Previous

N00236.002317
ALAMEDA POINT
SSIC NO. 5090.3

SECTION 5.0
TABLES

FINAL
REMEDIAL INVESTIGATION REPORT
IR SITE 2, WEST BEACH LANDFILL AND WETLANDS

DATED 23 JUNE 2006

Table 5-1. PCB Aroclors Measured in IR Site 2 Media

Analyte	CAS
Aroclor 1016	12674112
Aroclor 1221	11104282
Aroclor 1232	11141165
Aroclor 1242	53469219
Aroclor 1248	12672296
Aroclor 1254	11097691
Aroclor 1260	11096825

Table 5-2. PCB Congeners Measured in IR Site 2 Media

Congener	Analyte Name	CAS
Cl2(08)*	2,4'-Dichlorobiphenyl	34883-43-7
Cl3(18)*	2,2',5-Trichlorobiphenyl	37680-65-2
Cl3(28)*	2,4,4'-Trichlorobiphenyl	7012-37-5
Cl4(44)*	2,2',3,5'-Tetrachlorobiphenyl	41464-39-5
Cl4(52)*	2,2',5,5'-Tetrachlorobiphenyl	35693-99-3
Cl4(66)*	2,3',4,4'-Tetrachlorobiphenyl	32598-10-0
Cl4(77)	3,3',4,4'-Tetrachlorbiphenyl	32598-13-3
Cl5(101)*	2,2',4,5,5'-Pentachlorbiphenyl	37680-73-2
Cl5(105)*	2,3,3',4,4'-Pentachlorobiphenyl	32598-14-4
Cl5(110)	2,3,3',4',6-Pentachlorobiphenyl	38380-03-9
Cl5(118)*	2,3',4,4',5-Pentachlorobiphenyl	31508-00-6
Cl5(126)	3,3',4,4',5-Pentachlorobiphenyl	57465-28-8
Cl6(128)*	2,2',3,3',4,4'-Hexachlorobiphenyl	38380-07-3
Cl6(129)	2,2',3,3',4,5-Hexachlorobiphenyl	55215-18-4
Cl6(138)*	2,2',3,4,4',5'-Hexachlorobiphenyl	35065-28-2
Cl6(153)*	2,2',4,4',5,5'-Hexachlorobiphenyl	35065-27-1
Cl7(170)*	2,2',3,3',4,4',5-Heptachlorobiphenyl	35065-30-6
Cl7(180)*	2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065-29-3
Cl7(187)*	2,2',3,4',5,5',6-Heptachlorobiphenyl	52663-68-0
Cl8(195)*	2,2',3,3',4,4',5,6-Octachlorobiphenyl	52663-78-2
Cl9(206)*	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	40186-72-9
Cl10(209)*	Decachlorobiphenyl	2051-24-3

* Indicates congener was used to calculate a Total PCB concentration based on NOAA NS&T method for evaluation in the risk assessments.

Table 5-3. Toxicity Equivalency Factors for PCDD/PCDF Congeners

Analyte	CAS	TEF (mammals)	TEF (birds)
2,3,7,8-TCDD	1746-01-6	1	1
1,2,3,7,8-PeCDD	40321-76-4	1	1
1,2,3,4,7,8-HxCDD	39227-28-6	0.1	0.05
1,2,3,6,7,8-HxCDD	57653-85-7	0.1	0.01
1,2,3,7,8,9-HxCDD	19408-74-3	0.1	0.1
1,2,3,4,6,7,8-HpCDD	35822-46-9	0.01	0
OCDD	3268-87-9	0.0001	0.0001
2,3,7,8-TCDF	51207-31-9	0.1	1
1,2,3,7,8-PeCDF	57117-41-6	0.05	0.1
2,3,4,7,8-PeCDF	57117-31-4	0.5	1
1,2,3,4,7,8-HxCDF	70648-26-9	0.1	0.1
1,2,3,6,7,8-HxCDF	57117-44-9	0.1	0.1
1,2,3,7,8,9-HxCDF	72918-21-9	0.1	0.1
2,3,4,6,7,8-HxCDF	60851-34-5	0.1	0.1
1,2,3,4,6,7,8-HpCDF	67562-39-4	0.01	0.01
1,2,3,4,7,8,9-HpCDF	55673-89-7	0.01	0.01
OCDF	39001-02-0	0.0001	0.0001

Table 5-4. Summary Statistics for Landfill Surface Soil (0-1 ft bgs)

Analyte	Unit	IR Site 2 Landfill								CCSP Upland								Alameda PCDD/PCDF								U.S. EPA Region 9 Residential PRG[a]	Alameda Background[b]
		Number of Samples			Nondetects		Detects			Number of Samples			Nondetects		Detects			Number of Samples			Nondetects		Detects				
		Total	Detects	Frequency of Detects (%)	Min MDL	Max MDL	Minimum Detect	Mean Detect	Maximum Detect	Total	Detects	Frequency of Detects (%)	Min MDL	Max MDL	Minimum Detect	Mean Detect	Maximum Detect	Total	Detects	Frequency of Detects (%)	Min MDL	Max MDL	Minimum Detect	Mean Detect	Maximum Detect		
METALS																											
Aluminum	mg/kg dry wt	52	52	1.00	8	12	2780	10624	26700	3	3	1.00	9	17	24400	25167	26000									76142	6869
Antimony	mg/kg dry wt	52	50	0.96	0.02	0.04	0.10	1.30	7.86	3	3	1.00	0.03	0.03	0.42	0.51	0.65									31.29	3.1
Arsenic	mg/kg dry wt	52	52	1.00	0.05	0.06	1.32	4.74	13.50	3	3	1.00	0.19	0.44	6.74	7.87	8.49									0.389623911	9.4
Barium	mg/kg dry wt	52	52	1.00	0.2	0.2	22.5	70.4	474.0	3	3	1.00	0.1	0.2	177.0	643.3	1530.0									5374.9	43.5
Beryllium	mg/kg dry wt	52	50	0.96	0.03	0.12	0.10	0.32	0.89	3	3	1.00	0.04	0.05	0.72	1.14	1.43									154.37	0.63
Cadmium	mg/kg dry wt	52	30	0.58	0.1	1.0	0.9	7.0	25.9	3	3	1.00	0.1	0.1	1.9	2.6	3.5									37.0	0.8
Chromium	mg/kg dry wt	52	52	1.00	0.5	0.7	23.9	60.2	139.5	3	3	1.00	0.1	0.2	25.0	88.4	199.0									210.7	34.4
Cobalt	mg/kg dry wt	52	52	1.00	0.3	2.4	3.6	8.9	17.1	3	3	1.00	0.3	0.3	30.8	36.4	40.2									902.9	4.9
Copper	mg/kg dry wt	52	52	1.00	0.9	2.4	5.7	55.3	388.0	3	3	1.00	2.2	4.3	35.3	149.1	263.0									3128.6	19.3
Hexavalent Chromium	mg/kg dry wt	20	1	0.05	0.3	0.4	1.2	1.2	1.2																	30.1	
Iron	mg/kg dry wt	52	52	1.00	0.6	4	6580	20768	45200	3	3	1.00	2	4	38600	60833	80200									23463	11410
Lead	mg/kg dry wt	52	52	1.00	0.02	6.1	5.8	69.1	260.0	3	3	1.00	0.05	0.1	51.5	89.8	139.0									400.0	51.7
Magnesium	mg/kg dry wt	52	52	1.00	0.5	2	1850	5230	13200	3	3	1.00	2	4	4710	10537	20400										3178
Manganese	mg/kg dry wt	52	52	1.00	0.05	0	93	288	523	3	3	1.00	0.2	0.4	756	2717	6480									1762	157.6
Mercury	µg/kg dry wt	52	52	1.00	0.5	3	23	403	2280	3	3	1.00	0.6	0.6	47	75	101										120
Molybdenum	mg/kg dry wt	52	7	0.13	2.0	2.4	2.7	4.5	8.9	3	2	0.67	0.6	0.7	0.8	1.2	1.5									391.1	
Nickel	mg/kg dry wt	52	52	1.00	0.04	3.5	23.4	47.1	117.0	3	3	1.00	0.2	0.4	33.1	106.8	227.0									1564.3	30.6
Selenium	mg/kg dry wt	52	42	0.81	0.1	0.1	0.1	0.3	0.8	3	1	0.33	0.5	1.1	1.8	1.8	1.8									391.1	
Silver	mg/kg dry wt	52	52	1.00	0.003	0.004	0.049	0.759	2.580	3	3	1.00	0.002	0.002	0.066	0.112	0.186									391.071	4
Thallium	mg/kg dry wt	52	50	0.96	0.002	0.002	0.030	0.083	0.250	3	1	0.33	0.009	0.022	0.111	0.111	0.111									5.162	
Tri-*n*-butyltin Cation	µg/kg dry wt	8	7	0.88	0.17	0.23	0.19	0.76	3.30																		
Vanadium	mg/kg dry wt	52	52	1.00	0.6	1.1	14.1	36.8	81.6	3	3	1.00	2.2	4.3	66.7	124.6	220.0									78.2	27.9
Zinc	mg/kg dry wt	52	52	1.00	0.3	0.6	24	146	662	3	3	1.00	0.4	0.9	78	107	157									23463	56.8
SVOCs/PAHs																											
1,1'-Byphenyl	µg/kg dry wt	50	5	0.10	4.90	360.00	52.00	483.80	1900.00	3	0	0.00	6.30	29.00													
1,2,4,5-Tetrachlorobenzene	µg/kg dry wt	50	1	0.02	5.00	370.00	36.00	36.00	36.00	3	0	0.00	6.40	30.00												184681.89	
2,4,5-Trichlorophenol	µg/kg dry wt	50	0	0.00	3.10	230.00				3	0	0.00	3.90	18.00												6110309.70	
2,4,6-Trichlorophenol	µg/kg dry wt	50	0	0.00	1.90	140.00				3	0	0.00	2.40	11.00												6110.31	
2,4-Dichlorophenol	µg/kg dry wt	50	0	0.00	1.90	140.00				3	0	0.00	2.40	11.00												183309.29	
2,4-Dimethylphenol	µg/kg dry wt	50	0	0.00	5.60	420.00				3	0	0.00	7.20	33.00												1222061.94	
2,4-Dinitrophenol	µg/kg dry wt	50	0	0.00	37.00	2700.00				3	0	0.00	47.00	220.00												122206.19	
2-Chloronaphthalene	µg/kg dry wt	50	1	0.02	3.70	270.00	35.00	35.00	35.00	3	0	0.00	4.70	22.00												4936640.54	
2-Chlorophenol	µg/kg dry wt	50	0	0.00	1.80	130.00				3	0	0.00	2.20	11.00												63398.46	
2-Methyl-4,6-dinitrophenol	µg/kg dry wt	50	0	0.00	1.80	130.00				3	0	0.00	2.20	11.00													
2-Methylnaphthalene	µg/kg dry wt	50	39	0.78	1.30	90.00	1.80	227.60	6900.00	3	1	0.33	1.60	7.20	8.60	8.60	8.60										
2-Methylphenol	µg/kg dry wt	50	2	0.04	3.50	260.00	10.00	12.00	14.00	3	0	0.00	4.40	21.00												3055154.85	
2-Nitroaniline	µg/kg dry wt	50	1	0.02	2.80	210.00	14.00	14.00	14.00	3	0	0.00	3.50	16.00												182772.21	
2-Nitrophenol	µg/kg dry wt	50	0	0.00	2.70	200.00				3	0	0.00	3.40	16.00													
3,3'-Dichlorobenzidine	µg/kg dry wt	50	1	0.02	3.80	280.00	4.20	4.20	4.20	3	0	0.00	4.80	22.00												1080.85	
3-Nitroaniline	µg/kg dry wt	50	0	0.00	2.70	200.00				3	0	0.00	3.40	16.00												18330.93	
4-Bromophenyl Phenyl Ether	µg/kg dry wt	50	0	0.00	1.50	110.00				3	0	0.00	1.90	8.30													
4-Chloro-3-methylphenol	µg/kg dry wt	50	0	0.00	2.20	160.00				3	0	0.00	2.80	13.00													
4-Chloroaniline	µg/kg dry wt	50	2	0.04	2.20	160.00	11.00	85.50	160.00	3	0	0.00	2.80	13.00												244412.39	
4-Chlorophenyl Phenyl Ether	µg/kg dry wt	50	0	0.00	2.10	150.00				3	0	0.00	2.60	12.00													
4-Methylphenol	µg/kg dry wt	50	3	0.06	3.00	220.00	4.30	8.23	15.00	3	0	0.00	3.80	18.00												305515.49	
4-Nitroaniline	µg/kg dry wt	50	0	0.00	3.50	260.00				3	0	0.00	4.40	21.00												23160.98	
4-Nitrophenol	µg/kg dry wt	50	0	0.00	31.00	2300.00				3	0	0.00	39.00	180.00													

Table 5-4. Summary Statistics for Landfill Surface Soil (0-1 ft bgs) (page 2 of 5)

Analyte	Unit	IR Site 2 Landfill								CCSP Upland								Alameda PCDD/PCDF								U.S. EPA Region 9 Residential PRG[a]	Alameda Background[b]
		Number of Samples			Nondetects		Detects			Number of Samples			Nondetects		Detects			Number of Samples			Nondetects		Detects				
		Total	Detects	Frequency of Detects (%)	Min MDL	Max MDL	Minimum Detect	Mean Detect	Maximum Detect	Total	Detects	Frequency of Detects (%)	Min MDL	Max MDL	Minimum Detect	Mean Detect	Maximum Detect	Total	Detects	Frequency of Detects (%)	Min MDL	Max MDL	Minimum Detect	Mean Detect	Maximum Detect		
SVOCs/PAHs (Continued)																											
Acenaphthene	µg/kg dry wt	50	32	0.64	1.10	220.00	1.70	738.88	20000.00	3	1	0.33	1.30	6.00	190.00	190.00	190.00									3681705.75	
Acenaphthylene	µg/kg dry wt	50	40	0.80	1.50	110.00	2.30	31.13	210.00	3	0	0.00	1.90	8.30													
Acetophenone	µg/kg dry wt	50	7	0.14	13.00	900.00	16.00	54.57	220.00	3	3	1.00	16.00	72.00	41.00	123.67	220.00										
Anthracene	µg/kg dry wt	50	45	0.90	1.50	110.00	2.90	316.39	9100.00	3	1	0.33	1.90	8.30	54.00	54.00	54.00									21896120.62	
Atrazine	µg/kg dry wt	50	0	0.00	2.30	170.00				3	0	0.00	2.90	14.00												2190.90	
Benzaldehyde	µg/kg dry wt	50	6	0.12	9.00	660.00	11.00	126.83	490.00	3	0	0.00	12.00	53.00												6110309.70	
Benzo(a)anthracene	µg/kg dry wt	50	47	0.94	1.50	110.00	4.50	318.89	3600.00	3	3	1.00	1.90	8.30	1.90	635.07	1900.00									621.46	
Benzo(a)pyrene	µg/kg dry wt	50	48	0.96	1.70	120.00	6.90	268.26	3800.00	3	2	0.67	2.10	38.00	2.50	2151.25	4300.00									62.15	537400.00
Benzo(b)fluoranthene	µg/kg dry wt	50	49	0.98	2.60	190.00	6.90	368.62	5100.00	3	2	0.67	3.30	60.00	5.80	2052.90	4100.00									621.46	
Benzo(g,h,i)perylene	µg/kg dry wt	50	50	1.00	2.40	180.00	6.10	240.74	2800.00	3	2	0.67	3.00	55.00	3.30	1701.65	3400.00										538900.00
Benzo(k)fluoranthene	µg/kg dry wt	50	43	0.86	2.60	190.00	7.20	146.91	1600.00	3	1	0.33	3.30	15.00	1600.00	1600.00	1600.00									6214.57	
Bis(2-chloroethoxy)methane	µg/kg dry wt	50	0	0.00	1.40	98.00				3	0	0.00	1.70	7.80													
Bis(2-chloroethyl) Ether	µg/kg dry wt	50	0	0.00	2.50	180.00				3	0	0.00	3.20	15.00												217.50	
Bis(2-ethylhexyl) Phthalate	µg/kg dry wt	50	36	0.72	1.80	130.00	72.00	872.06	7400.00	3	0	0.00	2.20	11.00												34741.47	
Bis(chloroisopropyl) Ether	µg/kg dry wt	50	0	0.00	1.30	90.00				3	0	0.00	1.60	7.20												2884.22	
Butyl Benzyl Phthalate	µg/kg dry wt	50	41	0.82	1.60	170.00	4.40	381.99	13000.00	3	1	0.33	2.00	8.90	3.60	3.60	3.60									12220619.40	
Caprolactam	µg/kg dry wt	50	0	0.00	13.00	900.00				3	0	0.00	16.00	72.00												30551548.50	
Carbazole	µg/kg dry wt	50	26	0.52	1.40	98.00	2.10	194.37	4000.00	3	1	0.33	1.70	7.80	39.00	39.00	39.00									24319.03	
Chrysene	µg/kg dry wt	50	50	1.00	1.50	110.00	4.10	393.51	3900.00	3	3	1.00	1.90	34.00	4.50	869.73	2600.00									62145.67	535600.00
Dibenz(a,h)anthracene	µg/kg dry wt	50	34	0.68	2.30	170.00	4.00	54.21	670.00	3	1	0.33	2.90	14.00	830.00	830.00	830.00									62.15	
Dibenzofuran	µg/kg dry wt	50	20	0.40	1.40	98.00	1.40	556.29	9200.00	3	0	0.00	1.70	7.80												145263.14	
Diethyl Phthalate	µg/kg dry wt	50	2	0.04	3.60	270.00	39.00	50.00	61.00	3	0	0.00	4.60	21.00												48882477.61	
Dimethyl Phthalate	µg/kg dry wt	50	1	0.02	1.90	140.00	16.00	16.00	16.00	3	0	0.00	2.40	11.00												100000000.00	
Di-*n*-butyl Phthalate	µg/kg dry wt	50	24	0.48	2.70	200.00	3.80	32.07	150.00	3	0	0.00	3.40	16.00												6110309.70	
Di-*n*-octyl Phthalate	µg/kg dry wt	50	1	0.02	1.30	90.00	30.00	30.00	30.00	3	0	0.00	1.60	7.20												2444123.88	
Fluoranthene	µg/kg dry wt	50	47	0.94	2.30	480.00	13.00	951.43	22000.00	3	2	0.67	2.90	14.00	4.20	552.10	1100.00									2293610.18	545400.00
Fluorene	µg/kg dry wt	50	22	0.44	1.80	370.00	2.10	861.05	16000.00	3	1	0.33	2.20	11.00	16.00	16.00	16.00									2747106.60	
Hexachlorobenzene	µg/kg dry wt	50	1	0.02	2.20	160.00	55.00	55.00	55.00	3	0	0.00	2.80	13.00												303.99	
Hexachlorobutadiene	µg/kg dry wt	50	0	0.00	1.50	110.00				3	0	0.00	1.90	8.30												6235.65	
Hexachlorocyclopentadiene	µg/kg dry wt	50	0	0.00	16.00	1200.00				3	0	0.00	20.00	89.00												365487.50	
Hexachloroethane	µg/kg dry wt	50	0	0.00	2.30	170.00				3	0	0.00	2.90	14.00												34741.47	
Indeno(1,2,3-cd)pyrene	µg/kg dry wt	50	49	0.98	2.00	150.00	4.80	218.61	3000.00	3	2	0.67	2.50	46.00	3.00	1651.50	3300.00									621.46	538900.00
Isophorone	µg/kg dry wt	50	0	0.00	1.70	120.00				3	0	0.00	2.10	9.50												511979.49	
Naphthalene	µg/kg dry wt	50	40	0.80	1.40	290.00	3.00	609.14	22000.00	3	0	0.00	1.70	7.80												55916.06	
N-Nitrosodi-*n*-propylamine	µg/kg dry wt	50	0	0.00	3.30	240.00				3	0	0.00	4.20	19.00												69.48	
N-Nitrosodiphenylamine	µg/kg dry wt	50	1	0.02	2.30	170.00	2.80	2.80	2.80	3	0	0.00	2.90	14.00												99261.33	
Pentachlorophenol	µg/kg dry wt	50	2	0.04	8.70	640.00	66.00	71.00	76.00	3	0	0.00	11.00	51.00												2978.99	
Phenanthrene	µg/kg dry wt	50	49	0.98	1.40	290.00	4.70	1329.67	50000.00	3	2	0.67	1.70	7.80	1.90	90.95	180.00										538800.00
Phenol	µg/kg dry wt	50	8	0.16	2.00	150.00	3.10	20.78	59.00	3	3	1.00	2.50	12.00	13.00	30.00	51.00									18330929.10	
Pyrene	µg/kg dry wt	50	50	1.00	1.40	290.00	14.00	834.82	18000.00	3	3	1.00	1.70	7.80	3.20	602.43	1800.00									2315951.12	549700.00
PCBs																											
Aroclor 1016	µg/kg dry wt	44	2	0.05	2.66	264.60	142.37	200.64	258.90	3	0	0.00	6.63	7.11												3933.08	
Aroclor 1016 MOD	µg/kg dry wt	44	0	0.00	2.66	264.60				3	0	0.00	6.63	7.11												3933.08	
Aroclor 1221	µg/kg dry wt	44	1	0.02	2.66	264.60	8005.06	8005.06	8005.06	3	0	0.00	6.63	7.11													
Aroclor 1221 MOD	µg/kg dry wt	44	1	0.02	2.66	264.40	8005.06	8005.06	8005.06	3	0	0.00	6.63	7.11													
Aroclor 1232	µg/kg dry wt	44	7	0.16	2.66	264.60	168.13	498.21	1252.27	3	0	0.00	6.63	7.11													
Aroclor 1232 MOD	µg/kg dry wt	44	12	0.27	2.66	264.40	168.13	581.13	1682.26	3	0	0.00	6.63	7.11													
Aroclor 1242	µg/kg dry wt	44	3	0.07	2.66	264.60	76.68	853.73	1343.25	3	0	0.00	6.63	7.11													
Aroclor 1242 MOD	µg/kg dry wt	44	7	0.16	2.66	264.40	70.14	1339.16	5303.37	3	0	0.00	6.63	7.11													
Aroclor 1248	µg/kg dry wt	44	8	0.18	2.66	264.60	21.53	347.29	1272.32	3	0	0.00	6.63	7.11													
Aroclor 1248 MOD	µg/kg dry wt	44	8	0.18	2.66	264.60	93.64	306.39	599.63	3	0	0.00	6.63	7.11													
Aroclor 1254	µg/kg dry wt	44	11	0.25	2.66	264.60	11.82	807.84	4537.02	3	0	0.00	6.63	7.11												221.86	
Aroclor 1254 MOD	µg/kg dry wt	44	29	0.66	2.66	264.40	9.55	456.63	4537.02	3	0	0.00	6.63	7.11												221.86	
Aroclor 1260	µg/kg dry wt	44	15	0.34	2.66	264.60	43.57	253.39	976.49	3	0	0.00	6.63	7.11													

Table 5-4. Summary Statistics for Landfill Surface Soil (0-1 ft bgs) (page 3 of 5)

Analyte	Unit	IR Site 2 Landfill								CCSP Upland								Alameda PCDD/PCDF								U.S. EPA Region 9 Residential PRG[a]	Alameda Background[b]
		Number of Samples			Nondetects		Detects			Number of Samples			Nondetects		Detects			Number of Samples			Nondetects		Detects				
		Total	Detects	Frequency of Detects (%)	Min MDL	Max MDL	Minimum Detect	Mean Detect	Maximum Detect	Total	Detects	Frequency of Detects (%)	Min MDL	Max MDL	Minimum Detect	Mean Detect	Maximum Detect	Total	Detects	Frequency of Detects (%)	Min MDL	Max MDL	Minimum Detect	Mean Detect	Maximum Detect		
PCBs (Continued)																											
Aroclor 1260 MOD	µg/kg dry wt	44	6	0.14	2.66	264.40	48.42	199.24	744.66	3	0	0.00	6.63	7.11													
Total PCBs (NOAA)	µg/kg dry wt	44	44	1.00			11.90	465.93	2497.44	3	1	0.33	0.55	0.58	0.46	0.46	0.46									221.86	
Total PCBs (AROCLOR)	µg/kg dry wt	44	43	0.98	2.81	2.81	11.82	727.43	8005.06	3	0	0.00														221.86	
Total PCBs (AROCLOR_MOD)	µg/kg dry wt	44	43	0.98	2.81	2.81	13.68	1000.39	13308.43	3	0	0.00														221.86	
PESTICIDES																											
2,4-DDD	µg/kg dry wt	44	38	0.86	0.01	1.33	0.08	3.78	19.96	3	0	0.00	0.01	0.02													
2,4-DDE	µg/kg dry wt	44	6	0.14	0.02	2.24	0.18	0.54	1.19	3	0	0.00	0.03	0.03													
2,4-DDT	µg/kg dry wt	44	23	0.52	0.01	1.19	0.30	1.74	5.31	3	0	0.00	0.01	0.02													
4,4-DDD	µg/kg dry wt	44	43	0.98	0.03	3.03	0.33	9.36	49.72	3	2	0.67	0.03	0.04	0.09	0.20	0.31									2436.60	
4,4-DDE	µg/kg dry wt	44	41	0.93	0.01	1.33	0.04	2.46	14.62	3	3	1.00	0.01	0.02	0.17	0.83	2.10									1719.96	
4,4-DDT	µg/kg dry wt	44	41	0.93	0.01	0.91	0.11	5.94	44.36	3	3	1.00	0.01	0.01	0.05	1.74	5.10									1719.96	
Total DDDs	µg/kg dry wt	44	43	0.98					69.68	3	2	0.67					0.31										
Total DDEs	µg/kg dry wt	44	41	0.93					14.62	3	3	1.00					2.10										
Total DDTs	µg/kg dry wt	44	41	0.93					49.67	3	3	1.00					5.10										
Total DDx	µg/kg dry wt	44	44	1.00					81.91	3	3	1.00					7.51										
alpha-Chlordane	µg/kg dry wt	44	41	0.93	0.02	2.24	0.17	3.71	62.98	3	1	0.33	0.03	0.03	0.29	0.29	0.29										
a-BHC	µg/kg dry wt	44	1	0.02	0.06	5.86	0.21	0.21	0.21	3	0	0.00	0.07	0.08												90.22	
Aldrin	µg/kg dry wt	44	1	0.02	0.02	2.38	0.32	0.32	0.32	3	0	0.00	0.03	0.03												28.61	
beta-BHC	µg/kg dry wt	44	2	0.05	0.05	4.62	0.22	0.49	0.75	3	0	0.00	0.06	0.06												315.75	
cis-nonachlor	µg/kg dry wt	44	31	0.70	0.01	1.48	0.19	1.50	10.43	3	1	0.33	0.02	0.02	0.11	0.11	0.11										
delta-HCH	µg/kg dry wt	44	1	0.02	0.04	3.57	0.07	0.07	0.07	3	0	0.00	0.04	0.05													
Dieldrin	µg/kg dry wt	44	32	0.73	0.02	1.81	0.11	2.22	6.21	3	3	1.00	0.02	0.02	0.06	0.13	0.23									30.40	
Endosulfan I	µg/kg dry wt	44	1	0.02	0.03	3.29	0.11	0.11	0.11	3	0	0.00	0.04	0.04													
Endosulfan II	µg/kg dry wt	44	25	0.57	0.03	3.14	0.14	1.32	3.88	3	0	0.00	0.04	0.04													
Endosulfan sulfate	µg/kg dry wt	44	4	0.09	0.01	1.48	0.20	4.51	12.98	3	0	0.00	0.02	0.02													
Endrin	µg/kg dry wt	44	0	0.00	0.03	2.52				3	0	0.00	0.03	0.03												18330.93	
Endrin aldehyde	µg/kg dry wt	44	2	0.05	0.03	3.14	0.61	0.65	0.69	3	0	0.00	0.04	0.04													
Endrin ketone	µg/kg dry wt	44	0	0.00	0.02	2.10				3	0	0.00	0.03	0.03													
gamma-BHC (Lindane)	µg/kg dry wt	44	8	0.18	0.02	1.95	0.05	0.26	0.76	3	0	0.00	0.02	0.03												437.20	
gamma-Chlordane	µg/kg dry wt	44	34	0.77	0.01	1.34	0.10	3.91	65.61	3	0	0.00	0.02	0.02													
Heptachlor	µg/kg dry wt	44	1	0.02	0.02	1.95	0.19	0.19	0.19	3	0	0.00	0.02	0.03												108.08	
Heptachlor epoxide	µg/kg dry wt	44	3	0.07	0.02	2.10	0.13	0.35	0.49	3	0	0.00	0.03	0.03												53.45	
Methoxychlor	µg/kg dry wt	44	2	0.05	0.56	55.37	1.74	2.78	3.81	3	1	0.33	0.69	0.74	0.26	0.26	0.26									305515.49	
Toxaphene	µg/kg dry wt	44	0	0.00	2.66	264.76				3	0	0.00	6.63	7.12												442.16	
trans-Nonachlor	µg/kg dry wt	44	41	0.93	0.01	1.48	0.03	2.45	32.95	3	3	1.00	0.02	0.02	0.09	0.25	0.55										
VOCs																											
1,1,1-Trichloroethane (TCA)	µg/kg dry wt	40	0	0.00	0.60	0.93				3	0	0.00	1.80	3.00												1200000.00	
1,1,2,2-Tetrachloroethane	µg/kg dry wt	40	0	0.00	0.77	1.20				3	0	0.00	2.30	3.90												407.62	
1,1,2-trichloro-1,2,2-trifluoroethane	µg/kg dry wt	40	0	0.00	0.78	1.30				3	0	0.00	2.30	3.90													
1,1,2-Trichloroethane	µg/kg dry wt	40	0	0.00	0.73	1.20				3	0	0.00	2.10	3.70												728.63	
1,1-Dichloroethane	µg/kg dry wt	40	0	0.00	0.82	1.30				3	0	0.00	2.40	4.20												506396.83	
1,1-Dichloroethene	µg/kg dry wt	40	0	0.00	0.73	1.20				3	0	0.00	2.20	3.80												123530.68	
1,2,3-Trichlorobenzene	µg/kg dry wt	40	0	0.00	0.95	1.50				3	0	0.00	2.80	4.80													
1,2,4-Trichlorobenzene	µg/kg dry wt	40	0	0.00	0.81	1.30				3	0	0.00	2.40	4.10												62159.76	
1,2-Dibromo-3-chloropropane	µg/kg dry wt	40	0	0.00	0.89	1.40				3	0	0.00	2.60	4.50												460.00	
1,2-Dibromoethane (EDB)	µg/kg dry wt	40	0	0.00	0.83	1.30				3	0	0.00	2.40	4.20												32.00	
1,2-Dichlorobenzene	µg/kg dry wt	40	0	0.00	0.68	1.10				3	0	0.00	2.00	3.50												600000.00	
1,2-Dichloroethane (EDC)	µg/kg dry wt	40	0	0.00	0.70	1.10				3	0	0.00	2.10	3.60												277.73	
1,2-Dichloropropane	µg/kg dry wt	40	0	0.00	0.76	1.20				3	0	0.00	2.20	3.80												342.16	
1,3-Dichlorobenzene	µg/kg dry wt	40	0	0.00	0.75	1.20				3	0	0.00	2.20	3.80												531349.38	
1,4-Dichlorobenzene	µg/kg dry wt	40	0	0.00	0.86	1.40				3	0	0.00	2.50	4.40												3446.54	
2-Butanone (MEK)	µg/kg dry wt	40	1	0.03	8.80	14.00	12.00	12.00	12.00	3	0	0.00	37.00	64.00												22311197.77	
2-Hexanone	µg/kg dry wt	40	0	0.00	6.40	10.00				3	0	0.00	19.00	33.00													
4-Methyl-2-pentanone (MIBK)	µg/kg dry wt	40	1	0.03	5.80	9.00	8.50	8.50	8.50	3	0	0.00	17.00	29.00												5280885.75	

