Tables

TABLE 1

Sample Summary Information

Sample ID	Sample Date	Sample Time	Sample Depth	Matrix	Sample Collection Method	SVOCs	VOCs	NW-HCID	NWTPH-Gx	NWTPH-Dx	PCBs	Chlorinated Pesticides	Metals
SB-1-9	09/27/07	12:30	9-11 ft	Soil	Direct-Push	X		X	O	O	X	X	X
SB-2-1	10/01/07	12:10	1.0-1.2 ft	Soil	Hand-Auger	X		X	O	O	X	X	X
SB-2-9	09/28/07	8:10	9-11 ft	Soil	Direct-Push	X		X	O	O	X	X	X
SB-3-7	09/27/07	14:07	7-9 ft	Soil	Direct-Push	X		X	O	O	X	X	X
SB-3-13.5	09/27/07	14:50	13.5-15.5 ft	Soil	Direct-Push	X		X	O	O	X	X	X
SB-4-8	09/27/07	10:25	8-10 ft	Soil	Direct-Push	X		X	O	O	X	X	X
SB-5-8	09/27/07	11:25	8-10 ft	Soil	Direct-Push	X		X	O	O	X	X	X
SB-6-8	09/28/07	9:30	8-10 ft	Soil	Direct-Push	X		X	O	O	X	X	X
SB-7-9	09/28/07	10:20	9-11 ft	Soil	Direct-Push	X		X	O	O	X	X	X
SB-8-9	09/27/07	9:55	9-11 ft	Soil	Direct-Push	X		X	O	O	X	X	X
SB-9-10	09/27/07	8:55	10-12 ft	Soil	Direct-Push	X		X	O	O	X	X	X
SB-10-14	09/28/07	11:25	14-16 ft	Soil	Direct-Push	X		X	O	O	X	X	X
SB-11-2.5	09/28/07	12:50	2.4-2.6 ft	Soil	Hand-Auger	X	X	X	O	O	X	X	X
SB-12-1.5	09/28/07	15:00	1.3-1.5 ft	Soil	Hand-Auger	X	X	X	O	O	X	X	X
SB-13-1	10/01/07	8:50	1.0-1.2 ft	Soil	Hand-Auger	X		X	O	O	X	X	X
SB-13-3.5	10/01/07	9:05	3.5-3.8 ft	Soil	Hand-Auger	X		X	O	O	X	X	X
SB-13-7	10/01/07	9:25	7.0-7.3 ft	Soil	Hand-Auger	X		X	O	O	X	X	X
SB-14-3	10/01/07	8:45	3.0-3.3 ft	Soil	Hand-Auger	X		X	O	O	X	X	X
SB-14-7.5	10/01/07	10:15	7.5-7.8 ft	Soil	Hand-Auger	X	X	X	O	O	X	X	X
SB-15-3.5	10/01/07	12:40	3.5-3.8 ft	Soil	Hand-Auger	X	X	X	O	O	X	X	X
SB-16-3.5	10/01/07	14:20	3.5-3.8 ft	Soil	Hand-Auger	X	X	X	O	O	X	X	X
Trans-A-Top	10/08/07	12:00	0-4 inch	Bank Soil	Trowel/Scoop	X		X	O	O	X	X	X
Trans-A-Bot	10/08/07	10:30	0-4 inch	Bank Soil	Trowel/Scoop	X		X	O	O	X	X	X
Trans-A-Sed	03/12/08	15:30	0-4 inch	Bank Sed	Trowel/Scoop	X		X	O	O	X	X	X
Trans-B-Top	10/08/07	12:30	0-4 inch	Bank Soil	Trowel/Scoop	X		X	O	O	X	X	X
Trans-B-Bot	10/08/07	10:45	0-4 inch	Bank Soil	Trowel/Scoop	X		X	O	O	X	X	X
Trans-B-Sed	03/12/08	16:00	0-4 inch	Bank Sed	Trowel/Scoop	X		X	O	O	X	X	X
MW-1-100907	10/09/07	12:05	--	Water	Peristaltic Pump	X	X	X	O	O	X	X	X
MW-2-100907	10/09/07	10:10	--	Water	Peristaltic Pump	X	X	X	O	O	X	X	X
MW-3-100807	10/08/07	10:30	--	Water	Peristaltic Pump	X	X	X	O	O	X	X	X
MW-3-FD-100807	10/08/07	11:10	--	Water	Peristaltic Pump	X	X	X	O	O	X	X	X
TB-1	10/08/07	8:00	--	Water	(Trip Blank)		X						
ER-1	10/01/07	14:03	--	Water	(Equip Rinse)						X		
ER-2	10/09/07	12:15	--	Water	(Equip Rinse)						X		
MW-1-031208	03/12/08	16:00	--	Water	Peristaltic Pump		X					X	X
MW-2-031208	03/12/08	16:30	--	Water	Peristaltic Pump		X					X	X
MW-3-031208	03/12/08	15:30	--	Water	Peristaltic Pump		X					X	X
TB-2	03/12/08	14:00	--	Water	(Trip Blank)		X						

X: Sample was analyzed for constituent
O: Sample was analyzed for constituent only if pertinent hydrocarbon range was detected by HCID analysis
SVOCs: Semi-Volatile Organic Compounds by EPA Method 8270
VOCs: Volatile Organic Compounds by EPA Method 8260
NWTPH-Gx: Total Petroleum Hydrocarbons as Gasoline-Range by Ecology Method NWTPH-Gx
NWTPH-Dx: Total Petroleum Hydrocarbons as Diesel-Range by Ecology Method NWTPH-Dx
NW-HCID: Hydrocarbon Identification by Ecology Method NW-HCID
Chlorinated Pesticides by EPA Method 8081A
PCBs: Polychlorinated Biphenyls by EPA Method 8082
Total Metals: As, Cd, Cr, Cu, Pb, Ag, Zn by EPA Method 6020; Hg by EPA Method 7470
Note: Groundwater samples analyzed for metals in October were submitted as both field-filtered and unfiltered; groundwater samples analyzed for metals in March were submitted as only unfiltered.

