDE	ug/l	✓		2		32	0	0	-	-	2.0	8,000	-	-	-	26	-	-

NOTES:
> - greater than
MCL - U.S. Environmental Protection Agency Primary Maximum Contaminant Level
mg/l - Milligrams per liter
NDS - Non-detects
NE - Not established
PCB - Polychlorinated biphenyl
PRG - U.S. Environmental Protection Agency, Region IX, Preliminary Remediation Goal for Tap Water
SRC - Site-related chemical
SVOC - Semi-volatile organic compound
TPH - Total petroleum hydrocarbons
ug/l - Micrograms per liter
umhos/cm - Micromhos per centimeter
VOC - Volatile organic compound

Original chemicals on the table that had detection limits > MCL or PRG.
Any new chemicals added to the table (previously all NDs) where one or more detection limit > MCL or PRG.

TABLE 4-6

PREVALENCE TABLE
SITE-RELATED CHEMICALS IN COARSE-GRAINED UPPER MUDDY CREEK FORMATION GROUNDWATER

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

GROUP	CHEMICAL	UNITS	MONTROSE SRC	STAUFFER SRC	MCL	PRG	TOTAL ANALYSES	NUMBER DETECTS	PERCENT DETECTIONS	MINIMUM DETECTED VALUE	MAXIMUM DETECTED VALUE	MINIMUM DETECTION LIMIT	MAXIMUM DETECTION LIMIT	EXCEEDS MCL?	NUMBER DETECTS > MCL	NUMBER DETECTS > PRG (IF NO MCL)	NUMBER NDS > MCL	NUMBER NDS > PRG (IF NO MCL)	PERCENT DETECTIONS >MCL
ALDEHYDES	ACETALDEHYDE	ug/L	✓		NE	1.75	1	1	100	5.6	5.6	-	-	-	-	1	-	-	-
GENERAL CHEMICAL	TOTAL DISSOLVED SOLIDS	mg/l	✓	✓	NE	NE	16	16	100	640	790	-	-	-	-	-	-	-	-
HERBICIDE	MOLYBDENUM	mg/l	✓		NE	0.183	1	1	100	0.023	0.023	-	-	-	-	-	-	-	-
INDICATOR CHEMICAL	ALKALINITY AS CACO3	mg/l			NE	NE	1	1	100	68	68	-	-	-	-	-	-	-	-
INDICATOR CHEMICAL	ALKALINITY, BICARBONATE (AS CACO3)	mg/l			NE	NE	1	1	100	68	68	-	-	-	-	-	-	-	-
INDICATOR CHEMICAL	CHLORIDE	mg/l	✓		NE	NE	1	1	100	230	230	-	-	-	-	-	-	-	-
INDICATOR CHEMICAL	IRON	mg/l	✓	✓	NE	10.9	1	1	100	11	11	-	-	-	-	1	-	-	-
INDICATOR CHEMICAL	PH	pH units	✓		NE	NE	1	1	100	8.1	8.1	-	-	-	-	-	-	-	-
INDICATOR CHEMICAL	SODIUM	mg/l	✓	✓	NE	NE	1	1	100	160	160	-	-	-	-	-	-	-	-
INDICATOR CHEMICAL	SULFATE	mg/l	✓		NE	NE	1	1	100	240	240	-	-	-	-	-	-	-	-
INDICATOR CHEMICAL	SULFUR	mg/L	✓		NE	NE	1	1	100	75	75	-	-	-	-	-	-	-	-
INORGANIC	BICARBONATE	mg/l		✓	NE	NE	1	1	100	83	83	-	-	-	-	-	-	-	-
INORGANIC	FLUORIDE	mg/l	✓		4	2.19	1	1	100	0.89	0.89	-	-	-	-	-	-	-	-
INORGANIC	NITRATE	mg/l		✓	10	10.0	1	1	100	1.1	1.1	-	-	-	-	-	-	-	-
METAL	ALUMINUM	mg/l	✓	✓	NE	36.5	1	1	100	0.11	0.11	-	-	-	-	-	-	-	-
METAL	ANTIMONY	mg/L	✓	✓	0.006	0.0146	1	0	0	-	-	0.020	0.020	-	-	-	1	-	-
METAL	ARSENIC	mg/l	✓	✓	0.01	0.0000448	16	16	100	0.015	0.16	-	-	YES	16	-	-	-	100
METAL	BARIUM	mg/l	✓		2	2.55	16	16	100	0.025	0.061	-	-	-	-	-	-	-	-
METAL	BERYLLIUM	mg/L	✓	✓	0.004	0.0730	1	0	0	-	-	0.005	0.005	-	-	-	1	-	-
METAL	BORON	mg/l			NE	7.30	1	1	100	0.50	0.50	-	-	-	-	-	-	-	-
METAL	CADMIUM	mg/L	✓	✓	0.005	0.0183	16	0	0	-	-	0.001	0.01	-	-	-	7	-	-
METAL	CALCIUM	mg/l	✓	✓	NE	NE	1	1	100	52	52	-	-	-	-	-	-	-	-
METAL	CHROMIUM	mg/l	✓	✓	0.1	NE	16	14	87.5	9.20E-03	2.6	0.020	0.020	YES	4	-	-	-	25.0
METAL	COBALT	mg/l	✓	✓	NE	0.730	1	1	100	0.021	0.021	-	-	-	-	-	-	-	-
METAL	COPPER	mg/l	✓	✓	1.3	1.46	1	1	100	0.029	0.029	-	-	-	-	-	-	-	-
METAL	HEXAVALENT CHROMIUM	mg/l	✓	✓	NE	0.110	1	1	100	7.70E-03	7.70E-03	-	-	-	-	-	-	-	-
METAL	LEAD	mg/l	✓	✓	0.015	NE	16	2	12.5	1.20E-03	4.50E-03	0.0010	0.020	-	-	-	1	-	-
METAL	MAGNESIUM	mg/l	✓	✓	NE	NE	1	1	100	25	25	-	-	-	-	-	-	-	-
METAL	MANGANESE	mg/l	✓	✓	NE	0.876	1	1	100	0.34	0.34	-	-	-	-	-	-	-	-
METAL	NICKEL	mg/l	✓	✓	NE	0.730	1	1	100	0.35	0.35	-	-	-	-	-	-	-	-
METAL	PHOSPHORUS, TOTAL (AS P)	mg/l	✓	✓	NE	0.000730	2	1	50	0.033	0.033	0.50	0.50	-	-	1	-	1	-
METAL	POTASSIUM	mg/l	✓	✓	NE	NE	1	1	100	9.5	9.5	-	-	-	-	-	-	-	-
METAL	SELENIUM	mg/l	✓	✓	0.05	0.183	16	11	68.8	2.10E-03	3.80E-03	0.020	0.020	-	-	-	-	-	-
METAL	STRONTIUM	mg/l			NE	21.9	1	1	100	1.3	1.3	-	-	-	-	-	-	-	-
METAL	THALLIUM	mg/L	✓	✓	0.002	0.00241	1	0	0	-	-	0.020	0.020	-	-	-	1	-	-
METAL	VANADIUM	mg/l	✓	✓	NE	0.0365	1	1	100	0.074	0.074	-	-	-	-	1	-	-	-
PCB	AROCLOR-1016	ug/L	✓	✓	0.5	0.960	1	0	0	-	-	0.96	0.96	-	-	-	1	-	-
PCB	AROCLOR-1221	ug/L	✓	✓	0.5	NE	1	0	0	-	-	0.96	0.96	-	-	-	1	-	-
PCB	AROCLOR-1232	ug/L	✓	✓	0.5	NE	1	0	0	-	-	0.96	0.96	-	-	-	1	-	-
PCB	AROCLOR-1242	ug/L	✓	✓	0.5	NE	1	0	0	-	-	0.96	0.96	-	-	-	1	-	-
PCB	AROCLOR-1248	ug/L	✓	✓	0.5	NE	1	0	0	-	-	0.96	0.96	-	-	-	1	-	-
PCB	AROCLOR-1254	ug/L	✓	✓	0.5	0.0336	1	0	0	-	-	0.96	0.96	-	-	-	1	-	-
PCB	AROCLOR-1260	ug/L	✓	✓	0.5	NE	1	0	0	-	-	0.96	0.96	-	-	-	1	-	-
PCB	PCB 156 & 157	ug/L	✓		0.5	NE	1	1	100	1.20E-05	1.20E-05	-	-	-	-	-	-	-	-
PCB	PCB 167	ug/L	✓	✓	0.5	NE	1	1	100	5.40E-06	5.40E-06	-	-	-	-	-	-	-	-
PEST	ALDRIN	ug/L	✓	✓	NE	0.00395	16	0	0	-	-	0.094	4.7	-	-	-	-	16	-
PEST	CHLORDANE	ug/l			2	0.192	16	0	0	-	-	0.94	47	-	-	-	1	-	-
PEST	ENDRIN	ug/L	✓	✓	2	11.0	16	0	0	-	-	0.094	4.7	-	-	-	1	-	-
PEST	GAMMA-BHC (LINDANE)	ug/L	✓	✓	0.2	0.0517	16	0	0	-	-	0.094	4.7	-	-	-	1	-	-
PEST	HEPTACHLOR	ug/L			0.4	0.0149	16	0	0	-	-	0.094	4.7	-	-	-	1	-	-
PEST	HEPTACHLOR EPOXIDE	ug/L	✓	✓	0.2	0.00739	16	0	0	-	-	0.094	4.7	-	-	-	1	-	-
PEST	TOXAPHENE	ug/L			3	0.0611	16	0	0	-	-	4.7	240	-	-	-	16	-	-
PESTICIDE	2,4'-DDD	ug/l	✓	✓	NE	NE	16	1	6.2	0.036	0.036	0.094	4.7	-	-	-	-	-	-
PESTICIDE	4,4'-DDT	ug/l	✓	✓	NE	0.198	16	1	6.2	0.040	0.040	0.094	4.7	-	-	-	-	1	-
PESTICIDE	ALPHA-BHC	ug/l	✓	✓	NE	0.0107	16	2	12.5	0.023	0.073	0.094	4.7	-	-	2	-	14	-
PESTICIDE	DELTA-BHC	ug/l	✓	✓	NE	NE	16	1	6.2	0.039	0.039	0.19	9.4	-	-	-	-	-	-
SVOC	3,3'-DICHLOROBENZIDINE	ug/L			NE	0.149	16	0	0	-	-	19	21	-	-	-	-	16	-
SVOC	3-NITROANILINE	ug/L			NE	3.20	16	0	0	-	-	19	21	-	-	-	-	16	-
SVOC	4,6-DINITRO-2-METHYLPHENOL	ug/L			NE	3.65	16	0	0	-	-	19	21	-	-	-	-	16	-
SVOC	4-NITROANILINE	ug/L			NE	3.20	16	0	0	-	-	19	21	-	-	-	-	16	-
SVOC	AZOBENZENE	ug/L			NE	0.611	16	0	0	-	-	19	21	-	-	-	-	16	-
SVOC	BENZIDINE	ug/L			NE	0.000290	10	0	0	-	-	19	20	-	-	-	-	10	-
SVOC	BENZO(A)ANTHRACENE	ug/L		✓	NE	0.0921	16	0	0	-	-	9.4	10	-	-	-	-	16	-