Table 5-4. Summary Statistics for Landfill Surface Soil (0-1 ft bgs) (page 4 of 5)

Analyte	Unit	IR Site 2 Landfill								CCSP Upland								Alameda PCDD/PCDF								U.S. EPA Region 9 Residential PRG[a]	Alameda Background[b]
		Number of Samples			Nondetects		Detects			Number of Samples			Nondetects		Detects			Number of Samples			Nondetects		Detects				
		Total	Detects	Frequency of Detects (%)	Min MDL	Max MDL	Minimum Detect	Mean Detect	Maximum Detect	Total	Detects	Frequency of Detects (%)	Min MDL	Max MDL	Minimum Detect	Mean Detect	Maximum Detect	Total	Detects	Frequency of Detects (%)	Min MDL	Max MDL	Minimum Detect	Mean Detect	Maximum Detect		
VOCs (Continued)																											
Acetone	µg/kg dry wt	40	7	0.18	11.00	17.00	16.00	28.86	56.00	3	0	0.00	31.00	53.00												14126570.63	
Benzene	µg/kg dry wt	40	0	0.00	0.83	1.30				3	0	0.00	2.40	4.20												643.15	
Bromochloromethane	µg/kg dry wt	40	0	0.00	0.55	0.85				3	0	0.00	3.00	5.20													
Bromodichloromethane	µg/kg dry wt	40	0	0.00	0.56	0.87				3	0	0.00	1.60	2.80												824.28	
Bromoform	µg/kg dry wt	40	0	0.00	0.68	1.10				3	0	0.00	2.40	4.10												61568.89	
Bromomethane	µg/kg dry wt	40	0	0.00	0.84	1.40				3	0	0.00	2.50	4.30												3896.56	
Carbon Disulfide	µg/kg dry wt	40	0	0.00	1.60	2.50				3	0	0.00	4.60	7.90												355340.37	
Carbon Tetrachloride	µg/kg dry wt	40	0	0.00	0.63	0.98				3	0	0.00	1.90	3.20												251.25	
Chlorobenzene	µg/kg dry wt	40	0	0.00	0.74	1.20				3	0	0.00	2.20	3.70												150657.86	
Chloroethane	µg/kg dry wt	40	0	0.00	0.82	1.30				3	0	0.00	2.40	4.20												3025.82	
Chloroform	µg/kg dry wt	40	0	0.00	0.60	0.93				3	0	0.00	1.80	3.00												220.79	
Chloromethane	µg/kg dry wt	40	0	0.00	1.10	1.70				3	0	0.00	3.00	5.30												46853.46	
cis-1,2-Dichloroethene	µg/kg dry wt	40	0	0.00	0.87	1.40				3	0	0.00	2.50	4.40												42941.90	
cis-1,3-Dichloropropene	µg/kg dry wt	40	0	0.00	0.80	1.30				3	0	0.00	2.30	4.00													
Cyclohexane	µg/kg dry wt	40	0	0.00	0.70	1.10				3	0	0.00	2.10	3.60												140000.00	
Dibromochloromethane	µg/kg dry wt	40	0	0.00	0.63	0.98				3	0	0.00	1.90	3.20												1108.86	
Dichlorodifluoromethane	µg/kg dry wt	40	0	0.00	0.74	1.20				3	0	0.00	2.20	3.70												93879.10	
Ethylbenzene	µg/kg dry wt	40	0	0.00	0.60	0.93				3	0	0.00	1.80	3.00												395000.00	
Isopropyl ether	µg/kg dry wt	40	0	0.00	0.27	0.41				3	0	0.00	1.10	1.80													
Isopropylbenzene	µg/kg dry wt	40	0	0.00	0.72	1.20				3	0	0.00	2.10	3.60												157027.37	
m,p-Xylenes	µg/kg dry wt	40	0	0.00	1.60	2.50				3	0	0.00	4.60	7.90												270630.54	
Methyl Acetate	µg/kg dry wt	40	0	0.00	0.77	1.20				3	0	0.00	2.30	3.90												22086744.01	
Methyl tert-Butyl Ether (MTBE)	µg/kg dry wt	40	0	0.00	0.67	1.10				3	0	0.00	2.00	3.50												9165464.55	
Methylcyclohexane	µg/kg dry wt	40	0	0.00	0.75	1.20				3	0	0.00	2.20	3.80												2591055.17	
Methylene Chloride	µg/kg dry wt	40	21	0.53	1.10	1.60	1.20	31.47	140.00	3	0	0.00	7.60	14.00												9106.99	
o-Xylene	µg/kg dry wt	40	0	0.00	0.73	1.20				3	0	0.00	2.10	3.70													
Styrene	µg/kg dry wt	40	0	0.00	0.77	1.20				3	0	0.00	2.20	3.90												1700000.00	
Tetrachloroethene (PCE)	µg/kg dry wt	40	0	0.00	0.33	0.51				3	0	0.00	0.94	1.70												483.59	
Toluene	µg/kg dry wt	40	0	0.00	0.88	1.40				3	0	0.00	2.60	4.50												520000.00	
trans-1,2-Dichloroethene	µg/kg dry wt	40	0	0.00	0.77	1.20				3	0	0.00	2.20	3.90												69489.63	
trans-1,3-Dichloropropene	µg/kg dry wt	40	0	0.00	0.63	0.98				3	0	0.00	1.90	3.20													
Trichloroethene (TCE)	µg/kg dry wt	40	0	0.00	0.30	0.46				3	0	0.00	0.85	1.50												2944.10	
Trichlorofluoromethane	µg/kg dry wt	40	0	0.00	0.77	1.20				3	0	0.00	2.20	3.90												385817.90	
Vinyl Chloride	µg/kg dry wt	40	0	0.00	0.65	1.10				3	0	0.00	1.90	3.30												79.07	
PCDD/PCDF																											
1,2,3,4,6,7,8-HpCDD	ng/kg dry wt	22	22	1.00	0.08	5.48	33.40	369.33	1853.91									6	6	1.00	0.04	0.67	0.67	26.84	61.96		
1,2,3,4,6,7,8-HpCDF	ng/kg dry wt	22	22	1.00	0.05	1.03	5.71	74.12	302.11									6	6	1.00	0.03	0.59	0.29	39.12	107.39		
1,2,3,4,7,8,9-HpCDF	ng/kg dry wt	22	20	0.91	0.06	1.38	0.32	4.22	13.59									6	2	0.33	0.04	1.00	0.34	0.63	0.93		
1,2,3,4,7,8-HxCDD	ng/kg dry wt	22	21	0.95	0.03	1.08	0.14	1.49	5.05									6	2	0.33	0.04	0.35	0.25	0.32	0.40		
1,2,3,4,7,8-HxCDF	ng/kg dry wt	22	22	1.00	0.05	0.70	0.56	6.58	19.41									6	6	1.00	0.03	0.47	0.11	0.87	1.39		
1,2,3,6,7,8-HxCDD	ng/kg dry wt	22	22	1.00	0.03	1.00	1.12	10.25	34.62									6	4	0.67	0.03	0.27	1.02	1.89	2.57		
1,2,3,6,7,8-HxCDF	ng/kg dry wt	22	22	1.00	0.05	0.66	0.34	2.60	7.64									6	6	1.00	0.03	0.41	0.06	0.55	0.99		
1,2,3,7,8,9-HxCDD	ng/kg dry wt	22	21	0.95	0.03	1.05	0.78	6.08	15.73									6	4	0.67	0.03	0.34	0.52	1.14	1.83		
1,2,3,7,8,9-HxCDF	ng/kg dry wt	22	4	0.18	0.06	0.86	0.10	0.31	0.78									6	0	0.00	0.04	0.64					
1,2,3,7,8-PeCDD	ng/kg dry wt	22	22	1.00	0.04	0.69	0.20	1.34	2.75									6	1	0.17	0.05	0.42	0.45	0.45	0.45		
1,2,3,7,8-PeCDF	ng/kg dry wt	22	19	0.86	0.02	0.64	0.18	1.51	7.89									6	0	0.00	0.05	0.29					
2,3,4,6,7,8-HxCDF	ng/kg dry wt	22	22	1.00	0.05	0.71	0.54	3.49	7.59									6	6	1.00	0.03	0.48	0.10	1.14	2.39		
2,3,4,7,8-PeCDF	ng/kg dry wt	22	22	1.00	0.02	0.60	0.17	3.10	25.09									6	3	0.50	0.04	0.28	0.33	0.46	0.65		
2,3,7,8-TCDD	ng/kg dry wt	22	21	0.95	0.02	0.49	0.13	0.89	1.73									6	0	0.00	0.06	0.41				3.90	
2,3,7,8-TCDF	ng/kg dry wt	22	17	0.77	0.23	4.77	1.24	3.60	10.62									6	1	0.17	0.07	1.56	0.58	0.58	0.58		

Table 5-4. Summary Statistics for Landfill Surface Soil (0-1 ft bgs) (page 5 of 5)

Analyte	Unit	IR Site 2 Landfill								CCSP Upland								Alameda PCDD/PCDF								U.S. EPA Region 9 Residential PRG[a]	Alameda Background[b]
		Number of Samples			Nondetects		Detects			Number of Samples			Nondetects		Detects			Number of Samples			Nondetects		Detects				
		Total	Detects	Frequency of Detects (%)	Min MDL	Max MDL	Minimum Detect	Mean Detect	Maximum Detect	Total	Detects	Frequency of Detects (%)	Min MDL	Max MDL	Minimum Detect	Mean Detect	Maximum Detect	Total	Detects	Frequency of Detects (%)	Min MDL	Max MDL	Minimum Detect	Mean Detect	Maximum Detect		
PCDD/PCDF (Continued)																											
OCDD	ng/kg dry wt	22	22	1.00	0.04	3.27	298.95	4537.54	29746.03									6	6	1.00	0.06	1.23	4.34	206.84	505.19		
OCDF	ng/kg dry wt	22	22	1.00	0.03	3.30	13.81	307.85	2536.10									6	6	1.00	0.05	1.53	0.34	20.99	42.72		
Tetrachlorodibenzofuran	ng/kg dry wt	22	22	1.00	0.05	0.41	1.93	64.85	727.29									6	4	0.67	0.07	0.44	1.91	4.20	7.49		
TEQ_bird	ng/kg dry wt	22	22	1.00			0.87	11.50	43.54									6	6	1.00			0.03	1.17	2.26		
TEQ_mamm	ng/kg dry wt	22	22	1.00			1.23	12.06	40.55									6	6	1.00			0.04	1.35	2.81	3.90	
PETROLEUM HYDROCARBONS																											
Diesel	mg/kg dry wt	19	19	1.00	7	41	8	208	1200																		
Gasoline	mg/kg dry wt	19	9	0.47	4	23	4	18	49																		
Residual Range Organics (RRO)	mg/kg dry wt	19	19	1.00	5	270	77	1107	10000																		
RADIONUCLIDES																											
Gross alpha	pCi/g dry wt	8	7	0.88	6.80	8.70	11.20	14.54	19.50																		
Gross beta	pCi/g dry wt	8	8	1.00	7.20	13.00	20.60	25.45	31.00																		
Pb 210	pCi/g dry wt	8	1	0.13	0.69	1.50	0.79	0.79	0.79																		
Ra 226	pCi/g dry wt	14	9	0.64	0.05	1.20	0.30	0.66	1.76																		
Ra 228	pCi/g dry wt	14	5	0.36	0.17	5.80	0.53	1.62	3.20																		
U 234	pCi/g dry wt	8	8	1.00	0.01	0.05	0.27	0.39	0.53																		
U 235	pCi/g dry wt	8	5	0.63	0.02	0.07	0.02	0.04	0.08																		
U 238	pCi/g dry wt	8	8	1.00	0.01	0.05	0.34	0.39	0.54																		
EXPLOSIVES																											
1,3,5-Trinitrobenzene	mg/kg dry wt	2	0	0.00	0.06	0.07																				1833.09	
1,3-Dinitrobenzene	mg/kg dry wt	2	1	0.50	0.06	0.06	0.31	0.31	0.31																	6.11	
2,4,6-Trinitrotoluene	mg/kg dry wt	2	0	0.00	0.08	0.09																				16.21	
2,4-Dinitrotoluene	mg/kg dry wt	2	1	0.50	0.06	0.06	0.28	0.28	0.28																	122206.19	
2,6-Dinitrotoluene	mg/kg dry wt	2	0	0.00	0.10	0.11																				61103.10	
2-Amino-4,6-dinitrotoluene	mg/kg dry wt	2	0	0.00	0.09	0.11																					
2-Nitrotoluene	mg/kg dry wt	2	0	0.00	0.09	0.11																					
3-Nitrotoluene	mg/kg dry wt	2	0	0.00	0.11	0.12																				733.49	
4-Amino-2,6-dinitrotoluene	mg/kg dry wt	2	0	0.00	0.08	0.09																					
4-Nitrotoluene	mg/kg dry wt	2	0	0.00	0.12	0.13																				11.93	
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	mg/kg dry wt	2	0	0.00	0.09	0.11																				4.42	
Methyl-2,4,6-trinitrophenylnitramine (Tetryl)	mg/kg dry wt	2	0	0.00	0.08	0.09																				611.03	
Nitrobenzene	mg/kg dry wt	2	0	0.00	0.08	0.08																				19641.20	
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	mg/kg dry wt	2	0	0.00	0.07	0.08																				3055.15	
GENERAL CHEMISTRY																											
Solids	pct	54	54	1.00			70.9	90.9	99.2	6	6	1.00			75.2	80.1	85.2										
TOC	pct	10	10	1.00	0.02	0.02	1.0	1.7	3.3																		
Clay	pct	10	10	1.00			0.5	10.0	27.8																		
Gravel	pct	20	20	1.00			0.6	6.5	23.9																		
Sand	pct	30	30	1.00			1.1	9.6	41.6																		
Silt	pct	10	10	1.00			3.2	14.0	24.5																		

(a) U.S. EPA, 2004a. Region 9 PRGs for Residential Soil, October.
(b) TtEMI, 2001. *Summary of Background Concentrations in Soil and Groundwater, Alameda Point, California.*

Table 5-5. Summary Statistics for Landfill Subsurface Soil (1 ft to TD)

Analyte	Unit	IR Site 2 Landfill								CCSP Upland								Alameda PCDD/PCDF								U.S. EPA Region 9 Residential PRG[a]	Alameda Background[b]
		Number of Samples			Nondetects		Detects			Number of Samples			Nondetects		Detects			Number of Samples			Nondetects		Detects				
		Total	Detects	Frequency of Detect (%)	Min MDL	Max MDL	Minimum Detect	Mean Detect	Maximum Detect	Total	Detects	Frequency of Detect (%)	Min MDL	Max MDL	Minimum Detect	Mean Detect	Maximum Detect	Total	Detects	Frequency of Detect (%)	Min MDL	Max MDL	Minimum Detect	Mean Detect	Maximum Detect		
METALS																											
Silver	mg/kg dry wt	90	90	1.00	0.003	0.014	0.016	1.703	59.100	3	3	1.00	0.002	0.002	0.066	0.112	0.186									391.071	4
Aluminum	mg/kg dry wt	90	90	1.00	5	105	2850	10194	118000	3	3	1.00	9	17	24400	25167	26000									76142	6869
Arsenic	mg/kg dry wt	90	90	1.00	0.01	0.11	0.71	5.17	76.10	3	3	1.00	0.19	0.44	6.74	7.87	8.49									0.39	9.4
Barium	mg/kg dry wt	90	90	1.00	0.1	0.3	12.9	74.0	474.0	3	3	1.00	0.1	0.2	177.0	643.3	1530.0									5374.9	43.5
Beryllium	mg/kg dry wt	90	88	0.98	0.03	0.13	0.10	0.25	0.85	3	3	1.00	0.04	0.05	0.72	1.14	1.43									154.37	0.63
Cadmium	mg/kg dry wt	90	59	0.66	0.1	1.0	0.7	13.3	125.0	3	3	1.00	0.1	0.1	1.9	2.6	3.5									37.0	0.8
Hexavalent Chromium	mg/kg dry wt	39	0	0.00	0.3	0.4																				30.1	
Cobalt	mg/kg dry wt	90	90	1.00	0.3	2.6	3.3	10.5	62.2	3	3	1.00	0.3	0.3	30.8	36.4	40.2									902.9	4.9
Chromium	mg/kg dry wt	90	90	1.00	0.3	6.3	21.8	93.3	2140.0	3	3	1.00	0.1	0.2	25.0	88.4	199.0									210.7	34.4
Copper	mg/kg dry wt	90	90	1.00	0.5	9.5	3.1	247.1	4920.0	3	3	1.00	2.2	4.3	35.3	149.1	263.0									3128.6	19.3
Iron	mg/kg dry wt	90	90	1.00	1	32	6070	28941	144000	3	3	1.00	2	4	38600	60833	80200									23463	11410
Mercury	µg/kg dry wt	90	90	1.00	1	15	11	690	10100	3	3	1.00	0.6	0.6	47	75	101										120
Magnesium	mg/kg dry wt	90	90	1.00	0.3	5	1660	3885	13000	3	3	1.00	2	4	4710	10537	20400										3178
Manganese	mg/kg dry wt	90	90	1.00	0.1	3	82	342	1420	3	3	1.00	0.2	0.4	756	2717	6480									1762	157.6
Molybdenum	mg/kg dry wt	90	30	0.33	1	2.6	2.5	9.2	37.1	3	2	0.67	0.6	0.7	0.8	1.2	1.5									391.1	
Nickel	mg/kg dry wt	90	90	1.00	0.01	3.7	6.7	50.9	223.0	3	3	1.00	0.2	0.4	33.1	106.8	227.0									1564.3	30.6
Lead	mg/kg dry wt	51	51	1.00	2.7	47.8	14.9	1434.7	59600.0	3	3	1.00	0.05	0.1	51.5	89.8	139.0									400.0	51.7
Antimony	mg/kg dry wt	90	79	0.88	0.02	1.91	0.18	21.71	687.00	3	3	1.00	0.03	0.03	0.42	0.51	0.65									31.29	3.1
Selenium	mg/kg dry wt	90	70	0.78	0	0.2	0.1	0.3	0.8	3	1	0.33	0.5	1.1	1.8	1.8	1.8									391.1	
Thallium	mg/kg dry wt	90	83	0.92	0	0.004	0.030	0.065	0.261	3	1	0.33	0.009	0.022	0.111	0.111	0.111									5.162	
Tri-*n*-butyltin Cation	µg/kg dry wt	16	6	0.38	0.2	1.9	0.4	80.6	480.0																		
Vanadium	mg/kg dry wt	90	90	1.00	0.5	1.2	11.0	29.0	78.2	3	3	1.00	2.2	4.3	66.7	124.6	220.0									78.2	27.9
Zinc	mg/kg dry wt	90	90	1.00	0.3	5	14	539	10100	3	3	1.00	0.4	0.9	78	107	157									23463	56.8
SVOCs/PAHs																											
1,1'-Byphenyl	µg/kg dry wt	90	8	0.09	4.90	2400.00	41.00	10146.38	39000.00	3	0	0.00	6.30	29.00													
1,2,4,5-Tetrachlorobenzene	µg/kg dry wt	90	1	0.01	5.00	2400.00	120.00	120.00	120.00	3	0	0.00	6.40	30.00												184681.89	
2,4,5-Trichlorophenol	µg/kg dry wt	90	0	0.00	3.10	1500.00				3	0	0.00	3.90	18.00												6110309.70	
2,4,6-Trichlorophenol	µg/kg dry wt	90	0	0.00	1.90	880.00				3	0	0.00	2.40	11.00												6110.31	
2,4-Dichlorophenol	µg/kg dry wt	90	0	0.00	1.90	880.00				3	0	0.00	2.40	11.00												183309.29	
2,4-Dimethylphenol	µg/kg dry wt	90	1	0.01	5.60	2700.00	3300.00	3300.00	3300.00	3	0	0.00	7.20	33.00												1222061.94	
2,4-Dinitrophenol	µg/kg dry wt	90	0	0.00	37.00	18000.00				3	0	0.00	47.00	220.00												122206.19	
2-Chloronaphthalene	µg/kg dry wt	90	2	0.02	3.70	1800.00	740.00	1020.00	1300.00	3	0	0.00	4.70	22.00												4936640.54	
2-Chlorophenol	µg/kg dry wt	90	1	0.01	1.80	830.00	7.10	7.10	7.10	3	0	0.00	2.20	11.00												63398.46	
2-Methyl-4,6-dinitrophenol	µg/kg dry wt	90	0	0.00	1.80	830.00				3	0	0.00	2.20	11.00													
2-Methylnaphthalene	µg/kg dry wt	90	66	0.73	1.30	2400.00	2.60	11023.48	370000.00	3	1	0.33	1.60	7.20	8.60	8.60	8.60										
2-Methylphenol	µg/kg dry wt	90	2	0.02	3.50	1700.00	16.00	413.00	810.00	3	0	0.00	4.40	21.00												3055154.85	
2-Nitroaniline	µg/kg dry wt	90	0	0.00	2.80	1400.00				3	0	0.00	3.50	16.00												182772.21	
2-Nitrophenol	µg/kg dry wt	90	0	0.00	2.70	1300.00				3	0	0.00	3.40	16.00													
3,3'-Dichlorobenzidine	µg/kg dry wt	90	0	0.00	3.80	1900.00				3	0	0.00	4.80	22.00												1080.85	
3-Nitroaniline	µg/kg dry wt	90	0	0.00	2.70	1300.00				3	0	0.00	3.40	16.00												18330.93	
4-Bromophenyl Phenyl Ether	µg/kg dry wt	90	0	0.00	1.50	690.00				3	0	0.00	1.90	8.30													
4-Chloro-3-methylphenol	µg/kg dry wt	90	0	0.00	2.20	1100.00				3	0	0.00	2.80	13.00													
4-Chloroaniline	µg/kg dry wt	90	3	0.03	2.20	1100.00	21.00	33.67	56.00	3	0	0.00	2.80	13.00												244412.39	
4-Chlorophenyl Phenyl Ether	µg/kg dry wt	90	0	0.00	2.10	980.00				3	0	0.00	2.60	12.00													
4-Methylphenol	µg/kg dry wt	90	12	0.13	3.00	1500.00	11.00	308.08	2500.00	3	0	0.00	3.80	18.00												305515.49	
4-Nitroaniline	µg/kg dry wt	90	0	0.00	3.50	1700.00				3	0	0.00	4.40	21.00												23160.98	
4-Nitrophenol	µg/kg dry wt	90	0	0.00	31.00	15000.00				3	0	0.00	39.00	180.00													
Acenaphthene	µg/kg dry wt	90	60	0.67	1.10	4900.00	1.30	19320.34	630000.00	3	1	0.33	1.30	6.00	190.00	190.00	190.00									3681705.75	
Acenaphthylene	µg/kg dry wt	90	37	0.41	1.50	690.00	1.90	217.17	5400.00	3	0	0.00	1.90	8.30													
Acetophenone	µg/kg dry wt	90	12	0.13	13.00	5900.00	15.00	82.25	290.00	3	3	1.00	16.00	72.00	41.00	123.67	220.00										
Anthracene	µg/kg dry wt	90	63	0.70	1.50	690.00	1.80	5143.46	210000.00	3	1	0.33	1.90	8.30	54.00	54.00	54.00									21896120.62	
Atrazine	µg/kg dry wt	90	0	0.00	2.30	1100.00				3	0	0.00	2.90	14.00												2190.90	

Table 5-5. Summary Statistics for Landfill Subsurface Soil (1 ft to TD) (page 2 of 5)

