	IWQC (Non-cancer, FIR - US EPA HH DW + C)		Rfd (US EPA IRIS, "new")	Factor (CSF)	Bioaccumulati on Factor (BAF) (national supp info)	BAF TL2	BAF TL3	BAF TL4	Cancer risk level (10-5, AB)	BW (US EPA)	Drinking Water Intake (DI) (US EPA)	General Fish IR (calculated)	Relative Source Contribution (RSC)	Notes
Units Pollutant	(µg/L)	(μg/L)	mg/kg	per mg/kg- day	L/kg	L/kg	L/kg	L/kg	unitless	kg	L/d	kg/d	unitless 0.2	
Acenaphthene Acrolein	4.79 2.87		6.00E-02 5.00E-04	ND	ND 1	510.00 1.00	1.00	1.00	0.00001 0.00001	80 80	2.4 2.4	0.3881 0.3881	0.2 0.2	
Acrylonitrile Aldrin	0.0001	0.53 0.00001	N 3.00E-05	5.40E-01 1.70E+01	1 18000	1.00 18000.00	1.00 310000.00	1.00 650000.00	0.00001 0.00001	80 80	2.4	0.3881 0.3881	0.2	
alpha-Hexachlorocyclohexa alpha-Endosulfan	1.82	0.0002	8.00E-03 6.00E-03	6.30E+00 ND	#N/A 130	1700.00 130.00	1400.00 180.00	1500.00 200.00	0.00001 0.00001	80 80	2.4	0.3881 0.3881	0.2	
Anthracene	20.07		3.00E-01	ND	ND .	610.00			0.00001	80	2.4	0.3881	0.2	RSC = diff (National water quality
Antimony Arsenic	4.59 0.25	0.03	4.00E-04 3.00E-04	1.50E+00	#N/A #N/A	1.00 44.00	1.00	1.00	0.00001	80 80	2.4	0.3881 0.3881	0.4	criteria)
Asbestos Barium	1147.74		N 2.00E-01		#N/A #N/A	1.00			0.00001 0.00001	80	2.4	0.3881 0.3881	0.2	Appendix C, USEPA, 1986 AWQC
Benzene	2.11 2.11	14.05 3.83	5.00E-04 5.00E-04	1.50E-02 5.50E-02	#N/A #N/A	3.60 3.60	4.50 4.50	5.00 5.00	0.00001 0.00001	80 80	2.4	0.3881 0.3881	0.2	two values b/c range two values b/c range
Benzidine Benzo(a)anthracene	16.31	0.001 0.001	3.00E-03 N	2.30E+02 7.30E-01	1.4 ND	1.40 3900.00	1.60	1.70	0.00001 0.00001	80	2.4	0.3881	0.2	
Benzo(a)pyrene Benzo(b)fluoranthene	0.003	0.0001	3.00E-04 N	7.30E+00 7.30E-01	ND ND	3900.00 3900.00			0.00001	80	2.4	0.3881	0.2	
Benzo(k)fluoranthene Beryllium	3.27	0.01	N 2.00E-03 N	7.30E-02 1.80E+00	ND #N/A #N/A	3900.00 19.00 110.00	19.00 160.00	19.00 180.00	0.00001	80 80 80	2.4 2.4 2.4	0.3881 0.3881 0.3881	0.2 0.2 0.2	
beta-Hexachlorocyclohexan beta-Endosulfan	2.87	0.01	0.006 4.00E-02	1.800+00	80 6.7	80.00 6.70	110.00	130.00	0.00001 0.00001 0.00001	80 80	2.4	0.3881	0.2	
Bis(2-Chloro-1-methylethyl) Bis(2-Chloroethyl) Ether Bis(2-Ethylhexyl) Phthalate	3.45	0.25 0.21	4.00E-02 — 0.06	1.10E+00 1.40E-02	1.4 ND	1.40 710.00	1.60	1.70	0.00001	80 80	2.4 2.4 2.4	0.3881 0.3881 0.3881	0.2 0.2 0.2	
Bis(Chloromethyl) Ether Bromoform	103.20	0.001 38.22	N 3.00E-02	2.20E+02 4.50E-03	1 5.8	1.00	1.00 7.50	1.00 8.50	0.00001	80 80	2.4	0.3881	0.2	
