Table 1: Summary of Laboratory Analyses Performed
Trotsky Property (April-May 2007)

Station	Sample	Depth (ft bgs)	Date Collected	Lab Sample Delivery Group	Metals, total (SW6020/ 7470A/ 7471A)	Metals, dissolved (SW6020/ 7470A/ 7471A)	SVOCs (SW7270C)	Pesticides (SW8081A)	PCBs (SW8082)	HCID (NW-HCID)	TPH-Gx (NWTPH-Gx)	TPH-Dx (NWTPH-Dx)	TOC (SW9060M)	Total solids (EPA160.3M)
Soil														
MW-1	MW-1-5	5	4/23/2007	KO703475	●		●	●	●	●	●	●	●	●
MW-1	MW-1-12.5	12.5	4/23/2007	KO703475	●		●	●	●	●			●	●
MW-2	MW-2-7.5	7.5	4/24/2007	KO703475	●		●	●	●	●	●	●	●	●
MW-2	MW-2-10	10	4/24/2007	KO703475	●		●	●	●	●		●	●	●
MW-2	MW-2-15	15	4/24/2007	KO703475	●		●	●	●	●	●	●	●	●
MW-2	MW-2-15-FD	15	4/24/2007	KO703475	●		●	●	●	●	●	●	●	●
MW-3	MW-3-10	10	4/24/2007	KO703475	●		●	●	●	●			●	●
Sediment														
SED-1	SED-1	0.33	5/4/2007	KO703896	●		●	●	●	●		●	●	●
SED-2	SED-2	0.33	5/4/2007	KO703896	●		●	●	●	●	●	●	●	●
SED-3	SED-3	0.33	5/4/2007	KO703896	●		●	●	●	●		●	●	●
SED-4	SED-4	0.33	5/7/2007	KO703993	●		●	●	●	●		●	●	●
SED-4	SED-4-FD	0.33	5/7/2007	KO703993	●		●	●	●	●		●	●	●
Outfall Solids														
OUTFALL	SED-5	0.33	5/8/2007	KO703993	●		●	●	●	●		●	●	●
Groundwater														
B-1	B-1	--	5/22/2007	KO704473	●	●	●	●	●	●		●	●	
B-2	B-2	--	5/22/2007	KO704473	●	●	●	●	●	●	●	●	●	
MW-1	MW-1	--	5/22/2007	KO704473	●	●	●	●	●	●	●	●	●	
MW-1	MW-1-FD	--	5/22/2007	KO704473	●	●	●	●	●	●	●	●	●	
MW-2	MW-2	--	5/22/2007	KO704473	●	●	●	●	●	●		●	●	
MW-3	MW-3-10	--	5/22/2007	KO704473	●	●	●	●	●	●			●	
Seep Water														
SEEP-1	SEEP-1	--	5/4/2007	KO703896	●	●	●	●	●	●			●	
SEEP-2	SEEP-2	--	5/7/2007	KO703993	●	●	●	●	●	●			●	
SEEP-2	SEEP-2-FD	--	5/7/2007	KO703993	●	●	●	●	●	●			●	
Outfall Water														
OUTFALL	OUTFALL-1	--	5/4/2007	KO703896	●	●	●	●	●	●		●	●	

Notes:

TPH-Gx and/or TPH-Dx were analyzed in those samples where hydrocarbon identification (HCID) indicated these ranges were present.

HCID - hydrocarbon identification
PCB - polychlorinated biphenyl
SVOC - semivolatile organic compound
TPH-Gx - gasoline-range petroleum hydrocarbons
TPH-Dx - diesel-range petroleum hydrocarbons; includes quanitification of both diesel and heavy oil (residual) fractions
TOC - total organic carbon

Table 2: Ground Surface to Elevation Conversion for Trotsky and DMC Property Soil Samples

	Ground Elevation	Depth to Sample	NAVD 88 Elevation Sample Interval		MLLW Elevation Sample Interval	
Trotsky Property						
MW01-5	13.01	5	8.01	6.51	10.39	8.89
MW01-12.5	13.01	12.5	0.51	-0.49	2.89	1.89
MW02-7.5	12.38	7.5	4.88	4.38	7.26	6.76
MW02-10	12.38	10	2.38	0.88	4.76	3.26
MW02-15	12.38	15	-2.62	-4.12	-0.24	-1.74
MW03-10	13.13	10	3.13	1.63	5.51	4.01
DMC Property						
MW08-30	17.51	30	-12.49	-13.99	-10.11	-11.61
MW09-15	16.92	15	1.92	0.42	4.3	2.8
MW10-20	17.18	20	-2.82	-4.32	-0.44	-1.94
MW11-15	18.06	15	3.06	1.56	5.44	3.94
MW12-15	18.35	15	3.35	1.85	5.73	4.23
MW12-25	18.35	25	-6.65	-8.15	-4.27	-5.77

Ground Elevation=NAVD 88, City of Seattle
MLLW Elevation=NAVD+2.38 feet
All values in feet

Table 3: Water Table and Tidal Elevation Data
Trotsky Property

Well	MW-1		MW-2		MW-3		B-1		B-2		B-4		B-5		Tide Level
Top of Casing Elevation	12.54 ft		12.38 ft		12.61 ft		13.86 ft		13.96 ft		17.25 ft		13.91 ft		(Station #9447130)
Time (PDT) 5/4/2007	Depth to Water (ft btoc)	Water-Level Elev. (ft)	Depth to Water (ft btoc)	Water-Level Elev. (ft)	Depth to Water (ft btoc)	Water-Level Elev. (ft)	Depth to Water (ft btoc)	Water-Level Elev. (ft)	Depth to Water (ft btoc)	Water-Level Elev. (ft)	Depth to Water (ft btoc)	Water-Level Elev. (ft)	Depth to Water (ft btoc)	Water-Level Elev. (ft)	Water-Level Elev. (ft)
4:26	-7.09	5.45	-5.71	6.67	-6.20	6.41	-7.87	5.99	-8.52	5.44	-11.72	5.53	-8.24	5.67	7.07
5:26	-7.00	5.54	-5.51	6.87	-5.83	6.78	-7.05	6.81	-8.42	5.54	-11.65	5.6	-8.18	5.73	7.68
6:21	-6.95	5.59	-5.38	7.00	-5.70	6.91	-6.89	6.97	-8.37	5.59	-11.59	5.66	-8.06	5.85	7.65
7:26	-6.89	5.65	-5.40	6.98	-6.02	6.59	-6.91	6.95	-8.24	5.72	-11.57	5.68	-8.00	5.91	6.74
8:21	-6.94	5.60	-5.63	6.75	-6.74	5.87	-7.31	6.55	-8.23	5.73	-11.54	5.71	-8.05	5.86	5.00
9:18	-6.93	5.61	-6.71	5.67	-8.06	4.55	-7.68	6.18	-8.32	5.64	-11.59	5.66	-8.18	5.73	2.81
10:28	-6.95	5.59	-8.26	4.12	-10.41	2.20	-8.80	5.06	-8.61	5.35	-11.74	5.51	-8.44	5.47	-0.42
11:21	-7.05	5.49	-9.30	3.08	-11.97	0.64	-9.83	4.03	-8.84	5.12	-11.91	5.34	-8.68	5.23	-2.41
12:26	-7.04	5.50	-10.45	1.93	-12.93	-0.32	-10.81	3.05	-9.18	4.78	-12.12	5.13	-8.95	4.96	-3.54
13:19	-7.08	5.46	-11.09	1.29	-13.09	-0.48	-11.37	2.49	-9.44	4.52	-12.29	4.96	-9.17	4.74	-3.39
14:18	-7.17	5.37	-10.87	1.51	-12.63	-0.02	-11.73	2.13	-9.63	4.33	-12.44	4.81	-9.26	4.65	-2.10
15:13	-7.15	5.39	-10.61	1.77	-11.74	0.87	-11.06	2.80	-9.75	4.21	-12.50	4.75	-9.37	4.54	-0.23
15:50	-7.02	5.52	-9.85	2.53	-10.85	1.76	-10.71	3.15	-9.72	4.24	-12.37	4.88	-9.31	4.60	1.31

Notes:

Elevations, including tide heights, are referenced to NAVD88.
Times shown reflect the approximate mid-point of each water-level measurement round. Each round included all seven wells and took about 15 minutes to complete.
btoc - below top of casing
ft - feet
PDT - Pacific Daylight Time

Table 4: Field Measurements for Water Samples
Trotsky Property

Sample	pH	Conductivity (µS/cm)	Salinity (%)	Temperature (C)	Turbidity (NTU)	Notes
SEEP-1	6.5	6,350	0.3	19.9	34	Q = ~0.1 gpm
SEEP-2	6.4	8,530	0.5	12.7	159	Q = ~5 gpm; same location as LDW-SP-56 of Windward (2004)
OUTFALL-1	5.5	2,660	0.1	11.9	75	pH based on test strip; pH meter would not calibrate
MW-1	8	5,300	0.3	13.9	140	
MW-2	6.5	15,000	0.8	12.3	89	
MW-3	5.9	3,400	0.2	12.8	45	
B-1	6.3	<500	<0.05	15.1	480	
B-2	6.7	1,300	0.1	13.6	240	

Note:
Q = flow rate
NTU - Nephelometric Turbidity Units
µS/cm - microsiemens per centimeter

Table 5: Summary of Laboratory Analyses Performed
DMC Property (June-July 2008)

Station	Sample	Depth (ft bgs)	Date Collected	Lab Sample Delivery Group	Metals, total (SW6020/ 7471A/ 7060A)	Mercury (EPA1631E)	VOCs (SW8260B)	SVOCs (SW7270C)	Pesticides (SW8081A)	PCBs (SW8082)	HCID (NW-HCID)	TPH-Gx (NWTPH-Gx)	TPH-Dx (NWTPH-Dx Ext.)	TOC (SW9060M)	Total solids (EPA160.3M)	Chloride (EPA300.0)
Soil																
MW-08	MW-08-30	30	6/18/2008	K0805491	●		●	●	●	●	●	●	●	●	●	
MW-09	MW-09-15	15	6/18/2008	K0805491	●		●	●	●	●	●		●	●	●	
MW-10	MW-10-20	20	6/18/2008	K0805491	●			●	●	●	●		●	●	●	
MW-11	MW-11-15	15	6/19/2008	K0805577	●		●	●	●	●	●			●	●	
MW-12	MW-12-15	15	6/19/2008	K0805577	●		●	●	●	●	●	●	●	●	●	
MW-12	MW-12-25	25	6/19/2008	K0805577	●		●	●	●	●	●		●	●	●	
Groundwater																
MW-01	MW-01	--	7/16/2008	K0806545	●	●	●	●	●	●	●		●			●
MW-03	MW-03	--	7/16/2008	K0806545	●	●	●	●	●	●	●					●
MW-04	MW-04	--	7/16/2008	K0806545	●	●	●	●	●	●	●	●	●			●
MW-04	MW-04-FD	--	7/16/2008	K0806545	●	●	●	●	●	●	●	●	●			●
MW-05	MW-05	--	7/17/2008	K0806616	●	●	●	●	●	●	●		●			●
MW-08	MW-08	--	7/17/2008	K0806616	●	●	●	●	●	●	●					●
MW-09	MW-09	--	7/17/2008	K0806616	●	●	●	●	●	●	●					●
MW-10	MW-10	--	7/17/2008	K0806616	●	●	●	●	●	●	●					●
MW-11	MW-11	--	7/17/2008	K0806616	●	●	●	●	●	●	●					●
MW-12	MW-12	--	7/16/2008	K0806545	●	●	●	●	●	●	●	●	●			●
Seeps																
SP-01	SP-01	--	7/18/2008	K0806616	●	●	●	●	●	●	●					●

Notes:

TPH-Gx and/or TPH-Dx were analyzed in those samples where hydrocarbon identification (HCID) indicated these ranges were present.