Analyte	Unit	IR Site 2 Landfill								CCSP Upland								Alameda PCDD/PCDF								U.S. EPA Region 9 Residential PRG[a]	Alameda Background[b]
		Number of Samples			Nondetects		Detects			Number of Samples			Nondetects		Detects			Number of Samples			Nondetects		Detects				
		Total	Detects	Frequency of Detect (%)	Min MDL	Max MDL	Minimum Detect	Mean Detect	Maximum Detect	Total	Detects	Frequency of Detect (%)	Min MDL	Max MDL	Minimum Detect	Mean Detect	Maximum Detect	Total	Detects	Frequency of Detect (%)	Min MDL	Max MDL	Minimum Detect	Mean Detect	Maximum Detect		
SVOCs/PAHs (Continued)																											
Benzaldehyde	µg/kg dry wt	90	11	0.12	9.00	4300.00	35.00	210.36	1100.00	3	0	0.00	12.00	53.00												6110309.70	
Benzo(a)anthracene	µg/kg dry wt	90	82	0.91	1.50	690.00	2.70	1924.81	100000.00	3	3	1.00	1.90	8.30	1.90	635.07	1900.00									621.46	
Benzo(a)pyrene	µg/kg dry wt	90	80	0.89	1.70	790.00	2.70	829.80	35000.00	3	2	0.67	2.10	38.00	2.50	2151.25	4300.00									62.15	537400
Benzo(b)fluoranthene	µg/kg dry wt	90	78	0.87	2.60	1300.00	3.20	1211.60	55000.00	3	2	0.67	3.30	60.00	5.80	2052.90	4100.00									621.46	
Benzo(g,h,i)perylene	µg/kg dry wt	90	81	0.90	2.40	1200.00	2.80	402.35	9900.00	3	2	0.67	3.00	55.00	3.30	1701.65	3400.00										538900
Benzo(k)fluoranthene	µg/kg dry wt	90	51	0.57	2.60	1300.00	4.00	690.69	21000.00	3	1	0.33	3.30	15.00	1600.00	1600.00	1600.00									6214.57	
Bis(2-chloroethoxy) methane	µg/kg dry wt	90	0	0.00	1.40	640.00				3	0	0.00	1.70	7.80													
Bis(2-chloroethyl) Ether	µg/kg dry wt	90	0	0.00	2.50	1200.00				3	0	0.00	3.20	15.00												217.50	
Bis(2-ethylhexyl) Phthalate	µg/kg dry wt	90	61	0.68	1.80	18000.00	75.00	35234.75	1800000.00	3	0	0.00	2.20	11.00												34741.47	
Bis(chloroisopropyl) Ether	µg/kg dry wt	90	0	0.00	1.30	590.00				3	0	0.00	1.60	7.20												2884.22	
Butyl Benzyl Phthalate	µg/kg dry wt	90	52	0.58	1.60	16000.00	2.60	42620.65	2200000.00	3	1	0.33	2.00	8.90	3.60	3.60	3.60									12220619.40	
Caprolactam	µg/kg dry wt	90	8	0.09	13.00	5900.00	120.00	21162.50	130000.00	3	0	0.00	16.00	72.00												30551548.50	
Carbazole	µg/kg dry wt	90	32	0.36	1.40	640.00	1.60	2577.66	37000.00	3	1	0.33	1.70	7.80	39.00	39.00	39.00									24319.03	
Chrysene	µg/kg dry wt	90	85	0.94	1.50	690.00	1.90	2015.03	97000.00	3	3	1.00	1.90	34.00	4.50	869.73	2600.00									62145.67	535600
Dibenz(a,h)anthracene	µg/kg dry wt	90	36	0.40	2.30	1100.00	3.00	178.59	3300.00	3	1	0.33	2.90	14.00	830.00	830.00	830.00									62.15	
Dibenzofuran	µg/kg dry wt	90	45	0.50	1.40	2600.00	1.70	9924.32	230000.00	3	0	0.00	1.70	7.80												145263.14	
Diethyl Phthalate	µg/kg dry wt	90	9	0.10	3.60	1800.00	4.50	73.12	210.00	3	0	0.00	4.50	21.00												48882477.61	
Dimethyl Phthalate	µg/kg dry wt	90	3	0.03	1.90	880.00	55.00	461.67	1200.00	3	0	0.00	2.40	11.00												100000000.00	
Di-*n*-butyl Phthalate	µg/kg dry wt	90	44	0.49	2.70	1300.00	3.20	215.25	2100.00	3	0	0.00	3.40	16.00												6110309.70	
Di-*n*-octyl Phthalate	µg/kg dry wt	90	3	0.03	1.30	590.00	300.00	650.00	1300.00	3	0	0.00	1.60	7.20												2444123.88	
Fluoranthene	µg/kg dry wt	90	83	0.92	2.30	11000.00	3.00	13628.55	840000.00	3	2	0.67	2.90	14.00	4.20	552.10	1100.00									2293610.18	545400
Fluorene	µg/kg dry wt	90	53	0.59	1.80	8300.00	2.90	16896.87	600000.00	3	1	0.33	2.20	11.00	16.00	16.00	16.00									2747106.60	
Hexachlorobenzene	µg/kg dry wt	90	0	0.00	2.20	1100.00				3	0	0.00	2.80	13.00												303.99	
Hexachlorobutadiene	µg/kg dry wt	90	0	0.00	1.50	690.00				3	0	0.00	1.90	8.30												6235.65	
Hexachlorocyclopentadiene	µg/kg dry wt	90	0	0.00	16.00	7400.00				3	0	0.00	20.00	89.00												365487.50	
Hexachloroethane	µg/kg dry wt	90	0	0.00	2.30	1100.00				3	0	0.00	2.90	14.00												34741.47	
Indeno(1,2,3-cd)pyrene	µg/kg dry wt	90	75	0.83	2.00	930.00	2.30	381.99	11000.00	3	2	0.67	2.50	46.00	3.00	1651.50	3300.00									621.46	538900
Isophorone	µg/kg dry wt	90	0	0.00	1.70	790.00				3	0	0.00	2.10	9.50												511979.49	
Naphthalene	µg/kg dry wt	90	69	0.77	1.40	5200.00	1.80	26742.13	1500000.00	3	0	0.00	1.70	7.80												55916.06	
N-Nitrosodi-*n*-propylamine	µg/kg dry wt	90	0	0.00	3.30	1600.00				3	0	0.00	4.20	19.00												69.48	
N-Nitrosodiphenylamine	µg/kg dry wt	90	17	0.19	2.30	1100.00	3.00	129.82	620.00	3	0	0.00	2.90	14.00												99261.33	
Pentachlorophenol	µg/kg dry wt	90	8	0.09	8.70	4200.00	55.00	844.63	2800.00	3	0	0.00	11.00	51.00												2978.99	
Phenanthrene	µg/kg dry wt	90	83	0.92	1.40	6400.00	2.60	25226.67	1400000.00	3	2	0.67	1.70	7.80	1.90	90.95	180.00										538800
Phenol	µg/kg dry wt	90	8	0.09	2.00	930.00	4.50	48.81	170.00	3	3	1.00	2.50	12.00	13.00	30.00	51.00									18330929.10	
Pyrene	µg/kg dry wt	90	90	1.00	1.40	6400.00	4.20	9221.46	580000.00	3	3	1.00	1.70	7.80	3.20	602.43	1800.00									2315951.12	549700
PCBs																											
Aroclor 1016	µg/kg dry wt	81	10	0.12	2.75	353.47	39.57	1270.55	7317.27	3	0	0.00	6.63	7.11												3933.08	
Aroclor 1016 MOD	µg/kg dry wt	81	0	0.00	2.75	353.47				3	0	0.00	6.63	7.11												3933.08	
Aroclor 1221	µg/kg dry wt	81	17	0.21	2.75	353.47	594.41	5547.85	15233.74	3	0	0.00	6.63	7.11													
Aroclor 1221 MOD	µg/kg dry wt	81	19	0.23	2.75	353.47	168.09	6729.64	35965.68	3	0	0.00	6.63	7.11													
Aroclor 1232	µg/kg dry wt	81	22	0.27	2.75	353.47	215.54	2739.03	8020.23	3	0	0.00	6.63	7.11													
Aroclor 1232 MOD	µg/kg dry wt	81	18	0.22	2.75	353.47	215.54	2911.43	11869.90	3	0	0.00	6.63	7.11													
Aroclor 1242	µg/kg dry wt	81	7	0.09	2.75	353.47	273.47	2185.85	5134.74	3	0	0.00	6.63	7.11													
Aroclor 1242 MOD	µg/kg dry wt	81	21	0.26	2.75	563.43	133.32	2149.47	12889.65	3	0	0.00	6.63	7.11													
Aroclor 1248	µg/kg dry wt	81	10	0.12	2.75	353.47	81.74	950.52	2239.98	3	0	0.00	6.63	7.11													
Aroclor 1248 MOD	µg/kg dry wt	81	15	0.19	2.75	353.47	55.49	905.04	3623.42	3	0	0.00	6.63	7.11													
Aroclor 1254	µg/kg dry wt	81	16	0.20	2.75	353.47	1.82	524.70	1515.61	3	0	0.00	6.63	7.11												221.86	
Aroclor 1254 MOD	µg/kg dry wt	81	32	0.40	2.75	353.47	1.82	801.16	7934.35	3	0	0.00	6.63	7.11												221.86	
Aroclor 1260	µg/kg dry wt	81	25	0.31	2.75	353.47	18.06	5334.58	46268.10	3	0	0.00	6.63	7.11													
Aroclor 1260 MOD	µg/kg dry wt	81	20	0.25	2.75	1487.88	18.06	6272.21	46268.10	3	0	0.00	6.63	7.11													
Total PCBs (NOAA)	µg/kg dry wt	81	81	1.00			0.56	2947.98	52424.64	3	1	0.33	0.55	0.58	0.46	0.46	0.46									221.86	
Total PCBs (AROCLOR)	µg/kg dry wt	81	70	0.86	2.79	54.36	1.82	4780.63	47768.42	3	0	0.00														221.86	
Total PCBs (AROCLOR_MOD)	µg/kg dry wt	81	70	0.86	2.79	54.36	1.82	5622.40	46268.10	3	0	0.00														221.86	
PESTICIDES																											
2,4-DDD	µg/kg dry wt	81	55	0.68	0.01	41.23	0.28	18.07	163.39	3	0	0.00	0.01	0.02													
2,4-DDE	µg/kg dry wt	81	15	0.19	0.02	3.10	0.05	1.55	7.85	3	0	0.00	0.03	0.03													
2,4-DDT	µg/kg dry wt	81	18	0.22	0.01	5.86	0.09	12.77	105.24	3	0	0.00	0.01	0.02													
4,4-DDD	µg/kg dry wt	81	77	0.95	0.03	13.34	0.02	33.81	464.08	3	2	0.67	0.03	0.04	0.09	0.20	0.31									2436.60	

Table 5-5. Summary Statistics for Landfill Subsurface Soil (1 ft to TD) (page 3 of 5)

Analyte	Unit	IR Site 2 Landfill								CCSP Upland								Alameda PCDD/PCDF								U.S. EPA Region 9 Residential PRG[a]	Alameda Background[b]
		Number of Samples			Nondetects		Detects			Number of Samples			Nondetects		Detects			Number of Samples			Nondetects		Detects				
		Total	Detects	Frequency of Detect (%)	Min MDL	Max MDL	Minimum Detect	Mean Detect	Maximum Detect	Total	Detects	Frequency of Detect (%)	Min MDL	Max MDL	Minimum Detect	Mean Detect	Maximum Detect	Total	Detects	Frequency of Detect (%)	Min MDL	Max MDL	Minimum Detect	Mean Detect	Maximum Detect		
PESTICIDES (Continued)																											
4,4-DDE	µg/kg dry wt	81	73	0.90	0.01	41.23	0.06	14.39	148.73	3	3	1.00	0.01	0.02	0.17	0.83	2.10									1719.96	
4,4-DDT	µg/kg dry wt	81	40	0.49	0.01	4.46	0.06	6.45	56.66	3	3	1.00	0.01	0.01	0.05	1.74	5.10									1719.96	
Total DDDs	µg/kg dry wt	81	77	0.95					627.47	3	2	0.67					0.31										
Total DDEs	µg/kg dry wt	81	74	0.91					148.73	3	3	1.00					2.10										
Total DDTs	µg/kg dry wt	81	43	0.53					105.24	3	3	1.00					5.10										
Total DDx	µg/kg dry wt	81	78	0.96					747.88	3	3	1.00					7.51										
alpha-Chlordane	µg/kg dry wt	81	54	0.67	0.02	22.01	0.07	44.85	1920.25	3	1	0.33	0.03	0.03	0.29	0.29	0.29										
a-BHC	µg/kg dry wt	81	6	0.07	0.06	7.82	0.02	3.28	17.46	3	0	0.00	0.07	0.08												90.22	
Aldrin	µg/kg dry wt	81	2	0.02	0.02	3.18	0.19	0.31	0.43	3	0	0.00	0.03	0.03												28.61	
beta-BHC	µg/kg dry wt	81	1	0.01	0.05	6.17	0.33	0.33	0.33	3	0	0.00	0.06	0.06												315.75	
cis-nonachlor	µg/kg dry wt	81	39	0.48	0.02	7.27	0.10	20.30	534.07	3	1	0.33	0.02	0.02	0.11	0.11	0.11										
delta-HCH	µg/kg dry wt	81	0	0.00	0.04	4.77				3	0	0.00	0.04	0.05													
Dieldrin	µg/kg dry wt	81	40	0.49	0.02	8.90	0.06	5.21	48.31	3	3	1.00	0.02	0.02	0.06	0.13	0.23									30.40	
Endosulfan I	µg/kg dry wt	81	5	0.06	0.03	4.39	0.07	0.65	1.80	3	0	0.00	0.04	0.04													
Endosulfan II	µg/kg dry wt	81	40	0.49	0.03	15.44	0.04	12.04	211.68	3	0	0.00	0.04	0.04													
Endosulfan sulfate	µg/kg dry wt	81	5	0.06	0.02	1.98	0.16	8.38	28.04	3	0	0.00	0.02	0.02													
Endrin	µg/kg dry wt	81	1	0.01	0.03	3.37	1.75	1.75	1.75	3	0	0.00	0.03	0.03												18330.93	
Endrin aldehyde	µg/kg dry wt	81	6	0.07	0.03	4.20	0.46	2.04	3.83	3	0	0.00	0.04	0.04													
Endrin ketone	µg/kg dry wt	81	1	0.01	0.02	2.80	3.79	3.79	3.79	3	0	0.00	0.03	0.03													
gamma-BHC (Lindane)	µg/kg dry wt	81	8	0.10	0.02	2.61	0.11	0.46	2.23	3	0	0.00	0.02	0.03												437.20	
gamma-Chlordane	µg/kg dry wt	81	46	0.57	0.01	13.13	0.06	53.84	1960.24	3	0	0.00	0.02	0.02													
Heptachlor	µg/kg dry wt	81	1	0.01	0.02	2.61	0.07	0.07	0.07	3	0	0.00	0.02	0.03												108.08	
Heptachlor epoxide	µg/kg dry wt	81	1	0.01	0.02	2.80	0.86	0.86	0.86	3	0	0.00	0.03	0.03												53.45	
Methoxychlor	µg/kg dry wt	81	4	0.05	0.58	73.97	0.19	0.50	0.89	3	1	0.33	0.69	0.74	0.26	0.26	0.26									305515.49	
Toxaphene	µg/kg dry wt	81	0	0.00	2.75	353.69				3	0	0.00	6.63	7.12												442.16	
trans-Nonachlor	µg/kg dry wt	81	52	0.64	0.02	7.27	0.05	24.70	1025.55	3	3	1.00	0.02	0.02	0.09	0.25	0.55										
VOCs																											
1,1,1-Trichloroethane (TCA)	µg/kg dry wt	75	0	0.00	0.58	1.70				3	0	0.00	1.80	3.00												1200000.00	
1,1,2,2-Tetrachloroethane	µg/kg dry wt	75	1	0.01	0.74	15.00	43.00	43.00	43.00	3	0	0.00	2.30	3.90												407.62	
1,1,2-trichloro-1,2,2-trifluoroethane	µg/kg dry wt	75	0	0.00	0.75	2.20				3	0	0.00	2.30	3.90													
1,1,2-Trichloroethane	µg/kg dry wt	75	0	0.00	0.70	2.00				3	0	0.00	2.10	3.70												728.63	
1,1-Dichloroethane	µg/kg dry wt	75	0	0.00	0.80	2.30				3	0	0.00	2.40	4.20												506396.83	
1,1-Dichloroethene	µg/kg dry wt	75	0	0.00	0.70	2.00				3	0	0.00	2.20	3.80												123530.68	
1,2,3-Trichlorobenzene	µg/kg dry wt	75	1	0.01	0.92	2.60	1.50	1.50	1.50	3	0	0.00	2.80	4.80													
1,2,4-Trichlorobenzene	µg/kg dry wt	75	1	0.01	0.79	2.30	3.80	3.80	3.80	3	0	0.00	2.40	4.10												62159.76	
1,2-Dibromo-3-chloropropane	µg/kg dry wt	75	0	0.00	0.87	2.50				3	0	0.00	2.60	4.50												460.00	
1,2-Dibromoethane (EDB)	µg/kg dry wt	75	0	0.00	0.81	2.30				3	0	0.00	2.40	4.20												32.00	
1,2-Dichlorobenzene	µg/kg dry wt	75	7	0.09	0.66	1.90	0.88	2.05	4.00	3	0	0.00	2.00	3.50												600000.00	
1,2-Dichloroethane (EDC)	µg/kg dry wt	75	0	0.00	0.68	2.00				3	0	0.00	2.10	3.60												277.73	
1,2-Dichloropropane	µg/kg dry wt	75	0	0.00	0.73	2.10				3	0	0.00	2.20	3.80												342.16	
1,3-Dichlorobenzene	µg/kg dry wt	75	2	0.03	0.72	2.10	1.30	1.80	2.30	3	0	0.00	2.20	3.80												531349.38	
1,4-Dichlorobenzene	µg/kg dry wt	75	30	0.40	0.84	2.40	1.40	14.09	50.00	3	0	0.00	2.50	4.40												3446.54	
2-Butanone (MEK)	µg/kg dry wt	75	12	0.16	8.60	25.00	9.40	20.87	32.00	3	0	0.00	37.00	64.00												22311197.77	
2-Hexanone	µg/kg dry wt	75	0	0.00	6.20	18.00				3	0	0.00	19.00	33.00													
4-Methyl-2-pentanone (MIBK)	µg/kg dry wt	75	0	0.00	5.60	16.00				3	0	0.00	17.00	29.00												5280885.75	
Acetone	µg/kg dry wt	75	57	0.76	11.00	29.00	13.00	49.63	160.00	3	0	0.00	31.00	53.00												14126570.63	
Benzene	µg/kg dry wt	75	10	0.13	0.81	2.30	1.10	3.17	7.80	3	0	0.00	2.40	4.20												643.15	
Bromochloromethane	µg/kg dry wt	75	0	0.00	0.53	1.50				3	0	0.00	3.00	5.20													
Bromodichloromethane	µg/kg dry wt	75	1	0.01	0.54	1.60	0.82	0.82	0.82	3	0	0.00	1.60	2.80												824.28	
Bromoform	µg/kg dry wt	75	0	0.00	0.66	1.90				3	0	0.00	2.40	4.10												61568.89	
Bromomethane	µg/kg dry wt	75	0	0.00	0.82	2.40				3	0	0.00	2.50	4.30												3896.56	
Carbon Disulfide	µg/kg dry wt	75	5	0.07	1.60	4.40	1.90	3.46	5.50	3	0	0.00	4.60	7.90												355340.37	
Carbon Tetrachloride	µg/kg dry wt	75	0	0.00	0.61	1.80				3	0	0.00	1.90	3.20												251.25	
Chlorobenzene	µg/kg dry wt	75	29	0.39	0.01	2.10	1.90	18.27	95.00	3	0	0.00	2.20	3.70												150657.86	
Chloroethane	µg/kg dry wt	75	0	0.00	0.80	2.30				3	0	0.00	2.40	4.20												3025.82	
Chloroform	µg/kg dry wt	75	0	0.00	0.58	1.70				3	0	0.00	1.80	3.00												220.79	
Chloromethane	µg/kg dry wt	75	0	0.00	1.10	2.90				3	0	0.00	3.00	5.30												46853.46	

Table 5-5. Summary Statistics for Landfill Subsurface Soil (1 ft to TD) (page 4 of 5)

Analyte	Unit	IR Site 2 Landfill								CCSP Upland								Alameda PCDD/PCDF								U.S. EPA Region 9 Residential PRG[a]	Alameda Background[b]
		Number of Samples			Nondetects		Detects			Number of Samples			Nondetects		Detects			Number of Samples			Nondetects		Detects				
		Total	Detects	Frequency of Detect (%)	Min MDL	Max MDL	Minimum Detect	Mean Detect	Maximum Detect	Total	Detects	Frequency of Detect (%)	Min MDL	Max MDL	Minimum Detect	Mean Detect	Maximum Detect	Total	Detects	Frequency of Detect (%)	Min MDL	Max MDL	Minimum Detect	Mean Detect	Maximum Detect		
VOCs (Continued)																											
cis-1,2-Dichloroethene	µg/kg dry wt	75	1	0.01	0.85	2.40	9.30	9.30	9.30	3	0	0.00	2.50	4.40												42941.90	
cis-1,3-Dichloropropene	µg/kg dry wt	75	0	0.00	0.78	2.20				3	0	0.00	2.30	4.00													
Cyclohexane	µg/kg dry wt	75	4	0.05	0.68	2.00	0.78	2.40	4.30	3	0	0.00	2.10	3.60												140000.00	
Dibromochloromethane	µg/kg dry wt	75	0	0.00	0.61	1.80				3	0	0.00	1.90	3.20												1108.86	
Dichlorodifluoromethane	µg/kg dry wt	75	0	0.00	0.71	2.10				3	0	0.00	2.20	3.70												93879.10	
Ethylbenzene	µg/kg dry wt	75	11	0.15	0.58	1.70	0.67	2.95	13.00	3	0	0.00	1.80	3.00												395000.00	
Isopropyl ether	µg/kg dry wt	75	0	0.00	0.26	0.72				3	0	0.00	1.10	1.80													
Isopropylbenzene	µg/kg dry wt	75	18	0.24	0.69	2.00	0.94	6.72	42.00	3	0	0.00	2.10	3.60												157027.37	
m,p-Xylenes	µg/kg dry wt	75	5	0.07	1.60	4.40	2.80	13.88	42.00	3	0	0.00	4.60	7.90												270630.54	
Methyl Acetate	µg/kg dry wt	75	0	0.00	0.74	2.20				3	0	0.00	2.30	3.90												22086744.01	
Methyl tert-Butyl Ether (MTBE)	µg/kg dry wt	75	0	0.00	0.65	1.90				3	0	0.00	2.00	3.50												9165464.55	
Methylcyclohexane	µg/kg dry wt	75	8	0.11	0.72	2.10	1.30	3.65	9.80	3	0	0.00	2.20	3.80												2591055.17	
Methylene Chloride	µg/kg dry wt	75	32	0.43	0.98	2.80	1.10	8.69	40.00	3	0	0.00	7.60	14.00												9106.99	
o-Xylene	µg/kg dry wt	75	7	0.09	0.70	2.00	1.10	6.44	24.00	3	0	0.00	2.10	3.70													
Styrene	µg/kg dry wt	75	3	0.04	0.74	2.20	2.00	4.83	8.70	3	0	0.00	2.20	3.90												1700000.00	
Tetrachloroethene (PCE)	µg/kg dry wt	75	2	0.03	0.32	0.90	0.97	1.94	2.90	3	0	0.00	0.94	1.70												483.59	
Toluene	µg/kg dry wt	75	4	0.05	0.86	2.50	1.50	19.85	73.00	3	0	0.00	2.60	4.50												520000.00	
trans-1,2-Dichloroethene	µg/kg dry wt	75	0	0.00	0.74	2.20				3	0	0.00	2.20	3.90												69489.63	
trans-1,3-Dichloropropene	µg/kg dry wt	75	0	0.00	0.61	1.80				3	0	0.00	1.90	3.20													
Trichloroethene (TCE)	µg/kg dry wt	75	2	0.03	0.29	0.81	0.73	0.78	0.82	3	0	0.00	0.85	1.50												2944.10	
Trichlorofluoromethane	µg/kg dry wt	75	0	0.00	0.74	2.20				3	0	0.00	2.20	3.90												385817.90	
Vinyl Chloride	µg/kg dry wt	75	0	0.00	0.63	1.80				3	0	0.00	1.90	3.30												79.07	
PCDD/PCDF																											
1,2,3,4,6,7,8-HpCDD	ng/kg dry wt	38	38	1.00	0.04	56.94	2.10	965.95	7064.58									6	6	1.00	0.04	0.67	0.67	26.84	61.96		
1,2,3,4,6,7,8-HpCDF	ng/kg dry wt	38	38	1.00	0.03	8.22	1.10	165.01	1175.61									6	6	1.00	0.03	0.59	0.29	39.12	107.39		
1,2,3,4,7,8,9-HpCDF	ng/kg dry wt	38	32	0.84	0.04	6.44	0.06	12.74	178.67									6	2	0.33	0.04	1.00	0.34	0.63	0.93		
1,2,3,4,7,8-HxCDD	ng/kg dry wt	38	28	0.74	0.02	3.06	0.27	1.78	6.82									6	2	0.33	0.04	0.35	0.25	0.32	0.40		
1,2,3,4,7,8-HxCDF	ng/kg dry wt	38	37	0.97	0.03	3.57	0.15	16.80	248.85									6	6	1.00	0.03	0.47	0.11	0.87	1.39		
1,2,3,6,7,8-HxCDD	ng/kg dry wt	38	37	0.97	0.02	2.05	0.06	19.54	115.84									6	4	0.67	0.03	0.27	1.02	1.89	2.57		
1,2,3,6,7,8-HxCDF	ng/kg dry wt	38	36	0.95	0.03	3.02	0.04	3.52	17.64									6	6	1.00	0.03	0.41	0.06	0.55	0.99		
1,2,3,7,8,9-HxCDD	ng/kg dry wt	38	35	0.92	0.02	2.47	0.07	8.41	47.14									6	4	0.67	0.03	0.34	0.52	1.14	1.83		
1,2,3,7,8,9-HxCDF	ng/kg dry wt	38	12	0.32	0.03	3.79	0.06	0.86	4.28									6	0	0.00	0.04	0.64					
1,2,3,7,8-PeCDD	ng/kg dry wt	38	29	0.76	0.02	1.50	0.19	1.36	5.88									6	1	0.17	0.05	0.42	0.45	0.45	0.45		
1,2,3,7,8-PeCDF	ng/kg dry wt	38	32	0.84	0.01	0.67	0.04	2.14	11.90									6	0	0.00	0.05	0.29					
2,3,4,6,7,8-HxCDF	ng/kg dry wt	38	37	0.97	0.03	3.54	0.14	5.99	82.86									6	6	1.00	0.03	0.48	0.10	1.14	2.39		
2,3,4,7,8-PeCDF	ng/kg dry wt	38	37	0.97	0.01	0.67	0.03	3.17	17.86									6	3	0.50	0.04	0.28	0.33	0.46	0.65		
2,3,7,8-TCDD	ng/kg dry wt	38	28	0.74	0.02	0.73	0.20	1.52	5.21									6	0	0.00	0.06	0.41				3.90	
2,3,7,8-TCDF	ng/kg dry wt	38	32	0.84	0.05	4.80	0.30	6.24	28.65									6	1	0.17	0.07	1.56	0.58	0.58	0.58		
OCDD	ng/kg dry wt	38	38	1.00	0.05	21.67	14.80	14585.92	148508.93									6	6	1.00	0.06	1.23	4.34	206.84	505.19		
OCDF	ng/kg dry wt	38	38	1.00	0.04	16.62	1.74	780.01	7471.29									6	6	1.00	0.05	1.53	0.34	20.99	42.72		
Tetrachlorodibenzofuran	ng/kg dry wt	38	36	0.95	0.04	0.47	1.44	75.61	667.45									6	4	0.67	0.07	0.44	1.91	4.20	7.49		
TEQ_bird	ng/kg dry wt	38	38	1.00			0.09	17.59	92.39									6	6	1.00			0.03	1.17	2.26		
TEQ_mamm	ng/kg dry wt	38	38	1.00			0.10	22.66	116.07									6	6	1.00			0.04	1.35	2.81	3.90	
PETROLEUM HYDROCARBONS																											
Diesel	mg/kg dry wt	42	37	0.88	8	540	12	1925	21000																		
Gasoline	mg/kg dry wt	42	28	0.67	4	300	5	336	1600																		
Residual Range Organics (RRO)	mg/kg dry wt	42	37	0.88	5	490	62	3624	14000																		
RADIONUCLIDES																											
Gross alpha	pCi/g dry wt	15	14	0.93	6.8	11.0	8.4	13.0	18.0																		
Gross beta	pCi/g dry wt	15	15	1.00	6.8	14.0	22.7	26.1	37.0																		
Pb 210	pCi/g dry wt	15	2	0.13	0.56	1.50	0.73	0.90	1.07																		
Ra 226	pCi/g dry wt	26	17	0.65	0.05	0.95	0.30	0.48	1.18																		
Ra 228	pCi/g dry wt	26	6	0.23	0.26	3.30	0.35	0.50	0.79																		
U 234	pCi/g dry wt	15	15	1.00	0.02	0.07	0.30	0.37	0.49																		
U 235	pCi/g dry wt	15	4	0.27	0.02	0.09	0.02	0.03	0.04																		
U 238	pCi/g dry wt	15	15	1.00	0.02	0.07	0.26	0.37	0.53																		

Table 5-5. Summary Statistics for Landfill Subsurface Soil (1 ft to TD) (page 5 of 5)

