



2013 Tier 1 ESLs

(screening levels resulting from default settings)



EDMUND G. BROWN JR.
GOVERNOR

MATTHEW RODRIGUEZ
SECRETARY FOR
ENVIRONMENTAL PROTECTION

San Francisco Bay Regional Water Quality Control Board

Chemicals	Groundwater (µg/L)	Soil (mg/kg)	Soil Gas (µg/m ³)	Indoor Air (µg/m ³)
Acenaphthene	2.0E+01	1.6E+01	2.6E+05	5.1E+02
Acenaphthylene	3.0E+01	1.3E+01	No Value	No Value
Acetone	1.5E+03	5.0E-01	1.5E+07	3.1E+04
Aldrin	2.0E-03	3.2E-02	1.3E+05	5.0E-04
Anthracene	7.3E-01	2.8E+00	No Value	No Value
Antimony	6.0E+00	2.0E+01	No Value	No Value
Arsenic	1.0E+01	3.9E-01	No Value	5.7E-04
Barium	1.0E+03	7.5E+02	No Value	5.2E-01
Benzene	1.0E+00	4.4E-02	4.2E+01	8.4E-02
Benzo(a)anthracene	2.7E-02	3.8E-01	No Value	2.2E-02
Benzo(b)fluoranthene	5.6E-02	3.8E-01	No Value	2.2E-02
Benzo(k)fluoranthene	5.6E-02	3.8E-01	No Value	2.2E-02
Benzo(g,h,i)perylene	1.0E-01	2.7E+01	No Value	No Value
Benzo(a)pyrene	1.4E-02	3.8E-02	No Value	2.2E-03
Beryllium	5.3E-01	4.0E+00	No Value	1.0E-03
1,1-Biphenyl	5.0E-01	6.5E-01	3.0E+04	6.0E+01
Bis(2-chloroethyl) ether	5.5E-03	7.0E-05	1.7E+00	3.4E-03
Bis(2-chloroisopropyl) ether	1.2E+01	1.3E-01	1.1E+06	2.2E+03
Bis(2-ethylhexyl) phthalate	4.0E+00	1.6E+02	No Value	1.0E+00
Boron	1.6E+00	1.6E+00	No Value	No Value
Bromodichloromethane	8.0E+01	4.8E-01	3.3E+01	6.6E-02
Bromoform (Tribromomethane)	8.0E+01	1.7E+00	6.7E+06	2.2E+00
Bromomethane	7.1E+00	2.8E-01	2.6E+03	5.2E+00
Cadmium (water)	2.5E-01	No Value	No Value	No Value
Cadmium (soil)	No Value	1.2E+01	No Value	5.8E-04
Carbon tetrachloride	5.0E-01	1.1E-01	2.9E+01	5.8E-02
Chlordane	4.0E-03	4.4E-01	4.2E+03	7.2E-03
p-Chloroaniline	5.0E+00	5.3E-02	No Value	No Value
Chlorobenzene	2.5E+01	1.5E+00	5.0E+05	1.0E+03
Chloroethane	1.6E+01	1.1E+00	1.6E+07	3.1E+04
Chloroform	8.0E+01	1.1E+00	2.3E+02	4.6E-01
Chloromethane	1.3E+02	2.0E+01	4.7E+04	9.4E+01
2-Chlorophenol	1.8E-01	1.2E-02	9.5E+03	1.9E+01
Chromium (total)	5.0E+01	1.0E+03	No Value	No Value
Chromium III	1.8E+02	7.5E+02	No Value	No Value
Chromium VI	2.0E-02	8.0E+00	No Value	1.6E-05
Chrysene	3.5E-01	3.8E+00	No Value	2.2E-01
Cobalt	3.0E+00	2.3E+01	No Value	2.7E-04
Copper	3.1E+00	2.3E+02	No Value	No Value
Cyanide	1.0E+00	3.6E-03	3.3E+05	6.5E+02
Dibenz(a,h)anthracene	1.6E-02	1.1E-01	No Value	2.0E-03
Dibromochloromethane	8.0E+01	6.6E+00	No Value	No Value
1,2-dibromo-3-chloropropane	2.0E-01	4.5E-03	6.1E-01	1.2E-03
1,2-Dibromoethane	5.0E-02	3.3E-04	1.7E+01	3.4E-02
1,2-Dichlorobenzene	1.0E+01	1.1E+00	1.0E+05	2.1E+02



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Chemicals	Groundwater (µg/L)	Soil (mg/kg)	Soil Gas (µg/m ³)	Indoor Air (µg/m ³)
1,3-Dichlorobenzene	6.5E+01	7.4E+00	No Value	No Value
1,4-Dichlorobenzene	5.0E+00	5.9E-01	1.1E+02	2.2E-01
3,3-Dichlorobenzidine	5.6E-02	1.5E-02	No Value	8.1E-03
Dichlorodiphenyldichloroethane (DDD)	1.0E-03	2.4E+00	No Value	3.5E-02
Dichlorodiphenyldichloroethene (DDE)	1.0E-03	1.7E+00	No Value	2.5E-02
Dichlorodiphenyltrichloroethane (DDT)	1.0E-03	1.7E+00	No Value	2.5E-02
1,1-Dichloroethane	5.0E+00	2.0E-01	7.6E+02	1.5E+00
1,2-Dichloroethane	5.0E-01	4.5E-03	5.8E+01	1.2E-01
1,1-Dichloroethene	6.0E+00	1.0E+00	1.0E+05	2.1E+02
cis-1,2-Dichloroethene	6.0E+00	1.9E-01	3.7E+03	7.3E+00
trans-1,2-Dichloroethene	1.0E+01	6.7E-01	3.1E+04	6.3E+01
2,4-Dichlorophenol	3.0E-01	3.0E-01	7.0E+05	1.4E+03
1,2-Dichloropropane	5.0E+00	1.2E-01	1.2E+02	2.4E-01
1,3-Dichloropropene	5.0E-01	5.9E-02	7.6E+01	1.5E-01
Dieldrin	1.9E-03	2.3E-03	No Value	5.3E-04
Diethyl phthalate	1.5E+00	3.5E-02	No Value	No Value
Dimethyl phthalate	1.5E+00	3.5E-02	No Value	No Value
2,4-Dimethylphenol	1.0E+02	6.7E-01	5.0E+02	1.0E+00
2,4-Dinitrophenol	1.5E+01	4.2E-02	No Value	No Value
2,4-Dinitrotoluene	9.9E-02	7.4E-04	No Value	2.7E-02
1,4-Dioxane	2.5E+00	1.5E-03	3.1E+08	3.2E-01
Dioxin (2,3,7,8-TCDD)	1.0E-06	4.5E-06	No Value	6.4E-08
Endosulfan	8.7E-03	4.6E-03	No Value	No Value
Endrin	2.3E-03	6.5E-04	No Value	No Value
Ethylbenzene	3.0E+01	3.3E+00	4.9E+02	9.7E-01
Fluoranthene	8.0E+00	4.0E+01	No Value	No Value
Fluorene	3.9E+00	8.9E+00	No Value	No Value
Heptachlor	3.6E-03	1.3E-02	1.5E+05	2.1E-03
Heptachlor epoxide	3.6E-03	1.4E-02	1.5E+05	9.4E-04
Hexachlorobenzene	1.0E+00	3.1E-01	No Value	4.8E-03
Hexachlorobutadiene	8.6E-01	4.3E+00	6.0E+06	1.2E+04
g-Hexachlorocyclohexane (Lindane)	1.6E-02	9.8E-03	No Value	No Value
Hexachloroethane	1.7E+00	5.8E+00	No Value	2.2E-01
Indeno(1,2,3-c,d)pyrene	5.6E-02	3.8E-01	No Value	2.2E-02
Lead	2.5E+00	8.0E+01	No Value	No Value
Mercury (elemental)	2.5E-02	6.7E+00	1.6E+01	3.1E-02
Methoxychlor	3.0E-03	1.9E+01	No Value	No Value
Methylene chloride	5.0E+00	7.7E-02	2.6E+03	5.2E+00
Methyl ethyl ketone	4.9E+03	4.5E+00	2.6E+06	5.2E+03
Methyl isobutyl ketone	1.2E+02	2.8E+00	2.1E+05	4.2E+02
Methyl mercury	3.0E-03	6.1E+00	No Value	No Value
2-Methylnaphthalene	2.1E+00	2.5E-01	3.4E+04	6.8E+01
tert-Butyl methyl ether	5.0E+00	2.3E-02	4.7E+03	9.4E+00
Molybdenum	7.8E+01	4.0E+01	No Value	No Value
Naphthalene	6.1E+00	1.2E+00	3.6E+01	7.2E-02



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Chemicals	Groundwater (µg/L)	Soil (mg/kg)	Soil Gas (µg/m ³)	Indoor Air (µg/m ³)
Nickel	8.2E+00	1.5E+02	No Value	5.2E-02
Pentachlorophenol	1.0E+00	3.0E+00	No Value	4.8E-01
Perchlorate	6.0E+00	5.5E+01	No Value	No Value
Phenanthrene	4.6E+00	1.1E+01	2.8E+04	5.5E+01
Phenol	5.0E+00	7.6E-02	7.8E+04	1.6E+02
Polychlorinated biphenyls (PCBs)	1.4E-02	2.2E-01	No Value	2.4E-02
Pyrene	2.0E+00	8.5E+01	No Value	No Value
Selenium	5.0E+00	1.0E+01	No Value	No Value
Silver	1.9E-01	2.0E+01	No Value	No Value
Styrene	1.0E+01	1.5E+00	4.7E+05	9.4E+02
tert-Butyl alcohol	1.2E+01	7.5E-02	No Value	No Value
1,1,1,2-Tetrachloroethane	5.1E-01	9.1E-03	1.6E+02	3.2E-01
1,1,2,2-Tetrachloroethane	1.0E+00	1.8E-02	2.1E+01	4.2E-02
Tetrachloroethene	5.0E+00	5.5E-01	2.1E+02	4.1E-01
Thallium	2.0E+00	7.8E-01	No Value	No Value
Toluene	4.0E+01	2.9E+00	1.6E+05	3.1E+02
Toxaphene	2.0E-04	4.2E-04	No Value	7.2E-03
TPH gasoline	1.0E+02	1.0E+02	5.0E+04	1.0E+02
TPH diesel	1.0E+02	1.0E+02	6.8E+04	1.4E+02
TPH motor oil	1.0E+02	1.0E+02	No Value	No Value
1,2,4-Trichlorobenzene	5.0E+00	1.5E+00	2.1E+03	4.2E+00
1,1,1-Trichloroethane	6.2E+01	7.8E+00	2.6E+06	5.2E+03
1,1,2-Trichloroethane	5.0E+00	7.0E-02	7.6E+01	1.5E-01
Trichloroethene	5.0E+00	4.6E-01	3.0E+02	5.9E-01
2,4,5-Trichlorophenol	1.1E+01	1.8E-01	No Value	No Value
2,4,6-Trichlorophenol	1.6E+00	5.2E-01	1.5E+02	3.0E-01
Vanadium	1.9E+01	2.0E+02	No Value	No Value
Vinyl chloride	5.0E-01	3.2E-02	1.6E+01	3.1E-02
Xylenes	2.0E+01	2.3E+00	5.2E+04	1.0E+02
Zinc	8.1E+01	6.0E+02	No Value	No Value

Notes: A chemical is considered to be volatile if Henry's Law constant (atm m³/mol) > 10⁻⁵ and molecular weight < 200.

Default settings are indicated on the ESL Input page.

**Summary Table A. Environmental Screening Levels (ESLs)
Shallow Soils (≤3m bgs)
Groundwater is Current or Potential Source of Drinking Water**