Butylbenzyl Phthalate Cadmium	2.82 0.002	0.06	1.30E+00 5.00E-04	1.90E-03	ND #N/A	19000.00 12400.00	12400.00	12400.00	0.00001 0.00001	80 80	2.4	0.3881	0.2	
Carbon Tetrachloride Chlordane	10.65 0.004	1.90 0.001	4.00E-03 5.00E-04	7.00E-02 3.50E-01	9.3	9.30	12.00	14.00	0.00001	80 80	2.4	0.3881	0.2	
Chlorobenzene Chlorodibromomethane	40.85 83.42	5.21	2.00E-02 2.00E-02	4.00E-02	14 3.7	14.00	19.00	22.00 5.30	0.00001	80 80	2.4	0.3881	0.2	
Chloroform Chlorophenoxy Herbicide (2	45.89 4-D) 451.29		1.00E-02 2.10E-01		2.8 ND	2.80 13.00	3.40	3.80	0.00001 0.00001	80 80	2.4 2.4	0.3881 0.3881	0.2	
Chlorophenoxy Herbicide (2 Chromium (III)			8.00E-03 1.50E+00		ND #N/A	58.00			0.00001 0.00001	80 80	2.4	0.3881 0.3881	0.8	RSC = diff
Chromium (VI) Chrysene	13.47	0.07	3.00E-03 N	7.30E-03	#N/A ND	3.00 3900.00	3.00	3.00	0.00001 0.00001	80 80	2.4 2.4	0.3881 0.3881	0.2	
Copper			N		#N/A	290.00	290.00	290.00	0.00001	80	2.4	0.3881	0.2	US EPA Human Health Criteria Calculation Matrix
Cyanide Cylindrospermopsin	3.62		6.30E-04 N		ND #N/A	1.00			0.00001 0.00001	80 80	2.4 2.4	0.3881 0.3881	0.2	
Dibenzo(a,h)anthracene Dichlorobromomethane	12.90	0.0001 6.33	N 3.00E-03	7.30E+00 3.40E-02	ND 3.4	3900.00 3.40	4.30	4.80	0.00001 0.00001	80 80	2.4	0.3881 0.3881	0.2	
Dieldrin Diethyl Phthalate	0.0001 35.61	0.00001	5.00E-05 8.00E-01	1.60E+01	14000 ND	14000.00 920.00	210000.00	410000.00	0.00001 0.00001	80 80	2.4	0.3881 0.3881	0.2	
Dimethyl Phthalate Di-n-Butyl Phthalate	102.91 1.42		1.00E+01 1.00E-01		ND ND	4000.00 2900.00			0.00001 0.00001	80 80	2.4	0.3881 0.3881	0.2	
Dinitrophenols Endosulfan Sulfate	10.72 2.63		2.00E-03 6.00E-03		ND 88	1.51 88.00	120.00	140.00	0.00001 0.00001	80 80	2.4	0.3881 0.3881	0.2 0.2	
Endrin Endrin Aldehyde	0.01 0.11		3.00E-04 3.00E-04		4600 440	4600.00 440.00	36000.00 920.00	46000.00 850.00	0.00001 0.00001	80	2.4	0.3881	0.8	RSC = diff RSC = diff
Ethylbenzene Fluoranthene	8.54 1.09		2.20E-02 4.00E-02		100 ND	100.00 1500.00	140.00	160.00	0.00001	80	2.4	0.3881	0.2	
Fluorene gamma-Hexachlorocyclohex		0.00004	4.00E-02 4.70E-03	4 405 .00	230 1200	230.00 1200.00	450.00 2400.00	710.00 2500.00	0.00001	80 80	2.4	0.3881	0.2	RSC = diff
Heptachlor Heptachlor Epoxide	0.0003 0.0001	0.00004	1.00E-04 1.30E-05	4.10E+00 5.50E+00	12000 4000	12000.00 4000.00	180000.00 28000.00	330000.00 35000.00	0.00001	80	2.4	0.3881	0.2	
Hexachlorobenzene Hexachlorobutadiene	0.002 0.001	0.0001 0.002 0.007	8.00E-04 3.00E-04	1.02E+00 4.00E-02 1.80E+00	18000 23000 160	18000.00 23000.00 160.00	46000.00 2800.00 220.00	90000.00 1100.00 250.00	0.00001 0.00001 0.00001	80 80 80	2.4 2.4 2.4	0.3881 0.3881 0.3881	0.2 0.2 0.2	