TABLE 2

Water Level Measurements and Well Elevations

	MW-1			MW-2			MW-3		
Date	Time	DTW (ft TOC)	GWE (ft MLLW)	Time	DTW (ft TOC)	GWE (ft MLLW)	Time	DTW (ft TOC)	GWE (ft MLLW)
10/01/07	7:55	11.82	5.99	7:55	9.55	7.67	7:55	8.95	8.34
10/01/07	8:37	10.74	7.07	8:37	8.31	8.91	8:37	7.81	9.48
10/01/07	9:10	9.95	7.86	9:10	7.48	9.74	9:10	7.13	10.16
10/01/07	9:50	8.77	9.04	9:50	6.75	10.47	9:50	6.56	10.73
10/01/07	10:35	8.23	9.58	10:35	6.60	10.62	10:35	6.50	10.79
10/01/07	11:55	8.00	9.81	11:55	7.00	10.22	11:55	7.03	10.26
10/01/07	12:45	8.49	9.32	12:45	7.72	9.50	12:45	7.78	9.51
10/01/07	13:45	9.23	8.58	13:45	8.67	8.55	13:45	8.77	8.52
10/01/07	15:03	9.79	8.02	15:03	9.37	7.85	15:03	9.51	7.78
10/09/07	11:20	12.38	5.43	9:28	11.96	5.26	9:03	13.30	3.99
03/12/08	14:30	13.32	4.49	14:30	13.75	3.47	14:30	14.26	3.03

Well ID	TOC Elevation (ft MSL)	TOC Elevation (ft MLLW)
MW-1	15.43	17.81
MW-2	14.84	17.22
MW-3	14.91	17.29

TOC = Top of casing (surveyed PVC well casing)
DTW = Depth to water below TOC
GWE = Groundwater elevation
MSL = Mean Sea Level
MLLW = Mean Lower Low Water

