

Appendix A

Table 1 – Medium-Specific Concentrations (MSCs) for Organic Regulated Substances in Groundwater

Regulated Substance	CASRN	Used Aquifers				Nonuse Aquifers	
		TDS ≤ 2500 mg/L		TDS > 2500 mg/L			
		R	NR	R	NR	R	NR
ACENAPHTHENE	83-32-9	[2,500] 2,100 G	3,800 S	3,800 S	3,800 S	3,800 S	3,800 S
ACENAPHTHYLENE	208-96-8	[2,500] 2,100 G	[7,000] 5,800 G	16,000 S	16,000 S	16,000 S	16,000 S
ACEPHATE	30560-19-1	[84] 42 G	[390] 120 G	[8,400] 4,200 G	[39,000] 12,000 G	[84] 42 G	[390] 120 G
ACETALDEHYDE	75-07-0	19 N	79 N	1,900 N	7,900 N	19 N	79 N
ACETONE	67-64-1	[38,000] 31,000 G	[110,000] 88,000 G	[3,800,000] 3,100,000 G	[11,000,000] 8,800,000 G	[380,000] 310,000 G	[1,100,000] 880,000 G
ACETONITRILE	75-05-8	130 N	530 N	13,000 N	53,000 N	1,300 N	5,300 N
ACETOPHENONE	98-86-2	[4,200] 3,500 G	[12,000] 9,700 G	[420,000] 350,000 G	[1,200,000] 970,000 G	[4,200] 3,500 G	[12,000] 9,700 G
ACETYLAMINOFLUORENE, 2- (2AAF)	53-96-3	[0.19] 0.17 G	[0.89] 0.72 G	[19] 17 G	[89] 72 G	[190] 170 G	[890] 720 G
ACROLEIN	107-02-8	0.042 N	0.18 N	4.2 N	18 N	0.42 N	1.8 N
ACRYLAMIDE	79-06-1	0.19 N	2.5 N	19 N	250 N	0.19 N	2.5 N
ACRYLIC ACID	79-10-7	2.1 N	8.8 N	210 N	880 N	210 N	880 N
ACRYLONITRILE	107-13-1	0.72 N	3.7 N	72 N	370 N	72 N	370 N
ALACHLOR	15972-60-8	2 M	2 M	200 M	200 M	2 M	2 M
ALDICARB	116-06-3	3 M	3 M	300 M	300 M	3,000 M	3,000 M
ALDICARB SULFONE	1646-88-4	2 M	2 M	200 M	200 M	2 M	2 M
ALDICARB SULFOXIDE	1646-87-3	4 M	4 M	400 M	400 M	4 M	4 M
ALDRIN	309-00-2	[0.043] 0.038 G	[0.2] 0.16 G	[4.3] 3.8 G	[20] 16 G	20 S	20 S
ALLYL ALCOHOL	107-18-6	0.21 N	0.88 N	21 N	88 N	21 N	88 N
AMETRYN	834-12-8	60 H	60 H	6,000 H	6,000 H	60 H	60 H
AMINOBIPHENYL, 4-	92-67-1	[0.035] 0.031 G	[0.16] 0.13 G	[3.5] 3.1 G	[16] 13 G	[35] 31 G	[160] 130 G
AMITROLE	61-82-5	[0.78] 0.69 G	[3.6] 2.9 G	[78] 69 G	[360] 290 G	[780] 690 G	[3,600] 2,900 G
AMMONIA	7664-41-7	30,000 H	30,000 H	3,000,000 H	3,000,000 H	30,000 H	30,000 H
AMMONIUM SULFAMATE	7773-06-0	2,000 H	2,000 H	200,000 H	200,000 H	2,000 H	2,000 H
ANILINE	62-53-3	2.1 N	8.8 N	210 N	880 N	2.1 N	8.8 N
ANTHRACENE	120-12-7	66 S	66 S	66 S	66 S	66 S	66 S

All concentrations in µg/L

R = Residential

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THMs – The values listed for trihalomethanes (THMs) are the total for all THMs combined.

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Regulated Substance	CASRN	Used Aquifers				Nonuse Aquifers	
		TDS ≤ 2500 mg/L		TDS > 2500 mg/L		R	NR
		R	NR	R	NR		
ATRAZINE	1912-24-9	3 M	3 M	300 M	300 M	3 M	3 M
AZINPHOS-METHYL (GUTHION)	86-50-0	[130] <u>52</u> G	[350] <u>150</u> G	[13,000] <u>5,200</u> G	[32,000] <u>15,000</u> S] G	[130] <u>52</u> G	[350] <u>150</u> G
BAYGON (PROPOXUR)	114-26-1	3 H	3 H	300 H	300 H	3,000 H	3,000 H
BENOMYL	17804-35-2	[2,000] <u>270</u> S] G	[2,000] <u>1,100</u> S] G	2,000 S	2,000 S	[2,000] <u>270</u> S] G	[2,000] <u>1,100</u> S] G
BENTAZON	25057-89-0	200 H	200 H	20,000 H	20,000 H	200 H	200 H
BENZENE	71-43-2	5 M	5 M	500 M	500 M	500 M	500 M
BENZIDINE	92-87-5	[0.00098] <u>0.00092</u> G	[0.015] <u>0.012</u> G	[0.098] <u>0.092</u> G	[1.5] <u>1.2</u> G	[0.98] <u>0.92</u> G	[15] <u>12</u> G
BENZO[A]ANTHRACENE	56-55-3	[0.32] <u>0.3</u> G	[4.9] <u>3.9</u> G	11 S	11 S	11 S	11 S
BENZO[A]PYRENE	50-32-8	0.2 M	0.2 M	3.8 S	3.8 S	3.8 S	3.8 S
BENZO[B]FLUORANTHENE	205-99-2	[0.19] <u>0.18</u> G	1.2 S	1.2 S	1.2 S	1.2 S	1.2 S
BENZO[GHI]PERYLENE	191-24-2	0.26 S	0.26 S	0.26 S	0.26 S	0.26 S	0.26 S
BENZO[K]FLUORANTHENE	207-08-9	[0.19] <u>0.18</u> G	0.55 S	0.55 S	0.55 S	0.55 S	0.55 S
BENZOIC ACID	65-85-0	[170,000] <u>140,000</u> G	[470,000] <u>390,000</u> G	2,700,000 S	2,700,000 S	[170,000] <u>140,000</u> G	[470,000] <u>390,000</u> G
BENZOTRICHLORIDE	98-07-7	[0.056] <u>0.05</u> G	[0.26] <u>0.21</u> G	[5.6] <u>5</u> G	[26] <u>21</u> G	[56] <u>5</u> G	[260] <u>21</u> G
BENZYL ALCOHOL	100-51-6	[4,200] <u>3,500</u> G	[12,000] <u>9,700</u> G	[420,000] <u>350,000</u> G	[1,200,000] <u>970,000</u> G	[4,200] <u>3,500</u> G	[12,000] <u>9,700</u> G
BENZYL CHLORIDE	100-44-7	1 N	5.1 N	100 N	510 N	100 N	510 N
BETA PROPIOLACTONE	57-57-8	0.012 N	0.063 N	1.2 N	6.3 N	0.12 N	0.63 N
BHC, ALPHA-	319-84-6	[0.12] <u>0.1</u> G	[0.54] <u>0.43</u> G	[12] <u>10</u> G	[54] <u>43</u> G	[120] <u>100</u> G	[540] <u>430</u> G
BHC, BETA-	319-85-7	[0.41] <u>0.36</u> G	[1.9] <u>1.5</u> G	[41] <u>36</u> G	100 S	100 S	100 S
BHC, GAMMA (LINDANE)	58-89-9	0.2 M	0.2 M	20 M	20 M	200 M	200 M
BIPHENYL, 1,1-	92-52-4	[91] <u>0.84</u> G] N	[430] <u>3.5</u> G] N	[7,200] <u>84</u> S] N	[7,200] <u>350</u> S] N	[7,200] <u>84</u> S] N	[7,200] <u>350</u> S] N
BIS(2-CHLOROETHOXY)METHANE	111-91-1	[130] <u>100</u> G	[350] <u>290</u> G	[13,000] <u>10,000</u> G	[35,000] <u>29,000</u> G	[130] <u>100</u> G	[350] <u>290</u> G
BIS(2-CHLOROETHYL)ETHER	111-44-4	0.15 N	0.76 N	15 N	76 N	15 N	76 N
BIS(2-CHLORO-ISOPROPYL)ETHER	108-60-1	300 H	300 H	30,000 H	30,000 H	30,000 H	30,000 H

All concentrations in µg/L

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		R	NR	R	NR		
BIS(CHLOROMETHYL)ETHER	542-88-1	0.00079 N	0.004 N	0.079 N	0.4 N	0.079 N	0.4 N
BIS[2-ETHYLHEXYL] PHTHALATE	117-81-7	6 M	6 M	290 S	290 S	290 S	290 S
BISPHENOL A	80-05-7	<u>[2,100]</u> G <u>1,700</u>	<u>[5,800]</u> G <u>4,900</u>	120,000 S	120,000 S	120,000 S	120,000 S
BROMACIL	314-40-9	70 H	70 H	7,000 H	7,000 H	70 H	70 H
<u>BROMOBENZENE</u>	<u>108-86-1</u>	<u>0.06</u> H	<u>0.06</u> H	<u>6</u> H	<u>6</u> H	<u>0.06</u> H	<u>0.06</u> H
BROMOCHLOROMETHANE	74-97-5	90 H	90 H	9,000 H	9,000 H	90 H	90 H
BROMODICHLOROMETHANE (THM)	75-27-4	80 M	80 M	8,000 M	8,000 M	80 M	80 M
BROMOMETHANE	74-83-9	10 H	10 H	1,000 H	1,000 H	1,000 H	1,000 H
BROMOXYNIL	1689-84-5	<u>[830]</u> <u>6.3</u> G	<u>[2,300]</u> <u>26</u> G	<u>[83,000]</u> <u>630</u> G	<u>[130,000]</u> <u>2,600</u> <u>] S</u> <u>G</u>	<u>[830]</u> <u>6.3</u> G	<u>[2,300]</u> <u>26</u> G
BROMOXYNIL OCTANOATE	1689-99-2	<u>[80]</u> <u>6.3</u> <u>] S</u> <u>G</u>	<u>[80]</u> <u>26</u> <u>] S</u> <u>G</u>	80 S	80 S	80 S	80 S
BUTADIENE, 1,3-	106-99-0	<u>[0.21]</u> <u>1.1</u> G	<u>[1]</u> <u>4.5</u> G	<u>[21]</u> <u>110</u> G	<u>[100]</u> <u>450</u> G	<u>[21]</u> <u>110</u> G	<u>[100]</u> <u>450</u> G
BUTYL ALCOHOL, N-	71-36-3	<u>[4,200]</u> <u>3,500</u> G	<u>[12,000]</u> <u>9,700</u> G	<u>[420,000]</u> <u>350,000</u> G	<u>[1,200,000]</u> <u>970,000</u> G	<u>[42,000]</u> <u>35,000</u> G	<u>[120,000]</u> <u>97,000</u> G
BUTYLATE	2008-41-5	400 H	400 H	40,000 H	40,000 H	400 H	400 H
BUTYLBENZENE, N-	104-51-8	<u>[2,100]</u> <u>1,700</u> G	<u>[5,800]</u> <u>4,900</u> G	15,000 S	15,000 S	<u>[2,100]</u> <u>1,700</u> G	<u>[5,800]</u> <u>4,900</u> G
BUTYLBENZENE, SEC-	135-98-8	<u>[4,200]</u> <u>3,500</u> G	<u>[12,000]</u> <u>9,700</u> G	17,000 S	17,000 S	<u>[4,200]</u> <u>3,500</u> G	<u>[12,000]</u> <u>9,700</u> G
BUTYLBENZENE, TERT-	98-06-6	<u>[4,200]</u> <u>3,500</u> G	<u>[12,000]</u> <u>9,700</u> G	30,000 S	30,000 S	<u>[4,200]</u> <u>3,500</u> G	<u>[12,000]</u> <u>9,700</u> G
BUTYLBENZYL PHTHALATE	85-68-7	<u>[380]</u> <u>340</u> G	<u>[1,800]</u> <u>1,400</u> G	2,700 S	2,700 S	2,700 S	2,700 S
CAPTAN	133-06-2	<u>[320]</u> <u>280</u> G	500 S	500 S	500 S	500 S	500 S
CARBARYL	63-25-2	<u>[4,200]</u> <u>3,500</u> G	<u>[12,000]</u> <u>9,700</u> G	120,000 S	120,000 S	120,000 S	120,000 S
CARBAZOLE	86-74-8	<u>[37]</u> <u>33</u> G	<u>[170]</u> <u>140</u> G	1,200 S	1,200 S	<u>[37]</u> <u>33</u> <u>] S</u> <u>G</u>	<u>[170]</u> <u>140</u> <u>] S</u> <u>G</u>
CARBOFURAN	1563-66-2	40 M	40 M	4,000 M	4,000 M	40 M	40 M
CARBON DISULFIDE	75-15-0	1,500 N	6,200 N	150,000 N	620,000 N	1,500 N	6,200 N

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		R	NR	R	NR	R	NR
CARBON TETRACHLORIDE	56-23-5	5 M	5 M	500 M	500 M	50 M	50 M
CARBOXIN	5234-68-4	700 H	700 H	70,000 H	70,000 H	700 H	700 H
CHLORAMBEN	133-90-4	100 H	100 H	10,000 H	10,000 H	100 H	100 H
CHLORDANE	57-74-9	2 M	2 M	56 S	56 S	56 S	56 S
CHLORO-1,1-DIFLUOROETHANE, 1-	75-68-3	110,000 N	440,000 N	1,400,000 S	1,400,000 S	110,000 N	440,000 N
CHLORO-1-PROPENE, 3- (ALLYL CHLORIDE)	107-05-1	2.1 N	8.8 N	210 N	880 N	210 N	880 N
CHLOROACETALDEHYDE	107-20-0	2.4 G	[11] 10 G	240 G	[1,100] 1,000 G	2.4 G	[11] 10 G
[CHLOROACETOPHENONE, 2-]	[532-27-4]	[1.3] [G]]	[3.5] [G]]	[130] [G]]	[350] [G]]	[1,300] [G]]	[3,500] [G]]
CHLOROANILINE, P-	106-47-8	[3.7] 3.3 G	[17] 14 G	[370] 330 G	[1,700] 1,400 G	[3.7] 3.3 G	[17] 14 G
CHLOROBENZENE	108-90-7	100 M	100 M	10,000 M	10,000 M	10,000 M	10,000 M
CHLOROBENZILATE	510-15-6	[6.6] 5.9 G	[31] 25 G	[660] 590 G	[3,100] 2,500 G	[6,600] 5,900 G	13,000 S
CHLOROBUTANE, 1-	109-69-3	[1,700] 1,400 G	[4,700] 3,900 G	[170,000] 140,000 G	[470,000] 390,000 G	[1,700] 1,400 G	[4,700] 3,900 G
CHLORODIBROMOMETHANE (THM)	124-48-1	80 M	80 M	8,000 M	8,000 M	8,000 M	8,000 M
CHLORODIFLUOROMETHANE	75-45-6	110,000 N	440,000 N	2,900,000 S	2,900,000 S	110,000 N	440,000 N
CHLOROETHANE	75-00-3	[250] [G] 21,000] N	[1,200] [G] 88,000] N	[25,000] [G] 2,100,000] N	[20,000] [G] 5,700,000] S	[25,000] [G] 2,100,000] N	[120,000] [G] 5,700,000] S
CHLOROFORM (THM)	67-66-3	80 M	80 M	8,000 M	8,000 M	800 M	800 M
CHLORONAPHTHALENE, 2-	91-58-7	[3,300] 2,800 G	[9,300] 7,800 G	12,000 S	12,000 S	[3,300] 2,800 G	[9,300] 7,800 G
CHLORONITROBENZENE, P-	100-00-5	[42] 4.2 [G]] N	[120] 18 [G]] N	[4,200] [G] 420] N	[12,000] [G] 1,800] N	[42] 4.2 [G]] N	[120] 18 [G]] N
CHLOROPHENOL, 2-	95-57-8	40 H	40 H	4,000 H	4,000 H	40 H	40 H
CHLOROPRENE	126-99-8	0.16 N	0.83 N	16 N	83 N	16 N	83 N
CHLOROPROPANE, 2-	75-29-6	210 N	880 N	21,000 N	88,000 N	210 N	880 N

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CHLOROTHALONIL	1897-45-6	[240] <u>38</u> G	[600] <u>160</u> [S]] G	600 S	600 S	[240] <u>38</u> G	[600] <u>160</u> [S]] G
CHLOROTOLUENE, O-	95-49-8	100 H	100 H	10,000 H	10,000 H	100 H	100 H
CHLOROTOLUENE, P-	106-43-4	100 H	100 H	10,000 H	10,000 H	100 H	100 H
CHLORPYRIFOS	2921-88-2	2 H	2 H	200 H	200 H	2 H	2 H
CHLORSULFURON	64902-72-3	[2,100] G <u>690</u>	[5,800] G <u>1,900</u>	[190,000] [S] <u>69,000</u>] G	190,000 [S]] G	[2,100] G <u>690</u>	[5,800] G <u>1,900</u>
CHLORTHAL-DIMETHYL (DACTHAL) (DCPA)	1861-32-1	70 H	70 H	500 S	500 S	500 S	500 S
CHRYSENE	218-01-9	[1.9] <u>1.8</u> G	1.9 S	1.9 S	1.9 S	1.9 S	1.9 S
CRESOL(S)	1319-77-3	1,300 N	5,300 N	130,000 N	530,000 N	130,000 N	530,000 N
CRESOL, DINITRO-O-,4,6-	534-52-1	[3.3] <u>2.8</u> G	[9.3] <u>7.8</u> G	[330] <u>280</u> G	[930] <u>780</u> G	[3,300] G <u>280</u>	[9,300] G <u>780</u>
CRESOL, O- (METHYLPHENOL, 2-)	95-48-7	[2,100] G <u>1,700</u>	[5,800] G <u>4,900</u>	[210,000] G <u>170,000</u>	[580,000] G <u>490,000</u>	[210,000] G <u>170,000</u>	[580,000] G <u>490,000</u>
CRESOL, M (METHYLPHENOL, 3-)	108-39-4	[2,100] G <u>1,700</u>	[5,800] G <u>4,900</u>	[210,000] G <u>170,000</u>	[580,000] G <u>490,000</u>	[2,100,000] G] <u>1,700,000</u>	2,500,000 S
CRESOL, P (METHYLPHENOL, 4-)	106-44-5	[210] <u>170</u> G	[580] <u>490</u> G	[21,000] G <u>17,000</u>	[58,000] G <u>49,000</u>	[210,000] G <u>170,000</u>	[580,000] G <u>490,000</u>
CRESOL, P-CHLORO-M-	59-50-7	[4,200] G <u>3,500</u>	[12,000] G <u>9,700</u>	[420,000] G <u>350,000</u>	[1,200,000] G] <u>970,000</u>	[4,200] G <u>3,500</u>	[12,000] G <u>9,700</u>
CROTONALDEHYDE	4170-30-3	[0.38] <u>0.34</u> G	[1.8] <u>1.4</u> G	[38] <u>34</u> G	[180] <u>140</u> G	[38] <u>34</u> G	[180] <u>140</u> G
CROTONALDEHYDE, TRANS-	123-73-9	[0.38] <u>0.34</u> G	[1.8] <u>1.4</u> G	[38] <u>34</u> G	[180] <u>140</u> G	[38] <u>34</u> G	[180] <u>140</u> G
CUMENE (ISOPROPYL BENZENE)	98-82-8	840 N	3,500 N	50,000 S	50,000 S	50,000 S	50,000 S
CYANAZINE	21725-46-2	1 H	1 H	100 H	100 H	1 H	1 H
CYCLOHEXANE	110-82-7	13,000 N	53,000 N	55,000 S	55,000 S	13,000 N	53,000 N
CYCLOHEXANONE	108-94-1	1,500 N	6,200 N	150,000 N	620,000 N	1,500 N	6,200 N
CYFLUTHRIN	68359-37-5	1 S	1 S	1 S	1 S	1 S	1 S
CYROMAZINE	66215-27-8	[310] G <u>17,000</u>	[880] G <u>49,000</u>	[31,000] G <u>1,700,000</u>	[88,000] G <u>4,900,000</u>	[310] G <u>17,000</u>	[880] G <u>49,000</u>
DDD, 4,4'-	72-54-8	[3] <u>2.7</u> G	[14] <u>11</u> G	160 S	160 S	160 S	160 S
DDE, 4,4'-	72-55-9	[2.1] <u>1.9</u> G	[10] <u>8</u> G	40 S	40 S	40 S	40 S
DDT, 4,4'-	50-29-3	[2.1] <u>1.9</u> G	5.5 S	5.5 S	5.5 S	5.5 S	5.5 S

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Regulated Substance	CASRN	Used Aquifers				Nonuse Aquifers	
		TDS ≤ 2500 mg/L		TDS > 2500 mg/L		R	NR
		R	NR	R	NR		
DI(2-ETHYLHEXYL)ADIPATE	103-23-1	400 M	400 M	40,000 M	40,000 M	200,000 S	200,000 S
DIALATE	2303-16-4	[12] <u>11</u> G	[56] <u>45</u> G	[1,200] <u>1,100</u> G	[5,600] <u>4,500</u> G	[12,000] <u>11,000</u> G	40,000 S
DIAMINOTOLUENE, 2,4-	95-80-7	[0.18] <u>0.16</u> G	[0.85] <u>0.68</u> G	[18] <u>16</u> G	[85] <u>68</u> G	[180] <u>160</u> G	[850] <u>680</u> G
DIAZINON	333-41-5	1 H	1 H	100 H	100 H	1 H	1 H
DIBENZO[A,H]ANTHRACENE	53-70-3	[0.055] <u>0.052</u> G	0.6 S	0.6 S	0.6 S	0.6 S	0.6 S
DIBENZOFURAN	132-64-9	[42] <u>35</u> G	[120] <u>97</u> G	[4,200] <u>3,500</u> G	4,500 S	[4,500] <u>3,500</u> <u>S</u> <u>G</u>	4,500 S
DIBROMO-3-CHLOROPROPANE, 1,2-	96-12-8	0.2 M	0.2 M	20 M	20 M	20 M	20 M
DIBROMOBENZENE, 1,4-	106-37-6	[420] <u>350</u> G	[1,200] <u>970</u> G	20,000 S	20,000 S	[420] <u>350</u> G	[1,200] <u>970</u> G
DIBROMOETHANE, 1,2- (ETHYLENE DIBROMIDE)	106-93-4	0.05 M	0.05 M	5 M	5 M	5 M	5 M
DIBROMOMETHANE	74-95-3	8.4 N	35 N	840 N	3,500 N	840 N	3,500 N
DIBUTYL PHTHALATE, N-	84-74-2	[4,200] <u>3,500</u> G	[12,000] <u>9,700</u> G	[400,000] <u>350,000</u> <u>S</u> <u>G</u>	400,000 S	400,000 S	400,000 S
DICAMBA	1918-00-9	4,000 H	4,000 H	400,000 H	400,000 H	4,000 H	4,000 H
DICHLOROACETIC ACID (HAA)	7[6]9-43-6	60 M	60 M	6,000 M	6,000 M	60 M	60 M
DICHLORO-2-BUTENE, 1,4-	764-41-0	0.012 N	0.06 N	1.2 N	6 N	0.012 N	0.06 N
DICHLORO-2-BUTENE, TRANS-1,4-	110-57-6	0.012 N	0.06 N	1.2 N	6 N	0.012 N	0.06 N
DICHLOROBENZENE, 1,2-	95-50-1	600 M	600 M	60,000 M	60,000 M	60,000 M	60,000 M
DICHLOROBENZENE, 1,3-	541-73-1	600 H	600 H	60,000 H	60,000 H	60,000 H	60,000 H
DICHLOROBENZENE, P-	106-46-7	75 M	75 M	7,500 M	7,500 M	7,500 M	7,500 M
DICHLOROBENZIDINE, 3,3'-	91-94-1	[1.6] <u>1.4</u> G	[7.6] <u>6</u> G	[160] <u>140</u> G	[760] <u>600</u> G	[1,600] <u>1,400</u> G	3,100 S
DICHLORODIFLUOROMETHANE (FREON 12)	75-71-8	1,000 H	1,000 H	100,000 H	100,000 H	100,000 H	100,000 H
DICHLOROETHANE, 1,1-	75-34-3	31 N	160 N	3,100 N	16,000 N	310 N	1,600 N
DICHLOROETHANE, 1,2-	107-06-2	5 M	5 M	500 M	500 M	50 M	50 M
DICHLOROETHYLENE, 1,1-	75-35-4	7 M	7 M	700 M	700 M	70 M	70 M
DICHLOROETHYLENE, CIS-1,2-	156-59-2	70 M	70 M	7,000 M	7,000 M	700 M	700 M
DICHLOROETHYLENE, TRANS-1,2-	156-60-5	100 M	100 M	10,000 M	10,000 M	1,000 M	1,000 M
DICHLOROMETHANE (METHYLENE CHLORIDE)	75-09-2	5 M	5 M	500 M	500 M	500 M	500 M

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Regulated Substance	CASRN	Used Aquifers				Nonuse Aquifers	
		TDS ≤ 2500 mg/L		TDS > 2500 mg/L			
		R	NR	R	NR	R	NR
DICHLOROPHENOL, 2,4-	120-83-2	20 H	20 H	2,000 H	2,000 H	20,000 H	20,000 H
DICHLOROPHENOXYACETIC ACID, 2,4- (2,4-D)	94-75-7	70 M	70 M	7,000 M	7,000 M	70,000 M	70,000 M
DICHLOROPROPANE, 1,2-	78-87-5	5 M	5 M	500 M	500 M	50 M	50 M
DICHLOROPROPENE, 1,3-	542-75-6	[7.3] <u>6.5</u> G	[34] <u>27</u> G	[730] <u>650</u> G	[3,400] <u>2,700</u> G	[730] <u>650</u> G	[3,400] <u>2,700</u> G
DICHLOROPROPIONIC ACID, 2,2- (DALAPON)	75-99-0	200 M	200 M	20,000 M	20,000 M	20,000 M	20,000 M
DICHLORVOS	62-73-7	[2.5] <u>2.2</u> G	[12] <u>9.4</u> G	[250] <u>220</u> G	[1,200] <u>940</u> G	[2.5] <u>2.2</u> G	[12] <u>9.4</u> G
DICYCLOPENTADIENE	77-73-6	0.63 N	2.6 N	63 N	260 N	0.63 N	2.6 N
DIELDRIN	60-57-1	[0.046] <u>0.041</u> G	[0.21] <u>0.17</u> G	[4.6] <u>4.1</u> G	[21] <u>17</u> G	[46] <u>41</u> G	170 <u>S</u>
DIETHYL PHTHALATE	84-66-2	[33,000] <u>28,000</u> G	[93,000] <u>78,000</u> G	1,100,000 S	1,100,000 S	1,100,000 S	1,100,000 S
DIFLUBENZURON	35367-38-5	200 S	200 S	200 S	200 S	200 S	200 S
DIISOPROPYL METHYLPHOSPHONATE	1445-75-6	600 H	600 H	60,000 H	60,000 H	600 H	600 H
DIMETHOATE	60-51-5	[8.3] <u>76</u> G	[23] <u>210</u> G	[830] <u>7,600</u> G	[2,300] <u>21,000</u> G	[8,300] <u>76,000</u> G	[23,000] <u>210,000</u> G
DIMETHOXYBENZIDINE, 3,3-	119-90-4	[0.46] <u>0.41</u> G	[2] <u>1.7</u> G	[46] <u>41</u> G	[210] <u>170</u> G	[460] <u>410</u> G	[2,100] <u>1,700</u> G
DIMETHRIN	70-38-2	36 S	36 S	36 S	36 S	36 S	36 S
DIMETHYLAMINOAZOBENZENE, P-	60-11-7	[0.16] <u>0.14</u> G	[0.74] <u>0.59</u> G	[16] <u>14</u> G	[74] <u>59</u> G	[160] <u>140</u> G	[740] <u>590</u> G
DIMETHYLANILINE, N,N-	121-69-7	[83] <u>24</u> G	[230] <u>100</u> G	[8,300] <u>2,400</u> G	[23,000] <u>10,000</u> G	[8,300] <u>2,400</u> G	[23,000] <u>10,000</u> G
DIMETHYLBENZIDINE, 3,3-	119-93-7	[0.066] <u>0.059</u> G	[0.31] <u>0.25</u> G	[6.6] <u>5.9</u> G	[31] <u>25</u> G	[66] <u>59</u> G	[310] <u>250</u> G
DIMETHYL METHYLPHOSPHONATE	756-79-6	100 H	100 H	10,000 H	10,000 H	100 H	100 H
DIMETHYLPHENOL, 2,4-	105-67-9	[830] <u>690</u> G	[2,300] <u>1,900</u> G	[83,000] <u>69,000</u> G	[230,000] <u>190,000</u> G	[830,000] <u>690,000</u> G	[2,300,000] <u>1,900,000</u> G
DINITROBENZENE, 1,3-	99-65-0	1 H	1 H	100 H	100 H	1,000 H	1,000 H
DINITROPHENOL, 2,4-	51-28-5	[83] <u>69</u> G	[230] <u>190</u> G	[8,300] <u>6,900</u> G	[23,000] <u>19,000</u> G	[83,000] <u>69,000</u> G	[230,000] <u>190,000</u> G
DINITROTOLUENE, 2,4-	121-14-2	[2.4] <u>2.1</u> G	[11] <u>8.8</u> G	[240] <u>210</u> G	[1,100] <u>880</u> G	[2,400] <u>2,100</u> G	[11,000] <u>8,800</u> G

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Regulated Substance	CASRN	Used Aquifers				Nonuse Aquifers	
		TDS ≤ 2500 mg/L		TDS > 2500 mg/L			
		R	NR	R	NR	R	NR
DINITROTOLUENE, 2,6- (2,6-DNT)	606-20-2	[0.49] <u>0.43</u> G	[2] <u>1.8</u> G	[49] <u>43</u> G	[230] <u>180</u> G	[490] <u>430</u> G	[2,300] <u>1,800</u> G
DINOSEB	88-85-7	7 M	7 M	700 M	700 M	7,000 M	7,000 M
DIOXANE, 1,4-	123-91-1	[6.4] <u>6.5</u> [N]] G	[32] <u>27</u> [N]] G	[640] <u>650</u> [N]] G	[3,200] <u>2,700</u> [N]] G	[64] <u>65</u> [N]] G	[320] <u>270</u> [N]] G
DIPHENAMID	957-51-7	200 H	200 H	20,000 H	20,000 H	200 H	200 H
DIPHENYLAMINE	122-39-4	[1,000] G <u>3,500</u>	[2,900] G <u>9,700</u>	[100,000] [G] <u>300,000</u> S	[290,000] [G] <u>300,000</u> S	300,000 S	300,000 S
DIPHENYLHYDRAZINE, 1,2-	122-66-7	[0.91] <u>0.22</u> [G]] N	[4.3] <u>1.1</u> [G]] N	[91] <u>22</u> [G]] N	[250] <u>110</u> [S]] N	[250] <u>22</u> [S]] N	[250] <u>110</u> [S]] N
DIQUAT	85-00-7	20 M	20 M	2,000 M	2,000 M	20 M	20 M
DISULFOTON	298-04-4	0.7 H	0.7 H	70 H	70 H	700 H	700 H
DITHIANE, 1,4-	505-29-3	80 H	80 H	8,000 H	8,000 H	80 H	80 H
DIURON	330-54-1	[83] <u>69</u> G	[230] <u>190</u> G	[8,300] G <u>6,900</u>	[23,000] G <u>19,000</u>	[83] <u>69</u> G	[230] <u>190</u> G
ENDOSULFAN	115-29-7	[250] <u>210</u> G	480 S	480 S	480 S	480 S	480 S
ENDOSULFAN I (APLHA)	959-98-8	[250] <u>210</u> G	500 S	500 S	500 S	[250] <u>210</u> G	500 S
ENDOSULFAN II (BETA)	33213-65-9	[250] <u>210</u> G	450 S	450 S	450 S	[250] <u>210</u> G	450 S
ENDOSULFAN SULFATE	1031-07-8	120 S	120 S	120 S	120 S	120 S	120 S
ENDOTHALL	145-73-3	100 M	100 M	10,000 M	10,000 M	100 M	100 M
ENDRIN	72-20-8	2 M	2 M	200 M	200 M	2 M	2 M
EPICHLOROHYDRIN	106-89-8	2.1 N	8.8 N	210 N	880 N	210 N	880 N
ETHEPHON	16672-87-0	[210] <u>170</u> G	[580] <u>490</u> G	[21,000] G <u>17,000</u>	[58,000] G <u>49,000</u>	[210] <u>170</u> G	[580] <u>490</u> G
ETHION	563-12-2	[21] <u>17</u> G	[58] <u>49</u> G	850 S	850 S	[21] <u>17</u> G	[58] <u>49</u> G
ETHOXYETHANOL, 2- (EGEE)	110-80-5	420 N	1,800 N	42,000 N	180,000 N	42,000 N	180,000 N
ETHYL ACETATE	141-78-6	150 [G]] N	620 [G]] N	[150,000] [G] <u>15,000</u>] N	62,000 [G]] N	[150,000] [<u>15,000</u> G]] N	62,000 [G]] N