TABLE 4-6

PREVALENCE TABLE
SITE-RELATED CHEMICALS IN COARSE-GRAINED UPPER MUDDY CREEK FORMATION GROUNDWATER

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

GROUP	CHEMICAL	UNITS	MONTROSE SRC	STAUFFER SRC	MCL	PRG	TOTAL ANALYSES	NUMBER DETECTS	PERCENT DETECTIONS	MINIMUM DETECTED VALUE	MAXIMUM DETECTED VALUE	MINIMUM DETECTION LIMIT	MAXIMUM DETECTION LIMIT	EXCEEDS MCL?	NUMBER DETECTS > MCL	NUMBER DETECTS > PRG (IF NO MCL)	NUMBER NDS > MCL	NUMBER NDS > PRG (IF NO MCL)	PERCENT DETECTIONS >MCL
SVOC	BENZO(A)PYRENE	ug/L	✓	✓	0.2	0.00921	11	0	0	-	-	0.020	10	-	-	-	10		-
SVOC	BENZO(B)FLUORANTHENE	ug/L		✓	NE	0.0921	16	0	0	-	-	9.4	10	-	-	-	-	16	-
SVOC	BENZO(K)FLUORANTHENE	ug/L		✓	NE	0.921	16	0	0	-	-	9.4	10	-	-	-	-	16	-
SVOC	BENZOIC ACID	ug/l	✓	✓	NE	145979	16	1	6.2	16	16	19	21	-	-	-	-	-	-
SVOC	BENZYL ALCOHOL	ug/l			NE	10950	16	1	6.2	13	13	19	21	-	-	-	-	-	-
SVOC	BIS(2-CHLOROETHYL)ETHER	ug/L			NE	0.0102	16	0	0	-	-	9.4	10	-	-	-	-	16	-
SVOC	BIS(2-CHLOROISOPROPYL)ETHER	ug/L			NE	0.274	16	0	0	-	-	9.4	10	-	-	-	-	16	-
SVOC	BIS(2-ETHYLHEXYL)PHTHALATE	ug/L	✓	✓	6	4.80	16	0	0	-	-	47	52	-	-	-	16		-
SVOC	CHRYSENE	ug/L	✓	✓	NE	9.21	16	0	0	-	-	9.4	10	-	-	-	-	16	-
SVOC	DIBENZO(A,H)ANTHRACENE	ug/L		✓	NE	0.00921	16	0	0	-	-	19	21	-	-	-	-	16	-
SVOC	HEXACHLOROBENZENE	ug/L	✓	✓	1	0.0420	11	0	0	-	-	0.1	10	-	-	-	10		-
SVOC	INDENO(1,2,3-CD)PYRENE	ug/L		✓	NE	0.0921	16	0	0	-	-	19	21	-	-	-	-	16	-
SVOC	NITROBENZENE	ug/L			NE	3.40	16	0	0	-	-	19	21	-	-	-	-	16	-
SVOC	N-NITROSODIMETHYLAMINE	ug/L			NE	0.00132	6	0	0	-	-	19	21	-	-	-	-	6	-
SVOC	N-NITROSO-DI-N-PROPYLAMINE	ug/L			NE	0.00960	16	0	0	-	-	9.4	10	-	-	-	-	16	-
SVOC	PENTACHLOROPHENOL	ug/L	✓		1	0.560	11	0	0	-	-	0.2	20	-	-	-	10		-
TPH	EFH (C8 - C40)	mg/l	✓	✓	NE	NE	1	1	100	0.078	0.078	-	-	-	-	-	-	-	-
TPH	VOLATILE FUEL HYDROCARBONS (C6-C12)	mg/l	✓	✓	NE	NE	1	1	100	0.47	0.47	-	-	-	-	-	-	-	-
VOC	1,1,1,2-TETRACHLOROETHANE	ug/L	✓		NE	0.432	16	0	0	-	-	5	12	-	-	-	-	16	-
VOC	1,1,2,2-TETRACHLOROETHANE	ug/L	✓		NE	0.0553	16	0	0	-	-	2	5	-	-	-	-	16	-
VOC	1,1-DICHLOROETHENE	ug/L	✓		7	339	16	0	0	-	-	5	12	-	-	-	1	-	-
VOC	1,2,3-TRICHLOROPROPANE	ug/L	✓		NE	0.00560	16	0	0	-	-	10	25	-	-	-		16	-
VOC	1,2-DIBROMO-3-CHLOROPROPANE	ug/L	✓		0.2	0.0476	11	0	0	-	-	0.023	5	-	-	-	10	-	-
VOC	1,2-DIBROMOETHANE	ug/L			0.05	0.00560	11	0	0	-	-	0.011	2	-	-	-	10	-	-
VOC	1,2-DICHLOROBENZENE	ug/l	✓	✓	600	370	32	1	3.1	1.9	1.9	2.0	10	-	-	-	-	-	-
VOC	1,4-DICHLOROBENZENE	ug/l	✓	✓	75	0.502	32	2	6.2	2.6	3.8	2.0	10	-	-	-	-	-	-
VOC	BENZENE	ug/l	✓	✓	5	0.354	16	2	12.5	0.76	140	2.0	2.0	YES	1	-	-	-	6.3
VOC	BROMOMETHANE	ug/L			NE	8.66	16	0	0	-	-	5	12	-	-	-	-	1	-
VOC	CARBON TETRACHLORIDE	ug/L	✓	✓	5	0.171	16	0	0	-	-	5	12	-	-	-	1	-	-
VOC	CHLOROBENZENE	ug/l	✓	✓	100	106	16	6	37.5	0.39	150	2.0	2.0	YES	1	-	-	-	6.3
VOC	CHLOROETHANE	ug/L	✓		NE	4.64	16	0	0	-	-	5	12	-	-	-	-	16	-
VOC	CHLOROFORM	ug/l	✓	✓	80	0.166	16	1	6.2	51	51	2.0	2.0	-	-	-	-	-	-
VOC	CIS-1,3-DICHLOROPROPENE	ug/L			NE	0.395	16	0	0	-	-	2	5	-	-	-	-	16	-
VOC	HEXACHLOROBUTADIENE	ug/L	✓	✓	NE	0.862	32	0	0	-	-	5	12	-	-	-	-	32	-
VOC	METHYLENE CHLORIDE	ug/L	✓	✓	5	4.28	16	0	0	-	-	5	12	-	-	-	1		-
VOC	METHYL-TERT-BUTYL ETHER	ug/L			NE	11.0	6	0	0	-	-	5	12	-	-	-	-	1	-
VOC	NAPHTHALENE	ug/L	✓	✓	NE	6.20	32	0	0	-	-	5	12	-	-	-	-	17	-
VOC	NONANAL	ug/l		✓	NE	NE	6	1	16.7	5.9	5.9	5.0	12	-	-	-	-	-	-
VOC	TOLUENE	ug/l	✓	✓	1,000	723	16	1	6.2	0.56	0.56	2.0	5.0	-	-	-	-	-	-
VOC	TRANS-1,3-DICHLOROPROPENE	ug/L	✓		NE	0.395	16	0	0	-	-	2	5	-	-	-	-	16	-
VOC	VINYL CHLORIDE	ug/L	✓		2	0.0198	16	0	0	-	-	2	5	-	-	-	11	-	-