TABLE 3
Soil Sample Results Summary

Group	Parameter	Soil Samples Outside Disposal Pond Area															Soil Samples Inside Disposal Pond Area						MTCA Soil Cleanup Levels		Sediment Protection Screening Levels (for soil)
		SB-1-9	SB-2-1	SB-2-9	SB-3-7	SB-3-13.5	SB-4-8	SB-5-8	SB-6-8	SB-7-9	SB-8-9	SB-9-10	SB-10-14	SB-13-1	SB-13-3.5	SB-13-7	SB-11-2.5	SB-12-1.5	SB-14-3	SB-14-7.5	SB-15-3.5	SB-16-3.5	Method A (unrestricted land use)	Method B	
Metals	Arsenic	1.5	1.5	2.2	1.0	1.7	4.2	8.7	1.9	1.4	2.1	2.0	1.8	1.7	1.3	1.2	6.7	7.2	2.3	1.6	4.5	9.4	20	0.67	590
	Cadmium	0.037	0.087	0.063	0.281	0.029	0.097	0.084	0.021	0.025	0.061	0.029	0.141	0.118	0.135	0.577	**31.4**	**14.6**	0.501	0.159	**4.97**	**23.5**	2	80	1.7
	Chromium	7.98	9.00	9.47	23.1	8.40	11.8	13.4	7.51	6.37	10.6	7.66	8.6	6.08	6.04	21.5	**465**	212	24.2	22.1	192	**415**	19	240	270
	Copper	9.74	8.90	**56.0**	10.8	7.58	19.9	21.7	7.19	7.38	13.9	10.6	10.8	8.71	8.02	5.43	**198**	**111**	9.72	9.88	**69.6**	**132**		3000	39
	Lead	1.29 J	4.53	13.7 J	31.8 J	2.23 J	3.32 J	4.39 J	1.49 J	2.13 J	2.09 J	1.46 J	16.3 J	2.05	1.18	33.9	**3100 J**	**1000 J**	**198**	18.2	**1030**	**3180**	250		67
	Mercury	0.007	0.011	0.009	0.015	0.01	**0.048**	**0.064**	0.004	0.005	0.028	0.008	0.007	0.013	0.006	0.021	**29.5**	**3.96**	**0.327**	**0.274**	**5.81**	**25.2**	2	24	0.03
	Silver	0.06	0.052	0.066	0.07	0.055	0.108	0.145	0.055	0.049	0.091	0.064	0.116	0.056	0.038	0.057	0.299	0.191	0.064	0.058	0.136	0.230		400	0.61
	Zinc	19.1	20.3	29.3	33.0	15.0	26.3	28.9	15.4	14.8	22.6	17.6	28.7	**42.1**	30.6	**122**	**1480**	**649**	**118**	26.4	**515**	**1510**		24000	38
PCBs	PCB-aroclor 1248	0.0099 U	0.0099 U	0.01 U	0.0099 U	0.0099 U	0.01 U	0.0099 U	0.01 U	0.01 U	0.01 U	0.0099 U	0.0099 U	0.0099 U	0.01 U	1 U	1 U	0.099 U	0.1 U	0.099 U	1 U	1 U		0.5	0.065
	PCB-aroclor 1254	0.0099 U	0.0099 U	0.01 U	**0.092**	0.039	0.01 U	0.0099 U	0.023	0.0059 J	0.01 U	0.0099 U	0.022	0.0099 U	0.01 U	**13**	**29**	**4.9**	**5.5**	**7.0**	**12**	**36**		1.6	0.065
	PCB-aroclor 1260	0.0099 U	0.0099 U	0.021	**0.088**	0.0099 U	0.01 U	0.0099 U	0.01 U	0.01 U	0.01 U	0.0099 U	0.024	0.0084	0.01 U	1 U	1.0 U	0.099 U	**5.1**	**4.9**	1 U	1 U		--	0.065
	Total PCBs	U	U	0.021	**0.180**	0.039	U	U	0.023	0.0059	U	U	0.046	0.0084	U	**13**	**29**	**4.9**	**10.6**	**11.9**	**12**	**36**	1	0.5	0.065
Pesticides	2,4'-DDD	0.00099 U	0.00099 U	0.0023 J	0.0019 U	0.00099 U	0.001 U	0.00099 U	0.001 U	0.001 U	0.001 U	0.00099 U	0.00099 U	0.00099 U	0.001 U	0.28 U	0.61 U	0.093 U	0.5 U	0.098 U	0.28 U	0.67 U		4.2	
	2,4'-DDT	0.00099 U	0.00051	0.0012 J	0.00099 U	0.00099 U	0.001 U	0.00099 U	0.0011	0.0017	0.001 U	0.00099 U	0.0019	0.00073 J	0.001 U	1.3	3.4 J	0.37	0.77	0.9	1.3	3.6 J	3	2.9	
	4,4'-DDD	0.00099 U	0.00099 U	0.0013	0.00035 J	0.00099 U	0.00022	0.00099 U	0.001 U	0.00026	0.001 U	0.00099 U	0.00099 U	0.00099 U	0.001 U	0.1 U	0.8	0.051	0.58	0.13	0.2	0.53		4.2	
	4,4'-DDE	0.00099 U	0.00099 U	0.00045	0.0029 J	0.00099 U	0.001 U	0.00099 U	0.0016	0.0021	0.00049	0.00099 U	0.00099 U	0.00099 U	0.001 U	0.1 U	0.26 U	0.02 U	0.37 J	0.39 J	0.18 U	0.3 U		2.9	
	4,4'-DDT	0.00099 U	0.00087 J	0.0018	0.01	0.00099 U	0.001 U	0.00099 U	0.0018	0.0033	0.001 U	0.00099 U	0.0036	0.0013 J	0.001 U	1.6 J	3.2 U	0.6	1.1 J	1.2 J	1.5 J	4 J	3	2.9	
	Aldrin	0.00099 U	0.00099 U	0.001 U	0.0061	0.00099 U	0.001 U	0.00099 U	0.001 U	0.002	0.001 U	0.00099 U	0.00099 U	0.00099 U	0.001 U	0.1 U	3.5	0.019 U	0.24	9.4	0.76	1.9		0.059	
	Dieldrin	0.00099 U	0.00099 U	0.00058 J	0.027	0.00099 U	0.001 U	0.00099 U	0.001 U	0.0017	0.001 U	0.00099 U	0.0017 U	0.0021	0.001 U	0.12 U	0.14 U	0.035 U	0.92	0.071 U	0.1 U	0.1 U		0.063	
	Heptachlor	0.00099 U	0.00099 U	0.001 U	0.00099 U	0.00099 U	0.001 U	0.00056	0.001 U	0.001 U	0.001 U	0.00099 U	0.00099 U	0.00099 U	0.001 U	0.1 U	0.1 U	0.019 U	0.01 U	0.0099 U	0.1 U	0.1 U		0.22	
SVOCs	Acenaphthene	0.01 U	0.009 U	0.01 U	0.01 U	0.0099 U	0.01 U	0.01 U	0.0098 U	0.0099 U	0.0099 U	0.0098 U	0.01 U	0.0093 U	0.0098 U	0.19 U	**0.25**	0.099 U	0.48 U	**0.51**	0.99 U	0.92 U		4800	0.06