HCID - hydrocarbon identification
PCB - polychlorinated biphenyl
SVOC - semivolatile organic compound
TOC - total organic carbon
TPH-Gx - gasoline range petroleum hydrocarbons
TPH-Dx - diesel range petroleum hydrocarbons
VOC - volatile organic compound

Table 6: Groundwater Well Summary
Douglas Management Company Property

Monitoring Well	Coordinates		Elevation	
	Easting	Northing	Top of Casing	Ground Elevation
MW-01	1269870.15	200451.97	17.54	18.06
MW-02	1269947.14	200456.25	17.32	17.75
MW-03	1269931.95	200482.01	17.46	18.34
MW-04	1269935.59	200539.60	16.72	17.87
MW-05	1269977.86	200608.64	15.67	16.56
MW-06	Unable to Locate			
MW-07	Unable to Locate			
MW-08	1270060.25	200399.74	17.16	17.51
MW-09	1269979.52	200384.27	16.47	16.92
MW-10	1269915.27	200386.63	16.90	17.18
MW-11	1269834.30	200407.55	17.83	18.06
MW-12	1269907.84	200465.48	18.04	18.35

Survey Notes:

Horizontal Datum

-- Based upon NAD83/91, Washington State Plane Coordinate System, North Zone. US Survey Feet

-- Coordinates shown hereon are based upon grid projections. Angles and distances inversed between these grid coordinates will produce grid distances.

Vertical Datum

-- Based upon NAVD 88; as published by the City of Seattle.

Table 7: Soil Sampling Results
Trotsky Property

All concentrations in mg/kg DW, except as noted

Group	Parameter	MW-1-5	MW-1-12.5	MW-2-7.5	MW-2-10	MW-2-15[C]	MW-3-10	MTCA Soil Cleanup Levels		Draft Soil-to-Sediment Screening Level[A]	Sediment Quality Standard (SQS)
		4/23/2007	4/23/2007	4/24/2007	4/24/2007	4/24/2007	4/24/2007	Method A (unrestricted land use)	Method B		
Metals	Arsenic	11.7	1.11	2.61	4.69	3.1	1.14	20	0.67	590	57
	Cadmium	0.858	0.095	0.322	0.121	0.537	0.078	2	80	1.7	5.1
	Chromium	56.6	18.2	22.9	14.6	55.3	8.7	19	240	270	260
	Copper	284	20.8	18.8	18.9	41.2	13.1	--	3000	39	390
	Lead	836	6.44	76.8	25	204	1.82	250	--	67	450
	Mercury	2.01	0.771	0.019	0.055	0.318	0.019	2	24	0.03	0.41
	Silver	0.44	0.11	0.45	0.04	0.13	0.03	--	400	0.61	--
	Zinc	220	25.9	85.7	34.7	126	18.1	--	24000	38	410
PCBs	PCB-Aroclor 1242	51 J	0.24	0.1 J	0.4 J	6.3 J	0.0049 U	--	--	0.065	
	PCB-Aroclor 1254	18 J	0.081	0.065 J	0.16 J	2.8 J	0.0049 U	--	1.6	0.065	
	PCB-Aroclor 1260	7.5 J	0.041	0.046 J	0.21 J	2.8 J	0.0049 U	--	--	0.065	
	PCBs, total calc'd	76.5	0.362	0.211	0.77	11.9	--	--	0.5	0.065	
Pesticides	2,4'-DDD	0.19 U	0.0011 U	0.0049 J	0.0082 J	0.19 J	0.00049 U	--	4.2	--	
	2,4'-DDE	0.16 U	0.0033	0.0018 J	0.00032 J	0.037 U	0.00049 U	--	2.9	--	
	2,4'-DDT	0.41 J	0.0024	0.0022 U	0.01 J	0.2 J	0.00049 U	3	2.9	--	
	4,4'-DDD	0.017 U	0.0005 U	0.0026	0.0049	0.19 J	0.00049 U	--	4.2	--	
	4,4'-DDE	1.9 J	0.021 J	0.0064	0.0081	0.34 J	0.00049 U	--	2.9	--	
	4,4'-DDT	0.49 J	0.0032	0.005 J	0.0073	0.048 U	0.00049 U	3	2.9	--	
	Chlordane	0.26 U	0.024 U	0.032 J	0.011 U	0.035 U	0.0049 U	--	2.9	--	
	Lindane	0.03 U	0.0012 J	0.00049 U	0.0016 J	0.013 J	0.00049 U	0.01	0.77	--	
SVOCs	1,2,4-Trichlorobenzene	1 U	0.05 U	0.2 U	0.04 U	0.058 J	0.01 U	--	800	0.0025	
	1,2-Dichlorobenzene	0.98 J	0.05 U	0.2 U	0.04 U	0.048 J	0.01 U	--	7200	0.0038	
	1,4-Dichlorobenzene	2.4 J	0.05 U	0.2 U	0.04 U	0.15 J	0.01 U	--	42	0.015	
	2-Methylnaphthalene	17 J	0.067 J	0.073 J	0.035 J	0.27 J	0.01 U	5[B]	320	0.073	
	Acenaphthene	0.82 J	0.05 U	0.057 J	0.0099 J	0.18 J	0.01 U	--	4800	0.06	
	Acenaphthylene	1 U	0.05 U	0.2 U	0.0085 J	0.063 J	0.01 U	--	--	0.069	
	Anthracene	0.91 J	0.05 U	0.06 J	0.022 J	0.2 J	0.01 U	--	24000	1.2	
	Benzo(a)anthracene	0.45 J	0.05 U	0.038 J	0.046 J	0.26 J	0.01 U	--	--	0.27	
	Benzo(a)pyrene	1 U	0.05 U	0.2 U	0.045 J	0.28 J	0.01 U	0.1	0.14	0.21	
	Benzo(b)fluoranthene	1 U	0.05 U	0.2 U	0.051 J	0.3 J	0.01 U	--	--	0.45	
	Benzo(ghi)perylene	1 U	0.05 U	0.2 U	0.035 J	0.22 J	0.01 U	--	--	0.078	
	Benzo(k)fluoranthene	1 U	0.05 U	0.2 U	0.017 J	0.12 J	0.01 U	--	--	0.45	
	Bis(2-ethylhexyl)phthalate	2.7 J	0.068 J	1.5 J	0.094 J	1.2 J	0.0051 J	--	71	0.078	
	Butylbenzylphthalate	1 U	0.05 U	0.2 U	0.04 U	0.11 J	0.01 U	--	16000	0.066	
	Chrysene	0.78 J	0.01 J	0.066 J	0.054 J	0.31 J	0.01 U	--	--	0.46	
	Dibenzofuran	0.68 J	0.05 U	0.042 J	0.012 J	0.093 J	0.01 U	--	160	0.059	
	Dimethylphthalate	1 U	0.05 U	0.2 U	0.04 U	0.038 J	0.01 U	--	80000	0.094	
	Di-n-butylphthalate	1 U	0.05 U	0.13 J	0.04 U	0.15 J	0.01 U	--	8000	2	
	Fuoranthene	1.9 J	0.021 J	0.12 J	0.1 J	0.89 J	0.01 U	--	3200	1.2	
	Fluorene	1.9 J	0.013 J	0.087 J	0.016 J	0.21 J	0.01 U	--	3200	0.081	

Table 7: Soil Sampling Results
Trotsky Property

All concentrations in mg/kg DW, except as noted

Group	Parameter	MW-1-5	MW-1-12.5	MW-2-7.5	MW-2-10	MW-2-15[C]	MW-3-10	MTCA Soil Cleanup Levels		Draft Soil-to-Sediment Screening Level[A]	Sediment Quality Standard (SQS)
		4/23/2007	4/23/2007	4/24/2007	4/24/2007	4/24/2007	4/24/2007	Method A (unrestricted land use)	Method B		
	Indeno(1,2,3-cd)pyrene	1 U	0.05 U	0.2 U	0.033 J	0.2 J	0.01 U	--	--	0.088	
	Naphthalene	3.6 J	0.02 J	0.068 J	0.095 J	1.1 J	0.01 U	5[B]	1600	0.2	
	Pentachlorophenol	10 U	0.5 U	2 U	0.4 U	0.37 J	0.1 U	--	8.3	0.037	
	Phenanthrene	7 J	0.054 J	0.24 J	0.079 J	0.98 J	0.0023 J	--	--	0.49	
	Phenol	3 U	0.038 J	0.59 U	0.12 U	0.051 J	0.03 U	--	48000	0.12	
	Pyrene	2.7 J	0.023 J	0.11 J	0.11 J	0.79 J	0.01 U	--	2400	1.4	
	Total cPAH	0.9	0.045	0.17	0.068	0.41	0.009 U	0.1[D]	0.14[D]	--	
TPH	Gasoline Range Organics	260 J	20 U	10 J	20 U	54 J	20 U	30	--	--	
	Diesel Range Organics	15000 J	50 U	1000 J	61 J	1000 J	50 U	2000	--	--	
	Residual Range Organics	49000 J	100 U	3000 J	210 J	2100 J	100 U	2000	--	--	
Other	Total Solids	76.3%	74.0%	80.0%	86.3%	80.4%	77.6%	--	--	--	
	Total Organic Carbon	4.25%	0.28%	1.63%	2.60%	4.01%	0.30%	--	--	--	

Notes:

Table includes all parameters detected in soil in at least one sample during this study.
Yellow shaded cells are data that exceed MTCA Method A or Method B soil cleanup levels or draft soil-to-sediment screening levels (SAIC 2006).
U = Parameter not detected at the stated reporting level
J = Estimated concentration
[A] SAIC 2006; draft soil-to-sediment screening levels based on SMS CSL values and assuming saturated soil conditions.
[B] Method A Soil Cleanup Level is for total naphthalenes
[C] Field duplicate was collected at this location; result listed is higher of the two detections or lowest detection limit.
[D] For cPAHs, cleanup level for benzo(a)pyrene applies to total cPAHs calculated using the toxicity equivalency method.