Chemical	Shallow Soil				Groundwater (µg/L)	Basis
	Residential Land Use (mg/kg)	Basis	Commercial/ Industrial Land Use (mg/kg)	Basis		
Acenaphthene	1.6E+01	GW Protection	1.6E+01	GW Protection	2.0E+01	Ceiling Value
Acenaphthylene	1.3E+01	GW Protection	1.3E+01	GW Protection	3.0E+01	Aquatic Habitat Goal
Acetone	5.0E-01	GW Protection	5.0E-01	GW Protection	1.5E+03	Aquatic Habitat Goal
Aldrin	3.2E-02	Human Health	1.3E-01	Human Health	2.0E-03	Drinking Water
Anthracene	2.8E+00	GW Protection	2.8E+00	GW Protection	7.3E-01	Aquatic Habitat Goal
Antimony	2.0E+01	Ecotox	4.0E+01	Ecotox	6.0E+00	Drinking Water
Arsenic	3.9E-01	Human Health	1.6E+00	Human Health	1.0E+01	Drinking Water
Barium	7.5E+02	Ecotox	1.5E+03	Ecotox	1.0E+03	Drinking Water
Benzene	4.4E-02	GW Protection	4.4E-02	GW Protection	1.0E+00	Drinking Water
Benzo(a)anthracene	3.8E-01	Human Health	1.3E+00	Human Health	2.7E-02	Aquatic Habitat Goal
Benzo(b)fluoranthene	3.8E-01	Human Health	1.3E+00	Human Health	5.6E-02	Drinking Water
Benzo(k)fluoranthene	3.8E-01	Human Health	1.3E+00	Human Health	5.6E-02	Drinking Water
Benzo(g,h,i)perylene	2.7E+01	GW Protection	2.7E+01	GW Protection	1.0E-01	Aquatic Habitat Goal
Benzo(a)pyrene	3.8E-02	Human Health	1.3E-01	Human Health	1.4E-02	Aquatic Habitat Goal
Beryllium	4.0E+00	Ecotox	8.0E+00	Ecotox	5.3E-01	Aquatic Habitat Goal
1,1-Biphenyl	6.5E-01	GW Protection	6.5E-01	GW Protection	5.0E-01	Ceiling Value
Bis(2-chloroethyl) ether	7.0E-05	GW Protection	7.0E-05	GW Protection	5.5E-03	Drinking Water
Bis(2-chloroisopropyl) ether	1.3E-01	GW Protection	1.3E-01	GW Protection	1.2E+01	Aquatic Habitat Goal
Bis(2-ethylhexyl) phthalate	1.6E+02	Human Health	5.7E+02	Human Health	4.0E+00	Drinking Water
Boron	1.6E+00	Ecotox	2.0E+00	Ecotox	1.6E+00	Aquatic Habitat Goal
Bromodichloromethane	4.8E-01	Human Health	1.5E+00	GW Protection	8.0E+01	Drinking Water
Bromoform (Tribromomethane)	1.7E+00	GW Protection	1.7E+00	GW Protection	8.0E+01	Drinking Water
Bromomethane	2.8E-01	GW Protection	2.8E-01	GW Protection	7.1E+00	Drinking Water
Cadmium (water)		Ceiling Value		Ceiling Value	2.5E-01	Aquatic Habitat Goal
Cadmium (soil)	1.2E+01	Ecotox	1.2E+01	Ecotox	No Value	
Carbon tetrachloride	1.1E-01	GW Protection	1.1E-01	GW Protection	5.0E-01	Drinking Water
Chlordane	4.4E-01	Human Health	1.7E+00	Human Health	4.0E-03	Aquatic Habitat Goal
p-Chloroaniline	5.3E-02	GW Protection	5.3E-02	GW Protection	5.0E+00	Aquatic Habitat Goal
Chlorobenzene	1.5E+00	GW Protection	1.5E+00	GW Protection	2.5E+01	Aquatic Habitat Goal
Chloroethane	1.1E+00	GW Protection	1.1E+00	GW Protection	1.6E+01	Ceiling Value
Chloroform	1.1E+00	Human Health	2.4E+00	GW Protection	8.0E+01	Drinking Water
Chloromethane	2.0E+01	GW Protection	2.0E+01	GW Protection	1.3E+02	Drinking Water
2-Chlorophenol	1.2E-02	GW Protection	1.2E-02	GW Protection	1.8E-01	Ceiling Value
Chromium (total)	1.0E+03	Ceiling Value	2.5E+03	Ceiling Value	5.0E+01	Drinking Water
Chromium III	7.5E+02	Ecotox	7.5E+02	Ecotox	1.8E+02	Aquatic Habitat Goal
Chromium VI	8.0E+00	Ecotox	8.0E+00	Ecotox	2.0E-02	Drinking Water
Chrysene	3.8E+00	Human Health	1.3E+01	Human Health	3.5E-01	Aquatic Habitat Goal
Cobalt	2.3E+01	Human Health	8.0E+01	Ecotox	3.0E+00	Aquatic Habitat Goal
Copper	2.3E+02	Ecotox	2.3E+02	Ecotox	3.1E+00	Aquatic Habitat Goal
Cyanide	3.6E-03	GW Protection	3.6E-03	GW Protection	1.0E+00	Aquatic Habitat Goal
Dibenz(a,h)anthracene	1.1E-01	Human Health	3.8E-01	Human Health	1.6E-02	Drinking Water
Dibromochloromethane	6.6E+00	GW Protection	6.6E+00	GW Protection	8.0E+01	Drinking Water
1,2-dibromo-3-chloropropane	4.5E-03	GW Protection	4.5E-03	GW Protection	2.0E-01	Drinking Water
1,2-Dibromoethane	3.3E-04	GW Protection	3.3E-04	GW Protection	5.0E-02	Drinking Water
1,2-Dichlorobenzene	1.1E+00	GW Protection	1.1E+00	GW Protection	1.0E+01	Ceiling Value
1,3-Dichlorobenzene	7.4E+00	GW Protection	7.4E+00	GW Protection	6.5E+01	Aquatic Habitat Goal
1,4-Dichlorobenzene	5.9E-01	GW Protection	5.9E-01	GW Protection	5.0E+00	Ceiling Value
3,3-Dichlorobenzidine	1.5E-02	GW Protection	1.5E-02	GW Protection	5.6E-02	Drinking Water
Dichlorodiphenyldichloroethane (DDD)	2.4E+00	Human Health	1.0E+01	Human Health	1.0E-03	Aquatic Habitat Goal
Dichlorodiphenyldichloroethane (DDE)	1.7E+00	Human Health	4.0E+00	Ecotox	1.0E-03	Aquatic Habitat Goal
Dichlorodiphenyltrichloroethane (DDT)	1.7E+00	Human Health	4.0E+00	Ecotox	1.0E-03	Aquatic Habitat Goal
1,1-Dichloroethane	2.0E-01	GW Protection	2.0E-01	GW Protection	5.0E+00	Drinking Water
1,2-Dichloroethane	4.5E-03	GW Protection	4.5E-03	GW Protection	5.0E-01	Drinking Water
1,1-Dichloroethene	1.0E+00	GW Protection	1.0E+00	GW Protection	6.0E+00	Drinking Water
cis-1,2-Dichloroethene	1.9E-01	GW Protection	1.9E-01	GW Protection	6.0E+00	Drinking Water

**Summary Table A. Environmental Screening Levels (ESLs)
Shallow Soils (≤3m bgs)
Groundwater is Current or Potential Source of Drinking Water**

Chemical	Shallow Soil				Groundwater (µg/L)	Basis
	Residential Land Use (mg/kg)	Basis	Commercial/ Industrial Land Use (mg/kg)	Basis		
<i>trans</i> -1,2-Dichloroethene	6.7E-01	GW Protection	6.7E-01	GW Protection	1.0E+01	Drinking Water
2,4-Dichlorophenol	3.0E-01	GW Protection	3.0E-01	GW Protection	3.0E-01	Ceiling Value
1,2-Dichloropropane	1.2E-01	GW Protection	1.2E-01	GW Protection	5.0E+00	Drinking Water
1,3-Dichloropropene	5.9E-02	GW Protection	5.9E-02	GW Protection	5.0E-01	Drinking Water
Dieldrin	2.3E-03	GW Protection	2.3E-03	GW Protection	1.9E-03	Aquatic Habitat Goal
Diethyl phthalate	3.5E-02	GW Protection	3.5E-02	GW Protection	1.5E+00	Aquatic Habitat Goal
Dimethyl phthalate	3.5E-02	GW Protection	3.5E-02	GW Protection	1.5E+00	Aquatic Habitat Goal
2,4-Dimethylphenol	6.7E-01	GW Protection	6.7E-01	GW Protection	1.0E+02	Drinking Water
2,4-Dinitrophenol	4.2E-02	GW Protection	4.2E-02	GW Protection	1.5E+01	Aquatic Habitat Goal
2,4-Dinitrotoluene	7.4E-04	GW Protection	7.4E-04	GW Protection	9.9E-02	Drinking Water
1,4-Dioxane	1.5E-03	GW Protection	1.5E-03	GW Protection	2.5E+00	Drinking Water
Dioxin (2,3,7,8-TCDD)	4.5E-06	Human Health	1.8E-05	Human Health	1.0E-06	Aquatic Habitat Goal
Endosulfan	4.6E-03	GW Protection	4.6E-03	GW Protection	8.7E-03	Aquatic Habitat Goal
Endrin	6.5E-04	GW Protection	6.5E-04	GW Protection	2.3E-03	Aquatic Habitat Goal
Ethylbenzene	3.3E+00	GW Protection	3.3E+00	GW Protection	3.0E+01	Ceiling Value
Fluoranthene	4.0E+01	Ecotox	4.0E+01	Ecotox	8.0E+00	Aquatic Habitat Goal
Fluorene	8.9E+00	GW Protection	8.9E+00	GW Protection	3.9E+00	Aquatic Habitat Goal
Heptachlor	1.3E-02	GW Protection	1.3E-02	GW Protection	3.6E-03	Aquatic Habitat Goal
Heptachlor epoxide	1.4E-02	GW Protection	1.4E-02	GW Protection	3.6E-03	Aquatic Habitat Goal
Hexachlorobenzene	3.1E-01	Human Health	1.2E+00	Human Health	1.0E+00	Drinking Water
Hexachlorobutadiene	4.3E+00	GW Protection	4.3E+00	GW Protection	8.6E-01	Drinking Water
γ-Hexachlorocyclohexane (Lindane)	9.8E-03	GW Protection	9.8E-03	GW Protection	1.6E-02	Aquatic Habitat Goal
Hexachloroethane	5.8E+00	GW Protection	5.8E+00	GW Protection	1.7E+00	Drinking Water
Indeno(1,2,3-c,d)pyrene	3.8E-01	Human Health	1.3E+00	Human Health	5.6E-02	Drinking Water
Lead	8.0E+01	Human Health	3.2E+02	Human Health	2.5E+00	Aquatic Habitat Goal
Mercury (elemental)	6.7E+00	Human Health	1.0E+01	Ecotox	2.5E-02	Aquatic Habitat Goal
Methoxychlor	1.9E+01	GW Protection	1.9E+01	GW Protection	3.0E-03	Aquatic Habitat Goal
Methylene chloride	7.7E-02	GW Protection	7.7E-02	GW Protection	5.0E+00	Drinking Water
Methyl ethyl ketone	4.5E+00	GW Protection	4.5E+00	GW Protection	4.9E+03	Drinking Water
Methyl isobutyl ketone	2.8E+00	GW Protection	2.8E+00	GW Protection	1.2E+02	Drinking Water
Methyl mercury	6.1E+00	Human Health	6.2E+01	Human Health	3.0E-03	Aquatic Habitat Goal
2-Methylnaphthalene	2.5E-01	GW Protection	2.5E-01	GW Protection	2.1E+00	Aquatic Habitat Goal
<i>tert</i> -Butyl methyl ether	2.3E-02	GW Protection	2.3E-02	GW Protection	5.0E+00	Ceiling Value
Molybdenum	4.0E+01	Ecotox	4.0E+01	Ecotox	7.8E+01	Drinking Water
Naphthalene	1.2E+00	GW Protection	1.2E+00	GW Protection	6.1E+00	Drinking Water
Nickel	1.5E+02	Ecotox	1.5E+02	Ecotox	8.2E+00	Aquatic Habitat Goal
Pentachlorophenol	3.0E+00	Human Health	5.0E+00	Ecotox	1.0E+00	Drinking Water
Perchlorate	5.5E+01	Human Health	7.2E+02	Human Health	6.0E+00	Drinking Water
Phenanthrene	1.1E+01	GW Protection	1.1E+01	GW Protection	4.6E+00	Aquatic Habitat Goal
Phenol	7.6E-02	GW Protection	7.6E-02	GW Protection	5.0E+00	Ceiling Value
Polychlorinated biphenyls (PCBs)	2.2E-01	Human Health	7.4E-01	Human Health	1.4E-02	Aquatic Habitat Goal
Pyrene	8.5E+01	GW Protection	8.5E+01	GW Protection	2.0E+00	Aquatic Habitat Goal
Selenium	1.0E+01	Ecotox	1.0E+01	Ecotox	5.0E+00	Aquatic Habitat Goal
Silver	2.0E+01	Ecotox	4.0E+01	Ecotox	1.9E-01	Aquatic Habitat Goal
Styrene	1.5E+00	GW Protection	1.5E+00	GW Protection	1.0E+01	Ceiling Value
<i>tert</i> -Butyl alcohol	7.5E-02	GW Protection	7.5E-02	GW Protection	1.2E+01	Drinking Water
1,1,1,2-Tetrachloroethane	9.1E-03	GW Protection	9.1E-03	GW Protection	5.1E-01	Drinking Water
1,1,2,2-Tetrachloroethane	1.8E-02	GW Protection	1.8E-02	GW Protection	1.0E+00	Drinking Water
Tetrachloroethene	5.5E-01	Human Health	7.0E-01	GW Protection	5.0E+00	Drinking Water
Thallium	7.8E-01	Human Health	1.0E+01	Human Health	2.0E+00	Drinking Water
Toluene	2.9E+00	GW Protection	2.9E+00	GW Protection	4.0E+01	Ceiling Value
Toxaphene	4.2E-04	GW Protection	4.2E-04	GW Protection	2.0E-04	Aquatic Habitat Goal
TPH gasoline	1.0E+02	Ceiling Value	5.0E+02	Ceiling Value	1.0E+02	Ceiling Value
TPH diesel	1.0E+02	Ceiling Value	1.1E+02	Ceiling Value	1.0E+02	Ceiling Value
TPH motor oil	1.0E+02	Ceiling Value	5.0E+02	Ceiling Value	1.0E+02	Ceiling Value

**Summary Table A. Environmental Screening Levels (ESLs)
Shallow Soils (≤3m bgs)
Groundwater is Current or Potential Source of Drinking Water**

Chemical	Shallow Soil				Groundwater (µg/L)	Basis
	Residential Land Use (mg/kg)	Basis	Commercial/Industrial Land Use (mg/kg)	Basis		
1,2,4-Trichlorobenzene	1.5E+00	GW Protection	1.5E+00	GW Protection	5.0E+00	Drinking Water
1,1,1-Trichloroethane	7.8E+00	GW Protection	7.8E+00	GW Protection	6.2E+01	Aquatic Habitat Goal
1,1,2-Trichloroethane	7.0E-02	GW Protection	7.0E-02	GW Protection	5.0E+00	Drinking Water
Trichloroethene	4.6E-01	GW Protection	4.6E-01	GW Protection	5.0E+00	Drinking Water
2,4,5-Trichlorophenol	1.8E-01	GW Protection	1.8E-01	GW Protection	1.1E+01	Aquatic Habitat Goal
2,4,6-Trichlorophenol	5.2E-01	GW Protection	5.2E-01	GW Protection	1.6E+00	Drinking Water
Vanadium	2.0E+02	Ecotox	2.0E+02	Ecotox	1.9E+01	Aquatic Habitat Goal
Vinyl chloride	3.2E-02	Human Health	8.5E-02	GW Protection	5.0E-01	Drinking Water
Xylenes	2.3E+00	GW Protection	2.3E+00	GW Protection	2.0E+01	Ceiling Value
Zinc	6.0E+02	Ecotox	6.0E+02	Ecotox	8.1E+01	Aquatic Habitat Goal

Notes:
 Shallow soils defined as soils less than or equal to 3 meters (approximately 10 feet) below ground surface.
 Residential Land Use generally considered adequate for other sensitive uses.
 Groundwater values assume potential discharge of groundwater into a freshwater, marine, or estuary surface water system.
 Soil ESLs intended to address direct-exposure, groundwater protection, urban ecological receptors, and nuisance concerns.
 Groundwater ESLs intended to address drinking water, surface water, indoor-air, and nuisance concerns.
 Aquatic habitat goals for bioaccumulation concerns not considered in selection of groundwater goals.