NOTES:

> - greater than
MCL - U.S. Environmental Protection Agency Primary Maximum Contaminant Level
mg/l - Milligrams per liter
NDS - Non-detects
NE - Not established
PCB - Polychlorinated biphenyl
PRG - U.S. Environmental Protection Agency, Region IX, Preliminary Remediation Goal for Tap Water
SRC - Site-related chemical
SVOC - Semi-volatile organic compound
TPH - Total petroleum hydrocarbons
ug/l - Micrograms per liter
umhos/cm - Micromhos per centimeter
VOC - Volatile organic compound

Original chemicals on the table that had detection limits > MCL or PRG.
Any new chemicals added to the table (previously all NDs) where one or more detection limit > MCL or PRG.

TABLE 4-7
CHEMICALS EXCEEDING PRELIMINARY SITE SCREENING LEVELS

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

GROUP	CHEMICAL	PRG mg/kg	MAX SOIL CONCENTRATION mg/kg	MCL ug/l	MAX GW CONCENTRATION ug/l	MAX % DETECTIONS > PRG (1)	MAX % DETECTIONS > MCL (2)	RETAINED BASED ON PREVALENCE -REL TOXICITY
DIOXINS/FURANS	2,3,7,8-TCDD	1.60E-05	2.45E-05	3.0E.-05	4.10E-04	9	2.1	Yes
INORGANIC	FLUORIDE	36,900	18	4	16	0	19.4	Yes
INORGANIC	NITRATE	NE	29	10	67	NE	12.2	Yes
INORGANIC	NITRITE	NE	ND	1	4	NE	9.1	Yes
METAL	ARSENIC	1.59	25	0.01	2.7	93.2	100	Yes
METAL	BERYLLIUM	1940	1.1	4.00E-03	0.021	0	1.1	No
METAL	CADMIUM	451	0.94	5.00E-03	7.40E-03	0	0.6	No
METAL	CHROMIUM	448	50	0.1	4.3	0	2.5	Yes
METAL	CYANIDE	12,300	1.6	0.2	0.23	0	1.1	No
METAL	LEAD	800	300	0.15	0.18	0	5.4	Yes
METAL	SELENIUM	5,110	0.31	0.05	0.074	0	0.6	No
METAL	THALLIUM	67.5	0.79	2.00E-03	4.80E-03	0	7.1	Yes
METAL	URANIUM	NA	NA	30	191	--	41.7	Yes
PCB	2,4'-DICB-(8)	NE	0.95	0.5	0.62	NE	16.7	No
PCB	22'-DICB-(4)	NE	0.78	0.5	3.7	NE	16.7	No
PCB	AROCLOR-1254	0.744	18	0.5	ND	17	0	Yes
PESTICIDE	4,4'-DDD	9.95	110	NE	15	1	NE	No
PESTICIDE	4,4'-DDE	7.02	170	NE	150	6.2	NE	Yes
PESTICIDE	4,4'-DDT	7.02	1,300	NE	780	7.8	NE	Yes
PESTICIDE	ALPHA-BHC	0.359	9,300	NE	1,300	21	NE	Yes
PESTICIDE	BETA-BHC	1.26	330	NE	130	56	NE	Yes
PESTICIDE	DIELDRIN	0.108	3	NE	0.86	1.2	NE	No
PESTICIDE	GAMMA-BHC (LINDANE)	1.74	22,000	0.2	780	8	51.6	Yes
PESTICIDE	HEPTACHLOR EPOXIDE	0.189	0.2	0.2	ND	0.3	0	No
SVOC	BENZO(A)PYRENE	0.211	0.68	0.2	ND	4	0	No
SVOC	BIS(2-ETHYLHEXYL)PHTHALATE	123	1.1	6	9.3	0	3	Yes
SVOC	PENTACHLOROPHENOL	9	4.2	1	3.1	0	1.3	No
SVOC	1,2,4-TRICHLOROBENZENE	216	3,800	70	1,300	0.8	11	Yes
SVOC	HEXACHLOROBENZENE	1.08	7	1	3.2	7	4	Yes

TABLE 4-7
CHEMICALS EXCEEDING PRELIMINARY SITE SCREENING LEVELS

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

GROUP	CHEMICAL	PRG mg/kg	MAX SOIL CONCENTRATION mg/kg	MCL ug/l	MAX GW CONCENTRATION ug/l	MAX % DETECTIONS > PRG (1)	MAX % DETECTIONS > MCL (2)	RETAINED BASED ON PREVALENCE -REL TOXICITY
VOC	1,1,1,2-TETRACHLOROETHANE	7.28	14	NE	ND	0.2	NE	No
VOC	1,1,2-TRICHLOROETHANE	1.61	8.30E-03	5	34	0	2.1	Yes
VOC	1,1-DICHLOROETHENE	413	0.66	7	8.1	0	0.3	No
VOC	1,2-DIBROMO-3-CHLOROPROPANE	2.02	1.2	0.2	33	0	4.5	Yes
VOC	1,2-DIBROMOETHANE	0.073	ND	0.05	112	0	0.5	No
VOC	1,2-DICHLOROBENZENE	600	9,600	600	36,000	3.7	47.4	Yes
VOC	1,2-DICHLOROETHANE	0.603	0.25	5	230	0	15.6	Yes
VOC	1,2-DICHLOROPROPANE	0.742	ND	5	21	0	0.3	No
VOC	1,4-DICHLOROBENZENE	7.87	21,000	75	44,000	15.2	61.4	Yes
VOC	BENZENE	1.41	4,700	5	700,000	45.2	80.6	Yes
VOC	CARBON TETRACHLORIDE	0.549	750	5	6,200	11.4	31.3	Yes
VOC	CHLOROBENZENE	530	42,000	100	320,000	9.7	74.2	Yes
VOC	CHLOROFORM	0.47	2,100	80	140,000	45.2	67.7	Yes
VOC	METHYLENE CHLORIDE	20.5	1.6	5	5,100	0	25.8	Yes
VOC	STYRENE	1,700	1.10E-03	100	190	0	0.3	No
VOC	TETRACHLOROETHENE	1.31	3.8	5	730	0.6	13.7	Yes
VOC	TOTAL THM	NE	2,100	80	97,000	NE	75	Yes
VOC	TRICHLOROETHENE	0.115	ND	5	700	0	12.2	Yes
VOC	VINYL CHLORIDE	0.746	ND	2	3.4	0	0.6	No

Notes:
PRG - U.S. Environmental Protection Agency, Region IX, Preliminary Remediation Goal for Industrial Soil
MCL - U.S. EPA Primary Maximum Contaminant Level
ND - Not detected
NE - Not established
NA - Not analyzed
-- - Did not exceed PRG or MCL
SVOC - Semi-volatile organic compound
VOC - Volatile organic compound
(1) used the maximum value from among Tables 4-1 through 4-3
(2) used the maximum value from among Tables 4-4 through 4-6