Analyte	Unit	IR Site 2 Landfill								CCSP Upland								Alameda PCDD/PCDF								U.S. EPA Region 9 Residential PRG[a]	Alameda Background[b]
		Number of Samples			Nondetects		Detects			Number of Samples			Nondetects		Detects			Number of Samples			Nondetects		Detects				
		Total	Detects	Frequency of Detect (%)	Min MDL	Max MDL	Minimum Detect	Mean Detect	Maximum Detect	Total	Detects	Frequency of Detect (%)	Min MDL	Max MDL	Minimum Detect	Mean Detect	Maximum Detect	Total	Detects	Frequency of Detect (%)	Min MDL	Max MDL	Minimum Detect	Mean Detect	Maximum Detect		
EXPLOSIVES																											
1,3,5-Trinitrobenzene	mg/kg dry wt	4	0	0.00	0.06	0.10																				1833.09	
1,3-Dinitrobenzene	mg/kg dry wt	4	0	0.00	0.06	0.08																				6.11	
2,4,6-Trinitrotoluene	mg/kg dry wt	4	0	0.00	0.08	0.13																				16.21	
2,4-Dinitrotoluene	mg/kg dry wt	4	0	0.00	0.06	0.09																				122206.19	
2,6-Dinitrotoluene	mg/kg dry wt	4	0	0.00	0.10	0.15																				61103.10	
2-Amino-4,6-dinitrotoluene	mg/kg dry wt	4	0	0.00	0.09	0.15																					
2-Nitrotoluene	mg/kg dry wt	4	0	0.00	0.09	0.15																					
3-Nitrotoluene	mg/kg dry wt	4	0	0.00	0.11	0.16																				733.49	
4-Amino-2,6-dinitrotoluene	mg/kg dry wt	4	0	0.00	0.08	0.12																					
4-Nitrotoluene	mg/kg dry wt	4	0	0.00	0.12	0.18																				11.93	
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	mg/kg dry wt	4	1	0.25	0.09	0.14	0.13	0.13	0.13																	4.42	
Methyl-2,4,6-trinitrophenylnitramine (Tetryl)	mg/kg dry wt	4	0	0.00	0.08	0.13																				611.03	
Nitrobenzene	mg/kg dry wt	4	0	0.00	0.08	0.12																				19641.20	
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	mg/kg dry wt	4	2	0.50	0.07	0.11	0.14	0.26	0.38																	3055.15	
GENERAL CHEMISTRY																											
Sulfide	mg/kg dry wt	2	2	1.00	0.1	0.2	1.3	1.3	1.3																		
Solids	pct	95	95	1.00			40.9	82.5	98.7	6	6	1.00			75.2	80.1	85.2										
TOC	pct	19	19	1.00	0.02	0.02	0.1	3.1	10.7																		
Clay	pct	19	19	1.00			1.3	4.9	11.2																		
Gravel	pct	38	38	1.00			0.0	14.6	47.2																		
Sand	pct	57	57	1.00			0.2	9.1	40.6																		
Silt	pct	19	19	1.00			2.9	8.5	15.4																		

(a) U.S. EPA, 2004a. Region 9 PRGs for Residential Soil, October.
(b) TtEMI, 2001. *Summary of Background Concentrations in Soil and Groundwater, Alameda Point, California.*

Table 5-6. Soil-Gas Analytical Data for IR Site 2, Fall 2002 through Winter 2004

			Commonly Detected Aromatic Compounds							Commonly Detected Chlorinated Hydrocarbons									Remaining VOCs							
			Benzene	Toluene	Ethylbenzene	M,P-xylenes	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	Tetrachloroethene (PCE)	Trichloroethene (TCE)	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride	Acetone	Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane
		Units:	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VADOSE	MG2-01-D	2004 04 (Winter)	< 0.73	< 0.73	< 0.73	< 0.73	< 7.3	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	61.0	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 2.9
		2004 02 (Summer)	1.8	2.3	0.28	1.5	0.20 J	< 1.0	< 0.20	0.23	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 3.6	0.096 J	< 0.20	< 0.20	0.090 J	< 0.40	1.3	< 0.40
		2004 01 (Spring)	0.38	0.69	0.16 J	0.84	0.88	< 1.0	< 0.20	0.14 J	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	19.0	< 0.20	< 0.20	< 0.20	0.12 J	< 0.40	0.13 J	0.35 J
		2003 04 (Winter)	2.1	5.6	1.0	5.7	1.0	< 1.0 UJ	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	2.5 J	< 0.20	< 0.20	< 0.20	0.091 J	0.19 J	0.40	< 0.40
		2003 03 (Fall)	2.0	< 1.0	< 1.0	< 1.0	90.0	< 1.0	2.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	5.4	< 1.0
		2003 02 (Summer)	1.0	1.0	< 1.0	2.0	84.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.0	< 1.0
		2003 01 (Spring)	1.0	< 1.4	< 0.91	< 2.3	2.3 J	< 4.5	3.7	< 0.91	< 0.91	< 0.91	< 0.91	< 0.91	< 0.91	< 0.91	< 0.91	< 0.91 UJ	1.3 J	< 0.91	< 0.91	< 0.91	< 0.91	< 1.8	< 0.91	< 1.8
		2002 03 (Fall)	1.4	0.98	0.67	2.0	0.37 J	0.27 J	< 0.20	0.23	< 0.20	< 0.20	0.11 J	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	12.0	< 0.20	< 0.20	< 0.20	0.081 J	0.56	< 0.20	< 0.40
	MG2-01-S	2004 04 (Winter)	< 0.79	< 0.79	< 0.79	< 0.79	< 7.9	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	8.7	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 3.2
		2004 02 (Summer)	3.9	9.8	1.5	8.5	0.22 J	< 1.0	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	6.6	< 0.20	< 0.20	< 0.20	0.10 J	< 0.40	0.25	0.25 J
		2004 01 (Spring)	0.34	0.62	0.13 J	0.76	0.84	< 1.0	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 1.9	< 0.20	< 0.20	< 0.20	0.11 J	< 0.40	0.12 J	0.41
		2003 04 (Winter)	0.87	2.1	0.49	2.9	0.82	< 1.0 UJ	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	0.085 J	0.53 J	< 0.20	< 0.20	< 0.20	0.091 J	0.37 J	0.61	< 0.40
		2003 03 (Fall)	< 1.0	< 1.0	< 1.0	< 1.0	20.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 02 (Summer)	< 1.0	2.0	< 1.0	5.0	70.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	6.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 01 (Spring)	1.1	0.45 J	< 0.90	< 2.2	3.6 J	< 4.5	6.9	< 0.90	< 0.90	< 0.90	< 0.90	< 0.90	< 0.90	< 0.90	< 0.90	< 0.90 UJ	1.6 J	< 0.90	< 0.90	< 0.90	< 0.90	< 1.8	< 0.90	< 1.8
		2002 04 (Winter)	0.34 J	0.26 J	< 0.41	< 1.0	3.3	0.26 J	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 1.7	< 0.41	< 0.41	< 0.41	< 0.41	< 0.83	< 0.41	0.26 J
		2002 03 (Fall)	0.43	0.31	0.15 J	0.76	0.11 J	< 1.0	< 0.20	0.13 J	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	2.6	< 0.20	< 0.20	< 0.20	0.096 J	< 0.40	0.10 J	< 0.40
	MG2-02-D	2004 04 (Winter)	450	16.0	< 5.4	10.0	< 54.0	< 5.4	900	< 5.4	< 5.4	< 5.4	6.4	< 5.4	< 5.4	< 5.4	< 5.4	11.0	< 22.0	< 5.4	< 5.4	< 5.4	< 5.4	5.7	< 5.4	< 22.0
		2004 02 (Summer)	520	21.0	7.5 J	23.0	< 45.0	< 18.0	940	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 91.0	< 18.0	< 18.0	< 18.0	< 18.0	10.0 J	< 18.0	< 36.0
		2003 04 (Winter)	350	18.0	6.7	23.0	< 5.0	< 2.0	730	< 2.0	1.3 J	< 2.0	6.5	0.84 J	< 2.0	< 2.0	< 2.0	7.2	7.3 J	< 2.0	< 2.0	< 2.0	< 2.0	7.0	< 2.0	< 4.0
		2003 03 (Fall)	262	54.0	< 20.0	< 20.0	< 100	< 20.0	554	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 100	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0
		2003 02 (Summer)	313	35.0	< 29.0	< 29.0	115 J	< 29.0	679	< 29.0	< 29.0	< 29.0	< 29.0	< 29.0	< 29.0	< 29.0	< 29.0	< 29.0	< 140	< 29.0	< 29.0	< 29.0	< 29.0	< 29.0	< 29.0	< 29.0
		2003 01 (Spring)	440	29.0	6.2	26.0	3.0 J	< 5.4	640	< 5.4	< 5.4	< 5.4	3.4 J	< 5.4	< 5.4	< 5.4	< 5.4	14.0	< 27.0	< 5.4	< 5.4	< 5.4	< 5.4	< 11.0	< 5.4	< 11.0
		2002 03 (Fall)	630	27.0	12.0	67.0	4.5 J	< 6.2	1,200	< 6.2	< 6.2	< 6.2	6.2	< 6.2	< 6.2	< 6.2	< 6.2	6.5	9.1 J	< 6.2	< 6.2	< 6.2	< 6.2	17.0	< 6.2	< 12.0
	MG2-02-M	2004 04 (Winter)	460	19.0	< 5.6	15.0	< 56.0	< 5.6	800	< 5.6	< 5.6	< 5.6	< 5.6	< 5.6	< 5.6	< 5.6	< 5.6	12.0	< 22.0	< 5.6	< 5.6	< 5.6	< 5.6	6.0	< 5.6	< 22.0
		2004 02 (Summer)	430	29.0	8.2 J	36.0	< 41.0	< 17.0	890	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	40.0 J	< 17.0	< 17.0	< 17.0	< 17.0	11.0 J	< 17.0	< 33.0
		2004 01 (Spring)	490	82.0	11.0	61.0	2.4 J	< 11.0	810	< 2.2	1.0 J	< 2.2	5.0	0.79 J	< 2.2	< 2.2	< 2.2	23.0	12.0	< 2.2	< 2.2	1.0 J	< 2.2	13.0	< 2.2	< 4.3
		2003 04 (Winter)	300	21.0	6.8	27.0	2.3 J	< 2.0	630	< 2.0	0.80 J	< 2.0	4.2	0.85 J	< 2.0	< 2.0	< 2.0	6.5	50.0	< 2.0	< 2.0	< 2.0	< 2.0	8.0	< 2.0	< 4.0
		2003 03 (Fall)	301 J	55.0 J	5.6	< 4.0	< 20.0	< 4.0	797	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 20.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
		2003 02 (Summer)	378	42.0	< 22.0	< 22.0	150	< 22.0	649	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 110	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0
		2003 01 (Spring)	420	43.0	7.0	31.0	7.2 J	< 4.9	650	2.6 J	4.0 J	< 4.9	3.4 J	< 4.9	< 4.9	< 4.9	< 4.9	14.0	< 25.0	< 4.9	< 4.9	< 4.9	< 4.9	< 9.8	< 4.9	< 9.8
		2002 04 (Winter)	420	40.0	9.6	44.0	6.9	< 11.0	680	< 2.1	0.99 J	< 2.1	5.6	0.78 J	0.75 J	< 2.1	< 2.1	20.0	< 9.6	< 2.1	< 2.1	< 2.1	< 2.1	22.0	< 2.1	< 4.2
		2002 03 (Fall)	380	26.0	11.0	50.0	10.0	< 3.9	850	< 3.9	< 3.9	< 3.9	2.9 J	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	24.0	< 3.9	< 3.9	< 3.9	< 3.9	6.5 J	< 3.9	< 7.8
	MG2-02-S	2004 04 (Winter)	< 0.72	4.2	< 0.72	< 0.72	< 7.2	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	3.6	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 2.9
		2004 02 (Summer)	4.3	1.5 J	< 1.9	5.7	1.5 J	< 9.4	48.0	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	10.0	< 1.9	< 1.9	< 1.9	< 1.9	< 3.8	1.1 J	< 3.8
		2004 01 (Spring)	18.0	13.0	2.1	7.5	0.51	< 1.0	21.0	0.46	0.23	< 0.20	0.44	0.087 J	0.46	< 0.20	< 0.20	3.3	150	< 0.20	< 0.20	< 0.20	< 0.20	1.5	< 0.20	0.59
		2003 04 (Winter)	3.5	0.74 J	< 2.0	< 2.0	0.55 J	< 2.0	23.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	4.8 J	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	2.6	< 4.0
		2003 03 (Fall)	8.9 J	< 4.0	< 4.0	< 4.0	43.0	< 4.0	78.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 20.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0

Table 5-6. Soil-Gas Analytical Data for IR Site 2, Fall 2002 through Winter 2004 (page 2 of 6)

			Commonly Detected Aromatic Compounds							Commonly Detected Chlorinated Hydrocarbons									Remaining VOCs							
			Benzene	Toluene	Ethylbenzene	M,P-xylenes	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	Tetrachloroethene (PCE)	Trichloroethene (TCE)	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride	Acetone	Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane
		Units:	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Well Number	Event	AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VADOSE	MG2-02-S	2003 02 (Summer)	< 4.0	< 4.0	< 4.0	< 4.0	215	< 4.0	6.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 21.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
		2003 01 (Spring)	3.5	0.56 J	< 0.96	1.5 J	5.4 J	< 4.8	< 0.96	< 0.96	< 0.96	< 0.96	< 0.96	< 0.96	< 0.96	< 0.96	< 0.96	0.38 J	5.6	< 0.96	< 0.96	< 0.96	< 0.96	< 1.9	0.31 J	< 1.9
		2002 04 (Winter)	8.5	2.2	0.60 J	3.0	3.3	< 5.2	5.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.5	17.0	< 1.0	< 1.0	< 1.0	< 1.0	2.3	0.71 J	< 2.1
		2002 03 (Fall)	74.0	6.0	2.9	10.0	1.3 J	< 2.0	150	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	6.4 J	< 2.0	< 2.0	< 2.0	< 2.0	1.3 J	< 2.0	< 4.0
	MG2-03-D	2004 04 (Winter)	1.2	28.0	0.87	1.5	< 8.0	< 0.80	3.8	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	32.0	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 3.2
		2004 02 (Summer)	3.7	5.8	2.7	6.6	2.2 J	< 9.3	35.0	< 1.9	< 1.9	< 1.9	0.60 J	< 1.9	0.60 J	< 1.9	< 1.9	< 1.9	12.0	< 1.9	< 1.9	< 1.9	< 1.9	< 3.7	< 1.9	< 3.7
		2004 01 (Spring)	6.3	3.6	1.6 J	2.8	1.7 J	< 2.0	13.0	< 2.0	0.93 J	< 2.0	< 2.0	< 2.0	0.69 J	< 2.0	< 2.0	< 2.0	5.7 J	< 2.0	< 2.0	< 2.0 UJ	< 2.0	< 4.0	< 2.0	< 4.0
		2003 04 (Winter)	4.5	2.6	1.5 J	4.0	1.3 J	< 2.0	18.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	6.5 J	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 4.0
		2003 03 (Fall)	< 4.0	< 4.0	< 4.0	< 4.0	< 20.0	< 4.0	43.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 20.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
		2003 02 (Summer)	< 31.0	< 31.0	< 31.0	< 31.0	163	< 31.0	82.0	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	< 150	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0
		2003 01 (Spring)	2.6 J	4.3 J	1.8 J	3.0 J	180	< 5.4	17.0	< 5.4	< 5.4	< 5.4	< 5.4	< 5.4	< 5.4	< 5.4	< 5.4	< 5.4	7.3 J	< 5.4	< 5.4	< 5.4	< 5.4	< 11.0	< 5.4	< 11.0
		2002 04 (Winter)	12.0	6.6	2.8	6.1	4.3	< 8.5	23.0	< 1.7	< 1.7	< 1.7	0.83 J	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 6.8	< 1.7	< 1.7	< 1.7	< 1.7	< 3.4	< 1.7	< 3.4
		2002 03 (Fall)	3.2 J	4.7	5.0	4.9	4.3 J	0.96 J	15.0	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	7.2 J	< 3.6	< 3.6	< 3.6	< 3.6	< 7.2	< 3.6	< 7.2
	MG2-03-M	2004 04 (Winter)	< 0.79	< 0.79	< 0.79	< 0.79	< 7.9	< 0.79	< 0.79	3.8	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	3.1	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	3.8	< 3.2
		2004 02 (Summer)	1.6	1.3 J	0.47 J	3.7	3.1	< 4.7	10.0	2.9	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	6.2	< 0.95	< 0.95	< 0.95	< 0.95	< 1.9	0.59 J	0.83 J
		2004 01 (Spring)	2.8	4.8	1.3 J	< 2.0	1.1 J	< 2.0	3.4	2.3	0.84 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	7.9 J	< 2.0	< 2.0	< 2.0 UJ	< 2.0	< 4.0	< 2.0	< 4.0
		2003 04 (Winter)	0.82 J	0.63 J	< 2.0	< 2.0	0.96 J	< 2.0	6.2	1.9 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	4.8 J	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 4.0
		2003 03 (Fall)	< 4.0	< 4.0	< 4.0	< 4.0	21.0	< 4.0	17.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 20.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
		2003 02 (Summer)	< 29.0	< 29.0	< 29.0	< 29.0	174	< 29.0	130	< 29.0	< 29.0	< 29.0	< 29.0	< 29.0	< 29.0	< 29.0	< 29.0	< 29.0	< 140	< 29.0	< 29.0	< 29.0	< 29.0	< 29.0	< 29.0	< 29.0
		2003 01 (Spring)	< 2.0	1.2 J	0.59 J	1.1 J	190	< 2.0	2.9	2.3	1.0 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	12.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 4.0
		2002 04 (Winter)	2.0	3.6	0.85	1.4	2.9	< 2.9	6.6	4.1	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57	0.43 J	16.0	< 0.57	< 0.57	< 0.57	< 0.57	< 1.1	< 0.57	< 1.1
		2002 03 (Fall)	< 2.0	0.92 J	1.2 J	0.99 J	0.89 J	< 2.0	3.3	4.5	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	9.5 J	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 4.0
	MG2-03-S	2004 04 (Winter)	6.0	< 0.78	1.7	6.5	< 7.8	< 0.78	< 0.78	1.4	< 0.78	< 0.78	< 0.78	< 0.78	< 0.78	< 0.78	< 0.78	< 0.78	10.0	< 0.78	< 0.78	< 0.78	< 0.78	< 0.78	< 0.78	< 3.1
		2004 02 (Summer)	2.0	0.99	0.40 J	2.6	1.6	< 2.4	5.7	2.5	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	10.0	< 0.49	< 0.49	< 0.49	< 0.49	< 0.98	0.44 J	0.36 J
		2004 01 (Spring)	2.1	3.3	0.78	1.5	1.2	< 1.0	2.7	1.6	0.46	< 0.20	0.11 J	< 0.20	< 0.20	< 0.20	< 0.20	0.33	3.8	< 0.20	< 0.20	< 0.20	0.096 J	0.39 J	0.81	0.24 J
		2003 04 (Winter)	0.80 J	< 2.0	< 2.0	< 2.0	0.65 J	< 2.0	4.4	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	4.9 J	< 2.0	< 2.0	< 2.0	< 2.0 UJ	< 4.0	< 2.0	< 4.0
		2003 03 (Fall)	< 4.0	< 4.0	< 4.0	< 4.0	38.0	< 4.0	11.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 20.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
		2003 02 (Summer)	< 21.0	< 21.0	< 21.0	< 21.0	99.0 J	< 21.0	229	< 21.0	< 21.0	< 21.0	< 21.0	< 21.0	< 21.0	< 21.0	< 21.0	< 21.0	< 110	< 21.0	< 21.0	< 21.0	< 21.0	< 21.0	< 21.0	< 21.0
		2003 01 (Spring)	< 2.0	< 2.0	< 2.0	< 2.0	240	< 2.0	2.8	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	3.4 J	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 4.0
		2002 04 (Winter)	0.84	1.8	0.22	0.95	3.7	0.15 J	4.8	1.0	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	0.12 J	1.5	< 0.20	< 0.20	< 0.20	< 0.20	< 0.40	< 0.20	0.15 J
		2002 03 (Fall)	0.42	0.39	0.15 J	0.91	2.6 J	< 1.0	5.0	1.5	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	3.4	< 0.20	< 0.20	< 0.20	0.095 J	< 0.40	0.27	0.36 J
	MG2-04-D	2004 04 (Winter)	14.0	10.0	6.0	18.0	220	< 1.6	420	< 1.6	< 1.6	< 1.6	2.3	< 1.6	< 1.6	< 1.6	< 1.6	4.3	11.0	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 6.2
		2004 02 (Summer)	18.0	41.0	60.0	170	1,900	< 7.8	640	< 7.8	< 7.8	< 7.8	< 7.8	< 7.8	< 7.8	< 7.8	< 7.8	< 7.8	9.9 J	< 7.8	< 7.8	< 7.8	< 7.8	< 16.0	< 7.8	< 16.0
		2003 04 (Winter)	14.0	29.0	42.0	120	1,800	< 2.0	450	< 2.0	< 2.0	< 2.0	2.5	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	9.5 J	< 2.0	< 2.0	< 2.0	< 2.0 UJ	< 4.0	< 2.0	< 4.0
		2003 03 (Fall)	26.0	87.0	47.0 J	122 J	< 20.0	< 4.0	473 J	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 20.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
		2003 02 (Summer)	< 42.0	76.0	77.0	226	141 J	< 42.0	551	< 42.0	< 42.0	< 42.0	< 42.0	< 42.0	< 42.0	< 42.0	< 42.0	< 42.0	< 210	< 42.0	< 42.0	< 42.0	< 42.0	< 42.0	< 42.0	< 42.0
		2003 01 (Spring)	16.0	67.0	97.0	260	5,000	< 5.3	470	< 5.3	< 5.3	< 5.3	< 5.3	< 5.3	< 5.3	< 5.3	< 5.3	< 5.3	23.0 J	< 5.3	< 5.3	< 5.3	< 5.3	< 11.0	< 5.3	< 11.0
		2002 03 (Fall)	33.0	480	480	1,200	6,400 J	< 18.0	800	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	95.0	< 18.0	< 18.0	< 18.0	< 18.0	< 36.0	< 18.0	< 36.0

Table 5-6. Soil-Gas Analytical Data for IR Site 2, Fall 2002 through Winter 2004 (page 3 of 6)

			Commonly Detected Aromatic Compounds							Commonly Detected Chlorinated Hydrocarbons									Remaining VOCs							
			Benzene	Toluene	Ethylbenzene	M,P-xylenes	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	Tetrachloroethene (PCE)	Trichloroethene (TCE)	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride	Acetone	Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane
		Units:	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event / AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VADOSE	MG2-04-M	2004 04 (Winter)	< 0.68	< 0.68	< 0.68	< 0.68	< 6.8	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	5.4	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	0.76	< 2.7
		2004 02 (Summer)	17.0	19.0	14.0	49.0	720	< 6.6	610	< 6.6	< 6.6	< 6.6	3.0 J	< 6.6	< 6.6	< 6.6	< 6.6	< 6.6	21.0 J	< 6.6	< 6.6	< 6.6	< 6.6	< 13.0	< 6.6	< 13.0
		2004 01 (Spring)	22.0	17.0	9.2	41.0	< 4.8	< 9.7	400	< 1.9	< 1.9	< 1.9	2.7	< 1.9	< 1.9	< 1.9	< 1.9	3.7	6.7 J	< 1.9	< 1.9	< 1.9	< 1.9	< 3.9	< 1.9	< 3.9
		2003 04 (Winter)	15.0	12.0	11.0	45.0	510	< 2.0	420	< 2.0	< 2.0	< 2.0	2.4	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	22.0	< 2.0	< 2.0	< 2.0	< 2.0 UJ	< 4.0	< 2.0	< 4.0
		2003 03 (Fall)	27.0 J	27.0 J	11.0	37.0	< 20.0	< 4.0	481	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 20.0 J	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
		2003 02 (Summer)	< 25.0	30.0	< 25.0	48.0	107 J	< 25.0	583	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 125	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0
		2003 01 (Spring)	20.0	24.0	21.0	65.0	1,300	< 7.3	460	< 7.3	< 7.3	< 7.3	< 7.3	< 7.3	< 7.3	< 7.3	< 7.3	< 7.3	7.8 J	< 7.3	< 7.3	< 7.3	< 7.3	< 15.0	< 7.3	< 15.0
		2002 04 (Winter)	29.0	12.0	16.0	64.0	670	< 6.7	490	< 6.7	< 6.7	< 6.7	< 6.7	< 6.7	< 6.7	< 6.7	< 6.7	< 6.7	< 34.0	< 6.7	< 6.7	< 6.7	< 6.7	< 13.0	< 6.7	< 13.0 UJ
		2002 03 (Fall)	24.0	91.0	74.0	190	3,900	< 18.0	610	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	29.0 J	< 18.0	< 18.0	< 18.0	< 18.0	< 36.0	< 18.0	< 36.0
	MG2-04-S	2004 04 (Winter)	< 26.0	41.0	56.0	100	4,500	< 26.0	570	< 26.0	< 26.0	< 26.0	< 26.0	< 26.0	< 26.0	< 26.0	< 26.0	< 26.0	< 100	< 26.0	< 26.0	< 26.0	< 26.0	< 26.0	< 26.0	< 100
		2004 02 (Summer)	5.3	6.6	3.1	13.0	190	< 4.9	36.0	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	9.6	< 0.98	< 0.98	< 0.98	< 0.98	< 2.0	< 0.98	2.4
		2004 01 (Spring)	1.3	1.8	0.72	2.9	6.7	< 1.0	9.7	0.27	0.094 J	< 0.20	0.11 J	< 0.20	< 0.20	< 0.20	< 0.20	0.22	12.0	< 0.20	< 0.20	< 0.20	< 0.20	< 0.40	0.42	1.4
		2003 04 (Winter)	< 2.0	2.1	1.1 J	5.0	350	< 2.0	23.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	6.9 J	< 2.0	< 2.0	< 2.0	< 2.0 UJ	< 4.0	< 2.0	< 4.0
		2003 03 (Fall)	< 40.0	< 40.0	< 40.0	< 40.0	883	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 200	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0
		2003 02 (Summer)	< 25.0	< 25.0	< 25.0	< 25.0	120 J	< 25.0	26.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 125	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0
		2003 01 (Spring)	1.1	< 1.5	< 1.0	< 2.6	4.3 J	< 5.1	6.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	2.8 J	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 2.0 UJ	< 1.0	< 2.0
		2002 04 (Winter)	2.7	4.4	0.74 J	3.7	3.3	0.51 J	7.9	< 0.93	< 0.93	< 0.93	< 0.93	< 0.93	< 0.93	< 0.93	< 0.93	< 0.93	3.8	< 0.93	< 0.93	< 0.93	< 0.93	< 1.9	< 0.93	< 1.9
		2002 03 (Fall)	< 2.0	0.80 J	< 2.0	< 2.0	18.0 J	< 2.0	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	3.8 J	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 4.0
	MG2-05-D	2004 04 (Winter)	< 0.68	< 0.68	< 0.68	< 0.68	26.0	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 2.7	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 2.7
		2004 02 (Summer)	16.0	3.1	1.5 J	6.2	300	< 10.0	180	1.3 J	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	17.0	< 2.1	< 2.1	< 2.1	< 2.1	< 4.2	< 2.1	< 4.2
		2003 04 (Winter)	< 2.0	2.3	0.72 J	3.2	110	< 2.0	3.2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	9.8 J	< 2.0	< 2.0	< 2.0	< 2.0 UJ	< 4.0	< 2.0	< 4.0
		2003 03 (Fall)	< 40.0	< 40.0	< 40.0	< 40.0	510	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 200	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0
		2003 02 (Summer)	< 22.0	< 22.0	< 22.0	< 22.0	447	< 22.0	56.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 110	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0
		2003 01 (Spring)	4.3	< 2.0	< 2.0	< 2.0	140	< 2.0	29.0	0.61 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	2.4 J	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 4.0
		2002 03 (Fall)	36.0	< 7.2	2.6 J	5.0 J	1,100	< 7.2	830	< 7.2	< 7.2	< 7.2	< 7.2	< 7.2	< 7.2	< 7.2	< 7.2	< 7.2	< 36.0	< 7.2	< 7.2	< 7.2	< 7.2	< 14.0	< 7.2	< 14.0
	MG2-05-S	2004 04 (Winter)	< 0.74	< 0.74	< 0.74	< 0.74	< 7.4	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	6.8	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 3.0
		2004 02 (Summer)	3.4	0.61 J	< 2.0	< 2.0	380	< 2.0	16.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	9.5 J	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 4.0
		2004 01 (Spring)	0.61	0.67	0.14 J	0.92	7.5	< 1.0	1.3	0.14 J	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	9.0	< 0.20	< 0.20	< 0.20	0.13 J	< 0.40	0.078 J	0.83
		2003 04 (Winter)	< 2.0	1.1 J	< 2.0	< 2.0	80.0	< 2.0	1.6 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	3.4 J	< 2.0	< 2.0	< 2.0	< 2.0 UJ	< 4.0	< 2.0	< 4.0
		2003 03 (Fall)	< 40.0	< 40.0	< 40.0	< 40.0	839	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 200	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0
		2003 02 (Summer)	< 24.0	< 24.0	< 24.0	55.0	398	< 24.0	126	< 24.0	< 24.0	< 24.0	< 24.0	< 24.0	< 24.0	< 24.0	< 24.0	< 24.0	< 120	< 24.0	< 24.0	< 24.0	< 24.0	< 24.0	< 24.0	< 24.0
		2003 01 (Spring)	< 2.0	< 2.0	< 2.0	< 2.0	170	< 2.0	2.2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	5.7 J	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	1.4 J
		2002 04 (Winter)	0.36 J	1.8	0.38 J	2.1	50.0	< 2.2	5.8	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	3.6	< 0.43	< 0.43	< 0.43	< 0.43	< 0.86	0.46	< 0.86
		2002 03 (Fall)	< 3.5	1.5 J	1.9 J	6.2	1,100	< 3.5	6.8	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5	6.3 J	< 3.5	< 3.5	< 3.5	< 3.5	< 7.0	< 3.5	< 7.0

