Table 2.2-6
RAO 3 PRG Derivation
Portland Harbor Superfund Site
Portland, Oregon

COCs	Units	RAO 3 Reduce cancer risk and noncancer hazards to people from direct contact (ingestion, inhalation, and dermal contact) with contaminants in surface water, and via consumption of fish and shellfish by reducing the concentrations of COCs in surface water at the site to the proposed remediation goals. These goals are protective of use of the Willamette River as a potential drinking water source, as well as for human consumption of fish and shellfish caught in the Willamette River.			
		Surface Water			
		RSL	ARAR (MCL)	ARAR (AWQC)	PRG
Arsenic	µg/L	0.045	10	2.1	2.1
Chromium	µg/L	NA	100	NA	100
Manganese	µg/L	320	NA	NA	320
Zinc	µg/L	NA	5,000	2,100	2,100
Cyanide	µg/L	160	200	130	130
Perchlorate	µg/L	11	15	NA	15
Aldrin	µg/L	0.004	NA	0.000005	0.000005
Benzene	µg/L	0.39	5	0.44	0.44
Chlordanes	µg/L	0.19	2	0.000081	0.000081
Chlorobenzene	µg/L	72	100	74	74
Chloroform	µg/L	0.19	80	260	80
Dioxins/Furans (2,3,7,8-TCDD Eq)	µg/L	0.00000052	0.00003	5.1E-10	5.10E-10
1,2-Dichlorobenzene	µg/L	280	600	110	110
DDx	µg/L	0.2	NA	0.000022	0.000022
1,1-Dichloroethene	µg/L	280	7	230	7
cis-1,2-Dichloroethene	µg/L	28	70	NA	70
2,4-D	µg/L	1,300	70	100	70
Dieldrin	µg/L	0.0015	NA	0.0000053	0.0000053
Ethylbenzene	µg/L	1.3	700	160	160
Bis-2-Ethylhexylphthalate	µg/L	5.6	6	0.2	0.2
Hexachlorobenzene	µg/L	0.42	1	0.000029	0.000029
gamma-Hexachlorocyclohexane	µg/L	0.036	0.2	0.17	0.17
MCPP	µg/L	12	NA	NA	12
Pentachlorophenol	µg/L	0.035	1	0.15	0.15
PCBs	µg/L	0.17	0.5	0.0000064	0.0000064
cPAHs (BaP Eq)	µg/L	0.0029	0.2	0.0013	0.0013
Tetrachloroethene	µg/L	9.7	5	0.24	0.24
Toluene	µg/L	860	1,000	720	720
1,1,1- Trichloroethane	µg/L	7,500	200	NA	200
Trichloroethene	µg/L	0.44	5	1.4	5
2,4,5-TP	µg/L	84	50	10	10
Vinyl chloride	µg/L	0.015	2	0.023	2
o-Xylene	µg/L	190	NA	NA	190
m- and p-Xylene	µg/L	NA	NA	NA	NA
Total Xylenes	µg/L	190	10,000	NA	10,000

Notes:
NA - Not available