TABLE 4-8
PHYSIOCHEMICAL PROPERTIES OF REPRESENTATIVE SITE-RELATED CHEMICALS

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

Compound	CAS Number	MOLECULAR WEIGHT (g/mol)	DENSITY (g/cm^3)	VAPOR PRESSURE @ 25°C (mm Hg)	HENRY'S LAW CONSTANT ($atm\text{-}m^3/mol$)	WATER SOLUBILITY at 25°C (mg/L)	ORGANIC CARBON PARTITION COEFFICIENT (log K_{oc})	OCTANOL WATER PARTITION COEFFICIENT (log K_{ow})
VOCs								
Benzene	71-43-2	78.11	0.87891	93.56	5.55E-03	1,750	1.39 - 2.82	1.95 - 2.20
Chlorobenzene	108-90-7	112.56	1.0646	11.86	3.70E-03	472	1.91 - 2.59	2.65 - 2.98
1,2-Dichlorobenzene	95-50-1	147.00	1.30024	1.5	1.90E-03	156	2.26 - 3.49	3.34 - 3.75
1,4-Dichlorobenzene	106-46-7	147.00	1.2475	0.7	2.43E-03	73.8	2.44 - 3.53	3.36 - 3.62
Chloroform	67-66-3	119.38	1.4832	198	3.67E-03	7,920	1.44 - 1.88	1.90 - 2.00
Carbon tetrachloride	56-23-5	153.82	1.5844	113	0.0304	793	1.78 - 2.62	2.73 - 2.83
Tetrachloroethene (PCE)	127-18-4	165.83	1.623	20	0.0184	200	2.25 - 3.04	2.10 - 2.60
1,1,2-Trichloroethane (TCA)	79-00-5	133.4	1.33	100	0.0172	1500	2.00-2.25	2.17-2.51
Trichloroethylene (TCE)	79-01-6	131.4	1.3	58	0.0103	1100	1.97-2.00	2.29-2.71
1,2-Dichloroethane (1,2 DCA)	107-06-2	99	1.235	81.1	9.79E-04	8520	1.15-1.58	1.45-1.48
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	236.33	2.08	0.8	1.50E-04	1230	1.94-2.15	2.26-2.96
Methylene Chloride	75-09-2	84.932	1.3266	436.65	0.0022	13200	0.94-1.68	1.25-1.30
Total Trihalomethane (THM)	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs								
1,2,4-Trichlorobenzene	120-82-1	181.45	1.446	0.29	1.42E-03	31.3	2.73 - 5.11	3.63 - 4.23
Bis(4-chlorophenyl) disulfide	1142-19-4	287.23	NA	3.64E-06	2.66E-05	0.242	NA	5.60
Bis(2-ethylhexyl)phthalate	117-81-7	390.56	0.981	9.75E-06	1.02E-07	0.335	4.00-9.30	3.89-9.61
Hexacholorbenzene	118-74-1	284.78	2.044	1.09E-05	1.32E-03	0.005	3.58-6.08	3.93-6.81
PESTICIDES								
Alpha-BHC	319-84-6	290.83	1.87	1.73E-03	5.30E-06	2	3.01 - 3.46	3.46 - 3.81
Beta-BHC	319-85-7	290.83	1.89	4.66E-07	2.30E-07	0.24	3.32 - 3.55	3.80 - 4.50
Gamma-BHC (Lindane)	319-86-8	290.83	1.87	3.50E-05	2.50E-07	10	3.3 - 3.8	2.80 - 4.14
4,4-DDT	50-29-3	354.49	1.56	1.00E-07	3.80E-05	0.006	5.14 - 6.70	4.89 - 6.38
4,4-DDE	72-55-9	319.03	NA	7.40E-06	1.22E-03	0.04	4.42 - 6.60	5.69 - 6.96
Carbophenothion	786-19-6	342.85	1.27	3.00E-07	2.15E-07	0.34	NA	5.10 - 5.33
ORGANIC ACIDS								
Dimethyl phosphorodithioic acid (DMPT)	26377-29-7	158.18	NA	3.67E-08	NA	934,000	NA	-1.44
METALS								
Arsenic	7440-38-2	74.92	5.73	NA	NA	Insoluble	NA	0.68
Chromium	7440-47-3	51.97	7.14	NA	NA	Insoluble	NA	NA
Lead	7439-92-1	207.20	11.34	NA	NA	Insoluble	NA	NA
Thallium	7440-28-0	204.38	11.85	NA	NA	Insoluble	NA	0.23
Uranium	7440-61-1	238.03	19.06	NA	NA	Insoluble	NA	NA
PCBs								
Arochlor 1254	11097-69-1	327.00	1.505	0.01	3.40E-04	0.012	4.25	6.3
DIOXIN/FURAN								
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746-01-6	321.98	1.827	7.40E-10	5.40E-23	2.00E-04	6.30 - 7.25	5.38 - 7.02
GENERAL CHEMICALS								
Fluoride	16984-48-8	19.00						
Nitrate	14797-55-8	62.00	1.25					
Nitrite	14797-65-0	14.01	1.25					
Total Dissolved Solids (TDS)	10-33-3	NA	NA	NA	NA	NA	NA	NA

Notes:
CAS = Chemical Abstract Service
g/mol = Grams per mole
g/cm^3 = Grams per cubic centimeter
mm Hg = Millimeters of mercury
VOCs - volatile organic compounds
SVOCs - semi-volatile organic compounds
$atm\text{-}m^3/mol$ = Atmosphere-cubic meters per mole
mg/L = Milligrams per liter
NA = Not readily available

TABLE 4-8A
PHYSIOCHEMICAL PROPERTIES OF REPRESENTATIVE SITE-RELATED CHEMICAL

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

	FREQUENCY DETECTED > MRL Low<10%< High		RELATIVE TOXICITY				PHYSICAL-CHEMICAL PROPERTIES							RETAINED AS REPRESENTATIVE SRC YES/NO	NOTES (See SC Notes)
	SOIL	GROUNDWATER	COMPARISON LEVELS Low<10 mg/kg or ug/l< High		SAMPLES >COMPARISON LEVEL Low <10%< High		MOLECULAR WEIGHT (g/mol) Low<200<High	DENSITY (g/cm^3) Low<1<High	VAPOR PRESSURE @ 25°C (mm Hg) Low<0.01<High	HENRY'S LAW CONS (atm-m^3/mol) Low<E-04<High	SOLUBILITY MG/L Low< 10,000<High	ORGANIC CARBON PART COEF (log K_{oc})**	OCTANOL WATER PART COEF (log K_{ow})**		
			SOIL -PRG mg/kg	GROUNDWATER MCL ug/l	SOIL PRG	GROUNDWATER MCL									
VOLATILE ORGANIC COMPOUNDS															
Range of Values	0 to 61.4	4.9 to 83.3	0.47 to 600	5 to 600	0 to 45.2	2.1 to 80.6	78.1 to 236	0.87 to 2.08	0.7 to 436	9.79E-04 to 0.01	73.8 to 1,750	0.94 to 3.53	1.25 to 3.75		
Benzene	High	High	High	High	High	High	Low	Low	High	High	Low	Low	Low	YES	P, RT, LNAPL
Chlorobenzene	High	High	Low	High	Low	High	Low	High	High	High	Low	Low	Low	YES	P, RT, DNAPL
1,2-Dichlorobenzene	High	High	Low	Low	Low	High	Low	High	High	High	Low	Low	High	YES	P, RT, DNAPL
1,4-Dichlorobenzene	High	High	High	High	Low	High	Low	High	High	High	Low	High	High	YES	P, RT, DNAPL
Chloroform	High	High	High	High	High	High	Low	High	High	High	Low	Low	Low	YES	P, RT, VP
Carbon tetrachloride	High	Low	High	High	High	High	Low	High	High	High	Low	Low	Low	YES	P, RT, DNAPL
Tetrachloroethene (PCE)	High	High	High	High	Low	High	Low	High	High	High	Low	Low	Low	YES	P, RT, DNAPL
1,1,2-Trichloroethane (TCA)	Low	Low	High	High	Low	Low	Low	High	High	High	Low	Low	Low	NO	LP, Sim PRT , Sim Phys
1,2-Dichloroethane (1,2 DCA)	Low	High	High	High	Low	High	Low	High	High	High	Low	Low	Low	NO	LP, Sim PRT , Sim Phys
Methylene Chloride	Low	High	High	High	Low	High	Low	High	High	High	Low	Low	Low	NO	LP, Sim PRT , Sim Phys
Trichloroethylene (TCE)	Low	High	High	High	Low	High	Low	High	High	High	Low	Low	Low	NO	LP, Sim PRT , Sim Phys
1,2-Dibromo-3-chloropropane (DBCP)	Low	Low	High	High	Low	Low	High	High	High	High	Low	Low	Low	NO	LP, Sim PRT , Sim Phys
Total Trihalomethane (THM)	Low	High	NE	High	Low	High	NA	NA	NA	NA	NA	NA	NA	NO	LP, Sim PRT , Sim Phys
SEMI-VOLATILE ORGANIC COMPOUNDS															
Range of Values	3.6 to 33.6	1.3 to 34.9	1.08 to 170	1 to 70	0 to 7	0 to 11	181 to 390	0.98 to 2.04	3E-06 to 0.29	1E-07 to 1E-03	0.005 to 31.3	2.73 to 9.3	3.63 to 9.61		
1,2,4-Trichlorobenzene	High	High	Low	High	Low	High	Low	High	High	High	Low	High	High	YES	P, RT, DNAPL
Bis(4-chlorophenyl) disulfide	Low	Low	NE	NE	NE	Low	High	NA	Low	High	Low	NA	High	YES	R,RT,
Hexacholorbenzene	High	Low	High	High	Low	Low	High	High	Low	High	Low	High	High	NO	Sim PRT , Sim Phys
Bis(2-ethylhexyl)phthalate	Low	Low	Low	High	Low	Low	High	Low	Low	Low	Low	High	High	NO	LR, Sim PRT , Sim Phys
PESTICIDES GROUP															
Range of Values	20.2 to 86.4	2.2 to 67	0.359 to 9.95	0.2 to 276	6.2 to 56	0 to 51.6	290 to 354	1.27 to 1.89	1E-07 to 1.7E-03	2.1E-07 to 1.2E-03	0.04 to 10	3.01 to 6.7	2.8 to 6.96		
Alpha-BHC	High	High	High	Low	High	Low	High	High	Low	Low	Low	High	High	YES	P, RT
Beta-BHC	High	High	High	Low	High	Low	High	High	Low	Low	Low	High	High	YES	P, RT
Gamma-BHC (Lindane)	High	High	High	High	Low	High	High	High	Low	Low	Low	High	High	YES	P, RT
4,4-DDT	High	Low	High	NE	Low	Low	High	High	Low	Low	Low	High	High	YES	P, RT
4,4-DDE	High	Low	High	NE	Low	NA	High	NA	Low	High	Low	High	High	YES	P, RT
Carbophenothion	High	Low	NE	NE	NA	NA	High	High	Low	Low	Low	NA	High	YES	P-soil
ORGANIC ACIDS GROUP															
Dimethyl phosphorodithioic acid (DMPT)	Low	High	NE	NE	NA	NA	L	NA	Low	NA	High	NA	Low	YES	P, only SRC in group
METAL GROUP															
Range of Values	0 to 100	16.1 to 96.4	1.59 to 800	0.1 to 15	0 to 93.2	3.4 to 100	51 to 238	5 to 19	NA	NA	E-5 to 1680	NA	0.2 to 0.68		
Arsenic	High	High	High	High	High	High	Low	High	NA	NA	Low	NA	Low	YES	P, RT - regional issue
Chromium	High	High	Low	High	Low	High	Low	High	NA	NA	Low	NA	NA	NO	Sim PRT, Sim Phys
Lead	High	High	Low	High	Low	Low	High	High	NA	NA	Low	NA	NA	NO	Sim PRT , Sim Phys
Thallium	High	High	High	High	Low	Low	High	High	NA	NA	Low	NA	Low	NO	Sim PRT , Sim Phys
Uranium	NA	High	High	Int	NA	High	High	High	NA	NA		NA	NA	NO	Sim PRT , Sim Phys
PCBs GROUP															
Arochlor 1254	High	Low	High	NE	17	0	High	High	Int	High	Low	High	High	YES	P, only SRC in group
DIOXIN/FURAN GROUP															
2,3,7,8-Tetrachlorodibenzo-p-dioxin	High	Low	High	High	Low	Low	High	High	Low	Low	Low	High	High	YES	P, only SRC in group
GENERAL CHEMICAL GROUP															
Range of Values	0 to 83	36 to 78	0.6 to 36,900	1 to 1,900	NA	9.1 to 73	14 to 62	NA	NA	NA					
Fluoride	High	High	Low	High	NA	Low	Low				Low			NO	LRT
Nitrate	High	High	High	High	NA	Low	Low	High			Low			NO	LRT
Nitrite	Low	High	NE	High	NA	Low	Low	High			Low			NO	LRT
Total Dissolved Solids (TDS)	NA	High	NE	***	NA	High	NA	NA	NA	NA	High	NA	NA	YES	P, ***