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		R	NR	R	NR		
ETHYL ACRYLATE	140-88-5	[15] <u>14</u> G	[70] <u>57</u> [N]] G	[1,500] G <u>1,400</u>	[7,000] [N] <u>5,700</u>] G	[1,500] G <u>1,400</u>	[7,000] [N] <u>5,700</u>] G
ETHYL BENZENE	100-41-4	700 M	700 M	70,000 M	70,000 M	70,000 M	70,000 M
ETHYL DIPROPYLTHIOCARBAMATE, S- (EPTC)	759-94-4	[1,000] G <u>1,700</u>	[2,900] G <u>4,900</u>	[100,000] G <u>170,000</u>	[290,000] [G] <u>370,000</u>] S	[1,000] G <u>1,700</u>	[2,900] G <u>4,900</u>
ETHYL ETHER	60-29-7	[8,300] G <u>6,900</u>	[23,000] G <u>19,000</u>	[830,000] G <u>690,000</u>	[2,300,000] G <u>1,900,000</u>]	[8,300] G <u>6,900</u>	[23,000] G <u>19,000</u>
ETHYL METHACRYLATE	97-63-2	630 N	2,600 N	63,000 N	260,000 N	630 N	2,600 N
ETHYLENE CHLORHYDRIN	107-07-3	[830] <u>690</u> G	[2,300] G <u>1,900</u>	[83,000] G <u>69,000</u>	[230,000] G <u>190,000</u>	[830] <u>690</u> G	[2,300] G <u>1,900</u>
ETHYLENE GLYCOL	107-21-1	14,000 H	14,000 H	1,400,000 H	1,400,000 H	1,400,000 H	1,400,000 H
ETHYLENE THIOUREA (ETU)	96-45-7	[3.3] <u>2.8</u> G	[9.3] <u>7.8</u> G	[330] <u>280</u> G	[930] <u>780</u> G	[3,300] G <u>2,800</u>	[9,300] G <u>7,800</u>
ETHYLP-NITROPHENYL PHENYLPHOSPHOROTHIOATE	2104-64-5	[0.42] <u>0.35</u> G	[1] <u>0.97</u> G	[42] <u>35</u> G	[120] <u>97</u> G	[0.42] <u>0.35</u> G	[1.2] <u>0.97</u> G
FENAMIPHOS	22224-92-6	0.7 H	0.7 H	70 H	70 H	0.7 H	0.7 H
FENVALERATE (PYDRIN)	51630-58-1	85 S	85 S	85 S	85 S	85 S	85 S
FLUOMETURON	2164-17-2	90 H	90 H	9,000 H	9,000 H	90 H	90 H
FLUORANTHENE	206-44-0	260 S	260 S	260 S	260 S	260 S	260 S
FLUORENE	86-73-7	[1,700] G <u>1,400</u>	1,900 S	1,900 S	1,900 S	1,900 S	1,900 S
FLUOROTRICHLOROMETHANE (FREON 11)	75-69-4	2,000 H	2,000 H	200,000 H	200,000 H	200,000 H	200,000 H
FONOFOS	944-22-9	10 H	10 H	1,000 H	1,000 H	10 H	10 H
FORMALDEHYDE	50-00-0	1,000 H	1,000 H	100,000 H	100,000 H	100,000 H	100,000 H
FORMIC ACID	64-18-6	0.63 N	2.6 N	63 N	260 N	6.3 N	26 N
FOSETYL-AL	39148-24-8	[130,000] G <u>87,000</u>	[350,000] G <u>240,000</u>	[13,000,000] G <u>8,700,000</u>	[35,000,000] G <u>24,000,000</u>] 0	[130,000] G <u>87,000</u>	[350,000] G <u>240,000</u>
FURAN	110-00-9	[42] <u>35</u> G	[120] <u>97</u> G	[4,200] G <u>3,500</u>	[12,000] G <u>9,700</u>	[4,200] G <u>3,500</u>	[12,000] G <u>9,700</u>

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		R	NR	R	NR	R	NR
FURFURAL	98-01-1	[110] <u>19</u> [N]] <u>G</u>	[350] <u>78</u> G	[11,000] [N] <u>1,900</u>] <u>G</u>	[35,000] G <u>7,800</u>	[110] <u>19</u> [N]] <u>G</u>	[350] <u>78</u> G
GLYPHOSATE	1071-83-6	700 M	700 M	70,000 M	70,000 M	700 M	700 M
HEPTACHLOR	76-44-8	0.4 M	0.4 M	40 M	40 M	180 S	180 S
HEPTACHLOR EPOXIDE	1024-57-3	0.2 M	0.2 M	20 M	20 M	200 M	200 M
HEXACHLOROBENZENE	118-74-1	1 M	1 M	6 S	6 S	6 S	6 S
HEXACHLOROBUTADIENE	87-68-3	[9.4] <u>8.4</u> G	[44] <u>35</u> G	[940] <u>840</u> G	2,900 S	2,900 S	2,900 S
HEXACHLOROCYCLOPENTADIENE	77-47-4	50 M	50 M	1,800 S	1,800 S	1,800 S	1,800 S
HEXACHLOROETHANE	67-72-1	1 H	1 H	100 H	100 H	100 H	100 H
HEXANE	110-54-3	1,500 N	[6,200] [N] <u>5,800</u>] <u>G</u>	9,500 S	9,500 S	1,500 N	[6,200] [N] <u>5,800</u>] <u>G</u>
HEXAZINONE	51235-04-2	400 H	400 H	40,000 H	40,000 H	400 H	400 H
HEXYTHIAZOX (SAVEY)	78587-05-0	500 S	500 S	500 S	500 S	500 S	500 S
HMX	2691-41-0	400 H	400 H	5,000 S	5,000 S	400 H	400 H
HYDRAZINE/HYDRAZINE SULFATE	302-01-2	0.01 N	0.051 N	1 N	5.1 N	0.1 N	0.51 N
HYDROQUINONE	123-31-9	[12] <u>11</u> G	[57] <u>45</u> G	[1,200] G <u>1,100</u>	[5,700] G <u>4,500</u>	[12,000] G <u>11,000</u>	[57,000] G <u>45,000</u>
INDENO[1,2,3-CD]PYRENE	193-39-5	[0.19] <u>0.18</u> G	[2.8] <u>2.3</u> G	[19] <u>18</u> G	62 S	62 S	62 S
IPRODIONE	36734-19-7	[1,700] <u>15</u> G	[4,700] <u>62</u> G	[13,000] [S] <u>1,500</u>] <u>G</u>	[13,000] [S] <u>6,200</u>] <u>G</u>	[1,700] <u>15</u> G	[4,700] <u>62</u> G
ISOBUTYL ALCOHOL	78-83-1	[13,000] G <u>10,000</u>	[35,000] G <u>29,000</u>	[1,300,000] G] <u>1,000,000</u>	[3,500,000] G] <u>2,900,000</u>	[1,300,000] G] <u>1,000,000</u>	[3,500,000] G] <u>2,900,000</u>
ISOPHORONE	78-59-1	100 H	100 H	10,000 H	10,000 H	100,000 H	100,000 H
ISOPROPYL METHYLPHOSPHONATE	1832-54-8	700 H	700 H	70,000 H	70,000 H	700 H	700 H
KEPONE	143-50-0	[0.073] G <u>0.065</u>	[0.34] <u>0.27</u> G	[7.3] <u>6.5</u> G	[34] <u>27</u> G	[73] <u>65</u> G	[340] <u>270</u> G
MALATHION	121-75-5	500 H	500 H	50,000 H	50,000 H	140,000 S	140,000 S
MALEIC HYDRAZIDE	123-33-1	4,000 H	4,000 H	400,000 H	400,000 H	4,000 H	4,000 H
MANEB	12427-38-2	[210] <u>11</u> G	[580] <u>45</u> G	[21,000] G <u>1,100</u>	[23,000] [S] <u>4,500</u>] <u>G</u>	[210] <u>11</u> G	[580] <u>45</u> G

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Appendix A

Table 1 – Medium-Specific Concentrations (MSCs) for Organic Regulated Substances in Groundwater

Regulated Substance	CASRN	Used Aquifers				Nonuse Aquifers	
		TDS ≤ 2500 mg/L		TDS > 2500 mg/L		R	NR
		R	NR	R	NR		
MERPHOS OXIDE	78-48-8	[1.3] <u>35</u> G	[3.5] <u>97</u> G	[130] <u>2,300</u> [G]] S	[350] <u>2,300</u> [G]] S	[1.3] <u>35</u> G	[3.5] <u>97</u> G
METHACRYLONITRILE	126-98-7	[4.2] <u>3.5</u> G	[12] <u>9.7</u> G	[420] <u>350</u> G	[1,200] <u>970</u> G	[4.2] <u>3.5</u> G	[12] <u>9.7</u> G
METHAMIDOPHOS	10265-92-6	[2.1] <u>1.7</u> G	[5.8] <u>4.9</u> G	[210] <u>170</u> G	[580] <u>490</u> G	[2.1] <u>1.7</u> G	[5.8] <u>4.9</u> G
METHANOL	67-56-1	[8,400] <u>42,000</u> N	[35,000] <u>180,000</u> N	[840,000] <u>4,200,000</u> N	[3,500,000] <u>18,000,000</u> N	[840,000] <u>4,200,000</u> N	[3,500,000] <u>18,000,000</u> N
METHOMYL	16752-77-5	200 H	200 H	20,000 H	20,000 H	200 H	200 H
METHOXYCHLOR	72-43-5	40 M	40 M	45 S	45 S	45 S	45 S
METHOXYETHANOL, 2-	109-86-4	42 N	180 N	4,200 N	18,000 N	[42] <u>420</u> N	[180] <u>1,800</u> N
METHYL ACETATE	79-20-9	[42,000] <u>35,000</u> G	[120,000] <u>97,000</u> G	[4,200,000] <u>3,500,000</u> G	[12,000,000] <u>9,700,000</u> G	[42,000] <u>35,000</u> G	[120,000] <u>97,000</u> G
METHYL ACRYLATE	96-33-3	42 N	180 N	4,200 N	18,000 N	4,200 N	18,000 N
METHYL CHLORIDE	74-87-3	30 H	30 H	3,000 H	3,000 H	3,000 H	3,000 H
METHYL ETHYL KETONE	78-93-3	4,000 H	4,000 H	400,000 H	400,000 H	400,000 H	400,000 H
METHYL HYDRAZINE	60-34-4	0.042 N	0.18 N	4.2 N	18 N	0.42 N	1.8 N
METHYL ISOBUTYL KETONE	108-10-1	[3,300] <u>2,800</u> G	[9,300] <u>7,800</u> G	[330,000] <u>280,000</u> G	[930,000] <u>780,000</u> G	[330,000] <u>280,000</u> G	[930,000] <u>780,000</u> G
METHYL ISOCYANATE	624-83-9	2.1 N	8.8 N	210 N	880 N	2.1 N	8.8 N
METHYL N-BUTYL KETONE	591-78-6	63 N	260 N	6,300 N	26,000 N	63 N	260 N
METHYL METHACRYLATE	80-62-6	1,500 N	6,200 N	150,000 N	620,000 N	150,000 N	620,000 N
METHYL METHANESULFONATE	66-27-3	[7.4] <u>6.6</u> G	[34] <u>27</u> G	[740] <u>660</u> G	[3,400] <u>2,700</u> G	[7.4] <u>6.6</u> G	[34] <u>27</u> G
METHYL PARATHION	298-00-0	1 H	1 H	100 H	100 H	1,000 H	1,000 H
METHYL STYRENE (MIXED ISOMERS)	25013-15-4	84 N	350 N	8,400 N	35,000 N	84 N	350 N
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	20	20	2,000	2,000	200	200
METHYLCHLOROPHENOXYACETIC ACID (MCPA)	94-74-6	30 H	30 H	3,000 H	3,000 H	30,000 H	30,000 H
METHYLENE BIS(2-CHLOROANILINE), 4,4'-	101-14-4	[2.3] <u>2.1</u> G	[34] <u>27</u> G	[230] <u>210</u> G	[3,400] <u>2,700</u> G	[2.3] <u>2.1</u> G	[34] <u>27</u> G

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		R	NR	R	NR		
METHYLNAPHTHALENE, 2-	91-57-6	[170] <u>6.3</u> [G]] <u>N</u>	[470] <u>26</u> [G]] <u>N</u>	[17,000] [G] <u>630</u>] <u>N</u>	[25,000] [S] <u>2,600</u>] <u>N</u>	[170] <u>6.3</u> [G]] <u>N</u>	[470] <u>26</u> [G]] <u>N</u>
METHYLSTYRENE, ALPHA	98-83-9	[2,900] G <u>2,400</u>	[8,200] G <u>6,800</u>	[290,000] G <u>240,000</u>	560,000 S	[2,900] G <u>2,400</u>	[8,200] G <u>6,800</u>
METOLACHLOR	51218-45-2	700 H	700 H	70,000 H	70,000 H	700 H	700 H
METRIBUZIN	21087-64-9	70 H	70 H	7,000 H	7,000 H	70 H	70 H
MEVINPHOS	7786-34-7	0.87 <u>G</u>	2.4 <u>G</u>	87 <u>G</u>	240 <u>G</u>	0.87 <u>G</u>	2.4 <u>G</u>
MONOCHLOROACETIC ACID (HAA)	79-11-8	60 H	60 H	6,000 H	6,000 H	60 H	60 H
NAPHTHALENE	91-20-3	100 H	100 H	10,000 H	10,000 H	[30,000] [S] <u>10,000</u>] <u>H</u>	[30,000] [S] <u>10,000</u>] <u>H</u>
NAPHTHYLAMINE, 1-	134-32-7	[0.41] <u>0.36</u> G	[1.9] <u>1.5</u> G	[41] <u>36</u> G	[190] <u>150</u> G	[410] <u>36</u> G	[1,900] G <u>150</u>
NAPHTHYLAMINE, 2-	91-59-8	[0.41] <u>0.36</u> G	[1.9] <u>1.5</u> G	[41] <u>36</u> G	[190] <u>150</u> G	[410] <u>360</u> G	[1,900] G <u>1,500</u>
NAPROPAMIDE	15299-99-7	4,200 G	12,000 G	70,000 S	70,000 S	4,200 G	12,000 G
NITROANILINE, O-	88-74-4	[420] <u>0.11</u> [G]] <u>N</u>	[1,200] [G] <u>0.44</u>] <u>N</u>	[42,000] [G] <u>11</u>] <u>N</u>	[120,000] [G] <u>44</u>] <u>N</u>	[420] <u>0.11</u> [G]] <u>N</u>	[1,200] [G] <u>0.44</u>] <u>N</u>
NITROANILINE, P-	100-01-6	[37] <u>33</u> G	[170] <u>140</u> G	[3,700] G <u>3,300</u>	[17,000] G <u>14,000</u>	[37] <u>33</u> G	[170] <u>140</u> G
NITROBENZENE	98-95-3	[83] <u>1.2</u> [G]] <u>N</u>	[230] <u>6.3</u> [G]] <u>N</u>	[8,300] [G] <u>120</u>] <u>N</u>	[23,000] [G] <u>630</u>] <u>N</u>	[83,000] [G] <u>120</u>] <u>N</u>	[230,000] [G] <u>630</u>] <u>N</u>
NITROGUANIDINE	556-88-7	700 H	700 H	70,000 H	70,000 H	700 H	700 H
NITROPHENOL, 2-	88-75-5	[330] <u>280</u> G	[930] <u>780</u> G	[33,000] G <u>28,000</u>	[93,000] G <u>78,000</u>	[330,000] G <u>28,000</u>	[930,000] G <u>78,000</u>
NITROPHENOL, 4-	100-02-7	60 H	60 H	6,000 H	6,000 H	[60,000] H <u>6,000</u>	[60,000] H <u>6,000</u>
NITROPROPANE, 2-	79-46-9	0.018 N	0.093 N	1.8 N	9.3 N	0.18 N	0.93 N
NITROSODIETHYLAMINE, N-	55-18-5	0.00045 N	0.0058 N	0.045 N	0.58 N	0.0045 N	0.058 N
NITROSODIMETHYLAMINE, N-	62-75-9	0.0014 N	0.018 N	0.14 N	1.8 N	0.014 N	0.18 N

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		TDS ≤ 2500 mg/L		TDS > 2500 mg/L		R	NR
		R	NR	R	NR		
NITROSO-DI-N-BUTYLAMINE, N-	924-16-3	[0.14] <u>0.031</u> G N	[0.63] <u>0.16</u> G N	[14] <u>3.1</u> G N	[63] <u>16</u> G N	[140] <u>3.1</u> G N	[630] <u>16</u> G N
NITROSODI-N-PROPYLAMINE, N-	621-64-7	[0.1] <u>0.025</u> G N	[0.49] <u>0.13</u> G N	[10] <u>2.5</u> G N	[49] <u>13</u> G N	[100] <u>0.25</u> G N	[490] <u>1.3</u> G N
NITROSODIPHENYLAMINE, N-	86-30-6	[150] <u>19</u> G N	[690] <u>96</u> G N	[15,000] <u>1,900</u> G N	[35,000] <u>9,600</u> S N	[35,000] <u>1,900</u> S N	[35,000] <u>9,600</u> S N
NITROSO-N-ETHYLUREA, N-	759-73-9	[0.0084] <u>0.0079</u> G	[0.13] <u>0.1</u> G	[0.84] <u>0.79</u> G	[13] <u>10</u> G	[8.4] <u>7.9</u> G	[130] <u>100</u> G
OCTYL PHTHALATE, DI-N-	117-84-0	[420] <u>350</u> G	[1,200] <u>970</u> G	3,000 S	3,000 S	3,000 S	3,000 S
OXAMYL (VYDATE)	23135-22-0	200 M	200 M	20,000 M	20,000 M	200 M	200 M
PARAQUAT	1910-42-5	30 H	30 H	3,000 H	3,000 H	30 H	30 H
PARATHION	56-38-2	[250] <u>1</u> G	[700] <u>2.9</u> G	[20,000] <u>100</u> S G	[20,000] <u>290</u> S G	[250] <u>1</u> G	[700] <u>2.9</u> G
<u>PCBS, TOTAL (POLYCHLORINATED BIPHENYLS) (AROCLORS)</u>	<u>1336-36-3</u>	<u>0.5</u> M	<u>0.5</u> M	<u>50</u> M	<u>50</u> M	<u>0.5</u> M	<u>0.5</u> M
PCB-1016 (AROCLOR)	12674-11-2	[0.37] <u>2.4</u> G	[1.7] <u>6.8</u> G	[37] <u>240</u> G	[170] <u>250</u> G S	[0.37] <u>2.4</u> G	[1.7] <u>6.8</u> G
PCB-1221 (AROCLOR)	11104-28-2	[0.37] <u>0.33</u> G	[1.7] <u>1.4</u> G	[37] <u>33</u> G	[170] <u>140</u> G	[0.37] <u>0.33</u> G	[1.7] <u>1.4</u> G
PCB-1232 (AROCLOR)	11141-16-5	[0.37] <u>0.33</u> G	[1.7] <u>1.4</u> G	[37] <u>33</u> G	[170] <u>140</u> G	[0.37] <u>0.33</u> G	[1.7] <u>1.4</u> G
PCB-1242 (AROCLOR)	53469-21-9	[0.37] <u>0.33</u> G	[1.7] <u>1.4</u> G	[37] <u>33</u> G	100 S	[0.37] <u>0.33</u> G	[1.7] <u>1.4</u> G
PCB-1248 (AROCLOR)	12672-29-6	[0.37] <u>0.33</u> G	[1.7] <u>1.4</u> G	[37] <u>33</u> G	54 S	[0.37] <u>0.33</u> G	[1.7] <u>1.4</u> G
PCB-1254 (AROCLOR)	11097-69-1	[0.37] <u>0.69</u> G	[1.7] <u>1.9</u> G	[37] <u>57</u> G S	57 S	[0.37] <u>0.69</u> G	[1.7] <u>1.9</u> G
PCB-1260 (AROCLOR)	11096-82-5	[0.37] <u>0.33</u> G	[1.7] <u>1.4</u> G	[37] <u>33</u> G	80 S	[0.37] <u>0.33</u> G	[1.7] <u>1.7</u> G
PEBULATE	1114-71-2	[2,100] <u>1,700</u> G	[5,800] <u>4,900</u> G	92,000 S	92,000 S	[2,100] <u>1,700</u> G	[5,800] <u>4,900</u> G
PENTACHLOROBENZENE	608-93-5	[33] <u>28</u> G	[93] <u>78</u> G	740 S	740 S	740 S	740 S

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		R	NR	R	NR		
PENTACHLOROETHANE	76-01-7	[8.1] <u>7.2</u> G	[38] <u>30</u> G	[810] <u>720</u> G	[3,800] <u>3,000</u> G	[8.1] <u>7.2</u> G	[38] <u>30</u> G
PENTACHLORONITROBENZENE	82-68-8	[2.8] <u>2.5</u> G	[13] <u>10</u> G	[280] <u>250</u> G	440 S	440 S	440 S
PENTACHLOROPHENOL	87-86-5	1 M	1 M	100 M	100 M	1,000 M	1,000 M
<u>PERFLUOROBUTANE SULFONATE (PFBS)</u>	<u>375-73-5</u>	<u>690</u> G	<u>1,900</u> G	<u>69,000</u> G	<u>190,000</u> G	<u>690</u> G	<u>1,900</u> G
<u>PERFLUOROOCTANE SULFONATE (PFOS)</u>	<u>1763-23-1</u>	<u>0.07</u> H	<u>0.07</u> H	<u>7</u> H	<u>7</u> H	<u>0.07</u> H	<u>0.07</u> H
<u>PERFLUOROOCTANOIC ACID (PFOA)</u>	<u>335-67-1</u>	<u>0.07</u> H	<u>0.07</u> H	<u>7</u> H	<u>7</u> H	<u>0.07</u> H	<u>0.07</u> H
PHENACETIN	62-44-2	[330] <u>300</u> G	[1,500] <u>1,200</u> G	[33,000] <u>30,000</u> G	[150,000] <u>120,000</u> G	[330,000] <u>300,000</u> G	760,000 S
PHENANTHRENE	85-01-8	1,100 S	1,100 S	1,100 S	1,100 S	1,100 S	1,100 S
PHENOL	108-95-2	2,000 H	2,000 H	200,000 H	200,000 H	200,000 H	200,000 H
PHENYL MERCAPTAN	108-98-5	[42] <u>35</u> G	[120] <u>97</u> G	[4,200] <u>3,500</u> G	[12,000] <u>9,700</u> G	[42] <u>35</u> G	[120] <u>97</u> G
PHENYLENEDIAMINE, M-	108-45-2	[250] <u>210</u> G	[700] <u>580</u> G	[25,000] <u>21,000</u> G	[70,000] <u>58,000</u> G	[250,000] <u>210,000</u> G	[700,000] <u>580,000</u> G
PHENYLPHENOL, 2-	90-43-7	[380] <u>340</u> G	[1,800] <u>1,400</u> G	[38,000] <u>34,000</u> G	[180,000] <u>140,000</u> G	[380,000] <u>340,000</u> G	700,000 S
PHORATE	298-02-2	[8.3] <u>6.9</u> G	[23] <u>19</u> G	[830] <u>690</u> G	[2,300] <u>1,900</u> G	[8.3] <u>6.9</u> G	[23] <u>19</u> G
PHTHALIC ANHYDRIDE	85-44-9	[83,000] <u>42</u>] N	[230,000] <u>180</u>] N	[6,200,000] <u>4,200</u>] N	[6,200,000] <u>18,000</u>] N	[6,200,000] <u>4,200</u>] N	[6,200,000] <u>18,000</u>] N
PICLORAM	1918-02-1	500 M	500 M	50,000 M	50,000 M	500 M	500 M
<u>[POLYCHLORINATED BIPHENYLS (PCBS)]</u>	<u>[1336-36-3]</u>	<u>[0.5]</u> [M]	<u>[0.5]</u> [M]	<u>[50]</u> [M]	<u>[50]</u> [M]	<u>[0.5]</u> [M]	<u>[0.5]</u> [M]
PROMETON	1610-18-0	400 H	400 H	40,000 H	40,000 H	400 H	400 H
PRONAMIDE	23950-58-5	[3,100] <u>2,600</u> G	[8,800] <u>7,300</u> G	15,000 S	15,000 S	[3,100] <u>2,600</u> G	[8,800] <u>7,300</u> G
<u>PROPACHLOR</u>	<u>1918-16-7</u>	<u>0.1</u> H	<u>0.1</u> H	<u>10</u> H	<u>10</u> H	<u>10</u> H	<u>10</u> H
PROPANIL	709-98-8	[210] <u>170</u> G	[580] <u>490</u> G	[21,000] <u>17,000</u> G	[58,000] <u>49,000</u> G	[210] <u>170</u> G	[580] <u>490</u> G
PROPANOL, 2- (ISOPROPYL ALCOHOL)	67-63-0	420 N	1,800 N	42,000 N	180,000 N	420 N	1,800 N
PROPAZINE	139-40-2	10 H	10 H	1,000 H	1,000 H	10 H	10 H
PROPHAM	122-42-9	100 H	100 H	10,000 H	10,000 H	100 H	100 H

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		R	NR	R	NR		
PROPYLBENZENE, N-	103-65-1	2,100 N	8,800 N	52,000 S	52,000 S	2,100 N	8,800 N
PROPYLENE OXIDE	75-56-9	[3] <u>2.7</u> G	[14] <u>11</u> G	[300] <u>270</u> G	[1,400] <u>1,100</u> G	[3] <u>2.7</u> G	[14] <u>11</u> G
PYRENE	129-00-0	130 S	130 S	130 S	130 S	130 S	130 S
PYRETHRUM	8003-34-7	350 S	350 S	350 S	350 S	350 S	350 S
PYRIDINE	110-86-1	[42] <u>35</u> G	[120] <u>97</u> G	[4,200] <u>3,500</u> G	[12,000] <u>9,700</u> G	[420] <u>350</u> G	[1,200] <u>970</u> G
QUINOLINE	91-22-5	[0.24] <u>0.22</u> G	[1.1] <u>0.91</u> G	[24] <u>22</u> G	[110] <u>91</u> G	[240] <u>220</u> G	[1,100] <u>910</u> G
QUIZALOFOP (ASSURE)	76578-14-8	300 S	300 S	300 S	300 S	300 S	300 S
RDX	121-82-4	2 H	2 H	200 H	200 H	2 H	2 H
RESORCINOL	108-46-3	[83,000] <u>69,000</u> G	[230,000] <u>190,000</u> G	[8,300,000] <u>6,900,000</u> G	[23,000,000] <u>19,000,000</u> G	[83,000] <u>69,000</u> G	[230,000] <u>190,000</u> G
RONNEL	299-84-3	[2,100] <u>1,700</u> G	[5,800] <u>4,900</u> G	40,000 S	40,000 S	[2,100] <u>1,700</u> G	[5,800] <u>4,900</u> G
SIMAZINE	122-34-9	4 M	4 M	400 M	400 M	4 M	4 M
STRYCHNINE	57-24-9	[13] <u>10</u> G	[35] <u>29</u> G	[1,300] <u>1,000</u> G	[3,500] <u>2,900</u> G	[13,000] <u>10,000</u> G	[35,000] <u>29,000</u> G
STYRENE	100-42-5	100 M	100 M	10,000 M	10,000 M	10,000 M	10,000 M
TEBUTHIURON	34014-18-1	500 H	500 H	50,000 H	50,000 H	500 H	500 H
TERBACIL	5902-51-2	90 H	90 H	9,000 H	9,000 H	90 H	90 H
TERBUFOS	13071-79-9	0.4 H	0.4 H	40 H	40 H	0.4 H	0.4 H
TETRACHLOROBENZENE, 1,2,4,5-	95-94-3	[13] <u>10</u> G	[35] <u>29</u> G	580 S	580 S	580 S	580 S
TETRACHLORODIBENZO-P-DIOXIN, 2,3,7,8- (TCDD)	1746-01-6	0.00003 M	0.00003 M	0.003 M	0.003 M	0.019 S	0.019 S
TETRACHLOROETHANE, 1,1,1,2-	630-20-6	70 H	70 H	7,000 H	7,000 H	7,000 H	7,000 H
TETRACHLOROETHANE, 1,1,2,2-	79-34-5	0.84 N	4.3 N	84 N	430 N	84 N	430 N
TETRACHLOROETHYLENE (PCE)	127-18-4	5 M	5 M	500 M	500 M	50 M	50 M
TETRACHLOROPHENOL, 2,3,4,6-	58-90-2	[1,300] <u>1,000</u> G	[3,500] <u>2,900</u> G	[130,000] <u>100,000</u> G	180,000 S	180,000 S	180,000 S
TETRAETHYL LEAD	78-00-2	[0.0042] <u>0.0035</u> G	[0.012] <u>0.0097</u> G	[0.42] <u>0.35</u> G	[1] <u>0.97</u> G	[4.2] <u>3.5</u> G	[12] <u>9.7</u> G
TETRAETHYLDITHIOPYROPHOSPHATE	3689-24-5	[21] <u>17</u> G	[58] <u>49</u> G	[2,100] <u>1,700</u> G	[5,800] <u>4,900</u> G	[21] <u>17</u> G	[58] <u>49</u> G

All concentrations in µg/L
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M = Maximum Contaminant Level
H = Lifetime health advisory level
G = Ingestion
N = Inhalation
S = Aqueous solubility cap

THMs – The values listed for trihalomethanes (THMs) are the total for all THMs combined.

HAAs – The values listed for haloacetic acids (HAAs) are the total for all HAAs combined.

PFOA and PFOS values listed are for individual or total combined.