Hexachlorocyclohexane (HC Hexachlorocyclopentadiene Hexachloroethane	0.40 0.02	0.007	6.00E-03 7.00E-04	4.00E-02	620 1200	620.00 1200.00	1500.00 280.00	1300.00 600.00	0.00001	80 80	2.4	0.3881	0.2	
Indeno(1,2,3-cd)pyrene Isophorone	1019.96	0.001 268.41	N 2.00E-01	7.30E-01 9.50E-04	ND 1.9	3900.00 1.90	2.20	2.40	0.00001 0.00001	80 80	2.4	0.3881	0.2	
Manganese Methylmercury	933.33 0.67	200.41	1.40E-01 1.00E-04	5.302-04	#N/A #N/A	1.50	27900.00	140000.00	0.00001	80 80	2.4	0.3881	0.2	
Methoxychlor Methyl Bromide	0.001 111.66		2.00E-05 2.00E-02		1400	1400.00 1.20	4800.00 1.30	4400.00 1.40	0.00001 0.00001	80 80	2.4	0.3881	0.2	RSC = diff
Methylene Chloride Microcystins	32.62	135.90	6.00E-03 N	2.00E-03	1.4 #N/A	1.40	1.50	1.60	0.00001	80 80	2.4	0.3881	0.2	
Nickel Nitrates	7.35 10666.67		2.00E-02 1.60E+00		#N/A #N/A	106.00	106.00	106.00	0.00001	80 80	2.4	0.3881 0.3881	0.2	
Nitrobenzene Nitrosamines	9.72		2.00E-03 N		2.3 #N/A	2.30	2.80	3.10	0.00001 0.00001	80 80	2.4 2.4	0.3881 0.3881	0.2	
Nitrosodibutylamine Nitrosodiethylamine	10.72	0.05 0.002	2.00E-03	5.40E+00 1.50E+02	#N/A #N/A	1.51 0.20			0.00001 0.00001	80 80	2.4	0.3881 0.3881	0.2	
Nitrosopyrrolidine N-Nitrosodimethylamine		0.16 0.01		2.10E+00 5.10E+01	#N/A #N/A				0.00001 0.00001	80 80	2.4	0.3881 0.3881	0.2	
N-Nitrosodi-n-Propylamine N-Nitrosodiphenylamine		0.05 68.03		7.00E+00 4.90E-03	#N/A #N/A				0.00001 0.00001	80 80	2.4	0.3881 0.3881	0.2	
Pathogen and Pathogen Indi Pentachlorobenzene	0.01		8.00E-04		#N/A 3500	3500.00	4500.00	10000.00	0.00001 0.00001	80 80	2.4	0.3881 0.3881	0.2	
Pentachlorophenol Phenol	4.11 1609.58	0.10	5.00E-03 3.00E-01	4.00E-01	44 1.5	44.00 1.50	290.00 1.70	520.00 1.90	0.00001 0.00001	80 80	2.4	0.3881 0.3881	0.2	
Polychlorinated Biphenyls (I Pyrene	1.43		3.00E-02	2.00E+00	#N/A ND	860.00			0.00001 0.00001	80 80	2.4	0.3881 0.3881	0.2	
Selenium Tetrachloroethylene	18.77 4.48	17.79	5.00E-03 6.00E-03	2.10E-03	#N/A 49	4.80 49.00	66.00	76.00	0.00001	80 80	2.4	0.3881	0.2	
Thallium Toluene Toxaphene	0.02 191.93 0.01	0.001	6.80E-05 8.00E-02 3.50E-04	1.10E+00	#N/A 11 1700	116.00 11.00 1700.00	15.00 6600.00	17.00 6300.00	0.00001	80 80 80	2.4 2.4 2.4	0.3881 0.3881 0.3881	0.2 0.2 0.2	
Trichloroethylene	1.38 16.31	2.77 0.18	5.00E-04 3.00E-03	5.00E-02 1.50E+00	8.7 1.4	8.70 1.40	12.00	13.00	0.00001 0.00001 0.00001	80 80	2.4	0.3881	0.2	