Table 5-6. Soil-Gas Analytical Data for IR Site 2, Fall 2002 through Winter 2004 (page 4 of 6)

			Remaining VOCs												
			Dibromochloromethane	Isopropylbenzene (Cumene)	Methylene Chloride	Styrene	Vinyl Acetate	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,2-Dichloropropane	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone (MIBK)	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene
		Units:	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Well Number	Event	AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VADOSE	MG2-01-D	2004 04 (Winter)	< 0.73	-	< 0.73	< 0.73		< 0.73	< 0.73	< 0.73	< 0.73	< 2.9	< 0.73	< 0.73	< 0.73
		2004 02 (Summer)	< 0.20	< 0.40	< 0.20	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	0.77 J	< 0.40	< 0.40	< 0.20	< 0.20
		2004 01 (Spring)	< 0.20	0.23 J	0.25	0.063 J	< 1.0	< 0.20	< 0.20	< 0.20	5.6	< 0.40	0.27 J	< 0.20	< 0.20
		2003 04 (Winter)	< 0.20	< 0.40	0.099 J	0.35 J	< 1.0	< 0.20	< 0.20	< 0.20	0.60 J	< 0.40	< 0.40	< 0.20	< 0.20
		2003 03 (Fall)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0
		2003 02 (Summer)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0
		2003 01 (Spring)	< 0.91	0.73 J	< 0.91	< 0.91	< 4.5	< 0.91	< 0.91	< 0.91	< 4.5	< 1.8	< 1.8	< 0.91	< 0.91
		2002 03 (Fall)	< 0.20	2.2	0.16 J	< 0.20	< 1.0 UJ	< 0.20 UJ	< 0.20	< 0.20	1.1	< 0.40	< 0.40	< 0.20	< 0.20
	MG2-01-S	2004 04 (Winter)	< 0.79	-	< 0.79	< 0.79		< 0.79	< 0.79	< 0.79	< 0.79	< 3.2	< 0.79	< 0.79	< 0.79
		2004 02 (Summer)	< 0.20	0.051 J	< 0.20	0.25 J	< 1.0	< 0.20	< 0.20	< 0.20	1.0	< 0.40	< 0.40	< 0.20	< 0.20
		2004 01 (Spring)	< 0.20	0.30 J	0.25	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	0.38 J	< 0.40	< 0.40	< 0.20	< 0.20
		2003 04 (Winter)	< 0.20	< 0.40	< 0.20	0.15 J	< 1.0	< 0.20	< 0.20	< 0.20	< 1.0	< 0.40	< 0.40	< 0.20	< 0.20
		2003 03 (Fall)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0
		2003 02 (Summer)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 6.0	< 6.0	< 6.0	< 1.0	< 1.0
		2003 01 (Spring)	< 0.90	0.73 J	< 0.90	< 0.90	< 4.5	< 0.90	< 0.90	< 0.90	< 4.5	< 1.8	< 1.8	< 0.90	< 0.90
		2002 04 (Winter)	< 0.41	0.17 J	< 0.41	< 0.41	< 2.1	< 0.41	< 0.41	< 0.41	< 2.1	< 0.83 UJ	< 0.83	< 0.41	< 0.41
		2002 03 (Fall)	< 0.20	0.56	0.13 J	< 0.20	< 1.0 UJ	< 0.20 UJ	< 0.20	< 0.20	0.38 J	< 0.40	< 0.40	< 0.20	< 0.20
	MG2-02-D	2004 04 (Winter)	< 5.4	-	< 5.4	< 5.4		< 5.4	< 5.4	< 5.4	< 5.4	< 22.0	< 5.4	< 5.4	< 5.4
		2004 02 (Summer)	< 18.0	64.0	< 18.0	< 18.0	< 91.0	< 18.0	< 18.0	< 18.0	< 91.0	< 91.0	< 91.0	< 18.0	< 18.0
		2003 04 (Winter)	< 2.0	59.0	1.8 J	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0
		2003 03 (Fall)	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 100	< 100	< 100	< 20.0	< 20.0
		2003 02 (Summer)	< 29.0	59.0	< 29.0	< 29.0	< 29.0 UJ	< 29.0	< 29.0	< 29.0	< 140	< 140	< 140	< 29.0	< 29.0
		2003 01 (Spring)	< 5.4	47.0	< 5.4	< 5.4	< 27.0	< 5.4	< 5.4	< 5.4	< 27.0	< 27.0	< 27.0	< 5.4	< 5.4
		2002 03 (Fall)	< 6.2	81.0	< 6.2	< 6.2	< 31.0	< 6.2	< 6.2	< 6.2	< 31.0	< 31.0	< 31.0	< 6.2	< 6.2
	MG2-02-M	2004 04 (Winter)	< 5.6	-	< 5.6	< 5.6		< 5.6	< 5.6	< 5.6	< 5.6	< 22.0	< 5.6	< 5.6	< 5.6
		2004 02 (Summer)	< 17.0	74.0	< 17.0	< 17.0	< 83.0	< 17.0	< 17.0	< 17.0	< 83.0	< 83.0	< 83.0	< 17.0	< 17.0
		2004 01 (Spring)	< 2.2	77.0	2.0 J	< 2.2	< 11.0	< 2.2	< 2.2	< 2.2	< 11.0	< 4.3	< 4.3	< 2.2	< 2.2
		2003 04 (Winter)	< 2.0	59.0	2.3	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	12.0	< 10.0	< 10.0	< 2.0	< 2.0
		2003 03 (Fall)	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 20.0	< 20.0	< 20.0	< 4.0	< 4.0
		2003 02 (Summer)	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0 UJ	< 22.0	< 22.0	< 22.0	< 110	< 110	< 110	< 22.0	< 22.0
		2003 01 (Spring)	< 4.9	59.0	< 4.9	< 4.9	< 25.0	< 4.9	< 4.9	< 4.9	< 25.0	< 25.0	< 25.0	< 4.9	< 4.9
		2002 04 (Winter)	< 2.1	93.0 J	3.7	< 2.1	< 11.0	< 2.1	< 2.1	< 2.1	< 11.0	< 4.2 UJ	< 4.2	< 2.1	< 2.1
		2002 03 (Fall)	< 3.9	64.0	< 3.9	1.3 J	< 20.0	< 3.9	< 3.9	< 3.9	4.8 J	< 20.0	< 20.0	< 3.9	< 3.9
	MG2-02-S	2004 04 (Winter)	< 0.72	-	< 0.72	< 0.72		< 0.72	< 0.72	< 0.72	< 0.72	< 2.9	< 0.72	< 0.72	< 0.72
		2004 02 (Summer)	< 1.9	5.7	< 1.9	< 1.9	< 9.4	< 1.9	< 1.9	< 1.9	< 9.4	< 3.8	< 3.8	< 1.9	< 1.9
		2004 01 (Spring)	< 0.20	5.2	< 0.20	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	9.1	< 0.40	< 0.40	< 0.20	< 0.20
		2003 04 (Winter)	< 2.0	3.4	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0
		2003 03 (Fall)	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 20.0	< 20.0	< 20.0	< 4.0	< 4.0

Table 5-6. Soil-Gas Analytical Data for IR Site 2, Fall 2002 through Winter 2004 (page 5 of 6)

			Remaining VOCs												
			Dibromochloromethane	Isopropylbenzene (Cumene)	Methylene Chloride	Styrene	Vinyl Acetate	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,2-Dichloropropane	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone (MIBK)	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene
		Units:	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VADOSE	MG2-02-S	2003 02 (Summer)	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0 UJ	< 4.0	< 4.0	< 4.0	< 21.0	< 21.0	< 21.0	< 4.0	< 4.0
		2003 01 (Spring)	< 0.96	1.4 J	< 0.96	< 0.96	< 4.8	< 0.96	< 0.96	< 0.96	< 4.8	< 1.9	< 1.9	< 0.96	< 0.96
		2002 04 (Winter)	< 1.0	3.0	4.8	< 1.0	< 5.2	< 1.0	< 1.0	< 1.0	1.6 J	< 2.1	< 2.1	< 1.0	< 1.0
		2002 03 (Fall)	< 2.0	13.0	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0
	MG2-03-D	2004 04 (Winter)	< 0.80	-	< 0.80	< 0.80		< 0.80	< 0.80	< 0.80	< 0.80	< 3.2	< 0.80	< 0.80	< 0.80
		2004 02 (Summer)	< 1.9	12.0	< 1.9	< 1.9	< 9.3	< 1.9	< 1.9	< 1.9	< 9.3	< 3.7	< 3.7	< 1.9	< 1.9
		2004 01 (Spring)	< 2.0	6.4	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0
		2003 04 (Winter)	< 2.0	8.0	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0
		2003 03 (Fall)	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 20.0	< 20.0	< 20.0	< 4.0	< 4.0
		2003 02 (Summer)	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0 UJ	< 31.0	< 31.0	< 31.0	< 150	< 150	< 150	< 31.0	< 31.0
		2003 01 (Spring)	< 5.4	8.7	< 5.4	< 5.4	< 27.0	< 5.4	< 5.4	< 5.4	< 27.0	< 27.0 •	< 27.0	< 5.4	< 5.4
		2002 04 (Winter)	< 1.7	15.0	< 1.7	1.3 J	< 8.5	< 1.7	< 1.7	< 1.7	< 8.5	< 3.4 UJ	< 3.4	< 1.7	< 1.7
		2002 03 (Fall)	< 3.6	< 3.6	< 3.6	3.1 J	< 18.0	< 3.6	< 3.6	< 3.6	< 18.0	< 18.0	< 18.0	< 3.6	< 3.6
	MG2-03-M	2004 04 (Winter)	< 0.79	-	< 0.79	< 0.79		< 0.79	< 0.79	< 0.79	< 0.79	< 3.2	< 0.79	< 0.79	< 0.79
		2004 02 (Summer)	< 0.95	2.2	< 0.95	< 0.95	< 4.7	< 0.95	< 0.95	< 0.95	< 4.7	< 1.9	< 1.9	< 0.95	< 0.95
		2004 01 (Spring)	< 2.0	1.4 J	< 2.0	0.60 J	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0
		2003 04 (Winter)	< 2.0	1.7 J	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0
		2003 03 (Fall)	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 20.0	< 20.0	< 20.0	< 4.0	< 4.0
		2003 02 (Summer)	< 29.0	< 29.0	< 29.0	< 29.0	< 29.0 UJ	< 29.0	< 29.0	< 29.0	< 140	< 140	< 140	< 29.0	< 29.0
		2003 01 (Spring)	< 2.0	0.71 J	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	5.0 J	< 10.0	< 10.0	< 2.0	< 2.0
		2002 04 (Winter)	< 0.57	1.9	0.29 J	0.69	< 2.9	< 0.57	< 0.57	< 0.57	0.94 J	< 1.1 UJ	< 1.1	< 0.57	< 0.57
		2002 03 (Fall)	< 2.0	< 2.0	< 2.0	0.58 J	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0
	MG2-03-S	2004 04 (Winter)	< 0.78	-	< 0.78	< 0.78		< 0.78	< 0.78	< 0.78	< 0.78	< 3.1	< 0.78	< 0.78	< 0.78
		2004 02 (Summer)	< 0.49	1.5	< 0.49	< 0.49	< 2.4	< 0.49	< 0.49	< 0.49	1.4 J	< 0.98	< 0.98	< 0.49	< 0.49
		2004 01 (Spring)	< 0.20	1.4	< 0.20	0.38	< 1.0	< 0.20	< 0.20	< 0.20	0.55 J	< 0.40	< 0.40	< 0.20	< 0.20
		2003 04 (Winter)	< 2.0	1.2 J	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0
		2003 03 (Fall)	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 20.0	< 20.0	< 20.0	< 4.0	< 4.0
		2003 02 (Summer)	< 21.0	22.0	< 21.0	< 21.0	< 21.0 UJ	< 21.0	< 21.0	< 21.0	< 110	< 110	< 110	< 21.0	< 21.0
		2003 01 (Spring)	< 2.0	< 2.0	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0
		2002 04 (Winter)	< 0.20	0.77	< 0.20	0.12 J	< 1.0	< 0.20	< 0.20	< 0.20	0.26 J	< 0.40	< 0.40	< 0.20	< 0.20
		2002 03 (Fall)	< 0.20	0.77	< 0.20	< 0.20	< 1.0 UJ	< 0.20 UJ	< 0.20	< 0.20	0.40 J	< 0.40	< 0.40	< 0.20	< 0.20
	MG2-04-D	2004 04 (Winter)	< 1.6	-	< 1.6	< 1.6		< 1.6	< 1.6	< 1.6	< 1.6	< 6.2	< 1.6	< 1.6	< 1.6
		2004 02 (Summer)	< 7.8	46.0	< 7.8	< 7.8	< 39.0	< 7.8	< 7.8	< 7.8	< 39.0	< 39.0	< 39.0	< 7.8	< 7.8
		2003 04 (Winter)	< 2.0	39.0	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0
		2003 03 (Fall)	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 20.0	< 20.0	< 20.0	< 4.0	< 4.0
		2003 02 (Summer)	< 42.0	43.0	< 42.0	< 42.0	< 42.0 UJ	< 42.0	< 42.0	< 42.0	< 210	< 210	< 210	< 42.0	< 42.0
		2003 01 (Spring)	< 5.3	63.0	< 5.3	20.0	< 26.0	< 5.3	< 5.3	< 5.3	6.3 J	< 26.0	< 26.0	< 5.3	< 5.3
		2002 03 (Fall)	< 18.0	< 18.0	< 18.0	83.0	< 91.0	< 18.0	< 18.0	< 18.0	35.0 J	< 91.0	< 91.0	< 18.0	< 18.0

Table 5-6. Soil-Gas Analytical Data for IR Site 2, Fall 2002 through Winter 2004 (page 6 of 6)

			Remaining VOCs												
			Dibromochloromethane	Isopropylbenzene (Cumene)	Methylene Chloride	Styrene	Vinyl Acetate	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,2-Dichloropropane	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone (MIBK)	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene
		Units:	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VADOSE	MG2-04-M	2004 04 (Winter)	< 0.68	-	< 0.68	< 0.68		< 0.68	< 0.68	< 0.68	< 0.68	< 2.7	< 0.68	< 0.68	< 0.68
		2004 02 (Summer)	< 6.6	30.0	< 6.6	< 6.6	< 33.0	< 6.6	< 6.6	< 6.6	< 33.0	< 33.0	< 33.0	< 6.6	< 6.6
		2004 01 (Spring)	< 1.9	17.0	< 1.9	< 1.9	< 9.7	< 1.9	< 1.9	< 1.9	< 9.7	< 3.9	< 3.9	< 1.9	< 1.9
		2003 04 (Winter)	< 2.0	28.0	1.2 J	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	5.1 J	< 10.0	< 10.0	< 2.0	< 2.0
		2003 03 (Fall)	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 20.0	< 20.0	< 20.0	< 4.0	< 4.0
		2003 02 (Summer)	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0 UJ	< 25.0	< 25.0	< 25.0	< 125	< 125	< 125	< 25.0	< 25.0
		2003 01 (Spring)	< 7.3	30.0	< 7.3	< 7.3	< 37.0	< 7.3	< 7.3	< 7.3	< 37.0	< 37.0	< 37.0	< 7.3	< 7.3
		2002 04 (Winter)	< 6.7	24.0	< 6.7	< 6.7	< 34.0	< 6.7	< 6.7	< 6.7	< 34.0	< 34.0	< 34.0	< 6.7	< 6.7
		2002 03 (Fall)	< 18.0	< 18.0	< 18.0	8.1 J	< 90.0	< 18.0	< 18.0	< 18.0	< 90.0	< 90.0	< 90.0	< 18.0	< 18.0
	MG2-04-S	2004 04 (Winter)	< 26.0	-	< 26.0	< 26.0		< 26.0	< 26.0	< 26.0	< 26.0	< 100	< 26.0	< 26.0	< 26.0
		2004 02 (Summer)	< 0.98	4.3	< 0.98	0.42 J	< 4.9	< 0.98	< 0.98	< 0.98	1.0 J	< 2.0	< 2.0	< 0.98	< 0.98
		2004 01 (Spring)	< 0.20	1.4	< 0.20	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	2.2	< 0.40	< 0.40	< 0.20	< 0.20
		2003 04 (Winter)	< 2.0	2.9	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	3.7 J	< 10.0	< 10.0	< 2.0	< 2.0
		2003 03 (Fall)	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 200	< 200	< 200	< 40.0	< 40.0
		2003 02 (Summer)	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0 UJ	< 25.0	< 25.0	< 25.0	< 125	< 125	< 125	< 25.0	< 25.0
		2003 01 (Spring)	< 1.0	0.53 J	< 1.0	< 1.0	< 5.1	< 1.0	< 1.0	< 1.0	< 5.1	< 2.0	< 2.0	< 1.0	< 1.0
		2002 04 (Winter)	< 0.93	1.5 J	< 0.93	0.32 J	< 4.6	< 0.93	< 0.93	< 0.93	< 4.6	< 1.9	< 1.9	< 0.93	< 0.93
		2002 03 (Fall)	< 2.0	< 2.0	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0
	MG2-05-D	2004 04 (Winter)	< 0.68	-	5.6	< 0.68		< 0.68	< 0.68	< 0.68	< 0.68	< 2.7	< 0.68	< 0.68	< 0.68
		2004 02 (Summer)	< 2.1	2.6 J	< 2.1	< 2.1	< 10.0	< 2.1	< 2.1	< 2.1	5.0 J	< 4.2	< 4.2	< 2.1	< 2.1
		2003 04 (Winter)	< 2.0	0.77 J	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	3.3 J	< 10.0	< 10.0	< 2.0	< 2.0
		2003 03 (Fall)	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 200	< 200	< 200	< 40.0	< 40.0
		2003 02 (Summer)	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0 UJ	< 22.0	< 22.0	< 22.0	< 110	< 110	< 110	< 22.0	< 22.0
		2003 01 (Spring)	< 2.0	0.67 J	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0
		2002 03 (Fall)	< 7.2	5.8 J	< 7.2	< 7.2	< 36.0	< 7.2	< 7.2	< 7.2	< 36.0	< 36.0	< 36.0	< 7.2	< 7.2
	MG2-05-S	2004 04 (Winter)	< 0.74	-	< 0.74	< 0.74		< 0.74	< 0.74	< 0.74	< 0.74	< 3.0	< 0.74	< 0.74	< 0.74
		2004 02 (Summer)	< 2.0	0.71 J	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0
		2004 01 (Spring)	< 0.20	0.35 J	0.20	0.28	< 1.0	< 0.20	< 0.20	< 0.20	2.6	< 0.40	< 0.40	< 0.20	< 0.20
		2003 04 (Winter)	< 2.0	< 2.0	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0
		2003 03 (Fall)	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 200	< 200	< 200	< 40.0	< 40.0
		2003 02 (Summer)	< 24.0	< 24.0	< 24.0	< 24.0	< 24.0 UJ	< 24.0	< 24.0	< 24.0	< 120	< 120	< 120	< 24.0	< 24.0
		2003 01 (Spring)	< 2.0	0.54 J	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0
		2002 04 (Winter)	< 0.43	0.64 J	0.47	< 0.43	< 2.2	< 0.43	< 0.43	< 0.43	0.60 J	< 0.86	< 0.86	< 0.43	< 0.43
		2002 03 (Fall)	< 3.5	< 3.5	< 3.5	< 3.5	< 18.0	< 3.5	< 3.5	< 3.5	< 18.0	< 18.0	< 18.0	< 3.5	< 3.5

Source: ITSI, 2005.

Table 5-7. Summary Statistics for Landfill Groundwater

Analyte	Zone	Fraction	Unit	Number of Samples			Nondetects		Detects			U.S. EPA Region 9 Tap Water PRG[a]	AWQC Acute[b]	AWQC Chronic[b]	Alameda Background Metals in FWBZ Groundwater[c]
				Total	Detects	Frequency of Detect (%)	Min MDL	Max MDL	Minimum Detect	Mean Detect	Maximum Detect				
METALS															
Aluminum	FWBZ	Total	µg/L	26	26	0.00	0.6	50	0.6	686	6270	36499			96.2
	FWBZ	Dissolved	µg/L	14	2	0.14	40	50	46	46	46	36499			96.2
	SWBZ	Total	µg/L	10	10	1.00	0.6	0.6	0.6	4	9	36499			
Antimony	FWBZ	Total	µg/L	26	17	0.00	0.07	0.12	0.14	2.79	21.00	14.60			11.8
	FWBZ	Dissolved	µg/L	14	3	0.21	0.12	0.12	1.40	1.62	1.78	14.60			11.8
	SWBZ	Total	µg/L	10	9	0.90	0.07	0.07	0.09	0.54	1.40	14.60			
Arsenic	FWBZ	Total	µg/L	26	26	1.00	0.02	0.79	0.36	6.64	**38.80**	0.04	69	36	8
	FWBZ	Dissolved	µg/L	14	14	1.00	0.02	0.50	0.21	1.18	6.17	0.04	69	36	8
	SWBZ	Total	µg/L	10	8	0.80	0.79	0.79	5.00	8.88	12.00	0.04	69	36	
Barium	FWBZ	Total	µg/L	26	26	1.00	0.2	7	9	486	1310	2555			123.3
	FWBZ	Dissolved	µg/L	14	14	1.00	0.6	0.6	11	500	1070	2555			123.3
	SWBZ	Total	µg/L	10	10	1.00	0.2	7	34	189	850	2555			
Beryllium	FWBZ	Total	µg/L	26	14	0.54	0.001	0.140	0.004	0.033	0.218	73.000			1
	FWBZ	Dissolved	µg/L	14	4	0.29	0.001	0.140	0.002	0.011	0.037	73.000			1
	SWBZ	Total	µg/L	10	0	0.00	0.140	0.140				73.000			
Cadmium	FWBZ	Total	µg/L	26	14	0.54	0.003	0.200	0.020	1.442	3.960	18.250	42	9.3	1.3
	FWBZ	Dissolved	µg/L	14	12	0.86	0.003	0.140	0.013	0.259	1.050	18.250	42	9.3	1.3
	SWBZ	Total	µg/L	10	1	0.10	0.200	0.200	0.830	0.830	0.830	18.250	42	9.3	
Chromium	FWBZ	Total	µg/L	26	16	0.62	0.04	3.0	0.5	6.7	30.1				3.4
	FWBZ	Dissolved	µg/L	14	3	0.21	2.0	3.0	3.6	5.2	7.6				3.4
	SWBZ	Total	µg/L	10	10	1.00	0.04	0.04	0.7	1.5	2.7				
Cobalt	FWBZ	Total	µg/L	26	15	0.58	0.1	4.0	0.2	3.2	8.3	730.0			4.6
	FWBZ	Dissolved	µg/L	14	3	0.21	2.0	4.0	2.9	4.5	5.5	730.0			4.6
	SWBZ	Total	µg/L	10	10	1.00	0.1	0.1	0.4	5.4	13.0	730.0			
Copper	FWBZ	Total	µg/L	26	26	1.00	0.01	7.00	0.85	**10.15**	**72.55**	1460.00	4.8	3.1	7.5
	FWBZ	Dissolved	µg/L	14	14	1.00	0.01	7.00	0.18	**3.62**	**37.00**	1460.00	4.8	3.1	7.5
	SWBZ	Total	µg/L	10	10	1.00	0.28	0.28	1.30	**3.23**	**5.20**	1460.00	4.8	3.1	
Hexavalent Chromium	FWBZ	Total	mg/L	7	6	0.86	0.007	0.007	0.011	0.017	0.031	0.109	1.1	0.05	0.1006
	FWBZ	Dissolved	mg/L	7	1	0.14	0.007	0.007	0.007	0.007	0.007	0.109	1.1	0.05	0.1006
Iron	FWBZ	Total	µg/L	26	26	1.00	4	2500	36	12395	25000	10950			1624
	FWBZ	Dissolved	µg/L	14	13	0.93	4	20	46	125	233	10950			1624
	SWBZ	Total	µg/L	10	10	1.00	7	500	1800	5170	12000	10950			
Lead	FWBZ	Total	µg/L	26	26	1.00	0.01	0.18	0.15	20.09	**200.00**		210	8.1	1.3
	FWBZ	Dissolved	µg/L	14	12	0.86	0.01	0.18	0.03	0.84	**8.82**		210	8.1	1.3
	SWBZ	Total	µg/L	10	10	1.00	0.05	0.05	0.06	0.29	0.54		210	8.1	
Magnesium	FWBZ	Total	µg/L	26	26	1.00	3	7600	2700	191740	860000				103358
	FWBZ	Dissolved	µg/L	14	14	1.00	3	8	9300	127007	385000				103358
	SWBZ	Total	µg/L	10	10	1.00	470	7600	260000	906000	15 00000				
Manganese	FWBZ	Total	µg/L	26	26	1.00	0.1	29	2	926	8800	876			1171
	FWBZ	Dissolved	µg/L	14	14	1.00	0.2	0.7	63	586	1190	876			1171
	SWBZ	Total	µg/L	10	10	1.00	0.1	150	63	6721	16000	876			
Mercury	FWBZ	Total	µg/L	26	5	0.19	0.04	0.10	0.1	0.2	0.3		1.8	0.94	0.1
	FWBZ	Dissolved	µg/L	14	0	0.00	0.04	0.10					1.8	0.94	0.1
	SWBZ	Total	µg/L	10	0	0.00	0.05	0.05					1.8	0.94	
Molybdenum	FWBZ	Total	µg/L	26	12	0.46	0.2	8.0	0.4	2.5	6.2	182.5			5.6
	FWBZ	Dissolved	µg/L	14	2	0.14	3.0	8.0	3.4	4.7	5.9	182.5			5.6
	SWBZ	Total	µg/L	10	9	0.90	0.2	0.2	0.2	1.4	3.1	182.5			
Nickel	FWBZ	Total	µg/L	26	26	1.00	0.02	3.0	0.8	**8.9**	**43.3**	730.0	74	8.2	7.4
	FWBZ	Dissolved	µg/L	14	14	1.00	0.02	3.0	0.9	5.8	**21.9**	730.0	74	8.2	7.4
	SWBZ	Total	µg/L	10	10	1.00	0.1	0.1	1.9	**10.1**	**23.0**	730.0	74	8.2	
Selenium	FWBZ	Total	µg/L	26	7	0.27	0.3	0.6	1.1	11.8	22.0	182.5	290	71	1.9
	FWBZ	Dissolved	µg/L	14	0	0.00	0.3	0.3				182.5	290	71	1.9
	SWBZ	Total	µg/L	10	5	0.50	0.6	0.6	10.0	17.0	22.0	182.5	290	71	

Table 5-7. Summary Statistics for Landfill Groundwater (page 2 of 11)