Appendix A

Table 1 – Medium-Specific Concentrations (MSCs) for Organic Regulated Substances in Groundwater

Regulated Substance	CASRN	Used Aquifers				Nonuse Aquifers	
		TDS ≤ 2500 mg/L		TDS > 2500 mg/L			
		R	NR	R	NR	R	NR
TETRAHYDROFURAN	109-99-9	[26] <u>25</u> N	130 N	[2,600] <u>2,500</u> N	13,000 N	[26] <u>25</u> N	130 N
THIOFANOX	39196-18-4	[13] <u>10</u> G	[35] <u>29</u> G	[1,300] <u>1,000</u> G	[3,500] <u>2,900</u> G	[13] <u>10</u> G	[35] <u>29</u> G
THIRAM	137-26-8	[210] <u>520</u> G	[580] <u>1,500</u> G	[21,000] <u>30,000</u> [G] S	30,000 S	[210] <u>520</u> G	[580] <u>1,500</u> G
TOLUENE	108-88-3	1,000 M	1,000 M	100,000 M	100,000 M	100,000 M	100,000 M
TOLUIDINE, M-	108-44-1	[46] <u>41</u> G	[210] <u>170</u> G	[4,600] <u>4,100</u> G	[21,000] <u>17,000</u> G	[46] <u>41</u> G	[210] <u>170</u> G
TOLUIDINE, O	95-53-4	[46] <u>41</u> G	[210] <u>170</u> G	[4,600] <u>4,100</u> G	[21,000] <u>17,000</u> G	[46,000] <u>41,000</u> G	[210,000] <u>170,000</u> G
TOLUIDINE, P-	106-49-0	[24] <u>22</u> G	[110] <u>91</u> G	[2,400] <u>2,200</u> G	[11,000] <u>9,100</u> G	[24] <u>22</u> G	[110] <u>91</u> G
TOXAPHENE	8001-35-2	3 M	3 M	300 M	300 M	3 M	3 M
TRIALATE	2303-17-5[	[540] <u>0.91</u> G	[1,500] <u>3.8</u> G	[4,000] <u>91</u> [S]] G	[4,000] <u>380</u> [S]] G	[540] <u>0.91</u> G	[1,500] <u>3.8</u> G
TRIBROMOMETHANE (BROMOFORM) (THM)	75-25-2	80 M	80 M	8,000 M	8,000 M	8,000 M	8,000 M
TRICHLORO-1,2,2-TRIFLUOROETHANE, 1,1,2-	76-13-1	[63,000] <u>11,000</u> N	[170,000] <u>44,000</u> [S]] N	170,000 S	170,000 S	170,000 S	170,000 S
TRICHLOROACETIC ACID (HAA)	76-03-9	60 [H]] M	60 [H]] M	6,000 [H]] M	6,000 [H]] M	60 [H]] M	60 [H]] M
TRICHLOROBENZENE, 1,2,4-	120-82-1	70 M	70 M	7,000 M	7,000 M	[44,000] <u>7,000</u> [S]] M	[44,000] <u>7,000</u> [S]] M
TRICHLOROBENZENE, 1,3,5-	108-70-3	40 H	40 H	4,000 H	4,000 H	40 H	40 H
TRICHLOROETHANE, 1,1,1-	71-55-6	200 M	200 M	20,000 M	20,000 M	2,000 M	2,000 M
TRICHLOROETHANE, 1,1,2-	79-00-5	5 M	5 M	500 M	500 M	50 M	50 M
TRICHLOROETHYLENE (TCE)	79-01-6	5 M	5 M	500 M	500 M	50 M	50 M
TRICHLOROPHENOL, 2,4,5-	95-95-4	[4,200] <u>3,500</u> G	[12,000] <u>9,700</u> G	[420,000] <u>350,000</u> G	[1,000,000] <u>970,000</u> [S]] G	1,000,000 S	1,000,000 S

All concentrations in µg/L

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THMs – The values listed for trihalomethanes (THMs) are the total for all THMs combined.

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Appendix A

Table 1 – Medium-Specific Concentrations (MSCs) for Organic Regulated Substances in Groundwater

Regulated Substance	CASRN	Used Aquifers				Nonuse Aquifers	
		TDS ≤ 2500 mg/L		TDS > 2500 mg/L		R	NR
		R	NR	R	NR		
TRICHLOROPHENOL, 2,4,6-	88-06-2	[42] <u>35</u> G	[120] <u>97</u> G	[4,200] <u>3,500</u> G	[12,000] <u>9,700</u> G	[42,000] <u>35,000</u> G	[120,000] <u>97,000</u> G
TRICHLOROPHENOXYACETIC ACID, 2,4,5- (2,4,5-T)	93-76-5	70 H	70 H	7,000 H	7,000 H	70,000 H	70,000 H
TRICHLOROPHENOXYPROPIONIC ACID, 2,4,5- (2,4,5-TP)	93-72-1	50 M	50 M	5,000 M	5,000 M	50 M	50 M
TRICHLOROPROPANE, 1,1,2-	598-77-6	[210] <u>170</u> G	[580] <u>490</u> G	[21,000] <u>17,000</u> G	[58,000] <u>49,000</u> G	[210] <u>170</u> G	[580] <u>490</u> G
TRICHLOROPROPANE, 1,2,3-	96-18-4	40 H	40 H	4,000 H	4,000 H	4,000 H	4,000 H
TRICHLOROPROPENE, 1,2,3-	96-19-5	0.63 N	2.6 N	63 N	260 N	0.63 N	2.6 N
TRIETHYLAMINE	121-44-8	15 N	62 N	1,500 N	6,200 N	15 N	62 N
TRIETHYLENE GLYCOL	112-27-6	[83,000] <u>69,000</u> G	[230,000] <u>190,000</u> G	[8,300,000] <u>6,900,000</u> G	[23,000,000] <u>19,000,000</u> G	[83,000] <u>69,000</u> G	[230,000] <u>190,000</u> G
TRIFLURALIN	1582-09-8	10 H	10 H	1,000 H	1,000 H	10 H	10 H
TRIMETHYLBENZENE, 1,3,4- (TRIMETHYLBENZENE, 1,2,4-)	95-63-6	[15] <u>130</u> N	[62] <u>530</u> N	[1,500] <u>13,000</u> N	[6,200] <u>53,000</u> N	[1,500] <u>13,000</u> N	[6,200] <u>53,000</u> N
TRIMETHYLBENZENE, 1,3,5-	108-67-8	[420] <u>130</u> [G]] N	[1,200] <u>530</u> [G]] N	[42,000] <u>13,000</u> [G]] N	49,000 S	[420] <u>130</u> [G]] N	[1,200] <u>530</u> [G]] N
TRINITROGLYCEROL (NITROGLYCERIN)	55-63-0	5 H	5 H	500 H	500 H	[5] <u>500</u> H	[5] <u>500</u> H
TRINITROTOLUENE, 2,4,6-	118-96-7	2 H	2 H	200 H	200 H	2 H	2 H
VINYL ACETATE	108-05-4	420 N	1,800 N	42,000 N	180,000 N	420 N	1,800 N
VINYL BROMIDE (BROMOETHENE)	593-60-2	1.5 N	7.8 N	150 N	780 N	15 N	78 N
VINYL CHLORIDE	75-01-4	2 M	2 M	200 M	200 M	20 M	20 M
WARFARIN	81-81-2	[13] <u>10</u> G	[35] <u>29</u> G	[1,300] <u>1,000</u> G	[3,500] <u>2,900</u> G	[13,000] <u>10,000</u> G	17,000 S
XYLENES (TOTAL)	1330-20-7	10,000 M	10,000 M	180,000 S	180,000 S	180,000 S	180,000 S
ZINEB	12122-67-7	[2,100] <u>1,700</u> G	[5,800] <u>4,900</u> G	10,000 S	10,000 S	[2,100] <u>1,700</u> G	[5,800] <u>4,900</u> G

All concentrations in µg/L

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THMs – The values listed for trihalomethanes (THMs) are the total for all THMs combined.

HAAs – The values listed for haloacetic acids (HAAs) are the total for all HAAs combined.

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Appendix A

Table 2 – Medium-Specific Concentrations (MSCs) for Inorganic Regulated Substances in Groundwater

Regulated Substance	CASRN	Used Aquifers				Nonuse Aquifers	
		TDS ≤ 2500 mg/L		TDS > 2500 mg/L			
		R	NR	R	NR	R	NR
ANTIMONY	7440-36-0	6 M	6 M	600 M	600 M	6,000 M	6,000 M
ARSENIC	7440-38-2	10 M	10 M	1,000 M	1,000 M	10,000 M	10,000 M
ASBESTOS (fibers/L)	12001-29-5	7,000,000 M	7,000,000 M	7,000,000 M	7,000,000 M	7,000,000 M	7,000,000 M
BARIUM AND COMPOUNDS	7440-39-3	2,000 M	2,000 M	200,000 M	200,000 M	2,000,000 M	2,000,000 M
BERYLLIUM	7440-41-7	4 M	4 M	400 M	400 M	4,000 M	4,000 M
BORON AND COMPOUNDS	7440-42-8	6,000 H	6,000 H	600,000 H	600,000 H	6,000,000 H	6,000,000 H
CADMIUM	7440-43-9	5 M	5 M	500 M	500 M	5,000 M	5,000 M
CHROMIUM (TOTAL)	7440-47-3	100 M	100 M	10,000 M	10,000 M	100,000 M	100,000 M
COBALT	7440-48-4	[13] 10 G	[35] 29 G	[1,300] 1,000 G	[3,500] 2,900 G	[13,000] 10,000 G	[35,000] 29,000 G
COPPER	7440-50-8	1,000 M	1,000 M	100,000 M	100,000 M	1,000,000 M	1,000,000 M
CYANIDE, FREE	57-12-5	200 M	200 M	20,000 M	20,000 M	200,000 M	200,000 M
FLUORIDE	16984-48-8	4,000 M	4,000 M	400,000 M	400,000 M	4,000,000 M	4,000,000 M
LEAD	7439-92-1	5 M	5 M	500 M	500 M	5,000 M	5,000 M
LITHIUM	7439-93-2	[83] 69 G	[230] 190 G	[8,300] 6,900 G	[23,000] 19,000 G	[83,000] 69,000 G	[230,000] 190,000 G
MANGANESE	7439-96-5	300 H	300 H	30,000 H	30,000 H	300,000 H	300,000 H
MERCURY	7439-97-6	2 M	2 M	200 M	200 M	2,000 M	2,000 M
MOLYBDENUM	7439-98-7	40 H	40 H	4,000 H	4,000 H	40,000 H	40,000 H
NICKEL	7440-02-0	100 H	100 H	10,000 H	10,000 H	100,000 H	100,000 H
NITRATE NITROGEN	14797-55-8	10,000 M	10,000 M	1,000,000 M	1,000,000 M	10,000,000 M	10,000,000 M
NITRITE NITROGEN	14797-65-0	1,000 M	1,000 M	100,000 M	100,000 M	1,000,000 M	1,000,000 M
PERCHLORATE	7790-98-9	15 H	15 H	1,500 H	1,500 H	15,000 H	15,000 H
SELENIUM	7782-49-2	50 M	50 M	5,000 M	5,000 M	50,000 M	50,000 M
SILVER	7440-22-4	100 H	100 H	10,000 H	10,000 H	100,000 H	100,000 H
STRONTIUM	7440-24-6	4,000 H	4,000 H	400,000 H	400,000 H	4,000,000 H	4,000,000 H
THALLIUM	7440-28-0	2 M	2 M	200 M	200 M	2,000 M	2,000 M
TIN	7440-31-5	[25,000] 21,000 G	[70,000] 58,000 G	[2,500,000] 2,100,000 G	[7,000,000] 5,800,000 G	[25,000,000] 21,000,000 G	[70,000,000] 58,000,000 G

All concentrations in µg/L (except asbestos)

M = Maximum Contaminant Level

H = Lifetime Health Advisory Level

SMCL = Secondary Maximum Contaminant Level

G = Ingestion

N = Inhalation

R = Residential

NR = Nonresidential

PA State MCL adopted as MSC for Copper and Lead

Appendix A

Table 2 – Medium-Specific Concentrations (MSCs) for Inorganic Regulated Substances in Groundwater

Regulated Substance	CASRN	Used Aquifers				Nonuse Aquifers	
		TDS ≤ 2500 mg/L		TDS > 2500 mg/L			
		R	NR	R	NR	R	NR
VANADIUM	7440-62-2	[2.9] <u>2.4</u> G	[8.2] <u>6.8</u> G	[290] <u>240</u> G	[820] <u>680</u> G	[2,900] <u>2,400</u> G	[8,200] <u>6,800</u> G
ZINC AND COMPOUNDS	7440-66-6	2,000 H	2,000 H	200,000 H	200,000 H	2,000,000 H	2,000,000 H

SECONDARY CONTAMINANTS			
REGULATED SUBSTANCE	CASRN	SMCL	UNITS
ALUMINUM	7429-90-5	200	µg/L
CHLORIDE	7647-14-5	250,000	µg/L
[COPPER]	[7440-50-8]	[1000]	[µg/L]
[FLUORIDE]	[7681-49-4]	[2,000]	[µg/L]
IRON	7439-89-6	300	µg/L
[MANGANESE]	[7439-96-5]	[50]	[µg/L]
SULFATE	7757-82-6	250,000	µg/L

All concentrations in µg/L (except asbestos)

M = Maximum Contaminant Level

H = Lifetime Health Advisory Level

SMCL = Secondary Maximum Contaminant Level

G = Ingestion

N = Inhalation

PA State MCL adopted as MSC for Copper and Lead

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Appendix A
Table 3 – Medium-Specific Concentrations (MSCs) for Organic Regulated Substances in Soil
A. Direct Contact Numeric Values

REGULATED SUBSTANCE	CASRN	Residential 0-15 feet	Nonresidential	
			Surface Soil 0-2 feet	Subsurface Soil 2-15 feet
ACENAPHTHENE	83-32-9	13,000 G	190,000 C	190,000 C
ACENAPHTHYLENE	208-96-8	13,000 G	190,000 C	190,000 C
ACEPHATE	30560-19-1	[880] <u>260</u> G	[10,000] <u>3,800</u> G	190,000 C
ACETALDEHYDE	75-07-0	170 N	[720] <u>710</u> N	[830] <u>820</u> N
ACETONE	67-64-1	10,000 C	10,000 C	10,000 C
ACETONITRILE	75-05-8	1,100 N	[4,800] <u>4,700</u> N	5,500 N
ACETOPHENONE	98-86-2	10,000 C	10,000 C	10,000 C
ACETYLAMINOFLUORENE, 2- (2AAF)	53-96-3	4.9 G	24 G	190,000 C
ACROLEIN	107-02-8	0.38 N	1.6 N	1.8 N
ACRYLAMIDE	79-06-1	1.7 N	22 N	[26] <u>25</u> N
ACRYLIC ACID	79-10-7	19 N	79 N	91 N
ACRYLONITRILE	107-13-1	[6.6] <u>6.5</u> N	33 N	[38] <u>37</u> N
ALACHLOR	15972-60-8	330 G	1,600 G	190,000 C
ALDICARB	116-06-3	220 G	3,200 G	190,000 C
ALDICARB SULFONE	1646-88-4	220 G	3,200 G	190,000 C
ALDICARB SULFOXIDE	1646-87-3	220 G	3,200 G	190,000 C
ALDRIN	309-00-2	1.1 G	5.4 G	190,000 C
ALLYL ALCOHOL	107-18-6	1.9 N	[8] <u>7.9</u> N	9.1 N
AMETRYN	834-12-8	2,000 G	29,000 G	190,000 C
AMINOBIIPHENYL, 4-	92-67-1	0.89 G	4.3 G	190,000 C
AMITROLE	61-82-5	20 G	97 G	190,000 C
AMMONIA	7664-41-7	[1,900] <u>9,600</u> N	[8,000] <u>10,000</u> [N] <u>C</u>	[9,100] <u>10,000</u> [N] <u>C</u>
AMMONIUM SULFAMATE	7773-06-0	44,000 G	190,000 C	190,000 C
ANILINE	62-53-3	19 N	79 N	[91] <u>90</u> N
ANTHRACENE	120-12-7	66,000 G	190,000 C	190,000 C
ATRAZINE	1912-24-9	81 G	400 G	190,000 C
AZINPHOS-METHYL (GUTHION)	86-50-0	[660] <u>330</u> G	[9,600] <u>4,800</u> G	190,000 C
BAYGON (PROPOXUR)	114-26-1	880 G	13,000 G	190,000 C
BENOMYL	17804-35-2	[11,000] <u>7,800</u> G	[160,000] <u>38,000</u> G	190,000 C
BENTAZON	25057-89-0	6,600 G	96,000 G	190,000 C
BENZENE	71-43-2	57 N	[290] <u>280</u> N	330 N
BENZIDINE	92-87-5	0.018 G	0.4 G	190,000 C
BENZO[A]ANTHRACENE	56-55-3	[6] <u>6.1</u> G	130 G	190,000 C
BENZO[A]PYRENE	50-32-8	[0.58] <u>4.2</u> G	[12] <u>91</u> G	190,000 C
BENZO[B]FLUORANTHENE	205-99-2	3.5 G	76 G	190,000 C
BENZO[GH]PERYLENE	191-24-2	13,000 G	190,000 C	190,000 C
BENZO[K]FLUORANTHENE	207-08-9	[4] <u>3.5</u> G	76 G	190,000 C
BENZOIC ACID	65-85-0	190,000 C	190,000 C	190,000 C
BENZOTRICHLORIDE	98-07-7	1.4 G	7 G	10,000 C
BENZYL ALCOHOL	100-51-6	10,000 C	10,000 C	10,000 C
BENZYL CHLORIDE	100-44-7	9 N	45 N	52 N
BETA PROPIOLACTONE	57-57-8	0.11 N	[0.56] <u>0.55</u> N	[0.64] <u>0.63</u> N
BHC, ALPHA	319-84-6	3 G	14 G	190,000 C
BHC, BETA-	319-85-7	10 G	51 G	190,000 C
BHC, GAMMA (LINDANE)	58-89-9	17 G	83 G	190,000 C

All concentrations in mg/kg

G – Ingestion

N- Inhalation

C- Cap

Appendix A
Table 3 – Medium-Specific Concentrations (MSCs) for Organic Regulated Substances in Soil
A. Direct Contact Numeric Values

REGULATED SUBSTANCE	CASRN	Residential 0-15 feet	Nonresidential	
			Surface Soil 0-2 feet	Subsurface Soil 2-15 feet
BIPHENYL, 1,1-	92-52-4	[2,300] [G] 8.2 N	[11,000] [G] 34 N	[190,000] [C] 40 N
BIS(2-CHLOROETHOXY)METHANE	111-91-1	660 G	9,600 G	10,000 C
BIS(2-CHLOROETHYL)ETHER	111-44-4	1.3 N	6.7 N	[7.7] 7.6 N
BIS(2-CHLORO-ISOPROPYL)ETHER	108-60-1	44 N	220 N	250 N
BIS(CHLOROMETHYL)ETHER	542-88-1	[0.0072] 0.0071 N	0.036 N	0.041 N
BIS[2-ETHYLHEXYL] PHTHALATE	117-81-7	1,300 G	6,500 G	10,000 C
BISPHENOL A	80-05-7	11,000 G	160,000 G	190,000 C
BROMACIL	314-40-9	22,000 G	190,000 C	190,000 C
BROMOBENZENE	108-86-1	1,100 N	4,700 N	5,400 N
BROMOCHLOROMETHANE	74-97-5	[770] 760 N	3,200 N	3,600 N
BROMODICHLOROMETHANE	75-27-4	12 N	60 N	69 N
BROMOMETHANE	74-83-9	[96] 95 N	400 N	460 N
BROMOXYNIL	1689-84-5	[4,400] 180 G	[64,000] 880 G	190,000 C
BROMOXYNIL OCTANOATE	1689-99-2	[4,400] 180 G	[64,000] 880 G	190,000 C
BUTADIENE, 1,3-	106-99-0	[5.5] 15 [G] N	[27] 74 [G] N	85 N
BUTYL ALCOHOL, N-	71-36-3	10,000 C	10,000 C	10,000 C
BUTYLATE	2008-41-5	10,000 C	10,000 C	10,000 C
BUTYLBENZENE, N-	104-51-8	10,000 C	10,000 C	10,000 C
BUTYLBENZENE, SEC-	135-98-8	10,000 C	10,000 C	10,000 C
BUTYLBENZENE, TERT-	98-06-6	10,000 C	10,000 C	10,000 C
BUTYLBENZYL PHTHALATE	85-68-7	9,800 G	10,000 C	10,000 C
CAPTAN	133-06-2	8,100 G	40,000 G	190,000 C
CARBARYL	63-25-2	22,000 G	190,000 C	190,000 C
CARBAZOLE	86-74-8	930 G	4,600 G	190,000 C
CARBOFURAN	1563-66-2	1,100 G	16,000 G	190,000 C
CARBON DISULFIDE	75-15-0	10,000 C	10,000 C	10,000 C
CARBON TETRACHLORIDE	56-23-5	[74] 75 N	370 N	430 N
CARBOXIN	5234-68-4	22,000 G	190,000 C	190,000 C
CHLORAMBEN	133-90-4	3,300 G	48,000 G	190,000 C
CHLORDANE	57-74-9	53 G	260 G	190,000 C
CHLORO-1,1-DIFLUOROETHANE, 1-	75-68-3	10,000 C	10,000 C	10,000 C
CHLORO-1-PROPENE, 3- (ALLYL CHLORIDE)	107-05-1	19 N	80 N	[91] 92 N
CHLOROACETALDEHYDE	107-20-0	[62] 69 G	[300] 340 G	10,000 C
CHLOROACETOPHENONE, 2-	532-27-4	190,000 C	190,000 C	190,000 C
CHLOROANILINE, P-	106-47-8	93 G	460 G	190,000 C
CHLOROBENZENE	108-90-7	[960] 950 N	[4,000] 3,900 N	[4,600] 4,500 N
CHLOROBENZILATE	510-15-6	170 G	830 G	190,000 C
CHLOROBUTANE, 1-	109-69-3	8,800 G	10,000 C	10,000 C
CHLORODIBROMOMETHANE	124-48-1	[17] 220 [N] G	[82] 1,100 [N] G	[95] [N] 10,000 C
CHLORODIFLUOROMETHANE	75-45-6	10,000 C	10,000 C	10,000 C
CHLOROETHANE	75-00-3	[6,400] [G] 10,000 C	10,000 C	10,000 C
CHLOROFORM	67-66-3	19 N	[97] 96 N	110 N
CHLORONAPHTHALENE, 2-	91-58-7	18,000 G	190,000 C	190,000 C

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REGULATED SUBSTANCE	CASRN	Residential 0-15 feet	Nonresidential	
			Surface Soil 0-2 feet	Subsurface Soil 2-15 feet
CHLORONITROBENZENE, P-	100-00-5	[220] 39 [G] N	[3,200] [G] 160 N	[190,000] [C] 180 N
CHLOROPHENOL, 2-	95-57-8	1,100 G	10,000 C	10,000 C
CHLOROPRENE	126-99-8	1.5 N	7.4 N	8.5 N
CHLOROPROPANE, 2-	75-29-6	1,900 N	[8,000] 7,900	9,100 N
CHLOROTHALONIL	1897-45-6	[3,300] 1,100	[29,000] 5,400	190,000 C
CHLOROTOLUENE, O-	95-49-8	4,400 G	10,000 C	10,000 C
CHLOROTOLUENE, P-	106-43-4	4,400 C	10,000 C	10,000 C
CHLORPYRIFOS	2921-88-2	220 G	3,200 G	190,000 C
CHLORSULFURON	64902-72-3	[11,000] 4,400	[160,000] 64,000	190,000 C
CHLORTHAL-DIMETHYL (DACTHAL) (DCPA)	1861-32-1	2,200 G	32,000 G	190,000 C
CHRYSENE	218-01-9	35 G	760 G	190,000 C
CRESOL(S)	1319-77-3	10,000 C	10,000 C	10,000 C
CRESOL, 4,6-DINITRO-O-	534-52-1	18 G	260 G	190,000 C
CRESOL, O- (2-METHYLPHENOL)	95-48-7	11,000 G	160,000 G	190,000 C
CRESOL, M- (3-METHYLPHENOL)	108-39-4	10,000 C	10,000 C	10,000 C
CRESOL, P- (4-METHYLPHENOL)	106-44-5	1,100 G	16,000 G	190,000 C
CRESOL, P-CHLORO-M-	59-50-7	22,000 G	190,000 G	190,000 C
CROTONALDEHYDE	4170-30-3	9.8 G	48 G	10,000 C
CROTONALDEHYDE, TRANS-	123-73-9	9.8 G	48 G	10,000 C
CUMENE (ISOPROPYL BENZENE)	98-82-8	[7,700] 7,600	10,000 C	10,000 C
CYANAZINE	21725-46-2	22 G	110 G	190,000 C
CYCLOHEXANE	110-82-7	10,000 C	10,000 C	10,000 C
CYCLOHEXANONE	108-94-1	10,000 C	10,000 C	10,000 C
CYFLUTHRIN	68359-37-5	5,500 G	80,000 G	190,000 C
CYROMAZINE	66215-27-8	[1,700] 110,000	[24,000] [G] 190,000 C	190,000 C
DDD, 4,4'-	72-54-8	78 G	380 G	190,000 C
DDE, 4,4'-	72-55-9	55 G	270 G	190,000 C
DDT, 4,4'-	50-29-3	55 G	270 G	190,000 C
DI(2-ETHYLHEXYL)ADIPATE	103-23-1	10,000 C	10,000 C	10,000 C
DIALATE	2303-16-4	300 G	1,500 G	10,000 C
DIAMINOTOLUENE, 2,4-	95-80-7	4.7 G	23 G	190,000 C
DIAZINON	333-41-5	150 G	2,200 G	10,000 C
DIBENZO[A,H]ANTHRACENE	53-70-3	1 G	22 G	190,000 C
DIBENZOFURAN	132-64-9	220 G	3,200 G	190,000 C
DIBROMO-3-CHLOROPROPANE, 1,2-	96-12-8	0.029 N	0.37 N	[0.43] 0.42
DIBROMOBENZENE, 1,4-	106-37-6	2,200 G	32,000 G	190,000 C
DIBROMOETHANE, 1,2- (ETHYLENE DIBROMIDE)	106-93-4	0.74 N	3.7 N	[4.3] 4.2
DIBROMOMETHANE	74-95-3	[77] 76	[320] 310	[370] 360
DIBUTYL PHTHALATE, N-	84-74-2	10,000 C	10,000 C	10,000 C
DICAMBA	1918-00-9	6,600 G	96,000 G	190,000 C
DICHLOROACETIC ACID	76-43-6	370 G	1,800 G	10,000 C
DICHLORO-2-BUTENE, 1,4-	764-41-0	0.11 N	[0.53] 0.52	[0.61] 0.6
DICHLORO-2-BUTENE, TRANS-1,4-	110-57-6	[0.1] 0.11	0.52 N	0.6 N
DICHLOROBENZENE, 1,2-	95-50-1	3,800 N	10,000 C	10,000 C

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DICHLOROBENZENE, 1,3-	541-73-1	10,000 C	10,000	C	10,000	C
DICHLOROBENZENE, P-	106-46-7	40 N	200	N	230	N
DICHLOROBENZIDINE, 3,3'-	91-94-1	41 G	200	G	190,000	C
DICHLORODIFLUOROMETHANE (FREON 12)	75-71-8	1,900 N	8,000	N	9,100	N
DICHLOROETHANE, 1,1-	75-34-3	280 N	1,400	N	1,600	N
DICHLOROETHANE, 1,2-	107-06-2	17 N	[86] 85	N	98	N
DICHLOROETHYLENE, 1,1-	75-35-4	3,800 N	10,000	C	10,000	C
DICHLOROETHYLENE, CIS-1,2-	156-59-2	440 G	6,400	G	10,000	C
DICHLOROETHYLENE, TRANS-1,2-	156-60-5	[1,100] [N] 4,400 G	[4,800] [N] 10,000 C		[5,500] [N] 10,000 C	
DICHLOROMETHANE (METHYLENE CHLORIDE)	75-09-2	1,300 G	10,000	C	10,000	C
DICHLOROPHENOL, 2,4-	120-83-2	660 G	9,600	G	190,000	C
DICHLOROPHOXYACETIC ACID, 2,4- (2,4-D)	94-75-7	2,200 G	32,000	G	190,000	C
DICHLOROPROPANE, 1,2-	78-87-5	[45] 0.12 N	[220] 0.6 N		[260] 0.69 N	
DICHLOROPROPENE, 1,3-	542-75-6	110 N	[560] 550 N		640	N
DICHLOROPROPIONIC ACID, 2,2- (DALAPON)	75-99-0	6,600 G	10,000	C	10,000	C
DICHLORVOS	62-73-7	64 G	310	G	10,000	C
DICYCLOPENTADIENE	77-73-6	[6] 5.7 N	24	N	27	N
DIELDRIN	60-57-1	1.2 G	[6] 5.7 G		190,000	C
DIETHANOLAMINE	111-42-2	440 G	6,400	G	10,000	C
DIETHYL PHTHALATE	84-66-2	10,000 C	10,000	C	10,000	C
DIFLUBENZURON	35367-38-5	4,400 G	64,000	G	190,000	C
DIISOPROPYL METHYLPHOSPHONATE	1445-75-6	10,000 C	10,000	C	10,000	C
DIMETHOATE	60-51-5	[44] 480 G	[40] 7,000 G		190,000	C
DIMETHOXYBENZIDINE, 3,3-	119-90-4	[1,300] 12 G	[6,500] 57 G		190,000	C
DIMETHRIN	70-38-2	66,000 G	190,000	C	190,000	C
DIMETHYLAMINOAZOBENZENE, P-	60-11-7	4 G	20	G	190,000	C
DIMETHYLANILINE, N,N-	121-69-7	440 G	[6,400] 3,400	G	10,000	C
DIMETHYLBENZIDINE, 3,3-	119-93-7	1.7 G	8.3	G	190,000	C
DIMETHYL METHYLPHOSPHONATE	756-79-6	10,000 C	10,000	C	10,000	C
DIMETHYLPHENOL, 2,4-	105-67-9	4,400 G	10,000	C	10,000	C
DINITROBENZENE, 1,3-	99-65-0	22 G	320	G	190,000	C
DINITROPHENOL, 2,4-	51-28-5	440 G	6,400	G	190,000	C
DINITROTOLUENE, 2,4-	121-14-2	60 G	290	G	190,000	C
DINITROTOLUENE, 2,6- (2,6-DNT)	606-20-2	12 G	61	G	190,000	C
DINOSEB	88-85-7	220 G	3,200	G	190,000	C
DIOXANE, 1,4-	123-91-1	[58] 89 N	[290] 440 N		[330] 510 N	
DIPHENAMID	957-51-7	6,600 G	96,000	G	190,000	C
DIPHENYLAMINE	122-39-4	[5,500] 22,000 G	[80,000] 190,000 [G] C		190,000	C
DIPHENYLHYDRAZINE, 1,2-	122-66-7	[23] 2.1 [G] N	[110] 10 [G] N		[190,000] 12 [C] N	
DIQUAT	85-00-7	480 G	7,000	G	190,000	C
DISULFOTON	298-04-4	8.8 G	130	G	10,000	C
DITHIANE, 1,4-	505-29-3	2,200 G	32,000	G	190,000	C
DIURON	330-54-1	440 G	6,400	G	190,000	C
ENDOSULFAN	115-29-7	1,300 G	19,000	G	190,000	C
ENDOSULFAN I (ALPHA)	959-98-8	1,300 G	19,000	G	190,000	C
ENDOSULFAN II (BETA)	33213-65-9	1,300 G	19,000	G	190,000	C
ENDOSULFAN SULFATE	1031-07-8	1,300 G	19,000	G	190,000	C