Table 8: Soil Sampling Exceedance Summary
Trotsky Property

Group	Parameter	Range of Conc'ns (mg/kg)	MTCA Method A Soil Cleanup Level (mg/kg)	Maximum Exceedance Factor	MTCA Method B Soil Cleanup Level	Maximum Exceedance Factor	Draft Soil-to-Sediment Screening Level[A] (mg/kg)	Maximum Exceedance Factor
Metals	**Arsenic**	1.14 - 11.7	20	<1	0.67	**17**	590	<1
	Chromium	8.7 - 56.6	19	3.0	240	<1	270	<1
	Copper	13.1 - 284	--	--	3000	<1	39	7.3
	Lead	1.82 - 836	250	3.3	--	--	67	**12**
	Mercury	0.019 - 2.01	2	1.0	24	<1	0.03	**67**
	Zinc	18.1 - 220	--	--	24000	<1	38	5.8
PCBs	**PCB-Aroclor 1242**	<0.0049 - 51	--	--	--	--	0.065	**785**
	PCB-Aroclor 1254	<0.0049 - 18	--	--	1.6	**11**	0.065	**277**
	PCB-Aroclor 1260	<0.0049 - 7.5	--	--	--	--	0.065	**115**
	Total PCBs	0.211 - 76.5	--	--	0.5	**153**	0.065	**1180**
Pesticides	Lindane	<0.00049 - 0.013	0.01	1.3	--	--	--	--
SVOCs	**1,2,4-Trichlorobenzene**	<0.01 - 0.058	--	--	800	<1	0.0025	**23**
	1,2-Dichlorobenzene	<0.01 - 0.98	--	--	7200	<1	0.0038	**258**
	1,4-Dichlorobenzene	<0.01 - 2.4	--	--	42	<1	0.015	**160**
	2-Methylnaphthalene	<0.01 - 17	5[B]	3.4	320	<1	0.073	**233**
	Acenaphthene	<0.01 - 0.82	--	--	4800	<1	0.06	**14**
	Benzo(a)anthracene	<0.01 - 0.45	--	--	--	--	0.27	1.7
	Benzo(a)pyrene	<0.01 - 0.28	0.1	2.8	0.14	2.0	0.21	1.3
	Benzo(ghi)perylene	<0.01 - 0.22	--	--	--	--	0.078	2.8
	Bis(2-ethylhexyl)phthalate	0.0051 - 0.16	--	--	71	<1	0.078	2.1
	Butylbenzylphthalate	<0.01 - 0.11	--	--	16000	<1	0.066	1.7
	Chrysene	<0.01 - 0.78	--	--	--	--	0.46	1.7
	Dibenzofuran	<0.01 - 0.68	--	--	160	<1	0.059	**12**
	Fluoranthene	<0.01 - 1.9	--	--	3200	<1	1.2	1.6
	Fluorene	<0.01 - 1.9	--	--	3200	<1	0.081	**23**
	Indeno(1,2,3-cd)pyrene	<0.01 - 0.2	--	--	--	--	0.088	2.3
	Naphthalene	<0.01 - 0.46	5[B]	<1	1600	<1	0.2	1.9
	Pentachlorophenol	<0.01 - 0.37	--	--	8.3	<1	0.037	**10**
	Phenanthrene	0.0023 - 7	--	--	--	--	0.49	**14**
	Pyrene	<0.02 - 2.7	--	--	2400	<1	1.4	1.9
TPH	Gasoline Range Organics	10 - 260	30	8.7	--	--	--	--
	Diesel Range Organics	<50 - 15000	2000	7.5	--	--	--	--
	Residual Range Organics	<100 - 49000	2000	**25**	--	--	--	--

Notes:

Table includes all parameters detected in soil that exceed cleanup/screening levels in at least one sample.
Exceedance factors were calculated as the maximum detected concentration divided by soil cleanup level or screening level
Maximum Exceedance Factor indicates the largest exceedance factor for each parameter across all samples; factors of 10 or greater are shown in bold text.

[A] SAIC 2006; draft soil-to-sediment screening levels based on SMS CSL values and assuming saturated soil conditions.

[B] Method A Soil Cleanup Level is for total naphthalenes

Table 9: Water Sampling Results
Trotsky Property

All concentrations in ug/L

Group	Parameter	B-1	B-2	MW-1[B,C]	MW-2	MW-3	SEEP-1	SEEP-2[C]	OUTFALL-1	MTCA Groundwater Cleanup Levels		Draft Groundwater-to Sediment Screening Levels[A]
		5/22/2007	5/22/2007	5/22/2007	5/22/2007	5/22/2007	5/4/2007	5/7/2007	5/4/2007	Method A	Method B	
Metals, Dissolved	Arsenic	3.9	4.7	25.7	4.17	0.98	6.62	7.42	9.07	5	0.058	370
	Cadmium	0.02 U	0.02 U	0.233	0.02 U	0.026	0.017 J	0.046	0.165	5	8	3.4
	Chromium	2.56	2.16	43	1.37	0.74	2.71	3.07	1.5	50	48	320
	Copper	3.03	0.22 J	36.4	12.3	4.9	1.81	1.9	8.91	--	590	120
	Lead	0.065	0.038	36.5	0.252	0.095	0.281	0.163	0.249	15	--	13
	Mercury	0.03 J	0.2 U	0.12 J	0.03 J	0.03 J	0.2 U	0.2 U	0.2 U	2.0	4.8	0.0074
	Silver	0.1 U	0.1 U	0.22	0.06 J	0.1 U	0.01 J	0.008 J	0.006 J	--	80	1.5
	Zinc	1.23	0.45 J	25.1	7.58	13.2	6.3	23.2	70.5	--	4800	76
Metals, Total	Arsenic	9.02	4.78	30	5.06	1.17	7.51	7.0	8.77	5	0.058	370
	Cadmium	2.47	0.01 J	0.466	0.109	0.018 J	0.119	0.071	0.171	5	8	3.4
	Chromium	21.4	1.99	75.1	6.58	0.75	4.92	1.99	2.1	50	48	320
	Copper	23.1	0.72	70.6	11.3	3.53	7.14	2.31	11.5	--	590	120
	Lead	40.6	0.299	77.5	26.2	0.065	11.8	0.842	2.06	15	--	13
	Mercury	0.38	0.03 J	0.28	0.12 J	0.03 J	0.04 J	0.2 U	0.2 U	2.0	4.8	0.0074
	Silver	0.1 U	0.1 U	0.38	0.15	0.1 U	0.041	0.01 J	0.019 J	--	80	1.5
	Zinc	94.6	1.68	46.2	34.4	13.8	32.3	27	57.8	--	4800	76
PCBs	PCB-Aroclor 1242	0.13	1.7 J	2.9 J	0.75 J	0.02 U	0.021 U	0.02 U	0.029 U	--	--	--
	PCB-Aroclor 1248	0.02 U	0.2 U	0.2 U	0.2 U	0.02 U	0.021 U	0.0094 J	0.031 U	--	--	1.5
	PCB-Aroclor 1254	0.035	0.14 J	1.1 J	0.47 J	0.02 U	0.021 U	0.017 J	0.021 U	--	--	0.86
	PCB-Aroclor 1260	0.014 J	0.069 J	0.54 J	0.42 J	0.02 U	0.5	0.02	0.02 U	--	--	0.31
	PCBs-Total, calc'd	0.179	1.909	4.54	1.64	NA	0.5	0.026	NA	0.1	0.044	1.5
Pesticides	2,4'-DDD	0.0011 U	0.022 U	0.0049 U	0.051 J	0.00048 U	0.016 J	0.00049 U	0.0025 U	--	--	--
	2,4'-DDE	0.00048 U	0.0096 U	0.02 J	0.013 U	0.00034 J	0.013 U	0.00049 U	0.0025 U	--	--	--
	2,4'-DDT	0.001 J	0.0096 U	0.072 J	0.052 J	0.00048 U	0.011 U	0.00042 J	0.0025 U	0.3	0.26	--
	4,4'-DDD	0.0015	0.0096 U	0.0048 U	0.026 J	0.00048 U	0.013 J	0.00049 U	0.0067 J	--	--	--
	4,4'-DDE	0.0018	0.041 U	0.1 J	0.08 J	0.00064 U	0.016	0.0022	0.0056 J	--	--	--
	4,4'-DDT	0.0014	0.01 U	0.041 U	0.04 U	0.0013 J	0.09 J	0.002 J	0.0025 U	0.3	0.26	--
	Aldrin	0.00092	0.02 J	0.0048 U	0.0096 U	0.00048 U	0.00053 U	0.00049 U	0.0012 J	--	0.0026	--
	cis-Chlordane	0.00052	0.026 J	0.019 J	0.0096 U	0.00048 U	NR	0.0049 U	NR	--	0.25	--
	gamma-Chlordane	0.0015 U	0.013 J	0.055 J	0.022 J	0.00048 U	NR	0.00049 U	NR	--	0.25	--
	Lindane	0.0014	0.012 J	0.021 J	0.0096 U	0.00038 J	0.00053 U	0.0011 J	0.0025 U	0.2	0.67	--
SVOCs	1,2,4-Trichlorobenzene	0.2 U	0.34 J	2.7 J	0.2 U	0.2 U	0.23 U	0.2 U	0.2 U	--	80	2.5
	1,2-Dichlorobenzene	0.031 J	1.9 J	4.5 J	0.15 J	0.2 U	0.23 U	0.2 U	0.2 U	--	720	5.2
	1,4-Dichlorobenzene	0.03 J	5.9 J	2.6 J	0.48	0.2 U	1.3	0.2 U	0.2 U	--	1.8	21
	2,4-Dimethylphenol	2 U	20 U	16 J	2 U	2 U	2.3 U	2 U	2 U	--	160	2
	2-Methylnaphthalene	0.2 U	0.76 J	110 J	0.17 J	0.2 U	0.23 U	0.2 U	0.2 U	--	32	31
	2-Methylphenol	0.48 U	4.8 U	19 J	0.48 U	0.48 U	0.56 U	0.49 U	0.5 U	--	400	7.1
	4-Methylphenol	0.062 J	4.8 U	12 J	0.48 U	0.48 U	0.56 U	0.49 U	0.5 U	--	40	77