**Summary Table B. Environmental Screening Levels (ESLs)
Shallow Soils (≤3 m bgs)
Groundwater is not a Current or Potential Source of Drinking Water**

Chemical	Shallow Soil				Groundwater (ug/L)	Basis
	Residential Land Use (mg/kg)	Basis	Commercial/Industrial Land Use (mg/kg)	Basis		
Acenaphthene	1.9E+01	GW Protection	1.9E+01	GW Protection	2.3E+01	Aquatic Habitat Goal
Acenaphthylene	1.3E+01	GW Protection	1.3E+01	GW Protection	3.0E+01	Aquatic Habitat Goal
Acetone	5.0E-01	GW Protection	5.0E-01	GW Protection	1.5E+03	Aquatic Habitat Goal
Aldrin	3.2E-02	Human Health	1.3E-01	Human Health	1.3E-01	Aquatic Habitat Goal
Anthracene	2.8E+00	GW Protection	2.8E+00	GW Protection	7.3E-01	Aquatic Habitat Goal
Antimony	2.0E+01	Ecotox	4.0E+01	Ecotox	3.0E+01	Aquatic Habitat Goal
Arsenic	3.9E-01	Human Health	1.6E+00	Human Health	3.6E+01	Aquatic Habitat Goal
Barium	7.5E+02	Ecotox	1.5E+03	Ecotox	1.0E+03	Aquatic Habitat Goal
Benzene	7.4E-01	Human Health	1.2E+00	GW Protection	2.7E+01	Vapor Intrusion
Benzo(a)anthracene	3.8E-01	Human Health	1.3E+00	Human Health	2.7E-02	Aquatic Habitat Goal
Benzo(b)fluoranthene	3.8E-01	Human Health	1.3E+00	Human Health	5.6E-02	Aquatic Habitat Goal
Benzo(k)fluoranthene	3.8E-01	Human Health	1.3E+00	Human Health	4.0E-01	Ceiling Value
Benzo(g,h,i)perylene	2.7E+01	GW Protection	2.7E+01	GW Protection	1.0E-01	Aquatic Habitat Goal
Benzo(a)pyrene	3.8E-02	Human Health	1.3E-01	Human Health	1.4E-02	Aquatic Habitat Goal
Beryllium	4.0E+00	Ecotox	8.0E+00	Ecotox	5.3E-01	Aquatic Habitat Goal
1,1-Biphenyl	6.5E+00	GW Protection	6.5E+00	GW Protection	5.0E+00	Ceiling Value
Bis(2-chloroethyl) ether	1.1E-01	Human Health	1.6E-01	GW Protection	1.2E+01	Aquatic Habitat Goal
Bis(2-chloroisopropyl) ether	1.3E-01	GW Protection	1.3E-01	GW Protection	1.2E+01	Aquatic Habitat Goal
Bis(2-ethylhexyl) phthalate	1.6E+02	Human Health	5.7E+02	Human Health	3.2E+01	Aquatic Habitat Goal
Boron	1.6E+00	Ecotox	2.0E+00	Ecotox	1.6E+00	Aquatic Habitat Goal
Bromodichloromethane	4.8E-01	Human Health	2.4E+00	Human Health	1.1E+03	Aquatic Habitat Goal
Bromoform (Tribromomethane)	2.4E+01	GW Protection	2.4E+01	GW Protection	1.1E+03	Aquatic Habitat Goal
Bromomethane	6.4E+00	GW Protection	6.4E+00	GW Protection	1.6E+02	Aquatic Habitat Goal
Cadmium (water)	No Value	No Value	No Value	Human Health	2.5E-01	Aquatic Habitat Goal
Cadmium (soil)	1.2E+01	Ecotox	1.2E+01	No Value	No Value	No Value
Carbon tetrachloride	1.2E-01	Human Health	5.8E-01	Human Health	4.8E+00	Vapor Intrusion
Chlordane	4.4E-01	Human Health	1.7E+00	Human Health	4.0E-03	Aquatic Habitat Goal
p-Chloroaniline	5.3E-02	GW Protection	5.3E-02	GW Protection	5.0E+00	Aquatic Habitat Goal
Chlorobenzene	1.5E+00	GW Protection	1.5E+00	GW Protection	2.5E+01	Aquatic Habitat Goal
Chloroethane	1.1E+00	GW Protection	1.1E+00	GW Protection	1.6E+01	Aquatic Habitat Goal
Chloroform	1.1E+00	Human Health	5.0E+00	GW Protection	1.7E+02	Vapor Intrusion
Chloromethane	1.0E+02	Ceiling Value	1.7E+02	GW Protection	1.1E+03	Aquatic Habitat Goal
2-Chlorophenol	1.2E-01	GW Protection	1.2E-01	GW Protection	1.8E+00	Ceiling Value
Chromium (total)	1.0E+03	Ceiling Value	2.5E+03	Ceiling Value	1.8E+02	Aquatic Habitat Goal
Chromium III	7.5E+02	Ecotox	7.5E+02	Ecotox	1.8E+02	Aquatic Habitat Goal
Chromium VI	8.0E+00	Ecotox	8.0E+00	Ecotox	1.1E+01	Aquatic Habitat Goal
Chrysene	3.8E+00	Human Health	1.3E+01	Human Health	3.5E-01	Aquatic Habitat Goal
Cobalt	2.3E+01	Human Health	8.0E+01	Ecotox	3.0E+00	Aquatic Habitat Goal
Copper	2.3E+02	Ecotox	2.3E+02	Ecotox	3.1E+00	Aquatic Habitat Goal
Cyanide	3.6E-03	GW Protection	3.6E-03	GW Protection	1.0E+00	Aquatic Habitat Goal
Dibenz(a,h)anthracene	1.1E-01	Human Health	3.8E-01	Human Health	2.5E-01	Ceiling Value
Dibromochloromethane	7.6E+00	Human Health	3.4E+01	Human Health	1.1E+03	Aquatic Habitat Goal
1,2-dibromo-3-chloropropane	4.5E-03	GW Protection	4.5E-03	GW Protection	2.0E-01	Aquatic Habitat Goal
1,2-Dibromoethane	1.1E-01	Human Health	5.1E-01	GW Protection	7.7E+01	Vapor Intrusion
1,2-Dichlorobenzene	1.6E+00	GW Protection	1.6E+00	GW Protection	1.4E+01	Aquatic Habitat Goal
1,3-Dichlorobenzene	7.4E+00	GW Protection	7.4E+00	GW Protection	6.5E+01	Aquatic Habitat Goal
1,4-Dichlorobenzene	1.8E+00	GW Protection	1.8E+00	GW Protection	1.5E+01	Aquatic Habitat Goal
3,3-Dichlorobenzidine	5.3E-01	Human Health	2.4E+00	Human Health	2.5E+02	Aquatic Habitat Goal
Dichlorodiphenyldichloroethane (DDD)	2.4E+00	Human Health	1.0E+01	Human Health	1.0E-03	Aquatic Habitat Goal
Dichlorodiphenyldichloroethene (DDE)	1.7E+00	Human Health	4.0E+00	Ecotox	1.0E-03	Aquatic Habitat Goal
Dichlorodiphenyltrichloroethane (DDT)	1.7E+00	Human Health	4.0E+00	Ecotox	1.0E-03	Aquatic Habitat Goal
1,1-Dichloroethane	1.9E+00	GW Protection	1.9E+00	GW Protection	4.7E+01	Aquatic Habitat Goal
1,2-Dichloroethane	4.4E-01	Human Health	9.1E-01	GW Protection	1.0E+02	Vapor Intrusion

**Summary Table B. Environmental Screening Levels (ESLs)
Shallow Soils (<3 m bgs)
Groundwater is not a Current or Potential Source of Drinking Water**

Chemical	Shallow Soil				Groundwater (ug/L)	Basis
	Residential Land Use (mg/kg)	Basis	Commercial/Industrial Land Use (mg/kg)	Basis		
1,1-Dichloroethene	4.3E+00	GW Protection	4.3E+00	GW Protection	2.5E+01	Aquatic Habitat Goal
cis-1,2-Dichloroethene	1.8E+01	GW Protection	1.8E+01	GW Protection	5.9E+02	Aquatic Habitat Goal
trans-1,2-Dichloroethene	3.9E+01	GW Protection	3.9E+01	GW Protection	5.9E+02	Aquatic Habitat Goal
2,4-Dichlorophenol	3.0E+00	GW Protection	3.0E+00	GW Protection	3.0E+00	Ceiling Value
1,2-Dichloropropane	8.2E-01	Human Health	2.5E+00	GW Protection	1.0E+02	Ceiling Value
1,3-Dichloropropene	2.7E-01	Human Health	1.3E+00	Human Health	2.4E+01	Aquatic Habitat Goal
Dieldrin	2.3E-03	GW Protection	2.3E-03	GW Protection	1.9E-03	Aquatic Habitat Goal
Diethyl phthalate	3.5E-02	GW Protection	3.5E-02	GW Protection	1.5E+00	Aquatic Habitat Goal
Dimethyl phthalate	3.5E-02	GW Protection	3.5E-02	GW Protection	1.5E+00	Aquatic Habitat Goal
2,4-Dimethylphenol	7.4E-01	GW Protection	7.4E-01	GW Protection	1.1E+02	Aquatic Habitat Goal
2,4-Dinitrophenol	4.2E-02	GW Protection	4.2E-02	GW Protection	1.5E+01	Aquatic Habitat Goal
2,4-Dinitrotoluene	8.6E-01	GW Protection	8.6E-01	GW Protection	1.2E+02	Aquatic Habitat Goal
1,4-Dioxane	2.4E+01	Human Health	3.0E+01	GW Protection	5.0E+04	Ceiling Value
Dioxin (2,3,7,8-TCDD)	4.5E-06	Human Health	1.8E-05	Human Health	1.0E-06	Aquatic Habitat Goal
Endosulfan	4.6E-03	GW Protection	4.6E-03	GW Protection	8.7E-03	Aquatic Habitat Goal
Endrin	6.5E-04	GW Protection	6.5E-04	GW Protection	2.3E-03	Aquatic Habitat Goal
Ethylbenzene	4.7E+00	GW Protection	4.7E+00	GW Protection	4.3E+01	Aquatic Habitat Goal
Fluoranthene	4.0E+01	Ecotox	4.0E+01	Ecotox	8.0E+00	Aquatic Habitat Goal
Fluorene	8.9E+00	GW Protection	8.9E+00	GW Protection	3.9E+00	Aquatic Habitat Goal
Heptachlor	1.3E-02	GW Protection	1.3E-02	GW Protection	3.6E-03	Aquatic Habitat Goal
Heptachlor epoxide	1.4E-02	GW Protection	1.4E-02	GW Protection	3.6E-03	Aquatic Habitat Goal
Hexachlorobenzene	3.1E-01	Human Health	1.2E+00	Human Health	3.7E+00	Aquatic Habitat Goal
Hexachlorobutadiene	4.6E+00	GW Protection	4.6E+00	GW Protection	9.3E-01	Aquatic Habitat Goal
γ-Hexachlorocyclohexane (Lindane)	9.8E-03	GW Protection	9.8E-03	GW Protection	1.6E-02	Aquatic Habitat Goal
Hexachloroethane	1.2E+01	Human Health	4.1E+01	GW Protection	1.2E+01	Aquatic Habitat Goal
Indeno(1,2,3-c,d)pyrene	3.8E-01	Human Health	1.3E+00	Human Health	5.6E-02	Aquatic Habitat Goal
Lead	8.0E+01	Human Health	3.2E+02	Human Health	2.5E+00	Aquatic Habitat Goal
Mercury (elemental)	6.7E+00	Human Health	1.0E+01	Ecotox	2.5E-02	Aquatic Habitat Goal
Methoxychlor	1.9E+01	GW Protection	1.9E+01	GW Protection	3.0E-03	Aquatic Habitat Goal
Methylene chloride	9.9E+00	Human Health	3.4E+01	GW Protection	2.2E+03	Aquatic Habitat Goal
Methyl ethyl ketone	1.3E+01	GW Protection	1.3E+01	GW Protection	1.4E+04	Aquatic Habitat Goal
Methyl isobutyl ketone	3.9E+00	GW Protection	3.9E+00	GW Protection	1.7E+02	Aquatic Habitat Goal
Methyl mercury	6.1E+00	Human Health	6.2E+01	Human Health	3.0E-03	Aquatic Habitat Goal
2-Methylnaphthalene	2.5E-01	GW Protection	2.5E-01	GW Protection	2.1E+00	Aquatic Habitat Goal
tert-Butyl methyl ether	8.4E+00	GW Protection	8.4E+00	GW Protection	1.8E+03	Ceiling Value
Molybdenum	4.0E+01	Ecotox	4.0E+01	Ecotox	2.4E+02	Aquatic Habitat Goal
Naphthalene	3.1E+00	Human Health	4.8E+00	GW Protection	2.4E+01	Aquatic Habitat Goal
Nickel	1.5E+02	Ecotox	1.5E+02	Ecotox	8.2E+00	Aquatic Habitat Goal
Pentachlorophenol	3.0E+00	Human Health	5.0E+00	Ecotox	7.9E+00	Aquatic Habitat Goal
Perchlorate	5.5E+01	Human Health	7.2E+02	Human Health	6.0E+02	Aquatic Habitat Goal
Phenanthrene	1.1E+01	GW Protection	1.1E+01	GW Protection	4.6E+00	Aquatic Habitat Goal
Phenol	3.9E+00	GW Protection	3.9E+00	GW Protection	2.6E+02	Aquatic Habitat Goal
Polychlorinated biphenyls (PCBs)	2.2E-01	Human Health	7.4E-01	Human Health	1.4E-02	Aquatic Habitat Goal
Pyrene	8.5E+01	GW Protection	8.5E+01	GW Protection	2.0E+00	Aquatic Habitat Goal
Selenium	1.0E+01	Ecotox	1.0E+01	Ecotox	5.0E+00	Aquatic Habitat Goal
Silver	2.0E+01	Ecotox	4.0E+01	Ecotox	1.9E-01	Aquatic Habitat Goal
Styrene	1.5E+01	GW Protection	1.5E+01	GW Protection	1.0E+02	Aquatic Habitat Goal
tert-Butyl alcohol	1.0E+02	Ceiling Value	1.1E+02	GW Protection	1.8E+04	Aquatic Habitat Goal
1,1,1,2-Tetrachloroethane	3.8E+00	Human Health	1.6E+01	GW Protection	9.3E+02	Aquatic Habitat Goal
1,1,2,2-Tetrachloroethane	4.7E-01	Human Health	2.3E+00	Human Health	2.4E+02	Aquatic Habitat Goal
Tetrachloroethene	5.5E-01	Human Health	2.6E+00	Human Health	6.3E+01	Vapor Intrusion
Thallium	7.8E-01	Human Health	1.0E+01	Human Health	4.0E+00	Aquatic Habitat Goal
Toluene	9.3E+00	GW Protection	9.3E+00	GW Protection	1.3E+02	Aquatic Habitat Goal