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ENDOTHALL	145-73-3	4,400 G	64,000 G	190,000 C
ENDRIN	72-20-8	66 G	960 G	190,000 C
EPICHLOROHYDRIN	106-89-8	19 N	79 N	91 N
ETHEPHON	16672-87-0	1,100 G	16,000 G	190,000 C
ETHION	563-12-2	110 G	1,600 G	10,000 C
ETHOXYETHANOL, 2- (EGEE)	110-80-5	[3,900] 3,800 N	10,000 C	10,000 C
ETHYL ACETATE	141-78-6	1,300 N	[5,600] 5,500 N	[6,400] 6,300 N
ETHYL ACRYLATE	140-88-5	150 N	[640] 630 N	[730] 720 N
ETHYL BENZENE	100-41-4	180 N	[890] 880 N	1,000 N
ETHYL DIPROPYLTHIOCARBAMATE, S- (EPTC)	759-94-4	[5,500] 10,000 [G] C	10,000 C	10,000 C
ETHYL ETHER	60-29-7	10,000 C	10,000 C	10,000 C
ETHYL METHACRYLATE	97-63-2	5,700 N	10,000 C	10,000 C
ETHYLENE CHLORHYDRIN	107-07-3	4,400 G	10,000 C	10,000 C
ETHYLENE GLYCOL	107-21-1	[7,700] 7,600 N	10,000 C	10,000 C
ETHYLENE THIOUREA (ETU)	96-45-7	18 G	260 G	190,000 C
ETHYLP-NITROPHENYL PHENYLPHOSPHOROTHIOATE	2104-64-5	2.2 G	32 G	190,000 C
FENAMIPHOS	22224-92-6	55 G	800 G	190,000 C
FENVALERATE (PYDRIN)	51630-58-1	5,500 G	10,000 C	10,000 C
FLUOMETURON	2164-17-2	2,900 G	42,000 G	190,000 C
FLUORANTHENE	206-44-0	8,800 G	130,000 G	190,000 C
FLUORENE	86-73-7	8,800 G	130,000 G	190,000 C
FLUOROTRICHLOROMETHANE (FREON 11)	75-69-4	10,000 C	10,000 C	10,000 C
FONOFOS	944-22-9	440 G	6,400 G	10,000 C
FORMALDEHYDE	50-00-0	34 N	170 N	200 N
FORMIC ACID	64-18-6	[6] 5.7 N	24 N	27 N
FOSETYL-AL	39148-24-8	190,000 C	190,000 C	190,000 C
FURAN	110-00-9	220 G	3,200 G	10,000 C
FURFURAL	98-01-1	[660] 530 G	[4,000] 2,600 [N] G	4,500 N
GLYPHOSATE	1071-83-6	22,000 G	190,000 C	190,000 C
HEPTACHLOR	76-44-8	[4] 4.1 G	20 G	190,000 C
HEPTACHLOR EPOXIDE	1024-57-3	2 G	10 G	190,000 C
HEXACHLOROBENZENE	118-74-1	12 G	57 G	190,000 C
HEXACHLOROBUTADIENE	87-68-3	220 G	1,200 G	10,000 C
HEXACHLOROCYCLOPENTADIENE	77-47-4	1,300 G	10,000 C	10,000 C
HEXACHLOROETHANE	67-72-1	[44] 46 N	[220] 230 N	[260] 270 N
HEXANE	110-54-3	10,000 C	10,000 C	10,000 C
HEXAZINONE	51235-04-2	7,300 G	110,000 G	190,000 C
HEXYTHIAZOX (SAVEY)	78587-05-0	5,500 G	80,000 G	190,000 C
HMX	2691-41-0	11,000 G	160,000 G	190,000 C
HYDRAZINE/HYDRAZINE SULFATE	302-01-2	[0.09] 0.091 N	0.45 N	0.52 N
HYDROQUINONE	123-31-9	310 G	1,500 G	190,000 C
INDENO[1,2,3-CD]PYRENE	193-39-5	3.5 G	76 G	190,000 C
IPRODIONE	36734-19-7	[8,800] 420 G	[130,000] 2,100 G	190,000 C
ISOBUTYL ALCOHOL	78-83-1	10,000 C	10,000 C	10,000 C

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ISOPHORONE	78-59-1	10,000 C	10,000	C	10,000	C
ISOPROPYL METHYLPHOSPHONATE	1832-54-8	10,000 C	10,000	C	10,000	C
KEPONE	143-50-0	1.9 G	9.1	G	190,000	C
MALATHION	121-75-5	4,400 G	10,000	C	10,000	C
MALEIC HYDRAZIDE	123-33-1	110,000 G	190,000	C	190,000	C
MANEB	12427-38-2	[1,100] 310 G	[16,000] 1,500 G	G	190,000	C
MERPHOS OXIDE	78-48-8	[6.6] 220 G	[96] 3,200 G	G	10,000	C
METHACRYLONITRILE	126-98-7	22 G	320 G	G	[2,800] 2,700 N	N
METHAMIDOPHOS	10265-92-6	11 G	160 G	G	190,000	C
METHANOL	67-56-1	10,000 C	10,000	C	10,000	C
METHOMYL	16752-77-5	5,500 G	80,000	G	190,000	C
METHOXYCHLOR	72-43-5	1,100 G	16,000	G	190,000	C
METHOXYETHANOL, 2-	109-86-4	380 N	1,600	N	1,800	N
METHYL ACETATE	79-20-9	10,000 C	10,000	C	10,000	C
METHYL ACRYLATE	96-33-3	380 N	1,600	N	1,800	N
METHYL CHLORIDE	74-87-3	250 N	1,200	N	1,400	N
METHYL ETHYL KETONE	78-93-3	10,000 C	10,000	C	10,000	C
METHYL HYDRAZINE	60-34-4	0.38 N	1.6	N	1.8	N
METHYL ISOBUTYL KETONE	108-10-1	10,000 C	10,000	C	10,000	C
METHYL ISOCYANATE	624-83-9	19 N	79	N	91	N
METHYL N-BUTYL KETONE (2-HEXANONE)	591-78-6	570 N	2,400	N	[2,800] 2,700 N	N
METHYL METHACRYLATE	80-62-6	10,000 C	10,000	C	10,000	C
METHYL METHANESULFONATE	66-27-3	190 G	920	G	10,000	C
METHYL PARATHION	298-00-0	55 G	800	G	190,000	C
METHYL STYRENE (MIXED ISOMERS)	25013-15-4	[770] 760 N	[3,200] 3,100 N	N	3,600	N
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	1,700 N	[8,600] 8,500 N	N	[9,900] 9,800 N	N
METHYLCHLOROPHENOXYACETIC ACID (MCPA)	94-74-6	110 G	1,600	C	190,000	C
METHYLENE BIS(2-CHLOROANILINE), 4,4'-	101-14-4	42 G	910	G	190,000	C
METHYLNAPHTHALENE, 2-	91-57-6	[880] 57 N	[13,000] 240 N	[G] N	[190,000] 270 N	[C] N
METHYLSTYRENE, ALPHA	98-83-9	10,000 C	10,000	C	10,000	C
METOLACHLOR	51218-45-2	10,000 C	10,000	C	10,000	C
METRIBUZIN	21087-64-9	5,500 G	80,000	G	190,000	C
MEVINPHOS	7786-34-7	5.5 G	80 G	G	190,000	C
MONOCHLOROACETIC ACID	79-11-8	440 G	6,400	G	190,000	C
NAPHTHALENE	91-20-3	[160] 13 N	[760] 66 N	[G] N	[190,000] 77 N	[C] N
NAPHTHYLAMINE, 1-	134-32-7	10 G	51	G	190,000	C
NAPHTHYLAMINE, 2-	91-59-8	10 G	51	G	190,000	C
NAPROPAMIDE	15299-99-7	[22,000] 26,000 G	190,000	C	190,000	C
NITROANILINE, O-	88-74-4	[2,200] 0.95 N	[32,000] 3.9 N	[G] N	[190,000] 4.5 N	[C] N
NITROANILINE, P-	100-01-6	880 G	4,600	G	190,000	C
NITROBENZENE	98-95-3	[440] 11 N	[6,400] 55 N	[G] N	[10,000] 63 N	[C] N
NITROGUANIDINE	556-88-7	22,000 G	190,000	C	190,000	C

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NITROPHENOL, 2-	88-75-5	1,800 G	26,000 G	190,000 C
NITROPHENOL, 4-	100-02-7	1,800 G	26,000 G	190,000 C
NITROPROPANE, 2-	79-46-9	0.16 N	0.82 N	0.94 N
NITROSODIETHYLAMINE, N-	55-18-5	0.0041 N	0.051 N	0.059 N
NITROSODIMETHYLAMINE, N-	62-75-9	0.012 N	0.16 N	0.18 N
NITROSO-DI-N-BUTYLAMINE, N-	924-16-3	[3.4] <u>0.28</u> [G] N	[17] <u>1.4</u> [G] N	[10,000] [C] <u>1.6</u> N
NITROSODI-N-PROPYLAMINE, N-	621-64-7	[2.7] <u>0.22</u> [G] N	[13] <u>1.1</u> [G] N	[10,000] [C] <u>1.3</u> N
NITROSODIPHENYLAMINE, N-	86-30-6	[3,800] [G] 170 N	[19,000] [G] 860 N	[190,000] [C] 990 N
NITROSO-N-ETHYLUREA, N-	759-73-9	0.16 G	3.4 G	190,000 C
OCTYL PHTHALATE, DI-N-	117-84-0	2,200 G	10,000 C	10,000 C
OXAMYL (VYDATE)	23135-22-0	5,500 G	80,000 G	190,000 C
PARAQUAT	1910-42-5	990 G	14,000 G	190,000 C
PARATHION	56-38-2	[1,300] G 6.6	[10,000] [C] 96 G	10,000 C
PCBS, TOTAL (POLYCHLORINATED BIPHENYLS) (AROCLORS)	1336-36-3	9.3 G	46 G	190,000 C
PCB-1016 (AROCLOR)	12674-11-2	[9] <u>15</u> G	[46] <u>220</u> G	10,000 C
PCB-1221 (AROCLOR)	11104-28-2	[9] <u>4.7</u> [G] N	[46] <u>23</u> [G] N	[10,000] [C] 27 N
PCB-1232 (AROCLOR)	11141-16-5	[9] <u>9.3</u> G	46 G	10,000 C
PCB-1242 (AROCLOR)	53469-21-9	[9] <u>9.3</u> G	46 G	10,000 C
PCB-1248 (AROCLOR)	12672-29-6	9.3 G	46 G	10,000 C
PCB-1254 (AROCLOR)	11097-69-1	4.4 G	[46] <u>64</u> G	10,000 C
PCB-1260 (AROCLOR)	11096-82-5	[9] <u>9.3</u> G	46 G	190,000 C
PEBULATE	1114-71-2	10,000 C	10,000 C	10,000 C
PENTACHLOROBENZENE	608-93-5	180 G	2,600 G	190,000 C
PENTACHLOROETHANE	76-01-7	210 G	1,000 G	10,000 C
PENTACHLORONITROBENZENE	82-68-8	72 G	350 G	190,000 C
PENTACHLOROPHENOL	87-86-5	47 G	230 G	190,000 C
PERFLUOROBUTANE SULFONATE (PFBS)	375-73-5	4,400 G	10,000 C	10,000 C
PERFLUOROOCTANE SULFONATE (PFOS)	1763-23-1	4.4 G	64 G	190,000 C
PERFLUOROOCTANOIC ACID (PFOA)	335-67-1	4.4 G	64 G	190,000 C
PHENACETIN	62-44-2	8,500 G	41,000 G	190,000 C
PHENANTHRENE	85-01-8	66,000 G	190,000 C	190,000 C
PHENOL	108-95-2	3,800 N	16,000 N	18,000 N
PHENYL MERCAPTAN	108-98-5	220 G	3,200 G	10,000 C
PHENYLENEDIAMINE, M-	108-45-2	1,300 G	19,000 G	190,000 C
PHENYLPHENOL, 2-	90-43-7	[9,800] G <u>9,600</u>	[48,000] G <u>47,000</u>	190,000 C
PHORATE	298-02-2	44 G	640 G	10,000 C
PHTHALIC ANHYDRIDE	85-44-9	[190,000] [C] <u>380</u> N	[190,000] [C] <u>1,600</u> N	[190,000] [C] <u>1,800</u> N
PICLORAM	1918-02-1	15,000 G	190,000 C	190,000 C
PROMETON	1610-18-0	3,300 G	48,000 G	190,000 C
PRONAMIDE	23950-58-5	17,000 G	190,000 C	190,000 C
PROPACHLOR	1918-16-7	2,900 G	42,000 G	190,000 C
PROPANIL	709-98-8	1,100 G	16,000 G	190,000 C
PROPANOL, 2- (ISOPROPYL ALCOHOL)	67-63-0	3,800 N	10,000 C	10,000 C

All concentrations in mg/kg

G – Ingestion

N- Inhalation

C- Cap

Appendix A
Table 3 – Medium-Specific Concentrations (MSCs) for Organic Regulated Substances in Soil
A. Direct Contact Numeric Values

REGULATED SUBSTANCE	CASRN	Residential 0-15 feet	Nonresidential	
			Surface Soil 0-2 feet	Subsurface Soil 2-15 feet
PROPAZINE	139-40-2	4,400 G	10,000 C	10,000 C
PROPHAM	122-42-9	4,400 G	64,000 G	190,000 C
PROPYLBENZENE, N-	103-65-1	10,000 C	10,000 C	10,000 C
PROPYLENE OXIDE	75-56-9	78 G	380 G	690 N
PYRENE	129-00-0	6,600 G	96,000 G	190,000 C
PYRETHRUM	8003-34-7	220 G	3,200 G	10,000 C
PYRIDINE	110-86-1	220 G	3,200 G	10,000 C
QUINOLINE	91-22-5	[6] 6.2 G	30 G	10,000 C
QUIZALOFOP (ASSURE)	76578-14-8	2,000 G	29,000 G	190,000 C
RDX	121-82-4	[170] 230 G	[830] 1,100 G	190,000 C
RESORCINOL	108-46-3	190,000 C	190,000 C	190,000 C
RONNEL	299-84-3	11,000 G	160,000 G	190,000 C
SIMAZINE	122-34-9	160 G	760 G	190,000 C
STRYCHNINE	57-24-9	66 G	960 G	190,000 C
STYRENE	100-42-5	10,000 C	10,000 C	10,000 C
TEBUTHIURON	34014-18-1	15,000 G	190,000 C	190,000 C
TERBACIL	5902-51-2	2,900 G	42,000 G	190,000 C
TERBUFOS	13071-79-9	5.5 G	80 G	10,000 C
TETRACHLOROBENZENE, 1,2,4,5-	95-94-3	66 G	960 G	190,000 C
TETRACHLORODIBENZO-P-DIOXIN, 2,3,7,8- (TCDD)	1746-01-6	0.00014 G	0.0007 G	190,000 C
TETRACHLOROETHANE, 1,1,1,2-	630-20-6	60 N	300 N	340 N
TETRACHLOROETHANE, 1,1,2,2-	79-34-5	[7.7] 7.6 N	38 N	44 N
TETRACHLOROETHYLENE (PCE)	127-18-4	[770] 760 N	3,200 N	3,600 N
TETRACHLOROPHENOL, 2,3,4,6-	58-90-2	6,600 G	96,000 G	190,000 C
TETRAETHYL LEAD	78-00-2	0.022 G	0.32 G	10,000 C
TETRAETHYLDITHIOPYROPHOSPHATE	3689-24-5	110 G	1,600 G	10,000 C
TETRAHYDROFURAN	109-99-9	[240] 230 N	[1,200] 1,100 N	[1,400] 1,300 N
THIOFANOX	39196-18-4	66 G	960 G	190,000 C
THIRAM	137-26-8	[1,100] 3,300 G	[16,000] 48,000 G	190,000 C
TOLUENE	108-88-3	10,000 C	10,000 C	10,000 C
TOLUIDINE, M-	108-44-1	1,200 G	5,700 G	10,000 C
TOLUIDINE, O-	95-53-4	1,200 G	5,700 G	10,000 C
TOLUIDINE, P-	106-49-0	620 G	3,000 G	190,000 C
TOXAPHENE	8001-35-2	17 G	83 G	190,000 C
TRIALATE	2303-17-5	[2,900] 26 G	[10,000] 130 [C] G	10,000 C
TRIBROMOMETHANE (BROMOFORM)	75-25-2	[410] 400 N	2,000 N	2,300 N
TRICHLORO-1,2,2-TRIFLUOROETHANE, 1,1,2-	76-13-1	10,000 C	10,000 C	10,000 C
TRICHLOROACETIC ACID	76-03-9	270 G	1,300 G	190,000 C
TRICHLOROBENZENE, 1,2,4-	120-82-1	[640] 39 [G] N	[3,100] 160 [G] N	[10,000] 190 [C] N
TRICHLOROBENZENE, 1,3,5-	108-70-3	[1,300] 46 [G] N	[19,000] 190 [G] N	[190,000] 230 [C] N
TRICHLOROETHANE, 1,1,1-	71-55-6	10,000 C	10,000 C	10,000 C
TRICHLOROETHANE, 1,1,2-	79-00-5	[4] 3.8 N	16 N	18 N
TRICHLOROETHYLENE (TCE)	79-01-6	38 N	160 N	180 N
TRICHLOROPHENOL, 2,4,5-	95-95-4	22,000 G	190,000 C	190,000 C
TRICHLOROPHENOL, 2,4,6-	88-06-2	220 G	3,200 G	190,000 C
TRICHLOROPHENOXYACETIC ACID, 2,4,5- (2,4,5-T)	93-76-5	2,200 G	32,000 G	190,000 C

All concentrations in mg/kg

G – Ingestion

N- Inhalation

C- Cap

Appendix A
Table 3 – Medium-Specific Concentrations (MSCs) for Organic Regulated Substances in Soil
A. Direct Contact Numeric Values

REGULATED SUBSTANCE	CASRN	Residential 0-15 feet	Nonresidential	
			Surface Soil 0-2 feet	Subsurface Soil 2-15 feet
TRICHLOROPHENOXYPROPIONIC ACID, 2,4,5- (2,4,5-TP)(SILVEX)	93-72-1	1,800 G	26,000 G	190,000 C
TRICHLOROPROPANE, 1,1,2-	598-77-6	1,100 G	10,000 C	10,000 C
TRICHLOROPROPANE, 1,2,3-	96-18-4	0.14 G	3.0 G	[28] 27 N
TRICHLOROPROPENE, 1,2,3-	96-19-5	5.7 N	24 N	27 N
TRIETHYLAMINE	121-44-8	130 N	[560] 550 N	[640] 630 N
TRIETHYLENE GLYCOL	112-27-6	10,000 C	10,000 C	10,000 C
TRIFLURALIN	1582-09-8	1,700 G	12,000 G	190,000 C
TRIMETHYLBENZENE, 1,3,4- (TRIMETHYLBENZENE, 1,2,4-)	95-63-6	[130] N 1,100	[560] N 4,700	[640] N 5,400
TRIMETHYLBENZENE, 1,3,5-	108-67-8	[2,200] [G] 1,100 N	[10,000] [C] 4,700 N	[10,000] [C] 5,400 N
TRINITROGLYCEROL (NITROGLYCERIN)	55-63-0	22 G	320 G	10,000 C
TRINITROTOLUENE, 2,4,6-	118-96-7	110 G	1,600 G	190,000 C
VINYL ACETATE	108-05-4	[3,900] N 3,800	10,000 C	10,000 C
VINYL BROMIDE (BROMOETHENE)	593-60-2	14 N	70 N	80 N
VINYL CHLORIDE	75-01-4	[0.9] 0.93 G	61 G	[280] 290 N
WARFARIN	81-81-2	66 G	960 G	190,000 C
XYLENES (TOTAL)	1330-20-7	1,900 N	[8,000] N 7,900	9,100 N
ZINEB	12122-67-7	11,000 G	160,000 G	190,000 C

All concentrations in mg/kg

G – Ingestion

N- Inhalation

C- Cap

Appendix A
Table 3 – Medium-Specific Concentrations (MSCs) for Organic Regulated Substances in Soil
B. Soil to Groundwater Numeric Values¹

REGULATED SUBSTANCE	CASRN	Used Aquifers										Nonuse Aquifers						Soil Buffer Distance (feet)		
		TDS ≤ 2500 mg/L						TDS > 2500 mg/L												
		Residential			Nonresidential			Residential			Nonresidential			Residential			Nonresidential			
		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC		Generic Value	
ACENAPHTHENE	83-32-9	[250] 210	[3,100] 2,600	E	380	4,700	E	380	4,700	E	380	4,700	E	380	4,700	E	380	4,700	E	15
ACENAPHTHYLENE	208-96-8	[250] 210	[2,800] 2,400	E	[700] 580	[8,000] 6,600	E	1,600	18,000	E	1,600	18,000	E	1,600	18,000	E	1,600	18,000	E	15
ACEPHATE	30560-19-1	[8.4] 4.2	[1.0] 0.5	E	[39] 12	[4.6] 1.4	E	[840] 420	[100] 50	E	[3,900] 1,200	[460] 140	E	[8.4] 4.2	[1.0] 0.5	E	[39] 12	[4.6] 1.4	E	NA
ACETALDEHYDE	75-07-0	1.9	0.23	E	7.9	0.96	E	190	23	E	790	96	E	1.9	0.23	E	7.9	0.96	E	NA
ACETONE	67-64-1	[3,800] 3,100	[430] 350	E	[10,000] 0 8,800	[1,200] 980	E	10,000	10,000	C	10,000	10,000	C	10,000	[4,300] 3,500	E	10,000	[10,000] 0 9,800	[C] E	NA
ACETONITRILE	75-05-8	13	1.5	E	53	6	E	1,300	150	E	5,300	600	E	130	15	E	530	60	E	NA
ACETOPHENONE	98-86-2	[420] 350	[230] 190	E	[1,200] 970	[640] 520	E	10,000	10,000	C	10,000	10,000	C	[420] 350	[230] 190	E	[1,200] 970	[640] 520	E	NA
ACETYLAMINOFLUORENE, 2- (2AAF)	53-96-3	[0.019] 0.017	[0.08] 0.07	E	[0.089] 0.072	[0.37] 0.3	E	[1.9] 1.7	[8] 7	E	[8.9] 7.2	[37] 30	E	[19] 17	[78] 70	E	[89] 72	[370] 300	E	20
ACROLEIN	107-02-8	0.0042	0.00047	E	0.018	0.002	E	0.42	0.047	E	1.8	0.2	E	0.042	0.0047	E	0.18	0.02	E	NA
ACRYLAMIDE	79-06-1	0.019	0.0033	E	0.25	0.043	E	1.9	0.33	E	25	4.3	E	0.019	0.0033	E	0.25	0.043	E	NA
ACRYLIC ACID	79-10-7	0.21	0.039	E	0.88	0.16	E	21	3.9	E	88	16	E	21	3.9	E	88	16	E	NA
ACRYLONITRILE	107-13-1	0.072	0.01	E	0.37	0.051	E	7.2	1	E	37	5.1	E	7.2	1	E	37	5.1	E	NA
ALACHLOR	15972-60-8	0.2	0.077	E	0.2	0.077	E	20	7.7	E	20	7.7	E	0.2	0.077	E	0.2	0.077	E	NA
ALDICARB	116-06-3	0.3	0.05	E	0.3	0.05	E	30	5	E	30	5	E	300	50	E	300	50	E	NA
ALDICARB SULFONE	1646-88-4	0.2	0.027	E	0.2	0.027	E	20	2.7	E	20	2.7	E	0.2	0.027	E	0.2	0.027	E	NA
ALDICARB SULFOXIDE	1646-87-3	0.4	0.045	E	0.4	0.045	E	40	4.5	E	40	4.5	E	0.4	0.045	E	0.4	0.045	E	NA
ALDRIN	309-00-2	[0.004 3] 0.0038	[0.52] 0.46	E	[0.02] 0.016	[2.4] 1.9	E	[0.43] 0.38	[52] 46	E	[2.0] 1.6	[240] 190	E	2	240	E	2	240	E	10
ALLYL ALCOHOL	107-18-6	0.021	0.0025	E	0.088	0.01	E	2.1	0.25	E	[9] 8.8	1	E	2.1	0.25	E	[9] 8.8	1	E	NA
AMETRYN	834-12-8	6	6.5	E	6	6.5	E	600	650	E	600	650	E	6	6.5	E	6	6.5	E	NA
AMINOBIPHENYL, 4-	92-67-1	[0.003 5] 0.0031	[0.0014] 0.0012	E	[0.016] 0.013	[0.006] 0.005	E	[0.35] 0.31	[0.14] 0.12	E	[1.6] 1.3	[0.62] 0.5	E	[3.5] 3.1	[1.4] 1.2	E	[16] 13	[6.2] 5	E	NA

¹ For other options see Section 250.308

All concentrations in mg/kg

E – Number calculated by the soil to groundwater equation is section 250.308

C – Cap

NA – The soil buffer distance option is not available for this substance

[THMs – The values listed for trihalomethanes (THMs) are the total for all THMs combined.]

[HAAs – The values listed for haloacetic acids (HAAs) are the total for all HAAs combined.]

Appendix A
Table 3 – Medium-Specific Concentrations (MSCs) for Organic Regulated Substances in Soil
B. Soil to Groundwater Numeric Values¹

REGULATED SUBSTANCE	CASRN	Used Aquifers										Nonuse Aquifers						Soil Buffer Distance (feet)		
		TDS ≤ 2500 mg/L						TDS > 2500 mg/L												
		Residential		Nonresidential		Residential		Nonresidential		Residential		Nonresidential								
		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value							
AMITROLE	61-82-5	[0.078] 0.069	[0.032] 0.028	E	[0.36] 0.29	[0.15] 0.12	E	[8] 6.9	[3.2] 2.8	E	[36] 29	[15] 12	E	[78] 69	[32] 28	E	[360] 290	[150] 120	E	NA
AMMONIA	7664-41-7	3,000	360	E	3,000	360	E	10,000	10,000	C	10,000	10,000	C	3,000	360	E	3,000	360	E	NA
AMMONIUM SULFAMATE	7773-06-0	200	24	E	200	24	E	20,000	2,400	E	20,000	2,400	E	200	24	E	200	24	E	NA
ANILINE	62-53-3	0.21	0.12	E	0.88	0.52	E	21	12	E	88	52	E	0.21	0.12	E	0.88	0.52	E	NA
ANTHRACENE	120-12-7	6.6	350	E	6.6	350	E	6.6	350	E	6.6	350	E	6.6	350	E	6.6	350	E	10
ATRAZINE	1912-24-9	0.3	0.13	E	0.3	0.13	E	30	13	E	30	13	E	0.3	0.13	E	0.3	0.13	E	NA
AZINPHOS-METHYL (GUTHION)	86-50-0	[13] 5.2	[15] 5.9	E	[35] 15	[40] 17	E	[1,300] 520	[1,500] 590	E	[3,200] 1,500	[3,600] 1,700	E	[13] 5.2	[15] 5.9	E	[35] 15	[40] 17	E	NA
BAYGON (PROPOXUR)	114-26-1	0.3	0.057	E	0.3	0.057	E	30	5.7	E	30	5.7	E	300	57	E	300	57	E	NA
BENOMYL	17804-35-2	[200] 27	[970] 130	E	[200] 110	[970] 530	E	200	970	E	200	970	E	[200] 27	[970] 130	E	[200] 110	[970] 530	E	20
BENTAZON	25057-89-0	20	2.9	E	20	2.9	E	2,000	290	E	2,000	290	E	20	2.9	E	20	2.9	E	NA
BENZENE	71-43-2	0.5	0.13	E	0.5	0.13	E	50	13	E	50	13	E	50	13	E	50	13	E	NA
BENZIDINE	92-87-5	[0.000 098] 0.0000 92	[0.13] 0.12	E	[0.001 5] 0.001 2	[2] 1.6	E	[0.0098] 0.0092	[13] 12	E	[0.15] 0.12	[200] 160	E	[0.098] 0.092	[130] 120	E	[1.5] 1.2	[2,000] 1,600	E	5
BENZO[A]ANTHRACENE	56-55-3	[0.032] 0.03	[28] 26	E	[0.49] 0.39	[430] 340	E	1.1	960	E	1.1	960	E	1.1	960	E	1.1	960	E	5
BENZO[A]PYRENE	50-32-8	0.02	46	E	0.02	46	E	0.38	860	E	0.38	860	E	0.38	860	E	0.38	860	E	5
BENZO[B]FLUORANTHENE	205-99-2	[0.019] 0.018	[26] 25	E	0.12	170	E	0.12	170	E	0.12	170	E	0.12	170	E	0.12	170	E	5
BENZO[GH]PERYLENE	191-24-2	0.026	180	E	0.026	180	E	0.026	180	E	0.026	180	E	0.026	180	E	0.026	180	E	5
BENZO[K]FLUORANTHENE	207-08-9	[0.019] 0.018	[210] 200	E	0.055	610	E	0.055	610	E	0.055	610	E	0.055	610	E	0.055	610	E	5
BENZOIC ACID	65-85-0	[17,00 0] 14,000	[3,200] 2,700	E	[47,00 0] 39,00 0	[9,000] 7,500	E	190,00 0	52,000	E	190,00 0	52,000	E	[17,000] 14,000	[3,200] 2,700	E	[47,000] 39,000	[9,000] 7,500	E	NA
BENZOTRICHLORIDE	98-07-7	[0.0056] 0.005	[0.014] 0.012	E	[0.026] 0.021	[0.063] 0.051	E	[0.56] 0.5	[1.4] 1.2	E	[3] 2.1	[6.3] 5.1	E	[5.6] 0.5	[14] 1.2	E	[26] 2.1	[63] 5.1	E	30

¹ For other options see Section 250.308

All concentrations in mg/kg

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NA – The soil buffer distance option is not available for this substance

[THMs – The values listed for trihalomethanes (THMs) are the total for all THMs combined.]

[HAAs – The values listed for haloacetic acids (HAAs) are the total for all HAAs combined.]