Analyte	Zone	Fraction	Unit	Number of Samples			Nondetects		Detects			U.S. EPA Region 9 Tap Water PRG[a]	AWQC Acute[b]	AWQC Chronic[b]	Alameda Background Metals in FWBZ Groundwater[c]
				Total	Detects	Frequency of Detect (%)	Min MDL	Max MDL	Minimum Detect	Mean Detect	Maximum Detect				
Silver	FWBZ	Total	µg/L	26	14	0.54	0.006	0.160	0.009	0.193	0.720	182.500	1.9		1.6
	FWBZ	Dissolved	µg/L	14	0	0.00	0.006	0.040				182.500	1.9		1.6
	SWBZ	Total	µg/L	10	0	0.00	0.160	0.160				182.500	1.9		
Sodium	FWBZ	Total	mg/L	12	12	1.00	0.1	21	12	2417	7500				937369
	SWBZ	Total	mg/L	10	10	1.00	2.1	8	1300	4760	8300				
Thallium	FWBZ	Total	µg/L	26	10	0.38	0.001	0.170	0.001	0.028	0.240	2.409			2.3
	FWBZ	Dissolved	µg/L	14	5	0.36	0.001	0.060	0.001	0.010	0.041	2.409			2.3
	SWBZ	Total	µg/L	10	1	0.10	0.170	0.170	0.620	0.620	0.620	2.409			
Vanadium	FWBZ	Total	µg/L	26	14	0.54	0.4	6.0	0.8	6.3	23.4	36.5			8.4
	FWBZ	Dissolved	µg/L	14	0	0.00	2.0	6.0				36.5			8.4
	SWBZ	Total	µg/L	10	10	1.00	0.4	0.4	0.9	3.1	8.6	36.5			
Zinc	FWBZ	Total	µg/L	26	26	1.00	0.02	3.0	2.4	36.9	190.5	10949.9	90	81	10.5
	FWBZ	Dissolved	µg/L	14	14	1.00	0.02	3.0	0.8	13.4	45.7	10949.9	90	81	10.5
	SWBZ	Total	µg/L	10	10	1.00	0.2	0.2	7.8	16.6	23.0	10949.9	90	81	
SVOCs/PAHs															
1,1'-Byphenyl	FWBZ	Total	µg/L	13	5	0.38	0.08	0.24	0.11	0.49	1.50				
	FWBZ	Dissolved	µg/L	13	2	0.15	0.07	0.42	0.40	0.75	1.10				
1,2,4,5-Tetrachlorobenzene	FWBZ	Total	µg/L	13	0	0.00	0.12	0.36				10.95			
	FWBZ	Dissolved	µg/L	13	0	0.00	0.12	0.64				10.95			
1,4-Dioxane	FWBZ	Total	µg/L	14	13	0.93	0.47	0.47	0.58	9.14	53.00				
	FWBZ	Dissolved	µg/L	13	13	1.00	0.47	0.47	0.57	9.62	56.00				
1-Methylnaphthalene	FWBZ	Total	µg/L	12	12	1.00	5.00	5.90	76.86	95.36	123.50				
	SWBZ	Total	µg/L	10	10	1.00	5.10	5.20	82.61	88.99	105.10				
2,4,5-Trichlorophenol	FWBZ	Total	µg/L	25	0	0.00	0.05	2.00				3649.99			
	FWBZ	Dissolved	µg/L	13	0	0.00	0.05	0.28				3649.99			
	SWBZ	Total	µg/L	10	0	0.00	1.00	1.90				3649.99			
2,4,6-Trichlorophenol	FWBZ	Total	µg/L	25	0	0.00	0.08	2.00				3.65			
	FWBZ	Dissolved	µg/L	13	1	0.08	0.07	0.41	0.11	0.11	0.11	3.65			
	SWBZ	Total	µg/L	10	0	0.00	1.00	1.90				3.65			
2,4-Dichlorophenol	FWBZ	Total	µg/L	25	2	0.08	0.05	1.80	0.09	0.27	0.45	109.50			
	FWBZ	Dissolved	µg/L	13	1	0.08	0.05	0.27	0.26	0.26	0.26	109.50			
	SWBZ	Total	µg/L	10	0	0.00	0.40	1.90				109.50			
2,4-Dimethylphenol	FWBZ	Total	µg/L	25	1	0.04	0.67	2.30	3.50	3.50	3.50	730.00			
	FWBZ	Dissolved	µg/L	13	0	0.00	0.64	3.60				730.00			
	SWBZ	Total	µg/L	10	0	0.00	0.97	2.20				730.00			
2,4-Dinitrophenol	FWBZ	Total	µg/L	25	0	0.00	0.43	3.40				73.00			
	FWBZ	Dissolved	µg/L	13	0	0.00	1.10	5.90				73.00			
	SWBZ	Total	µg/L	10	0	0.00	0.42	1.40				73.00			
2-Chloronaphthalene	FWBZ	Total	µg/L	25	0	0.00	0.03	0.83				486.67			
	FWBZ	Dissolved	µg/L	13	0	0.00	0.03	0.17				486.67			
	SWBZ	Total	µg/L	10	0	0.00	0.35	0.80				486.67			
2-Chlorophenol	FWBZ	Total	µg/L	25	9	0.36	0.03	1.70	0.24	0.42	1.10	30.42			
	FWBZ	Dissolved	µg/L	13	5	0.38	0.03	0.17	0.22	0.29	0.36	30.42			
	SWBZ	Total	µg/L	10	0	0.00	0.63	1.60				30.42			
2-Methyl-4,6-dinitrophenol	FWBZ	Total	µg/L	25	0	0.00	0.03	1.90							
	FWBZ	Dissolved	µg/L	13	0	0.00	0.03	0.15							
	SWBZ	Total	µg/L	10	0	0.00	1.10	2.00							
2-Methylnaphthalene	FWBZ	Total	µg/L	25	15	0.60	0.01	2.00	0.05	8.92	110.00				
	FWBZ	Dissolved	µg/L	13	13	1.00	0.01	0.54	0.05	8.68	100.00				
	SWBZ	Total	µg/L	10	0	0.00	0.63	1.90							
2-Methylphenol	FWBZ	Total	µg/L	25	3	0.12	0.13	2.20	0.39	0.62	0.96	1825.00			
	FWBZ	Dissolved	µg/L	13	3	0.23	0.12	0.66	0.55	1.08	1.60	1825.00			
	SWBZ	Total	µg/L	10	0	0.00	0.98	2.10				1825.00			
2-Nitroaniline	FWBZ	Total	µg/L	25	0	0.00	0.03	2.10				109.50			
	FWBZ	Dissolved	µg/L	13	0	0.00	0.03	0.17				109.50			
	SWBZ	Total	µg/L	10	0	0.00	0.74	2.00				109.50			

Table 5-7. Summary Statistics for Landfill Groundwater (page 3 of 11)

Analyte	Zone	Fraction	Unit	Number of Samples			Nondetects		Detects			U.S. EPA Region 9 Tap Water PRG[a]	AWQC Acute[b]	AWQC Chronic[b]	Alameda Background Metals in FWBZ Groundwater[c]
				Total	Detects	Frequency of Detect (%)	Min MDL	Max MDL	Minimum Detect	Mean Detect	Maximum Detect				
2-Nitrophenol	FWBZ	Total	µg/L	25	0	0.00	0.03	2.00							
	FWBZ	Dissolved	µg/L	13	0	0.00	0.03	0.15							
	SWBZ	Total	µg/L	10	0	0.00	0.86	2.00							
3,3'-Dichlorobenzidine	FWBZ	Total	µg/L	25	0	0.00	0.31	2.70				0.15			
	FWBZ	Dissolved	µg/L	13	0	0.00	0.86	4.80				0.15			
	SWBZ	Total	µg/L	10	0	0.00	0.31	0.55				0.15			
3-Nitroaniline	FWBZ	Total	µg/L	25	0	0.00	0.38	1.50				3.20			
	FWBZ	Dissolved	µg/L	13	0	0.00	0.46	2.60				3.20			
	SWBZ	Total	µg/L	10	0	0.00	0.37	1.50				3.20			
4-Bromophenyl Phenyl Ether	FWBZ	Total	µg/L	25	0	0.00	0.04	0.92							
	FWBZ	Dissolved	µg/L	13	0	0.00	0.04	0.20							
	SWBZ	Total	µg/L	10	0	0.00	0.46	0.89							
4-Chloro-3-methylphenol	FWBZ	Total	µg/L	25	0	0.00	0.06	2.00							
	FWBZ	Dissolved	µg/L	13	0	0.00	0.06	0.33							
	SWBZ	Total	µg/L	10	0	0.00	0.57	1.90							
4-Chloroaniline	FWBZ	Total	µg/L	25	0	0.00	0.04	3.00				146.00			
	FWBZ	Dissolved	µg/L	13	0	0.00	0.04	0.20				146.00			
	SWBZ	Total	µg/L	10	0	0.00	2.00	3.10				146.00			
4-Chlorophenyl Phenyl Ether	FWBZ	Total	µg/L	25	0	0.00	0.02	0.78							
	FWBZ	Dissolved	µg/L	13	0	0.00	0.02	0.09							
	SWBZ	Total	µg/L	10	0	0.00	0.53	0.78							
4-Methylphenol	FWBZ	Total	µg/L	25	8	0.32	0.11	2.00	0.32	3.88	15.00	182.50			
	FWBZ	Dissolved	µg/L	13	7	0.54	0.11	0.57	0.29	2.31	9.30	182.50			
	SWBZ	Total	µg/L	10	0	0.00	0.55	1.90				182.50			
4-Nitroaniline	FWBZ	Total	µg/L	25	0	0.00	0.35	1.70				3.20			
	FWBZ	Dissolved	µg/L	13	0	0.00	0.33	1.90				3.20			
	SWBZ	Total	µg/L	10	0	0.00	0.96	1.70				3.20			
4-Nitrophenol	FWBZ	Total	µg/L	25	0	0.00	1.20	3.40							
	FWBZ	Dissolved	µg/L	13	0	0.00	1.10	6.00							
	SWBZ	Total	µg/L	10	0	0.00	1.30	1.90							
Acenaphthene	FWBZ	Total	µg/L	25	16	0.64	0.01	1.10	0.15	20.04	98.00	365.00			
	FWBZ	Dissolved	µg/L	13	13	1.00	0.01	0.40	0.16	20.01	88.00	365.00			
	SWBZ	Total	µg/L	10	0	0.00	0.92	0.95				365.00			
Acenaphthylene	FWBZ	Total	µg/L	25	12	0.48	0.01	0.30	0.04	0.23	1.00				
	FWBZ	Dissolved	µg/L	13	13	1.00	0.01	0.02	0.02	0.21	0.89				
	SWBZ	Total	µg/L	10	0	0.00	0.26	0.26							
Acetophenone	FWBZ	Total	µg/L	13	0	0.00	0.34	1.00							
	FWBZ	Dissolved	µg/L	13	1	0.08	0.32	1.80	0.93	0.93	0.93				
Anthracene	FWBZ	Total	µg/L	25	18	0.72	0.00	0.01	0.08	0.68	3.10	1825.00			
	FWBZ	Dissolved	µg/L	13	13	1.00	0.00	0.00	0.12	0.78	3.30	1825.00			
	SWBZ	Total	µg/L	10	0	0.00	0.01	0.01				1825.00			
Atrazine	FWBZ	Total	µg/L	13	0	0.00	0.12	0.34				0.30			
	FWBZ	Dissolved	µg/L	13	0	0.00	0.11	0.59				0.30			
Benzaldehyde	FWBZ	Total	µg/L	13	11	0.85	0.10	0.29	0.85	1.26	1.70	3649.99			
	FWBZ	Dissolved	µg/L	13	10	0.77	0.09	0.52	0.65	1.03	1.50	3649.99			
Benzo(a)anthracene	FWBZ	Total	µg/L	25	11	0.44	0.01	0.01	0.03	0.11	0.41	0.09			
	FWBZ	Dissolved	µg/L	13	5	0.38	0.01	0.01	0.03	0.06	0.10	0.09			
	SWBZ	Total	µg/L	10	0	0.00	0.01	0.01				0.09			
Benzo(a)pyrene	FWBZ	Total	µg/L	25	6	0.24	0.01	0.01	0.03	0.07	0.13	0.01			
	FWBZ	Dissolved	µg/L	13	0	0.00	0.01	0.01				0.01			
	SWBZ	Total	µg/L	10	0	0.00	0.01	0.01				0.01			
Benzo(b)fluoranthene	FWBZ	Total	µg/L	25	5	0.20	0.01	0.03	0.04	0.09	0.15	0.09			
	FWBZ	Dissolved	µg/L	13	0	0.00	0.01	0.01				0.09			
	SWBZ	Total	µg/L	10	0	0.00	0.02	0.02				0.09			
Benzo(g,h,i)perylene	FWBZ	Total	µg/L	25	5	0.20	0.02	0.02	0.02	0.06	0.16				
	FWBZ	Dissolved	µg/L	13	0	0.00	0.02	0.02							
	SWBZ	Total	µg/L	10	0	0.00	0.02	0.02							

Table 5-7. Summary Statistics for Landfill Groundwater (page 4 of 11)

Analyte	Zone	Fraction	Unit	Number of Samples			Nondetects		Detects			U.S. EPA Region 9 Tap Water PRG[a]	AWQC Acute[b]	AWQC Chronic[b]	Alameda Background Metals in FWBZ Groundwater[c]
				Total	Detects	Frequency of Detect (%)	Min MDL	Max MDL	Minimum Detect	Mean Detect	Maximum Detect				
Benzo(k)fluoranthene	FWBZ	Total	µg/L	25	2	0.08	0.01	0.01	0.09	0.10	0.11	0.92			
	FWBZ	Dissolved	µg/L	13	0	0.00	0.01	0.01				0.92			
	SWBZ	Total	µg/L	10	0	0.00	0.01	0.01				0.92			
Benzoic Acid	FWBZ	Total	µg/L	12	5	0.42	0.05	0.54	11.00	13.00	20.00				
	SWBZ	Total	µg/L	10	0	0.00	0.05	0.54							
Bis(2-chloroethoxy)methane	FWBZ	Total	µg/L	25	0	0.00	0.02	0.89							
	FWBZ	Dissolved	µg/L	13	0	0.00	0.02	0.13							
	SWBZ	Total	µg/L	10	0	0.00	0.50	0.93							
Bis(2-chloroethyl) Ether	FWBZ	Total	µg/L	25	0	0.00	0.03	1.40				0.01			
	FWBZ	Dissolved	µg/L	13	0	0.00	0.03	0.16				0.01			
	SWBZ	Total	µg/L	10	0	0.00	0.45	1.30				0.01			
Bis(2-ethylhexyl) Phthalate	FWBZ	Total	µg/L	25	9	0.36	0.57	3.00	0.78	2.19	7.30	4.80			
	FWBZ	Dissolved	µg/L	13	0	0.00	0.54	3.00				4.80			
	SWBZ	Total	µg/L	10	2	0.20	1.10	3.00	1.30	1.30	1.30	4.80			
Bis(chloroisopropyl) Ether	FWBZ	Total	µg/L	25	0	0.00	0.04	1.20				0.27			
	FWBZ	Dissolved	µg/L	13	0	0.00	0.03	0.19				0.27			
	SWBZ	Total	µg/L	10	0	0.00	0.51	1.10				0.27			
Butyl Benzyl Phthalate	FWBZ	Total	µg/L	25	1	0.04	0.05	0.76	0.59	0.59	0.59	7299.95			
	FWBZ	Dissolved	µg/L	13	1	0.08	0.05	0.29	0.32	0.32	0.32	7299.95			
	SWBZ	Total	µg/L	10	0	0.00	0.49	0.80				7299.95			
Caprolactam	FWBZ	Total	µg/L	13	1	0.08	0.47	1.40	9.70	9.70	9.70	18249.67			
	FWBZ	Dissolved	µg/L	13	0	0.00	0.44	2.50				18249.67			
Carbazole	FWBZ	Total	µg/L	13	6	0.46	0.03	0.08	0.09	2.38	12.00	3.36			
	FWBZ	Dissolved	µg/L	13	4	0.31	0.03	0.14	0.28	2.89	9.90	3.36			
Chrysene	FWBZ	Total	µg/L	25	13	0.52	0.01	0.02	0.04	0.09	0.28	9.21			
	FWBZ	Dissolved	µg/L	13	5	0.38	0.01	0.01	0.03	0.05	0.06	9.21			
	SWBZ	Total	µg/L	10	0	0.00	0.01	0.01				9.21			
Dibenz(a,h)anthracene	FWBZ	Total	µg/L	25	0	0.00	0.01	0.17				0.01			
	FWBZ	Dissolved	µg/L	13	0	0.00	0.01	0.01				0.01			
	SWBZ	Total	µg/L	10	0	0.00	0.05	0.05				0.01			
Dibenzofuran	FWBZ	Total	µg/L	25	16	0.64	0.03	1.50	0.06	8.87	52.00	12.17			
	FWBZ	Dissolved	µg/L	13	13	1.00	0.03	1.50	0.06	9.52	48.00	12.17			
	SWBZ	Total	µg/L	10	0	0.00	1.10	1.40				12.17			
Diethyl Phthalate	FWBZ	Total	µg/L	25	0	0.00	0.06	0.85				29199.15			
	FWBZ	Dissolved	µg/L	13	1	0.08	0.05	0.29	0.39	0.39	0.39	29199.15			
	SWBZ	Total	µg/L	10	0	0.00	0.31	0.83				29199.15			
Dimethyl Phthalate	FWBZ	Total	µg/L	25	0	0.00	0.03	0.84				364866.82			
	FWBZ	Dissolved	µg/L	13	0	0.00	0.03	0.14				364866.82			
	SWBZ	Total	µg/L	10	0	0.00	0.40	0.85				364866.82			
Di-*n*-butyl Phthalate	FWBZ	Total	µg/L	25	0	0.00	0.06	0.80				3649.99			
	FWBZ	Dissolved	µg/L	13	0	0.00	0.05	0.30				3649.99			
	SWBZ	Total	µg/L	10	0	0.00	0.36	0.77				3649.99			
Di-*n*-octyl Phthalate	FWBZ	Total	µg/L	25	0	0.00	0.07	0.62				1460.00			
	FWBZ	Dissolved	µg/L	13	0	0.00	0.06	0.36				1460.00			
	SWBZ	Total	µg/L	10	0	0.00	0.13	0.65				1460.00			
Fluoranthene	FWBZ	Total	µg/L	25	18	0.72	0.01	0.03	0.05	1.36	7.60	1460.00			
	FWBZ	Dissolved	µg/L	13	13	1.00	0.01	0.01	0.04	1.17	5.50	1460.00			
	SWBZ	Total	µg/L	10	0	0.00	0.03	0.03				1460.00			
Fluorene	FWBZ	Total	µg/L	25	17	0.68	0.01	0.52	0.10	7.62	52.00	243.33			
	FWBZ	Dissolved	µg/L	13	13	1.00	0.01	0.52	0.13	8.80	47.00	243.33			
	SWBZ	Total	µg/L	10	0	0.00	0.12	0.12				243.33			
Hexachlorobenzene	FWBZ	Total	µg/L	25	0	0.00	0.03	0.93				0.04			
	FWBZ	Dissolved	µg/L	13	0	0.00	0.03	0.16				0.04			
	SWBZ	Total	µg/L	10	0	0.00	0.46	0.89				0.04			
Hexachlorobutadiene	FWBZ	Total	µg/L	25	0	0.00	0.04	0.76				0.86			
	FWBZ	Dissolved	µg/L	13	0	0.00	0.04	0.22				0.86			
	SWBZ	Total	µg/L	10	0	0.00	0.56	0.76				0.86			

Table 5-7. Summary Statistics for Landfill Groundwater (page 5 of 11)

Analyte	Zone	Fraction	Unit	Number of Samples			Nondetects		Detects			U.S. EPA Region 9 Tap Water PRG[a]	AWQC Acute[b]	AWQC Chronic[b]	Alameda Background Metals in FWBZ Groundwater[c]
				Total	Detects	Frequency of Detect (%)	Min MDL	Max MDL	Minimum Detect	Mean Detect	Maximum Detect				
Hexachlorocyclopentadiene	FWBZ	Total	µg/L	25	0	0.00	0.09	0.75				219.00			
	FWBZ	Dissolved	µg/L	13	0	0.00	0.08	0.46				219.00			
	SWBZ	Total	µg/L	10	0	0.00	0.24	0.74				219.00			
Hexachloroethane	FWBZ	Total	µg/L	25	0	0.00	0.04	0.78				4.80			
	FWBZ	Dissolved	µg/L	13	0	0.00	0.04	0.21				4.80			
	SWBZ	Total	µg/L	10	0	0.00	0.40	0.76				4.80			
Indeno(1,2,3-cd)pyrene	FWBZ	Total	µg/L	25	4	0.16	0.01	0.01	0.01	0.05	0.11	0.09			
	FWBZ	Dissolved	µg/L	13	0	0.00	0.01	0.01				0.09			
	SWBZ	Total	µg/L	10	0	0.00	0.01	0.01				0.09			
Isophorone	FWBZ	Total	µg/L	25	1	0.04	0.02	0.89	0.50	0.50	0.50	70.77			
	FWBZ	Dissolved	µg/L	13	5	0.38	0.02	0.09	0.43	0.54	0.84	70.77			
	SWBZ	Total	µg/L	10	0	0.00	0.46	0.85				70.77			
Naphthalene	FWBZ	Total	µg/L	25	17	0.68	0.01	0.64	0.07	11.34	140.00	6.20			
	FWBZ	Dissolved	µg/L	13	13	1.00	0.01	0.64	0.03	10.41	120.00	6.20			
	SWBZ	Total	µg/L	10	0	0.00	0.28	0.29				6.20			
N-Nitroso m	FWBZ	Total	µg/L	12	0	0.00	0.67	0.94							
	SWBZ	Total	µg/L	10	0	0.00	0.66	0.94							
N-Nitrosodi-*n*-propylamine	FWBZ	Total	µg/L	25	0	0.00	0.07	1.30				0.01			
	FWBZ	Dissolved	µg/L	13	0	0.00	0.07	0.36				0.01			
	SWBZ	Total	µg/L	10	0	0.00	0.58	1.20				0.01			
N-Nitrosodiphenylamine	FWBZ	Total	µg/L	25	14	0.56	0.06	0.77	0.73	2.30	13.00	13.72			
	FWBZ	Dissolved	µg/L	13	11	0.85	0.06	0.31	0.30	2.47	14.00	13.72			
	SWBZ	Total	µg/L	10	0	0.00	0.28	0.81				13.72			
Pentachlorophenol	FWBZ	Total	µg/L	25	0	0.00	0.06	1.80				0.56			
	FWBZ	Dissolved	µg/L	13	0	0.00	0.06	0.32				0.56			
	SWBZ	Total	µg/L	10	0	0.00	0.44	1.90				0.56			
Phenanthrene	FWBZ	Total	µg/L	25	17	0.68	0.01	0.64	0.03	5.58	58.00				
	FWBZ	Dissolved	µg/L	13	13	1.00	0.01	0.64	0.04	6.02	50.00				
	SWBZ	Total	µg/L	10	0	0.00	0.02	0.02							
Phenol	FWBZ	Total	µg/L	25	2	0.08	0.04	2.20	2.40	8.20	14.00	10949.88			
	FWBZ	Dissolved	µg/L	13	2	0.15	0.04	0.22	1.50	2.75	4.00	10949.88			
	SWBZ	Total	µg/L	10	0	0.00	0.39	2.10				10949.88			
Pyrene	FWBZ	Total	µg/L	25	18	0.72	0.01	0.01	0.05	0.76	4.30	182.50			
	FWBZ	Dissolved	µg/L	13	13	1.00	0.01	0.01	0.04	0.59	2.80	182.50			
	SWBZ	Total	µg/L	10	0	0.00	0.01	0.01				182.50			
PCBs															
Aroclor 1016	FWBZ	Total	NG/L	26	0	0.00	60.00	167.03				960.00		30	
	FWBZ	Dissolved	NG/L	14	0	0.00	84.79	177.70				960.00		30	
Aroclor 1221	FWBZ	Total	NG/L	26	0	0.00	83.94	1658.75						30	
	FWBZ	Dissolved	NG/L	14	0	0.00	84.79	177.70						30	
Aroclor 1232	FWBZ	Total	NG/L	26	1	0.04	83.94	1657.11	11696.55	**11696.55**	**11696.55**			30	
	FWBZ	Dissolved	NG/L	14	0	0.00	84.79	177.70						30	
Aroclor 1242	FWBZ	Total	NG/L	26	0	0.00	51.00	1650.48						30	
	FWBZ	Dissolved	NG/L	14	0	0.00	84.79	177.70						30	
Aroclor 1248	FWBZ	Total	NG/L	26	0	0.00	83.94	1653.80						30	
	FWBZ	Dissolved	NG/L	14	0	0.00	84.79	177.70						30	
Aroclor 1254	FWBZ	Total	NG/L	26	0	0.00	83.94	1655.43				34.00		30	
	FWBZ	Dissolved	NG/L	14	0	0.00	84.79	177.70				34.00		30	
Aroclor 1260	FWBZ	Total	NG/L	26	1	0.04	59.00	167.03	310.20	**310.20**	**310.20**			30	
	FWBZ	Dissolved	NG/L	14	0	0.00	84.79	177.70						30	
Total PCBs (NOAA)	FWBZ	Total	NG/L	14	11	0.79	1.68	3.22	287.84	**967.92**	**1962.96**	34.00		30	
	FWBZ	Dissolved	NG/L	14	10	0.71	1.69	3.22	77.36	**354.45**	**821.44**	34.00		30	
Total PCBs (AROCLOR)	FWBZ	Total	NG/L	26	2	0.08	83.94	440.00	310.20	**6003.38**	**11696.55**	34.00		30	
	FWBZ	Dissolved	NG/L	14	0	0.00	84.79	177.70				34.00		30	

Table 5-7. Summary Statistics for Landfill Groundwater (page 6 of 11)

Analyte	Zone	Fraction	Unit	Number of Samples			Nondetects		Detects			U.S. EPA Region 9 Tap Water PRG[a]	AWQC Acute[b]	AWQC Chronic[b]	Alameda Background Metals in FWBZ Groundwater[c]
				Total	Detects	Frequency of Detect (%)	Min MDL	Max MDL	Minimum Detect	Mean Detect	Maximum Detect				
PESTICIDES															
2,4,5,6-Tetrachloro-*m*-xylene	FWBZ	Total	µg/L	12	12	1.00	0.01	0.01	0.25	1.38	12.15				
2,4-DDD	FWBZ	Total	NG/L	14	3	0.21	1.61	3.26	14.93	18.78	22.42				
	FWBZ	Dissolved	NG/L	14	1	0.07	1.65	3.46	17.58	17.58	17.58				
2,4-DDE	FWBZ	Total	NG/L	14	0	0.00	1.36	2.75							
	FWBZ	Dissolved	NG/L	14	0	0.00	1.40	2.92							
2,4-DDT	FWBZ	Total	NG/L	14	0	0.00	0.96	1.94							
	FWBZ	Dissolved	NG/L	14	0	0.00	0.98	2.06							
4,4-DDD	FWBZ	Total	NG/L	26	7	0.27	1.88	20.00	4.29	19.51	60.00	280.13			
	FWBZ	Dissolved	NG/L	14	2	0.14	1.93	4.04	1.84	4.33	6.81	280.13			
4,4-DDE	FWBZ	Total	NG/L	26	4	0.15	1.36	10.00	5.95	11.49	20.00	197.74			
	FWBZ	Dissolved	NG/L	14	0	0.00	1.39	2.91				197.74			
4,4-DDT	FWBZ	Total	NG/L	26	2	0.08	1.17	50.00	30.00	**35.00**	**40.00**	197.74	130	1	
	FWBZ	Dissolved	NG/L	14	0	0.00	1.20	2.51				197.74	130	1	
Total DDDs	FWBZ	Total	NG/L	26	8	0.31					60.00				
	FWBZ	Dissolved	NG/L	14	3	0.21					17.58				
Total DDEs	FWBZ	Total	NG/L	26	4	0.15					20.00				
	FWBZ	Dissolved	NG/L	14	0	0.00					2.92				
Total DDTs	FWBZ	Total	NG/L	26	2	0.08					50.00				
	FWBZ	Dissolved	NG/L	14	0	0.00					2.51				
Total DDx	FWBZ	Total	NG/L	26	11	0.42					100.00				
	FWBZ	Dissolved	NG/L	14	3	0.21					17.58				
alpha-Chlordane	FWBZ	Total	NG/L	26	2	0.08	0.75	8.00	8.00	**10.24**	**12.48**		90	4	
	FWBZ	Dissolved	NG/L	14	0	0.00	0.77	1.61					90	4	
a-BHC	FWBZ	Total	NG/L	26	3	0.12	0.68	10.00	20.00	23.33	30.00	10.67			
	FWBZ	Dissolved	NG/L	14	0	0.00	0.70	1.46				10.67			
Aldrin	FWBZ	Total	NG/L	26	5	0.19	0.78	8.00	7.74	15.52	30.00	3.95	1300		
	FWBZ	Dissolved	NG/L	14	2	0.14	0.80	1.68	5.77	7.22	8.66	3.95	1300		
beta-BHC	FWBZ	Total	NG/L	26	3	0.12	0.94	40.00	90.00	130.00	200.00	37.35			
	FWBZ	Dissolved	NG/L	14	0	0.00	0.96	2.01				37.35			
cis-nonachlor	FWBZ	Total	NG/L	14	1	0.07	1.28	2.59	6.08	6.08	6.08				
	FWBZ	Dissolved	NG/L	14	0	0.00	1.31	2.75							
delta-HCH	FWBZ	Total	NG/L	26	2	0.08	0.77	9.00	9.84	9.92	10.00				
	FWBZ	Dissolved	NG/L	14	0	0.00	0.79	1.65							
Dieldrin	FWBZ	Total	NG/L	26	3	0.12	1.51	20.00	4.67	**38.22**	**100.00**	4.20	710	1.9	
	FWBZ	Dissolved	NG/L	14	0	0.00	1.55	3.25				4.20	710	1.9	
Endosulfan I	FWBZ	Total	NG/L	26	0	0.00	0.54	9.00					34	8.7	
	FWBZ	Dissolved	NG/L	14	0	0.00	0.56	1.17					34	8.7	
Endosulfan II	FWBZ	Total	NG/L	26	4	0.15	1.37	20.00	13.80	**20.95**	**30.00**		34	8.7	
	FWBZ	Dissolved	NG/L	14	0	0.00	1.40	2.94					34	8.7	
Endosulfan sulfate	FWBZ	Total	NG/L	26	1	0.04	1.29	20.00	20.00	20.00	20.00				
	FWBZ	Dissolved	NG/L	14	0	0.00	1.32	2.76							
Endrin	FWBZ	Total	NG/L	26	2	0.08	1.49	20.00	30.00	**45.00**	**60.00**	10950.00	37	2.3	
	FWBZ	Dissolved	NG/L	14	0	0.00	1.52	3.20				10950.00	37	2.3	

Table 5-7. Summary Statistics for Landfill Groundwater (page 7 of 11)