Table 9: Water Sampling Results
Trotsky Property

All concentrations in ug/L

Group	Parameter	B-1	B-2	MW-1[B,C]	MW-2	MW-3	SEEP-1	SEEP-2[C]	OUTFALL-1	MTCA Groundwater Cleanup Levels		Draft Groundwater-to Sediment Screening Levels[A]
		5/22/2007	5/22/2007	5/22/2007	5/22/2007	5/22/2007	5/4/2007	5/7/2007	5/4/2007	Method A	Method B	
	Acenaphthene	0.2 U	0.76 J	1.8 J	0.22	0.2 U	0.23 U	0.2 U	0.2 U	--	960	9.3
	Acenaphthylene	0.2 U	0.37 J	0.9 J	0.2 U	0.2 U	0.23 U	0.2 U	0.033 J	--		11
	Anthracene	0.058 J	1.1 J	1.2 J	0.18 J	0.088 J	0.23 U	0.2 U	0.2 U	--	4800	59
	Benzo(a)anthracene	0.2 U	0.43 J	0.97 J	0.039 J	0.2 U	0.23 U	0.019 J	0.2 U	--	--	0.63
	Benzo(a)pyrene	0.2 U	0.34 J	0.85 J	0.027 J	0.2 U	0.23 U	0.2 U	0.2 U	0.1	0.012	0.27
	Benzo(b)fluoranthene	0.2 U	0.3 J	0.74 J	0.033 J	0.2 U	0.23 U	0.2 U	0.2 U	--	--	0.56
	Benzo(ghi)perylene	0.2 U	0.29 J	0.73 J	0.2 U	0.2 U	0.23 U	0.2 U	0.2 U	--	--	0.029
	Benzo(k)fluoranthene	0.2 U	0.28 J	0.69 J	0.2 U	0.2 U	0.23 U	0.2 U	0.2 U	--	--	0.57
	Benzoic acid	4.8 U	48 U	100 J	7.2	2.4 J	5.6 U	4.9 U	5 U	--	64000	2200
	Bis(2-ethylhexyl)phthalate	0.96 U	9.6 U	20 U	0.84 J	0.96 U	1.2 U	0.98 U	3.7 U	--	6.3	0.47
	Butylbenzylphthalate	0.2 U	2 U	1.1 J	0.079 J	0.2 U	0.23 U	0.2 U	0.073 J	--	3200	6.8
	Chrysene	0.2 U	0.35 J	0.99 J	0.033 J	0.2 U	0.23 U	0.2 U	0.2 U	--	--	1.9
	Dibenz(a,h)anthracene	0.2 U	2 U	0.75 J	0.2 U	0.2 U	0.23 U	0.2 U	0.2 U	--	--	0.013
	Dibenzofuran	0.2 U	0.47 J	1.3 J	0.082 J	0.2 U	0.23 U	0.2 U	0.2 U	--	32	5.1
	Diethylphthalate	0.2 U	1.4 J	1.0 J	0.073 J	0.2 U	0.049 J	0.028 J	0.16 J	--	13000	870
	Dimethylphthalate	0.2 U	2 U	3.9 U	0.2 U	0.2 U	0.23 U	0.014 J	0.061 J	--	16000	140
	Di-n-butylphthalate	0.2 U	0.59 J	3.9 U	0.085 J	0.045 J	0.11 J	0.069 J	0.13 J	--	1600	1200
	Di-n-octylphthalate	0.2 U	0.42 J	1 J	0.2 U	0.2 U	0.23 U	0.2 U	4.6 U	--	320	23
	Fluoranthene	0.2 U	0.53 J	1.1 J	0.13 J	0.2 U	0.047 J	0.023 J	0.038 J	--	640	17
	Fluorene	0.2 U	0.66 J	2.1 J	0.18 J	0.2 U	0.23 U	0.2 U	0.2 U	--	640	7
	Hexachlorobenzene	0.2 U	0.3 J	0.75 J	0.2 U	0.2 U	0.23 U	0.2 U	0.2 U	--	0.055	0.029
	Indeno(1,2,3-cd)pyrene	0.2 U	0.28 J	0.81 J	0.2 U	0.2 U	0.23 U	0.2 U	0.2 U	--	--	0.033
	Naphthalene	0.2 U	2 U	46 J	1.1	0.2 U	0.23 U	0.012 J	0.2 U	160	160	92
	N-Nitrosodiphenylamine	0.2 U	1.2 J	3.9 J	0.2 U	0.2 U	0.23 U	0.2 U	0.2 U	--	--	2
	Pentachlorophenol	2 U	0.8 J	23 J	0.16 J	2 U	0.064 J	0.98 U	0.99 U	--	0.73	10
	Phenanthrene	0.2 U	0.46 J	2.2 J	0.27	0.2 U	0.23 U	0.017 J	0.026 J	--	--	23
	Phenol	0.48 U	4.8 U	1.5 J	0.48 U	0.48 U	0.56 U	0.49 U	1.2	--	4800	220
	Pyrene	0.2 U	0.48 J	1.2 J	0.12 J	0.2 U	0.045 J	0.021 J	0.038 J	--	480	20
	Total cPAH	0.18	0.51	1.6	0.086	--	--	--	--	0.1	0.012	--
TPH	Gasoline Range Organics	250 U	480 J	6300 J	250 U	250 U	--	--	NR U	800	--	--
	Diesel Range Organics	27 J	64 J	900 J	160 J	630 U	--	--	250 U	500	--	--
	Residual Range Organics	19 J	480 U	680 J	280 J	630 U	--	--	500 U	500	--	--

Notes:

Table includes all parameters detected in groundwater during this study.
Yellow shaded cells are data that exceed MTCA Method A or Method B groundwater cleanup levels or groundwater-to-sediment screening levels.
For MTCA Method B, the lower of the two values for carcinogenic and non-carcinogenic risk was used.
NR - Not reported by laboratory.
NA - Not applicable. Total PCBs were calculated as the sum of detected Aroclors; therefore, if no Aroclors were detected, total PCBs were not calculated.

Table 9: Water Sampling Results
Trotsky Property

All concentrations in ug/L

Group	Parameter	B-1	B-2	MW-1[B,C]	MW-2	MW-3	SEEP-1	SEEP-2[C]	OUTFALL-1	MTCA Groundwater Cleanup Levels		Draft Groundwater-to Sediment Screening Levels [A]
		5/22/2007	5/22/2007	5/22/2007	5/22/2007	5/22/2007	5/4/2007	5/7/2007	5/4/2007	Method A	Method B	

U = Parameter not detected at the stated reporting level.
J = Estimated concentration.
[A] SAIC 2006; draft groundwater-to-sediment screening levels are based on SMS CSL values.
[B] Reporting limits for SVOCs were elevated in this sample; some chemicals listed as not detected may be present at concentrations above groundwater cleanup or screening levels.
[C] Field duplicate was collected at this location; result listed is higher of the two detections or lowest detection limit.
[D] For cPAHs, cleanup level for benzo(a)pyrene applies to total cPAHs calculated using the toxicity equivalency method.

Table 10: Groundwater Sampling Exceedance Summary
Trotsky Property

Group	Parameter	Range of Conc'ns (ug/L)	MTCA Method A Groundwater Cleanup Level (ug/L)	Maximum Exceedance Factor	MTCA Method B Groundwater Cleanup Level (ug/L)	Maximum Exceedance Factor	Draft Groundwater-to-Sediment Screening Levels[A] (ug/L)	Maximum Exceedance Factor
Metals, Total	**Arsenic**	1.17 - 30	5	6	0.058	**517**	370	<1
	Chromium	0.75 - 75.1	50	1.5	48	1.6	320	<1
	Lead	0.065 - 77.5	15	5.2	--	--	13	6
	Mercury	0.03 - 0.38	2	<1	4.8	<1	0.0074	**51**
	Zinc	1.68 - 94.6	--	--	4800	<1	76	1.2
PCBs	PCB-Aroclor 1254	<0.02 - 1.1	--	--	--	--	0.86	1.3
	PCB-Aroclor 1260	<0.02 - 0.54	--	--	--	--	0.31	1.7
	PCBs-Total, calc'd	0.179 - 4.54	0.1	**45**	0.044	**103**	1.5	3
Pesticides	Aldrin	<0.00048 - 0.02	--	--	0.0026	7.7	--	--
SVOCs	1,4-Dichlorobenzene	<0.2 - 5.9	--	--	1.8	3.3	21	<1
	2,4-Dimethylphenol	<2 - 16	--	--	160	<1	2	8
	2-Methylnaphthalene	<0.2 - 110	--	--	32	3.4	31	3.5
	2-Methylphenol	<0.48 - 19	--	--	400	<1	7.1	2.7
	Benzo(a)anthracene	<0.2 - 0.97	--	--	0.012	**81**	0.63	1.5
	Benzo(a)pyrene	<0.2 - 0.85	0.1	8.5	0.012	**71**	0.27	3.1
	Benzo(b)fluoranthene	<0.2 - 0.74	--	--	0.012	**62**	0.56	1.2
	Benzo(ghi)perylene	<0.2 - 0.73	--	--	--	--	0.029	**25**
	Benzo(k)fluoranthene	<0.2 - 0.69	--	--	0.012	**58**	0.56	1.2
	Bis(2-ethylhexyl)phthalate	<0.96 - 0.84		--	6.3	<1	0.47	1.8
	Chrysene	<0.2 - 0.99	--	--	0.012	**83**	1.9	<1
	Dibenz(a,h)anthracene	<0.2 - 0.75	--	--	0.012	**63**	0.013	**58**
	Hexachlorobenzene	<0.2 - 0.75	--	--	0.055	**14**	0.029	**26**
	Indeno(1,2,3-cd)pyrene	<0.2 - 0.81	--	--	0.012	**68**	0.033	**25**
	N-Nitrosodiphenylamine	<0.2 - 3.9	--	--	--	--	2	2
	Pentachlorophenol	<2 - 23	--	--	0.73	**32**	10	2.3
	Total cPAH	0.086 - 1.6	0.1	**16**	0.012	**133**	--	--
TPH	Gasoline Range Organics	<250 - 6300	800	7.9	--	--	--	--
	Diesel Range Organics	27 - 900	500	1.8	--	--	--	--
	Residual Range Organics	19 - 680	500	1.4	--	--	--	--