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Table 3 – Medium-Specific Concentrations (MSCs) for Organic Regulated Substances in Soil
B. Soil to Groundwater Numeric Values¹

REGULATED SUBSTANCE	CASRN	Used Aquifers												Nonuse Aquifers						Soil Buffer Distance (feet)
		TDS ≤ 2500 mg/L						TDS > 2500 mg/L												
		Residential			Nonresidential			Residential			Nonresidential			Residential			Nonresidential			
		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		
BENZYL ALCOHOL	100-51-6	[420] 350	[150] 130	E	[1,200] 970	[430] 350	E	10,000	10,000	C	10,000	10,000	C	[420] 350	[150] 130	E	[1,200] 970	[430] 350	E	NA
BENZYL CHLORIDE	100-44-7	0.1	0.059	E	0.51	0.3	E	10	5.9	E	51	30	E	10	5.9	E	51	30	E	NA
BETA PROPIOLACTONE	57-57-8	0.0012	0.00015	E	0.006 3	0.0007 6	E	[0.1] 0.12	0.015	E	0.63	0.076	E	0.012	0.0015	E	0.063	0.0076	E	NA
BHC, ALPHA	319-84-6	[0.012] 0.01	[0.055] 0.046	E	[0.054] 0.043	[0.25] 0.2	E	1	[5.5] 4.6	E	[5.4] 4.3	[25] 20	E	[12] 10	[55] 46	E	[54] 43	[250] 200	E	20
BHC, BETA-	319-85-7	[0.041] 0.036	[0.24] 0.21	E	[0.19] 0.15	[1.1] 0.88	E	[4.1] 3.6	[24] 21	E	10	59	E	10	59	E	10	59	E	15
BHC, GAMMA (LINDANE)	58-89-9	0.02	0.072	E	0.02	0.072	E	2	7.2	E	2	7.2	E	20	72	E	20	72	E	20
BIPHENYL, 1,1-	92-52-4	[9.1] 0.084	[40] 0.37	E	[43] 0.35	[190] 1.5	E	[720] 8.4	[3,100] 37	E	[720] 35	[3,100] 150	E	[720] 8.4	[3,100] 37	E	[720] 35	[3,100] 150	E	20
BIS(2-CHLOROETHOXY) METHANE	111-91-1	[13] 10	[3.4] 2.6	E	[35] 29	[9.2] 7.6	E	[1,300] 1,000	[340] 260	E	[3,500] 2,900	[920] 760	E	[13] 10	[3.4] 2.6	E	[35] 29	[9.2] 7.6	E	NA
BIS(2- CHLOROETHYL)ETHER	111-44-4	0.015	0.0045	E	0.076	0.023	E	1.5	0.45	E	7.6	2.3	E	1.5	0.45	E	7.6	2.3	E	NA
BIS(2-CHLORO- ISOPROPYL)ETHER	108-60-1	30	8	E	30	8	E	3,000	800	E	3,000	800	E	3,000	800	E	3,000	800	E	NA
BIS(CHLOROMETHYL)ETHER	542-88-1	0.0000 79	0.000012	E	0.000 4	0.0000 6	E	0.0079	[0.001] 0.0012	E	0.04	0.006	E	0.0079	[0.001] 0.0012	E	0.04	0.006	E	NA
BIS[2-ETHYLHEXYL] PHTHALATE	117-81-7	0.6	130	E	0.6	130	E	29	6,300	E	29	6,300	E	29	6,300	E	29	6,300	E	10
BISPHENOL A	80-05-7	[210] 170	[810] 660	E	[580] 490	[2,200] 1,900	E	12,000	46,000	E	12,000	46,000	E	12,000	46,000	E	12,000	46,000	E	20
BROMACIL	314-40-9	7	1.8	E	7	1.8	E	700	180	E	700	180	E	7	1.8	E	7	1.8	E	NA
BROMOBENZENE	108-86-1	0.006	0.0047	E	0.006	0.0047	E	0.6	0.47	E	0.6	0.47	E	0.006	0.0047	E	0.006	0.0047	E	NA
BROMOCHLOROMETHANE	74-97-5	9	1.6	E	9	1.6	E	900	160	E	900	160	E	9	1.6	E	9	1.6	E	NA
BROMODICHLORO METHANE (THM)	75-27-4	8	2.7	E	8	2.7	E	800	270	E	800	270	E	8	2.7	E	8	2.7	E	NA
BROMOMETHANE	74-83-9	1	0.54	E	1	0.54	E	100	54	E	100	54	E	100	54	E	100	54	E	NA
BROMOXYNIL	1689-84-5	[83] 0.63	[71] 0.54	E	[230] 2.6	[200] 2.2	E	[8,300] 63	[7,100] 54	E	[13,00 0] 260	[11,000] 220	E	[83] 0.63	[71] 0.54	E	[230] 2.6	[200] 2.2	E	NA
BROMOXYNIL OCTANOATE	1689-99-2	[8] 0.63	[360] 28	E	[8] 2.6	[360] 120	E	8	360	E	8	360	E	8	360	E	8	360	E	15

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All concentrations in mg/kg

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REGULATED SUBSTANCE	CASRN	Used Aquifers												Nonuse Aquifers						Soil Buffer Distance (feet)
		TDS ≤ 2500 mg/L						TDS > 2500 mg/L												
		Residential			Nonresidential			Residential			Nonresidential			Residential			Nonresidential			
		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		
BUTADIENE, 1,3-	106-99-0	[0.021] 0.11	[0.0086] 0.045	E	[0.1] 0.45	[0.041] 0.19	E	[2.1] 11	[0.86] 4.5	E	[10] 45	[4.1] 19	E	[2.1] 11	[0.86] 4.5	E	[10] 45	[4.1] 19	E	NA
BUTYL ALCOHOL, N-	71-36-3	[420] 350	[50] 42	E	[1,200] 970	[140] 120	E	10,000	[5,000] 4,200	E	10,000	10,000	C	[4,200] 3,500	[500] 420	E	[10,000] 9,700	[1,400] 1,200	E	NA
BUTYLATE	2008-41-5	40	58	E	40	58	E	4,000	5,800	E	4,000	5,800	E	40	58	E	40	58	E	30
BUTYLBENZENE, N-	104-51-8	[210] 170	[1,300] 1,100	E	[580] 490	[3,700] 3,100	E	1,500	9,500	E	1,500	9,500	E	[210] 170	[1,300] 1,100	E	[580] 490	[3,700] 3,100	E	15
BUTYLBENZENE, SEC-	135-98-8	[420] 350	[980] 820	E	[1,200] 970	[2,800] 2,300	E	1,700	4,000	E	1,700	4,000	E	[420] 350	[980] 820	E	[1,200] 970	[2,800] 2,300	E	30
BUTYLBENZENE, TERT-	98-06-6	[420] 350	[760] 630	E	[1,200] 970	[2,200] 1,800	E	3,000	5,400	E	3,000	5,400	E	[420] 350	[760] 630	E	[1,200] 970	[2,200] 1,800	E	30
BUTYLBENZYL PHTHALATE	85-68-7	[38] 34	[3,200] 2,900	E	[180] 140	10,000	C	270	10,000	C	270	10,000	C	270	10,000	C	270	10,000	C	10
CAPTAN	133-06-2	[32] 28	[20] 17	E	50	31	E	50	31	E	50	31	E	50	31	E	50	31	E	NA
CARBARYL	63-25-2	[420] 350	[250] 210	E	[1,200] 970	[700] 570	E	12,000	7,000	E	12,000	7,000	E	12,000	7,000	E	12,000	7,000	E	NA
CARBAZOLE	86-74-8	[3.7] 3.3	[24] 21	E	[17] 14	[110] 89	E	120	760	E	120	760	E	[4] 3.3	[24] 21	E	[17] 14	[110] 89	E	15
CARBOFURAN	1563-66-2	4	0.87	E	4	0.87	E	400	87	E	400	87	E	4	0.87	E	4	0.87	E	NA
CARBON DISULFIDE	75-15-0	150	130	E	620	530	E	10,000	10,000	C	10,000	10,000	C	150	130	E	620	530	E	NA
CARBON TETRACHLORIDE	56-23-5	0.5	0.26	E	0.5	0.26	E	50	26	E	50	26	E	5	2.6	E	5	2.6	E	NA
CARBOXIN	5234-68-4	70	53	E	70	53	E	7,000	5,300	E	7,000	5,300	E	70	53	E	70	53	E	NA
CHLORAMBEN	133-90-4	10	1.6	E	10	1.6	E	1,000	160	E	1,000	160	E	10	1.6	E	10	1.6	E	NA
CHLORDANE	57-74-9	0.2	49	E	0.2	49	E	5.6	1,400	E	5.6	1,400	E	5.6	1,400	E	5.6	1,400	E	10
CHLORO-1,1-DIFLUOROETHANE, 1-	75-68-3	10,000	1,800	E	10,000	7,300	E	10,000	10,000	C	10,000	10,000	C	10,000	1,800	E	10,000	7,300	E	NA
CHLORO-1-PROPENE, 3-(ALLYL CHLORIDE)	107-05-1	0.21	0.049	E	0.88	0.2	E	21	4.9	E	88	20	E	21	4.9	E	88	20	E	NA
CHLOROACETALDEHYDE	107-20-0	0.24	0.029	E	[1.1] 1	[0.13] 0.12	E	24	2.9	E	[110] 100	[13] 12	E	0.24	0.029	E	[1.1] 1	[0.1] 0.12	E	NA
[CHLOROACETOPHENONE, 2-]	[532-27-4]	[0.13]	[0.039]	[E]	[0.35]	[0.11]	[E]	[13]	[3.9]	[E]	[35]	[11.0]	[E]	[130]	[39]	[E]	[350]	[110]	[E]	[NA]

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All concentrations in mg/kg

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		TDS ≤ 2500 mg/L						TDS > 2500 mg/L												
		Residential			Nonresidential			Residential			Nonresidential			Residential			Nonresidential			
		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		
CHLOROANILINE, P-	106-47-8	[0.37] 0.33	[0.47] 0.42	E	[1.7] 1.4	[2.1] 1.8	E	[37] 33	[47] 42	E	[170] 140	[210] 180	E	[0.37] 0.33	[0.47] 0.42	E	[1.7] 1.4	[2.1] 1.8	E	NA
CHLOROBENZENE	108-90-7	10	6.1	E	10	6.1	E	1,000	610	E	1,000	610	E	1,000	610	E	1,000	610	E	NA
CHLOROBENZILATE	510-15-6	[0.66] 0.59	[4.4] 3.9	E	[3.1] 2.5	[20] 17	E	[66] 59	[440] 390	E	[310] 250	[2,000] 1,700	E	[660] 590	[4,400] 3,900	E	1,300	8,600	E	15
CHLOROBUTANE, 1-	109-69-3	[170] 140	[270] 220	E	[470] 390	[730] 610	E	10,000	10,000	C	10,000	10,000	C	[170] 140	[270] 220	E	[470] 390	[730] 610	E	30
CHLORODIBROMO METHANE (THM)	124-48-1	8	2.5	E	8	2.5	E	800	250	E	800	250	E	800	250	E	800	250	E	NA
CHLORODIFLUORO METHANE (THM)	75-45-6	10,000	2,800	E	10,000	2,800	E	10,000	10,000	C	10,000	10,000	C	10,000	2,800	E	10,000	10,000	C	NA
CHLOROETHANE	75-00-3	[25] 2,100	[5.4] 450	E	[120] 8,800	[26] 1,900	E	[2,500] 10,000	[540] 10,000	[E] C	10,000	[2,600] 10,000	[E] C	[2,500] 10,000	[540] 10,000	[E] C	10,000	[2,600] 10,000	[E] C	NA
CHLOROFORM (THM)	67-66-3	8	2	E	8	2	E	800	200	E	800	200	E	80	20	E	80	20	E	NA
CHLORONAPHTHALENE, 2-	91-58-7	[330] 280	[7,000] 6,000	E	[930] 780	[20,000] 17,000	E	1,200	26,000	E	1,200	26,000	E	[330] 280	[7,000] 6,000	E	[930] 780	[20,000] 17,000	E	15
CHLORONITROBENZENE, P-	100-00-5	[4.2] 0.42	[5.5] 0.55	E	[12] 1.8	[16] 2.4	E	[420] 42	[550] 55	E	[1,200] 180	[1,600] 240	E	[4.2] 0.42	[5.5] 0.55	E	[12] 1.8	[16] 2.4	E	NA
CHLOROPHENOL, 2-	95-57-8	4	4.4	E	4	4.4	E	400	440	E	400	440	E	4	4.4	E	4	4.4	E	NA
CHLOROPRENE	126-99-8	0.016	0.0038	E	0.083	0.02	E	1.6	0.38	E	8.3	2	E	1.6	0.38	E	8.3	2	E	NA
CHLOROPROPANE, 2-	75-29-6	21	16	E	88	67	E	2,100	1,600	E	8,800	6,700	E	21	16	E	88	67	E	NA
CHLOROTHALONIL	1897-45-6	[24] 3.8	[61] 9.7	E	[60] 16	[150] 41	E	60	150	E	60	150	E	[24] 3.8	[61] 9.7	E	[60] 16	[150] 41	E	30
CHLOROTOLUENE, O-	95-49-8	10	20	E	10	20	E	1,000	2,000	E	1,000	2,000	E	10	20	E	10	20	E	30
CHLOROTOLUENE, P-	106-43-4	10	10	E	10	10	E	1,000	1,000	E	1,000	1,000	E	10	10	E	10	10	E	NA
CHLORPYRIFOS	2921-88-2	0.2	2.3	E	0.2	2.3	E	20	230	E	20	230	E	0.2	2.3	E	0.2	2.3	E	15
CHLORSULFURON	64902-72-3	[210] 69	[29] 9.6	E	[580] 190	[80] 26	E	[19,000] 6,900	[2,600] 960	E	19,000	2,600	E	[210] 69	[29] 9.6	E	[580] 190	[80] 26	E	NA
CHLORTHAL-DIMETHYL (DACTHAL) (DCPA)	1861-32-1	7	110	E	7	110	E	50	820	E	50	820	E	50	820	E	50	820	E	15

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		TDS ≤ 2500 mg/L						TDS > 2500 mg/L												
		Residential			Nonresidential			Residential			Nonresidential			Residential			Nonresidential			
		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC		Generic Value	
CHRYSENE	218-01-9	[0.19] 0.18	[230] 220	E	0.19	230	E	0.19	230	E	0.19	230	E	0.19	230	E	0.19	230	E	5
CRESOL(S)	1319-77-3	130	23	E	530	92	E	10,000	2,300	E	10,000	9,200	E	10,000	2,300	E	10,000	9,200	E	NA
CRESOL, 4,6-DINITRO-O-	534-52-1	[0.33] 0.28	[0.25] 0.21	E	[0.93] 0.78	[0.7] 0.59	E	[33] 28	[25] 21	E	[93] 78	[70] 59	E	[330] 28	[250] 21	E	[930] 78	[700] 59	E	NA
CRESOL, O- (2-METHYLPHENOL)	95-48-7	[210] 170	[35] 28	E	[580] 490	[96] 81	E	[21,000] 17,000	[3,500] 2,800	E	[58,000] 49,000	[9,600] 8,100	E	[21,000] 17,000	[3,500] 2,800	E	[58,000] 49,000	[9,600] 8,100	E	NA
CRESOL, M- (3-METHYLPHENOL)	108-39-4	[210] 170	[41] 34	E	[580] 490	[110] 97	E	10,000	[4,100] 3,400	E	10,000	[10,000] 9,700	[C] E	10,000	10,000	C	10,000	10,000	C	NA
CRESOL, P- (4-METHYLPHENOL)	106-44-5	[21] 17	[4.9] 4	E	[58] 49	[14] 11	E	[2,100] 1,700	[490] 400	E	[5,800] 4,900	[1,400] 1,100	E	[21,000] 17,000	[4,900] 4,000	E	[58,000] 49,000	[14,000] 11,000	E	NA
CRESOL, P-CHLORO-M-	59-50-7	[420] 350	[870] 720	E	[1,200] 970	[2,500] 2,000	E	[42,000] 35,000	[87,000] 72,000	E	[120,000] 97,000	190,000	C	[420] 350	[870] 720	E	[1,200] 970	[2,500] 2,000	E	30
CROTONALDEHYDE	4170-30-3	[0.038] 0.034	[0.0048] 0.0043	E	[0.18] 0.14	[0.023] 0.018	E	[3.8] 3.4	[0.48] 0.43	E	[18] 14	[2.3] 1.8	E	[3.8] 3.4	[0.48] 0.43	E	[18] 14	[2.3] 1.8	E	NA
CROTONALDEHYDE, TRANS-	123-73-9	[0.038] 0.034	[0.0048] 0.0043	E	[0.18] 0.14	[0.023] 0.018	E	[3.8] 3.4	[0.48] 0.43	E	[18] 14	[2.3] 1.8	E	[3.8] 3.4	[0.48] 0.43	E	[18] 14	[2.3] 1.8	E	NA
CUMENE (ISOPROPYL BENZENE)	98-82-8	84	600	E	350	2,500	E	5,000	10,000	C	5,000	10,000	C	5,000	10,000	C	5,000	10,000	C	15
CYANAZINE	21725-46-2	0.1	0.061	E	0.1	0.061	E	10	6.1	E	10	6.1	E	0.1	0.061	E	0.1	0.061	E	NA
CYCLOHEXANE	110-82-7	1,300	1,700	E	5,300	6,900	E	5,500	7,200	E	5,500	7,200	E	1,300	1,700	E	5,300	6,900	E	NA
CYCLOHEXANONE	108-94-1	150	41	E	620	170	E	10,000	4,100	E	10,000	10,000	C	150	41	E	620	170	E	NA
CYFLUTHRIN	68359-37-5	0.1	33	E	0.1	33	E	0.1	33	E	0.1	33	E	0.1	33	E	0.1	33	E	10
CYROMAZINE	66215-27-8	[31] 1,700	[96] 5,300	E	[88] 4,900	[270] 15,000	E	[3,100] 170,000	[9,600] 190,000	[C] E	[8,800] 190,000	[27,000] 190,000	[C] E	[31] 1,700	[96] 5,300	E	[88] 4,900	[270] 15,000	E	20
DDD, 4,4'-	72-54-8	[0.3] 0.27	[33] 30	E	[1.4] 1.1	[150] 120	E	16	1,800	E	16	1,800	E	16	1,800	E	16	1,800	E	10

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		TDS ≤ 2500 mg/L						TDS > 2500 mg/L												
		Residential			Nonresidential			Residential			Nonresidential			Residential			Nonresidential			
		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC		Generic Value	
DDE, 4,4'-	72-55-9	[0.21] 0.19	[46] 41	E	[1] 0.8	[220] 170	E	4	870	E	4	870	E	4	870	E	4	870	E	10
DDT, 4,4'-	50-29-3	[0.21] 0.19	[130] 110	E	0.55	330	E	0.55	330	E	0.55	330	E	0.55	330	E	0.55	330	E	5
DI(2-ETHYLHEXYL)ADIPATE	103-23-1	40	10,000	C	40	10,000	C	4,000	10,000	C	4,000	10,000	C	10,000	10,000	C	10,000	10,000	C	5
DIALATE	2303-16-4	[1.2] 1.1	[0.7] 0.64	E	[5.6] 4.5	[3.3] 2.6	E	[120] 110	[70] 64	E	[560] 450	[330] 260	E	[1,200] 1,100	[700] 640	E	[4,000] 4,000	[2,300] 2,300	E	NA
DIAMINOTOLUENE, 2,4-	95-80-7	[0.018] 0.016	[0.0036] 0.0032	E	[0.085] 0.068	[0.017] 0.014	E	[1.8] 1.6	[0.36] 0.32	E	[8.5] 6.8	[1.7] 1.4	E	[18] 16	[3.6] 3.2	E	[85] 68	[17] 14	E	NA
DIAZINON	333-41-5	0.1	0.14	E	0.1	0.14	E	10	14	E	10	14	E	0.1	0.14	E	0.1	0.14	E	30
DIBENZO[A,H] ANTHRACENE	53-70-3	[0.005 5] 0.0052	[25] 23	E	[0.06] 0.06	[270] 270	E	0.06	270	E	0.06	270	E	0.06	270	E	0.06	270	E	5
DIBENZOFURAN	132-64-9	[4.2] 3.5	[110] 90	E	[12] 9.7	[310] 250	E	[420] 350	[11,000] 9,000	E	450	12,000	E	[450] 350	[12,00 0] 9,000	E	450	12,000	E	15
DIBROMO-3- CHLOROPROPANE, 1,2-	96-12-8	0.02	0.0092	E	0.02	0.0092	E	2	0.92	E	2	0.92	E	2	0.92	E	2	0.92	E	NA
DIBROMOBENZENE, 1,4-	106-37-6	[42] 35	[170] 140	E	[120] 97	[490] 400	E	2,000	8,200	E	2,000	8,200	E	[42] 35	[170] 140	E	[120] 97	[490] 400	E	20
DIBROMOETHANE, 1,2- (ETHYLENE DIBROMIDE)	106-93-4	0.005	0.0012	E	0.005	0.0012	E	0.5	0.12	E	0.5	0.12	E	0.5	0.12	E	0.5	0.12	E	NA
DIBROMOMETHANE	74-95-3	0.84	0.32	E	3.5	1.4	E	84	32	E	350	140	E	84	32	E	350	140	E	NA
DIBUTYL PHTHALATE, N-	84-74-2	[420] 350	[1,700] 1,400	E	[1,200] 970	[4,900] 4,000	E	10,000	10,000	C	10,000	10,000	C	10,000	10,000	C	10,000	10,000	C	20
DICAMBA	1918-00-9	400	45	E	400	45	E	40,000	4,500	E	40,000	4,500	E	400	45	E	400	45	E	NA
DICHLOROACETIC ACID (HAA)	76-43-6	6	0.79	E	6	0.79	E	600	79	E	600	79	E	6	0.79	E	6	0.79	E	NA
DICHLORO-2-BUTENE, 1,4-	764-41-0	0.0012	0.00067	E	0.006	0.0034	E	0.12	[0.07] 0.067	E	0.6	0.34	E	0.0012	[0.000 7] 0.000 67	E	0.006	0.0034	E	NA

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B. Soil to Groundwater Numeric Values¹

REGULATED SUBSTANCE	CASRN	Used Aquifers												Nonuse Aquifers						Soil Buffer Distance (feet)
		TDS ≤ 2500 mg/L						TDS > 2500 mg/L												
		Residential			Nonresidential			Residential			Nonresidential			Residential			Nonresidential			
		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		
DICHLORO-2-BUTENE, TRANS-1,4-	110-57-6	0.0012	0.00078	E	0.006	0.0039	E	0.12	0.078	E	0.6	0.39	E	0.0012	0.00078	E	0.006	0.0039	E	NA
DICHLOROBENZENE, 1,2-	95-50-1	60	59	E	60	59	E	6,000	5,900	E	6,000	5,900	E	6,000	5,900	E	6,000	5,900	E	NA
DICHLOROBENZENE, 1,3-	541-73-1	60	61	E	60	61	E	6,000	6,100	E	6,000	6,100	E	6,000	6,100	E	6,000	6,100	E	NA
DICHLOROBENZENE, P-	106-46-7	7.5	10	E	7.5	10	E	750	1,000	E	750	1,000	E	750	1,000	E	750	1,000	E	30
DICHLOROBENZIDINE, 3,3'-	91-94-1	[0.16] 0.14	[8.8] 7.7	E	[0.76] 0.6	[42] 33	E	[16] 14	[880] 770	E	[76] 60	[4,200] 3,300	E	[160] 140	[8,800] 7,700	E	310	17,000	E	10
DICHLORODIFLUORO- METHANE (FREON 12)	75-71-8	100	100	E	100	100	E	10,000	10,000	C	10,000	10,000	C	10,000	10,000	C	10,000	10,000	C	NA
DICHLOROETHANE, 1,1-	75-34-3	3.1	0.75	E	16	3.9	E	310	75	E	1,600	390	E	31	7.5	E	160	39	E	NA
DICHLOROETHANE, 1,2-	107-06-2	0.5	0.1	E	0.5	0.1	E	50	10	E	50	10	E	5	1	E	5	1	E	NA
DICHLOROETHYLENE, 1,1-	75-35-4	0.7	0.19	E	0.7	0.19	E	70	19	E	70	19	E	7	1.9	E	7	1.9	E	NA
DICHLOROETHYLENE, CIS- 1,2-	156-59-2	7	1.6	E	7	1.6	E	700	160	E	700	160	E	70	16	E	70	16	E	NA
DICHLOROETHYLENE, TRANS-1,2-	156-60-5	10	2.3	E	10	2.3	E	1,000	230	E	1,000	230	E	100	23	E	100	23	E	NA
DICHLOROMETHANE (METHYLENE CHLORIDE)	75-09-2	0.5	0.076	E	0.5	0.076	E	50	7.6	E	50	7.6	E	50	7.6	E	50	7.6	E	NA
DICHLOROPHENOL, 2,4-	120-83-2	2	1	E	2	1	E	200	100	E	200	100	E	2,000	1,000	E	2,000	1,000	E	NA
DICHLOROPHENOXY ACETIC ACID, 2,4- (2,4-D)	94-75-7	7	1.8	E	7	1.8	E	700	180	E	700	180	E	7,000	1,800	E	7,000	1,800	E	NA
DICHLOROPROPANE, 1,2-	78-87-5	0.5	0.11	E	0.5	0.11	E	50	11	E	50	11	E	5	1.1	E	5	1.1	E	NA
DICHLOROPROPENE, 1,3-	542-75-6	[0.73] 0.65	[0.13] 0.12	E	[3.4] 2.7	[0.61] 0.48	E	[73] 65	[13] 12	E	[340] 270	[61] 48	E	[73] 65	[13] 12	E	[340] 270	[61] 48	E	NA
DICHLOROPROPIONIC ACID, 2,2- (DALAPON)	75-99-0	20	5.3	E	20	5.3	E	2,000	530	E	2,000	530	E	2,000	530	E	2,000	530	E	NA
DICHLORVOS	62-73-7	[0.25] 0.22	[0.059] 0.052	E	[1.2] 0.94	[0.28] 0.22	E	[25] 22	[5.9] 5.2	E	[120] 94	[28] 22	E	[0.25] 0.22	[0.059] 0.052	E	[1.2] 0.94	[0.28] 0.22	E	NA
DICYCLOPENTADIENE	77-73-6	0.063	0.13	E	0.26	0.56	E	[6] 6.3	13	E	26	56	E	[0.1] 0.063	[0.1] 0.13	E	[0.3] 0.26	[1] 0.56	E	30
DIELDRIN	60-57-1	[0.004 6] 0.0041	[0.13] 0.11	E	[0.021] 0.017	[0.58] 0.47	E	[0.46] 0.41	[13] 11	E	[2.1] 1.7	[58] 47	E	[4.6] 4.1	[130] 110	E	[17] 17	[470] 470	E	15
[DIETHANOLAMINE]	[111-42-2]	[NA]	[NA]		[NA]	[NA]		[NA]	[NA]		[NA]	[NA]		[NA]	[NA]		[NA]	[NA]		[NA]

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		TDS ≤ 2500 mg/L						TDS > 2500 mg/L												
		Residential			Nonresidential			Residential			Nonresidential			Residential			Nonresidential			
		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		
DIETHYL PHTHALATE	84-66-2	[3,300] 2,800	[1,000] 880	E	[9,300] 7,800	[2,900] 2,400	E	10,000	10,000	C	10,000	10,000	C	10,000	10,000	C	10,000	10,000	C	NA
DIFLUBENZURON	35367-38-5	20	52	E	20	52	E	20	52	E	20	52	E	20	52	E	20	52	E	20
DIISOPROPYL METHYLPHOSPHONATE	1445-75-6	60	8.2	E	60	8.2	E	6,000	820	E	6,000	820	E	60	8.2	E	60	8.2	E	NA
DIMETHOATE	60-51-5	[0.83] 7.6	[0.32] 2.9	E	[2.3] 21	[0.89] 8.1	E	[83] 760	[32] 290	E	[230] 2,100	[89] 810	E	[830] 7,600	[320] 2,900	E	[2,300] 21,000	[890] 8,100	E	NA
DIMETHOXYBENZIDINE, 3,3-	119-90-4	[0.046] 0.041	[0.15] 0.14	E	[0.21] 0.17	[0.71] 0.57	E	[5] 4.1	[15] 14	E	[21] 17	[71] 57	E	[46] 41	[150] 140	E	[210] 170	[710] 570	E	20
DIMETHRIN	70-38-2	3.6	240	E	3.6	240	E	3.6	240	E	3.6	240	E	3.6	240	E	3.6	240	E	10
DIMETHYLAMINOAZO BENZENE, P-	60-11-7	[0.016] 0.014	[0.042] 0.037	E	[0.074] 0.059	[0.19] 0.15	E	[1.6] 1.4	[4.2] 3.7	E	[7.4] 5.9	[19] 15	E	[16] 14	[42] 37	E	[74] 59	[190] 150	E	20
DIMETHYLANILINE, N,N-	121-69-7	[8.3] 2.4	[4.7] 1.3	E	[23] 10	[13] 5.6	E	[830] 240	[470] 130	E	[2,300] 1,000	[1,300] 560	E	[830] 240	[470] 130	E	[2,300] 1,000	[1,300] 560	E	NA
DIMETHYLBENZIDINE, 3,3-	119-93-7	[0.006] 6 0.0059	[0.36] 0.33	E	[0.031] 0.025	[1.7] 1.4	E	[0.7] 0.59	[36] 33	E	[3.1] 2.5	[170] 140	E	[7] 5.9	[360] 330	E	[31] 25	[1,700] 1,400	E	10
DIMETHYL METHYLPHOSPHONATE	756-79-6	10	1.2	E	10	1.2	E	1,000	120	E	1,000	120	E	10	1.2	E	10	1.2	E	NA
DIMETHYLPHENOL, 2,4-	105-67-9	[83] 69	[36] 30	E	[230] 190	[100] 83	E	[8,300] 6,900	[3,600] 3,000	E	10,000	[10,000] 8,300	[C] E	10,000	10,000	C	10,000	10,000	C	NA
DINITROBENZENE, 1,3-	99-65-0	0.1	0.049	E	0.1	0.049	E	10	4.9	E	10	4.9	E	100	49	E	100	49	E	NA
DINITROPHENOL, 2,4-	51-28-5	[8.3] 6.9	[0.94] 0.78	E	[23] 19	[2.6] 2.1	E	[830] 690	[94] 78	E	[2,300] 1,900	[260] 210	E	[8,300] 6,900	[940] 780	E	[23,000] 19,000	[2,600] 2,100	E	NA
DINITROTOLUENE, 2,4-	121-14-2	[0.24] 0.21	[0.057] 0.05	E	[1.1] 0.88	[0.26] 0.21	E	[24] 21	[6] 5	E	[110] 88	[26] 21	E	[240] 210	[57] 50	E	[1,100] 880	[260] 210	E	NA
DINITROTOLUENE, 2,6- (2,6-DNT)	606-20-2	[0.049] 0.043	[0.015] 0.013	E	[0.23] 0.18	[0.068] 0.053	E	[5] 4.3	[2] 1.3	E	[23] 18	[7] 5.3	E	[49] 43	[15] 13	E	[230] 180	[68] 53	E	NA
DINOSEB	88-85-7	0.7	0.29	E	0.7	0.29	E	70	29	E	70	29	E	700	290	E	700	290	E	NA

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		TDS ≤ 2500 mg/L						TDS > 2500 mg/L												
		Residential			Nonresidential			Residential			Nonresidential			Residential			Nonresidential			
		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC		Generic Value	
DIOXANE, 1,4-	123-91-1	[0.64] 0.65	[0.084] 0.085	E	[3.2] 2.7	[0.42] 0.35	E	[64] 65	[8.4] 8.5	E	[320] 270	[42] 35	E	[6.4] 6.5	[0.84] 0.85	E	[32] 27	[4.2] 3.5	E	NA
DIPHENAMID	957-51-7	20	12	E	20	12	E	2,000	1,200	E	2,000	1,200	E	20	12	E	20	12	E	NA
DIPHENYLAMINE	122-39-4	[100] 350	[59] 210	E	[290] 970	[170] 570	E	[10,000] 30,000	[5,900] 18,000	E	[29,000] 30,000	[17,000] 18,000	E	30,000	18,000	E	30,000	18,000	E	NA
DIPHENYLHYDRAZINE, 1,2-	122-66-7	[0.091] 0.022	[0.16] 0.039	E	[0.43] 0.11	[0.76] 0.19	E	[9.1] 2.2	[16] 3.9	E	[25] 11	[44] 19	E	[25] 2.2	[44] 3.9	E	[25] 11	[44] 19	E	30
DIQUAT	85-00-7	2	0.24	E	2	0.24	E	200	24	E	200	24	E	2	0.24	E	2	0.24	E	NA
DISULFOTON	298-04-4	0.07	0.18	E	0.07	0.18	E	7	18	E	7	18	E	70	180	E	70	180	E	20
DITHIANE, 1,4-	505-29-3	8	1.3	E	8	1.3	E	800	130	E	800	130	E	8	1.3	E	8	1.3	E	NA
DIURON	330-54-1	[8.3] 6.9	[7.1] 5.9	E	[23] 19	[20] 16	E	[830] 690	[710] 590	E	[2,300] 1,900	[2,000] 1,600	E	[8.3] 6.9	[7.1] 5.9	E	[23] 19	[20] 16	E	NA
ENDOSULFAN	115-29-7	[25] 21	[130] 110	E	48	250	E	48	250	E	48	250	E	48	250	E	48	250	E	15
ENDOSULFAN I (ALPHA)	959-98-8	[25] 21	[130] 110	E	50	260	E	50	260	E	50	260	E	[25] 21	[130] 110	E	50	260	E	15
ENDOSULFAN II (BETA)	33213-65-9	[25] 21	[150] 120	E	45	260	E	45	260	E	45	260	E	[25] 21	[150] 120	E	45	260	E	15
ENDOSULFAN SULFATE	1031-07-8	12	70	E	12	70	E	12	70	E	12	70	E	12	70	E	12	70	E	15
ENDOTHALL	145-73-3	10	4.1	E	10	4.1	E	1,000	410	E	1,000	410	E	10	4.1	E	10	4.1	E	NA
ENDRIN	72-20-8	0.2	5.5	E	0.2	5.5	E	20	550	E	20	550	E	0.2	5.5	E	0.2	5.5	E	15
EPICHLOROHYDRIN	106-89-8	0.21	0.042	E	0.88	0.17	E	21	4.2	E	88	17	E	21	4.2	E	88	17	E	NA
ETHEPHON	16672-87-0	[21] 17	[2.4] 2	E	[58] 49	[6.7] 5.7	E	[2,100] 1,700	[240] 200	E	[5,800] 4,900	[670] 570	E	[21] 17	[2.4] 2	E	[58] 49	[6.7] 5.7	E	NA
ETHION	563-12-2	[2.1] 1.7	[46] 37	E	[5.8] 4.9	[130] 110	E	85	1,900	E	85	1,900	E	[2.1] 1.7	[46] 37	E	[5.8] 4.9	[130] 110	E	15
ETHOXYETHANOL, 2- (EGEE)	110-80-5	42	5.9	E	180	25	E	4,200	590	E	10,000	2,500	E	4,200	590	E	10,000	2,500	E	NA
ETHYL ACETATE	141-78-6	15	3.9	E	62	16	E	1,500	390	E	6,200	1,600	E	1,500	390	E	6,200	1,600	E	NA
ETHYL ACRYLATE	140-88-5	[1.5] 1.4	[0.58] 0.54	E	[7.0] 5.7	[2.7] 2.2	E	[150] 140	[58] 54	E	[700] 570	[270] 220	E	[150] 140	[58] 54	E	[700] 570	[270] 220	E	NA
ETHYL BENZENE	100-41-4	70	46	E	70	46	E	7,000	4,600	E	7,000	4,600	E	7,000	4,600	E	7,000	4,600	E	NA