Analyte	Zone	Fraction	Unit	Number of Samples			Nondetects		Detects			U.S. EPA Region 9 Tap Water PRG[a]	AWQC Acute[b]	AWQC Chronic[b]	Alameda Background Metals in FWBZ Groundwater[c]
				Total	Detects	Frequency of Detect (%)	Min MDL	Max MDL	Minimum Detect	Mean Detect	Maximum Detect				
PESTICIDES (Continued)															
Endrin aldehyde	FWBZ	Total	NG/L	26	1	0.04	1.68	20.00	30.00	30.00	30.00				
	FWBZ	Dissolved	NG/L	14	0	0.00	1.72	3.61							
Endrin ketone	FWBZ	Total	NG/L	26	3	0.12	1.76	20.00	20.00	26.67	30.00				
	FWBZ	Dissolved	NG/L	14	0	0.00	1.80	3.78							
gamma-BHC (Lindane)	FWBZ	Total	NG/L	26	2	0.08	0.98	10.00	10.00	15.00	20.00	51.72	160		
	FWBZ	Dissolved	NG/L	14	0	0.00	1.00	2.10				51.72	160		
gamma-Chlordane	FWBZ	Total	NG/L	26	4	0.15	0.80	9.00	10.00	**15.51**	**32.03**		90	4	
	FWBZ	Dissolved	NG/L	14	0	0.00	0.82	1.72					90	4	
Heptachlor	FWBZ	Total	NG/L	26	6	0.23	1.16	10.00	10.00	**23.33**	**40.00**	14.94	53	3.6	
	FWBZ	Dissolved	NG/L	14	0	0.00	1.19	2.50				14.94	53	3.6	
Heptachlor epoxide	FWBZ	Total	NG/L	26	5	0.19	3.00	10.00	8.00	**18.28**	**33.41**	7.39	53	3.6	
	FWBZ	Dissolved	NG/L	14	0	0.00	3.20	6.71				7.39	53	3.6	
Methoxychlor	FWBZ	Total	NG/L	26	2	0.08	1.94	100.00	2.83	16.66	30.49	182499.97			
	FWBZ	Dissolved	NG/L	14	0	0.00	1.99	4.16				182499.97			
Toxaphene	FWBZ	Total	NG/L	26	0	0.00	82.74	700.00				61.12	210	0.2	
	FWBZ	Dissolved	NG/L	14	0	0.00	84.84	177.80				61.12	210	0.2	
trans-Nonachlor	FWBZ	Total	NG/L	14	1	0.07	0.80	1.62	7.98	7.98	7.98				
	FWBZ	Dissolved	NG/L	14	0	0.00	0.82	1.72							
VOCs															
1,1,1-Trichloroethane (TCA)	FWBZ	Total	µg/L	27	0	0.00	0.04	0.12				3171.72			
	SWBZ	Total	µg/L	10	0	0.00	0.04	0.05				3171.72			
1,1,2,2-Tetrachloroethane	FWBZ	Total	µg/L	27	0	0.00	0.04	0.30				0.06			
	SWBZ	Total	µg/L	10	0	0.00	0.04	0.09				0.06			
1,1,2-trichloro-1,2,2-trifluoroethane	FWBZ	Total	µg/L	14	0	0.00	0.14	0.14							
1,1,2-Trichloroethane	FWBZ	Total	µg/L	27	0	0.00	0.10	0.40				0.20			
	SWBZ	Total	µg/L	10	0	0.00	0.10	0.10				0.20			
1,1-Dichloroethane	FWBZ	Total	µg/L	27	2	0.07	0.06	0.20	0.20	0.34	0.48	811.11			
	SWBZ	Total	µg/L	10	0	0.00	0.06	0.09				811.11			
1,1-Dichloroethene	FWBZ	Total	µg/L	27	1	0.04	0.10	0.40	0.22	0.22	0.22	338.84			
	SWBZ	Total	µg/L	10	0	0.00	0.10	0.10				338.84			
1,2,3-Trichlorobenzene	FWBZ	Total	µg/L	27	0	0.00	0.07	0.33							
	SWBZ	Total	µg/L	10	0	0.00	0.07	0.10							
1,2,4-Trichlorobenzene	FWBZ	Total	µg/L	27	0	0.00	0.10	0.50				7.16			
	SWBZ	Total	µg/L	10	0	0.00	0.10	0.20				7.16			
1,2-Dibromo-3-chloropropane	FWBZ	Total	µg/L	27	0	0.00	0.20	1.00				0.05			
	SWBZ	Total	µg/L	10	0	0.00	0.20	0.40				0.05			
1,2-Dibromoethane (EDB)	FWBZ	Total	µg/L	27	0	0.00	0.07	0.30				0.01			
	SWBZ	Total	µg/L	10	0	0.00	0.09	0.10				0.01			
1,2-Dichlorobenzene	FWBZ	Total	µg/L	27	14	0.52	0.05	0.30	0.10	0.41	1.05	370.14			
	SWBZ	Total	µg/L	10	0	0.00	0.05	0.08				370.14			
1,2-Dichloroethane (EDC)	FWBZ	Total	µg/L	27	2	0.07	0.10	0.30	0.80	0.82	0.84	0.12			
	SWBZ	Total	µg/L	10	0	0.00	0.10	0.20				0.12			
1,2-Dichloropropane	FWBZ	Total	µg/L	27	0	0.00	0.05	0.30				0.16			
	SWBZ	Total	µg/L	10	0	0.00	0.05	0.10				0.16			
1,3-Dichlorobenzene	FWBZ	Total	µg/L	27	14	0.52	0.06	0.30	0.10	0.41	2.00	182.50			
	SWBZ	Total	µg/L	10	0	0.00	0.06	0.09				182.50			
1,4-Dichlorobenzene	FWBZ	Total	µg/L	27	21	0.78	0.05	0.20	0.20	7.56	20.00	0.50			
	SWBZ	Total	µg/L	10	0	0.00	0.05	0.08				0.50			
2-Butanone (MEK)	FWBZ	Total	µg/L	27	4	0.15	0.10	2.00	1.90	3.38	4.50	6968.18			
	SWBZ	Total	µg/L	10	0	0.00	0.10	0.60				6968.18			
2-Hexanone	FWBZ	Total	µg/L	27	0	0.00	0.09	4.00							
	SWBZ	Total	µg/L	10	0	0.00	0.09	0.20							
4-Methyl-2-pentanone (MIBK)	FWBZ	Total	µg/L	27	0	0.00	0.07	2.70				1993.02			
	SWBZ	Total	µg/L	10	0	0.00	0.07	0.20				1993.02			
Acetone	FWBZ	Total	µg/L	27	18	0.67	0.40	4.10	1.30	6.48	12.00	5475.00			
	SWBZ	Total	µg/L	10	3	0.30	0.40	1.10	0.50	0.93	1.50	5475.00			

Table 5-7. Summary Statistics for Landfill Groundwater (page 8 of 11)

Analyte	Zone	Fraction	Unit	Number of Samples			Nondetects		Detects			U.S. EPA Region 9 Tap Water PRG[a]	AWQC Acute[b]	AWQC Chronic[b]	Alameda Background Metals in FWBZ Groundwater[c]
				Total	Detects	Frequency of Detect (%)	Min MDL	Max MDL	Minimum Detect	Mean Detect	Maximum Detect				
VOCs (Continued)															
Benzene	FWBZ	Total	µg/L	27	18	0.67	0.04	0.14	0.24	3.49	24.00	0.35			
	SWBZ	Total	µg/L	10	0	0.00	0.04	0.07				0.35			
Bromochloromethane	FWBZ	Total	µg/L	27	0	0.00	0.08	0.30							
	SWBZ	Total	µg/L	10	0	0.00	0.08	0.08							
Bromodichloromethane	FWBZ	Total	µg/L	27	0	0.00	0.06	0.20				0.18			
	SWBZ	Total	µg/L	10	0	0.00	0.06	0.10				0.18			
Bromoform	FWBZ	Total	µg/L	27	0	0.00	0.05	0.30				8.51			
	SWBZ	Total	µg/L	10	0	0.00	0.05	0.10				8.51			
Bromomethane	FWBZ	Total	µg/L	27	0	0.00	0.22	1.80				8.66			
	SWBZ	Total	µg/L	10	0	0.00	0.40	0.70				8.66			
Carbon Disulfide	FWBZ	Total	µg/L	27	1	0.04	0.04	0.80	0.40	0.40	0.40	1042.86			
	SWBZ	Total	µg/L	10	0	0.00	0.04	0.30				1042.86			
Carbon Tetrachloride	FWBZ	Total	µg/L	27	0	0.00	0.09	0.30				0.17			
	SWBZ	Total	µg/L	10	0	0.00	0.09	0.10				0.17			
Chlorobenzene	FWBZ	Total	µg/L	27	18	0.67	0.03	1.90	0.50	59.96	270.00	106.07			
	SWBZ	Total	µg/L	10	2	0.20	0.03	0.06	0.20	0.20	0.20	106.07			
Chloroethane	FWBZ	Total	µg/L	27	3	0.11	0.08	1.30	0.20	1.76	4.60	4.64			
	SWBZ	Total	µg/L	10	0	0.00	0.08	0.40				4.64			
Chloroform	FWBZ	Total	µg/L	27	0	0.00	0.04	0.20				0.17			
	SWBZ	Total	µg/L	10	0	0.00	0.04	0.07				0.17			
Chloromethane	FWBZ	Total	µg/L	27	0	0.00	0.07	0.50				158.17			
	SWBZ	Total	µg/L	10	0	0.00	0.07	0.20				158.17			
cis-1,2-Dichloroethene	FWBZ	Total	µg/L	27	10	0.37	0.07	0.60	0.10	0.92	6.90	60.83			
	SWBZ	Total	µg/L	10	0	0.00	0.07	0.20				60.83			
cis-1,3-Dichloropropene	FWBZ	Total	µg/L	14	0	0.00	0.09	0.11							
Cyclohexane	FWBZ	Total	µg/L	14	7	0.50	0.20	0.20	0.22	0.36	0.55	10341.67			
Dibromochloromethane	FWBZ	Total	µg/L	27	0	0.00	0.05	0.40				0.13			
	SWBZ	Total	µg/L	10	0	0.00	0.05	0.10				0.13			
Dichlorodifluoromethane	FWBZ	Total	µg/L	27	0	0.00	0.08	0.50				394.59			
	SWBZ	Total	µg/L	10	0	0.00	0.08	0.20				394.59			
Ethylbenzene	FWBZ	Total	µg/L	27	10	0.37	0.04	0.20	0.14	0.78	2.70	1339.87			
	SWBZ	Total	µg/L	10	1	0.10	0.04	0.07	0.06	0.06	0.06	1339.87			
Isopropyl ether	FWBZ	Total	µg/L	27	5	0.19	0.05	0.25	0.20	0.45	1.30				
	SWBZ	Total	µg/L	10	0	0.00	0.05	0.20							
Isopropylbenzene	FWBZ	Total	µg/L	27	17	0.63	0.03	0.30	0.07	0.91	1.80	658.20			
	SWBZ	Total	µg/L	10	0	0.00	0.03	0.08				658.20			
m,p-Xylenes	FWBZ	Total	µg/L	27	11	0.41	0.10	0.70	0.20	1.63	11.00	205.73			
	SWBZ	Total	µg/L	10	0	0.00	0.10	0.20				205.73			
Methyl Acetate	FWBZ	Total	µg/L	14	0	0.00	0.30	2.00				6083.33			
Methyl tert-Butyl Ether (MTBE)	FWBZ	Total	µg/L	27	0	0.00	0.06	0.60				5474.97			
	SWBZ	Total	µg/L	10	0	0.00	0.06	0.20				5474.97			
Methylcyclohexane	FWBZ	Total	µg/L	14	8	0.57	0.19	0.19	0.19	0.30	0.50	5217.17			
Methylene Chloride	FWBZ	Total	µg/L	27	0	0.00	0.10	0.90				4.28			
	SWBZ	Total	µg/L	10	0	0.00	0.10	0.30				4.28			
o-Xylene	FWBZ	Total	µg/L	27	14	0.52	0.06	0.30	0.14	1.05	7.50				
	SWBZ	Total	µg/L	10	0	0.00	0.06	0.08							
Styrene	FWBZ	Total	µg/L	27	1	0.04	0.04	0.20	0.17	0.17	0.17	1641.09			
	SWBZ	Total	µg/L	10	1	0.10	0.04	0.07	0.20	0.20	0.20	1641.09			
Tert-amyl Methyl Ether	FWBZ	Total	µg/L	13	0	0.00	0.07	0.30							
	SWBZ	Total	µg/L	10	0	0.00	0.07	0.10							
Tert-butyl Alcohol	FWBZ	Total	µg/L	13	4	0.31	1.40	21.00	1.60	12.15	23.00				
	SWBZ	Total	µg/L	10	4	0.40	1.40	8.60	1.60	5.10	8.60				
Tert-butyl Ethyl Ether	FWBZ	Total	µg/L	13	0	0.00	0.05	0.20							
	SWBZ	Total	µg/L	10	0	0.00	0.05	0.06							
Tetrachloroethene (PCE)	FWBZ	Total	µg/L	27	0	0.00	0.06	0.50				0.10			
	SWBZ	Total	µg/L	10	0	0.00	0.06	0.10				0.10			

Table 5-7. Summary Statistics for Landfill Groundwater (page 9 of 11)

Analyte	Zone	Fraction	Unit	Number of Samples			Nondetects		Detects			U.S. EPA Region 9 Tap Water PRG[a]	AWQC Acute[b]	AWQC Chronic[b]	Alameda Background Metals in FWBZ Groundwater[c]
				Total	Detects	Frequency of Detect (%)	Min MDL	Max MDL	Minimum Detect	Mean Detect	Maximum Detect				
VOCs (Continued)															
Toluene	FWBZ	Total	µg/L	27	17	0.63	0.06	0.30	0.22	1.24	13.00	723.42			
	SWBZ	Total	µg/L	10	1	0.10	0.06	0.10	0.10	0.10	0.10	723.42			
trans-1,2-Dichloroethene	FWBZ	Total	µg/L	27	1	0.04	0.06	0.70	0.70	0.70	0.70	121.67			
	SWBZ	Total	µg/L	10	0	0.00	0.06	0.20				121.67			
trans-1,3-Dichloropropene	FWBZ	Total	µg/L	14	0	0.00	0.09	0.09							
Trichloroethene (TCE)	FWBZ	Total	µg/L	27	1	0.04	0.10	0.30	0.50	0.50	0.50	1.40			
	SWBZ	Total	µg/L	10	0	0.00	0.10	0.10				1.40			
Trichlorofluoromethane	FWBZ	Total	µg/L	27	1	0.04	0.06	0.40	41.00	41.00	41.00	1288.24			
	SWBZ	Total	µg/L	10	0	0.00	0.06	0.10				1288.24			
Vinyl Chloride	FWBZ	Total	µg/L	27	1	0.04	0.08	0.40	6.60	6.60	6.60	0.02			
	SWBZ	Total	µg/L	10	0	0.00	0.08	0.10				0.02			
PCDD/PCDF															
1,2,3,4,6,7,8-HpCDD	FWBZ	Total	pg/L	2	2	1.00	12.59	13.68	46.20	415.83	785.47				
1,2,3,4,6,7,8-HpCDF	FWBZ	Total	pg/L	2	1	0.50	6.46	9.31	126.97	126.97	126.97				
1,2,3,4,7,8,9-HpCDF	FWBZ	Total	pg/L	2	0	0.00	8.79	12.67							
1,2,3,4,7,8-HxCDD	FWBZ	Total	pg/L	2	0	0.00	7.25	8.88							
1,2,3,4,7,8-HxCDF	FWBZ	Total	pg/L	2	0	0.00	4.40	5.64							
1,2,3,6,7,8-HxCDD	FWBZ	Total	pg/L	2	1	0.50	6.11	7.48	14.81	14.81	14.81				
1,2,3,6,7,8-HxCDF	FWBZ	Total	pg/L	2	0	0.00	4.36	5.59							
1,2,3,7,8,9-HxCDD	FWBZ	Total	pg/L	2	0	0.00	6.16	7.55							
1,2,3,7,8,9-HxCDF	FWBZ	Total	pg/L	2	0	0.00	5.32	6.83							
1,2,3,7,8-PeCDD	FWBZ	Total	pg/L	2	0	0.00	9.24	10.85							
1,2,3,7,8-PeCDF	FWBZ	Total	pg/L	2	0	0.00	5.41	6.01							
2,3,4,6,7,8-HxCDF	FWBZ	Total	pg/L	2	0	0.00	4.78	6.13							
2,3,4,7,8-PeCDF	FWBZ	Total	pg/L	2	0	0.00	5.27	5.85							
2,3,7,8-TCDD	FWBZ	Total	pg/L	2	0	0.00	6.87	6.92							
2,3,7,8-TCDF	FWBZ	Total	pg/L	2	0	0.00	5.64	6.82							
OCDD	FWBZ	Total	pg/L	2	2	1.00	18.96	25.72	376.55	5233.50	10090.45				
OCDF	FWBZ	Total	pg/L	2	1	0.50	31.47	33.65	511.10	511.10	511.10				
Tetrachlorodibenzofuran	FWBZ	Total	pg/L	2	0	0.00	5.64	6.82							
TEQ_bird	FWBZ	Total	pg/L	2	2	1.00			0.04	1.26	2.48				
TEQ_mammal	FWBZ	Total	pg/L	2	2	1.00			0.50	6.08	11.67				
PETROLEUM HYDROCARBONS															
Diesel	FWBZ	Total	µg/L	21	18	0.86	32	38	200	3481	8900				
	FWBZ	Dissolved	µg/L	8	8	1.00	36	36	560	2464	3900				
	SWBZ	Total	µg/L	10	5	0.50	32	38	56	198	600				
Gasoline	FWBZ	Total	µg/L	21	12	0.57	6	45	105	645	2700				
	FWBZ	Dissolved	µg/L	8	7	0.88	45	45	105	534	1200				
	SWBZ	Total	µg/L	10	0	0.00	6	9							
Residual Range Organics (RRO)	FWBZ	Total	µg/L	21	18	0.86	54	110	180	2014	8800				
	FWBZ	Dissolved	µg/L	8	8	1.00	54	54	600	1309	2100				
	SWBZ	Total	µg/L	10	1	0.10	78	110	450	450	450				
RADIONUCLIDES															
Gross alpha	FWBZ	Total	pCi/L	10	0	0.00	1.3	91.0							
	FWBZ	Dissolved	pCi/L	5	0	0.00	4.8	130.0							
	SWBZ	Total	pCi/L	7	1	0.14	12.1	57.8	52.0	52.0	52.0				
Gross beta	FWBZ	Total	pCi/L	10	10	1.00	1.0	97.0	4.0	61.5	174.0				
	FWBZ	Dissolved	pCi/L	5	5	1.00	1.7	93.0	14.7	60.6	138.0				
	SWBZ	Total	pCi/L	7	6	0.86	17.3	72.7	53.4	79.4	127.0				
Pb 210	FWBZ	Total	pCi/L	5	1	0.20	4.0	12.0	4.4	4.4	4.4				
	FWBZ	Dissolved	pCi/L	5	0	0.00	3.7	26.0							
Ra 226	FWBZ	Total	PCI/L	5	3	0.60	0.05	0.37	0.30	0.51	0.91				
	FWBZ	Dissolved	PCI/L	5	4	0.80	0.05	0.30	0.06	0.18	0.33				
Ra 228	FWBZ	Total	pCi/L	10	1	0.10	0.89	3.19	1.63	1.63	1.63				
	FWBZ	Dissolved	pCi/L	5	0	0.00	0.88	1.80							
	SWBZ	Total	pCi/L	7	4	0.57	2.06	4.09	2.88	4.28	5.90				

Table 5-7. Summary Statistics for Landfill Groundwater (page 10 of 11)

Analyte	Zone	Fraction	Unit	Number of Samples			Nondetects		Detects			U.S. EPA Region 9 Tap Water PRG[a]	AWQC Acute[b]	AWQC Chronic[b]	Alameda Background Metals in FWBZ Groundwater[c]
				Total	Detects	Frequency of Detect (%)	Min MDL	Max MDL	Minimum Detect	Mean Detect	Maximum Detect				
RADIONUCLIDES (Continued)															
Tritium	FWBZ	Total	pCi/L	6	1	0.17	280.0	379.0	355.0	355.0	355.0				
	FWBZ	Dissolved	pCi/L	1	0	0.00	300.0	300.0							
	SWBZ	Total	pCi/L	7	0	0.00	291.0	375.0							
U 234	FWBZ	Total	pCi/L	5	3	0.60	0.02	0.07	0.08	0.53	1.41				
	FWBZ	Dissolved	pCi/L	5	4	0.80	0.03	0.07	0.05	0.12	0.28				
U 235	FWBZ	Total	pCi/L	5	0	0.00	0.02	0.08							
	FWBZ	Dissolved	pCi/L	5	0	0.00	0.03	0.09							
U 238	FWBZ	Total	pCi/L	5	4	0.80	0.02	0.04	0.02	0.20	0.58				
	FWBZ	Dissolved	pCi/L	5	1	0.20	0.02	0.07	0.08	0.08	0.08				
EXPLOSIVES															
1,3,5-Trinitrobenzene	FWBZ	Total	µg/L	3	0	0.00	0.38	0.43				1095.00			
	FWBZ	Dissolved	µg/L	2	0	0.00	0.38	0.38				1095.00			
1,3-Dinitrobenzene	FWBZ	Total	µg/L	3	0	0.00	0.27	0.30				3.65			
	FWBZ	Dissolved	µg/L	2	0	0.00	0.27	0.27				3.65			
2,4,6-Trinitrotoluene	FWBZ	Total	µg/L	3	0	0.00	0.50	0.56				2.24			
	FWBZ	Dissolved	µg/L	2	0	0.00	0.50	0.50				2.24			
2,4-Dinitrotoluene	FWBZ	Total	µg/L	15	1	0.07	0.30	0.90	1.00	1.00	1.00	73.00			
	FWBZ	Dissolved	µg/L	2	0	0.00	0.32	0.32				73.00			
	SWBZ	Total	µg/L	10	0	0.00	0.29	0.94				73.00			
2,6-Dinitrotoluene	FWBZ	Total	µg/L	15	0	0.00	0.39	0.91				36.50			
	FWBZ	Dissolved	µg/L	2	0	0.00	0.39	0.39				36.50			
	SWBZ	Total	µg/L	10	0	0.00	0.42	0.96				36.50			
2-Amino-4,6-dinitrotoluene	FWBZ	Total	µg/L	3	0	0.00	0.46	0.52							
	FWBZ	Dissolved	µg/L	2	0	0.00	0.46	0.46							
2-Nitrotoluene	FWBZ	Total	µg/L	3	0	0.00	0.32	0.36							
	FWBZ	Dissolved	µg/L	2	0	0.00	0.32	0.32							
3-Nitrotoluene	FWBZ	Total	µg/L	3	0	0.00	0.34	0.38				121.67			
	FWBZ	Dissolved	µg/L	2	0	0.00	0.34	0.34				121.67			
4-Amino-2,6-dinitrotoluene	FWBZ	Total	µg/L	3	0	0.00	0.53	0.59							
	FWBZ	Dissolved	µg/L	2	0	0.00	0.53	0.53							
4-Nitrotoluene	FWBZ	Total	µg/L	3	1	0.33	0.50	0.56	1.60	1.60	1.60	0.66			
	FWBZ	Dissolved	µg/L	2	1	0.50	0.50	0.50	1.50	1.50	1.50	0.66			
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	FWBZ	Total	µg/L	3	0	0.00	0.38	0.43				0.61			
	FWBZ	Dissolved	µg/L	2	0	0.00	0.38	0.38				0.61			
Methyl-2,4,6-trinitrophenylnitramine (Tetryl)	FWBZ	Total	µg/L	3	0	0.00	0.37	0.42				365.00			
	FWBZ	Dissolved	µg/L	2	0	0.00	0.37	0.37				365.00			
Nitrobenzene	FWBZ	Total	µg/L	15	0	0.00	0.26	1.10				3.40			
	FWBZ	Dissolved	µg/L	2	0	0.00	0.45	0.45				3.40			
	SWBZ	Total	µg/L	10	0	0.00	0.26	1.10				3.40			
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	FWBZ	Total	µg/L	3	0	0.00	0.46	0.52				1825.00			
	FWBZ	Dissolved	µg/L	2	0	0.00	0.46	0.46				1825.00			
GENERAL CHEMISTRY															
Alkalinity (as $CaCO_3$)	FWBZ	Total	mg/L	7	7	1.00	1.0	1.0	120.0	1178.6	2500.0				
	SWBZ	Total	mg/L	7	7	1.00	1.0	1.0	410.0	954.3	2000.0				
Alkalinity (Bicarbonate)	FWBZ	Total	mg/L	7	7	1.00	1.0	1.0	120.0	1178.6	2500.0				
	SWBZ	Total	mg/L	7	7	1.00	1.0	1.0	410.0	954.3	2000.0				
Alkalinity (Carbonate)	FWBZ	Total	mg/L	7	0	0.00	1.0	1.0							
	SWBZ	Total	mg/L	7	0	0.00	1.0	1.0							
Sulfide	FWBZ	Total	mg/L	7	2	0.29	0.03	0.03	0.2	1.2	2.2				
	SWBZ	Total	mg/L	7	0	0.00	0.03	0.03							
ANIONS															
Chloride	FWBZ	Total	mg/L	7	7	1.00	0.6	110.0	90.0	3991.4	12000.0				
	SWBZ	Total	mg/L	7	7	1.00	28.0	110.0	2300.0	10642.9	16000.0				
Nitrate	FWBZ	Total	mg/L	7	2	0.29	0.01	0.3	0.1	0.1	0.2				
	SWBZ	Total	mg/L	7	0	0.00	0.06	0.3							

Table 5-7. Summary Statistics for Landfill Groundwater (page 11 of 11)

Analyte	Zone	Fraction	Unit	Number of Samples			Nondetects		Detects			U.S. EPA Region 9 Tap Water PRG[a]	AWQC Acute[b]	AWQC Chronic[b]	Alameda Background Metals in FWBZ Groundwater[c]
				Total	Detects	Frequency of Detect (%)	Min MDL	Max MDL	Minimum Detect	Mean Detect	Maximum Detect				
ANIONS (Continued)															
Nitrite	FWBZ	Total	mg/L	7	0	0.00	0.01	0.3							
	SWBZ	Total	mg/L	7	0	0.00	0.05	0.5							
Sulfate	FWBZ	Total	mg/L	7	6	0.86	0.06	120.0	1.1	311.6	1800.0				
	SWBZ	Total	mg/L	7	4	0.57	0.3	2.9	1400.0	1850.0	2200.0				

(a) U.S. EPA. 2004a. Region 9 PRGs for Tap Water, October.
(b) U.S. EPA, 2002c. National Recommended Water Quality Criteria. Office of Water and Office of Science and Technology. EPA-822-R-02-047. November.
(c) TtEMI, 2001. *Summary of Background Concentrations in Soil and Groundwater, Alameda Point, California.*
Mean and/or maximum detected concentrations shown in bold text exceed the chronic AWQC and those with highlight exceed acute AWQC.