	Anthracene	0.01 U	0.009 U	0.01 U	0.01 U	0.0099 U	0.01 U	0.01 U	0.0098 U	0.0099 U	0.0099 U	0.0098 U	0.01 U	0.0093 U	0.0098 U	0.19 U	0.33	0.065	0.48 U	1.2	0.99 U	0.92 U		24000	1.2
	Benzo(a)anthracene	0.01 U	0.009 U	0.0052	0.01 U	0.0099 U	0.0063	0.0048	0.0098 U	0.0099 U	0.0099 U	0.0098 U	0.0022	0.0093 U	0.0098 U	0.19 U	0.24	0.074	0.48 U	1 U	0.99 U	0.22			0.27
	Benzo(a)pyrene	0.01 U	0.009 U	0.006	0.01 U	0.0099 U	0.0075	0.0061	0.0098 U	0.0099 U	0.0099 U	0.0098 U	0.0044	0.0093 U	0.0098 U	0.19 U	0.25 U	0.099 U	0.48 U	1 U	0.99 U	0.92 U	0.1	0.14	0.21
	Benzo(b)fluoranthene	0.01 U	0.009 U	0.010	0.01 U	0.0099 U	0.0079	0.0072	0.0098 U	0.0099 U	0.0099 U	0.0098 U	0.0084	0.0093 U	0.0098 U	0.19 U	0.25 U	0.13	0.48 U	1 U	0.99 U	0.92 U			0.45
	Benzo(k)fluoranthene	0.01 U	0.009 U	0.0036	0.01 U	0.0099 U	0.0023	0.01 U	0.0098 U	0.0099 U	0.0099 U	0.0098 U	0.0019	0.0093 U	0.0098 U	0.19 U	0.25 U	0.099 U	0.48 U	1 U	0.99 U	0.92 U			0.45
	Benzo(ghi)perylene	0.01 U	0.009 U	0.0064	0.01 U	0.0099 U	0.0065	0.0058	0.0098 U	0.0099 U	0.0099 U	0.0098 U	0.0058	0.0093 U	0.0098 U	0.19 U	0.25 U	**0.13**	0.48 U	1 U	0.99 U	0.92 U			0.078
	Benzoic Acid	0.2 U	0.18 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	3.8 U	4.9 U	2.0 U	9.6 U	20 U	20 U	19 U		320000	0.68
	Benzyl Alcohol	0.02 U	0.018 U	0.0077	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.0041	0.02 U	0.02 U	0.019 U	0.02 U	0.38 U	0.49 U	0.2 U	0.96 U	2 U	2 U	1.9 U		24000	0.07
	Bis(2-Ethylhexyl) Phthalate	0.0095 U	0.09 U	0.035 U	0.014 U	0.012 U	0.1 U	0.1 U	0.018 U	0.099 U	0.012 U	0.011 U	0.021 U	0.093 U	0.098 U	1.9 U	3.7 U	1.1 U	4.8 U	**2.0**	**2.8**	**7.0**		71	0.078
	Butylbenzylphthalate	0.01 U	0.009 U	0.0052	0.01 U	0.0099 U	0.01 U	0.01 U	0.0098 U	0.0099 U	0.0099 U	0.0098 U	0.01 U	0.0093 U	0.0098 U	0.19 U	**2.2**	0.099 U	0.48 U	1 U	0.99 U	0.92 U		16000	0.066
	Chrysene	0.01 U	0.009 U	0.0071	0.01 U	0.0099 U	0.0071	0.0064	0.0098 U	0.0099 U	0.0099 U	0.0098 U	0.0063	0.0093 U	0.0098 U	0.19 U	**0.49**	0.17	0.48 U	**0.53**	0.99 U	0.39			0.46
	Dibenzo(a,h)anthracene	0.01 U	0.009 U	0.0022	0.01 U	0.0099 U	0.01 U	0.01 U	0.0098 U	0.0099 U	0.0099 U	0.0098 U	0.01 U	0.0093 U	0.0098 U	0.19 U	0.25 U	0.099 U	0.48 U	1 U	0.99 U	0.92 U			0.033
	Dibenzofuran	0.01 U	0.009 U	0.01 U	0.01 U	0.0099 U	0.01 U	0.01 U	0.0098 U	0.0099 U	0.0099 U	0.0098 U	0.01 U	0.0093 U	0.0098 U	0.19 U	0.25 U	0.099 U	0.48 U	**0.6**	0.99 U	0.92 U		160	0.059
	1,2-Dichlorobenzene	0.01 U	0.009 U	0.01 U	0.01 U	0.0099 U	0.01 U	0.01 U	0.0098 U	0.0099 U	0.0099 U	0.0098 U	0.01 U	0.0093 U	0.0098 U	0.19 U	**0.11**	0.099 U	0.48 U	1 U	0.99 U	0.92 U		7200	0.0038
	Dimethylphthalate	0.01 U	0.009 U	0.026	0.01 U	0.0099 U	0.01 U	0.01 U	0.0098 U	0.0099 U	0.0099 U	0.0098 U	0.0067	0.0093 U	0.0098 U	0.19 U	0.25 U	**0.23**	0.48 U	1 U	0.99 U	0.92 U		80000	0.094
	Di-N-Butylphthalate	0.011 U	0.018 U	0.017 U	0.016 U	0.019 U	0.019 U	0.02 U	0.011 U	0.0095 U	0.012 U	0.02 U	0.11 U	0.019 U	0.02 U	0.38 U	0.8 U	0.42 U	0.96 U	2 U	1.3	1.1			2
	Di-N-Octyl Phthalate	0.01 U	0.009 U	0.01 U	0.01 U	0.0099 U	0.01 U	0.01 U	0.0098 U	0.0099 U	0.0099 U	0.0098 U	0.01 U	0.0093 U	0.0098 U	0.19 U	0.25 U	0.099 U	0.48 U	1 U	0.99 U	0.92 U		1600	4.5
	Fluoranthene	0.01 U	0.009 U	0.0091	0.0046	0.003	0.013	0.011	0.0098 U	0.0099 U	0.0024	0.0021	0.003	0.0093 U	0.0098 U	0.19 U	0.46	0.12	0.48 U	0.88	0.3	0.5		3200	1.2
	Fluorene	0.01 U	0.009 U	0.01 U	0.01 U	0.0099 U	0.01 U	0.01 U	0.0098 U	0.0099 U	0.0099 U	0.0098 U	0.01 U	0.0093 U	0.0098 U	0.19 U	0.25 U	0.064	0.48 U	**1.0**	**0.39**	**0.67**		3200	0.081
	Indeno(1,2,3-cd)pyrene	0.01 U	0.009 U	0.006	0.01 U	0.0099 U	0.0061	0.0066	0.0098 U	0.0099 U	0.0099 U	0.0098 U	0.0057	0.0093 U	0.0098 U	0.19 U	0.25 U	**0.10**	0.48 U	1 U	0.99 U	0.92 U			0.088
	2-Methylnaphthalene	0.01 U	0.009 U	0.01 U	0.01 U	0.0099 U	0.01 U	0.01 U	0.0098 U	0.0099 U	0.0099 U	0.0098 U	0.01 U	0.0093 U	0.0098 U	0.19 U	**2.0**	**0.26**	0.48 U	**4.5**	**1.1**	**3.0**	5	320	0.073