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		Residential			Nonresidential			Residential			Nonresidential		Residential			Nonresidential				
		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		
ETHYL DIPROPYL THIOCARBAMATE, S- (EPTC)	759-94-4	[100] 170	[71] 120	E	[290] 490	[210] 350	E	10,000	[7,100] 10,000	[E] C	10,000	10,000	C	[100] 170	[71] 120	E	[290] 490	[210] 350	E	NA
ETHYL ETHER	60-29-7	[830] 690	[230] 190	E	[2,300] 1,900	[650] 530	E	10,000	10,000	C	10,000	10,000	C	[830] 690	[230] 190	E	[2,300] 1,900	[650] 530	E	NA
ETHYL METHACRYLATE	97-63-2	63	10	E	260	43	E	6,300	1,000	E	10,000	4,300	E	63	10	E	260	43	E	NA
ETHYLENE CHLORHYDRIN	107-07-3	[83] 69	[10] 7.9	E	[230] 190	[26] 22	E	[8,300] 6,900	[950] 790	E	10,000	[2,600] 2,200	E	[83] 69	[10] 7.9	E	[230] 190	[26] 22	E	NA
ETHYLENE GLYCOL	107-21-1	1,400	170	E	1,400	170	E	10,000	10,000	C	10,000	10,000	C	10,000	10,000	C	10,000	10,000	C	NA
ETHYLENE THIOUREA (ETU)	96-45-7	[0.33] 0.28	[0.037] 0.031	E	[0.93] 0.78	[0.1] 0.087	E	[33] 28	[3.7] 3.1	E	[93] 78	[10] 8.7	E	[330] 280	[37] 31	E	[930] 780	[100] 87	E	NA
ETHYLP-NITROPHENYL PHENYLPHOSPHORO THIOATE	2104-64-5	[0.042] 0.035	[0.13] 0.11	E	[0.12] 0.097	[0.37] 0.3	E	[4.2] 3.5	[13] 11	E	[12] 9.7	[37] 30	E	[0.042] 0.035	[0.13] 0.11	E	[0.12] 0.097	[0.37] 0.3	E	20
FENAMIPHOS	22224-92-6	0.07	0.06	E	0.07	0.06	E	7	6	E	7	6	E	0.07	0.06	E	0.07	0.06	E	NA
FENVALERATE (PYDRIN)	51630-58-1	8.5	94	E	8.5	94	E	8.5	94	E	8.5	94	E	8.5	94	E	8.5	94	E	15
FLUOMETURON	2164-17-2	9	2.5	E	9	2.5	E	900	250	E	900	250	E	9	2.5	E	9	2.5	E	NA
FLUORANTHENE	206-44-0	26	3,200	E	26	3,200	E	26	3,200	E	26	3,200	E	26	3,200	E	26	3,200	E	10
FLUORENE	86-73-7	[170] 140	[3,400] 2,800	E	190	3,800	E	190	3,800	E	190	3,800	E	190	3,800	E	190	3,800	E	15
FLUOROTRICHORO METHANE (FREON 11)	75-69-4	200	87	E	200	87	E	10,000	8,700	E	10,000	8,700	E	10,000	8,700	E	10,000	8,700	E	NA
FONOFOS	944-22-9	1	2.9	E	1	2.9	E	100	290	E	100	290	E	1	2.9	E	1	2.9	E	20
FORMALDEHYDE	50-00-0	100	12	E	100	12	E	10,000	1,200	E	10,000	1,200	E	10,000	1,200	E	10,000	1,200	E	NA
FORMIC ACID	64-18-6	0.063	0.0071	E	0.26	0.029	E	6.3	0.71	E	26	2.9	E	0.63	0.071	E	2.6	0.29	E	NA
FOSETYL-AL	39148-24-8	[13,00 0] 8,700	[12,000] 7,700	E	[35,00 0] 24,00 0	[31,00 0] 21,000	E	190,00 0	190,00 0	C	190,00 0	190,00 0	C	[13,000] 8,700	[12,00 0] 7,700	E	[35,000] 24,000	[31,00 0] 21,000	E	NA
FURAN	110-00-9	[4.2] 3.5	[1.8] 1.5	E	[12] 9.7	[5.2] 4.2	E	[420] 350	[180] 150	E	[1,200] 970	[520] 420	E	[420] 350	[180] 150	E	[1,200] 970	[520] 420	E	NA

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		TDS ≤ 2500 mg/L						TDS > 2500 mg/L												
		Residential			Nonresidential			Residential			Nonresidential			Residential			Nonresidential			
		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC		Generic Value	
FURFURAL	98-01-1	[11] 1.9	[1.4] 0.24	E	[35] 7.8	[4.4] 0.99	E	[1,100] 190	[140] 24	E	[3,500] 780	[440] 99	E	[11] 1.9	[1.4] 0.24	E	[35] 7.8	[4.4] 0.99	E	NA
GLYPHOSATE	1071-83-6	70	620	E	70	620	E	7,000	62,000	E	7,000	62,000	E	70	620	E	70	620	E	15
HEPTACHLOR	76-44-8	0.04	0.68	E	0.04	0.68	E	4	68	E	4	68	E	18	310	E	18	310	E	15
HEPTACHLOR EPOXIDE	1024-57-3	0.02	1.1	E	0.02	1.1	E	2	110	E	2	110	E	20	1,100	E	20	1,100	E	10
HEXACHLOROBENZENE	118-74-1	0.1	0.96	E	0.1	0.96	E	0.6	5.8	E	0.6	5.8	E	0.6	5.8	E	0.6	5.8	E	15
HEXACHLOROBUTADIENE	87-68-3	[0.94] 0.84	[11] 10	E	[4.4] 3.5	[52] 42	E	[94] 84	[1,100] 1,000	E	[290] 290	[3,400] 3,400	E	290	3,400	E	290	3,400	E	15
HEXACHLOROCYCLO PENTADIENE	77-47-4	5	91	E	5	91	E	180	3,300	E	180	3,300	E	180	3,300	E	180	3,300	E	15
HEXACHLOROETHANE	67-72-1	0.1	0.56	E	0.1	0.56	E	10	56	E	10	56	E	10	56	E	10	56	E	15
HEXANE	110-54-3	150	1,400	E	[620] 580	[5,600] 5,300	E	950	8,700	E	950	8,700	E	150	1,400	E	[620] 580	[5,600] 5,300	E	15
HEXAZINONE	51235-04-2	40	8.5	E	40	8.5	E	4,000	850	E	4,000	850	E	40	8.5	E	40	8.5	E	NA
HEXYTHIAZOX (SAVEY)	78587-05-0	50	820	E	50	820	E	50	820	E	50	820	E	50	820	E	50	820	E	15
HMX	2691-41-0	40	4.8	E	40	4.8	E	500	60	E	500	60	E	40	4.8	E	40	4.8	E	NA
HYDRAZINE/HYDRAZINE SULFATE	302-01-2	0.001	0.00011	E	0.005 1	0.0005 7	E	0.1	0.011	E	0.51	0.057	E	0.01	0.0011	E	0.051	0.0057	E	NA
HYDROQUINONE	123-31-9	[1.2] 1.1	[0.16] 0.15	E	[5.7] 4.5	[0.77] 0.61	E	[120] 110	[16] 15	E	[570] 450	[77] 61	E	[1,200] 1,100	[160] 150	E	[5,700] 4,500	[770] 610	E	NA
INDENO[1,2,3-CD]PYRENE	193-39-5	[0.019] 0.018	[1,500] 1,400	E	[0.28] 0.23	[22,00 0] 18,000	E	[1.9] 1.8	[150,00 0] 140,00 0	E	6.2	190,00 0	C	6.2	190,00 0	C	6.2	190,00 0	C	5
IPRODIONE	36734-19-7	[170] 1.5	[490] 4.3	E	[470] 6.2	[1,300] 18	E	[1,300] 150	[3,700] 430	E	[1,300] 620	[3,700] 1,800	E	[170] 1.5	[490] 4.3	E	[470] 6.2	[1,300] 18	E	20
ISOBUTYL ALCOHOL	78-83-1	[1,300] 1,000	[340] 260	E	[3,500] 2,900	[910] 760	E	10,000	10,000	C	10,000	10,000	C	10,000	10,000	C	10,000	10,000	C	NA
ISOPHORONE	78-59-1	10	1.9	E	10	1.9	E	1,000	190	E	1,000	190	E	10,000	1,900	E	10,000	1,900	E	NA
ISOPROPYL METHYLPHOSPHONATE	1832-54-8	70	8.1	E	70	8.1	E	7,000	810	E	7,000	810	E	70	8.1	E	70	8.1	E	NA

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		TDS ≤ 2500 mg/L						TDS > 2500 mg/L												
		Residential			Nonresidential			Residential			Nonresidential			Residential			Nonresidential			
		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC		Generic Value	
KEPONE	143-50-0	[0.007 3] 0.0065	[1] 0.89	E	[0.034] 0.027	[4.7] 3.7	E	[0.73] 0.65	[100] 89	E	[3.4] 2.7	[470] 370	E	[7.3] 6.5	[1,000] 890	E	[34] 27	[4,700] 3,700	E	10
MALATHION	121-75-5	50	170	E	50	170	E	5,000	10,000	C	5,000	10,000	C	10,000	10,000	C	10,000	10,000	C	20
MALEIC HYDRAZIDE	123-33-1	400	47	E	400	47	E	40,000	4,700	E	40,000	4,700	E	400	47	E	400	47	E	NA
MANEB	12427-38-2	[21] 1.1	[2] 0.12	E	[58] 4.5	[6.6] 0.51	E	[2,100] 110	[240] 12	E	[2,300] 450	[260] 51	E	[21] 1.1	[2] 0.12	E	[58] 4.5	[6.6] 0.51	E	NA
MERPHOS OXIDE	78-48-8	[0.13] 3.5	[17] 460	E	[0.35] 9.7	[46] 1,300	E	[13] 230	[1,700] 10,000	[E] C	[35] 230	[4,600] 10,000	[E] C	[0.13] 3.5	[17] 460	E	[0.35] 9.7	[46] 1,300	E	10
METHACRYLONITRILE	126-98-7	[0.42] 0.35	[0.069] 0.057	E	[1.2] 0.97	[0.2] 0.16	E	[42] 35	[6.9] 5.7	E	[120] 97	[20] 16	E	[0.42] 0.35	[0.069] 0.057	E	[1.2] 0.97	[0.2] 0.16	E	NA
METHAMIDOPHOS	10265-92-6	[0.21] 0.17	[0.026] 0.021	E	[0.58] 0.49	[0.072] 0.061	E	[21] 17	[2.6] 2.1	E	[58] 49	[7.2] 6.1	E	[0.21] 0.17	[0.026] 0.021	E	[0.58] 0.49	[0.072] 0.061	E	NA
METHANOL	67-56-1	[840] 4,200	[99] 500	E	[3,500] 10,000 0	[410] 2,100	E	10,000	[9,900] 10,000	[E] C	10,000	10,000	C	10,000	[9,900] 10,000	[E] C	10,000	10,000	C	NA
METHOMYL	16752-77-5	20	3.2	E	20	3.2	E	2,000	320	E	2,000	320	E	20	3.2	E	20	3.2	E	NA
METHOXYCHLOR	72-43-5	4	630	E	4	630	E	4.5	710	E	4.5	710	E	4.5	710	E	4.5	710	E	10
METHOXYETHANOL, 2-	109-86-4	4.2	0.48	E	18	2	E	420	48	E	1,800	200	E	42	4.8	E	180	20	E	NA
METHYL ACETATE	79-20-9	[4,200] 3,500	[780] 650	E	[10,000 0] 9,700	[2,200] 1,800	E	10,000	10,000	C	10,000	10,000	C	[4,200] 3,500	[780] 650	E	[10,000] 9,700	[2,200] 1,800	E	NA
METHYL ACRYLATE	96-33-3	[4] 4.2	1	E	18	[5] 4.5	E	420	100	E	1,800	450	E	420	100	E	1,800	450	E	NA
METHYL CHLORIDE	74-87-3	3	0.38	E	3	0.38	E	300	38	E	300	38	E	300	38	E	300	38	E	NA
METHYL ETHYL KETONE	78-93-3	400	76	E	400	76	E	10,000	7,600	E	10,000	7,600	E	10,000	7,600	E	10,000	7,600	E	NA
METHYL HYDRAZINE	60-34-4	0.0042	0.00048	E	0.018	0.002	E	0.42	0.048	E	1.8	0.2	E	0.042	0.0048	E	0.18	0.02	E	NA
METHYL ISOBUTYL KETONE	108-10-1	[330] 280	[51] 43	E	[930] 780	[140] 120	E	10,000	[5,100] 4,300	E	10,000	10,000	C	10,000	[5,100] 4,300	E	10,000	10,000	C	NA
METHYL ISOCYANATE	624-83-9	0.21	0.029	E	0.88	0.12	E	21	2.9	E	88	12	E	0.21	0.029	E	0.88	0.12	E	NA
METHYL N-BUTYL KETONE (2-HEXANONE)	591-78-6	6.3	1.6	E	26	6.4	E	630	160	E	2,600	640	E	6.3	1.6	E	26	6.4	E	NA

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		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC		Generic Value	
METHYL METHACRYLATE	80-62-6	150	20	E	620	84	E	10,000	2,000	E	10,000	8,400	E	10,000	2,000	E	10,000	8,400	E	NA
METHYL METHANESULFONATE	66-27-3	[0.74] 0.66	[0.092] 0.082	E	[3.4] 2.7	[0.42] 0.34	E	[74] 66	[9.2] 8.2	E	[340] 270	[42] 34	E	[0.74] 0.66	[0.092] 0.082	E	[3.4] 2.7	[0.42] 0.34	E	NA
METHYL PARATHION	298-00-0	0.1	0.21	E	0.1	0.21	E	10	21	E	10	21	E	100	210	E	100	210	E	30
METHYL STYRENE (MIXED ISOMERS)	25013-15-4	8.4	47	E	35	200	E	840	4,700	E	3,500	10,000	C	8.4	47	E	35	200	E	15
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	2	0.28	E	2	0.28	E	200	28	E	200	28	E	20	2.8	E	20	2.8	E	NA
METHYLCHLOROPHENOXYA CETIC ACID (MCPA)	94-74-6	3	1.2	E	3	1.2	E	300	120	E	300	120	E	3,000	1,200	E	3,000	1,200	E	NA
METHYLENE BIS(2- CHLOROANILINE), 4,4'-	101-14-4	[0.23] 0.21	[1.8] 1.6	E	[3.4] 2.7	[26] 21	E	[23] 21	[180] 160	E	[340] 270	[2,600] 2,100	E	[0.23] 0.21	[1.8] 1.6	E	[3.4] 2.7	[26] 21	E	15
METHYLNAPHTHALENE, 2-	91-57-6	[17] 0.63	[680] 25	E	[47] 2.6	[1,900] 100	E	[1,700] 63	[68,000] 2,500	E	[2,500] 260	[100,000] 10,000	E	[17] 0.63	[680] 25	E	[47] 2.6	[1,900] 100	E	15
METHYLSTYRENE, ALPHA	98-83-9	[290] 240	[510] 420	E	[820] 680	[1,400] 1,200	E	10,000	10,000	C	10,000	10,000	C	[290] 240	[510] 420	E	[820] 680	[1,400] 1,200	E	30
METOLACHLOR	51218-45-2	70	40	E	70	40	E	7,000	4,000	E	7,000	4,000	E	70	40	E	70	40	E	NA
METRIBUZIN	21087-64-9	7	2.4	E	7	2.4	E	700	240	E	700	240	E	7	2.4	E	7	2.4	E	NA
MEVINPHOS	7786-34-7	0.087	0.019	E	0.24	0.053	E	8.7	1.9	E	24	5.3	E	0.087	0.019	E	0.24	0.053	E	NA
MONOCHLOROACETIC ACID (HAA)	79-11-8	6	0.67	E	6	0.67	E	600	67	E	600	67	E	6	0.67	E	6	0.67	E	NA
NAPHTHALENE	91-20-3	10	25	E	10	25	E	1,000	2,500	E	1,000	2,500	E	[3,000] 1,000	[7,500] 2,500	E	[3,000] 1,000	[7,500] 2,500	E	30
NAPHTHYLAMINE, 1-	134-32-7	[0.041] 0.036	[0.33] 0.29	E	[0.19] 0.15	[1.5] 1.2	E	[4.1] 3.6	[33] 29	E	[19] 15	[150] 120	E	[41] 3.6	[330] 29	E	[190] 15	[1,500] 120	E	15
NAPHTHYLAMINE, 2-	91-59-8	[0.041] 0.036	[0.013] 0.012	E	[0.19] 0.15	[0.062] 0.049	E	[4.1] 3.6	[1.3] 1.2	E	[19] 15	[6.2] 4.9	E	[41] 36	[13] 12	E	[190] 150	[62] 49	E	NA
NAPROPAMIDE	15299-99-7	420	970	E	1,200	2,800	E	7,000	16,000	E	7,000	16,000	E	420	970	E	1,200	2,800	E	30
NITROANILINE, O-	88-74-4	[42] 0.011	[8] 0.002	E	[120] 0.044	[21] 0.0079	E	[4,200] 1.1	[750] 0.2	E	[12,000] 0] 4.4	[2,100] 0.79	E	[42] 0.011	[8] 0.002	E	[120] 0.044	[21] 0.0079	E	NA
NITROANILINE, P-	100-01-6	[3.7] 3.3	[0.55] 0.49	E	[17] 14	[2.5] 2.1	E	[370] 330	[55] 49	E	[1,700] 1,400	[250] 210	E	[3.7] 3.3	[0.55] 0.49	E	[17] 14	[2.5] 2.1	E	NA

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		Residential			Nonresidential			Residential		Nonresidential		Residential			Nonresidential					
		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value					
NITROBENZENE	98-95-3	[8.3] 0.12	[3.6] 0.052	E	[23] 0.63	[10] 0.27	E	[830] 12	[360] 5.2	E	[2,300] 63	[1,000] 27	E	[8,300] 12	[3,600] 5.2	E	[10,000] 63	[10,000] 0.27	C	NA
NITROGUANIDINE	556-88-7	70	7.8	E	70	7.8	E	7,000	780	E	7,000	780	E	70	7.8	E	70	7.8	E	NA
NITROPHENOL, 2-	88-75-5	[33] 28	[6.7] 5.7	E	[93] 78	[19] 16	E	[3,300] 2,800	[670] 570	E	[9,300] 7,800	[1,900] 1,600	E	[33,000] 2,800	[6,700] 570	E	[93,000] 7,800	[19,000] 0.1600	E	NA
NITROPHENOL, 4-	100-02-7	6	4.1	E	6	4.1	E	600	410	E	600	410	E	[6,000] 600	[4,100] 410	E	[6,000] 600	[4,100] 410	E	NA
NITROPROPANE, 2-	79-46-9	0.0018	0.00029	E	0.009 3	0.0015	E	0.18	0.029	E	0.93	0.15	E	0.018	0.0029	E	0.093	0.015	E	NA
NITROSODIETHYLAMINE, N-	55-18-5	0.0000 45	0.000007 9	E	0.000 58	0.0001	E	0.0045	[0.0008] 0.0007 9	E	0.058	0.01	E	0.0004 5	[0.000 08] 0.0000 79	E	0.0058	0.001	E	NA
NITROSODIMETHYLAMINE, N-	62-75-9	0.0001 4	0.000019	E	0.001 8	0.0002 4	E	0.014	0.0019	E	0.18	0.024	E	0.0014	0.0001 9	E	0.018	0.0024	E	NA
NITROSO-DI-N-BUTYLAMINE, N-	924-16-3	[0.014] 0.0031	[0.017] 0.0038	E	[0.063] 0.016	[0.078] 0.02	E	[1.4] 0.31	[1.7] 0.38	E	[6.3] 1.6	[7.8] 2	E	[14] 0.31	[17] 0.38	E	[63] 1.6	[78] 2	E	NA
NITROSODI-N- PROPYLAMINE, N-	621-64-7	[0.01] 0.0025	[0.0014] 0.00035	E	[0.049] 0.013	[0.006 8] 0.0018	E	[1] 0.25	[0.14] 0.035	E	[4.9] 1.3	[0.68] 0.18	E	[10] 0.025	[1.4] 0.0035	E	[49] 0.13	[6.8] 0.018	E	NA
NITROSODIPHENYLAMINE, N-	86-30-6	[15] 1.9	[23] 3	E	[69] 9.6	[110] 15	E	[1,500] 190	[2,300] 300	E	[3,500] 960	[5,500] 1,500	E	[3,500] 190	[5,500] 300	E	[3,500] 960	[5,500] 1,500	E	30
NITROSO-N-ETHYLUREA, N-	759-73-9	[0.000 84] 0.0007 9	[0.00009 7] 0.000091	E	[0.013] 0.01	[0.001 5] 0.0012	E	[0.08] 0.079	[0.0097] 0.0091	E	[1.3] 1	[0.15] 0.12	E	[0.8] 0.79	[0.097] 0.091	E	[13] 10	[1.5] 1.2	E	NA
OCTYL PHTHALATE, DI-N-	117-84-0	[42] 35	10,000	C	[120] 97	10,000	C	300	10,000	C	300	10,000	C	300	10,000	C	300	10,000	C	5
OXAMYL (VYDATE)	23135-22-0	20	2.6	E	20	2.6	E	2,000	260	E	2,000	260	E	20	2.6	E	20	2.6	E	NA
PARAQUAT	1910-42-5	3	120	E	3	120	E	300	12,000	E	300	12,000	E	3	120	E	3	120	E	15

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Table 3 – Medium-Specific Concentrations (MSCs) for Organic Regulated Substances in Soil
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REGULATED SUBSTANCE	CASRN	Used Aquifers												Nonuse Aquifers						Soil Buffer Distance (feet)
		TDS ≤ 2500 mg/L						TDS > 2500 mg/L												
		Residential			Nonresidential			Residential			Nonresidential			Residential			Nonresidential			
		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		
PARATHION	56-38-2	[25] 0.1	[150] 0.59	E	[70] 0.29	[410] 1.7	E	[2,000] 10	[10,000] 59	[C] E	[2,000] 29	[10,000] 170	[C] E	[25] 0.1	[150] 0.59	E	[70] 0.29	[410] 1.7	E	15
PCBS, TOTAL (POLYCHLORINATED BIPHENYLS) (AROCLORS)	1336-36-3	0.05	9.8	E	0.05	9.8	E	5	980	E	5	980	E	0.05	9.8	E	0.05	9.8	E	10
PCB-1016 (AROCLOR)	12674-11-2	[0.037] 0.24	[10] 66	E	[0.17] 0.68	[47] 190	E	[4] 24	[1,000] 6,600	E	[17] 25	[4,700] 6,900	E	[0.04] 0.24	[10] 66	E	[0.17] 0.68	[47] 190	E	10
PCB-1221 (AROCLOR)	11104-28-2	[0.037] 0.033	[0.18] 0.16	E	[0.17] 0.14	[0.83] 0.68	E	[3.7] 3.3	[18] 16	E	[17] 14	[83] 68	E	[0.037] 0.033	[0.18] 0.16	E	[0.17] 0.14	[0.83] 0.68	E	20
PCB-1232 (AROCLOR)	11141-16-5	[0.037] 0.033	[0.14] 0.13	E	[0.17] 0.14	[0.7] 0.54	E	[3.7] 3.3	[14] 13	E	[17] 14	[66] 54	E	[0.037] 0.033	[0.14] 0.13	E	[0.17] 0.14	[0.7] 0.54	E	20
PCB-1242 (AROCLOR)	53469-21-9	[0.037] 0.033	4	E	[0.17] 0.14	[20] 17	E	[3.7] 3.3	[440] 400	E	10	1,200	E	[0.037] 0.033	4	E	[0.17] 0.14	[20] 17	E	10
PCB-1248 (AROCLOR)	12672-29-6	[0.037] 0.033	[18] 16	E	[0.17] 0.14	[81] 67	E	[3.7] 3.3	[1,800] 1,600	E	5.4	2,600	E	[0.037] 0.033	[18] 16	E	[0.17] 0.14	[81] 67	E	10
PCB-1254 (AROCLOR)	11097-69-1	[0.037] 0.069	[75] 140	E	[0.17] 0.19	[340] 380	E	[3.7] 5.7	[7,500] 10,000	[E] C	5.7	10,000	C	[0.037] 0.069	[75] 140	E	[0.17] 0.19	[340] 380	E	5
PCB-1260 (AROCLOR)	11096-82-5	[0.037] 0.033	[170] 150	E	[0.17] 0.14	[770] 630	E	[3.7] 3.3	[17,000] 15,000	E	8	36,000	E	[0.037] 0.033	[170] 150	E	[0.17] 0.14	[770] 630	E	5
PEBULATE	1114-71-2	[210] 170	[350] 290	E	[580] 490	[980] 830	E	9,200	10,000	C	9,200	10,000	C	[210] 170	[350] 290	E	[580] 490	[980] 830	E	30
PENTACHLOROBENZENE	608-93-5	[3.3] 2.8	[260] 220	E	[9.3] 7.8	[750] 620	E	74	5,900	E	74	5,900	E	74	5,900	E	74	5,900	E	10
PENTACHLOROETHANE	76-01-7	[0.81] 0.72	[3.9] 3.5	E	[3.8] 3	[19] 15	E	[81] 72	[390] 350	E	[380] 300	[1,900] 1,500	E	[0.81] 0.72	[3.9] 3.5	E	[3.8] 3	[19] 15	E	20
PENTACHLORO NITROBENZENE	82-68-8	[0.28] 0.25	[6] 5	E	1	[26] 20	E	[28] 25	[560] 500	E	44	870	E	44	870	E	44	870	E	15
PENTACHLOROPHENOL	87-86-5	0.1	5	E	0.1	5	E	10	500	E	10	500	E	100	5,000	E	100	5,000	E	10

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		Residential			Nonresidential			Residential			Nonresidential			Residential			Nonresidential			
		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		
PERFLUOROBUTANE SULFONATE (PFBS)	375-73-5	69	NA	C	190	NA	C	6,900	NA	C	10,000	NA	C	69	NA	C	190	NA	C	NA
PERFLUOROOCTANE SULFONATE (PFOS)	1763-23-1	0.007	NA	E	0.007	NA	E	0.7	NA	E	0.7	NA	E	0.007	NA	E	0.007	NA	E	NA
PERFLUOROOCTANOIC ACID (PFOA)	335-67-1	0.007	NA	E	0.007	NA	E	0.7	NA	E	0.7	NA	E	0.007	NA	E	0.007	NA	E	NA
PHENACETIN	62-44-2	[33] 30	[13] 12	E	[150] 120	[58] 46	E	[3,300] 3,000	[1,300] 1,200	E	[15,000] 12,000	[5,800] 4,600	E	[33,000] 30,000	[13,000] 12,000	E	76,000	29,000	E	NA
PHENANTHRENE	85-01-8	110	10,000	E	110	10,000	E	110	10,000	E	110	10,000	E	110	10,000	E	110	10,000	E	10
PHENOL	108-95-2	200	33	E	200	33	E	20,000	3,300	E	20,000	3,300	E	20,000	3,300	E	20,000	3,300	E	NA
PHENYL MERCAPTAN	108-98-5	[4,200] 3.5	[6,400] 5.3	E	[12] 9.7	[18] 15	E	[420] 350	[640] 530	E	[1,200] 970	[1,800] 1,500	E	[4.2] 3.5	[6.4] 5.3	E	[12] 9.7	[18] 15	E	30
PHENYLENEDIAMINE, M-	108-45-2	[25] 21	[3.5] 3	E	[70] 58	[9.9] 8.2	E	[2,500] 2,100	[350] 300	E	[7,000] 5,800	[990] 820	E	[25,000] 21,000	[3,500] 3,000	E	[70,000] 58,000	[9,900] 8,200	E	NA
PHENYLPHENOL, 2-	90-43-7	[38] 34	[550] 490	E	[180] 140	[2,600] 2,000	E	[3,800] 3,400	[55,000] 49,000	E	[18,000] 14,000	190,000	C	[38,000] 34,000	190,000	C	70,000	190,000	C	15
PHORATE	298-02-2	[0.83] 0.69	[1.8] 1.5	E	[2] 1.9	[4.9] 4.1	E	[83] 69	[180] 150	E	[230] 190	[490] 410	E	[0.83] 0.69	[1.8] 1.5	E	[2] 1.9	[4.9] 4.1	E	30
PHTHALIC ANHYDRIDE	85-44-9	[8,300] 4.2	[2,600] 1.3	E	[23,000] 18	[7,100] 5.6	E	[190,000] 420	[190,000] 130	C	[190,000] 1,800	[190,000] 560	C	[190,000] 420	[190,000] 130	C	[190,000] 1,800	[190,000] 560	C	NA
PICLORAM	1918-02-1	50	7.4	E	50	7.4	E	5,000	740	E	5,000	740	E	50	7.4	E	50	7.4	E	NA
PROMETON	1610-18-0	40	39	E	40	39	E	4,000	3,900	E	4,000	3,900	E	40	39	E	40	39	E	NA
PRONAMIDE	23950-58-5	[310] 260	[190] 160	E	[880] 730	[540] 450	E	1,500	920	E	1,500	920	E	[310] 260	[190] 160	E	[880] 730	[540] 450	E	NA
PROPACHLOR	1918-16-7	0.01	0.0046	E	0.01	0.0046	E	1	0.46	E	1	0.46	E	1	0.46	E	1	0.46	E	NA
PROPANIL	709-98-8	[21] 17	[11] 8.7	E	[58] 49	[30] 25	E	[2,100] 1,700	[1,100] 870	E	[5,800] 4,900	[3,000] 2,500	E	[21] 17	[11] 8.7	E	[58] 49	[30] 25	E	NA
PROPANOL, 2- (ISOPROPYL ALCOHOL)	67-63-0	42	7.3	E	180	31	E	4,200	730	E	10,000	3,100	E	42	[7] 7.3	E	180	31	E	NA

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		Residential			Nonresidential			Residential			Nonresidential			Residential			Nonresidential			
		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC		Generic Value	
PROPAZINE	139-40-2	1	0.5	E	1	0.5	E	100	50	E	100	50	E	1	0.5	E	1	0.5	E	NA
PROPHAM	122-42-9	10	2.4	E	10	2.4	E	1,000	240	E	1,000	240	E	10	2.4	E	10	2.4	E	NA
PROPYLBENZENE, N-	103-65-1	210	400	E	880	1,700	E	5,200	9,900	E	5,200	9,900	E	210	400	E	880	1,700	E	30
PROPYLENE OXIDE	75-56-9	[0.3] 0.27	[0.052] 0.047	E	[1.4] 1.1	[0.24] 0.19	E	[30] 27	[5.2] 4.7	E	[140] 110	[24] 19	E	[0.3] 0.27	[0.052] 0.047	E	[1.4] 1.1	[0.24] 0.19	E	NA
PYRENE	129-00-0	13	2,200	E	13	2,200	E	13	2,200	E	13	2,200	E	13	2,200	E	13	2,200	E	10
PYRETHRUM	8003-34-7	35	4.4	E	35	4.4	E	35	4.4	E	35	4.4	E	35	4.4	E	35	4.4	E	NA
PYRIDINE	110-86-1	[4.2] 3.4	[0.47] 0.39	E	[12] 9.7	[1.3] 1.1	E	[420] 350	[47] 39	E	[1,200] 970	[130] 110	E	[42] 35	[4.7] 3.9	E	[120] 97	[13] 11	E	NA
QUINOLINE	91-22-5	[0.024] 0.022	[0.081] 0.074	E	[0.11] 0.091	[0.37] 0.31	E	[2.4] 2.2	[8.1] 7.4	E	[11] 9.1	[37] 31	E	[24] 22	[81] 74	E	[110] 91	[370] 310	E	20
QUIZALOFOP (ASSURE)	76578-14-8	30	47	E	30	47	E	30	47	E	30	47	E	30	47	E	30	47	E	30
RDX	121-82-4	0.2	0.057	E	0.2	0.057	E	20	5.7	E	20	5.7	E	0.2	0.057	E	0.2	0.057	E	NA
RESORCINOL	108-46-3	[8,300] 6,900	[970] 800	E	[23,000] 19,000	[2,700] 2,200	E	190,000	[97,000] 80,000	E	190,000	190,000	C	[8,300] 6,900	[970] 800	E	[23,000] 19,000	[2,700] 2,200	E	NA
RONNEL	299-84-3	[210] 170	[330] 270	E	[580] 490	[910] 760	E	4,000	6,200	E	4,000	6,200	E	[210] 170	[330] 270	E	[580] 490	[910] 760	E	30
SIMAZINE	122-34-9	0.4	0.15	E	0.4	0.15	E	40	15	E	40	15	E	0.4	0.15	E	0.4	0.15	E	NA
STRYCHNINE	57-24-9	[1.3] 1	[1.1] 0.81	E	[3.5] 2.9	[2.8] 2.4	E	[130] 100	[110] 81	E	[350] 290	[280] 240	E	[1,300] 1,000	[1,100] 810	E	[3,500] 2,900	[2,800] 2,400	E	NA
STYRENE	100-42-5	10	24	E	10	24	E	1,000	2,400	E	1,000	2,400	E	1,000	2,400	E	1,000	2,400	E	30
TEBUTHIURON	34014-18-1	50	83	E	50	83	E	5,000	8,300	E	5,000	8,300	E	50	83	E	50	83	E	30
TERBACIL	5902-51-2	9	2.2	E	9	2.2	E	900	220	E	900	220	E	9	2.2	E	9	2.2	E	NA
TERBUFOS	13071-79-9	0.04	0.055	E	0.04	0.055	E	4	5.5	E	4	5.5	E	0.04	0.055	E	0.04	0.055	E	30
TETRACHLOROBENZENE, 1,2,4,5-	95-94-3	[1.3] 1	[6] 4.6	E	[3.5] 2.9	[16] 13	E	58	270	E	58	270	E	58	270	E	58	270	E	20
TETRACHLORODIBENZO-P- DIOXIN, 2,3,7,8- (TCDD)	1746-01-6	0.0000 03	0.032	E	0.000 003	0.032	E	0.0003	3.2	E	0.0003	3.2	E	0.0019	20	E	0.0019	20	E	5
TETRACHLOROETHANE, 1,1,1,2-	630-20-6	7	18	E	7	18	E	700	1,800	E	700	1,800	E	700	1,800	E	700	1,800	E	30
TETRACHLOROETHANE, 1,1,2,2-	79-34-5	[0.08] 0.084	0.026	E	0.43	0.13	E	[8] 8.4	2.6	E	43	13	E	[8] 8.4	2.6	E	43	13	E	NA