Notes:
Frequency Detected & Relative Toxicity values from Tables 4-1 thru 4-5 Physcical-Chemical Properties Data from Table 4-8rev

ug/l = micrograms/liter
mg/L = Milligrams per liter
g/mol = Grams per mole
g/cm^3 = Grams per cubic centimeter
mm Hg = Millimeters of mercury
atm-m^3/mol = Atmosphere-cubic meters per mole

NA = Not readily available
NE=Not Established
** = Partition Coefficients ratings = Low< 3 < High
*** = TDS has NDEP surface water limit in region of 1,900 milligrams/lite

SC = Selection Criteria:
P= Prevalent in soil or groundwater, LP =Low prevelance
RT = High Relative Toxicity, LRT = Low Relative Toxicity
LNAPL = low density, low solubility, potential NAPL former
DNAPL = High density, low solubility - potential NAPL former

VP = high vapor pressure + High Henry's constant - potential vapor transport
Sim P, RT - similar prevalence and relative toxicity to selected representative SRC
Sim Phys - similar physical-chemical properties to selected representative SRC
Yes-reatained as representative SRC No-retained as supplemental SRC

TABLE 4-9
SUMMARY OF SITE INVESTIGATIONS RELATED TO DENSE NON-AQUEOUS PHASE LIQUIDS

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

Potential Source Area	Associated Soil Boring Location ID	Associated Groundwater Monitoring Well Location ID	Characterization Description
Former Leach Field and Phosphoric Acid Pond/Trenches	SB-EC09	EC-09	• Soil boring SB-EC09 is located approximately 20 feet north of the Former Leach Field and Phosphoric Acid Pond/Trenches and was continuously cored to a depth of 65 feet bgs. • Elevated PID readings (exceeding 10,000 ppm) were measured in a black silt between approximately 50 and 60 feet bgs at SB-EC9 and decreased to 430 ppm at approximately 63 feet bgs. However, no evidence of NAPLs was identified in the continuous soil core obtained from SB-EC09 by visual examination of the soil core or field screening using the FLUTe ribbon. • Following the completion of soil boring SB-EC09 to groundwater monitoring well EC-09 (constructed with well screen interval and bottom sump specifically designed to detect LNAPLs and DNAPLs), the potential presence of NAPLs was also assessed using a product/water interface probe during the Phase I/II Site-Wide Groundwater Sampling Event. No evidence of NAPLs were detected in groundwater monitoring well EC-09 using this method.[(1)]
Former Agricultural Chemical Division Plant (Features including: maintenance shop, drum painting and asphalt spray booth, ACD warehouse, trithion plant, vapor-phase incinerator, phosphorus and phosphoric acid storage, phosphorus unloading area, and "waste treatment" area)	SB-EC13; SB-EC05; SB-EC12; SB-EC11	EC-06; EC-07	• Soil borings SB-EC05, SB-EC11, SB-EC12, and SB-EC13 are located within the footprint of the Former ACD Plant, and were continuously cored to depths ranging from 50 to 57 feet bgs. • Elevated PID readings (exceeding 5,000 and 10,000 ppm) were measured in the continuous soil cores for SB-EC12 (ranging from approximately 7 to at least 50 feet bgs) and SB-EC13 (ranging from approximately 36 and 41 feet bgs and decreasing to 2,300 and 3,000 ppm at approximately 43 and 48 feet bgs, respectively). However, no evidence of NAPLs were identified in the continuous soil cores obtained from the four borings (including SB-EC12 and SB-EC13) by visual examination of the soil core or field screening using the FLUTe ribbon. • Groundwater monitoring wells EC-06 and EC-07 are located approximately 120 and 250 feet north and downgradient of the Former ACD Plant, respectively, and are constructed with a well screen interval and bottom sump specifically designed to detect LNAPLs and DNAPLs. • The potential presence of NAPLs was assessed using a product/water interface probe during the Phase I/II Site-Wide Groundwater Sampling Event.

TABLE 4-9
SUMMARY OF SITE INVESTIGATIONS RELATED TO DENSE NON-AQUEOUS PHASE LIQUIDS

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

Potential Source Area	Associated Soil Boring Location ID	Associated Groundwater Monitoring Well Location ID	Characterization Description
Suspected Trithion Waste Storage Tanks	SB-EC07	EC-07	• Soil boring SB-EC07 is located approximately 30 feet north of the Suspected Trithion Waste Storage Tanks, and was continously cored to a depth of 74 feet bgs. • Elevated PID readings (ranging from 1,050 to 3,300 ppm) were measured between approximately 55 ant 62 feet bgs at SB-EC7 and decreased to 510 ppm at approximately 72 feet bgs. However, no evidence of NAPLs were identified in the continuous soil core obtained from SB-EC07 by visual examination of the soil core or field screening using the FLUTe ribbon. • Following the conversion of soil boring SB-EC07 to groundwater monitoring well EC-07 (constructed with a well screen interval and bottom sump specifically designed to detect LNAPLs and DNAPLs), the potential presence of NAPLs was also assessed using a product/water interface probe during the Phase I/II Site-Wide Groundwater Sampling Event. No evidence of NAPLs were detected in groundwater monitoring well EC-07 using this method.(1)
Former Lindane Plant	SB-EC01; SB-EC02		• Soil boring SB-EC01 is located approximately 30 feet east of the Former BHC Warehouse and was continously cored to 55 feet bgs. Soil boring SB-EC02 is located along the southern boundary of the Former Lindane Plant and was continously cored to 45 feet bgs. • Elevated PID readings were limited to measurements of 145 ppm and 239 ppm at 39 and 44 feet bgs, respectively. No evidence of NAPLs were identified in the continuous soil cores obtained from SB-EC01 and SB-EC-02 by visual examination of the soil core or field screening using the FLUTe ribbon.