	2-Methylphenol	0.01 U	0.01 U	0.25 U	0.099 U	0.0093 U	0.0098 U	0.19 U	0.48 U	1 U	0.99 U	0.92 U	0.009 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0099 U	0.0098 U	0.0099 U	0.0099 U	0.0098 U		4000	0.0052
	4-Methylphenol	0.01 U	0.009 U	0.01 U	0.01 U	0.0099 U	0.0022	0.01 U	0.0098 U	0.0099 U	0.0099 U	0.0098 U	0.01 U	0.0093 U	0.0098 U	0.19 U	0.25 U	0.099 U	0.48 U	1 U	0.99 U	0.92 U		--	0.056
	Naphthalene	0.01 U	0.009 U	0.01 U	0.0037	0.0099 U	0.01 U	0.01 U	0.0098 U	0.0099 U	0.0099 U	0.0098 U	0.01 U	0.0093 U	0.0098 U	0.19 U	**1.9**	**0.36**	0.48 U	**0.51**	**0.36**	**1.7**	5	1600	0.2
	Pentachlorophenol	0.1 U	0.09 U	**0.041**	0.028	0.099 U	0.1 U	0.1 U	0.098 U	0.099 U	0.099 U	0.098 U	**0.079**	0.093 U	0.098 U	1.9 U	**2.3**	**2.8**	4.8 U	10 U	9.9 U	9.2 U		8.3	0.037
	Phenanthrene	0.01 U	0.009 U	0.0029	0.0081	0.0038	0.0062	0.0054	0.0025	0.0099 U	0.0031	0.0024	0.0024	0.0093 U	0.0098 U	0.19 U	**1.3**	0.16	0.48 U	**2.4**	**0.98**	**1.4**		--	0.49
	Phenol	0.031 U	0.03 U	0.02 U	0.026 U	0.031 U	0.035 U	0.045 U	0.021 U	0.016 U	0.024 U	0.021 U	0.014 U	0.03 U	0.032 U	0.57 U	0.74 U	0.083 U	1.5 U	3 U	3 U	2.8 U		48000	0.12
	Pyrene	0.01 U	0.009 U	0.0083	0.0051	0.0033	0.017	0.014	0.0098 U	0.0099 U	0.0025	0.0026	0.0043	0.0093 U	0.0098 U	0.19 U	0.82	0.17	0.48 U	0.99	0.5	0.81		2400	1.4
	Total cPAHs	U	U	0.0088	U	U	0.0098	0.0080	U	U	U	U	0.0063	U	U	U	0.029	0.032	U	0.005	U	0.026	0.1*	0.14*	
TPH	Gasoline Range Organics															1.6 U	2000 U^	100 U^		350 J	150 J	200^	30		
	Diesel Range Organics							23	3.7					1.8 U		950 J	9600 J	1300 J	2100 J	3000 J	4100 J	12000 J	2000		
	Residual Range Organics							220 J	21					6.5 U		4700 J	26000 J	3700 J	8200 J	8900 J	10000 J	27000 J	2000		
VOCs	Acetone																0.93 U	0.048		0.014 U	0.044 J	0.58 UJ		8000	
	Benzene																0.072	0.0041 U		0.0063 U	0.0075 U	0.078	0.03	18	
	2-Butanone																0.71	0.012		0.025 U	0.0061 J	0.62		48000	
	n-Butylbenzene																0.96	0.017 U		0.025 U	0.03 U	2.0		--	
	Sec-Butylbenzene																0.54	0.017 U		0.025 U	0.03 U	1.2		--	
	Carbon Disulfide																0.071 U	0.00012		0.0063 U	0.00067 J	0.068 U		8000	
	Chlorobenzene																0.071 U	0.0041 U		0.0063 U	0.0075 U	0.046		1600	
	1,2-Dichlorobenzene																**0.24**	0.0041 U		0.0063 U	0.0075 U	**0.31**		7200	0.0038
	1,4-Dichlorobenzene																**0.038**	0.0041 U		0.0063 U	0.0075 U	**0.038**		42	0.015
	1,1-Dichloroethane																0.071 U	0.00031		0.0063 U	0.0075 U	0.068 U		8000	
	Cis-1,2-Dichloroethene																8.9	0.0078		0.0063 U	0.00054 J	11		800	
	Trans-1,2-Dichloroethene																0.21	0.0041 U		0.0063 U	0.0075 U	0.098		1600	
	Ethylbenzene																4.1	0.00023		0.0063 U	0.0078 J	9.3	6	8000	
	Isopropylbenzene (Cumene)																0.56	0.017 U		0.025 U	0.01 J	1.7		8000	
	p-Isopropyltoluene																1.2	0.017 U		0.025 U	0.039 J	2.6		--	
	4-Methyl-2-Pentanone																1.4	0.0028		0.025 U	0.03 U	0.66 J		6400	
	Methylene Chloride																0.034	0.00044 U		0.001 U	0.00097 UJ	0.27 U	0.02	130	
	Naphthalene																2.5	0.017 U		0.025 U	0.012 J	2.4	5	1600	
	n-Propylbenzene																0.67	0.017 U		0.025 U	0.03 U	1.8		--	
	Styrene																0.037	0.0041 U		0.0063 U	0.0075 U	0.068 U		33	
	Tert-Butylbenzene																0.042	0.017 U		0.025 U	0.03 U	0.087		--	
	Tetrachloroethene																0.16	0.0015		0.002	0.00073 J	0.17	0.05	1.9	
	Toluene																4.1	0.0017		0.00089 J	0.0023 J	7.2	7	6400	
	Trichloroethene																0.17	0.0005		0.0063 U	0.0075 U	0.15	0.03	2.5	
	1,2,4-Trimethylbenzene																10	0.00023		0.025 U	0.03 U	17		4000	
	1,3,5-Trimethylbenzene																3.3	0.017 U		0.025 U	0.058 J	6.6		4000	
	Vinyl Chloride																0.09	0.0014		0.0063 U	0.0027 J	0.87		0.67	
	m,p-Xylene																21	0.0013		0.0063 U	0.0046 J	44	9	16000	
	o-Xylene																14	0.00049		0.0063 U	0.0013 J	24	9	16000	