**Summary Table B. Environmental Screening Levels (ESLs)
Shallow Soils (≤ 3 m bgs)
Groundwater is not a Current or Potential Source of Drinking Water**

Chemical	Shallow Soil				Groundwater (ug/L)	Basis
	Residential Land Use (mg/kg)	Basis	Commercial/ Industrial Land Use (mg/kg)	Basis		
Toxaphene	4.2E-04	GW Protection	4.2E-04	GW Protection	2.0E-04	Aquatic Habitat Goal
TPH gasoline	1.0E+02	Ceiling Value	5.0E+02	Ceiling Value	5.0E+02	Aquatic Habitat Goal
TPH diesel	1.0E+02	Ceiling Value	1.1E+02	Ceiling Value	6.4E+02	Aquatic Habitat Goal
TPH motor oil	1.0E+02	Ceiling Value	5.0E+02	Ceiling Value	6.4E+02	Aquatic Habitat Goal
1,2,4-Trichlorobenzene	7.6E+00	GW Protection	7.6E+00	GW Protection	2.5E+01	Aquatic Habitat Goal
1,1,1-Trichloroethane	7.8E+00	GW Protection	7.8E+00	GW Protection	6.2E+01	Aquatic Habitat Goal
1,1,2-Trichloroethane	8.8E-01	Human Health	4.4E+00	Human Health	9.4E+02	Aquatic Habitat Goal
Trichloroethene	1.7E+00	Human Health	8.3E+00	Human Health	1.3E+02	Vapor Intrusion
2,4,5-Trichlorophenol	1.8E-01	GW Protection	1.8E-01	GW Protection	1.1E+01	Aquatic Habitat Goal
2,4,6-Trichlorophenol	7.8E+00	Human Health	1.0E+01	Ecotox	9.7E+01	Aquatic Habitat Goal
Vanadium	2.0E+02	Ecotox	2.0E+02	Ecotox	1.9E+01	Aquatic Habitat Goal
Vinyl chloride	3.2E-02	Human Health	1.6E-01	Human Health	1.8E+00	Vapor Intrusion
Xylenes	1.1E+01	GW Protection	1.1E+01	GW Protection	1.0E+02	Aquatic Habitat Goal
Zinc	6.0E+02	Ecotox	6.0E+02	Ecotox	8.1E+01	Aquatic Habitat Goal

Notes:

Shallow soils defined as soils less than or equal to 3 meters (approximately 10 feet) below ground surface.
Residential Land Use generally considered adequate for other sensitive uses.
Groundwater values assume potential discharge of groundwater into a freshwater, marine, or estuary surface water system.
Soil ESLs intended to address direct-exposure, groundwater protection, urban ecological receptors, and nuisance concerns.
Groundwater ESLs intended to address drinking water, surface water, indoor-air, and nuisance concerns.
Aquatic habitat goals for bioaccumulation concerns not considered in selection of groundwater goals.

**Summary Table C. Environmental Screening Levels (ESLs)
Deep Soils (>3m bgs)
Groundwater is a Current or Potential Source of Drinking Water**

Chemical	Deep Soil				Groundwater (ug/L)	Basis
	Residential Land Use (mg/kg)	Basis	Commercial/Industrial Land Use (mg/kg)	Basis		
Acenaphthene	1.6E+01	GW Protection	1.6E+01	GW Protection	2.0E+01	Ceiling Value
Acenaphthylene	1.3E+01	GW Protection	1.3E+01	GW Protection	3.0E+01	Aquatic Habitat Goal
Acetone	5.0E-01	GW Protection	5.0E-01	GW Protection	1.5E+03	Aquatic Habitat Goal
Aldrin	3.2E-02	Human Health	1.3E-01	Human Health	2.0E-03	Drinking Water
Anthracene	2.8E+00	GW Protection	2.8E+00	GW Protection	7.3E-01	Aquatic Habitat Goal
Antimony	3.1E+01	Human Health	4.1E+02	Human Health	6.0E+00	Drinking Water
Arsenic	3.9E-01	Human Health	1.6E+00	Human Health	1.0E+01	Drinking Water
Barium	2.5E+03	Ceiling Value	5.0E+03	Ceiling Value	1.0E+03	Drinking Water
Benzene	4.4E-02	GW Protection	4.4E-02	GW Protection	1.0E+00	Drinking Water
Benzo(a)anthracene	3.8E-01	Human Health	1.3E+00	Human Health	2.7E-02	Aquatic Habitat Goal
Benzo(b)fluoranthene	3.8E-01	Human Health	1.3E+00	Human Health	5.6E-02	Drinking Water
Benzo(k)fluoranthene	3.8E-01	Human Health	1.3E+00	Human Health	5.6E-02	Drinking Water
Benzo(g,h,i)perylene	2.7E+01	GW Protection	2.7E+01	GW Protection	1.0E-01	Aquatic Habitat Goal
Benzo(a)pyrene	3.8E-02	Human Health	1.3E-01	Human Health	1.4E-02	Aquatic Habitat Goal
Beryllium	1.6E+02	Human Health	2.0E+03	Human Health	5.3E-01	Aquatic Habitat Goal
1,1-Biphenyl	6.5E-01	GW Protection	6.5E-01	GW Protection	5.0E-01	Ceiling Value
Bis(2-chloroethyl) ether	7.0E-05	GW Protection	7.0E-05	GW Protection	5.5E-03	Drinking Water
Bis(2-chloroisopropyl) ether	1.3E-01	GW Protection	1.3E-01	GW Protection	1.2E+01	Aquatic Habitat Goal
Bis(2-ethylhexyl) phthalate	1.6E+02	Human Health	5.7E+02	Human Health	4.0E+00	Drinking Water
Boron	2.5E+03	Ceiling Value	5.0E+03	Ceiling Value	1.6E+00	Aquatic Habitat Goal
Bromodichloromethane	4.8E-01	Human Health	1.5E+00	GW Protection	8.0E+01	Drinking Water
Bromoform (Tribromomethane)	1.7E+00	GW Protection	1.7E+00	GW Protection	8.0E+01	Drinking Water
Bromomethane	2.8E-01	GW Protection	2.8E-01	GW Protection	7.1E+00	Drinking Water
Cadmium (water)	No Value	No Value	No Value	No Value	2.5E-01	Aquatic Habitat Goal
Cadmium (soil)	7.8E+01	Human Health	1.0E+03	Human Health	No Value	No Value
Carbon tetrachloride	1.1E-01	GW Protection	1.1E-01	GW Protection	5.0E-01	Drinking Water
Chlordane	4.4E-01	Human Health	1.7E+00	Human Health	4.0E-03	Aquatic Habitat Goal
p-Chloroaniline	5.3E-02	GW Protection	5.3E-02	GW Protection	5.0E+00	Aquatic Habitat Goal
Chlorobenzene	1.5E+00	GW Protection	1.5E+00	GW Protection	2.5E+01	Aquatic Habitat Goal
Chloroethane	1.1E+00	GW Protection	1.1E+00	GW Protection	1.6E+01	Ceiling Value
Chloroform	1.1E+00	Human Health	2.4E+00	GW Protection	8.0E+01	Drinking Water
Chloromethane	2.0E+01	GW Protection	2.0E+01	GW Protection	1.3E+02	Drinking Water
2-Chlorophenol	1.2E-02	GW Protection	1.2E-02	GW Protection	1.8E-01	Ceiling Value
Chromium (total)	2.5E+03	Ceiling Value	5.0E+03	Ceiling Value	5.0E+01	Drinking Water
Chromium III	2.5E+03	Ceiling Value	5.0E+03	Ceiling Value	1.8E+02	Aquatic Habitat Goal
Chromium VI	2.1E+01	Human Health	1.1E+02	Human Health	2.0E-02	Drinking Water
Chrysene	3.8E+00	Human Health	1.3E+01	Human Health	3.5E-01	Aquatic Habitat Goal
Cobalt	2.3E+01	Human Health	3.0E+02	Human Health	3.0E+00	Aquatic Habitat Goal
Copper	2.5E+03	Ceiling Value	5.0E+03	Ceiling Value	3.1E+00	Aquatic Habitat Goal
Cyanide	3.6E-03	GW Protection	3.6E-03	GW Protection	1.0E+00	Aquatic Habitat Goal
Dibenz(a,h)anthracene	1.1E-01	Human Health	3.8E-01	Human Health	1.6E-02	Drinking Water
Dibromochloromethane	6.6E+00	GW Protection	6.6E+00	GW Protection	8.0E+01	Drinking Water
1,2-dibromo-3-chloropropane	4.5E-03	GW Protection	4.5E-03	GW Protection	2.0E-01	Drinking Water
1,2-Dibromoethane	3.3E-04	GW Protection	3.3E-04	GW Protection	5.0E-02	Drinking Water
1,2-Dichlorobenzene	1.1E+00	GW Protection	1.1E+00	GW Protection	1.0E+01	Ceiling Value
1,3-Dichlorobenzene	7.4E+00	GW Protection	7.4E+00	GW Protection	6.5E+01	Aquatic Habitat Goal
1,4-Dichlorobenzene	5.9E-01	GW Protection	5.9E-01	GW Protection	5.0E+00	Ceiling Value
3,3-Dichlorobenzidine	1.5E-02	GW Protection	1.5E-02	GW Protection	5.6E-02	Drinking Water
Dichlorodiphenyldichloroethane (DDD)	2.4E+00	Human Health	1.0E+01	Human Health	1.0E-03	Aquatic Habitat Goal
Dichlorodiphenyldichloroethane (DDE)	1.7E+00	Human Health	7.0E+00	Human Health	1.0E-03	Aquatic Habitat Goal
Dichlorodiphenyltrichloroethane (DDT)	1.7E+00	Human Health	4.3E+00	GW Protection	1.0E-03	Aquatic Habitat Goal
1,1-Dichloroethane	2.0E-01	GW Protection	2.0E-01	GW Protection	5.0E+00	Drinking Water
1,2-Dichloroethane	4.5E-03	GW Protection	4.5E-03	GW Protection	5.0E-01	Drinking Water
1,1-Dichloroethene	1.0E+00	GW Protection	1.0E+00	GW Protection	6.0E+00	Drinking Water
cis-1,2-Dichloroethene	1.9E-01	GW Protection	1.9E-01	GW Protection	6.0E+00	Drinking Water

**Summary Table C. Environmental Screening Levels (ESLs)
Deep Soils (>3m bgs)
Groundwater is a Current or Potential Source of Drinking Water**

Chemical	Deep Soil				Groundwater (ug/L)	Basis
	Residential Land Use (mg/kg)	Basis	Commercial/Industrial Land Use (mg/kg)	Basis		
<i>trans</i> -1,2-Dichloroethene	6.7E-01	GW Protection	6.7E-01	GW Protection	1.0E+01	Drinking Water
2,4-Dichlorophenol	3.0E-01	GW Protection	3.0E-01	GW Protection	3.0E-01	Ceiling Value
1,2-Dichloropropane	1.2E-01	GW Protection	1.2E-01	GW Protection	5.0E+00	Drinking Water
1,3-Dichloropropene	5.9E-02	GW Protection	5.9E-02	GW Protection	5.0E-01	Drinking Water
Dieldrin	2.3E-03	GW Protection	2.3E-03	GW Protection	1.9E-03	Aquatic Habitat Goal
Diethyl phthalate	3.5E-02	GW Protection	3.5E-02	GW Protection	1.5E+00	Aquatic Habitat Goal
Dimethyl phthalate	3.5E-02	GW Protection	3.5E-02	GW Protection	1.5E+00	Aquatic Habitat Goal
2,4-Dimethylphenol	6.7E-01	GW Protection	6.7E-01	GW Protection	1.0E+02	Drinking Water
2,4-Dinitrophenol	4.2E-02	GW Protection	4.2E-02	GW Protection	1.5E+01	Aquatic Habitat Goal
2,4-Dinitrotoluene	7.4E-04	GW Protection	7.4E-04	GW Protection	9.9E-02	Drinking Water
1,4-Dioxane	1.5E-03	GW Protection	1.5E-03	GW Protection	2.5E+00	Drinking Water
Dioxin (2,3,7,8-TCDD)	4.5E-06	Human Health	1.8E-05	Human Health	1.0E-06	Aquatic Habitat Goal
Endosulfan	4.6E-03	GW Protection	4.6E-03	GW Protection	8.7E-03	Aquatic Habitat Goal
Endrin	6.5E-04	GW Protection	6.5E-04	GW Protection	2.3E-03	Aquatic Habitat Goal
Ethylbenzene	3.3E+00	GW Protection	3.3E+00	GW Protection	3.0E+01	Ceiling Value
Fluoranthene	6.0E+01	GW Protection	6.0E+01	GW Protection	8.0E+00	Aquatic Habitat Goal
Fluorene	8.9E+00	GW Protection	8.9E+00	GW Protection	3.9E+00	Aquatic Habitat Goal
Heptachlor	1.3E-02	GW Protection	1.3E-02	GW Protection	3.6E-03	Aquatic Habitat Goal
Heptachlor epoxide	1.4E-02	GW Protection	1.4E-02	GW Protection	3.6E-03	Aquatic Habitat Goal
Hexachlorobenzene	3.1E-01	Human Health	1.2E+00	Human Health	1.0E+00	Drinking Water
Hexachlorobutadiene	4.3E+00	GW Protection	4.3E+00	GW Protection	8.6E-01	Drinking Water
γ -Hexachlorocyclohexane (Lindane)	9.8E-03	GW Protection	9.8E-03	GW Protection	1.6E-02	Aquatic Habitat Goal
Hexachloroethane	5.8E+00	GW Protection	5.8E+00	GW Protection	1.7E+00	Drinking Water
Indeno(1,2,3-c,d)pyrene	3.8E-01	Human Health	1.3E+00	Human Health	5.6E-02	Drinking Water
Lead	8.0E+01	Human Health	3.2E+02	Human Health	2.5E+00	Aquatic Habitat Goal
Mercury (elemental)	6.7E+00	Human Health	8.8E+01	Human Health	2.5E-02	Aquatic Habitat Goal
Methoxychlor	1.9E+01	GW Protection	1.9E+01	GW Protection	3.0E-03	Aquatic Habitat Goal
Methylene chloride	7.7E-02	GW Protection	7.7E-02	GW Protection	5.0E+00	Drinking Water
Methyl ethyl ketone	4.5E+00	GW Protection	4.5E+00	GW Protection	4.9E+03	Drinking Water
Methyl isobutyl ketone	2.8E+00	GW Protection	2.8E+00	GW Protection	1.2E+02	Drinking Water
Methyl mercury	6.1E+00	Human Health	6.2E+01	Human Health	3.0E-03	Aquatic Habitat Goal
2-Methylnaphthalene	2.5E-01	GW Protection	2.5E-01	GW Protection	2.1E+00	Aquatic Habitat Goal
<i>tert</i> -Butyl methyl ether	2.3E-02	GW Protection	2.3E-02	GW Protection	5.0E+00	Ceiling Value
Molybdenum	3.9E+02	Human Health	5.0E+03	Ceiling Value	7.8E+01	Drinking Water

