Table 2.2-1
Summary of Portland Harbor PRGs by RAO and Media
Portland Harbor Superfund Site
Portland, Oregon

	HUMAN HEALTH									ECOLOGICAL								HUMAN HEALTH & ECOLOGICAL	
	RAO 1			RAO 2			RAO 3		RAO 4	RAO 5		RAO 6		RAO 7		RAO 8		RAO 9	
	Ingestion/Direct Contact			Fish/Shellfish Consumption			Protected Water Uses		Migration of Contaminated Groundwater	Direct Contact/Ingestion		Biota (Predator) Ingestion		Direct Contact/Ingestion		Direct Contact/Ingestion Migration of Contaminated		Migration of Contaminants	
Contaminant	**Units**	**Beach**	**Sediment**	**Units**	**Tissue**	**Sediment**	**Units**	**Surface Water**	**Units**	**Groundwater**	**Units**	**Sediment**	**Units**	**Sediment**	**Units**	**Surface Water**	**Units**	**Pore Water**	**Units**	**River Bank Soil/Sediment**
Aldrin				µg/kg	0.06	2	µg/L	0.00000077											µg/kg	2
Arsenic	mg/kg	3	3	mg/kg	0.001		µg/L	0.02	µg/L	0.02							µg/L	150	mg/kg	3
Benzene									µg/L	0.4							µg/L	130		
BEHP				ug/kg	72		µg/L	0.2			µg/kg	135			µg/L	3			µg/kg	135
Cadmium											mg/kg	5					µg/L	0.091	mg/kg	5
Chlordanes				µg/kg	3	1.5	µg/L	0.000081			µg/kg	18							µg/kg	1.5
Chlorobenzene									µg/L	74							µg/L	64		
Chromium							µg/L	100	µg/L	100							µg/L	11[3,4]		
Copper									µg/L	1,300	mg/kg	149			µg/L	3	µg/L	2.74[3]	mg/kg	149
Cyanide									µg/L	4							µg/L	5.2		
DDx				µg/kg	3	6.1					µg/kg	63	µg/kg	2,849	µg/L	0.01	µg/L	0.001	µg/kg	6.1
DDD							µg/L	0.000031	µg/L	0.00003										
4,4´-DDE													µg/kg	2.8						
DDE							µg/L	0.000018	µg/L	0.00002	µg/kg	31	µg/kg	144						
DDT							µg/L	0.000022	µg/L	0.00002							µg/L	0.001		
1,1-DCE									µg/L	7							µg/L	25		
cis-1,2-DCE									µg/L	9.9							µg/L	590		
Dieldrin				µg/kg	0.06	0.07					µg/kg	62							µg/kg	0.07
2,4-D									µg/L	70										
Ethylbenzene									µg/L	68					µg/L	7	µg/L	7.3		
Hexachlorobenzene				µg/kg	0.6	0.3	µg/L	0.00003											µg/kg	0.3
Lindane											µg/kg	5							µg/kg	5
Lead											mg/kg	128					µg/L	0.5	mg/kg	128
Manganese									µg/L	50							µg/L	1,433		
MCPP							µg/L	16												
Mercury				mg/kg	0.03						mg/kg	1.1	mg/kg	NA					mg/kg	1.1
Pentachlorophenol				µg/kg	130		µg/L	0.03	µg/L	0.03										
Perchlorate									µg/L	15							µg/L	9,300		
PBDEs				µg/kg	26															
PCBs	µg/kg		370	µg/kg	0.3	9	µg/L	0.000006			µg/kg	64	µg/kg	36	µg/L	0.2	µg/L	0.01	µg/kg	9
PAHs											µg/kg	23,000							µg/kg	23,000
cPAHs (BaP eq)	µg/kg	12	106	µg/kg	7.1	3,950	µg/L	0.00012	µg/L	0.00012									µg/kg	12
Acenaphthene																	µg/L	23		
Acenaphthylene																				
Anthracene																	µg/L	0.73		
Benzo(a)anthracene							µg/L	0.0012	µg/L	0.0012					µg/L	0.027	µg/L	0.03		
Benzo(a)pyrene							µg/L	0.00012	µg/L	0.00012					µg/L	0.014	µg/L	0.01		
Benzo(b)fluoranthene							µg/L	0.0012	µg/L	0.0012							µg/L	0.68		
Benzo(g,h,i)perylene																	µg/L	0.44		
Benzo(k)fluoranthene							µg/L	0.0013	µg/L	0.0013							µg/L	0.64		
Chrysene							µg/L	0.0013	µg/L	0.0013							µg/L	2		
Dibenz(a,h)anthracene							µg/L	0.00012	µg/L	0.00012							µg/L	0.28		
Fluoranthene																	µg/L	6.2		
Fluorene																	µg/L	3.9		
Indeno(1,2,3-c,d)pyrene							µg/L	0.0012	µg/L	0.0012							µg/L	0.28		
2-Methylnaphthalene																	µg/L	2.1		
Naphthalene															µg/L	12	µg/L	12		
Phenanthrene																	µg/L	6.3		
Pyrene																	µg/L	10		
Dioxins/Furans (2,3,7,8-TCDD eq)	µg/kg		0.01				µg/L	0.0000000005												
1,2,3,4,7,8-HxCDF				µg/kg	0.00006	0.000002							µg/kg	0.03					µg/kg	0.000002
1,2,3,7,8-PeCDD				µg/kg	0.000006	0.0001							µg/kg	0.001					µg/kg	0.0001
2,3,4,7,8-PeCDF				µg/kg	0.00002	0.0002							µg/kg	0.004					µg/kg	0.0002
2,3,7,8-TCDF				µg/kg	0.00006	0.0004							µg/kg	0.004					µg/kg	0.0004
2,3,7,8-TCDD				µg/kg	0.000006	0.0001							µg/kg	0.0008					µg/kg	0.0001
PCE									µg/L	0.2										
Toluene									µg/L	57							µg/L	9.8		
TPH C10-C12 Aliphatic																	µg/L	2.6		
TBT											mg/kg	24			µg/L	0.06			mg/kg	24
TCE									µg/L	0.6							µg/L	47		
2,4,5-TP									µg/L	50										
Vanadium																	µg/L	20		
Vinyl Chloride									µg/L	0.02							µg/L			
Xylenes									µg/L	10,000							µg/L	13		
Zinc											mg/kg	459			µg/L	36.5[3]	µg/L	36.5	mg/kg	459

Notes:

NA - Not available

1 - Tissue values are for methyl mercury.

2 - The PRG is less than the achievable detection limit; thus, the PRG is evaluated at the established detection limit from the background data set.

3 - This value is for the dissolved fraction.

4 - Criterion is applied as hexavalent chromium.