

**Table 3 Tier 1 Environmental Quality Standards for Surface Water (µg/L)**

Land Use / Receptor		Surface Water	
Pathway		Fresh Water	Marine Water
Parameter	Units	Value	Value
<b><i>Inorganic Parameters</i></b>		<b>Value</b>	<b>Value</b>
Aluminum	ug/L	5	-
Antimony	ug/L	20	500
Arsenic	ug/L	5.0	12.5
Barium	ug/L	1000	500
Beryllium	ug/L	5.3	100
Boron	ug/L	1,200	1,200
Cadmium	ug/L	0.01	0.12
Chromium (hexavalent)	ug/L	1.0	1.5
Chromium (total)	ug/L	-	-
Cobalt	ug/L	10	-
Copper	ug/L	2	2
Cyanide	ug/L	5	1
Iron	ug/L	300	-
Lead	ug/L	1	2
Manganese	ug/L	820	-
Mercury (total)	ug/L	0.026	0.016
Methylmercury	ug/L	0.004	0.004
Molybdenum	ug/L	73	-
Nickel	ug/L	25	8.3
Selenium	ug/L	1.0	2
Silver	ug/L	0.1	1.5
Strontium	ug/L	21,000	-
Thallium	ug/L	0.8	21.3
Tin	ug/L	-	-
Uranium	ug/L	300	100
Vanadium	ug/L	6	50
Zinc	ug/L	30	10
<b><i>Petroleum Hydrocarbons (PHC) Parameters</i></b>			
Benzene	ug/L	2,100	2,100
Toluene	ug/L	770	770
Ethylbenzene	ug/L	320	320
Xylene	ug/L	330	330
Modified TPH (Gas)	ug/L	1,500	1,500
Modified TPH (Fuel)	ug/L	100	100
Modified TPH (Lube)	ug/L	100	100
MTBE	ug/L	10,000	5,000
<b><i>Polycyclic Aromatic Hydrocarbons (PAH) Parameters</i></b>			
<b><i>PAH Compounds</i></b>			
Naphthalene	ug/L	1.1	1.4

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1 - Methylnaphthalene	ug/L	2	1
2 - Methylnaphthalene	ug/L	2	2
Acenaphthene	ug/L	5.8	6
Acenaphthylene	ug/L	4.6	6
Anthracene	ug/L	0.012	-
Fluoranthene	ug/L	0.04	11
Fluorene	ug/L	3	12
Phenanthrene	ug/L	0.4	4.6
Pyrene	ug/L	0.025	0.02
<b><i>Carcinogenic PAHCompounds</i></b>			
BaP Total Potency Equivalents	ug/L	-	-
Benz[a]anthracene	ug/L	0.018	-
Benzo[a]pyrene	ug/L	0.015	0.01
Benzo[b,j,k]fluoranthene isomers	ug/L	0.48	-
Benzo[g,h,i]perylene	ug/L	0.17	-
Chrysene	ug/L	1.4	0.1
Dibenz[a,h]anthracene	ug/L	0.26	-
Indeno[1,2,3-c,d]pyrene	ug/L	0.21	-
<b><i>Volatile Organic Compound (VOC) Parameters</i></b>			
Bromodichloromethane	ug/L	200	6,400
Bromoform	ug/L	60	6,400
Bromomethane	ug/L	0.9	6,400
Carbon Tetrachloride (Tetrachloromethane)	ug/L	13.3	500
Chlorobenzene	ug/L	1.3	25
Chloroethane	ug/L	1,100	-
Chloroform	ug/L	1.8	6,400
Chloromethane	ug/L	700	6,400
Dibromochloromethane	ug/L	40	6,400
1,2-Dichlorobenzene	ug/L	0.7	42
1,3-Dichlorobenzene	ug/L	150	19.7
1,4-Dichlorobenzene	ug/L	26	19.7
1,1-Dichloroethane	ug/L	200	1,130
1,2-Dichloroethane	ug/L	100	1,130
1,1-Dichloroethylene	ug/L	40	2,240
cis-1,2-Dichloroethylene	ug/L	200	2,240
trans-1,2-Dichloroethylene	ug/L	200	2,240
1,2-Dichloropropane	ug/L	0.7	3,040
1,3-Dichloropropene	ug/L	7	7.9
Ethylene Dibromide	ug/L	5	-
Methylene Chloride (Dichloromethane)	ug/L	98.1	6,400

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Parameter	Units	Value	Value
Styrene	ug/L	72	-
1,1,2,2-Tetrachloroethane	ug/L	70	90.2
Tetrachloroethylene	ug/L	111	450
1,1,1-Trichloroethane	ug/L	10	312
1,1,2-Trichloroethane	ug/L	800	312
Trichloroethylene	ug/L	21	20
Vinyl Chloride	ug/L	600	-
<b>Pesticides</b>			
Aldicarb	ug/L	1	0.15
Aldrin	ug/L	0.01	1.3
Atrazine	ug/L	1.8	12.5
Azinphos-methyl	ug/L	0.01	0.01
Bendiocarb	ug/L	-	-
Bromoxynil	ug/L	5	-
Carbaryl	ug/L	0.2	0.32
Carbofuran	ug/L	1.8	-
Chlorothalonil	ug/L	0.18	0.36
Chlorpyrifos	ug/L	0.0035	0.003
Cyanazine	ug/L	2	-
2,4-D	ug/L	4	-
DDT	ug/L	0.02	0.02
Diazinon	ug/L	0.08	-
Dicamba	ug/L	10	-
Dichlorfop-methyl	ug/L	6.1	-
Dieldrin	ug/L	0.02	0.02
Dimethoate	ug/L	6.2	-
Dinoseb	ug/L	0.05	-
Diquat	ug/L	0.5	-
Diuron	ug/L	1.6	-
Endosulfan	ug/L	0.02	0.0087
Endrin	ug/L	0.02	0.02
Glyphosate	ug/L	65	-
Heptachlor	ug/L	0.002	0.0036
Lindane	ug/L	0.01	-
Linuron	ug/L	7	-
Malathion	ug/L	0.1	-
MCPA	ug/L	2.6	4.2
Methoxychlor	ug/L	0.05	0.05
Metolachlor	ug/L	7.8	-
Metribuzin	ug/L	1	-

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Parameter	Units	Value	Value
Paraquat	ug/L	16	-
Parathion	ug/L	0.008	-
Phorate	ug/L	-	-
Picloram	ug/L	29	-
Simazine	ug/L	10	-
Tebuthiuron	ug/L	1.6	-
Terbufos	ug/L	-	-
Toxaphene	ug/L	0.05	0.05
Triallate	ug/L	0.24	-
Trifluralin	ug/L	0.2	-
<b>Other Parameters</b>			
Polychlorinated Biphenyl (Total PCB)	ug/L	-	-
Dioxins and Furans (TEQ)	ug/L	-	-
Pentachlorophenol (PCP)	ug/L	0.5	7.9
Organotins - Tributyltin	ug/L	0.008	0.001
Ethylene Glycol	ug/L	192,000	-
Propylene Glycol	ug/L	500,000	-
Phenol	ug/L	4,000	-

Notes:

[1] All values in µg/L

[2] "-" = No guideline available or no guideline required

[3] All criteria presented in this table are for aquatic life protection only. For human exposure to surface water via drinking water, refer to the potable groundwater tables