**Summary Table C. Environmental Screening Levels (ESLs)
Deep Soils (>3m bgs)
Groundwater is a Current or Potential Source of Drinking Water**

Chemical	Deep Soil				Groundwater (ug/L)	Basis
	Residential Land Use (mg/kg)	Basis	Commercial/Industrial Land Use (mg/kg)	Basis		
Naphthalene	1.2E+00	GW Protection	1.2E+00	GW Protection	6.1E+00	Drinking Water
Nickel	1.5E+03	Human Health	5.0E+03	Ceiling Value	8.2E+00	Aquatic Habitat Goal
Pentachlorophenol	3.0E+00	Human Health	9.0E+00	Human Health	1.0E+00	Drinking Water
Perchlorate	5.5E+01	Human Health	7.2E+02	Human Health	6.0E+00	Drinking Water
Phenanthrene	1.1E+01	GW Protection	1.1E+01	GW Protection	4.6E+00	Aquatic Habitat Goal
Phenol	7.6E-02	GW Protection	7.6E-02	GW Protection	5.0E+00	Ceiling Value
Polychlorinated biphenyls (PCBs)	2.2E-01	Human Health	7.4E-01	Human Health	1.4E-02	Aquatic Habitat Goal
Pyrene	8.5E+01	GW Protection	8.5E+01	GW Protection	2.0E+00	Aquatic Habitat Goal
Selenium	3.9E+02	Human Health	5.0E+03	Ceiling Value	5.0E+00	Aquatic Habitat Goal
Silver	3.9E+02	Human Health	5.0E+03	Ceiling Value	1.9E-01	Aquatic Habitat Goal
Styrene	1.5E+00	GW Protection	1.5E+00	GW Protection	1.0E+01	Ceiling Value
tert-Butyl alcohol	7.5E-02	GW Protection	7.5E-02	GW Protection	1.2E+01	Drinking Water
1,1,1,2-Tetrachloroethane	9.1E-03	GW Protection	9.1E-03	GW Protection	5.1E-01	Drinking Water
1,1,2,2-Tetrachloroethane	1.8E-02	GW Protection	1.8E-02	GW Protection	1.0E+00	Drinking Water
Tetrachloroethene	5.5E-01	Human Health	7.0E-01	GW Protection	5.0E+00	Drinking Water
Thallium	7.8E-01	Human Health	1.0E+01	Human Health	2.0E+00	Drinking Water
Toluene	2.9E+00	GW Protection	2.9E+00	GW Protection	4.0E+01	Ceiling Value
Toxaphene	4.2E-04	GW Protection	4.2E-04	GW Protection	2.0E-04	Aquatic Habitat Goal
TPH gasoline	5.0E+02	Ceiling Value	7.7E+02	GW Protection	1.0E+02	Ceiling Value
TPH diesel	1.1E+02	Ceiling Value	1.1E+02	Ceiling Value	1.0E+02	Ceiling Value
TPH motor oil	5.0E+02	Ceiling Value	1.0E+03	Ceiling Value	1.0E+02	Ceiling Value
1,2,4-Trichlorobenzene	1.5E+00	GW Protection	1.5E+00	GW Protection	5.0E+00	Drinking Water
1,1,1-Trichloroethane	7.8E+00	GW Protection	7.8E+00	GW Protection	6.2E+01	Aquatic Habitat Goal
1,1,2-Trichloroethane	7.0E-02	GW Protection	7.0E-02	GW Protection	5.0E+00	Drinking Water
Trichloroethene	4.6E-01	GW Protection	4.6E-01	GW Protection	5.0E+00	Drinking Water
2,4,5-Trichlorophenol	1.8E-01	GW Protection	1.8E-01	GW Protection	1.1E+01	Aquatic Habitat Goal
2,4,6-Trichlorophenol	5.2E-01	GW Protection	5.2E-01	GW Protection	1.6E+00	Drinking Water
Vanadium	3.9E+02	Human Health	5.0E+03	Ceiling Value	1.9E+01	Aquatic Habitat Goal
Vinyl chloride	3.2E-02	Human Health	8.5E-02	GW Protection	5.0E-01	Drinking Water
Xylenes	2.3E+00	GW Protection	2.3E+00	GW Protection	2.0E+01	Ceiling Value
Zinc	2.5E+03	Ceiling Value	5.0E+03	Ceiling Value	8.1E+01	Aquatic Habitat Goal

Notes:

Shallow soils defined as soils less than or equal to 3 meters (approximately 10 feet) below ground surface.
 Residential Land Use generally considered adequate for other sensitive uses.
 Groundwater values assume potential discharge of groundwater into a freshwater, marine, or estuary surface water system.
 Soil ESLs intended to address direct-exposure, groundwater protection, urban ecological receptors, and nuisance concerns under noted land-use scenarios. Soil gas data should be collected for additional evaluation of potential indoor-air concerns at sites with areas of VOC-contaminated soil.
 Groundwater ESLs intended to address drinking water, surface water, indoor-air, and nuisance concerns. Use in conjunction with soil gas screening levels to more closely evaluate potential indoor-air concerns if groundwater screening levels for this concern approached or exceeded.
 Aquatic habitat goals for bioaccumulation concerns not considered in selection of groundwater goals.

**Summary Table D. Environmental Screening Levels (ESLs)
Deep Soils (>3m bgs)
Groundwater is not a Current or Potential Source of Drinking Water**

Chemical	Deep Soil				Groundwater (µg/L)	Basis
	Residential Land Use (mg/kg)	Basis	Commercial/ Industrial Land Use (mg/kg)	Basis		
Acenaphthene	1.9E+01	GW Protection	1.9E+01	GW Protection	2.3E+01	Aquatic Habitat Goal
Acenaphthylene	1.3E+01	GW Protection	1.3E+01	GW Protection	3.0E+01	Aquatic Habitat Goal
Acetone	5.0E-01	GW Protection	5.0E-01	GW Protection	1.5E+03	Aquatic Habitat Goal
Aldrin	3.2E-02	Human Health	1.3E-01	Human Health	1.3E-01	Aquatic Habitat Goal
Anthracene	2.8E+00	GW Protection	2.8E+00	GW Protection	7.3E-01	Aquatic Habitat Goal
Antimony	3.1E+01	Human Health	4.1E+02	Human Health	3.0E+01	Aquatic Habitat Goal
Arsenic	3.9E-01	Human Health	1.6E+00	Human Health	3.6E+01	Aquatic Habitat Goal
Barium	2.5E+03	Ceiling Value	5.0E+03	Ceiling Value	1.0E+03	Aquatic Habitat Goal
Benzene	7.4E-01	Human Health	1.2E+00	GW Protection	2.7E+01	Vapor Intrusion
Benzo(a)anthracene	3.8E-01	Human Health	1.3E+00	Human Health	2.7E-02	Aquatic Habitat Goal
Benzo(b)fluoranthene	3.8E-01	Human Health	1.3E+00	Human Health	5.6E-02	Aquatic Habitat Goal
Benzo(k)fluoranthene	3.8E-01	Human Health	1.3E+00	Human Health	4.0E-01	Ceiling Value
Benzo(g,h,i)perylene	2.7E+01	GW Protection	2.7E+01	GW Protection	1.0E-01	Aquatic Habitat Goal
Benzo(a)pyrene	3.8E-02	Human Health	1.3E-01	Human Health	1.4E-02	Aquatic Habitat Goal
Beryllium	1.6E+02	Human Health	2.0E+03	Human Health	5.3E-01	Aquatic Habitat Goal
1,1-Biphenyl	6.5E+00	GW Protection	6.5E+00	GW Protection	5.0E+00	Ceiling Value
Bis(2-chloroethyl) ether	1.1E-01	Human Health	1.6E-01	GW Protection	1.2E+01	Aquatic Habitat Goal
Bis(2-chloroisopropyl) ether	1.3E-01	GW Protection	1.3E-01	GW Protection	1.2E+01	Aquatic Habitat Goal
Bis(2-ethylhexyl) phthalate	1.6E+02	Human Health	5.7E+02	Human Health	3.2E+01	Aquatic Habitat Goal
Boron	2.5E+03	Ceiling Value	5.0E+03	Ceiling Value	1.6E+00	Aquatic Habitat Goal
Bromodichloromethane	4.8E-01	Human Health	2.4E+00	Human Health	1.1E+03	Aquatic Habitat Goal
Bromoform (Tribromomethane)	2.4E+01	GW Protection	2.4E+01	GW Protection	1.1E+03	Aquatic Habitat Goal
Bromomethane	6.4E+00	GW Protection	6.4E+00	GW Protection	1.6E+02	Aquatic Habitat Goal
Cadmium (water)	No Value	No Value	No Value	No Value	2.5E-01	Aquatic Habitat Goal
Cadmium (soil)	7.8E+01	Human Health	1.0E+03	Human Health	No Value	No Value
Carbon tetrachloride	1.2E-01	Human Health	5.8E-01	Human Health	4.8E+00	Vapor Intrusion
Chlordane	4.4E-01	Human Health	1.7E+00	Human Health	4.0E-03	Aquatic Habitat Goal
p-Chloroaniline	5.3E-02	GW Protection	5.3E-02	GW Protection	5.0E+00	Aquatic Habitat Goal
Chlorobenzene	1.5E+00	GW Protection	1.5E+00	GW Protection	2.5E+01	Aquatic Habitat Goal
Chloroethane	1.1E+00	GW Protection	1.1E+00	GW Protection	1.6E+01	Aquatic Habitat Goal
Chloroform	1.1E+00	Human Health	5.0E+00	GW Protection	1.7E+02	Vapor Intrusion
Chloromethane	1.0E+02	Human Health	1.7E+02	GW Protection	1.1E+03	Aquatic Habitat Goal
2-Chlorophenol	1.2E-01	GW Protection	1.2E-01	GW Protection	1.8E+00	Ceiling Value
Chromium (total)	2.5E+03	Ceiling Value	5.0E+03	Ceiling Value	1.8E+02	Aquatic Habitat Goal
Chromium III	2.5E+03	Ceiling Value	5.0E+03	Ceiling Value	1.8E+02	Aquatic Habitat Goal
Chromium VI	2.1E+01	Human Health	1.1E+02	Human Health	1.1E+01	Aquatic Habitat Goal
Chrysene	3.8E+00	Human Health	1.3E+01	Human Health	3.5E-01	Aquatic Habitat Goal
Cobalt	2.3E+01	Human Health	3.0E+02	Human Health	3.0E+00	Aquatic Habitat Goal
Copper	2.5E+03	Ceiling Value	5.0E+03	Ceiling Value	3.1E+00	Aquatic Habitat Goal
Cyanide	3.6E-03	GW Protection	3.6E-03	GW Protection	1.0E+00	Aquatic Habitat Goal
Dibenz(a,h)anthracene	1.1E-01	Human Health	3.8E-01	Human Health	2.5E-01	Ceiling Value
Dibromochloromethane	7.6E+00	Human Health	3.4E+01	Human Health	1.1E+03	Aquatic Habitat Goal
1,2-dibromo-3-chloropropane	4.5E-03	GW Protection	4.5E-03	GW Protection	2.0E-01	Aquatic Habitat Goal
1,2-Dibromoethane	1.1E-01	Human Health	5.1E-01	GW Protection	7.7E+01	Vapor Intrusion
1,2-Dichlorobenzene	1.6E+00	GW Protection	1.6E+00	GW Protection	1.4E+01	Aquatic Habitat Goal
1,3-Dichlorobenzene	7.4E+00	GW Protection	7.4E+00	GW Protection	6.5E+01	Aquatic Habitat Goal
1,4-Dichlorobenzene	1.8E+00	GW Protection	1.8E+00	GW Protection	1.5E+01	Aquatic Habitat Goal
3,3-Dichlorobenzidine	5.3E-01	Human Health	2.4E+00	Human Health	2.5E+02	Aquatic Habitat Goal
Dichlorodiphenyldichloroethane (DDD)	2.4E+00	Human Health	1.0E+01	Human Health	1.0E-03	Aquatic Habitat Goal
Dichlorodiphenyldichloroethene (DDE)	1.7E+00	Human Health	7.0E+00	Human Health	1.0E-03	Aquatic Habitat Goal
Dichlorodiphenyltrichloroethane (DDT)	1.7E+00	Human Health	4.3E+00	GW Protection	1.0E-03	Aquatic Habitat Goal
1,1-Dichloroethane	1.9E+00	GW Protection	1.9E+00	GW Protection	4.7E+01	Aquatic Habitat Goal
1,2-Dichloroethane	4.4E-01	Human Health	9.1E-01	GW Protection	1.0E+02	Vapor Intrusion
1,1-Dichloroethene	4.3E+00	GW Protection	4.3E+00	GW Protection	2.5E+01	Aquatic Habitat Goal

**Summary Table D. Environmental Screening Levels (ESLs)
Deep Soils (>3m bgs)
Groundwater is not a Current or Potential Source of Drinking Water**

