

APPENDIX G

**CHEMICAL CONTAMINANT
CHARACTERISTICS**

Appendix G

Contaminant Physical/Chemical Characteristics
New Bedford, Massachusetts

OIL OR HAZARDOUS MATERIAL	CAS	SOLUBILITY µg/L	VAPOR PRESSURE mmHg 20-30 C	HENRY'S LAW CONSTANT atm-m ³ /mol	log K _{ow}	K _{oc} ml/g	SPECIFIC GRAVITY (g/cm ³ at 20 C)
ARSENIC	7440-38-2	0.00			0.68	0	5.72
BARIUM	7440-39-3	0.00			0.23		3.51
BENZO(a)ANTHRACENE	56-55-3	9.40	5.00E-09	1.20E-05	5.76	358,000	1.27
BENZO(a)PYRENE	50-32-8	1.62	5.00E-09	4.57E-07	6.13	969,000	1.35
BENZO(b)FLUORANTHENE	205-99-2	1.50		6.57E-07	5.78	1,230,000	
BENZO(k)FLUORANTHENE	207-08-9	0.80	9.59E-11	5.84E-07	6.11	1,230,000	
CADMIUM	7440-43-9	0.00			-0.07	0	8.64
CHROMIUM (TOTAL)	7440-47-3	0.00			0.23	0	7.20
CHRYSENE	218-01-9	2.00	6.30E-09	5.23E-06	5.81	398,000	
DIBENZO(a,h)ANTHRACENE	53-70-3	2.49	1.00E-10	1.23E-07	6.75	1,790,000	1.28
INDENO(1,2,3-cd)PYRENE	193-39-5	0.19	1.00E-09	3.48E-07	6.7	3,470,000	
LEAD	7439-92-1	0.00			0.73	0	11.30
MERCURY	7439-97-6	60.00	1.20E-03		0.62	0.00	1.15
NAPHTHALENE	91-20-3	31,000.00	8.20E-02	4.40E-04	3.3	1,190	8.90
NICKEL	7440-02-0	0.00			-0.57	0	
VANADIUM	7440-62-2	0					
PHENANTHRENE	85-01-8	1,150.00	9.60E-04	4.23E-05	4.46	14,000	1.18
POLYCHLORINATED BIPHENYLS (PCBs)	1336-36-3	700.00	7.71E-05	4.15E-04	7.1	309,000	1.4 - 1.5
ZINC	7440-66-6	0.00			-0.47	0.00	