TABLE 4-9
SUMMARY OF SITE INVESTIGATIONS RELATED TO DENSE NON-AQUEOUS PHASE LIQUIDS

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

Potential Source Area	Associated Soil Boring Location ID	Associated Groundwater Monitoring Well Location ID	Characterization Description
ACD Drum Burial Waste Management Area	SB-EC08	EC-08	• Soil boring SB-EC08 is located approximately 15 feet north of the ACD Drum Burial Waste Management Area, and was continuously cored to a depth of 54 feet bgs. • No evidence of NAPL was identified in the continuous soil core obtained from SB-EC8 by visual examination of the soil core or field screening using the PID and FLUTe ribbon. • Following the completion of soil boring SB-EC08 to groundwater monitoring well EC-08 (constructed with a well screen interval and bottom sump specifically designed to detect LNAPLs and DNAPLs), the potential presence of NAPLs was also assessed using a product/water interface probe during the Phase I/II Site-Wide Groundwater Sampling Event. No evidence of NAPLs were detected in groundwater monitoring well EC-08 using this method.(1)
Former Wastewater Ponds 1 and 2		EC-02; AA-BW-08B; MCF-BW-08; AA-BW-08A; B-14R; AA-BW-09A; EC-01; MCF-BW-09B	• Groundwater monitoring wells EC-02; AA-BW-08B; MCF-BW-08; AA-BW-08A; B-14R; AA-BW-09A; EC-01; and MCF-BW-09B are located at distances ranging from 5 to 50 feet north and downgradient of the Former Wastewater Ponds 1 and 2. • The potential presence of NAPLs in these eight groundwater monitoring wells was assessed using a product/water interface probe during the Phase I/II Site-Wide Groundwater Sampling Event. No evidence of NAPLs were detected in groundwater monitoring wells EC-02; AA-BW-08B; MCF-BW-08; AA-BW-08A; B-14R; AA-BW-09A; EC-01; and MCF-BW-09B using this method.(1)
Inactive ACD Ponds 1 and 2		MCF-BW-10A; B-18; B-19; B-17	• Groundwater monitoring wells MCF-BW-10A; B-18; B-19; and B-17 are located at distances ranging from 140 to 320 feet north and downgradient of Inactive ACD Ponds 1 and 2. • The potential presence of NAPLs in these four groundwater monitoring wells was assessed using a product/water interface probe during the Phase I/II Site-Wide Groundwater Sampling Event. No evidence of NAPLs were detected in groundwater monitoring wells MCF-BW-10A; B-18; B-19; and B-17 using this method.(1)

TABLE 4-9
SUMMARY OF SITE INVESTIGATIONS RELATED TO DENSE NON-AQUEOUS PHASE LIQUIDS

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

Potential Source Area	Associated Soil Boring Location ID	Associated Groundwater Monitoring Well Location ID	Characterization Description
Former BHC Cake Piles 1 and 2, and Former BHC Loader Haul Route	SB-EC04; SB-EC14		• Soil borings SB-EC04 and SB-EC14 are located within footprint of Former BHC Cake Piles 1 and 2, respectively, and were continuously cored to 45 and 47 feet bgs, respectively. • Elevated PID readings were limited to measurements ranging from 180 ppm to 879 ppm between 34 and 43 feet bgs in the soil core for SB-EC04. However, no evidence of NAPLs were identified in the continuous soil cores obtained from SB-EC04 and SB-EC14 by visual examination of the soil core or field screening using the FLUTe ribbon.
BHC Cake Pile 3	SB-EC10	EC-10; BHCMW-1	• Soil boring SB-EC10 is located approximately 20 feet north of BHC Cake Pile 3 and was continuously cored to a depth of 60 feet bgs. • No evidence of NAPLs were identified in the continuous soil core obtained from SB-EC10 by visual examination of the soil core or field screening using the PID and FLUTe ribbon. • Following the completion of soil boring SB-EC10 to groundwater monitoring well EC-10 (constructed with a well screen interval and bottom sump specifically designed to detect LNAPLs and DNAPLs), the potential presence of NAPLs was also assessed using a product/water interface probe during the Phase I/II Site-Wide Groundwater Sampling Event. No evidence of NAPLs were detected in groundwater monitoring well EC-10 or BHCMW-1 (located approximately 15 feet north and downgradient of BHC Cake Pile 3) using this method.(1)
Inactive CAPD Pond 6		B-12	• Groundwater monitoring well B-12 is located approximately 15 feet north of Inactive CAPD Pond 6. • The potential presence of NAPLs in groundwater monitoring well B-12 was assessed using a product/water interface probe during the Phase I/II Site-Wide Groundwater Sampling Event. No evidence of NAPLs were detected in groundwater monitoring well B-12 using this method.(1)

TABLE 4-9
SUMMARY OF SITE INVESTIGATIONS RELATED TO DENSE NON-AQUEOUS PHASE LIQUIDS

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

Potential Source Area	Associated Soil Boring Location ID	Associated Groundwater Monitoring Well Location ID	Characterization Description
CAPD Pond 7		AA-BW-08B; MCF-BW-08; B-14R	• Groundwater monitoring wells AA-BW-08B; MCF-BW-08; and B-14R are located at distances ranging from 15 to 60 feet north and downgradient of CAPD Pond 7. • The potential presence of NAPLs in these three groundwater monitoring wells was assessed using a product/water interface probe during the Phase I/II Site-Wide Groundwater Sampling Event. No evidence of NAPLs were detected in groundwater monitoring wells AA-BW-08B; MCF-BW-08; and B-14R using this method.(1)
Inactive CAPD Pond 8		EC-01; MCF-BW-09B	• Groundwater monitoring wells EC-01 and MCF-BW-09B are located approximately 20 and 60 feet north and downgradient of Inactive CAPD Pond 8, respectively. • The potential presence of NAPLs in these two groundwater monitoring wells was assessed using a product/water interface probe during the Phase I/II Site-Wide Groundwater Sampling Event. No evidence of NAPLs were detected in groundwater monitoring wells EC-01 and MCF-BW-09B using this method.(1)
Inactive Benzene Underground Storage Tanks	SB-EC03		• Soil boring SB-EC03 is located approximately 20 feet north of the Inactive Benzene Underground Storage Tanks and was continuously cored to 45 feet bgs. • Elevated PID readings (exceeding 5,000 and 10,000 ppm) were measured in the continuous soil core for SB-EC3 (ranging from approximately 42 to at least 44 feet bgs). However, no evidence of NAPLs were identified in the continuous soil core obtained from SB-EC03 by visual examination of the soil core or field screening using the FLUTe ribbon.

TABLE 4-9
SUMMARY OF SITE INVESTIGATIONS RELATED TO DENSE NON-AQUEOUS PHASE LIQUIDS

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

Potential Source Area	Associated Soil Boring Location ID	Associated Groundwater Monitoring Well Location ID	Characterization Description
Former Hydrochloric acid/Bischloromethylether Release Area	SB-EC08	EC-08	• Soil boring SB-EC08 is located approximately 20 feet south of the Former Hydrochloric acid/Bischloromethylether Release Area, and was continuously cored to a depth of 54 feet bgs. • No evidence of NAPLs were identified in the continuous soil core obtained from SB-EC8 by visual examination of the soil core or field screening using the PID and FLUTe ribbon. • Following the completion of soil boring SB-EC08 to groundwater monitoring well EC-08 (constructed with a well screen interval and bottom sump specifically designed to detect LNAPLs and DNAPLs), the potential presence of NAPLs was also assessed using a product/water interface probe during the Phase I/II Site-Wide Groundwater Sampling Event. No evidence of NAPLs were detected in groundwater monitoring well EC-08 using this method.(1)

TABLE 4-9
SUMMARY OF SITE INVESTIGATIONS RELATED TO DENSE NON-AQUEOUS PHASE LIQUIDS

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

Potential Source Area	Associated Soil Boring Location ID	Associated Groundwater Monitoring Well Location ID	Characterization Description
Former Plant Site: LOU Items; 1-Process Sewer System, 2-Former Organic Chemical Manufacturing Plant Site, 4-Hydrochloric Acid Truck Loading Station, 5-Release from "F"- Storage tank (1982), 13-Plant Perimeter Drain Ditch, 14-Stormwater Sewer System,- 20-Redwood Tank, 22-Settling Basin, 23-Chlorobenzene Spill (March 1984)	Vapor Extraction Well VEW-1 thru VEW-4, Soil Borings FPS- 1 thru FPS-16, FPS-1S, FPS-4S, FPS-6S,FPS-11S, FPS-16S, FPS-2D, FPS-8D, FPS-14D-FPS-18D thru FPS-22D, PSS-4S, DNAPL Boring RB-01 thru RB-04, RB-09, RB-12 and RB-15	Monitor Well B-01 thru B-15, MW-08, DPT-01, AA-MW-07, AA-MW-14, MC-MW-09 thru MC-MW-12, MC-Mw-15, Piezometers RB-02-PZ shallow and deep	• 16 shallow and deep soil borings were constructed, soil samples were collected and analyzed to help define the depth and lateral extent of SRCs in the Former Plant Site Area. • Seven DNAPL reconnaissance borings and five UMCf monitor well borings were constructed and soil cores were screened for the presence of residual DNAPL. Evidence of residual DNAPL including visual identification, elevated FID and PID readings and reaction to Flute® ribbon was sporadically detected in 5 of the borings in and down gradient of the FPS including RB-01, RB-02, RB-03, MC-MW-10 and MC-MW-12. • Two alluvial aquifer monitor wells constructed with screens across the water table and DNAPL traps to allow for collection of evidence of NAPL. The potential presence of NAPLs was also assessed using a product/water interface probe during the Phase I/II Site-Wide Groundwater Sampling Event. No evidence of NAPLs was detected in groundwater monitoring wells using this method[(1)]. • Five UMCf monitor wells were constructed with DNAPL traps to allow for collection of evidence of DNAPL. No evidence of NAPLs was detected in groundwater monitoring wells using this method[(1)]. • Groundwater samples were collected from new and existing monitor wells and analyzed for SRCs to help characterize groundwater in and downgradient of the FPS. • Short term aquifer testing in the UMCf was conducted at monitor well DPT-01 down gradient of the FPA.