Chemical	Deep Soil				Groundwater (µg/L)	Basis
	Residential Land Use (mg/kg)	Basis	Commercial/ Industrial Land Use (mg/kg)	Basis		
<i>cis</i> -1,2-Dichloroethene	1.8E+01	GW Protection	1.8E+01	GW Protection	5.9E+02	Aquatic Habitat Goal
<i>trans</i> -1,2-Dichloroethene	3.9E+01	GW Protection	3.9E+01	GW Protection	5.9E+02	Aquatic Habitat Goal
2,4-Dichlorophenol	3.0E+00	GW Protection	3.0E+00	GW Protection	3.0E+00	Ceiling Value
1,2-Dichloropropane	8.2E-01	Human Health	2.5E+00	GW Protection	1.0E+02	Ceiling Value
1,3-Dichloropropene	2.7E-01	Human Health	1.3E+00	Human Health	2.4E+01	Aquatic Habitat Goal
Dieldrin	2.3E-03	GW Protection	2.3E-03	GW Protection	1.9E-03	Aquatic Habitat Goal
Diethyl phthalate	3.5E-02	GW Protection	3.5E-02	GW Protection	1.5E+00	Aquatic Habitat Goal
Dimethyl phthalate	3.5E-02	GW Protection	3.5E-02	GW Protection	1.5E+00	Aquatic Habitat Goal
2,4-Dimethylphenol	7.4E-01	GW Protection	7.4E-01	GW Protection	1.1E+02	Aquatic Habitat Goal
2,4-Dinitrophenol	4.2E-02	GW Protection	4.2E-02	GW Protection	1.5E+01	Aquatic Habitat Goal
2,4-Dinitrotoluene	8.6E-01	GW Protection	8.6E-01	GW Protection	1.2E+02	Aquatic Habitat Goal
1,4-Dioxane	2.4E+01	Human Health	3.0E+01	GW Protection	5.0E+04	Ceiling Value
Dioxin (2,3,7,8-TCDD)	4.5E-06	Human Health	1.8E-05	Human Health	1.0E-06	Aquatic Habitat Goal
Endosulfan	4.6E-03	GW Protection	4.6E-03	GW Protection	8.7E-03	Aquatic Habitat Goal
Endrin	6.5E-04	GW Protection	6.5E-04	GW Protection	2.3E-03	Aquatic Habitat Goal
Ethylbenzene	4.7E+00	GW Protection	4.7E+00	GW Protection	4.3E+01	Aquatic Habitat Goal
Fluoranthene	6.0E+01	GW Protection	6.0E+01	GW Protection	8.0E+00	Aquatic Habitat Goal
Fluorene	8.9E+00	GW Protection	8.9E+00	GW Protection	3.9E+00	Aquatic Habitat Goal
Heptachlor	1.3E-02	GW Protection	1.3E-02	GW Protection	3.6E-03	Aquatic Habitat Goal
Heptachlor epoxide	1.4E-02	GW Protection	1.4E-02	GW Protection	3.6E-03	Aquatic Habitat Goal
Hexachlorobenzene	3.1E-01	Human Health	1.2E+00	Human Health	3.7E+00	Aquatic Habitat Goal
Hexachlorobutadiene	4.6E+00	GW Protection	4.6E+00	GW Protection	9.3E-01	Aquatic Habitat Goal
γ-Hexachlorocyclohexane (Lindane)	9.8E-03	GW Protection	9.8E-03	GW Protection	1.6E-02	Aquatic Habitat Goal
Hexachloroethane	1.2E+01	Human Health	4.1E+01	GW Protection	1.2E+01	Aquatic Habitat Goal
Indeno(1,2,3-c,d)pyrene	3.8E-01	Human Health	1.3E+00	Human Health	5.6E-02	Aquatic Habitat Goal
Lead	8.0E+01	Human Health	3.2E+02	Human Health	2.5E+00	Aquatic Habitat Goal
Mercury (elemental)	6.7E+00	Human Health	8.8E+01	Human Health	2.5E-02	Aquatic Habitat Goal
Methoxychlor	1.9E+01	GW Protection	1.9E+01	GW Protection	3.0E-03	Aquatic Habitat Goal
Methylene chloride	9.9E+00	Human Health	3.4E+01	GW Protection	2.2E+03	Aquatic Habitat Goal
Methyl ethyl ketone	1.3E+01	GW Protection	1.3E+01	GW Protection	1.4E+04	Aquatic Habitat Goal
Methyl isobutyl ketone	3.9E+00	GW Protection	3.9E+00	GW Protection	1.7E+02	Aquatic Habitat Goal
Methyl mercury	6.1E+00	Human Health	6.2E+01	Human Health	3.0E-03	Aquatic Habitat Goal
2-Methylnaphthalene	2.5E-01	GW Protection	2.5E-01	GW Protection	2.1E+00	Aquatic Habitat Goal
<i>tert</i> -Butyl methyl ether	8.4E+00	GW Protection	8.4E+00	GW Protection	1.8E+03	Ceiling Value
Molybdenum	3.9E+02	Human Health	5.0E+03	Ceiling Value	2.4E+02	Aquatic Habitat Goal

**Summary Table D. Environmental Screening Levels (ESLs)
Deep Soils (>3m bgs)
Groundwater is not a Current or Potential Source of Drinking Water**

Chemical	Deep Soil				Groundwater (µg/L)	Basis
	Residential Land Use (mg/kg)	Basis	Commercial/ Industrial Land Use (mg/kg)	Basis		
Naphthalene	3.1E+00	Human Health	4.8E+00	GW Protection	2.4E+01	Aquatic Habitat Goal
Nickel	1.5E+03	Human Health	5.0E+03	Ceiling Value	8.2E+00	Aquatic Habitat Goal
Pentachlorophenol	3.0E+00	Human Health	9.0E+00	Human Health	7.9E+00	Aquatic Habitat Goal
Perchlorate	5.5E+01	Human Health	7.2E+02	Human Health	6.0E+02	Aquatic Habitat Goal
Phenanthrene	1.1E+01	GW Protection	1.1E+01	GW Protection	4.6E+00	Aquatic Habitat Goal
Phenol	3.9E+00	GW Protection	3.9E+00	GW Protection	2.6E+02	Aquatic Habitat Goal
Polychlorinated biphenyls (PCBs)	2.2E-01	Human Health	7.4E-01	Human Health	1.4E-02	Aquatic Habitat Goal
Pyrene	8.5E+01	GW Protection	8.5E+01	GW Protection	2.0E+00	Aquatic Habitat Goal
Selenium	3.9E+02	Human Health	5.0E+03	Ceiling Value	5.0E+00	Aquatic Habitat Goal
Silver	3.9E+02	Human Health	5.0E+03	Ceiling Value	1.9E-01	Aquatic Habitat Goal
Styrene	1.5E+01	GW Protection	1.5E+01	GW Protection	1.0E+02	Aquatic Habitat Goal
tert-Butyl alcohol	1.1E+02	GW Protection	1.1E+02	GW Protection	1.8E+04	Aquatic Habitat Goal
1,1,1,2-Tetrachloroethane	3.8E+00	Human Health	1.6E+01	GW Protection	9.3E+02	Aquatic Habitat Goal
1,1,2,2-Tetrachloroethane	4.7E-01	Human Health	2.3E+00	Human Health	2.4E+02	Aquatic Habitat Goal
Tetrachloroethene	5.5E-01	Human Health	2.6E+00	Human Health	6.3E+01	Vapor Intrusion
Thallium	7.8E-01	Human Health	1.0E+01	Human Health	4.0E+00	Aquatic Habitat Goal
Toluene	9.3E+00	GW Protection	9.3E+00	GW Protection	1.3E+02	Aquatic Habitat Goal
Toxaphene	4.2E-04	GW Protection	4.2E-04	GW Protection	2.0E-04	Aquatic Habitat Goal
TPH gasoline	5.0E+02	Ceiling Value	1.0E+03	Ceiling Value	5.0E+02	Aquatic Habitat Goal
TPH diesel	1.1E+02	Ceiling Value	1.1E+02	Ceiling Value	6.4E+02	Aquatic Habitat Goal
TPH motor oil	5.0E+02	Ceiling Value	1.0E+03	Ceiling Value	6.4E+02	Aquatic Habitat Goal
1,2,4-Trichlorobenzene	7.6E+00	GW Protection	7.6E+00	GW Protection	2.5E+01	Aquatic Habitat Goal
1,1,1-Trichloroethane	7.8E+00	GW Protection	7.8E+00	GW Protection	6.2E+01	Aquatic Habitat Goal
1,1,2-Trichloroethane	8.8E-01	Human Health	4.4E+00	Human Health	9.4E+02	Aquatic Habitat Goal
Trichloroethene	1.7E+00	Human Health	8.3E+00	Human Health	1.3E+02	Vapor Intrusion
2,4,5-Trichlorophenol	1.8E-01	GW Protection	1.8E-01	GW Protection	1.1E+01	Aquatic Habitat Goal
2,4,6-Trichlorophenol	7.8E+00	Human Health	3.2E+01	GW Protection	9.7E+01	Aquatic Habitat Goal
Vanadium	3.9E+02	Human Health	5.0E+03	Ceiling Value	1.9E+01	Aquatic Habitat Goal
Vinyl chloride	3.2E-02	Human Health	1.6E-01	Human Health	1.8E+00	Vapor Intrusion
Xylenes	1.1E+01	GW Protection	1.1E+01	GW Protection	1.0E+02	Aquatic Habitat Goal
Zinc	2.5E+03	Ceiling Value	5.0E+03	Ceiling Value	8.1E+01	Aquatic Habitat Goal

Notes:

Shallow soils defined as soils less than or equal to 3 meters (approximately 10 feet) below ground surface.
 Residential Land Use generally considered adequate for other sensitive uses.
 Groundwater values assume potential discharge of groundwater into a freshwater, marine, or estuary surface water system.
 Soil ESLs intended to address direct-exposure, groundwater protection, urban ecological receptors, and nuisance concerns.
 Soil gas data should be collected for evaluation of potential indoor-air concerns at sites with VOC-contaminated soil.
 Groundwater ESLs intended to address drinking water, surface water, indoor-air, and nuisance concerns. Use in conjunction with soil gas screening levels to more closely evaluate potential indoor-air concerns if groundwater screening levels for this concern approached or exceeded.
 Aquatic habitat goals for bioaccumulation concerns not considered in selection of groundwater goals.

**Summary Table E. Environmental Screening Levels (ESLs)
Indoor Air and Soil Gas
(Vapor Intrusion Concerns)**

Chemical	Indoor Air			Soil Gas		
	Residential Land Use (µg/m ³)	Commercial/Industrial Land Use (µg/m ³)	Odor Threshold* (µg/m ³)	Residential Land Use (µg/m ³)	Commercial/Industrial Land Use (µg/m ³)	Ceiling Level** (µg/m ³)
Acenaphthene	No Value	No Value	5.1E+02	No Value	No Value	2.6E+05
Acenaphthylene	No Value	No Value	No Value	No Value	No Value	No Value
Acetone	3.2E+04	1.4E+05	3.1E+04	1.6E+07	1.4E+08	1.5E+07
Aldrin	5.0E-04	2.5E-03	2.6E+02	No Value	No Value	1.3E+05
Anthracene	No Value	No Value	No Value	No Value	No Value	No Value
Antimony	No Value	No Value	No Value	No Value	No Value	No Value
Arsenic	5.7E-04	2.9E-03	No Value	No Value	No Value	No Value
Barium	5.2E-01	2.2E+00	No Value	No Value	No Value	No Value
Benzene	8.4E-02	4.2E-01	4.9E+03	4.2E+01	4.2E+02	2.4E+06
Benzo(a)anthracene	2.2E-02	1.1E-01	No Value	No Value	No Value	No Value
Benzo(b)fluoranthene	2.2E-02	1.1E-01	No Value	No Value	No Value	No Value
Benzo(k)fluoranthene	2.2E-02	1.1E-01	No Value	No Value	No Value	No Value
Benzo(g,h,i)perylene	No Value	No Value	No Value	No Value	No Value	No Value
Benzo(a)pyrene	2.2E-03	1.1E-02	No Value	No Value	No Value	No Value
Beryllium	1.0E-03	5.1E-03	No Value	No Value	No Value	No Value
1,1-Biphenyl	No Value	No Value	6.0E+01	No Value	No Value	3.0E+04
Bis(2-chloroethyl) ether	3.4E-03	1.7E-02	2.9E+02	1.7E+00	1.7E+01	1.4E+05
Bis(2-chloroisopropyl) ether	No Value	No Value	2.2E+03	No Value	No Value	1.1E+06
Bis(2-ethylhexyl) phthalate	1.0E+00	5.1E+00	No Value	No Value	No Value	No Value
Boron	No Value	No Value	No Value	No Value	No Value	No Value
Bromodichloromethane	6.6E-02	3.3E-01	1.1E+07	3.3E+01	3.3E+02	5.5E+09
Bromoform (Tribromomethane)	2.2E+00	1.1E+01	1.3E+04	No Value	No Value	6.7E+06
Bromomethane	5.2E+00	2.2E+01	8.0E+04	2.6E+03	2.2E+04	4.0E+07
Cadmium (water)	5.8E-04	2.9E-03	No Value	No Value	No Value	No Value
Cadmium (soil)	5.8E-04	2.9E-03	No Value	No Value	No Value	No Value
Carbon tetrachloride	5.8E-02	2.9E-01	6.3E+04	2.9E+01	2.9E+02	3.2E+07
Chlordane	7.2E-03	3.6E-02	8.4E+00	No Value	No Value	4.2E+03
p-Chloroaniline	No Value	No Value	No Value	No Value	No Value	No Value
Chlorobenzene	1.0E+03	4.4E+03	1.0E+03	5.2E+05	4.4E+06	5.0E+05
Chloroethane	3.1E+04	1.3E+05	3.8E+05	1.6E+07	1.3E+08	1.9E+08
Chloroform	4.6E-01	2.3E+00	4.2E+05	2.3E+02	2.3E+03	2.1E+08
Chloromethane	9.4E+01	3.9E+02	No Value	4.7E+04	3.9E+05	No Value
2-Chlorophenol	No Value	No Value	1.9E+01	No Value	No Value	9.5E+03
Chromium (total)	No Value	No Value	No Value	No Value	No Value	No Value
Chromium III	No Value	No Value	No Value	No Value	No Value	No Value
Chromium VI	1.6E-05	8.2E-05	No Value	No Value	No Value	No Value
Chrysene	2.2E-01	1.1E+00	No Value	No Value	No Value	No Value
Cobalt	2.7E-04	1.4E-03	No Value	No Value	No Value	No Value
Copper	No Value	No Value	No Value	No Value	No Value	No Value
Cyanide	No Value	No Value	6.5E+02	No Value	No Value	3.3E+05
Dibenz(a,h)anthracene	2.0E-03	1.0E-02	No Value	No Value	No Value	No Value
Dibromochloromethane	No Value	No Value	No Value	No Value	No Value	No Value
1,2-dibromo-3-chloropropane	1.2E-03	6.1E-03	No Value	6.1E-01	6.1E+00	No Value
1,2-Dibromoethane	3.4E-02	1.7E-01	2.0E+05	1.7E+01	1.7E+02	1.0E+08
1,2-Dichlorobenzene	2.1E+02	8.8E+02	3.1E+05	1.0E+05	8.8E+05	1.5E+08
1,3-Dichlorobenzene	No Value	No Value	No Value	No Value	No Value	No Value
1,4-Dichlorobenzene	2.2E-01	1.1E+00	1.1E+03	1.1E+02	1.1E+03	5.5E+05
3,3-Dichlorobenzidine	8.1E-03	4.1E-02	No Value	No Value	No Value	No Value
Dichlorodiphenyldichloroethane (DDD)	3.5E-02	1.8E-01	No Value	No Value	No Value	No Value
Dichlorodiphenyldichloroethene (DDE)	2.5E-02	1.3E-01	No Value	No Value	No Value	No Value
Dichlorodiphenyltrichloroethane (DDT)	2.5E-02	1.3E-01	No Value	No Value	No Value	No Value
1,1-Dichloroethane	1.5E+00	7.7E+00	1.3E+05	7.6E+02	7.7E+03	6.3E+07
1,2-Dichloroethane	1.2E-01	5.8E-01	2.4E+03	5.8E+01	5.8E+02	1.2E+06
1,1-Dichloroethene	2.1E+02	8.8E+02	2.0E+06	1.0E+05	8.8E+05	1.0E+09
cis-1,2-Dichloroethene	7.3E+00	3.1E+01	No Value	3.7E+03	3.1E+04	No Value
trans-1,2-Dichloroethene	6.3E+01	2.6E+02	6.7E+04	3.1E+04	2.6E+05	3.4E+07
2,4-Dichlorophenol	No Value	No Value	1.4E+03	No Value	No Value	7.0E+05
1,2-Dichloropropane	2.4E-01	1.2E+00	1.2E+03	1.2E+02	1.2E+03	6.0E+05
1,3-Dichloropropene	1.5E-01	7.7E-01	4.2E+03	7.6E+01	7.7E+02	2.1E+06
Dieldrin	5.3E-04	2.7E-03	No Value	No Value	No Value	No Value
Diethyl phthalate	No Value	No Value	No Value	No Value	No Value	No Value
Dimethyl phthalate	No Value	No Value	No Value	No Value	No Value	No Value
2,4-Dimethylphenol	No Value	No Value	1.0E+00	No Value	No Value	5.0E+02
2,4-Dinitrophenol	No Value	No Value	No Value	No Value	No Value	No Value
2,4-Dinitrotoluene	2.7E-02	1.4E-01	No Value	No Value	No Value	No Value
1,4-Dioxane	3.2E-01	1.6E+00	6.1E+05	No Value	No Value	3.1E+08