Notes:

Exceedance factors were calculated as the maximum detected concentration divided by the MTCA cleanup level or groundwater-to-sediment screening level
Maximum exceedance value indicates the largest exceedance factor for each parameter across all samples
Exceedance factors greater than 1 are highlighted in yellow; chemicals of greatest concern (i.e., exceedance factors >10) are shown in **Bold**
[A] SAIC 2006; draft groundwater-to-sediment screening levels based on SMS CSL values

Table 11: Sediment Sampling Results
Trotsky Inlet

Group	Parameter	SED-1 (mg/kg DW)	SED-2 (mg/kg DW)	SED-3 (mg/kg DW)	SED-4 (mg/kg DW)	SED-4-FD (mg/kg DW)	SED-5 (OUTFALL) (mg/kg DW)	SQS (mg/kg DW)	CSL (mg/kg DW)	LAET (mg/kg DW)	2LAET (mg/kg DW)
Metals	Arsenic	48.7	0.77	2.6	3.7	2.3	7.8	57	93	--	--
	Cadmium	36.3	6.69	0.153	0.714	0.603	1.13	5.1	6.7	--	--
	Chromium	1680	507	15.1	28.5	22.6	48.8	260	270	--	--
	Copper	1090	157	19.6	34.4	28.5	146	390	390	--	--
	Lead	10400	4280	35.9	137	115	225	450	530	--	--
	Mercury	247	59.5	0.21	0.203	0.179	0.296	0.41	0.59	--	--
	Silver	19	0.676	0.174	0.13	0.231	0.918	6.1	6.1	--	--
	Zinc	4580	2140	43.5	175	141	255	410	960	--	--
PCBs	PCB-Aroclor 1242	850 J	70 J	0.21 J	0.89 J	2.7 J	0.6 J	--	--	--	--
	PCB-Aroclor 1254	1500 J	120 J	0.36 J	0.74 J	2 J	1.3 J	--	--	--	--
	PCB-Aroclor 1260	580 J	41 J	0.22 J	0.3 J	0.98 U	1.7 J	--	--	--	--
	PCBs, total calc'd	2930	231	0.79	1.93	4.7	3.6	--	--	0.13	1
Pesticides	2,4'-DDD	22 U	1.8 U	0.0099 U	0.015 U	0.028 U	0.11 J	--	--	--	--
	2,4'-DDT	45 U	5.9 J	0.021 J	0.032 J	0.044 J	0.15 J	--	--	--	--
	4,4'-DDD	15 J	2 J	0.0066 J	0.022 J	0.034 J	0.035	--	--	--	--
	4,4'-DDE	16 J	3.6 J	0.02 J	0.042 J	0.06 J	0.21 J	--	--	--	--
	4,4'-DDT	46 J	5.8 J	0.022 J	0.047 J	0.051 J	0.00099 U	--	--	--	--
	Lindane	10 U	1 U	0.0099 U	0.0098 U	0.0098 U	0.0017 J	--	--	--	--
SVOCs	1,2,4-Trichlorobenzene	0.94 J	2.1 U	0.049 U	0.1 U	0.1 U	0.1 U	--	--	0.031	0.051
	1,2-Dichlorobenzene	0.67 J	2.1 U	0.049 U	0.1 U	0.1 U	0.1 U	--	--	0.035	0.05
	1,4-Dichlorobenzene	2 U	1.1 J	0.049 U	0.1 U	0.1 U	0.1 U	--	--	0.11	0.12
	2-Methylnaphthalene	1.6 J	0.49 J	0.049 U	0.028 J	0.032 J	0.035 J	--	--	0.67	1.4
	4-Methylphenol	0.51 J	2.1 U	0.03 J	0.1 U	0.1 U	0.1 U	0.67	0.67	--	--
	Acenaphthene	0.47 J	2.1 U	0.012 J	0.1 U	0.041 J	0.1 U	--	--	0.5	0.73
	Acenaphthylene	0.48 J	2.1 U	0.049 U	0.1 U	0.1 U	0.1 U	--	--	1.3	1.3
	Anthracene	0.63 J	0.75 J	0.012 J	0.023 J	0.15 J	0.035 J	--	--	0.96	4.4
	Benzo(a)anthracene	0.53 J	4.2 J	0.019 J	0.087 J	0.34 J	0.067 J	--	--	1.3	1.6
	Benzo(a)pyrene	0.94 J	3.3 J	0.019 J	0.09 J	0.26 J	0.07 J	--	--	1.6	3
	Benzo(b)fluoranthene	1.1 J	4.5 J	0.031 J	0.14 J	0.42 J	0.13 J	--	--	--	--
	Benzo(ghi)perylene	0.91 J	2.2 J	0.02 J	0.088 J	0.21 J	0.098 J	--	--	0.67	0.72
	Benzo(k)fluoranthene	0.38 J	2 J	0.012 J	0.053 J	0.15 J	0.036 J	--	--	--	--
	Bis(2-ethylhexyl)phthalate	6.5 J	17 J	0.14 J	0.76 J	0.42 J	2.2 J	--	--	1.3	1.9
	Butylbenzylphthalate	3.3 J	2.1 U	0.049 U	0.1 U	0.1 U	0.88 J	--	--	0.063	0.9
	Chrysene	0.92 J	4.8 J	0.022 J	0.098 J	0.29 J	0.074 J	--	--	1.4	2.8
	Dibenzo(a,h)anthracene	0.32 J	0.57 J	0.049 U	0.02 J	0.042 J	0.1 U	--	--	0.23	0.54
	Dibenzofuran	2 U	2.1 U	0.0083 J	0.1 U	0.035 J	0.1 U	--	--	0.54	0.7
	Dimethylphthalate	0.44 J	2.1 U	0.049 U	0.013 J	0.1 U	0.13 J	--	--	0.071	0.16
	Fluoranthene	1.1 J	7.3 J	0.054 J	0.17 J	1 J	0.17 J	--	--	1.7	2.5
	Fluorene	0.44 J	2.1 U	0.0098 J	0.1 U	0.081 J	0.019 J	--	--	0.54	1
	Indeno(1,2,3-cd)pyrene	0.77 J	1.9 J	0.02 J	0.085 J	0.21 J	0.069 J	--	--	0.6	0.69

Table 11: Sediment Sampling Results
Trotsky Inlet

Group	Parameter	SED-1 (mg/kg DW)	SED-2 (mg/kg DW)	SED-3 (mg/kg DW)	SED-4 (mg/kg DW)	SED-4-FD (mg/kg DW)	SED-5 (OUTFALL) (mg/kg DW)	SQS (mg/kg DW)	CSL (mg/kg DW)	LAET (mg/kg DW)	2LAET (mg/kg DW)
	Naphthalene	0.84 J	2.1 U	0.017 J	0.034 J	0.1 U	0.035 J	--	--	2.1	2.4
	Pentachlorophenol	14 J	21 U	0.49 U	1 U	1 U	1 U	0.36	0.69	--	--
	Phenanthrene	1.4 J	0.72 J	0.032 J	0.057 J	0.8 J	0.097 J	--	--	1.5	5.4
	Phenol	0.74 J	6.2 U	0.024 J	0.3 U	0.3 U	0.3 U	0.42	1.2	--	--
	Pyrene	1.5 J	7.7 J	0.053 J	0.19 J	0.82 J	0.22 J	--	--	2.6	3.3
TPH	Gasoline Range Organics	20 U	200 J	20 U	20 U	20 U	20 U	--	--	--	--
	Diesel Range Organics	10000 J	6800 J	100 J	380 J	210 J	280 J	--	--	--	--
	Residual Range Organics	20000 J	15000 J	400 J	1500 J	650 J	1200 J	--	--	--	--
Other	Total Solids	57.7%	48.6%	85.5%	84.1%	80.7%	71.7%	--	--	--	--
	Total Organic Carbon	12.00%	6.45%	1.07%	0.95%	1.02%	1.88%	--	--	--	--

Notes:

Table includes all parameters detected in sediment during this study.
Yellow shaded cells are data that exceed one or more cleanup or screening levels.
U = Parameter not detected at the stated reporting level
J = Estimated concentration
SQS = Sediment Quality Standard
CSL = Cleanup Screening Level
LAET = Lowest Apparent Effects Threshold
2LAET = Two times the LAET

Table 12: Sediment Sampling Results, Organic-Carbon Normalized
Trotsky Inlet

All concentrations in mg/kg OC, except as noted

Group	Parameter	SED-1[A]	SED-2[A]	SED-3	SED-4	SED-4-FD	SED-5 (Outfall)	SQS	CSL
	Total Organic Carbon	12.0%	6.45%	0.01	0.95%	1.02%	1.88%		
PCBs	PCB-Aroclor 1242	--	--	20	94	265	32	--	--
	PCB-Aroclor 1254	--	--	34	78	196	69	--	--
	PCB-Aroclor 1260	--	--	21	32	ND	90	--	--
	PCBs, total calc'd	--	--	74	203	461	191	12	65
SVOCs	1,2,4-Trichlorobenzene	--	--	ND	ND	ND	ND	0.81	1.8
	1,2-Dichlorobenzene	--	--	ND	ND	ND	ND	2.3	2.3
	1,4-Dichlorobenzene	--	--	ND	ND	ND	ND	3.1	9
	2-Methylnaphthalene	--	--	ND	2.9	3.1	1.9	38	64
	Acenaphthene	--	--	1.1	ND	4.0	ND	16	57
	Acenaphthylene	--	--	ND	ND	ND	ND	66	66
	Anthracene	--	--	1.1	2.4	15	1.9	220	1200
	Benzo(a)anthracene	--	--	1.8	9.2	33	3.6	110	270
	Benzo(a)pyrene	--	--	1.8	9.5	25	3.7	99	210
	Benzo(b)fluoranthene	--	--	2.9	15	41	6.9	--	--
	Benzo(ghi)perylene	--	--	1.9	9.3	21	5.2	31	78
	Benzo(k)fluoranthene	--	--	1.1	5.6	15	1.9	--	--
	Bis(2-ethylhexyl)phthalate	--	--	13	80	41	117	47	78
	Butylbenzylphthalate	--	--	ND	ND	ND	47	4.9	64
	Chrysene	--	--	2.06	10	28	3.9	110	460
	Dibenzo(a,h)anthracene	--	--	ND	2.1	4.1	ND	12	33
	Dibenzofuran	--	--	0.78	ND	3.4	ND	15	58
	Dimethylphthalate	--	--	ND	1.4	ND	6.9	53	53
	Fuoranthene	--	--	5.0	18	98	9.0	160	1200
	Fluorene	--	--	0.92	ND	7.9	1.0	23	79
	Indeno(1,2,3-cd)pyrene	--	--	1.9	8.9	21	3.7	34	88
	Naphthalene	--	--	1.6	3.6	ND	1.9	99	170
	Phenanthrene	--	--	3.0	6.0	78	5.2	100	480
	Pyrene	--	--	5.0	20	80	12	1000	1400
	Total benzofluoranthenes			4.0	20	56	8.8	230	450
	Total HPAH			23	107	367	50	960	5300
	Total LPAH			7.7	12	105	9.9	370	780

Notes:

Yellow shaded cells are data that exceed the SQS or CSL values.