TABLE 4-9
SUMMARY OF SITE INVESTIGATIONS RELATED TO DENSE NON-AQUEOUS PHASE LIQUIDS

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

Potential Source Area	Associated Soil Boring Location ID	Associated Groundwater Monitoring Well Location ID	Characterization Description
Closed Ponds: LOU Items 6-Spill of Still Bottom Residues (1981) and Still Bottom Residue Storage Tank Area 15-Ponds 1, 3, and 4 and associated 2" Waste Line 16-Ponds 2 and 5 (RCRA closed ponds) 17-Pond 6	Soil Vapor Borings P1-P27, Soil Borings SB-04 thru SB-08, CPA-1D thru CPA-08D, CPA-9S thru CPA-12S, DNAPL Boring RB-8	MW-1, MW-3, AA-MW-05, AA-MW-06	• 27 soil vapor borings were constructed and soil vapor samples collected and analyzed for VOCs. • 12 shallow and deep soil borings were constructed, soil samples were collected and analyzed to help define the depth and lateral extent of SRCs in the CPA. • One DNAPL reconnaissance boring and five UMCf monitor well borings were constructed and soil cores were screened for the presence of residual DNAPL. No evidence of residual DNAPL including visual identification, elevated FID and PID readings and reaction to Flute® ribbon detected in the boring in the CPA. • Two alluvial aquifer monitor wells constructed with screens across the water table and DNAPL traps to allow for collection of evidence of NAPL. The potential presence of NAPLs was also assessed using a product/water interface probe during the Phase I/II Site-Wide Groundwater Sampling Event. No evidence of NAPLs was detected in groundwater monitoring wells in the CPA using this method[(1)].

TABLE 4-9
SUMMARY OF SITE INVESTIGATIONS RELATED TO DENSE NON-AQUEOUS PHASE LIQUIDS

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

Potential Source Area	Associated Soil Boring Location ID	Associated Groundwater Monitoring Well Location ID	Characterization Description
Former Tank Farm: LOU Items; 18-Still Bottom Residue Drum Storage Area 19-Tank Farm	Soil Borings SB-1 thru SB-3, FTF-1 thru FTF-6, FTF-7D thru FTF-13D, FTF-14S thru FTF-18S, FTF-21D, DNAPL Boring RB-05 thru RB-07	MW-2, MC-MW-09, CP-1, OW-1, PW-1,	• 15 shallow and deep soil borings were constructed, soil samples were collected and analyzed to help define the depth and lateral extent of SRCs in the Former Tank Farm Area. • Three DNAPL reconnaissance borings in the FTF area and one UMCf monitor well boring down gradient of the FTF were constructed and soil cores were screened for the presence of residual DNAPL. Evidence of residual DNAPL including visual identification, elevated FID and PID readings and reaction to Flute® ribbon was sporadically detected in the borings RB-06 and MC-MW-09 in and down gradient of the FTF area. • Two alluvial aquifer monitor wells constructed with screens across the water table and DNAPL traps to allow for collection of evidence of NAPL.. The potential presence of NAPLs was also assessed using a product/water interface probe during the Phase I/II Site-Wide Groundwater Sampling Event. No evidence of NAPLs was detected in groundwater monitoring wells in the FTF area using this method(1). Short term aquifer testing in the UMCf was conducted at monitor well CP-1 in the FTF area.
Former Benzene Storage Tank: LOU Items; 3-Railcar Loading Area near Benzene Storage Tank 21-Benzene Storage Tank, Parcel C	Soil Boring FBT-3D		• Soil boring FBT-3D is located in the approximate center of the former Benzene Underground Storage Tank and was continuously cored and sampled at 10 foot intervals to 50 feet bgs. Benzene was detected at concentrations ranging from 0.0048 to 0.021 mg/kg.

Notes:
NAPLs = Non-aqueous Phase Liquids
DNAPL = Dense Non-aqueou Phase Liquids
bgs = below ground surface
(1) Additional ongoing assessment for the potential presence of NAPL at the Site includes gauging the groundwater monitoring wells using a product/water interface probe during routine groundwater monitoring events.

TABLE 4-10
WELLS CONSTRUCTED TO DETECT NON-AQUEOUS PHASE LIQUID

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

Well Number	Screened to detect LNAPL	Equipped with DNAPL Trap below Screen	Hydrostratigraphic Unit
B-1	?	No	Alluvial Aquifer
B-4	?	No	Alluvial Aquifer
B-6	√	No	Alluvial Aquifer
B-7	√	No	Alluvial Aquifer
B-8	√	No	Alluvial Aquifer
B-16	√	No	Alluvial Aquifer
EC-2	√	No	Alluvial Aquifer
EC–3	√	No	Alluvial Aquifer
EC-4	√	No	Alluvial Aquifer
EC-5	√	No	Alluvial Aquifer
H-11	?	No	Alluvial Aquifer
H-13	?	No	Alluvial Aquifer
H-15	?	No	Alluvial Aquifer
H-38	?	No	Alluvial Aquifer
H-55	?	No	Alluvial Aquifer
MW-1	?	No	Alluvial Aquifer
MW-2	?	No	Alluvial Aquifer
MW-3	?	No	Alluvial Aquifer
MW-4	?	No	Alluvial Aquifer
TR-6	No	No	Alluvial Aquifer
AA-MW-5	√	√	Alluvial Aquifer
AA-MW-6	√	√	Alluvial Aquifer
AA-MW-7	√	√	Alluvial Aquifer
AA-MW-14	√	√	Alluvial Aquifer
MC-MW-9	No	√	UMCf
MC-MW-10	No	√	UMCf
MC-MW-11	No	√	UMCf
MC-MW-12	No	√	UMCf
MC-MW-15	No	√	UMCf
MC-MW-17	No	√	UMCf
MC-MW-18	No	√	UMCf

TABLE 5-1
TOTAL ORGANIC CARBON

CONCEPTUAL SITE MODEL

FORMER MONTROSE AND STAUFFER FACILITIES

FIELD SAMPLE ID	LOCATION ID	SAMPLE DATE	SAMPLE MATRIX	SAMPLE PURPOSE	LAB SAMPLE ID	TOC RESULT	UNITS	FRACTIONAL ORGANIC CARBON PERCENT FOR DETECTED VALUES
SB-EC1-0.5	SB-EC01	7/26/2006	Soil	REG	IPG2252-01	1230	mg/Kg	0.123
SB-EC1-24.0	SB-EC01	7/27/2006	Soil	REG	IPG2410-01	<1000UJ	mg/Kg	
SB-EC1-9.5	SB-EC01	7/26/2006	Soil	REG	IPG2252-02	<1000	mg/Kg	
SB-EC10-0.0	EC-10	8/8/2006	Soil	REG	IPH0844-02	770	mg/Kg	0.077
SB-EC10-25.5	EC-10	8/8/2006	Soil	REG	IPH0844-04	<1000	mg/Kg	
SB-EC10-40.0	EC-10	8/8/2006	Soil	REG	IPH0844-05	<1000	mg/Kg	
SB-EC10-7.0	EC-10	8/8/2006	Soil	REG	IPH0844-03	6920	mg/Kg	0.692
SB-EC11-0.8	SB-EC11	8/2/2006	Soil	REG	IPH0194-01	<1000	mg/Kg	
SB-EC11-25.5	SB-EC11	8/2/2006	Soil	REG	IPH0194-03	<1000	mg/Kg	
SB-EC11-41.0	SB-EC11	8/2/2006	Soil	REG	IPH0194-04	5440	mg/Kg	0.544
SB-EC11-7.0	SB-EC11	8/2/2006	Soil	REG	IPH0194-02	<1000	mg/Kg	
SB-EC12-25.0	SB-EC12	8/2/2006	Soil	REG	IPH0194-07	10100	mg/Kg	1.01
SB-EC12-4.5	SB-EC12	8/2/2006	Soil	REG	IPH0194-05	6240	mg/Kg	0.624
SB-EC12-41.0	SB-EC12	8/2/2006	Soil	REG	IPH0194-08	31400	mg/Kg	3.14
SB-EC12-7.0	SB-EC12	8/2/2006	Soil	REG	IPH0194-06	2950	mg/Kg	0.295
SB-EC13-0.8	SB-EC13	8/3/2006	Soil	REG	IPH0403-01	1940	mg/Kg	0.194
SB-EC13-27.0	SB-EC13	8/3/2006	Soil	REG	IPH0403-03	1090	mg/Kg	0.109
SB-EC13-40.0	SB-EC13	8/3/2006	Soil	REG	IPH0403-04	590	mg/Kg	0.059
SB-EC13-7.0	SB-EC13	8/3/2006	Soil	REG	IPH0403-02	1040	mg/Kg	0.104
SB-EC14-1.0	SB-EC14	8/7/2006	Soil	REG	IPH0714-01	26900	mg/Kg	2.69
SB-EC14-23.5	SB-EC14	8/7/2006	Soil	REG	IPH0714-03	7500	mg/Kg	0.75
SB-EC14-40.0	SB-EC14	8/8/2006	Soil	REG	IPH0844-01	<1000	mg/Kg	
SB-EC14-7.0	SB-EC14	8/7/2006	Soil	REG	IPH0714-02	7760	mg/Kg	0.776
SB-EC2-39.0	SB-EC02	7/28/2006	Soil	REG	IPG2558-04	<1000	mg/Kg	