**Summary Table E. Environmental Screening Levels (ESLs)
Indoor Air and Soil Gas
(Vapor Intrusion Concerns)**

Chemical	Indoor Air			Soil Gas		
	Residential Land Use (µg/m ³)	Commercial/Industrial Land Use (µg/m ³)	Odor Threshold* (µg/m ³)	Residential Land Use (µg/m ³)	Commercial/Industrial Land Use (µg/m ³)	Ceiling Level** (µg/m ³)
Dioxin (2,3,7,8-TCDD)	6.4E-08	3.2E-07	No Value	No Value	No Value	No Value
Endosulfan	No Value	No Value	No Value	No Value	No Value	No Value
Endrin	No Value	No Value	No Value	No Value	No Value	No Value
Ethylbenzene	9.7E-01	4.9E+00	2.0E+03	4.9E+02	4.9E+03	1.0E+06
Fluoranthene	No Value	No Value	No Value	No Value	No Value	No Value
Fluorene	No Value	No Value	No Value	No Value	No Value	No Value
Heptachlor	2.1E-03	1.0E-02	3.0E+02	No Value	No Value	1.5E+05
Heptachlor epoxide	9.4E-04	4.7E-03	3.0E+02	No Value	No Value	1.5E+05
Hexachlorobenzene	4.8E-03	2.4E-02	No Value	No Value	No Value	No Value
Hexachlorobutadiene	No Value	No Value	1.2E+04	No Value	No Value	6.0E+06
γ-Hexachlorocyclohexane (Lindane)	No Value	No Value	No Value	No Value	No Value	No Value
Hexachloroethane	2.2E-01	1.1E+00	No Value	No Value	No Value	No Value
Indeno(1,2,3-c,d)pyrene	2.2E-02	1.1E-01	No Value	No Value	No Value	No Value
Lead	No Value	No Value	No Value	No Value	No Value	No Value
Mercury (elemental)	3.1E-02	1.3E-01	No Value	1.6E+01	1.3E+02	No Value
Methoxychlor	No Value	No Value	No Value	No Value	No Value	No Value
Methylene chloride	5.2E+00	2.6E+01	5.6E+05	2.6E+03	2.6E+04	2.8E+08
Methyl ethyl ketone	5.2E+03	2.2E+04	3.2E+04	2.6E+06	2.2E+07	1.6E+07
Methyl isobutyl ketone	3.1E+03	1.3E+04	4.2E+02	1.6E+06	1.3E+07	2.1E+05
Methyl mercury	No Value	No Value	No Value	No Value	No Value	No Value
2-Methylnaphthalene	No Value	No Value	6.8E+01	No Value	No Value	3.4E+04
tert-Butyl methyl ether	9.4E+00	4.7E+01	5.3E+02	4.7E+03	4.7E+04	2.7E+05
Molybdenum	No Value	No Value	No Value	No Value	No Value	No Value
Naphthalene	7.2E-02	3.6E-01	4.4E+02	3.6E+01	3.6E+02	2.2E+05
Nickel	5.2E-02	2.2E-01	No Value	No Value	No Value	No Value
Pentachlorophenol	4.8E-01	2.4E+00	No Value	No Value	No Value	No Value
Perchlorate	No Value	No Value	No Value	No Value	No Value	No Value
Phenanthrene	No Value	No Value	5.5E+01	No Value	No Value	2.8E+04
Phenol	No Value	No Value	1.6E+02	No Value	No Value	7.8E+04
Polychlorinated biphenyls (PCBs)	2.4E-02	1.2E-01	No Value	No Value	No Value	No Value
Pyrene	No Value	No Value	No Value	No Value	No Value	No Value
Selenium	No Value	No Value	No Value	No Value	No Value	No Value
Silver	No Value	No Value	No Value	No Value	No Value	No Value
Styrene	9.4E+02	3.9E+03	1.4E+03	4.7E+05	3.9E+06	6.8E+05
tert-Butyl alcohol	No Value	No Value	No Value	No Value	No Value	No Value
1,1,1,2-Tetrachloroethane	3.2E-01	1.6E+00	No Value	1.6E+02	1.6E+03	No Value
1,1,2,2-Tetrachloroethane	4.2E-02	2.1E-01	1.0E+04	2.1E+01	2.1E+02	5.2E+06
Tetrachloroethene	4.1E-01	2.1E+00	3.2E+04	2.1E+02	2.1E+03	1.6E+07
Thallium	No Value	No Value	No Value	No Value	No Value	No Value
Toluene	3.1E+02	1.3E+03	3.0E+04	1.6E+05	1.3E+06	1.5E+07
Toxaphene	7.2E-03	3.6E-02	No Value	No Value	No Value	No Value
TPH gasoline	5.9E+02	2.5E+03	1.0E+02	3.0E+05	2.5E+06	5.0E+04
TPH diesel	1.4E+02	5.7E+02	1.0E+03	6.8E+04	5.7E+05	5.0E+05
TPH motor oil	No Value	No Value	No Value	No Value	No Value	No Value
1,2,4-Trichlorobenzene	4.2E+00	1.8E+01	2.2E+04	2.1E+03	1.8E+04	1.1E+07
1,1,1-Trichloroethane	5.2E+03	2.2E+04	6.5E+04	2.6E+06	2.2E+07	3.3E+07
1,1,2-Trichloroethane	1.5E-01	7.7E-01	No Value	7.6E+01	7.7E+02	No Value
Trichloroethene	5.9E-01	3.0E+00	1.4E+06	3.0E+02	3.0E+03	6.8E+08
2,4,5-Trichlorophenol	No Value	No Value	No Value	No Value	No Value	No Value
2,4,6-Trichlorophenol	7.8E-01	4.0E+00	3.0E-01	No Value	No Value	1.5E+02
Vanadium	No Value	No Value	No Value	No Value	No Value	No Value
Vinyl chloride	3.1E-02	1.6E-01	7.7E+05	1.6E+01	1.6E+02	3.9E+08
Xylenes	1.0E+02	4.4E+02	4.4E+02	5.2E+04	4.4E+05	2.2E+05
Zinc	No Value	No Value	No Value	No Value	No Value	No Value

Notes:

* The odor threshold is applicable for indoor air and other scenarios, such as a trench worker, where receptors may be directly exposed to vapors.

** The ceiling value for soil gas is the odor threshold with the same attenuation factor used for the residential scenario.

Residential Land Use generally considered adequate for other sensitive uses.

**Summary Table F. Environmental Screening Levels (ESLs)
Surface Water Bodies**

Chemical	Surface Water Screening Levels					Basis
	Freshwater (µg/L)	Basis	Marine (µg/L)	Basis	Estuarine (µg/L)	
Acenaphthene	2.0E+01	Ceiling Value	2.0E+01	Ceiling Level	2.0E+01	Ceiling Level
Acenaphthylene	3.0E+01	Aquatic Habitat	3.0E+01	Aquatic Habitat Goal	3.0E+01	Aquatic Habitat Goal
Acetone	1.5E+03	Aquatic Habitat Goal	1.5E+03	Aquatic Habitat Goal	1.5E+03	Aquatic Habitat Goal
Aldrin	1.4E-04	Bioaccumulation/Human Consumption	1.4E-04	Bioaccum/Human Consum	1.4E-04	Bioaccum/Human Consum
Anthracene	7.3E-01	Aquatic Habitat Goal	7.3E-01	Aquatic Habitat Goal	7.3E-01	Aquatic Habitat Goal
Antimony	6.0E+00	Drinking Water Toxicity	5.0E+02	Aquatic Habitat Goal	3.0E+01	Aquatic Habitat Goal
Arsenic	1.4E-01	Bioaccumulation/Human Consumption	1.4E-01	Bioaccum/Human Consum	1.4E-01	Bioaccum/Human Consum
Barium	1.0E+03	Drinking Water Toxicity	1.0E+03	Aquatic Habitat Goal	1.0E+03	Aquatic Habitat Goal
Benzene	1.0E+00	Drinking Water Toxicity	7.1E+01	Bioaccum/Human Consum	4.6E+01	Aquatic Habitat Goal
Benzo(a)anthracene	2.7E-02	Aquatic Habitat Goal	2.7E-02	Aquatic Habitat Goal	2.7E-02	Aquatic Habitat Goal
Benzo(b)fluoranthene	4.9E-02	Bioaccumulation/Human Consumption	4.9E-02	Bioaccum/Human Consum	4.9E-02	Bioaccum/Human Consum
Benzo(k)fluoranthene	4.9E-02	Bioaccumulation/Human Consumption	4.9E-02	Bioaccum/Human Consum	4.9E-02	Bioaccum/Human Consum
Benzo(g,h,i)perylene	1.0E-01	Aquatic Habitat Goal	1.0E-01	Aquatic Habitat Goal	1.0E-01	Aquatic Habitat Goal
Benzo(a)pyrene	1.4E-02	Aquatic Habitat Goal	1.4E-02	Aquatic Habitat Goal	1.4E-02	Aquatic Habitat Goal
Beryllium	2.7E+00	Aquatic Habitat Goal	5.3E-01	Aquatic Habitat Goal	5.3E-01	Aquatic Habitat Goal
1,1-Biphenyl	5.0E-01	Ceiling Value	5.0E-01	Ceiling Level	5.0E-01	Ceiling Level
Bis(2-chloroethyl) ether	5.5E-03	Drinking Water Toxicity	1.4E+00	Bioaccum/Human Consum	1.4E+00	Bioaccum/Human Consum
Bis(2-chloroisopropyl) ether	6.1E+01	Aquatic Habitat Goal	1.2E+01	Aquatic Habitat Goal	1.2E+01	Aquatic Habitat Goal
Bis(2-ethylhexyl) phthalate	4.0E+00	Drinking Water Toxicity	5.9E+00	Bioaccum/Human Consum	5.9E+00	Bioaccum/Human Consum
Boron	1.6E+00	Aquatic Habitat Goal	1.6E+00	Aquatic Habitat Goal	1.6E+00	Aquatic Habitat Goal
Bromodichloromethane	8.0E+01	Drinking Water Toxicity	3.2E+03	Aquatic Habitat Goal	1.1E+03	Aquatic Habitat Goal
Bromoform (Tribromomethane)	8.0E+01	Drinking Water Toxicity	3.6E+02	Bioaccum/Human Consum	3.6E+02	Bioaccum/Human Consum
Bromomethane	7.1E+00	Drinking Water Toxicity	3.2E+03	Aquatic Habitat Goal	1.6E+02	Aquatic Habitat Goal
Cadmium (water)	2.5E-01	Aquatic Habitat Goal	9.3E+00	Aquatic Habitat Goal	2.5E-01	Aquatic Habitat Goal
Carbon tetrachloride	5.0E-01	Drinking Water Toxicity	4.4E+00	Bioaccum/Human Consum	4.4E+00	Bioaccum/Human Consum
Chlordane	5.9E-04	Bioaccumulation/Human Consumption	5.9E-04	Bioaccum/Human Consum	5.9E-04	Bioaccum/Human Consum
p-Chloroaniline	5.0E+00	Aquatic Habitat Goal	5.0E+00	Aquatic Habitat Goal	5.0E+00	Aquatic Habitat Goal
Chlorobenzene	2.5E+01	Aquatic Habitat Goal	5.0E+01	Ceiling Level	2.5E+01	Aquatic Habitat Goal
Chloroethane	1.6E+01	Ceiling Value	1.6E+01	Ceiling Level	1.6E+01	Ceiling Level
Chloroform	8.0E+01	Drinking Water Toxicity	4.7E+02	Bioaccum/Human Consum	4.7E+02	Bioaccum/Human Consum
Chloromethane	1.3E+02	Drinking Water Toxicity	3.2E+03	Aquatic Habitat Goal	1.1E+03	Aquatic Habitat Goal
2-Chlorophenol	1.8E-01	Ceiling Value	1.8E-01	Ceiling Level	1.8E-01	Ceiling Level
Chromium (total)	5.0E+01	Drinking Water Toxicity	1.8E+02	Aquatic Habitat Goal	1.8E+02	Aquatic Habitat Goal
Chromium III	1.8E+02	Aquatic Habitat Goal	1.0E+03	Aquatic Habitat Goal	1.8E+02	Aquatic Habitat Goal
Chromium VI	2.0E-02	Drinking Water Toxicity	5.0E+01	Aquatic Habitat Goal	1.1E+01	Aquatic Habitat Goal
Chrysene	4.9E-02	Bioaccumulation/Human Consumption	4.9E-02	Bioaccum/Human Consum	4.9E-02	Bioaccum/Human Consum
Cobalt	3.0E+00	Aquatic Habitat Goal	3.0E+00	Aquatic Habitat Goal	3.0E+00	Aquatic Habitat Goal
Copper	9.0E+00	Aquatic Habitat Goal	3.1E+00	Aquatic Habitat Goal	3.1E+00	Aquatic Habitat Goal
Cyanide	5.2E+00	Aquatic Habitat Goal	1.0E+00	Aquatic Habitat Goal	1.0E+00	Aquatic Habitat Goal
Dibenz(a,h)anthracene	1.6E-02	Drinking Water Toxicity	4.9E-02	Bioaccum/Human Consum	4.9E-02	Bioaccum/Human Consum
Dibromochloromethane	4.6E+01	Bioaccumulation/Human Consumption	4.6E+01	Bioaccum/Human Consum	4.6E+01	Bioaccum/Human Consum
1,2-dibromo-3-chloropropane	2.0E-01	Drinking Water Toxicity	2.0E-01	Aquatic Habitat Goal	2.0E-01	Aquatic Habitat Goal
1,2-Dibromoethane	5.0E-02	Drinking Water Toxicity	1.4E+03	Aquatic Habitat Goal	1.4E+03	Aquatic Habitat Goal
1,2-Dichlorobenzene	1.0E+01	Ceiling Value	1.0E+01	Ceiling Level	1.0E+01	Ceiling Level
1,3-Dichlorobenzene	7.1E+01	Aquatic Habitat Goal	6.5E+01	Aquatic Habitat Goal	6.5E+01	Aquatic Habitat Goal
1,4-Dichlorobenzene	5.0E+00	Ceiling Value	1.1E+01	Ceiling Level	1.1E+01	Ceiling Level
3,3-Dichlorobenzidine	5.6E-02	Drinking Water Toxicity	7.7E-02	Bioaccum/Human Consum	7.7E-02	Bioaccum/Human Consum
Dichlorodiphenyldichloroethane (DDD)	8.4E-04	Bioaccumulation/Human Consumption	8.4E-04	Bioaccum/Human Consum	8.4E-04	Bioaccum/Human Consum
Dichlorodiphenyldichloroethene (DDE)	5.9E-04	Bioaccumulation/Human Consumption	5.9E-04	Bioaccum/Human Consum	5.9E-04	Bioaccum/Human Consum
Dichlorodiphenyltrichloroethane (DDT)	5.9E-04	Bioaccumulation/Human Consumption	5.9E-04	Bioaccum/Human Consum	5.9E-04	Bioaccum/Human Consum
1,1-Dichloroethane	5.0E+00	Drinking Water Toxicity	4.7E+01	Aquatic Habitat Goal	4.7E+01	Aquatic Habitat Goal
1,2-Dichloroethane	5.0E-01	Drinking Water Toxicity	9.9E+01	Bioaccum/Human Consum	9.9E+01	Bioaccum/Human Consum
1,1-Dichloroethene	3.2E+00	Bioaccumulation/Human Consumption	3.2E+00	Bioaccum/Human Consum	3.2E+00	Bioaccum/Human Consum
cis-1,2-Dichloroethene	6.0E+00	Drinking Water Toxicity	2.2E+04	Aquatic Habitat Goal	5.9E+02	Aquatic Habitat Goal
trans-1,2-Dichloroethene	1.0E+01	Drinking Water Toxicity	2.6E+02	Ceiling Level	2.6E+02	Ceiling Level
2,4-Dichlorophenol	3.0E-01	Ceiling Value	3.0E-01	Ceiling Level	3.0E-01	Ceiling Level
1,2-Dichloropropane	5.0E+00	Drinking Water Toxicity	1.0E+01	Ceiling Level	1.0E+01	Ceiling Level
1,3-Dichloropropane	5.0E-01	Drinking Water Toxicity	2.4E+01	Aquatic Habitat Goal	2.4E+01	Aquatic Habitat Goal
Dieldrin	1.4E-04	Bioaccumulation/Human Consumption	1.4E-04	Bioaccum/Human Consum	1.4E-04	Bioaccum/Human Consum
Diethyl phthalate	1.5E+00	Aquatic Habitat Goal	1.7E+00	Aquatic Habitat Goal	1.5E+00	Aquatic Habitat Goal
Dimethyl phthalate	1.5E+00	Aquatic Habitat Goal	1.7E+00	Aquatic Habitat Goal	1.5E+00	Aquatic Habitat Goal
2,4-Dimethylphenol	1.0E+02	Drinking Water Toxicity	1.1E+02	Aquatic Habitat Goal	1.1E+02	Aquatic Habitat Goal
2,4-Dinitrophenol	3.1E+01	Drinking Water Toxicity	1.5E+01	Aquatic Habitat Goal	1.5E+01	Aquatic Habitat Goal
2,4-Dinitrotoluene	9.9E-02	Drinking Water Toxicity	9.1E+00	Bioaccum/Human Consum	9.1E+00	Bioaccum/Human Consum
1,4-Dioxane	2.5E+00	Drinking Water Toxicity	5.0E+04	Ceiling Level	5.0E+04	Ceiling Level
Dioxin (2,3,7,8-TCDD)	1.4E-08	Bioaccumulation/Human Consumption	1.4E-08	Bioaccum/Human Consum	1.4E-08	Bioaccum/Human Consum
Endosulfan	5.6E-02	Aquatic Habitat Goal	8.7E-03	Aquatic Habitat Goal	8.7E-03	Aquatic Habitat Goal
Endrin	3.6E-02	Aquatic Habitat Goal	2.3E-03	Aquatic Habitat Goal	2.3E-03	Aquatic Habitat Goal