ND - Not Detected

[A] Organic carbon normalization is not considered to be appropriate for TOC concentrations less than or equal to 0.5% or greater than or equal to 4.0%. In these cases, dry weight chemical concentrations were compared to the LAET or 2LAET values (see Table 11).

Table 13: Sediment Sampling Exceedance Summary
Trotsky Inlet

Group	Parameter	Range of Conc'ns (mg/kg DW)	Range of Conc'ns (mg/kg OC)	SQS	SQS Units	Maximum Exceedance Factor	LAET (mg/kg DW)	Maximum Exceedance Factor
Metals	Cadmium	0.153 - 36.3	NA	5.1	mg/kg DW	7.1	--	--
	Chromium	15.1 - 1680	NA	260	mg/kg DW	6.5	--	--
	Copper	19.6 - 1090	NA	390	mg/kg DW	2.8	--	--
	Lead	35.9 - 10400	NA	450	mg/kg DW	**23**	--	--
	Mercury	0.179 - 247	NA	0.41	mg/kg DW	**602**	--	--
	Silver	0.13 - 19	NA	6.1	mg/kg DW	3.1	--	--
	Zinc	43.5 - 4580	NA	410	mg/kg DW	**11**	--	--
PCBs	**Total PCBs**	0.79 - 2930	74 - 461	12	mg/kg OC	**38**	0.13	**22,500**
SVOCs	**1,2,4-Trichlorobenzene**	<0.049 - 0.94	--	--	mg/kg OC	NA	0.031	**30**
	1,2-Dichlorobenzene	<0.049 - 0.67	--	--	mg/kg OC	NA	0.035	**19**
	1,4-Dichlorobenzene	<0.049 - 1.1	--	--	mg/kg OC	NA	0.11	**10**
	2-Methylnaphthalene	0.028 - 1.6	1.9 - 3.1	38	mg/kg OC	<1	0.67	2.4
	Benzo(a)anthracene	0.019 - 4.2	1.8 - 33	110	mg/kg OC	<1	1.3	3.2
	Benzo(a)pyrene	0.019 - 3.3	1.8 - 25	99	mg/kg OC	<1	1.6	2.1
	Benzo(ghi)perylene	0.02 - 2.2	1.9 - 21	31	mg/kg OC	<1	0.67	3.3
	Bis(2-ethylhexyl)phthalate	0.14 - 17	13 - 80	47	mg/kg OC	1.7	1.3	**13**
	Butylbenzylphthalate	<0.049 - 3.3	NA	NA	mg/kg OC	NA	0.063	**52**
	Chrysene	0.022 - 4.8	2.1 - 28	110	mg/kg OC	<1	1.4	3.4
	Dibenzo(a,h)anthracene	<0.049 - 0.57	2.1 - 4.1	12	mg/kg OC	<1	0.23	2.5
	Dimethylphthalate	<0.049 - 0.44	1.4	53	mg/kg OC	<1	0.071	6.2
	Fluoranthene	0.054 - 7.3	5.0 - 98	160	mg/kg OC	<1	1.7	4.3
	Indeno(1,2,3-cd)pyrene	0.02 - 0.77	1.9 - 21	34	mg/kg OC	<1	0.6	1.3
	Pentachlorophenol	<0.49 - 14	NA	0.36	mg/kg DW	**39**	--	--
	Phenol	0.024 - 0.74	NA	0.42	mg/kg DW	1.8	--	--
	Pyrene	0.053 - 7.7	5.0 - 80	1000	mg/kg OC	<1	2.6	3.0

Notes:

1 - Exceedance factors were calculated as the maximum detected concentration divided by the SQS or LAET
2 - Maximum exceedance values indicate the largest exceedance factor for each parameter across all samples
3 - Exceedance factors greater than 1 are highlighted in yellow; chemicals of greatest concern (i.e., exceedance factors >10) are shown in Bold
4 - For samples SED-1 and SED-2, which had TOC concentrations >4%, organic carbon normalization was considered inappropriate; therefore, chemicals detected in these two samples for which the SQS is expressed in units of mg/kg OC were compared to the LAET instead.

NA = Not applicable

Table 14: Seep Sampling Exceedance Summary
Trotsky Inlet

Group	Parameter	Range of Conc'ns (ug/L)	MTCA Method A Groundwater Cleanup Level (ug/L)	Maximum Exceedance Factor	MTCA Method B Groundwater Cleanup Level (ug/L)	Maximum Exceedance Factor	Draft Groundwater-to-Sediment Screening Levels[A] (ug/L)	Maximum Exceedance Factor
Metals, Total	**Arsenic**	<5 - 7.51	5	1.5	0.058	**129**	370	<1
	Mercury	< 0.0021 - 0.04	2	<1	4.8	<1	0.0074	5.4
PCBs	PCB-Aroclor 1260	<0.02 - 0.5	--	--	--	--	0.31	1.6
	Total PCBs	0.0254 - 0.5	0.1	5.0	0.044	**11**	1.5	<1

Notes:

Exceedance factors were calculated as the maximum detected concentration divided by the MTCA cleanup level or groundwater-to-sediment screening level
Maximum exceedance value indicates the largest exceedance factor for each parameter across all samples
Exceedance factors greater than 1 are highlighted in yellow; chemicals of greatest concern (i.e., exceedance factors >10) are shown in **Bold**
[B] SAIC 2006; draft groundwater-to-sediment screening levels based on SMS CSL values

Table 15: Outfall Sampling Exceedance Summary
Trotsky Inlet

Group	Parameter	Outfall Solids Conc'n (mg/kg DW)	Outfall Solids Conc'n (mg/kg OC)]	SQS (mg/kg DW)	SQS (mg/kg OC)	Maximum Exceedance Factor	Outfall Water Concentration (ug/L)	MTCA Groundwater Cleanup Level[A] (ug/L)	Maximum Exceedance Factor	Draft Groundwater-to-Sediment Screening Levels[B] (ug/L)	Maximum Exceedance Factor
Metals	**Arsenic**	7.8	--	57	--	<1	9.07	0.058	**156**	370	<1
PCBs	**Total PCBs**	3.6	191	--	12	**16**	--	--	**--**	--	--
SVOCs	Bis(2-ethylhexyl)phthalate	2.2	117	--	47	2.5	<3.7	6.3	<1	0.47	<1
	Butylbenzylphthalate	0.88	47	--	4.9	9.6	0.073	3200	<1	6.8	<1

Notes:

Exceedance factors were calculated as the maximum detected concentration divided by the MTCA cleanup level or groundwater-to-sediment screening level
Maximum exceedance value indicates the largest exceedance factor for each parameter across all samples
Exceedance factors greater than 1 are highlighted in yellow; chemicals of greatest concern (i.e., exceedance factors >10) are shown in **Bold**
[A] MTCA Groundwater Cleanup Level is lower of Method A and Method B
[B] SAIC 2006; draft groundwater-to-sediment screening levels based on SMS CSL values