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		TDS ≤ 2500 mg/L						TDS > 2500 mg/L												
		Residential			Nonresidential			Residential		Nonresidential			Residential		Nonresidential					
		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		
TETRACHLOROETHYLENE (PCE)	127-18-4	0.5	0.43	E	0.5	0.43	E	50	43	E	50	43	E	5	4.3	E	5	4.3	E	NA
TETRACHLOROPHENOL, 2,3,4,6-	58-90-2	[130] 100	[2,000] 1,600	E	[350] 290	[5,500] 4,500	E	[13,000 10,000]	[190,000 160,000] 0	[C]] E	18,000	190,000	C	18,000	190,000	C	18,000	190,000	C	15
TETRAETHYL LEAD	78-00-2	[0.00042] 0.00035	[0.0052] 0.0043	E	[0.0012] 0.00097	[0.015] 0.012	E	[0.042] 0.035	[0.52] 0.43	E	[0.1] 0.097	[1.5] 1.2	E	[0.42] 0.35	[0.52] 4.3	E	[1] 0.97	[15] 12	E	15
TETRAETHYLDITHIO PYROPHOSPHATE	3689-24-5	[2.1] 1.7	[3.1] 2.5	E	[5.8] 4.9	[8.6] 7.3	E	[210] 170	[310] 250	E	[580] 490	[860] 730	E	[2.1] 1.7	[3.1] 2.5	E	[5.8] 4.9	[8.6] 7.3	E	30
TETRAHYDROFURAN	109-99-9	[2.6] 2.5	[0.57] 0.55	E	13	2.8	E	[260] 250	[57] 55	E	1,300	280	E	[2.6] 2.5	[0.57] 0.55	E	13	2.8	E	NA
THIOFANOX	39196-18-4	[1.3] 1	[0.14] 0.11	E	[3.5] 2.9	[0.39] 0.32	E	[130] 100	[14] 11	E	[350] 290	[39] 32	E	[1.3] 1	[0.14] 0.11	E	[3.5] 2.9	[0.39] 0.32	E	NA
THIRAM	137-26-8	[21] 52	[55] 140	E	[58] 150	[150] 390	E	[2,100] 3,000	[5,500] 7,800	E	3,000	7,800	E	[21] 52	[55] 140	E	[58] 150	[150] 390	E	20
TOLUENE	108-88-3	100	44	E	100	44	E	10,000	4,400	E	10,000	4,400	E	10,000	4,400	E	10,000	4,400	E	NA
TOLUIDINE, M-	108-44-1	[4.6] 4.1	[2.1] 1.9	E	[21] 17	[9.7] 7.8	E	[460] 410	[210] 190	E	[2,100] 1,700	[970] 780	E	[4.6] 4.1	[2.1] 1.9	E	[21] 17	[9.7] 7.8	E	NA
TOLUIDINE, O-	95-53-4	[4.6] 4.1	[5.2] 4.7	E	[21] 17	[24] 19	E	[460] 410	[520] 470	E	[2,100] 1,700	[2,400] 1,900	E	[4,600] 4,100	[5,200] 4,700	E	10,000	10,000	C	NA
TOLUIDINE, P-	106-49-0	[2.4] 2.2	[2.2] 2	E	[11] 9.1	[10] 8.3	E	[240] 220	[220] 200	E	[1,100] 910	[1,000] 830	E	[2.4] 2.2	[2.2] 2	E	[11] 9.1	[10] 8.3	E	NA
TOXAPHENE	8001-35-2	0.3	1.2	E	0.3	1.2	E	30	120	E	30	120	E	0.3	1.2	E	0.3	1.2	E	20
TRIALATE	2303-17-5	[54] 0.091	[280] 0.47	E	[150] 0.38	[770] 1.9	E	[400] 9.1	[2,000] 47	E	[400] 38	[2,000] 190	E	[54] 0.091	[280] 0.47	E	[150] 0.38	[770] 1.9	E	15
TRIBROMOMETHANE (BROMOFORM) (THM)	75-25-2	8	3.5	E	8	3.5	E	800	350	E	800	350	E	800	350	E	800	350	E	NA
TRICHLORO-1,2,2- TRIFLUOROETHANE, 1,1,2-	76-13-1	[6,300] 1,100	[10,000] 3,400	[C]] E	[10,000] 4,400	10,000	C	10,000	10,000	C	10,000	10,000	C	10,000	10,000	C	10,000	10,000	C	20

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		Residential		Nonresidential		Residential		Nonresidential		Residential		Nonresidential								
		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value							
TRICHLOROACETIC ACID (HAA)	76-03-9	[2] 6	[0.32] 0.97	E	[2] 6	[0.32] 0.97	E	[200] 600	[32] 97	E	[200] 600	[32] 97	E	[2] 6	[0.32] 0.97	E	[2] 6	[0.32] 0.97	E	NA
TRICHLOROBENZENE, 1,2,4-	120-82-1	7	27	E	7	27	E	700	2,700	E	700	2,700	E	[4,400] 700	[10,00 0] 2,700	[C] E	[4,400] 700	[10,00 0] 2,700	[C] E	20
TRICHLOROBENZENE, 1,3,5-	108-70-3	4	31	E	4	31	E	400	3,100	E	400	3,100	E	4	31	E	4	31	E	15
TRICHLOROETHANE, 1,1,1-	71-55-6	20	7.2	E	20	7.2	E	2,000	720	E	2,000	720	E	200	72	E	200	72	E	NA
TRICHLOROETHANE, 1,1,2-	79-00-5	0.5	0.15	E	0.5	0.15	E	50	15	E	50	15	E	5	1.5	E	5	1.5	E	NA
TRICHLOROETHYLENE (TCE)	79-01-6	0.5	0.17	E	0.5	0.17	E	50	17	E	50	17	E	5	1.7	E	5	1.7	E	NA
TRICHLOROPHENOL, 2,4,5-	95-95-4	[420] 350	[2,600] 2,100	E	[1,200] 970	[7,300] 5,900	E	[42,000] 35,000	190,00 0	C	[100,0 00] 97,000	190,00 0	C	100,00 0	190,00 0	C	100,00 0	190,00 0	C	15
TRICHLOROPHENOL, 2,4,6-	88-06-2	[4.2] 3.5	[12] 10	E	[12] 9.7	[34] 28	E	[420] 350	[1,200] 1,000	E	[1,200] 970	[3,400] 2,800	E	[4,200] 3,500	[12,00 0] 10,000	E	[12,000] 9,700	[34,00 0] 28,000	E	20
TRICHLOROPHENOXY ACETIC ACID, 2,4,5- (2,4,5-T)	93-76-5	7	1.5	E	7	1.5	E	700	150	E	700	150	E	7,000	1,500	E	7,000	1,500	E	NA
TRICHLOROPHENOXY PROPIONIC ACID, 2,4,5- (2,4,5-TP)(SILVEX)	93-72-1	5	22	E	5	22	E	500	2,200	E	500	2,200	E	5	22	E	5	22	E	20
TRICHLOROPROPANE, 1,1,2-	598-77-6	[21] 17	[3.6] 2.9	E	[58] 49	[9.9] 8.4	E	[2,100] 1,700	[360] 290	E	[5,800] 4,900	[990] 840	E	[21] 17	[3.6] 2.9	E	[58] 49	[9.9] 8.4	E	NA
TRICHLOROPROPANE, 1,2,3-	96-18-4	4	3.2	E	4	3.2	E	400	320	E	400	320	E	400	320	E	400	320	E	NA
TRICHLOROPROPENE, 1,2,3-	96-19-5	0.063	0.037	E	0.26	0.15	E	6.3	3.7	E	26	15	E	0.063	0.037	E	0.26	0.15	E	NA
TRIETHYLAMINE	121-44-8	1.5	0.36	E	6.2	1.5	E	150	36	E	620	150	E	1.5	0.36	E	6.2	1.5	E	NA
TRIETHYLENE GLYCOL	112-27-6	[8,300] 6,900	[1,000] 870	E	10,00 0	[2,900] 2,400	E	10,000	10,000	C	10,000	10,000	C	[8,300] 6,900	[1,000] 870	E	10,000	[2,900] 2,400	E	NA
TRIFLURALIN	1582-09-8	1	1.9	E	1	1.9	E	100	190	E	100	190	E	1	1.9	E	1	1.9	E	30
TRIMETHYLBENZENE, 1,3,4- (TRIMETHYLBENZENE, 1,2,4-)	95-63-6	[1.5] 13	[8.4] 73	E	[6.2] 53	[35] 300	E	[150] 1,300	[840] 7,300	E	[620] 5,300	[3,500] 10,000	[E] C	[150] 1,300	[840] 7,300	E	[620] 5,300	[3,500] 10,000	[E] C	15

¹ For other options see Section 250.308

All concentrations in mg/kg

E – Number calculated by the soil to groundwater equation is section 250.308

C – Cap

NA – The soil buffer distance option is not available for this substance

[THMs – The values listed for trihalomethanes (THMs) are the total for all THMs combined.]

[HAAs – The values listed for haloacetic acids (HAAs) are the total for all HAAs combined.]

Appendix A
Table 3 – Medium-Specific Concentrations (MSCs) for Organic Regulated Substances in Soil
B. Soil to Groundwater Numeric Values¹

REGULATED SUBSTANCE	CASRN	Used Aquifers												Nonuse Aquifers						Soil Buffer Distance (feet)
		TDS ≤ 2500 mg/L						TDS > 2500 mg/L												
		Residential			Nonresidential			Residential			Nonresidential			Residential			Nonresidential			
		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		
TRIMETHYLBENZENE, 1,3,5-	108-67-8	[42] 13	[74] 23	E	[120] 53	[210] 93	E	[4,200] 1,300	[7,400] 2,300	E	4,900	8,600	E	[42] 13	[74] 23	E	[120] 53	[210] 93	E	30
TRINITROGLYCEROL (NITROGLYCERIN)	55-63-0	0.5	0.2	E	0.5	0.2	E	50	20	E	50	20	E	50	20	E	50	20	E	NA
TRINITROTOLUENE, 2,4,6-	118-96-7	0.2	0.023	E	0.2	0.023	E	20	2.3	E	20	2.3	E	0.2	0.023	E	0.2	0.023	E	NA
VINYL ACETATE	108-05-4	42	5	E	180	21	E	4,200	500	E	10,000	2,100	E	42	5	E	180	21	E	NA
VINYL BROMIDE (BROMOETHENE)	593-60-2	0.15	0.073	E	0.78	0.38	E	15	7.3	E	78	38	E	1.5	0.73	E	7.8	3.8	E	NA
VINYL CHLORIDE	75-01-4	0.2	0.027	E	0.2	0.027	E	20	2.7	E	20	2.7	E	2	0.27	E	2	0.27	E	NA
WARFARIN	81-81-2	[1.3] 1	[3.1] 2.4	E	[3.5] 2.9	[8.4] 6.9	E	[130] 100	[310] 240	E	[350] 290	[840] 690	E	[1,300] 1,000	[3,100] 2,400	E	1,700	4,100	E	30
XYLENES (TOTAL)	1330-20-7	1,000	990	E	1,000	990	E	10,000	10,000	C	10,000	10,000	C	10,000	10,000	C	10,000	10,000	C	NA
ZINEB	12122-67-7	[210] 170	[33] 27	E	[580] 490	[92] 78	E	1,000	160	E	1,000	160	E	[210] 170	[33] 27	E	[580] 490	[92] 78	E	NA

¹ For other options see Section 250.308

All concentrations in mg/kg

E – Number calculated by the soil to groundwater equation is section 250.308

C – Cap

NA – The soil buffer distance option is not available for this substance

[THMs – The values listed for trihalomethanes (THMs) are the total for all THMs combined.]

[HAAs – The values listed for haloacetic acids (HAAs) are the total for all HAAs combined.]

Appendix A

Table 4 – Medium-Specific Concentrations (MSCs) for Inorganic Regulated Substances in Soil
A. Direct Contact Numeric Values

REGULATED SUBSTANCE	CASRN	Residential MSC 0-15 feet		Nonresidential MSCs			
				Surface Soil 0-2 feet		Subsurface Soil 2-15 feet	
ALUMINUM	7429-90-5	190,000	C	190,000	C	190,000	C
ANTIMONY	7440-36-0	88	G	1,300	G	190,000	C
ARSENIC	7440-38-2	12	G	61	G	190,000	C
BARIUM AND COMPOUNDS	7440-39-3	44,000	G	190,000	C	190,000	C
BERYLLIUM	7440-41-7	440	G	6,400	G	190,000	C
BORON AND COMPOUNDS	7440-42-8	44,000	G	190,000	C	190,000	C
CADMIUM	7440-43-9	110	G	1,600	G	190,000	C
CHROMIUM III	16065-83-1	190,000	C	190,000	C	190,000	C
CHROMIUM VI	18540-29-9	[4] 37	G	[220] 180	G	[20,000] 140,000	N
COBALT	7440-48-4	66	G	960	G	190,000	N
COPPER	7440-50-8	[8,100] 7,200	G	[120,000] 100,000	G	190,000	C
CYANIDE, FREE	57-12-5	130	G	1,900	G	190,000	C
FLUORIDE	16984-48-8	8,800	G	130,000	G	190,000	C
IRON	7439-89-6	150,000	G	190,000	C	190,000	C
LEAD	7439-92-1	[500] 420	U	[1,000] 2,500	[S] A	190,000	C
LITHIUM	7439-93-2	440	G	6,400	G	190,000	C
MANGANESE	7439-96-5	[10,000] 31,000	G	[150,000] 190,000	[G] C	190,000	C
MERCURY	7439-97-6	35	G	510	G	190,000	C
MOLYBDENUM	7439-98-7	1,100	G	16,000	G	190,000	C
NICKEL	7440-02-0	4,400	G	64,000	G	190,000	C
PERCHLORATE	7790-98-9	150	G	2,200	G	190,000	C
SELENIUM	7782-49-2	1,100	G	16,000	G	190,000	C
SILVER	7440-22-4	1,100	G	16,000	G	190,000	C
STRONTIUM	7440-24-6	130,000	G	190,000	C	190,000	C
THALLIUM	7440-28-0	[2] 2.2	G	32	G	190,000	C
TIN	7440-31-5	130,000	G	190,000	C	190,000	C
VANADIUM	7440-62-2	15	G	220	G	190,000	C
ZINC	7440-66-6	66,000	G	190,000	C	190,000	C

All concentrations in mg/kg

R – Residential

NR – Non-Residential

G – Ingestion

N – Inhalation

C- Cap

U – **[UBK Model] IEUBK Model**

[S – SEGH Model] A – Adult Lead Model

NA – Not Applicable

Appendix A
Table 4 – Medium-Specific Concentrations (MSCs) for Inorganic Regulated Substances in Soil
B. Soil to Groundwater Numeric Values¹

REGULATED SUBSTANCE	CASRN	Used Aquifers								Nonuse Aquifers				Soil Buffer Distance (feet)
		TDS < = 2500 mg/L				TDS > 2500 mg/L								
		R		NR		R		NR		R		NR		
		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	
[ALUMINUM]	[7429-90-5]	[NA]	[NA]	[NA]	[NA]	[NA]	[NA]	[NA]	[NA]	[NA]	[NA]	[NA]	[NA]	[NA]
ANTIMONY	7440-36-0	0.6	27	0.6	27	60	2,700	60	2,700	600	27,000	600	27,000	15
ARSENIC	7440-38-2	1	29	1	29	100	2,900	100	2,900	1,000	29,000	1,000	29,000	15
BARIUM AND COMPOUNDS	7440-39-3	200	8,200	200	8,200	20,000	190,000	20,000	190,000	190,000	190,000	190,000	190,000	15
BERYLLIUM	7440-41-7	0.4	320	0.4	320	40	32,000	40	32,000	400	190,000	400	190,000	10
BORON AND COMPOUNDS	7440-42-8	600	1,900	600	1,900	60,000	190,000	60,000	190,000	190,000	190,000	190,000	190,000	30
CADMIUM	7440-43-9	0.5	38	0.5	38	50	3,800	50	3,800	500	38,000	500	38,000	15
CHROMIUM (III)	16065-83-1	10	190,000	10	190,000	1,000	190,000	1,000	190,000	10,000	190,000	10,000	190,000	5
CHROMIUM (VI)	18540-29-9	10	190	10	190	1,000	19,000	1,000	19,000	10,000	190,000	10,000	190,000	15
COBALT	7440-48-4	1	[59] <u>45</u>	[4] <u>2.9</u>	[160] <u>130</u>	[130] <u>100</u>	[5,900] <u>4,500</u>	[350] <u>290</u>	[16,000] <u>13,000</u>	[1,300] <u>1,000</u>	[59,000] <u>45,000</u>	[3,500] <u>2,900</u>	[160,000] <u>130,000</u>	15
COPPER	7440-50-8	[NA] <u>100</u>	[NA] <u>43,000</u>	[NA] <u>100</u>	[NA] <u>43,000</u>	[NA] <u>10,000</u>	[NA] <u>190,000</u>	[NA] <u>10,000</u>	[NA] <u>190,000</u>	[NA] <u>100,000</u>	[NA] <u>190,000</u>	[NA] <u>100,000</u>	[NA] <u>190,000</u>	[NA] <u>10</u>
CYANIDE, FREE	57-12-5	20	200	20	200	2,000	20,000	2,000	20,000	20,000	190,000	20,000	190,000	20
FLUORIDE	16984-48-8	400	44	400	44	40,000	4,400	40,000	4,400	190,000	44,000	190,000	44,000	NA
[IRON]	[7439-89-6]	[NA]	[NA]	[NA]	[NA]	[NA]	[NA]	[NA]	[NA]	[NA]	[NA]	[NA]	[NA]	[NA]
LEAD	7439-92-1	0.5	450	0.5	450	50	45,000	50	45,000	500	190,000	500	190,000	10
LITHIUM	7439-93-2	[8] <u>6.9</u>	[2,500] <u>2,100</u>	[23] <u>19</u>	[6,900] <u>5,700</u>	[830] <u>690</u>	190,000	[2,300] <u>1,900</u>	190,000	[8,300] <u>6,900</u>	190,000	[23,000] <u>19,000</u>	190,000	10
MANGANESE	7439-96-5	30	2,000	30	2,000	3,000	190,000	3,000	190,000	30,000	190,000	30,000	190,000	15
MERCURY	7439-97-6	0.2	10	0.2	10	20	1,000	20	1,000	200	10,000	200	10,000	15
MOLYBDENUM	7439-98-7	4	650	4	650	400	65,000	400	65,000	4,000	190,000	4,000	190,000	15
NICKEL	7440-02-0	10	650	10	650	1,000	65,000	1,000	65,000	10,000	190,000	10,000	190,000	15
PERCHLORATE	7790-98-9	1.5	0.17	1.5	0.17	150	17	150	17	1,500	170	1,500	170	NA
SELENIUM	7782-49-2	5	26	5	26	500	2,600	500	2,600	5,000	26,000	5,000	26,000	20
SILVER	7440-22-4	10	84	10	84	1,000	8,400	1,000	8,400	10,000	84,000	10,000	84,000	20

¹For other options see Section 250.308

All concentrations in mg/kg

R – Residential

NR – Non-Residential

NA – Not Applicable

Appendix A
Table 4 – Medium-Specific Concentrations (MSCs) for Inorganic Regulated Substances in Soil
B. Soil to Groundwater Numeric Values¹

REGULATED SUBSTANCE	CASRN	Used Aquifers								Nonuse Aquifers				Soil Buffer Distance (feet)
		TDS < = 2500 mg/L				TDS > 2500 mg/L								
		R		NR		R		NR		R		NR		
		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	
STRONTIUM	7440-24-6	400	44	400	44	40,000	4,400	40,000	4,400	190,000	44,000	190,000	44,000	NA
THALLIUM	7440-28-0	0.2	14	0.2	14	20	1,400	20	1,400	200	14,000	200	14,000	15
TIN	7440-31-5	[2,500] 2,100	190,000	[7,000] 5,800	190,000	190,000	190,000	190,000	190,000	190,000	190,000	190,000	190,000	10
VANADIUM	7440-62-2	[0.29] 0.24	[290] 240	[0.82] 0.68	[820] 680	[29] 24	[29,000] 24,000	[82] 68	[82,000] 68,000	[290] 240	190,000	[820] 680	190,000	5
ZINC	440-66-6	200	12,000	200	12,000	20,000	190,000	20,000	190,000	190,000	190,000	190,000	190,000	15

¹For other options see Section 250.308

All concentrations in mg/kg

R – Residential

NR – Non-Residential

NA – Not Applicable

Appendix A
Table 5 – Physical and Toxicological Properties
A. Organic Regulated Substances

Regulated Substance	CAS	RfDo (mg/kg-d)		CSFo (mg/kg-d) ⁻¹		RfCi (mg/m³)		IUR (µg/m³) ⁻¹		Koc	VOC?	Aqueous Sol (mg/L)	Aqueous Sol Reference ¹	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K)(yr ⁻¹)
ACENAPHTHENE	83-32-9	0.06	I							4900	X	3.8	1,5,6	17220	20833		279	1.24
ACENAPHTHYLENE	208-96-8	0.06	S							4500	X	16.1	5,6,7	16493	19776		280	2.11
ACEPHATE	30560-19-1	[0.004] 0.0012	[I] O	[0.0087]	[I]					3		818000	6				340	
ACETALDEHYDE	75-07-0					0.009	I	0.0000022	I	4.1	X	1000000	1	[13100] 13010	[15100] 14945	X	20	
ACETONE	67-64-1	0.9	I			31	D			0.31	X	1000000	1	[13100] 13007	[15000] 14942	X	56	18.07
ACETONITRILE	75-05-8					0.06	I			0.5	X	1000000	1	[13100] 13020	[15000] 14958	X	82	4.50
ACETOPHENONE	98-86-2	0.1	I							170		5500	1			X	203	
ACETYLAMINO-FLUORENE, 2- (2AAF)	53-96-3			3.8	C			0.0013	C	1600		10.13	7				303	0.69
ACROLEIN	107-02-8	0.0005	I			0.00002	I			0.56	X	208000	1,2,4	[13100] 13012	[15100] 14948	X	53	4.50
ACRYLAMIDE	79-06-1	0.002	I	0.5	I	0.006	I	0.0001	I	25	X	2151000	4	[13000] 12981	[15000] 14906		193	
ACRYLIC ACID	79-10-7	0.5	I			0.001	I			29	X	1000000	2	[13000] 12978	[14900] 14902	X	141	1.39
ACRYLONITRILE	107-13-1	0.04	D	0.54	I	0.002	I	0.000068	I	11	X	73500	1	[13100] 13004	[15100] 14939	X	77	5.50
ALACHLOR	15972-60-8	0.01	I	0.056	C					110		140	2				378	
ALDICARB	116-06-3	0.001	I							22		6000	2				287	0.40
ALDICARB SULFONE	1646-88-4	0.001	I							10		8000	5				317	
ALDICARB SULFOXIDE	1646-87-3	0.001	M							0.22		330000	5				307	
ALDRIN	309-00-2	0.00003	I	17	I			0.0049	I	48000		0.02	4,5,6				330	0.22
ALLYL ALCOHOL	107-18-6	0.005	I			0.0001	X			3.2	X	1000000	2	[13100] 13003	[15000] 14937	X	97	18.07
AMETRYN	834-12-8	0.009	I							389		185	5				345	
AMINOBIPHENYL, 4-	92-67-1			21	C			0.006	C	110		1200	5				302	18.07
AMITROLE	61-82-5			0.94	C			0.00027	C	120		280000	4				258	0.69
AMMONIA	7664-41-7	[0.97] 0.85	H			[0.1] 0.5	I			3	X	310000	2,5,7	[13100] 13098	[15000] 15059	X	-33	
AMMONIUM SULFAMATE	7773-06-0	0.2	I							3		2160000	10				603	
ANILINE	62-53-3	0.007	P	0.0057	I	0.001	I	0.0000016	C	190	X	33800	1	[13000] 12959	[14900] 14876	X	184	
ANTHRACENE	120-12-7	0.3	I							21000	X	0.066	1,5,6,7,8,9	30838	44562		340	0.28
ATRAZINE	1912-24-9	0.035	I	0.23	C					130		70	2,4,5				313	

¹Aqueous solubility references are keyed to the numbered list found at §250.304(f). Where there are multiple sources cited. The table value is the median of the values in the individual references.

Toxicity Value Sources:

C = California EPA [Cancer
Potency Factor]

D = ATSDR Minimal Risk Level

H = Health Effects Assessment

Summary Table (HEAST)

I = Integrated Risk information

System (IRIS)

M = EPA Drinking Water

Regulations and Health Advisories

[N = EPA NCEA Provisional Values] O =
EPA Office of Pesticide Programs Human
Health Benchmarks for Pesticides

P = EPA Provisional Peer-Reviewed Toxicity Value

S = surrogate

[T = TEF]

TE = TERA ITER Peer-Reviewed Value

X = EPA Provisional Peer-Reviewed Toxicity
Value Appendix

Appendix A
Table 5 – Physical and Toxicological Properties
A. Organic Regulated Substances

Regulated Substance	CAS	RfDo (mg/kg-d)		CSFo (mg/kg-d) ⁻¹		RfCi (mg/m³)		IUR (µg/m³) ⁻¹		Koc	VOC?	Aqueous Sol (mg/L)	Aqueous Sol Reference ¹	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K)(yr ⁻¹)
AZINPHOS-METHYL (GUTHION)	86-50-0	[0.003] 0.0015	[D] O			0.01	D			407.4		31.5	1, 2				421	
BAYGON (PROPOXUR)	114-26-1	0.004	I							31		2000	2,4,5				decomp.	4.50
BENOMYL	17804-35-2	0.05	I	0.0024	O					1,900		2	5				520	
BENTAZON	25057-89-0	0.03	I							13		500	2				415	
BENZENE	71-43-2	0.004	I	0.055	I	0.03	I	0.0000078	I	58	X	1780.5	1,2,3,4	[13100] 13053	15000	X	81	0.35
BENZIDINE	92-87-5	0.003	I	230	I			0.067	I	530,000		520	1,2,4				400	15.81
BENZO[A]ANTHRACENE	56-55-3			0.7	X			0.00011	C	350000		0.011	1,5,6				438	0.19
BENZO[A]PYRENE	50-32-8	0.0003	I	[7.3] 1	I	0.000002	I	[0.0011] 0.0006	[C]I	910000		0.0038	1,5,6				495	0.24
BENZO[B]FLUORANTHENE	205-99-2			1.2	C			0.00011	C	550000		0.0012	5,6,7				357	0.21
BENZO[GHI]PERYLENE	191-24-2	0.06	S							2800000		0.00026	1,5,6				500	0.19
BENZO[K]FLUORANTHENE	207-08-9			1.2	C			0.00011	C	4400000		0.00055	5,6,7				480	0.06
BENZOIC ACID	65-85-0	4	I							32	X	2700	2,3,4,5	12985	14913		249	
BENZOTRICHLORIDE	98-07-7			13	I					920	X	53	1,5,13	13494	15606	X	221	121413.60
BENZYL ALCOHOL	100-51-6	0.1	P							100		40000	1,2,3			X	205	
BENZYL CHLORIDE	100-44-7	0.002	P	0.17	I	0.001	P	0.000049	C	190	X	493	1	[13000] 12940	[15000] 14846	X	179	20.90
BETA PROPIOLACTONE	57-57-8			14	C			0.004	C	4	X	370000	2	[13100] 13008	[15000] 14937	X	162	0.01
BHC, ALPHA	319-84-6	0.008	D	6.3	I			0.0018	I	1800		1.7	4,5,6,7				288	0.94
BHC, BETA-	319-85-7			1.8	I			0.00053	I	2300		0.1	6				304	1.02
BHC, GAMMA (LINDANE)	58-89-9	0.0003	I	1.1	C			0.00031	C	1400		7.3	4,5,6				323	1.05
BIPHENYL, 1,1-	92-52-4	0.05	I	0.008	[X] I	0.0004	X			1,700	X	7.2	1	14027	16325		255	18.07
BIS(2-CHLORO ETHOXY)METHANE	111-91-1	0.003	P							61		100500	4,6,7,9,10,11			X	218	
BIS(2-CHLOROETHYL)ETHER	111-44-4			1.1	I			0.00033	I	76	X	10200	1,4,5	[13000] 12942	[14900] 14849	X	179	0.69
BIS(2-CHLORO-ISOPROPYL)ETHER	108-60-1	0.04	I	0.07	H			0.00001	H	62	X	1700	5	[13000] 12947	[14900] 14856	X	189	0.69
BIS(CHLOROMETHYL)ETHER	542-88-1			220	I			0.062	I	16	X	22000	6	[13100] 12992	[15100] 14922	X	105	57270.57
BIS[2-ETHYLHEXYL] PHTHALATE	117-81-7	0.02	I	0.014	I			0.0000024	C	87000		0.285	4,5,6			X	384	0.65
BISPHENOL A	80-05-7	0.05	I							1,500		120	4				220	0.69