All results in mg/kg.
Table includes all parameters detected in soil during this study.
Blank cells indicate parameter not analyzed: For TPH, this was because HCID did not detect petroleum hydrocarbons. For VOCs, this was because field screening did not suggest presence of VOCs.
Gray shaded cells are data that exceed MTCA Method A or Method B soil cleanup levels.

Bold text are data that exceed Sediment Protection screening levels.
Bold text in gray shaded cells are data that exceed both Screening levels and MTCA Method A or Method B cleanup levels.
U = Parameter not detected at the stated reporting level
J = Estimated concentration ^ = HCID gasoline-range concentration

For MTCA Method B, the lower of the two values for carcinogenic and non-carcinogenic risk was used.
* For carcinogenic PAHs, value applies to benzo(a)pyrene; total cPAHs must meet this value using toxicity equivalency method.
Sediment protection screening levels shown were developed for LDW Slip 4 site and were based on SMS CSL values and assume saturated soil conditions.

TABLE 4
Soil/Sediment Sample Results Exceedance Summary

Group	Parameter	Maximum Exceedances of Screening Levels				Soil Screening			Sediment Screening	
						MTCA Soil Cleanup Levels		Sediment Protection Screening Levels (for soil)	SMS	
		Soil Samples Outside Disposal Pond Area	Soil Samples Inside Disposal Pond Area	River Bank Soil Samples	Intertidal Sediment Samples	Method A (unrestricted land use)	Method B		SQS	CSL
Metals	Arsenic	**B: 13x**	**B: 14x**	**B: 16x**		20	0.67	590	57	93
	Cadmium		**A: 16x** **S: 18x**			2	80	1.7	5.1	6.7
	Chromium	A: 1.2x	**A: 24x** B: 1.9x S: 1.7x	A: 1.2x		19	240	270	260	270
	Copper	S: 1.4x	S: 5.1x	**S: 26x**			3000	39	390	390
	Lead		**A: 13x** **S: 47x**	S: 1.8x		250		67	450	530
	Mercury	S: 2.1x	A: 15x B: 1.2x **S: 983x**	S: 6.9x		2	24	0.03	0.41	0.59
	Zinc	S: 3.2x	**S: 40x**	**S: 14x**			24000	38	410	960
PCBs	PCB-aroclor 1254	B: 8.1x **S: 200x**	**B: 23x** **S: 554x**				1.6	0.065		
	PCB-aroclor 1260	S: 1.4x	**S: 78x**	S: 4.9x			--	0.065		
	Total PCBs	**A: 13x** **B: 26x** **S: 200x**	**A: 36x** **B: 72x** **S: 554x**	S: 4.9x	SQS: 7.1x CSL: 1.3x	1	0.5	0.065	12	65
Pesticides	2,4'-DDT		A: 1.2x B: 1.2x			3	2.9			
	4,4'-DDT		A: 1.3x B: 1.4x			3	2.9			
	Aldrin		**B: 159x**				0.059			
	Dieldrin		**B: 15x**				0.063			
SVOCs	Acenaphthene		S: 8.5x				4800	0.06	16	57
	Benzo(b)fluoranthene			S: 1.1x				0.45	230	450
	Benzo(ghi)perylene		S: 1.7x	S: 3.7x				0.078	31	78
	Benzoic Acid			S: 1.1x			320000	0.68	0.650	0.650
	Benzyl Alcohol			**S: 13x**	SQS: 1.5x CSL: 1.2x		24000	0.07	0.057	0.073
	Bis(2-Ethylhexyl) Phthalate		**S: 90x**	**S: 29x**			71	0.078	47	78
	Butylbenzylphthalate		**S: 33x**	S: 6.2x			16000	0.066	4.9	64
	Chrysene		S: 1.2x					0.46	110	460
	Dibenzo(a,h)anthracene			S: 1.9x				0.033	12	33
	Dibenzofuran		**S: 10x**				160	0.059	15	58
	1,2-Dichlorobenzene		**S: 29x**				7200	0.0038	2.3	2.3
	Dimethylphthalate		S: 2.4x	**S: 39x**			80000	0.094	53	53
	Fluorene		**S: 12x**				3200	0.081	23	79
	Indeno(1,2,3-cd)pyrene		S: 1.1x	S: 3.8x				0.088	34	88
	2-Methylnaphthalene		**S: 62x**				320	0.073	38	64
	Naphthalene		S: 9.5x				1600	0.2	99	170
	Pentachlorophenol	S: 2.1x	**S: 76x**				8.3	0.037	0.360	0.690
	Phenanthrene		S: 4.9x					0.49	100	480
	Total cPAHs			A: 1.3x		0.1*	0.14*			
TPH	Gasoline Range Organics		**A: 12x**			30				
	Diesel Range Organics		A: 6.0x			2000				
	Residual Range Organics	A: 2.4x	**A: 14x**			2000				
VOCs	Benzene		A: 2.6x			0.03	18			
	1,2-Dichlorobenzene		**S: 82x**				7200	0.0038		
	1,4-Dichlorobenzene		S: 2.5x				42	0.015		
	Ethylbenzene		A: 1.6x			6	8000			
	Methylene Chloride		A: 1.7x			0.02	130			
	Tetrachloroethene		A: 3.4x			0.05	1.9			
	Toluene		A: 1.0x			7	6400			
	Trichloroethene		A: 5.7x			0.03	2.5			
	Vinyl Chloride		B: 1.3x				0.67			
	m,p,o-Xylenes		A: 7.6x			9	16000			

MTCA Soil Cleanup Levels, Sediment Protection screening levels, and SMS are all in mg/kg.
Table includes all parameters in soil/sediment that exceed cleanup/screening levels in at least one sample during this study.
A = Exceeds MTCA Method A Cleanup Levels for one or more samples
B = Exceeds MTCA Method B Cleanup Levels for one or more samples
S = Exceeds Sediment Protection screening levels for one or more samples
SMS = Sediment Management Standards (includes SQS and CSL)
SQS = Exceeds Marine Sediment Quality Standards for one or more samples
CSL = Exceeds Puget Sound Marine Cleanup Screening Levels for one or more samples
* For carcinogenic PAHs, value applies to benzo(a)pyrene; total cPAHs must meet this value using toxicity equivalency method.
Number indicates the largest exceedance factor (multiple) for each parameter across all samples in each area; factors of 10 or greater are shown in bold text.
For xylenes, the exceedance factor was calculated by dividing the sum of m, p, and o-xylene isomer concentrations by the MTCA Soil Cleanup Levels for Total Xylenes.