Table 16: Soil Sampling Results
Douglas Management Company Property

All concentrations in mg/kg DW, except as noted

Group	Parameter	MW-08-30	MW-09-15	MW-10-20	MW-11-15	MW-12-15	MW-12-25	MTCA Soil Cleanup Levels		Draft Soil-to-Sediment Screening Levels [A]	Sediment Quality Standard (SQS)
		6/18/2008	6/18/2008	6/18/2008	6/19/2008	6/19/2008	6/19/2008	Method A (unrestricted land use)	Method B		
Metals	Arsenic	19.7	7.28	10.5	3.72	4	4.66	20	0.67	590	57
	Cadmium	1.66 J	0.348 J	0.16 J	0.146	0.43	0.181	2	80	1.7	5.1
	Chromium	69.5	20.6	22.7	13.3	16.7	12.1	19	240	270	260
	Copper	42.9	28.7	37.6	17.3	23.3	18.2	--	3000	39	390
	Lead	562 J	11.6 J	10.9 J	5.81	22.5	15	250	--	67	450
	Mercury	0.165	0.129	0.635	0.068	0.098	0.135	2	24	0.03	0.41
	Silver	0.303	0.231	0.112	0.087	0.065	0.056	--	400	0.61	--
	Zinc	835	64.7	48.4	41.5	119	40.4	--	24000	38	410
PCBs	PCB-Aroclor 1248	0.0078 U	0.081 U	15	0.0067 U	0.0059 U	0.8	--	--	0.065	
	PCB-Aroclor 1254	0.08	0.17	12	0.059	0.24	0.53	--	1.6	0.065	
	PCB-Aroclor 1260	0.1	0.12	0.76 U	0.0067 U	0.0059 U	0.4	--	--	0.065	
	PCBs, total calc'd	0.18	0.29	27	0.059	0.24	1.7	--	0.5	0.065	
Pesticides	2,4'-DDD	0.0068 J	0.0037 U	1.3 J	0.0014 U	0.0025 U	0.0085 U	--	4.2	--	
	4,4'-DDD	0.0027	0.0048	0.16	0.0013	0.0016	0.014	--	4.2	--	
	2,4'-DDE	0.001 J	0.0026 U	0.064 U	0.00067 U	0.00059 U	0.00063 U	--	2.9	--	
	4,4'-DDE	0.0015 J	0.0044 U	0.16	0.00067 U	0.00069 U	0.013 J	--	2.9	--	
	2,4'-DDT	0.0061	0.0094	0.48	0.0034	0.013 J	0.022	3	2.9	--	
	4,4'-DDT	0.0027 U	0.019	0.093	0.0035	0.0096	0.021	3	2.9	--	
SVOCs	2-Methylnaphthalene	0.067	0.006 J	0.054	0.0038 J	2.2	0.025	5[C]	320	0.073	
	Acenaphthene	0.014	0.0025 J	0.056	0.0066 U	0.037	0.0028 J	--	4800	0.06	
	Acenaphthylene	0.0057 J	0.0013 J	0.0033 J	0.0066 U	0.03 U	0.0015 J	--	--	0.069	
	Anthracene	0.014	0.0046 J	0.018	0.0022 J	0.021 J	0.0065	--	24000	1.2	
	Benzo(a)anthracene	0.021	0.01	0.015	0.0036 J	0.017 J	0.0098	--	--	0.27	
	Benzo(a)pyrene	0.019	0.006 J	0.0072 J	0.0025 J	0.015 J	0.0069	0.1	0.14	0.21	
	Benzo(b)fluoranthene	0.025	0.0093	0.01	0.004 J	0.021 J	0.0083	--	--	0.45	
	Benzo(ghi)perylene	0.013	0.0071 U	0.0046 J	0.0066 U	0.03 U	0.0049 J	--	--	0.078	
	Benzo(k)fluoranthene	0.0083	0.0032 J	0.0034 J	0.0066 U	0.03 U	0.0029 J	--	--	0.45	
	Bis(2-ethylhexyl)phthalate	0.019 J	0.029 J	0.038 J	0.014 J	0.16 J	0.1	--	71	0.078	
	Chrysene	0.031	0.014	0.016	0.0035 J	0.018 J	0.013	--	--	0.46	
	Dibenzofuran	0.0096	0.0042 J	0.023	0.0018 J	0.022 J	0.0024 J	--	160	0.059	
	Diethylphthalate	0.0079 U	0.0071 U	0.0076 U	0.0017 J	0.03 U	0.0063 U	--	64000	0.36	
	Fluoranthene	0.056	0.025	0.26	0.0091	0.045	0.033	--	3200	1.2	
	Fluorene	0.019	0.004 J	0.035	0.002 J	0.051	0.004 J	--	3200	0.081	
	Indeno(1,2,3-cd)pyrene	0.014	0.0043 J	0.0056 J	0.0066 U	0.03 U	0.0052 J	--	--	0.088	
	Naphthalene	0.065	0.0036 J	0.031	0.0066 U	0.46	0.0075	5[C]	1600	0.2	
	Phenanthrene	0.054	0.017	0.065	0.0076	0.1	0.018	--	--	0.49	
	Pyrene	0.057	0.022	0.17	0.01	0.048	0.027	--	2400	1.4	
	Total cPAHs	0.03	0.010	0.012	0.005	0.028	0.011	0.1[E]	0.14[E]	--	

Table 16: Soil Sampling Results
Douglas Management Company Property

All concentrations in mg/kg DW, except as noted

Group	Parameter	MW-08-30	MW-09-15	MW-10-20	MW-11-15	MW-12-15	MW-12-25	MTCA Soil Cleanup Levels		Draft Soil-to-Sediment Screening Levels [A]	Sediment Quality Standard (SQS)
		6/18/2008	6/18/2008	6/18/2008	6/19/2008	6/19/2008	6/19/2008	Method A (unrestricted land use)	Method B		
TPH	Gasoline Range Organics-NWTPH	7.7 J	20 U[D]	20 U[D]	20 U[D]	100 J	20 U[D]	30	--	--	
	Diesel Range Organics	670 J	43	72	50 U[D]	410 J	90	2000	--	--	
	Residual Range Organics (Heavy Oil)	970 J	100 J	180 J	100 U[D]	490 J	290 J	2000	--	--	
VOCs	1,2,4-Trimethylbenzene	0.0066 J	0.025 U	0.011 J	0.00017 J	0.38	0.0015 J	--	4000	--	
	1,3,5-Trimethylbenzene	0.0026 J	0.025 U	0.0047 J	0.022 U	0.091 J	0.023 U	--	4000	--	
	1,3-Dichlorobenzene	0.0068 U	0.0062 U	0.00038 J	0.0055 U	0.053 U	0.0056 U	--	--	--	
	1,4-Dichlorobenzene	0.0068 U	0.0062 U	0.00075 J	0.0055 U	0.053 U	0.0056 U	--	42	0.015	
	2-Butanone	0.027 U	0.025 U	0.032 U	0.0042 J	2.1 U	0.0065 J	--	48000	--	
	Acetone	0.047	0.032	0.051	0.027	0.31 J	0.038	--	8000	--	
	Benzene	0.0068 U	0.0062 U	0.052	0.0055 U	0.071	0.014	0.03	18	--	
	Bromomethane	0.0068 U	0.0011 J	0.0012 J	0.0055 U	0.053 U	0.0025 J	--	110	--	
	Carbon Disulfide	0.0014 J	0.002 J	0.0034 J	0.0022 J	0.053 U	0.0039 J	--	8000	--	
	CFC-12	0.0068 U	0.0062 U	0.0079 U	0.0055 U	0.055	0.0097	--	--	--	
	Chloromethane	0.0068 U	0.0062 U	0.0079 U	0.0055 U	0.022 J	0.00048 J	--	77	--	
	Ethylbenzene	0.0024 J	0.00025 J	0.0033 J	0.0055 U	0.085	0.0006 J	6	8000	--	
	Isopropylbenzene (Cumene)	0.0079 J	0.025 U	0.0061 J	0.022 U	0.11 J	0.001 J	--	8000	--	
	m,p-Xylenes	0.0049 J	0.0062 U	0.0034 J	0.00022 J	0.32	0.0016 J	9[B]	16000	--	
	Methylene Chloride	0.014 U	0.00033 J	0.00056 J	0.00041 J	0.095 J	0.0023 J	0.02	130	--	
	Naphthalene	0.0049 J	0.0028 J	0.0072 J	0.0068 J	1.5	0.0095 J	5	1600	0.2	
	n-Butylbenzene	0.00095 J	0.025 U	0.0026 J	0.022 U	0.4	0.0047 J	--	--	--	
	n-Propylbenzene	0.0016 J	0.025 U	0.0028 J	0.022 U	0.54	0.0048 J	--	--	--	
	o-Xylene	0.0024 J	0.0062 U	0.002 J	0.0055 U	0.085	0.00049 J	9[B]	16000	--	
	p-Isopropyltoluene	0.0011 J	0.025 U	0.0026 J	0.022 U	0.21 U	0.023 U	--	--	--	
	Sec-Butylbenzene	0.0013 J	0.025 U	0.0034 J	0.022 U	0.12 J	0.0015 J	--	--	--	
	Tetrachloroethene	0.0068 U	0.0062 U	0.0079 U	0.0055 U	0.016 J	0.0056 U	0.05	1.9	--	
	Toluene	0.00098 J	0.00045 J	0.0014 J	0.00065 J	0.18	0.0014 J	7	6400	--	
Other	Total Solids	64%	70.8%	65.9%	75.2%	84.8%	79.3%	--	--	--	
	Total Organic Carbon	2.26%	0.86%	2.29%	0.52%	1.33%	0.30%	--	--	--	

Notes:

Table includes all parameters detected in soil in at least one sample during this study.
Yellow shaded cells are data that exceed MTCA Method A or Method B soil cleanup levels or draft soil-to-sediment screening levels.
U = Parameter not detected at the stated reporting level
J = Estimated concentration
[A] SAIC 2006; draft soil-to-sediment screening levels based on SMS CSL values and assuming saturated soil conditions.
[B] Method A Soil Cleanup Level is for total xylenes
[C] Method A Soil Cleanup Level is for total naphthalenes
[D] HCID gasoline-range concentration, assuming saturated soil conditions.
[E] For cPAHs, cleanup level for benzo(a)pyrene applies to total cPAHs calculated using the toxicity equivalency method.

Table 17: Soil Sampling Exceedance Summary
Douglas Management Company Property

Group	Parameter	Range of Conc'ns (mg/kg)	MTCA Method A Soil Cleanup Level (mg/kg)	Maximum Exceedance Factor	MTCA Method B Soil Cleanup Level (mg/kg)	Maximum Exceedance Factor	Draft Soil-to-Sediment Screening Level[A] (mg/kg)	Maximum Exceedance Factor
Metals	**Arsenic**	3.72 - 19.7	20	<1	0.67	**29**	590	<1
	Chromium	12.1 - 69.5	19	3.7	240	<1	270	<1
	Copper	17.3 - 42.9	--	--	3000	<1	39	1.1
	Lead	5.81 - 562	250	2.2	--	--	67	8.4
	Mercury	0.068 - 0.635	2	<1	24	<1	0.03	**21**
	Zinc	40.4 - 835	--	--	24000	<1	38	**22**
PCBs	**PCB-Aroclor 1248**	<0.0059 - 0.8	--	--	--	--	0.065	**12**
	PCB-Aroclor 1254	0.059 - 12	--	--	1.6	7.5	0.065	**185**
	PCB-Aroclor 1260	<0.0059 - 0.4	--	--	--	--	0.065	6.2
	Total PCBs	0.059 - 27	--	--	0.5	**54**	0.065	**415**
SVOCs	**2-Methylnaphthalene**	0.0038 - 2.2	5[B]	<1	320	<1	0.073	**30**
	Bis(2-ethylhexyl)phthalate	0.014 - 0.16	--	--	71	<1	0.078	2.1
	Naphthalene	0.0036 - 0.46	5[B]	<1	1600	<1	0.2	2.3
	Total cPAHs	0.037 - 0.12	0.1[C]	1.2	0.14[C]	<1	--	--
TPH	Gasoline Range Hydrocarbons	7.7 - 100	30	3.3	--	--	--	--
VOCs	Benzene	<0055 - 0.071	0.03	2.4	18	<1	--	--
	Naphthalene	0.0028 - 1.5	5	<1	1600	<1	0.2	7.5

Notes:

Table includes all parameters detected in soil that exceed cleanup/screening levels in at least one sample.
Exceedance factors were calculated as the maximum detected concentration divided by the MTCA cleanup level or soil-to-sediment screening level
Maximum exceedance value indicates the largest exceedance factor for each parameter across all samples;
Exceedance factors greater than 1 are highlighted in yellow; chemicals of greatest concern (i.e., exceedance factors >10) are shown in **Bold**

[A] SAIC 2006; draft soil-to-sediment screening levels based on SMS CSL values and assuming saturated soil conditions.