TABLE 5-1
TOTAL ORGANIC CARBON

CONCEPTUAL SITE MODEL

FORMER MONTROSE AND STAUFFER FACILITIES

FIELD SAMPLE ID	LOCATION ID	SAMPLE DATE	SAMPLE MATRIX	SAMPLE PURPOSE	LAB SAMPLE ID	TOC RESULT	UNITS	FRACTIONAL ORGANIC CARBON PERCENT FOR DETECTED VALUES
SB-EC3-0.5	SB-EC03	7/28/2006	Soil	REG	IPG2558-01	7180	mg/Kg	0.718
SB-EC3-25.0	SB-EC03	7/28/2006	Soil	REG	IPG2558-03	16900	mg/Kg	1.69
SB-EC3-34.0	SB-EC03	7/31/2006	Soil	REG	IPG2720-01	<1000	mg/Kg	
SB-EC4-0.8	SB-EC04	7/31/2006	Soil	REG	IPG2720-02	1150	mg/Kg	0.115
SB-EC4-25.0	SB-EC04	7/31/2006	Soil	REG	IPG2720-04	<1000	mg/Kg	
SB-EC4-35.5	SB-EC04	7/31/2006	Soil	REG	IPG2720-05	<1000	mg/Kg	
SB-EC4-7.0	SB-EC04	7/31/2006	Soil	REG	IPG2720-03	<1000	mg/Kg	
SB-EC5-1.5	SB-EC05	8/1/2006	Soil	REG	IPH0122-05	1690	mg/Kg	0.169
SB-EC5-25.0	SB-EC05	8/1/2006	Soil	REG	IPH0122-07	<1000	mg/Kg	
SB-EC5-49.0	SB-EC05	8/1/2006	Soil	REG	IPH0122-08	<1000	mg/Kg	
SB-EC5-7.0	SB-EC05	8/1/2006	Soil	REG	IPH0122-06	790	mg/Kg	0.079
SB-EC6-0.0	EC-06	8/1/2006	Soil	REG	IPH0122-01	700	mg/Kg	0.07
SB-EC6-25.5	EC-06	8/1/2006	Soil	REG	IPH0122-03	590	mg/Kg	0.059
SB-EC6-47.0	EC-06	8/1/2006	Soil	REG	IPH0122-04	530	mg/Kg	0.053
SB-EC6-7.0	EC-06	8/1/2006	Soil	REG	IPH0122-02	1140	mg/Kg	0.114
SB-EC7-0.0	EC-07	8/3/2006	Soil	REG	IPH0403-05	44900	mg/Kg	4.49
SB-EC7-25.5	EC-07	8/3/2006	Soil	REG	IPH0403-07	<1000	mg/Kg	
SB-EC7-45.5	EC-07	8/3/2006	Soil	REG	IPH0403-08	<1000	mg/Kg	
SB-EC7-7.0	EC-07	8/3/2006	Soil	REG	IPH0403-06	<1000	mg/Kg	
SB-EC8-0.0	EC-08	8/9/2006	Soil	REG	IPH0976-01	<1000	mg/Kg	
SB-EC8-25.0	EC-08	8/9/2006	Soil	REG	IPH0976-03	<1000	mg/Kg	
SB-EC8-39.5	EC-08	8/9/2006	Soil	REG	IPH0976-04	<1000	mg/Kg	
SB-EC8-7.0	EC-08	8/9/2006	Soil	REG	IPH0976-02	570	mg/Kg	0.057
SB-EC9-0.0	EC-09	8/10/2006	Soil	REG	IPH1149-06	1010	mg/Kg	0.101

TABLE 5-1
TOTAL ORGANIC CARBON

CONCEPTUAL SITE MODEL

FORMER MONTROSE AND STAUFFER FACILITIES

FIELD SAMPLE ID	LOCATION ID	SAMPLE DATE	SAMPLE MATRIX	SAMPLE PURPOSE	LAB SAMPLE ID	TOC RESULT	UNITS	FRACTIONAL ORGANIC CARBON PERCENT FOR DETECTED VALUES
SB-EC9-25.0	EC-09	8/10/2006	Soil	REG	IPH1149-08	<1000	mg/Kg	
SB-EC9-41.0	EC-09	8/10/2006	Soil	REG	IPH1149-09	<1000	mg/Kg	
SB-EC9-7.5	EC-09	8/10/2006	Soil	REG	IPH1149-07	550	mg/Kg	0.055
SBEC1-39.0	SB-EC01	7/27/2006	Soil	REG	IPG2410-02	570	mg/Kg	0.057
SBEC2-0.5	SB-EC02	7/27/2006	Soil	REG	IPG2410-03	3190	mg/Kg	0.319
SBEC2-25.0	SB-EC02	7/27/2006	Soil	REG	IPG2410-05	<1000	mg/Kg	
SBEC2-7.0	SB-EC02	7/27/2006	Soil	REG	IPG2410-04	<1000	mg/Kg	
SBEC3-7.0	SB-EC03	7/28/2006	Soil	REG	IPG2558-02	<1000	mg/Kg	

TABLE 6-1

GROUNDWATER TREATMENT SYSTEM PERFORMANCE SUMMARY

CONCEPTUAL SITE MODEL
FORMER MONTROSE AND STAUFFER FACILITIES

QUARTER	TREATED VOLUME (X 1,000 gallons)	QUARTERLY AVERAGE FLOW RATE (gpm)	TOTAL VOC MASS REMOVED[1] (pounds)
2nd Quarter 1999	19,688	149	521
4th Quarter 1999	18,149	137	417
1st Quarter 2000	17,352	131	344
2nd Quarter 2000	19,863	150	350
3rd Quarter 2000	17,117	129	315
4th Quarter 2000	16,662	126	346
1st Quarter 2001	13,660	103	323
2nd Quarter 2001	12,177	92	302
3rd Quarter 2001	12,252	92	404
4th Quarter 2001	10,640	80	232
1st Quarter 2002	10,392	78	273
2nd Quarter 2002	11,162	84	475
3rd Quarter 2002	10,185	77	268
4th Quarter 2002	9,346	71	224
1st Quarter 2003	9,766	75	322
2nd Quarter 2003	9,963	76	565
3rd Quarter 2003	11,888	90	358
4th Quarter 2003	14,613	110	541
1st Quarter 2004	11,888	90	358
2nd Quarter 2004	17,316	131	935
Initiation of Renovation and Upgrade Program			
3rd Quarter 2004	33,174	250	1,302
4th Quarter 2004	34,363	259	1,226
1st Quarter 2005	31,138	235	1,161
2nd Quarter 2005	21,574	163	1,338
3rd Quarter 2005	24,168	182	1,473
4th Quarter 2005	15,656	118	2,171
1st Quarter 2006	26,130	197	1,692
2nd Quarter 2006	23,798	180	2,293
3rd Quarter 2006	25,979	196	2,833
4th Quarter 2006	27,463	207	1,774
1st Quarter 2007	25,571	193	1,756

Total volume of water processed since 1999:	563,093,000 gallons
Total mass of VOCs removed since 2004 renovation:	19,018 pounds
Total mass of VOCs removed since 1999:	26,892 pounds

Notes:

gpm = Gallons per minute

VOCs = Volatile organic compounds used to monitor GWTS performance include chloroform, benzene, dimethyl disulfide, chlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,2-dichlorobenzene, 1,2,3-trichlorobenzene, and p-chlorothioanisole.

GWTS - Groundwater treatment system

[1] Total mass removal includes VOCs removed by selected wellhead treatment, air stripping, and activated carbon polishing