TABLE 5

River Bank Soil/Sediment Sample Results Summary

Group	Parameter	River Bank Soil Samples				MTCA Soil Cleanup Levels		Sediment Protection Screening Level (for soil)	Intertidal Sediment Samples		Intertidal Sediment: Organic Carbon Normalized Concentration†		Sediment Management Standards	
		Transect A Top	Transect A Bottom	Transect B Top	Transect B Bottom	Method A (unrestricted land use)	Method B		Transect A Sediment	Transect B Sediment	Transect A Sediment	Transect B Sediment	SQS	CSL
Metals	Arsenic	4.9	4.9	10.8	2.5	20	0.67	590	13 J	18.5 J			57	93
	Cadmium	0.442	0.216	1.08	0.218	2	80	1.7	0.201	0.311			5.1	6.7
	Chromium	16.4	16.2	22.2	20.8	19	240	270	25.5	28.7			260	270
	Copper	**74.6**	249	**1020**	**146**		3000	39	42.5 J	66.9 J			390	390
	Lead	39.7	55.9	**121**	25.2	250		67	50.0	37.7			450	530
	Mercury	**0.070**	**0.208**	**0.187**	0.023	2	24	0.03	0.303	0.154			0.41	0.59
	Silver	0.191	0.082	0.191	0.137		400	0.61	0.306	0.447			6.1	6.1
	Zinc	**250**	**109**	**528**	**83.4**		24000	38	83.8 J	104 J			410	960
PCBs	PCB-aroclor 1248	0.0073 U	0.0079 U	0.0079 U	0.0078 U		0.5	0.065	0.087 U	0.033		1.65		
	PCB-aroclor 1254	0.0073 U	0.0079 U	0.0079 U	0.0078 U		1.6	0.065	0.059 U	0.014 U				
	PCB-aroclor 1260	**0.073**	**0.17**	**0.32**	**0.13**		--	0.065	1.7	0.65	85	32.5		
	Total PCBs	**0.073**	**0.17**	**0.32**	**0.13**	1	0.5	0.065			**85**	**34.2**	12	65
Pesticides	2,4'-DDD	0.0018	0.0085 J	0.0073 U	0.0037		4.2		0.078 J	0.013				
	2,4'-DDT	0.0063 J	0.004 U	0.027 J	0.0021 U	3	2.9		0.049 U	0.0082 U				
	4,4'-DDD	0.0015 U	0.0038	0.006	0.00078 U		4.2		0.0016	0.0012				
	4,4'-DDE	0.0015 U	0.0009 J	0.00079 U	0.00078 U		2.9		0.0034 U	0.0014 U				
	4,4'-DDT	0.0053 U	0.027 J	0.095 J	0.017 J	3	2.9		0.16 U	0.051 U				
	Aldrin	0.0015 U	0.00079 U	0.00079 U	0.00078 U		0.059		0.046 J	0.0014 U				
	Dieldrin	0.0015 U	0.00079 U	0.0021 U	0.00078 U		0.063		0.0018 U	0.0015 U				
	Heptachlor	0.0015 U	0.00079 U	0.00079 U	0.00078 U		0.22		0.0012 U	0.0014 U				
SVOCs	Acenaphthene	0.19 U	0.0042 U	0.048 U	0.0098 U		4800	0.06	0.004	0.007	0.2	0.35	16	57
	Anthracene	0.19 U	0.011 U	0.035 U	0.003 U		24000	1.2	0.031	0.034	1.55	1.7	220	1200
	Benzo(a)anthracene	0.19 U	0.058	0.19 U	0.012 U			0.27	0.084	0.097	4.2	4.85	110	270
	Benzo(a)pyrene	0.19 U	0.076	0.25 U	0.016 U	0.1	0.14	0.21	0.093	0.10	4.65	5	99	210
	Benzo(b)fluoranthene	0.19 U	0.14	**0.51**	0.026 U			0.45	0.16	0.17	8	8.5	230	450
	Benzo(k)fluoranthene	0.19 U	0.05	0.16	0.009 U			0.45	0.054 J	0.061 J	2.7	3.05	total	total
	Benzo(ghi)perylene	0.19 U	**0.092**	**0.29**	0.02 U			0.078	0.063	0.081	3.15	4.05	31	78
	Benzoic Acid	3.8 U	0.17	**0.72**	0.2 U		320000	0.68	0.24 U	0.28 U			0.650	0.650
	Benzyl Alcohol	0.38 U	0.048	**0.94**	0.011		24000	0.07	0.03 U	**0.087**			0.057	0.073
	Bis(2-Ethylhexyl) Phthalate	0.31 U	**0.33**	**2.3**	0.076 U		71	0.078	0.12	0.20	6	10	47	78
	Butylbenzylphthalate	**0.26**	**0.14**	**0.41**	0.018		16000	0.066	0.036	0.049	1.8	2.45	4.9	64
	Chrysene	0.19 U	0.12	0.42 U	0.024 U			0.46	0.16	0.19	8	9.5	110	460
	Dibenzo(a,h)anthracene	0.19 U	0.015	**0.064**	0.0042			0.033	0.015	0.02	0.75	1	12	33
	Dibenzofuran	0.19 U	0.0037	0.0083	0.0098 U		160	0.059	0.0049	0.0044	0.245	0.22	15	58
	1,2-Dichlorobenzene	0.19 U	0.0095 U	0.048 U	0.0098 U		7200	0.0038	0.012 U	0.014 U			2.3	2.3
	Dimethylphthalate	**0.74**	**0.62**	**3.7**	0.08		80000	0.094	0.048	0.16	2.4	8	53	53
	Di-N-Butylphthalate	0.38 U	0.17	0.43 U	0.028 U			2	0.021	0.039	1.05	1.95	220	1700
	Di-N-Octyl Phthalate	0.19 U	0.0095 U	0.048 U	0.0067		1600	4.5	0.012 U	0.014 U			58	4500
	Fluoranthene	0.19 U	0.17	0.36 U	0.03 U		3200	1.2	0.18	0.23	9	11.5	160	1200
	Fluorene	0.19 U	0.0046	0.012	0.0098 U		3200	0.081	0.0068	0.011	0.34	0.55	23	79
	Indeno(1,2,3-cd)pyrene	0.19 U	**0.098**	**0.33**	0.017 U			0.088	0.07	0.094	3.5	4.7	34	88
	2-Methylnaphthalene	0.19 U	0.0044 U	0.014 U	0.0098 U	5	320	0.073	0.0092	0.0047	0.46	0.235	38	64
	2-Methylphenol	0.19 U	0.0095 U	0.048 U	0.0098 U		4000	0.0052	0.0023	0.014 U			0.063	0.063
	4-Methylphenol	0.19 U	0.0084	0.048 U	0.0098 U		--	0.056	0.007	0.0071			0.670	0.670
	Naphthalene	0.19 U	0.0058 U	0.017 U	0.0098 U	5	1600	0.2	0.011	0.006	0.55	0.3	99	170
	Pentachlorophenol	1.9 U	0.095 U	0.48 U	0.098 U		8.3	0.037	0.12 U	0.14 U			0.360	0.690
	Phenanthrene	0.19 U	0.077 U	0.13 U	0.011 U		--	0.49	0.063	0.12	3.15	6	100	480
	Phenol	0.56 U	0.055 U	0.25 U	0.028 U		48000	0.12	0.018	0.016			0.420	1.2
	Pyrene	0.19 U	0.17 U	0.38 U	0.03 U		2400	1.4	0.15	0.2	7.5	10	1000	1400
	Total cPAHs	U	0.118	0.126	0.0017	0.1*	0.14*							
TPH	Gasoline Range Organics			5.1 U		30			20 U	20 U				
	Diesel Range Organics	1300 J	26	160 J		2000			87 J	98 J				
	Residual Range Organics	360 J	240 J	620 J		2000			490 J	570 J				