[B] Method A Soil Cleanup Level is for total naphthalenes

[C] For cPAHs, cleanup level for benzo(a)pyrene applies to total cPAHs calculated using the toxicity equivalency method.

Table 18: Water Sampling Results
Douglas Management Company Property

All concentrations in ug/L, except as noted.

Group	Parameter	MW-01	MW-03	MW-04	MW-04-FD	MW-05	MW-08	MW-09	MW-10	MW-11	MW-12	SP-01	MTCA Groundwater Cleanup Levels		Draft Groundwater-to-Sediment Screening Levels[A]
		7/16/2008	7/16/2008	7/16/2008	7/16/2008	7/17/2008	7/17/2008	7/17/2008	7/17/2008	7/17/2008	7/16/2008	7/18/2008	Method A	Method B	
Metals	Arsenic	5 U	5 U	5 U	5 U	5 U	5 U	5.4	5 U	5 U	5 U	5 U	5	0.058	370
	Cadmium	0.02 U	0.02 U	0.02 U	0.02 U	0.04	0.02 U	0.03	0.03	0.02 U	0.02 U	0.02 U	5	8	3.4
	Chromium	1.3	3.5	2.2	2.4	15.1	1.3	1.2	0.7	0.5	1.3	0.7	50	48	320
	Copper	0.3	2	0.3	0.2	1.6	0.5	0.9	0.3	0.9	0.5	1.6	--	590	120
	Lead	0.03	0.31	0.11	0.11	1.4	1.61	0.76	0.1	0.03	0.5	0.75	15	--	13
	Mercury	0.001 U	0.0026	0.001 U	0.0011	0.005	0.0025	0.0071	0.001	0.0012	0.0029	0.0021	2.0	4.8	0.0074
	Silver	0.02 U	0.02 U	0.02 U	0.02 U	0.04	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	--	80	1.5
	Zinc	0.7	6	1.1	1.4	13.2	6.5	4.6	1.3	8.3	2.5	4.1	--	4800	76
PCBs	PCB-aroclor 1242	0.02 U	0.02 U	0.02 U	0.02 U	0.023 U	0.02 U	0.02 U	0.11	0.02 U	0.1	0.02 U	--	--	--
	PCB-aroclor 1248	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.034	0.02 U	0.02 U	0.02 U	0.02 U	--	--	1.5
	Total PCBs	NA	NA	NA	NA	NA	NA	0.034	0.11	NA	0.1	NA	0.1	0.044	1.5
Pesticides	2,4'-DDT	0.0005 U	0.00049 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0016 U	0.00062 U	0.0005 U	0.0015	0.0005 U	0.3	0.26	--
	4,4'-DDT	0.0005 U	0.00049 U	0.002 U	0.0013 U	0.0014 U	0.0005 U	0.00049 U	0.0005 U	0.0005 U	0.0024 J	0.0005 U	0.3	0.26	--
	Dieldrin	0.0005 U	0.0041 J	0.0005 U	0.0005 U	0.004 J	0.0011 U	0.0012 U	0.0005 U	0.0005 U	0.0015 U	0.0038 U	--	0.0055	--
	Heptachlor	0.0005 U	0.00049 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.002 U	0.0013 J	0.0005 U	0.0005 U	0.00088 U	--	0.019	--
SVOCs	2-Methylnaphthalene	0.19 U	0.26	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.3	0.2 U	--	32	31
	Acenaphthene	0.19 U	5.7	0.2 U	0.2 U	0.2 U	0.2 U	0.28	0.68	0.2 U	0.19 U	0.35	--	--	9.3
	Isophorone	NR	NR	NR	NR	0.2	0.2 U	0.2 U	0.2 U	0.2 U	NR	0.2 U	--	46	--
	Naphthalene	0.19 U	8.9	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	160	160	92
	Phenanthrene	0.19 U	2	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	--	--	23
	Phenol	0.48 U	2.2	3	2.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.48 U	0.5 U	--	4800	220
TPH	Gasoline Range Organics	--	--	350 J	350 J	--	--	--	--	--	250 U	--	800	--	--
	Diesel Range Organics	250 U	--	730 J	720 J	750 J	--	--	--	--	680 J	--	500	--	--
VOCs	1,2-Dichloroethane	0.5 U	2.5	2.9	2.9	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.5	0.5 U	5	--	--
	1,3,5-Trimethylbenzene	2 U	2 U	2.3	2.3	2 U	2 U	2 U	2 U	2 U	2 U	2 U	--	400	--
	Acetone	20 U	20 U	20 U	22	20 U	20 U	20 U	20 U	20 U	20 U	20 U	--	800	--
	Benzene	0.5 U	89	100	99	0.5 U	0.5 U	0.8	1.1	0.5 U	59	0.5 U	5	0.8	--
	Chloroform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	3.6	0.5 U	1.7	--	7.2	--
	Ethylbenzene	0.5 U	0.5 U	0.89	0.91	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	700	800	--
	m, p-Xylene	0.5 U	1.9	15	15	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1000[B]	1600[B]	--
	Naphthalene	2 U	13	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	160[C]	160	92
	n-Butylbenzene	2 U	2 U	3.5	3.4	2 U	2 U	2 U	2 U	2 U	2 U	2 U	--	--	--
	o-Xylene	0.5 U	0.78	1.6	1.6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1000[B]	1600[B]	--
	Toluene	0.5 U	0.89	3.9	4.1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.73	0.5 U	1000	640	--
Conventionals	Chloride	1420000	15500	25600	25400	268000	1820000	2030000	1150000	1800000	99000	541000	--	--	--

Notes:

Table includes all parameters detected in groundwater in at least one sample during this study.
Yellow shaded cells are data that exceed MTCA Method A or Method B groundwater cleanup levels.
No data exceeded the draft groundwater-to-sediment screening levels.
NA - Not applicable. Total PCBs were calculated as the sum of detected Aroclors; therefore, if no Aroclors were detected, total PCBs were not calculated.
U = Parameter not detected at the stated reporting level.
J = Estimated concentration.
[A] SAIC 2006; draft groundwater-to-sediment screening levels are based on SMS CSL values.
[B] Method A and Method B groundwater cleanup level is for total xylenes.
[c] Method A groundwater cleanup level is for total naphthalenes.

Table 19: Groundwater Sampling Exceedance Summary
DMC Property

Group	Parameter	Range of Conc'ns (ug/L)	MTCA Method A Groundwater Cleanup Level (ug/L)	Maximum Exceedance Factor	MTCA Method B Groundwater Cleanup Level (ug/L)	Maximum Exceedance Factor	Groundwater-to-Sediment Screening Levels[A] (ug/L)	Maximum Exceedance Factor
Metals, Total	**Arsenic**	<5 - 5.4	5	1.1	0.058	**93**	370	<1
PCBs	PCBs-Total, calc'd	0.034 - 0.11	0.1	1.1	0.044	2.5	1.5	<1
TPH	Diesel Range Organics	<250 - 750	500	1.5	--	--	--	--
VOCs	**Benzene**	<0.5 - 100	5	**20**	0.8	**125**	--	--

Notes:

Exceedance factors were calculated as the maximum detected concentration divided by the MTCA cleanup level or groundwater-to-sediment screening level
Maximum exceedance value indicates the largest exceedance factor for each parameter across all samples
Exceedance factors greater than 1 are highlighted in yellow; chemicals of greatest concern (i.e., exceedance factors >10) are shown in **Bold**
[A] SAIC 2006; draft groundwater-to-sediment screening levels based on SMS CSL values

Table 20
Summary of Chemical Exceedances

	Maximum Exceedance Factors							
	Trotsky Property		Second Ave. S. Outfall		Trotsky Inlet		DMC Property	
Chemical	**Soil**	**Ground-water**	**Outfall Water**	**Outfall Solids**	**Seeps**	**Sedi-ment**	**Soil**	**Ground-water**
Metals								
Arsenic	17	517	156		129		29	93
Cadmium						7.1		
Chromium	3.0	1.6				6.5	3.7	
Copper	7.3					2.8	1.1	
Lead	12	6.0				23	8.4	
Mercury	67	51			5.4	602	21	
Silver						3.1		
Zinc	5.8	1.2				11	22	
PCBs								
Aroclor 1242	785							
Aroclor 1248							12	
Aroclor 1254	277	1.3					185	
Aroclor 1260	115	1.7			1.6		6.2	
Total PCBs	1,180	103		16	11	22,500	415	2.5
Pesticides								
Aldrin		7.7		NS		NS		
Lindane	1.3			NS		NS		
PAHs								
2-Methylnaphthalene	233	3.5				2.4	30	
Acenaphthene	14							
Benzo(a)anthracene	1.7	81			1.6	3.2		
Benzo(a)pyrene	1.3	71				2.1		
Benzo(b)fluoranthene		62						
Benzo(ghi)perylene	2.8	25				3.3		
Benzo(k)fluoranthene		58						
Chrysene	1.7	83				3.4		
Dibenz(a,h)anthracene		63				2.5		
Dibenzofuran	12							
Fluoranthene	1.6					4.3		
Fluorene	23							
Indeno(1,2,3-cd)pyrene	2.3	68				1.3		
Naphthalene	1.9						7.5	
Phenanthrene	14							
Pyrene	1.9					3.0		
Phthalates								
Bis(2-ethylhexyl)phthalate	2.1	1.8		2.5		13	2.1	
Butylbenzylphthalate	1.7			9.6		52		
Dimethylphthalate						6.2		
Other SVOCs								
1,2,4-Trichlorobenzene	23					30		
1,2-Dichlorobenzene	258					19		
1,4-Dichlorobenzene	160	3.3				10		
2,4-Dimethylphenol		8.0						
2-Methylphenol		2.7						
Hexachlorobenzene		26						
N-Nitrosodiphenylamine		2.0						
Pentachlorophenol	10	32				39		
Phenol						1.8		
Petroleum Hydrocarbons								
TPH-gasoline	8.7	7.9						
TPH-diesel	7.5	1.8						1.5
TPH-residual	25	1.4						
VOCs								
Benzene	NA[1]	NA[1]	NA[1]	NA[1]	NA[2]	NA[1]	2.4	125

Notes:

Table lists only exceedance factors >1

NA - Not analyzed

NS - No screening level available

[1] VOCs were analyzed for only in samples collected in 2008 at the DMC property.

[2] Analyzed only in SP-1, the seep located along the northern side of the Trotsky inlet