Vinyl Chloride Zinc 1,1,1-Trichloroethane	12.72	0.18	3.00E-01 2.00E+00	1.502+00	#N/A 6.9	966.00 6.90	966.00 9.00	966.00 10.00	0.00001	80 80	2.4	0.3881	0.2	
1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane			2.00E-02 4.00E-03	2.00E-01 5.70E-02	5.7	5.70	7.40 7.80	8.40 8.90	0.000001	80 80	2.4		0.2	
1,1-Dichloroethylene 1,2,4,5-Tetrachlorobenzene			5.00E-02 3.00E-04	3.702.02	2 17000	2.00 17000.00	2.40 2900.00	2.60 1500.00	0.000001	80 80	2.4		0.2	
1,2,4-Trichlorobenzene 1,2-Dichlorobenzene			1.00E-02 3.00E-01	2.90E-02	2800 52	2800.00 52.00	1500.00 71.00	430.00 82.00	0.000001	80 80	2.4		0.2	
1,2-Dichloroethane 1,2-Dichloropropane			7.80E-02 8.93E-02	3.30E-03 3.60E-02	1.6 2.9	1.60 2.90	1.80 3.50	1.90 3.90	0.000001 0.000001	80 80	2.4		0.2	
1,2-Diphenylhydrazine Trans-1,2-Dichloroethylene			2.00E-02	8.00E-01	18 3.3	18.00 3.30	24.00 4.20	27.00 4.70	0.000001 0.000001	80 80	2.4 2.4		0.2	
1,3-Dichlorobenzene 1,3-Dichloropropene	13.33		2.00E-03 2.50E-02	1.22E-01	31 2.3	31.00 2.30	120.00 2.70	190.00 3.00	0.000001 0.000001	80 80	2.4		0.2	
1,4-Dichlorobenzene 2,3,7,8-TCDD (Dioxin)			7.00E-02 7.00E-10		28 #N/A	28.00	66.00	84.00	0.000001 0.000001	80 80	2.4		0.2	
2,4,5-Trichlorophenol 2,4,6-Trichlorophenol			1.00E-01 1.00E-03	1.10E-02	100 94	100.00 94.00	140.00 130.00	160.00 150.00	0.000001 0.000001	80 80	2.4		0.2	
2,4-Dichlorophenol 2,4-Dimethylphenol			3.00E-03 2.00E-02		31 4.8	31.00 4.80	42.00 6.20	48.00 7.00	0.000001 0.000001	80 80	2.4		0.2	
2,4-Dinitrophenol 2,4-Dinitrotoluene	12.82		2.00E-03 2.00E-03	6.67E-01	ND 2.8	4.40 2.80	3.50	3.90	0.000001 0.000001	80 80	2.4	0.022	0.2 0.2	
2-Chloronaphthalene 2-Chlorophenol			8.00E-02 5.00E-03		150 3.8	150.00 3.80	210.00 4.80	240.00 5.40	0.000001 0.000001	80 80	2.4		0.8	RSC = diff
2-Methyl-4,6-Dinitrophenol 3,3'-Dichlorobenzidine			3.00E-04	4.50E-01	6.8 44	6.80 44.00	8.90 60.00	10.00 69.00	0.000001	80 80	2.4		0.2	
3-Methyl-4-Chlorophenol p,p'-Dichlorodiphenyldichlo			1.00E-01 5.00E-04	2.40E-01	25 33000	25.00 33000.00	34.00 140000.00	39.00 240000.00	0.000001	80 80	2.4		0.2	
p,p'-Dichlorodiphenyldichlo p,p'-Dichlorodiphenyltrichlo Ammonia			5.00E-04 5.00E-04 1.00E-01	1.67E-01 3.40E-01	270000 35000 #N/A	270000.00 35000.00	1100000.00 240000.00	3100000.00 1100000.00	0.000001	80 80 80	2.4 2.4 2.4	0.161	0.2 0.2 0.2	
Ammonia Nitrite Calcium	000.07		1.00E-01 N N		#N/A #N/A #N/A				0.000001 0.000001 0.000001	80 80 80	2.4 2.4 2.4	0.161 0.161 0.161	0.2 0.2 0.2	
Chloride Fluoride	400.00		N 6.00E-02		#N/A #N/A #N/A				0.000001 0.000001	80 80	2.4 2.4 2.4	0.161 0.161	0.2 0.2 0.2	