Table includes all parameters detected in soil/sediment during this study.
Blank cells indicate parameter not analyzed: For TPH, this was because HCID did not detect petroleum hydrocarbons.
VOCs were not analyzed because field screening did not suggest presence of VOCs.
Gray shaded cells are data that exceed MTCA Method A or Method B soil cleanup levels.
Bold text are data that exceed Sediment Protection screening levels or SMS (SQS or CSL) values.
Bold text in gray shaded cells are data that exceed both Screening levels and MTCA Method A or Method B cleanup levels.
All results in mg/kg dry weight, except those that have organic carbon normalized.

U = Parameter not detected at the stated reporting level
J = Estimated concentration
For MTCA Method B, the lower of the two values for carcinogenic and non-carcinogenic risk was used.
Sediment Protection screening levels shown were developed for LDW Slip 4 site (SAIC 2006)
† = Assumes total organic carbon in sediment is equal to 2% (SAIC 2006)
* For carcinogenic PAHs, value applies to benzo(a)pyrene; total cPAHs must meet this value using toxicity equivalency method.

TABLE 6

Groundwater Sample Results Summary

Group	Parameter	MW-1		MW-2		MW-3			Maximum Exceedances of Screening Levels	MTCA Groundwater Cleanup Levels		Sediment Protection Screening Levels (for GW)
		Round 1	Round 2	Round 1	Round 2	Round 1	Round 1 (FD)	Round 2		Method A	Method B	
Metals, total	Arsenic	4.68	2.91	8.07	1.56	3.13	2.79	1.59	A: 1.6x **B: 139x**	5	0.058	370
	Cadmium	0.022	0.013	0.091	0.015	0.040	0.033	0.017		5	8	3.4
	Chromium	2.03	27.3	40.4	15.7	1.52	1.31	19.4		50	48	320
	Copper	2.83	6.63	9.70	5.81	5.23	5.81	9.83			590	120
	Lead	0.070	0.128	0.046	0.189	0.191	0.192	0.519		15		13
	Silver	0.02 U	0.012 U	0.005	0.005 U	0.01 U	0.02 U	0.011 U			80	1.5
	Zinc	4.7	2.93	4.9	3.5	4.5	5.2	3.84			4800	76
Pesticides	2,4'-DDT	0.011 U	0.0005 U	0.011 U	0.00049 U	0.0010	0.0013	0.0005 U		0.3	0.26	
	4,4'-DDT	0.011 U	0.0005 U	0.0022 U	0.00082	0.01 U	0.011 U	0.0014		0.3	0.26	
	Aldrin	0.011 U	0.0005 U	0.011 U	0.00049 U	0.0012	0.0015	0.0012 J			0.0026	
	Dieldrin	0.011 U	0.0005 U	0.0015	0.00071	0.021 J	0.063 J	0.041	**B: 11x**		0.0055	
SVOCs	Pyrene	0.21 U	na	0.21 U	na	0.21 U	0.021	na			480	20
VOCs	Chloromethane	0.5 U	0.82	0.5 U	0.36	0.46	0.40	0.90			3.4	
	Tetrachloroethene	0.5 U	0.5 U	0.5 U	0.20	0.16	0.18	0.18	B: 2.5x	5	0.081	
	Toluene	0.5 U	0.5 U	0.11	0.5 U	0.12	0.18	0.5 U		1000	640	
	1,1,1-Trichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.13	0.5 U		200	7200	

All results in ug/L
Table includes all parameters detected in groundwater during this study.
Gray shaded cells are data that exceed MTCA Method A or Method B cleanup levels.
No data exceeded the Sediment Protection Screening Levels
U = Parameter not detected at the stated reporting level
J = Estimated concentration
For MTCA Method B, the lower of the two values for carcinogenic and non-carcinogenic risk was used.
Sediment protection screening levels shown were developed for LDW Slip 4 site and were based on SMS CSL values.
A = Exceeds MTCA Method A Cleanup Levels for one or more samples
B = Exceeds MTCA Method B Cleanup Levels for one or more samples
S = Exceeds Sediment Protection Screening Levels for one or more samples
Number indicates the largest exceedance factor (multiple) for each parameter in all samples.
Exceedance factors of 10 or greater are shown in bold text.
Round 1 samples collected 10/8/07 & 10/9/07.
Round 2 samples collected 3/12/08.