**Summary Table F. Environmental Screening Levels (ESLs)
Surface Water Bodies**

Chemical	Surface Water Screening Levels					
	Freshwater (µg/L)	Basis	Marine (µg/L)	Basis	Estuarine (µg/L)	Basis
Ethylbenzene	3.0E+01	Ceiling Value	3.0E+01	Ceiling Level	3.0E+01	Ceiling Level
Fluoranthene	8.1E+00	Aquatic Habitat Goal	8.0E+00	Aquatic Habitat Goal	8.0E+00	Aquatic Habitat Goal
Fluorene	3.9E+00	Aquatic Habitat Goal	3.0E+01	Aquatic Habitat Goal	3.9E+00	Aquatic Habitat Goal
Heptachlor	2.1E-04	Bioaccumulation/Human Consumption	2.1E-04	Bioaccum/Human Consum	2.1E-04	Bioaccum/Human Consum
Heptachlor epoxide	1.1E-04	Bioaccumulation/Human Consumption	1.1E-04	Bioaccum/Human Consum	1.1E-04	Bioaccum/Human Consum
Hexachlorobenzene	7.7E-04	Bioaccumulation/Human Consumption	7.7E-04	Bioaccum/Human Consum	7.7E-04	Bioaccum/Human Consum
Hexachlorobutadiene	8.6E-01	Drinking Water Toxicity	9.3E-01	Aquatic Habitat Goal	9.3E-01	Aquatic Habitat Goal
γ-Hexachlorocyclohexane (Lindane)	6.3E-02	Bioaccumulation/Human Consumption	1.6E-02	Aquatic Habitat Goal	1.6E-02	Aquatic Habitat Goal
Hexachloroethane	1.7E+00	Drinking Water Toxicity	8.9E+00	Bioaccum/Human Consum	8.9E+00	Bioaccum/Human Consum
Indeno(1,2,3-c,d)pyrene	4.9E-02	Bioaccumulation/Human Consumption	4.9E-02	Bioaccum/Human Consum	4.9E-02	Bioaccum/Human Consum
Lead	2.5E+00	Aquatic Habitat Goal	8.1E+00	Aquatic Habitat Goal	2.5E+00	Aquatic Habitat Goal
Mercury (elemental)	2.5E-02	Aquatic Habitat Goal	2.5E-02	Aquatic Habitat Goal	2.5E-02	Aquatic Habitat Goal
Methoxychlor	1.9E-02	Aquatic Habitat Goal	3.0E-03	Aquatic Habitat Goal	3.0E-03	Aquatic Habitat Goal
Methylene chloride	5.0E+00	Drinking Water Toxicity	1.6E+03	Bioaccum/Human Consum	1.6E+03	Bioaccum/Human Consum
Methyl ethyl ketone	4.9E+03	Drinking Water Toxicity	8.4E+03	Ceiling Level	8.4E+03	Ceiling Level
Methyl isobutyl ketone	1.2E+02	Drinking Water Toxicity	1.7E+02	Aquatic Habitat Goal	1.7E+02	Aquatic Habitat Goal
Methyl mercury	3.0E-03	Aquatic Habitat Goal	3.0E-03	Aquatic Habitat Goal	3.0E-03	Aquatic Habitat Goal
2-Methylnaphthalene	2.1E+00	Aquatic Habitat Goal	1.0E+01	Ceiling Level	2.1E+00	Aquatic Habitat Goal
tert-Butyl methyl ether	5.0E+00	Ceiling Value	1.8E+02	Ceiling Level	1.8E+02	Ceiling Level
Molybdenum	7.8E+01	Drinking Water	2.4E+02	Aquatic Habitat Goal	2.4E+02	Aquatic Habitat Goal
Naphthalene	6.1E+00	Drinking Water	2.1E+01	Ceiling Level	2.1E+01	Ceiling Level
Nickel	5.2E+01	Aquatic Habitat	8.2E+00	Aquatic Habitat Goal	8.2E+00	Aquatic Habitat Goal
Pentachlorophenol	1.0E+00	Drinking Water	7.9E+00	Aquatic Habitat Goal	7.9E+00	Aquatic Habitat Goal
Perchlorate	6.0E+00	Drinking Water	6.0E+02	Aquatic Habitat Goal	6.0E+02	Aquatic Habitat Goal
Phenanthrene	6.3E+00	Aquatic Habitat	4.6E+00	Aquatic Habitat Goal	4.6E+00	Aquatic Habitat Goal
Phenol	5.0E+00	Ceiling Value	2.6E+02	Aquatic Habitat Goal	2.6E+02	Aquatic Habitat Goal
Polychlorinated biphenyls (PCBs)	1.7E-04	Bioacc/Human Consum	1.7E-04	Bioaccum/Human Consum	1.7E-04	Bioaccum/Human Consum
Pyrene	2.0E+00	Aquatic Habitat	2.0E+00	Aquatic Habitat Goal	2.0E+00	Aquatic Habitat Goal
Selenium	5.0E+00	Aquatic Habitat	7.1E+01	Aquatic Habitat Goal	5.0E+00	Aquatic Habitat Goal
Silver	3.4E-01	Aquatic Habitat Goal	1.9E-01	Aquatic Habitat Goal	1.9E-01	Aquatic Habitat Goal
Styrene	1.0E+01	Ceiling Value	1.1E+01	Ceiling Level	1.1E+01	Ceiling Level
tert-Butyl alcohol	1.2E+01	Drinking Water Toxicity	1.8E+04	Aquatic Habitat Goal	1.8E+04	Aquatic Habitat Goal
1,1,1,2-Tetrachloroethane	5.1E-01	Drinking Water Toxicity	9.3E+02	Aquatic Habitat Goal	9.3E+02	Aquatic Habitat Goal
1,1,2,2-Tetrachloroethane	1.0E+00	Drinking Water Toxicity	1.1E+01	Bioaccum/Human Consum	1.1E+01	Bioaccum/Human Consum
Tetrachloroethene	5.0E+00	Drinking Water Toxicity	8.9E+00	Bioaccum/Human Consum	8.9E+00	Bioaccum/Human Consum
Thallium	2.0E+00	Drinking Water Toxicity	4.0E+00	Aquatic Habitat Goal	4.0E+00	Aquatic Habitat Goal
Toluene	4.0E+01	Ceiling Value	4.0E+01	Ceiling Level	4.0E+01	Ceiling Level
Toxaphene	2.0E-04	Aquatic Habitat Goal	2.0E-04	Aquatic Habitat Goal	2.0E-04	Aquatic Habitat Goal
TPH gasoline	1.0E+02	Ceiling Value	3.7E+03	Aquatic Habitat Goal	5.0E+02	Aquatic Habitat Goal
TPH diesel	1.0E+02	Ceiling Value	6.4E+02	Aquatic Habitat Goal	6.4E+02	Aquatic Habitat Goal
TPH motor oil	1.0E+02	Ceiling Value	6.4E+02	Aquatic Habitat Goal	6.4E+02	Aquatic Habitat Goal
1,2,4-Trichlorobenzene	5.0E+00	Drinking Water Toxicity	6.5E+01	Aquatic Habitat Goal	2.5E+01	Aquatic Habitat Goal
1,1,1-Trichloroethane	6.2E+01	Aquatic Habitat Goal	3.1E+03	Aquatic Habitat Goal	6.2E+01	Aquatic Habitat Goal
1,1,2-Trichloroethane	5.0E+00	Drinking Water Toxicity	4.2E+01	Bioaccum/Human Consum	4.2E+01	Bioaccum/Human Consum
Trichloroethene	5.0E+00	Drinking Water Toxicity	8.1E+01	Bioaccum/Human Consum	8.1E+01	Bioaccum/Human Consum
2,4,5-Trichlorophenol	6.3E+01	Aquatic Habitat Goal	1.1E+01	Aquatic Habitat Goal	1.1E+01	Aquatic Habitat Goal
2,4,6-Trichlorophenol	1.6E+00	Drinking Water Toxicity	6.5E+00	Bioaccum/Human Consum	6.5E+00	Bioaccum/Human Consum
Vanadium	1.9E+01	Aquatic Habitat Goal	1.9E+01	Aquatic Habitat Goal	1.9E+01	Aquatic Habitat Goal
Vinyl chloride	5.0E-01	Drinking Water Toxicity	5.3E+02	Bioaccum/Human Consum	5.3E+02	Bioaccum/Human Consum
Xylenes	2.0E+01	Ceiling Value	1.0E+02	Aquatic Habitat Goal	1.0E+02	Aquatic Habitat Goal
Zinc	1.2E+02	Aquatic Habitat Goal	8.1E+01	Aquatic Habitat Goal	8.1E+01	Aquatic Habitat Goal

Notes:

Surface water screening levels lowest of drinking water goal (freshwater only), chronic aquatic habitat goal, bioaccumulation in aquatic organisms and subsequent consumption by humans, and general, and nuisance goals (odors, etc.).
Estuarine screening levels lowest of freshwater and marine screening levels.