Sulfate Acrylamide	13.33	0.07	N 2.00E-03	5.00E-01	#N/A #N/A				0.000001	80 80	2.4	0.161 0.161	0.2	
Petroleum hydrocarbons - F Petroleum hydrocarbons - F	Į.	0.07	2.00E-03 N N	2.002-01	#N/A #N/A				0.000001	80 80	2.4	0.161 0.161	0.2	
Naphthenic acids (total) Xylene	114.15		N 2.00E-01		#N/A #N/A	159.22	165.91	160.65	0.000001	80 80	2.4	0.161 0.161	0.2	
Aluminum Boron	1333.33		N 2.00E-01		#N/A #N/A	231.00	231.00	231.00	0.000001 0.000001	80 80	2.4	0.161 0.161	0.2	
Iron Lead			N N		#N/A #N/A				0.000001 0.000001	80 80	2.4	0.161 0.161	0.2	
Lithium Mercury (inorganic)			N		#N/A #N/A		1		0.000001 0.000001	80 80	2.4 2.4	0.161 0.161	0.2	
Molybdenum	33.33 33.33		5.00E-03 5.00E-03		#N/A #N/A				0.000001 0.000001	80 80	2.4 2.4	0.161 0.161	0.2 0.2	
Version 25 Inntium	4000.00 20.00		6.00E-01 3.00E-03		#N/A #N/A				0.000001	80 80	2.4	0.161 0.161	0.2	
Vanadium Naphthalene Phenanthrene	133.33		N 2.00E-02		#N/A #N/A				0.000001	80 80	2.4	0.161 0.161	0.2	
rnenantnrene	200.00		3.00E-02		#N/A				0.000001	80	2.4	0.161	0.2	

Parameter	BW (kg) 80	Conversion factor (ug/mg) 1000	Cancer risk level (10-5)	Cancer Slope Factor, CSF (per mg/kg-d)	Reference Dose, RfD (mg/kg-d)	Relative Source Contribution, RSC (-)	Plant Consumption Rate (kg/d) 0.0068	BCF sed- plant (US EPA 1999)	Medicinal Plant SW Quality Criteria (ug/L)
Acenaphthene					0.06	0.2			
Anthracene					0.3	0.2			
Antimony					0.0004	0.4		0.2	9.41E+03
Arsenic			0.00001	1.5				0.036	2.18E+03
Barium					0.2	0.2		0.15	3.14E+06
Benzene			0.00001	0.015	0.0005			0	
Benzo(a)anthracene			0.00001	0.73				0.0202	7.98E+03
Benzo(a)pyrene			0.00001	7.3				0	
Benzo(b)fluoranthene			0.00001	0.73				0.0101	1.60E+04
Benzo(k)fluoranthene			0.00001	0.073				0.0101	1.60E+05
Cadmium					0.0005	0.2		0.364	3.23E+03
Chrysene			0.00001	0.0073				0.0187	8.62E+05
Copper					х	0.2		0.4	
Chromium IV					0.003	0.2		0.0075	9.41E+05
Chromium III					1.5	0.2		0	
Cyanide					0.00063	0.2		0	
Dibenzo(a,h)anthracene			0.00001	7.3				0.0064	2.52E+03
Ethylbenzene					0.022	0.2		0	
Fluoranthene					0.04	0.2		0	
Fluorene					0.04	0.2		0	
Indeno(1,2,3-cd)pyrene			0.00001	0.73				0.0039	4.13E+04
Lead					0.14	0.2		0.045	7.32E+06
Manganese									
Mercury (total)					0.0003	0.2		0.0375	1.88E+04
Nickel					0.02	0.2		0.032	1.47E+06
Phenol					0.6	0.2			
Pyrene					0.03	0.2		0	
Selenium					0.005	0.2		0.016	7.35E+05
Thallium					0.000068	0.2		0.04	4.00E+03
Toluene					0.0097	0.2		0	
Zinc					0.3	0.2		1.2E-12	5.88E+17