Table 5-8. Summary Statistics for Wetland Surface Soil (0-1 ft bgs)

Analyte	Unit	IR Site 2 Wetland								CCSP Wetland								Alameda PCDD/PCDF								U.S. EPA Region 9 Residential PRG[a]	Alameda Background[b]	San Francisco Bay Sediment Ambient[c]
		Number of Samples			Nondetects		Detects			Number of Samples			Nondetects		Detects			Number of Samples			Nondetects		Detects					
		Total	Detects	Frequency of Detect (%)	Min MDL	Max MDL	Minimum Detect	Mean Detect	Maximum Detect	Total	Detects	Frequency of Detect (%)	Min MDL	Max MDL	Minimum Detect	Mean Detect	Maximum Detect	Total	Detects	Frequency of Detect (%)	Min MDL	Max MDL	Minimum Detect	Mean Detect	Maximum Detect			
METALS																												
Aluminum	mg/kg dry wt	44	44	1.00	8	12	3660	19492	38000	3	3	1.00	9	10	28100	34233	38300									76142	6869	
Antimony	mg/kg dry wt	44	26	0.59	0.02	0.03	0.19	0.54	3.05	3	3	1.00	0.02	0.02	0.27	0.50	0.91									31.29	3.1	
Arsenic	mg/kg dry wt	44	44	1.00	0.05	0.06	1.17	6.16	10.70	3	3	1.00	0.05	0.05	8.52	9.22	10.50									0.39	9.4	15.3
Barium	mg/kg dry wt	44	44	1.00	0.2	0.3	14.6	60.5	126.0	3	3	1.00	0.2	0.2	44.7	51.5	55.2									5374.9	43.5	
Beryllium	mg/kg dry wt	44	44	1.00	0.03	0.10	0.10	0.56	1.07	3	3	1.00	0.10	0.10	0.70	0.80	0.90									154.37	0.63	
Cadmium	mg/kg dry wt	44	29	0.66	0.1	1.0	0.3	1.5	3.3	3	0	0.00	0.7	0.8												37.0	0.8	0.33
Chromium	mg/kg dry wt	44	44	1.00	0.5	0.7	25.2	84.5	150.0	3	3	1.00	0.6	0.6	94.6	107.2	118.0									210.7	34.4	112
Cobalt	mg/kg dry wt	44	44	1.00	0.3	2.4	4.6	12.1	23.8	3	3	1.00	1.9	2.0	15.4	18.0	20.7									902.9	4.9	
Copper	mg/kg dry wt	44	44	1.00	0.9	2.5	4.1	47.5	295.0	3	3	1.00	0.8	0.9	55.5	59.3	61.3									3128.6	19.3	68.1
Hexavalent Chromium	mg/kg dry wt	19	2	0.11	0.1	0.4	0.1	0.2	0.2																	30.1		
Iron	mg/kg dry wt	44	44	1.00	1	4	7570	30400	55100	3	3	1.00	3	3	42200	47133	53100									23463	11410	
Lead	mg/kg dry wt	44	44	1.00	0.02	0.2	2.2	45.6	271.0	3	3	1.00	0.02	0.02	26.4	30.4	32.6									400.0	51.7	43.2
Magnesium	mg/kg dry wt	44	44	1.00	0.5	3	2550	9099	19400	3	3	1.00	0.5	0.5	14400	15400	16800										3178	
Manganese	mg/kg dry wt	44	44	1.00	0.05	0.4	85	353	692	3	3	1.00	0.3	0.3	566	720	826									1762	157.6	
Mercury	µg/kg dry wt	44	44	1.00	0.3	6.0	5.5	373.1	828.0	3	3	1.00	6	6	271	283	302										120	430
Molybdenum	mg/kg dry wt	44	0	0.00	1.9	2.5				3	2	0.67	1.9	2.0	2.2	2.9	3.6									391.1		
Nickel	mg/kg dry wt	44	44	1.00	0.04	7.0	23.9	68.8	121.0	3	3	1.00	0.04	0.04	72.1	76.9	85.1									1564.3	30.6	112
Selenium	mg/kg dry wt	44	37	0.84	0.1	0.1	0.1	0.6	1.3	3	3	1.00	0.1	0.1	1.0	1.2	1.3									391.1		0.64
Silver	mg/kg dry wt	44	44	1.00	0.003	0.005	0.021	0.636	1.500	3	3	1.00	0.004	0.004	0.197	0.314	0.456									391.071	4	0.58
Thallium	mg/kg dry wt	44	40	0.91	0.002	0.003	0.024	0.141	0.270	3	3	1.00	0.002	0.002	0.178	0.184	0.193									5.162		
Tri-*n*-butyltin Cation	µg/kg dry wt	7	2	0.29	0.17	0.24	0.51	0.86	1.20																			
Vanadium	mg/kg dry wt	44	44	1.00	0.6	1.1	16.5	56.7	101.0	3	3	1.00	0.8	0.9	79.4	91.4	102.0									78.2	27.9	
Zinc	mg/kg dry wt	44	44	1.00	0.3	0.6	17	128	533	3	3	1.00	0.5	0.5	134	145	156									23463	56.8	158
SVOCs/PAHs																												
1,1'-Byphenyl	µg/kg dry wt	44	6	0.14	4.90	96.00	6.00	7.27	9.10	3	0	0.00	11.00	100.00														12.9
1,2,4,5-Tetrachlorobenzene	µg/kg dry wt	44	0	0.00	5.00	98.00				3	0	0.00	11.00	110.00												184681.89		
2,4,5-Trichlorophenol	µg/kg dry wt	44	0	0.00	3.10	60.00				3	0	0.00	6.80	63.00												6110309.70		
2,4,6-Trichlorophenol	µg/kg dry wt	44	0	0.00	1.90	36.00				3	0	0.00	4.10	38.00												6110.31		
2,4-Dichlorophenol	µg/kg dry wt	44	0	0.00	1.90	36.00				3	0	0.00	4.10	38.00												183309.29		
2,4-Dimethylphenol	µg/kg dry wt	44	0	0.00	5.60	110.00				3	0	0.00	13.00	120.00												1222061.94		
2,4-Dinitrophenol	µg/kg dry wt	44	0	0.00	37.00	720.00				3	0	0.00	81.00	750.00												122206.19		
2-Chloronaphthalene	µg/kg dry wt	44	0	0.00	3.70	72.00				3	0	0.00	8.10	75.00												4936640.54		
2-Chlorophenol	µg/kg dry wt	44	0	0.00	1.80	34.00				3	0	0.00	3.90	36.00												63398.46		
2-Methyl-4,6-dinitrophenol	µg/kg dry wt	44	0	0.00	1.80	34.00				3	0	0.00	3.90	36.00														
2-Methylnaphthalene	µg/kg dry wt	44	22	0.50	1.30	24.00	1.80	9.18	18.00	3	0	0.00	2.70	25.00														19.4
2-Methylphenol	µg/kg dry wt	44	0	0.00	3.50	68.00				3	0	0.00	7.70	71.00												3055154.85		
2-Nitroaniline	µg/kg dry wt	44	0	0.00	2.80	54.00				3	0	0.00	6.10	57.00												182772.21		
2-Nitrophenol	µg/kg dry wt	44	0	0.00	2.70	52.00				3	0	0.00	5.90	55.00														
3,3'-Dichlorobenzidine	µg/kg dry wt	44	0	0.00	3.80	74.00				3	0	0.00	8.30	78.00												1080.85		
3-Nitroaniline	µg/kg dry wt	44	0	0.00	2.70	52.00				3	0	0.00	5.90	55.00												18330.93		
4-Bromophenyl Phenyl Ether	µg/kg dry wt	44	0	0.00	1.50	28.00				3	0	0.00	3.20	30.00														
4-Chloro-3-methylphenol	µg/kg dry wt	44	1	0.02	2.20	42.00	7.40	7.40	7.40	3	0	0.00	4.70	44.00														
4-Chloroaniline	µg/kg dry wt	44	12	0.27	2.20	42.00	2.50	10.04	20.00	3	0	0.00	4.70	44.00												244412.39		
4-Chlorophenyl Phenyl Ether	µg/kg dry wt	44	0	0.00	2.10	40.00				3	0	0.00	4.50	42.00														
4-Methylphenol	µg/kg dry wt	44	0	0.00	3.00	58.00				3	0	0.00	6.50	61.00												305515.49		
4-Nitroaniline	µg/kg dry wt	44	0	0.00	3.50	68.00				3	0	0.00	7.70	71.00												23160.98		
4-Nitrophenol	µg/kg dry wt	44	0	0.00	31.00	600.00				3	0	0.00	68.00	630.00														
Acenaphthene	µg/kg dry wt	44	21	0.48	1.10	20.00	1.60	5.51	25.00	3	0	0.00	2.30	21.00												3681705.75		26.6
Acenaphthylene	µg/kg dry wt	44	28	0.64	1.50	28.00	1.70	10.85	33.00	3	0	0.00	3.20	30.00														31.7
Acetophenone	µg/kg dry wt	44	7	0.16	13.00	240.00	13.00	37.00	140.00	3	0	0.00	27.00	250.00														
Anthracene	µg/kg dry wt	44	34	0.77	1.50	28.00	2.10	15.65	46.00	3	0	0.00	3.20	30.00												21896120.62		88
Atrazine	µg/kg dry wt	44	0	0.00	2.30	44.00				3	0	0.00	5.00	46.00												2190.90		
Benzaldehyde	µg/kg dry wt	44	6	0.14	8.90	180.00	11.00	57.17	220.00	3	1	0.33	20.00	190.00	32.00	32.00	32.00									6110309.70		
Benzo(a)anthracene	µg/kg dry wt	44	39	0.89	1.50	28.00	1.60	40.45	93.00	3	1	0.33	3.20	30.00	3.90	3.90	3.90									621.46		244
Benzo(a)pyrene	µg/kg dry wt	44	41	0.93	1.70	32.00	1.70	51.34	140.00	3	0	0.00	6.70	34.00												62.15	537400	412
Benzo(b)fluoranthene	µg/kg dry wt	44	38	0.86	2.60	50.00	3.20	71.94	200.00	3	0	0.00	11.00	53.00												621.46		371
Benzo(g,h,i)perylene	µg/kg dry wt	44	38	0.86	2.40	46.00	3.60	74.90	220.00	3	0	0.00	9.60	48.00													538900	310
Benzo(k)fluoranthene	µg/kg dry wt	44	35	0.80	2.60	50.00	3.60	49.65	120.00	3	0	0.00	11.00	53.00												6214.57		258

Table 5-8. Summary Statistics for Wetland Surface Soil (0-1 ft bgs) (page 2 of 4)

Analyte	Unit	IR Site 2 Wetland								CCSP Wetland								Alameda PCDD/PCDF								U.S. EPA Region 9 Residential PRG[a]	Alameda Background[b]	San Francisco Bay Sediment Ambient[c]
		Number of Samples			Nondetects		Detects			Number of Samples			Nondetects		Detects			Number of Samples			Nondetects		Detects					
		Total	Detects	Frequency of Detect (%)	Min MDL	Max MDL	Minimum Detect	Mean Detect	Maximum Detect	Total	Detects	Frequency of Detect (%)	Min MDL	Max MDL	Minimum Detect	Mean Detect	Maximum Detect	Total	Detects	Frequency of Detect (%)	Min MDL	Max MDL	Minimum Detect	Mean Detect	Maximum Detect			
SVOCs/PAHs (Continued)																												
Bis(2-chloroethoxy)methane	µg/kg dry wt	44	0	0.00	1.40	26.00				3	0	0.00	3.00	28.00														
Bis(2-chloroethyl) Ether	µg/kg dry wt	44	0	0.00	2.50	48.00				3	0	0.00	5.40	50.00												217.50		
Bis(2-ethylhexyl) Phthalate	µg/kg dry wt	44	21	0.48	1.80	37.00	29.00	349.43	2300.00	3	0	0.00	3.90	36.00												34741.47		
Bis(chloroisopropyl) Ether	µg/kg dry wt	44	0	0.00	1.30	24.00				3	0	0.00	2.70	25.00												2884.22		
Butyl Benzyl Phthalate	µg/kg dry wt	44	38	0.86	1.60	30.00	1.90	25.81	70.00	3	0	0.00	3.40	32.00												12220619.40		
Caprolactam	µg/kg dry wt	44	1	0.02	13.00	240.00	35.00	35.00	35.00	3	0	0.00	27.00	250.00												30551548.50		
Carbazole	µg/kg dry wt	44	16	0.36	1.40	26.00	2.00	7.60	30.00	3	0	0.00	3.00	28.00												24319.03		
Chrysene	µg/kg dry wt	44	42	0.95	1.50	28.00	1.60	56.96	140.00	3	1	0.33	3.20	30.00	5.90	5.90	5.90									62145.67	535600	289
Dibenz(a,h)anthracene	µg/kg dry wt	44	21	0.48	2.30	44.00	2.50	13.93	32.00	3	0	0.00	9.20	46.00												62.15		32.7
Dibenzofuran	µg/kg dry wt	44	18	0.41	1.40	26.00	1.60	7.46	17.00	3	0	0.00	3.00	28.00												145263.14		
Diethyl Phthalate	µg/kg dry wt	44	1	0.02	3.60	70.00	4.80	4.80	4.80	3	0	0.00	7.90	73.00												48882477.61		
Dimethyl Phthalate	µg/kg dry wt	44	0	0.00	1.90	36.00				3	0	0.00	4.10	38.00												100000000.00		
Di-*n*-butyl Phthalate	µg/kg dry wt	44	16	0.36	2.70	52.00	3.10	7.64	15.00	3	0	0.00	5.90	55.00												6110309.70		
Di-*n*-octyl Phthalate	µg/kg dry wt	44	0	0.00	1.30	24.00				3	0	0.00	5.00	25.00												2444123.88		
Fluoranthene	µg/kg dry wt	44	43	0.98	2.30	44.00	2.50	73.32	240.00	3	1	0.33	5.00	46.00	6.80	6.80	6.80									2293610.18	545400	514
Fluorene	µg/kg dry wt	44	18	0.41	1.80	34.00	2.10	6.91	27.00	3	0	0.00	3.90	36.00												2747106.60		25.3
Hexachlorobenzene	µg/kg dry wt	44	0	0.00	2.20	42.00				3	0	0.00	4.70	44.00												303.99		
Hexachlorobutadiene	µg/kg dry wt	44	0	0.00	1.50	28.00				3	0	0.00	3.20	30.00												6235.65		
Hexachlorocyclopentadiene	µg/kg dry wt	44	0	0.00	16.00	300.00				3	0	0.00	34.00	320.00												365487.50		
Hexachloroethane	µg/kg dry wt	44	0	0.00	2.30	44.00				3	0	0.00	5.00	46.00												34741.47		
Indeno(1,2,3-cd)pyrene	µg/kg dry wt	44	40	0.91	2.00	38.00	2.00	67.24	170.00	3	0	0.00	8.00	40.00												621.46	538900	382
Isophorone	µg/kg dry wt	44	0	0.00	1.70	32.00				3	0	0.00	3.60	34.00												511979.49		
Naphthalene	µg/kg dry wt	44	33	0.75	1.40	26.00	1.80	13.83	30.00	3	0	0.00	3.00	28.00												55916.06		55.8
N-Nitrosodi-*n*-propylamine	µg/kg dry wt	44	0	0.00	3.30	64.00				3	0	0.00	7.20	67.00												69.48		
N-Nitrosodiphenylamine	µg/kg dry wt	44	0	0.00	2.30	44.00				3	0	0.00	5.00	46.00												99261.33		
Pentachlorophenol	µg/kg dry wt	44	0	0.00	8.60	170.00				3	0	0.00	20.00	180.00												2978.99		
Phenanthrene	µg/kg dry wt	44	41	0.93	1.40	26.00	1.60	41.35	150.00	3	1	0.33	3.00	28.00	3.70	3.70	3.70										538800	237
Phenol	µg/kg dry wt	44	5	0.11	2.00	38.00	3.20	16.44	53.00	3	0	0.00	4.30	40.00												18330929.10		
Pyrene	µg/kg dry wt	44	44	1.00	1.40	26.00	2.30	86.48	220.00	3	2	0.67	3.00	28.00	11.00	13.00	15.00									2315951.12	549700	665
PCBs																												
Aroclor 1016	µg/kg dry wt	44	0	0.00	2.73	9.48				3	0	0.00	11.50	12.58												3933.08		
Aroclor 1016 MOD	µg/kg dry wt	44	0	0.00	2.73	9.48				3	0	0.00	11.50	12.58												3933.08		
Aroclor 1221	µg/kg dry wt	44	0	0.00	2.73	9.48				3	0	0.00	11.50	12.58														
Aroclor 1221 MOD	µg/kg dry wt	44	0	0.00	2.73	9.48				3	0	0.00	11.50	12.58														
Aroclor 1232	µg/kg dry wt	44	0	0.00	2.73	9.48				3	0	0.00	11.50	12.58														
Aroclor 1232 MOD	µg/kg dry wt	44	2	0.05	2.73	9.48	389.33	521.47	653.61	3	0	0.00	11.50	12.58														
Aroclor 1242	µg/kg dry wt	44	0	0.00	2.73	9.48				3	1	0.33	11.50	12.58	29.84	29.84	29.84											
Aroclor 1242 MOD	µg/kg dry wt	44	1	0.02	2.73	9.48	198.78	198.78	198.78	3	0	0.00	11.50	12.58														
Aroclor 1248	µg/kg dry wt	44	1	0.02	2.73	9.48	195.41	195.41	195.41	3	0	0.00	11.50	12.58														
Aroclor 1248 MOD	µg/kg dry wt	44	4	0.09	2.73	9.48	195.08	292.28	548.45	3	0	0.00	11.50	12.58														
Aroclor 1254	µg/kg dry wt	44	16	0.36	2.73	9.48	2.06	131.69	390.68	3	0	0.00	11.50	12.58												221.86		
Aroclor 1254 MOD	µg/kg dry wt	44	29	0.66	2.73	9.48	2.06	110.47	357.09	3	0	0.00	11.50	12.58												221.86		
Aroclor 1260	µg/kg dry wt	44	24	0.55	2.73	9.48	6.85	97.96	168.67	3	0	0.00	11.50	12.58														
Aroclor 1260 MOD	µg/kg dry wt	44	5	0.11	2.73	9.48	90.27	154.81	249.94	3	0	0.00	11.50	12.58														
Total PCBs (NOAA)	µg/kg dry wt	44	43	0.95	0.47	0.54	1.42	113.07	467.52	3	3	1.00			6.44	9.49	14.86									221.86		
Total PCBs (AROCLOR)	µg/kg dry wt	44	35	0.80	2.73	3.30	2.06	132.96	390.68	3	0	0.00	12.22	12.58												221.86		
Total PCBs (AROCLOR_MOD)	µg/kg dry wt	44	35	0.80	2.73	3.30	2.06	186.20	1452.00	3	0	0.00	11.50	12.58												221.86		
PESTICIDES																												
2,4-DDD	µg/kg dry wt	45	36	0.80	0.01	0.02	0.11	1.99	9.68	3	2	0.67	0.03	0.03	0.15	0.24	0.33											
2,4-DDE	µg/kg dry wt	45	5	0.11	0.02	0.04	0.05	0.13	0.25	3	0	0.00	0.05	0.05														
2,4-DDT	µg/kg dry wt	45	17	0.38	0.01	0.02	0.22	0.94	1.95	3	0	0.00	0.03	0.03														
4,4-DDD	µg/kg dry wt	45	39	0.87	0.03	0.38	0.01	4.49	11.98	3	3	1.00	0.06	0.06	2.42	20.29	48.72									2436.60		
4,4-DDE	µg/kg dry wt	45	41	0.91	0.01	0.02	0.02	2.19	8.33	3	3	1.00	0.03	0.03	0.94	1.53	2.09									1719.96		
4,4-DDT	µg/kg dry wt	45	33	0.73	0.01	0.02	0.02	1.54	7.01	3	3	1.00	0.02	0.02	0.20	0.25	0.33									1719.96		
Total DDDs	µg/kg dry wt	44	39	0.89					19.99	3	3	1.00					48.87											
Total DDEs	µg/kg dry wt	44	40	0.91					8.33	3	3	1.00					2.09											
Total DDTs	µg/kg dry wt	44	33	0.75					7.01	3	3	1.00					0.33											
Total DDx	µg/kg dry wt	44	43	0.98					28.32	3	3	1.00					51.29											
alpha-Chlordane	µg/kg dry wt	45	33	0.73	0.02	0.04	0.07	1.10	6.06	3	2	0.67	0.05	0.05	0.19	0.25	0.31											
a-BHC	µg/kg dry wt	45	0	0.00	0.06	0.10				3	0	0.00	0.13	0.14												90.22		
Aldrin	µg/kg dry wt	45	0	0.00	0.02	0.04				3	0	0.00	0.05	0.06												28.61		
beta-BHC	µg/kg dry wt	45	2	0.04	0.05	0.08	0.13	0.16	0.18	3	0	0.00	0.10	0.11												315.75		

Table 5-8. Summary Statistics for Wetland Surface Soil (0-1 ft bgs) (page 3 of 4)

Analyte	Unit	IR Site 2 Wetland								CCSP Wetland								Alameda PCDD/PCDF								U.S. EPA Region 9 Residential PRG[a]	Alameda Background[b]	San Francisco Bay Sediment Ambient[c]
		Number of Samples			Nondetects		Detects			Number of Samples			Nondetects		Detects			Number of Samples			Nondetects		Detects					
		Total	Detects	Frequency of Detect (%)	Min MDL	Max MDL	Minimum Detect	Mean Detect	Maximum Detect	Total	Detects	Frequency of Detect (%)	Min MDL	Max MDL	Minimum Detect	Mean Detect	Maximum Detect	Total	Detects	Frequency of Detect (%)	Min MDL	Max MDL	Minimum Detect	Mean Detect	Maximum Detect			
PESTICIDES (Continued)																												
cis-nonachlor	µg/kg dry wt	45	35	0.78	0.02	0.03	0.01	0.57	2.61	3	0	0.00	0.03	0.04														
delta-HCH	µg/kg dry wt	45	0	0.00	0.04	0.06				3	0	0.00	0.08	0.08														
Dieldrin	µg/kg dry wt	45	29	0.64	0.02	0.03	0.11	1.70	10.52	3	2	0.67	0.04	0.04	0.82	1.93	3.03									30.40		
Endosulfan I	µg/kg dry wt	45	0	0.00	0.03	0.06				3	0	0.00	0.07	0.08														
Endosulfan II	µg/kg dry wt	45	29	0.64	0.03	0.06	0.09	0.79	1.91	3	0	0.00	0.07	0.07														
Endosulfan sulfate	µg/kg dry wt	45	0	0.00	0.02	0.03				3	0	0.00	0.03	0.04														
Endrin	µg/kg dry wt	45	0	0.00	0.03	0.05				3	0	0.00	0.05	0.06												18330.93		
Endrin aldehyde	µg/kg dry wt	45	0	0.00	0.03	0.06				3	0	0.00	0.07	0.07														
Endrin ketone	µg/kg dry wt	45	0	0.00	0.02	0.04				3	0	0.00	0.05	0.05														
gamma-BHC (Lindane)	µg/kg dry wt	45	4	0.09	0.02	0.04	0.07	0.14	0.25	3	0	0.00	0.04	0.05												437.20		
gamma-Chlordane	µg/kg dry wt	45	30	0.67	0.01	0.02	0.10	1.60	6.63	3	1	0.33	0.03	0.03	0.18	0.18	0.18											
Heptachlor	µg/kg dry wt	45	0	0.00	0.02	0.04				3	1	0.33	0.04	0.05	2.97	2.97	2.97									108.08		
Heptachlor epoxide	µg/kg dry wt	45	1	0.02	0.02	0.04	0.17	0.17	0.17	3	1	0.33	0.05	0.05	1.28	1.28	1.28									53.45		
Methoxychlor	µg/kg dry wt	45	3	0.07	0.57	0.99	0.09	0.62	1.65	3	0	0.00	1.20	1.32												305515.49		
Toxaphene	µg/kg dry wt	45	0	0.00	2.73	9.49				3	0	0.00	11.51	12.59												442.16		
trans-Nonachlor	µg/kg dry wt	45	35	0.78	0.02	0.03	0.01	0.76	4.80	3	1	0.33	0.03	0.04	3.23	3.23	3.23											
VOCs																												
1,1,1-Trichloroethane (TCA)	µg/kg dry wt	44	0	0.00	0.60	2.20				3	0	0.00	1.80	3.00												1200000.00		
1,1,2,2-Tetrachloroethane	µg/kg dry wt	44	0	0.00	0.76	2.80				3	0	0.00	2.30	3.90												407.62		
1,1,2-trichloro-1,2,2-trifluoroethane	µg/kg dry wt	44	0	0.00	0.77	2.80				3	0	0.00	2.30	3.90														
1,1,2-Trichloroethane	µg/kg dry wt	44	0	0.00	0.72	2.60				3	0	0.00	2.10	3.70												728.63		
1,1-Dichloroethane	µg/kg dry wt	44	0	0.00	0.81	3.00				3	0	0.00	2.40	4.20												506396.83		
1,1-Dichloroethene	µg/kg dry wt	44	0	0.00	0.72	2.70				3	0	0.00	2.20	3.80												123530.68		
1,2,3-Trichlorobenzene	µg/kg dry wt	44	0	0.00	0.94	3.40				3	0	0.00	2.80	4.80														
1,2,4-Trichlorobenzene	µg/kg dry wt	44	0	0.00	0.80	2.90				3	0	0.00	2.40	4.10												62159.76		
1,2-Dibromo-3-chloropropane	µg/kg dry wt	44	0	0.00	0.88	3.20				3	0	0.00	2.60	4.50												460.00		
1,2-Dibromoethane (EDB)	µg/kg dry wt	44	0	0.00	0.82	3.00				3	0	0.00	2.40	4.20												32.00		
1,2-Dichlorobenzene	µg/kg dry wt	44	0	0.00	0.68	2.50				3	0	0.00	2.00	3.50												600000.00		
1,2-Dichloroethane (EDC)	µg/kg dry wt	44	0	0.00	0.70	2.50				3	0	0.00	2.10	3.60												277.73		
1,2-Dichloropropane	µg/kg dry wt	44	0	0.00	0.75	2.70				3	0	0.00	2.20	3.80												342.16		
1,3-Dichlorobenzene	µg/kg dry wt	44	0	0.00	0.74	2.70				3	0	0.00	2.20	3.80												531349.38		
1,4-Dichlorobenzene	µg/kg dry wt	44	0	0.00	0.85	3.10				3	0	0.00	2.50	4.40												3446.54		
2-Butanone (MEK)	µg/kg dry wt	44	1	0.02	8.70	45.00	420.00	420.00	420.00	3	0	0.00	37.00	64.00												22311197.77		
2-Hexanone	µg/kg dry wt	44	0	0.00	6.40	23.00				3	0	0.00	19.00	33.00														
4-Methyl-2-pentanone (MIBK)	µg/kg dry wt	44	0	0.00	5.70	21.00				3	0	0.00	17.00	29.00												5280885.75		
Acetone	µg/kg dry wt	44	3	0.07	11.00	38.00	14.00	19.67	23.00	3	0	0.00	31.00	53.00												14126570.63		
Benzene	µg/kg dry wt	44	0	0.00	0.82	3.00				3	0	0.00	2.40	4.20												643.15		
Bromochloromethane	µg/kg dry wt	44	0	0.00	0.54	3.70				3	0	0.00	3.00	5.20														
Bromodichloromethane	µg/kg dry wt	44	0	0.00	0.55	2.00				3	0	0.00	1.60	2.80												824.28		
Bromoform	µg/kg dry wt	44	0	0.00	0.68	2.90				3	0	0.00	2.40	4.10												61568.89		
Bromomethane	µg/kg dry wt	44	0	0.00	0.83	3.00				3	0	0.00	2.50	4.30												3896.56		
Carbon Disulfide	µg/kg dry wt	44	0	0.00	1.60	5.60				3	0	0.00	4.60	7.90												355340.37		
Carbon Tetrachloride	µg/kg dry wt	44	0	0.00	0.63	2.30				3	0	0.00	1.90	3.20												251.25		
Chlorobenzene	µg/kg dry wt	44	1	0.02	0.73	2.70	4.70	4.70	4.70	3	0	0.00	2.20	3.70												150657.86		
Chloroethane	µg/kg dry wt	44	0	0.00	0.81	3.00				3	0	0.00	2.40	4.20												3025.82		
Chloroform	µg/kg dry wt	44	0	0.00	0.60	2.20				3	0	0.00	1.80	3.00												220.79		
Chloromethane	µg/kg dry wt	44	0	0.00	1.10	3.70				3	0	0.00	3.00	5.30												46853.46		
cis-1,2-Dichloroethene	µg/kg dry wt	44	0	0.00	0.86	3.10				3	0	0.00	2.50	4.40												42941.90		
cis-1,3-Dichloropropene	µg/kg dry wt	44	0	0.00	0.79	2.90				3	0	0.00	2.30	4.00														
Cyclohexane	µg/kg dry wt	44	3	0.07	0.70	2.50	1.60	3.60	6.90	3	0	0.00	2.10	3.60												140000.00		
Dibromochloromethane	µg/kg dry wt	44	0	0.00	0.63	2.30				3	0	0.00	1.90	3.20												1108.86		
Dichlorodifluoromethane	µg/kg dry wt	44	0	0.00	0.73	2.70				3	0	0.00	2.20	3.70												93879.10		
Ethylbenzene	µg/kg dry wt	44	0	0.00	0.60	2.20				3	0	0.00	1.80	3.00												395000.00		
Isopropyl ether	µg/kg dry wt	44	0	0.00	0.26	1.30				3	0	0.00	1.10	1.80														
Isopropylbenzene	µg/kg dry wt	44	0	0.00	0.71	2.60				3	0	0.00	2.10	3.60												157027.37		
m,p-Xylenes	µg/kg dry wt	44	0	0.00	1.60	5.60				3	0	0.00	4.60	7.90												270630.54		
Methyl Acetate	µg/kg dry wt	44	0	0.00	0.76	2.80				3	0	0.00	2.30	3.90												22086744.01		
Methyl tert-Butyl Ether (MTBE)	µg/kg dry wt	44	6	0.14	0.67	2.50	1.10	1.85	3.80	3	0	0.00	2.00	3.50												9165464.55		
Methylcyclohexane	µg/kg dry wt	44	5	0.11	0.74	2.70	1.10	4.98	14.00	3	0	0.00	2.20	3.80												2591055.17		
Methylene Chloride	µg/kg dry wt	44	19	0.43	1.00	9.40	1.20	16.98	73.00	3	0	0.00	7.60	14.00												9106.99		