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BROMACIL	314-40-9	0.1	M							58		815	2				421	
BROMOBENZENE	108-86-1	0.008	I			0.06	I			268	X	445	1,2	12954	14866	X	156.1	
BROMOCHLOROMETHANE	74-97-5	0.01	M			0.04	X			27	X	16700	4	[13100] 13007	[15000] 14942	X	68	
BROMODICHLOROMETHANE	75-27-4	0.02	I	0.062	I			0.000037	C	93	X	4500	6	[13100] 12984	[15000] 14910	X	87	
BROMOMETHANE	74-83-9	0.0014	I			0.005	I			170	X	17500	2	[13100] 13039	[15000] 14981	X	4	6.66
BROMOXYNIL	1689-84-5	[0.02] 0.015	[I] O	0.103	O					300		130	2				329	
BROMOXYNIL OCTANOATE	1689-99-2	[0.02] 0.015	[I] O	0.103	O					18,000		0.08	12				414	5.75
BUTADIENE, 1,3-	106-99-0			[3.4] 0.6	C	0.002	I	0.00003	I	120	X	735	1	[13200] 13115	[15000] 15041	X	-4.5	4.50
BUTYL ALCOHOL, N-	71-36-3	0.1	I							3.2	X	74000	1	[13000] 12998	[14900] 14930	X	118	4.68
BUTYLATE	2008-41-5	0.05	I							540	X	45	2	[13200] 13430	[15200] 15519	X	138	
BUTYLBENZENE, N-	104-51-8	0.05	P							2,500	X	15	1,6,7	[13100] 12943	[15100] 14851	X	183	
BUTYLBENZENE, SEC-	135-98-8	0.1	X							890	X	17	1,6,7	[13100] 12983	[15000] 14910	X	174	
BUTYLBENZENE, TERT-	98-06-6	0.1	X							680	X	30	1,6,7	[13100] 12979	[15000] 14904	X	169	
BUTYLBENZYL PHTHALATE	85-68-7	0.2	I	0.0019	P					34000		2.69	4,5,6			X	370	1.39
CAPTAN	133-06-2	0.13	I	0.0023	C			0.00000066	C	200		0.5	4				259	589.39
CARBARYL	63-25-2	0.1	I							190		120	2,4,5				315	4.22
CARBAZOLE	86-74-8			0.02	H					2,500		1.2	1,5,6				355	
CARBOFURAN	1563-66-2	0.005	I							43		700	2				311	
CARBON DISULFIDE	75-15-0	0.1	I			0.7	I			300	X	2100	1,2,3	[13100] 13022	[15100] 14961	X	46	
CARBON TETRACHLORIDE	56-23-5	0.004	I	0.07	I	0.1	I	0.000006	I	160	X	795	1,2,3	[13100] 13117	[15000] 15083	X	77	0.07
CARBOXIN	5234-68-4	0.1	I							260		170	5,6,8				407	
CHLORAMBEN	133-90-4	0.015	I							20		700	2				210	
CHLORDANE	57-74-9	0.0005	I	0.35	I	0.0007	I	0.0001	I	98000		0.056	4,5,7				351	0.09

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CHLORO-1,1-DIFLUOROETHANE, 1-	75-68-3					50	I			22	X	1400	4	[13100] 13117	[15000] 15041	X	-9	
CHLORO-1-PROPENE, 3- (ALLYL CHLORIDE)	107-05-1			0.021	C	0.001	I	0.000006	C	48	X	3300	1,3,5,7,10	[13100] 13142	[15000] 15116	X	45	18.07
CHLOROACETALDEHYDE	107-20-0			[0.3] 0.27	X					3.2	X	1000000	9	[13000] 13004	[14900] 14938	X	85	
CHLOROACETOPHENONE, 2-	532-27-4					0.00003	I			76		1100	3				247	4.50
CHLOROANILINE, P-	106-47-8	0.004	I	0.2	P					460	X	3900	1	13139	15127		232	
CHLOROBENZENE	108-90-7	0.02	I			0.05	P			200	X	490	3	[13100] 12992	[15000] 14922	X	132	0.84
CHLOROBENZILATE	510-15-6	0.02	I	0.11	C			0.000031	C	2600		13	4				415	3.60
CHLOROBUTANE, 1-	109-69-3	0.04	P							580	X	680	1,2,3,4	[13200] 13007	[15000] 14942	X	79	
CHLORODIBROMOMETHANE	124-48-1	0.02	I	0.084	I			[0.000027]	[C]	83	X	4200	4,6,7,9	[13100] 12973	[15100] 14895	X	116	1.39
CHLORODIFLUOROMETHANE	75-45-6					50	I			59	X	2899	4	[13200] 13141	[15000] 15113	X	-41	
CHLOROETHANE	75-00-3	[0.4]	[N]	[0.0029]	[N]	10	I			42	X	5700	1	[13100] 13101	[15000] 15038	X	12	4.50
CHLOROFORM	67-66-3	0.01	I	[0.019] 0.031	C	[0.098] 0.3	[D] C	0.000023	I	56	X	8000	1,2,3	[13100] 13044	[15000] 14988	X	61	0.01
CHLORONAPHTHALENE, 2-	91-58-7	0.08	I							8500	X	11.7	1	19021	23532		256	
CHLORONITROBENZENE, P-	100-00-5	[0.001] 0.0007	P	[0.0063] 0.06	P	[0.0006] 0.002	P			480	X	220	1	13190	15196		242	
CHLOROPHENOL, 2-	95-57-8	0.005	I							400	X	24000	1,3,4	[12900] 13053	[14900] 15009	X	175	
CHLOROPRENE	126-99-8	0.02	H			0.02	I	0.0003	I	50	X	1736	9	[13100] 13116	[15000] 15075	X	59	0.69
CHLOROPROPANE, 2-	75-29-6					[0.1] 0.1001	H			260	X	3100	1,3,5	[13200] 13055	[15000] 15002	X	47	
CHLOROTHALONIL	1897-45-6	0.015	I	[0.0031] 0.017	C			[0.00000089]	[C]	980		0.6	2				350	
CHLOROTOLUENE, O-	95-49-8	0.02	I							760	X	422	1,4,5	[13100] 12941	[15000] 14848	X	159	
CHLOROTOLUENE, P-	106-43-4	0.02	X							375	X	106	12	[13000] 12961	[14900] 14877	X	162	
CHLORPYRIFOS	2921-88-2	0.001	D							4600		1.12	2,4,6,7				377	

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CHLORSULFURON	64902-72-3	[0.05] 0.02	[I] O							11		192	2,5,6,8,9				531	
CHLORTHAL-DIMETHYL (DACTHAL) (DCPA)	1861-32-1	0.01	I							6,500		0.5	2,5,7				360	1.37
CHRYSENE	218-01-9			0.12	C			0.000011	C	490000		0.0019	1				448	0.13
CRESOL(S)	1319-77-3	0.1	D			0.06	C			25	X	20000	2	[13000] 12976	[14900] 14899	X	139	5.16
CRESOL, DINITRO-O-, 4,6-	534-52-1	[0.0001] 0.00008	[P] X							257	X	150	4	13025	14970		312	6.02
CRESOL, O- (METHYLPHENOL, 2-)	95-48-7	0.05	I							22	X	2500	3,5,6	[13000] 12974	[14900] 14896		191	18.07
CRESOL, M (METHYLPHENOL, 3-)	108-39-4	0.05	I							35		2500	2			X	202	5.16
CRESOL, P (METHYLPHENOL, 4-)	106-44-5	0.005	H							49		22000	6				202	9.03
CRESOL, P-CHLORO-M-	59-50-7	0.1	X							780		3846	2				235	
CROTONALDEHYDE	4170-30-3	0.001	S	1.9	S					5.6	X	180000	3	[13000] 12998	[14900] 14931	X	104	18.07
CROTONALDEHYDE, TRANS-	123-73-9	0.001	P	1.9	H					6.1	X	156000	1	[13100] 13006	[15100] 14940	X	104	18.07
CUMENE (ISOPROPYL BENZENE)	98-82-8	0.1	I			0.4	I			2800	X	50	1,5,6	[13100] 12940	[15100] 14846	X	152	15.81
CYANAZINE	21725-46-2	0.002	[M] H	0.84	H					199		171	2,5				369	
CYCLOHEXANE	110-82-7					6	I			479	X	55	1,2,4,5,6	[13100] 13140	[15100] 15112	X	81	
CYCLOHEXANONE	108-94-1	5	I			0.7	P			66	X	36500	1,2,4,5	[13000] 12949	[14900] 14858	X	157	
CYFLUTHRIN	68359-37-5	0.025	I							130,000		0.001	2				448	
CYROMAZINE	66215-27-8	[0.0075] 0.5	[I] O							1,200		11000	12				222	
DDD, 4,4'-	72-54-8	0.003	X	0.24	I			0.000069	C	44000		0.16	5,6,7				350	0.02
DDE, 4,4'-	72-55-9	0.0003	X	0.34	I			0.000097	C	87000		0.04	5				348	0.02
DDT, 4,4'-	50-29-3	0.0005	I	0.34	I			0.000097	I	240000		0.0055	5,6,7				260	0.02
DI(2-ETHYLHEXYL)ADIPATE	103-23-1	0.6	I	0.0012	I					47,000,000		200	5			X	214	4.50
DIALATE	2303-16-4			0.061	H					190		40	2,4,6,8			X	328	1.39
DIAMINOTOLUENE, 2,4-	95-80-7			4	C			0.0011	C	36		7470	4				292	0.69
DIAZINON	333-41-5	0.0007	D							500		50	2,4,6,8			X	306	
DIBENZO[A,H]ANTHRACENE	53-70-3			4.1	C			0.0012	C	1800000		0.0006	1,5,6				524	0.13

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DIBENZOFURAN	132-64-9	0.001	X							10233	X	4.48	1,6,7,9	23885	31445		287	7.23
DIBROMO-3-CHLOROPROPANE, 1,2-	96-12-8	0.0002	P	0.8	P	0.0002	I	0.006	P	140	X	1000	4	[13000] 12946	[15000] 14856	X	196	0.69
DIBROMOBENZENE, 1,4-	106-37-6	0.01	I							1,600		20	1				220	
DIBROMOETHANE, 1,2- (ETHYLENE DIBROMIDE)	106-93-4	0.009	I	2	I	0.009	I	0.0006	I	54	X	4150	1,2,3,5	[13100] 12972	[15100] 14893	X	131	2.11
DIBROMOMETHANE	74-95-3	0.01	H			0.004	X			110	X	11400	1	[13100] 12948	[15100] 14858	X	96	4.50
DIBUTYL PHTHALATE, N-	84-74-2	0.1	I							1600		400	1,2,3			X	340	11.00
DICAMBA	1918-00-9	0.03	I							0.27		5600	4,5,6,8,10				329	
DICHLOROACETIC ACID	76-43-6	0.004	I	0.05	I					8.1	X	1000000	1	[12900] 12994	[14900] 14924	X	194	
DICHLORO-2-BUTENE, 1,4-	764-41-0							0.0042	P	180	X	850	9	[13100] 12943	[15000] 14851	X	156	
DICHLORO-2-BUTENE, TRANS-1,4-	110-57-6							0.0042	[S]P	215	X	850	9	[12900] 12940	[14800] 14847	X	155	
DICHLOROBENZENE, 1,2-	95-50-1	0.09	I			0.2	H			350	X	147	1,4,5,6,7	[13100] 12946	[15100] 14855	X	180	0.69
DICHLOROBENZENE, 1,3-	541-73-1	0.09	M							360	X	106	1	[13100] 12942	[15100] 14849	X	173	0.69
DICHLOROBENZENE, P-	106-46-7	0.07	D	0.0054	C	0.8	I	0.000011	C	510	X	82.9	1	[12900] 12943	[14900] 14850		174	0.69
DICHLOROBENZIDINE, 3,3'-	91-94-1			0.45	I			0.00034	C	22000		3.11	4,5,6				368	0.69
DICHLORODIFLUOROMETHANE (FREON 12)	75-71-8	0.2	I			0.1	X			360	X	280	1	[13200] 13115	[15000] 15041	X	-30	0.69
DICHLOROETHANE, 1,1-	75-34-3	0.2	P	0.0057	C	0.5	H	0.0000016	C	52	X	5000	2	[13100] 13051	[15000] 14998	X	57	0.16
DICHLOROETHANE, 1,2-	107-06-2	0.006	X	0.091	I	0.007	P	0.000026	I	38	X	8412	1,2,3,4	[13100] 13010	[15000] 14945	X	83	0.07
DICHLOROETHYLENE, 1,1-	75-35-4	0.05	I			0.2	I			65	X	2500	1,4,5	[13100] 13145	[15000] 15119	X	32	0.19
DICHLOROETHYLENE, CIS-1,2-	156-59-2	0.002	I							49	X	3500	1	[13100] 13037	[15000] 14979	X	60	0.01
DICHLOROETHYLENE, TRANS-1,2-	156-60-5	0.02	I			[0.06]	[P]			47	X	6300	1	[13100] 13053	15000	X	48	0.01
DICHLOROMETHANE (METHYLENE CHLORIDE)	75-09-2	0.006	I	0.002	I	0.6	I	0.00000001	I	16	X	20000	1,2,3	[13100] 13071	[15000] 15023	X	40	4.50
DICHLOROPHENOL, 2,4-	120-83-2	0.003	I							160		4500	1				210	5.88

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Regulated Substance	CAS	RfDo (mg/kg-d)		CSFo (mg/kg-d) ⁻¹		RfCi (mg/m³)		IUR (µg/m³) ⁻¹		Koc	VOC?	Aqueous Sol (mg/L)	Aqueous Sol Reference ¹	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K)(yr ⁻¹)
DICHLOROPHOXYACETIC ACID, 2,4-(2,4-D)	94-75-7	0.01	I							59		677	4,5,6,7,10				215	1.39
DICHLOROPROPANE, 1,2-	78-87-5	[0.09] 0.04	[D] P	[0.036] 0.037	[C] P	0.004	I	[0.00001] 0.0037	[C] P	47	X	2700	1,3,4	[13100] 13016	[15000] 14954	X	96	0.10
DICHLOROPROPENE, 1,3-	542-75-6	0.03	I	0.1	I	0.02	I	0.000004	I	27	X	2700	6	[13100] 13038	[15000] 14981	X	108	22.38
DICHLOROPROPIONIC ACID, 2,2-(DALAPON)	75-99-0	0.03	I							62	X	500000	5	[13000] 12949	[14900] 14860	X	190	2.11
DICHLORVOS	62-73-7	0.0005	I	0.29	I	0.0005	I	0.000083	C	50		10000	2,4,5			X	234	
DICYCLOPENTADIENE	77-73-6	0.008	P			0.0003	X			810	X	40	5	[13000] 12957	[14900] 14870		167	
DIELDRIN	60-57-1	0.00005	I	16	I			0.0046	I	11000		0.17	4,5,6				385	0.12
DIETHANOLAMINE	111-42-2	0.002	P			0.0002	P			4		1000000	2,3,9			X	269	
DIETHYL PHTHALATE	84-66-2	0.8	I							81		1080	4,5,6			X	298	2.25
DIFLUBENZURON	35367-38-5	0.02	I							1,000		0.2	2				201	
DIISOPROPYL METHYLPHOSPHONATE	1445-75-6	0.08	I							10	X	160000	9	[13000] 12978	[14900] 14903	X	190	
DIMETHOATE	60-51-5	[0.0002] 0.0022	[I] O							110		25000	4				361	2.26
DIMETHOXYBENZIDINE, 3,3-	119-90-4			1.6	P					1,300		60	9				331	0.69
DIMETHRIN	70-38-2	0.3	M							27,000		0.036	13				353	
DIMETHYLAMINOAZOBENZENE, P-	60-11-7			4.6	C			0.0013	C	1000		13.6	7				335	4.50
DIMETHYLANILINE, N,N-	121-69-7	0.002	I	0.027	P					180	X	1200	5,6,7,9	[13000] 12944	[14900] 14852	X	192	0.69
DIMETHYLBENZIDINE, 3,3-	119-93-7			11	P					22,000		1300	10				300	18.07
DIMETHYL METHYLPHOSPHONATE	756-79-6	0.06	P	0.0017	P					5	X	1000000	14	[13000] 12998	[14900] 14930	X	181	
DIMETHYLPHENOL, 2,4-	105-67-9	0.02	I							130		7869	1,4,6,7			X	211	18.07
DINITROBENZENE, 1,3-	99-65-0	0.0001	I							150		523	3,5,6,7				291	0.69
DINITROPHENOL, 2,4-	51-28-5	0.002	I							0.79		5600	2,4,5,6,7				332	0.48
DINITROTOLUENE, 2,4-	121-14-2	0.002	I	0.31	C			0.000089	C	51		270	4,5,6				300	0.69
DINITROTOLUENE, 2,6- (2,6-DNT)	606-20-2	0.0003	X	1.5	P					74		200	6				300	0.69
DINOSEB	88-85-7	0.001	I							120		50	5				223	1.03
DIOXANE, 1,4-	123-91-1	0.03	I	0.1	I	[0.11] 0.03	[D] I	[0.0000077] 0.000005	[C] I	7.8	X	1000000	5	[13000] 12996	[14900] 14928	X	101	0.69
DIPHENAMID	957-51-7	0.03	I							200		260	5				210	

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Regulated Substance	CAS	RfDo (mg/kg-d)		CSFo (mg/kg-d) ⁻¹		RfCi (mg/m³)		IUR (µg/m³) ⁻¹		Koc	VOC?	Aqueous Sol (mg/L)	Aqueous Sol Reference ¹	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K)(yr ⁻¹)
DIPHENYLAMINE	122-39-4	[0.025] 0.1	[I] O							190		300	3				302	4.50
DIPHENYLHYDRAZINE, 1,2-DIQUAT	122-66-7			0.8	I			0.00022	I	660	X	0.252	6	13375	15446		309	0.69
DISULFOTON	85-00-7	0.0022	I							2.6		700000	5				355	
DITHIANE, 1,4-DIURON	298-04-4	0.00004	I							1000		25	4,5,6			X	332	6.02
ENDOSULFAN	505-29-3	0.01	I							22.7	X	3000	15	[13000] 12976	[14900] 14899		199	
ENDOSULFAN I (ALPHA)	330-54-1	0.002	I							300		42	2,4,5				354	
ENDOSULFAN II (BETA)	115-29-7	0.006	I							2,000		0.48	4				401	2.78
ENDOSULFAN SULFATE	959-98-8	0.006	S							2000		0.5	6				401	
ENDOTHALL	33213-65-9	0.006	S							2300		0.45	6				390	
ENDRIN	1031-07-8	0.006	S							2300		0.117	7,9				409	
EPICHLOROHYDRIN	145-73-3	0.02	I							120		100000	2				350	
ETHEPHON	72-20-8	0.0003	I							11000		0.23	4,6,7,9				245	
ETHION	106-89-8	0.006	P	0.0099	I	0.001	I	0.0000012	I	35	X	65800	1,3,4	[13000] 12972	[14900] 14893	X	116	4.50
ETHOXYETHANOL, 2- (EGEE)	16672-87-0	0.005	I							2		1240000	12				201	
ETHYL ACETATE	563-12-2	0.0005	I							8700		0.85	4,6,9,10			X	415	
ETHYL ACRYLATE	110-80-5	0.09	P			0.2	I			12	X	1000000	2	[13200] 13100	[15000] 15040	X	136	4.50
ETHYL BENZENE	141-78-6	0.9	I			0.07	P			59	X	80800	1,2,3,4,5,6	[13100] 12963	[15000] 14881	X	77	18.07
ETHYL DIPROPYLTHIOCARBAMATE, S- (EPTC)	140-88-5	0.005	P	0.048	H	0.008	P			110	X	15000	1,2,6	[13100] 12951	[15100] 14863	X	100	18.07
ETHYL ETHER	100-41-4	0.1	I	0.011	C	1	I	0.0000025	C	220	X	161	1,3,4	[13100] 13004	15000	X	136	1.11
ETHYL METHACRYLATE	759-94-4	[0.025] 0.05	[I] O							240	X	365	2	[12900] 13056	[14900] 15014	X	127	
ETHYLENE CHLORHYDRIN	60-29-7	0.2	I							68	X	60400	1	[13100] 12982	[15100] 14908	X	35	
ETHYLENE GLYCOL	97-63-2	0.09	H			0.3	P			22	X	4635.5	9,10	[13100] 12991	[15000] 14921	X	117	
ETHYLENE THIIOUREA (ETU)	107-07-3	0.02	P							1	X	1000000	9	[13000] 13006	[14900] 14941	X	128	
	107-21-1	2	I			0.4	C			4.4	X	1000000	2	[13100] 13004	[15100] 14938	X	198	10.54
	96-45-7	0.00008	I	0.045	C			0.000013	C	0.23		20000	2				347	4.50

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Regulated Substance	CAS	RfDo (mg/kg-d)		CSFo (mg/kg-d) ⁻¹		RfCi (mg/m³)	IUR (µg/m³) ⁻¹		Koc	VOC?	Aqueous Sol (mg/L)	Aqueous Sol Reference ¹	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K)(yr ⁻¹)
ETHYL P-NITROPHENYL PHENYLPHOSPHORO THIOATE	2104-64-5	0.00001	I						1,200		3.1	4				215	
FENAMIPHOS	22224-92-6	0.00025	I						300		329	2				390	
FENVALERATE (PYDRIN)	51630-58-1	0.025	I						4,400		0.085	5			X	300	
FLUOMETURON	2164-17-2	0.013	I						68		97.5	2,5,6,8				318	
FLUORANTHENE	206-44-0	0.04	I						49000		0.26	1,5,6				375	0.29
FLUORENE	86-73-7	0.04	I						7900	X	1.9	1	20155	25294		298	2.11
FLUOROTRICHLOROMETHANE (FREON 11)	75-69-4	0.3	I			0.7	H		130	X	1090	1,4,5,6	[13100] 13107	[15000] 15060	X	24	0.35
FONOFOS	944-22-9	0.002	I						1100		13	5,6,8			X	324	
FORMALDEHYDE	50-00-0	0.2	I	0.021	C	[0.0098] 0.009	[D] C	0.000013	I	X	55000	1	[13100] 13046	[15100] 14990	X	-21	18.07
FORMIC ACID	64-18-6	0.9	P			0.0003	X		0.54	X	1000000	2	[13000] 12940	[14900] 14846	X	101	18.07
FOSETYL-AL	39148-24-8	[3] 2.5	[I] O						310		120000	2				464	
FURAN	110-00-9	0.001	I						130	X	10000	1	[13100] 13019	[15000] 14956	X	31	2.25
FURFURAL	98-01-1	0.003	I	0.0349	O	0.05	H		6.3	X	91000	1,2,3	[13000] 12998	[14900] 14930	X	162	
GLYPHOSATE	1071-83-6	0.1	I						3500		12000	1,5,6				417	
HEPTACHLOR	76-44-8	0.0005	I	4.5	I			0.0013	I		6800	0.18	4,6,7			310	46.84
HEPTACHLOR EPOXIDE	1024-57-3	0.000013	I	9.1	I			0.0026	I		21000	0.311	4,6,7,9			341	0.23
HEXACHLOROBENZENE	118-74-1	0.0008	I	1.6	I			0.00046	I		3800	0.006	1,4,5			319	0.06
HEXACHLOROBUTADIENE	87-68-3	0.001	P	0.078	I			0.000022	I		4700	2.89	4,5,6,7		X	215	0.69
HEXACHLOROCYCLOPENTADIENE	77-47-4	0.006	I			0.0002	I		7200		1.8	5,6,7			X	239	4.50
HEXACHLOROETHANE	67-72-1	0.0007	I	0.04	I	0.03	I	[0.00001] 0.000011	C	X	50	1	[13000] 14825	[15000] 17421		187	0.69
HEXANE	110-54-3	0.06	H			0.7	I		3600	X	9.5	1,5,6	[13100] 13105	[15000] 15056	X	69	
HEXAZINONE	51235-04-2	0.033	I						41		330000	1,2				408	
HEXYTHIAZOX (SAVEY)	78587-05-0	0.025	I						6,500		0.5	2				539	
HMX	2691-41-0	0.05	I						4		5	16				436	
HYDRAZINE/HYDRAZINE SULFATE	302-01-2			3	I	0.00003	P	0.0049	I	X	1000000	2	[13000] 13026	[15000] 14966	X	114	18.07
HYDROQUINONE	123-31-9	0.04	P	0.06	P				10		70000	2,3,5				285	18.07

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INDENO[1,2,3-CD]PYRENE	193-39-5			1.2	C			0.00011	C	31000000		0.062	5				536	0.17
IPRODIONE	36734-19-7	0.04	I	0.0439	O					1,100		13	2				545	
ISOBUTYL ALCOHOL	78-83-1	0.3	I							60	X	81000	1,2,3,4,5	[13000] 12954	[14900] 14866	X	108	17.57
ISOPHORONE	78-59-1	0.2	I	0.00095	I	2	C			31		12000	2,4,5			X	215	4.5
ISOPROPYL METHYLPHOSPHONATE	1832-54-8	0.1	I							1.84		50000	13			X	230	
KEPONE	143-50-0	0.0003	I	10	I			0.0046	C	55000		7.6	4				350	0.17
MALATHION	121-75-5	0.02	I							1300		143	4			X	351	2.46
MALEIC HYDRAZIDE	123-33-1	0.5	I							2.8		6000	4				260	
MANEB	12427-38-2	0.005	I	0.0601	O					1		23	9,13				351	
MERPHOS OXIDE	78-48-8	[0.00003] 0.001	[I] O							53,000		2.3	8,10,12			X	392	
METHACRYLONITRILE	126-98-7	0.0001	I			0.03	P			21	X	25700	1	[13100] 12994	[15100] 14925	X	90	
METHAMIDOPHOS	10265-92-6	0.00005	I							5		2000000	5				223	
METHANOL	67-56-1	[0.5] 2	I			[4] 20	[C] I			2.8	X	1000000	2	[13100] 13025	[15100] 14964	X	65	36.14
METHOMYL	16752-77-5	0.025	I							20		58000	2				228	
METHOXYCHLOR	72-43-5	0.005	I							63000		0.045	4,5,6				346	0.69
METHOXYETHANOL, 2-	109-86-4	0.005	P			0.02	I			1	X	1000000	2	[13100] 13141	[15000] 15115	X	124	4.50
METHYL ACETATE	79-20-9	1	[H] X							30	X	243500	4,5,6	[13100] 12982	[15100] 14908	X	57	
METHYL ACRYLATE	96-33-3	0.03	H			0.02	P			55	X	52000	1,2,5	[13100] 12971	[15100] 14892	X	70	18.07
METHYL CHLORIDE	74-87-3			0.013	H	0.09	I	0.0000018	H	6	X	6180	1,2,3,4	[13200] 13103	[15000] 15038	X	-24	4.50
METHYL ETHYL KETONE	78-93-3	0.6	I			5	I			32	X	275000	1,2,3,4,5	[13100] 12974	[15100] 14897	X	80	2.57
METHYL HYDRAZINE	60-34-4	0.001	P			0.00002	X	0.001	X	1	X	1000000	2	[1300] 13011	[14900] 14947	X	88	5.27
METHYL ISOBUTYL KETONE	108-10-1	0.08	H			3	I			17	X	19550	1,2,4,5	[13100] 12983	[15100] 14910	X	117	18.07
METHYL ISOCYANATE	624-83-9					0.001	C			10	X	100000	7	[13000] 13021	[15000] 14959	X	40	
METHYL N-BUTYL KETONE (2- HEXANONE)	591-78-6	0.005	I			0.03	I			54	X	17500	1	[13100] 12955	[15100] 14868	X	128	

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METHYL METHACRYLATE	80-62-6	1.4	I			0.7	I			10	X	15600	1	[13100] 13001	[15100] 14934	X	100	4.50
METHYL METHANESULFONATE	66-27-3			0.099	C			0.000028	C	5.2		200000	2			X	203	
METHYL PARATHION	298-00-0	0.00025	I							790		25	4,5,6				348	3.61
METHYL STYRENE (MIXED ISOMERS)	25013-15-4	0.006	H			0.04	H			2,200	X	89	9	[13100] 12945	[15000] 14853	X	163	
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4			0.0018	C	3	I	0.00000026	C	12	X	45000	1,2,4,6	[13100] 13014	[15100] 14950	X	55	0.69
METHYLCHLOROPHENOXYACETIC ACID (MCPA)	94-74-6	0.0005	I							112		1000	5,6,8,9				287	1.39
METHYLENE BIS(2-CHLOROANILINE), 4,4'-	101-14-4	0.002	P	0.1	P			0.00043	C	3,000		13.9	10				379	
METHYLNAPHTHALENE, 2-	91-57-6	0.004	I			0.003	S			16000	X	25	1	12955	14870		241	
METHYLSTYRENE, ALPHA	98-83-9	0.07	H							660	X	560	9	[13100] 12942	[15100] 14850	X	165	
METOLACHLOR	51218-45-2	0.15	I							182	X	530	1,5	[13000] 13035	[15000] 14985	X	100	
METRIBUZIN	21087-64-9	0.025	I							95		1200	1,5				367	
MEVINPHOS	7786-34-7	0.000025	O							44	X	600000	6	12947	14856			
MONOCHLOROACETIC ACID	79-11-8	0.002	H							0.24	X	858000	17	[13000] 13008	[14900] 14943		189	
NAPHTHALENE	91-20-3	0.02	I	0.12	C	0.003	I	0.000034	C	950	X	30	3	13284	15323		218	0.98
NAPHTHYLAMINE, 1-	134-32-7			1.8	[S] C			[0.00051]	[S]	3200	X	1690	2	15517	18386		301	0.69
NAPHTHYLAMINE, 2-	91-59-8			1.8	C			[0.00051]	[C]	87		6.4	6				306	0.69
NAPROPAMIDE	15299-99-7	[0.1] 0.12	[I] O							880		70	2				399	
NITROANILINE, O-	88-74-4	0.01	X			0.00005	X			27	X	1200	6	12967	14886		284	
NITROANILINE, P-	100-01-6	0.004	P	0.02	P	0.006	P			15		800	2				332	
NITROBENZENE	98-95-3	0.002	I			0.009	I	0.00004	I	130	X	2000	2	12940	14847	X	211	0.64
NITROGUANIDINE	556-88-7	0.1	I							0.13		4400	9				231	
NITROPHENOL, 2-	88-75-5	0.008	S							37	X	2100	1,2,3,4,5,6	12966	14884		215	9.01
NITROPHENOL, 4-	100-02-7	0.008	[N] M							230	X	16000	2	12960	14878		279	25.81
NITROPROPANE, 2-	79-46-9					0.02	I	0.0027	H	20	X	16700	1,3,4,5	[13000] 12984	[14900] 14911	X	120	0.69

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Value Appendix

Appendix A
Table 5 – Physical and Toxicological Properties
A. Organic Regulated Substances

Regulated Substance	CAS	RfDo (mg/kg-d)		CSFo (mg/kg-d) ⁻¹		RfCi (mg/m³)		IUR (µg/m³) ⁻¹		Koc	VOC?	Aqueous Sol (mg/L)	Aqueous Sol Reference ¹	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K)(yr ⁻¹)
NITROSODIETHYLAMINE, N-	55-18-5			150	I			0.043	I	26	X	93000	10	[13000] <u>12974</u>	[14900] <u>14896</u>	X	176	0.69
NITROSODIMETHYLAMINE, N-	62-75-9	0.000008	P	51	I	0.00004	X	0.014	I	8.5	X	1000000	2	[13000] <u>13001</u>	[14900] <u>14934</u>	X	154	0.69
NITROSO-DI-N-BUTYLAMINE, N-	924-16-3			5.4	I			0.0016	I	450	<u>X</u>	1200	9, 10, 11	<u>13008</u>	<u>14946</u>	X	235	0.69
NITROSODI-N-PROPYLAMINE, N-	621-64-7			7	I			0.002	C	11	<u>X</u>	9900	6	<u>12986</u>	<u>14914</u>	X	206	0.69
NITROSODIPHENYLAMINE, N-	86-30-6			0.0049	I			0.0000026	C	580	<u>X</u>	35	1	<u>13148</u>	<u>15140</u>		269	3.72
NITROSO-N-ETHYLUREA, N-	759-73-9			27	C			0.0077	C	2		13000	9				223	1734.48
OCTYL PHTHALATE, DI-N-	117-84-0	0.01	P							980000000		3	5			X	234	0.69
OXAMYL (VYDATE)	23135-22-0	0.025	I							7.1		280000	2				334	
PARAQUAT	1910-42-5	0.0045	I							16200		660000	6,8				352	
PARATHION	56-38-2	[0.006] <u>0.00003</u>	[H] <u>O</u>							2300		20	2,4,5,6,7			X	375	
PCBS, TOTAL (POLYCHLORINATED BIPHENYLS) (AROCLORS)	<u>1336-36-3</u>			<u>2</u>	<u>I</u>			<u>0.0001</u>	<u>I</u>	<u>78100</u>		<u>0.0505</u>	<u>10,13</u>				<u>360</u>	
PCB-1016 (AROCLOR)	12674-11-2	0.00007	I	[2]	[S]			[0.00057]	[S]	110000		0.25	5			X	325	
[PCB-1221 (AROCLOR)]	[11104-28-2]			[2]	[S]			[0.00057]	[S]	[1900]		[0.59]	[5]			[X]	[275]	
[PCB-1232 (AROCLOR)]	[11141-16-5]			[2]	[S]			[0.00057]	[S]	[1500]		[1.45]	[7]			[X]	[290]	
[PCB-1242 (AROCLOR)]	[53469-21-9]			[2]	[S]			[0.00057]	[S]	[48000]		[0.1]	[5]			[X]	[325]	
[PCB-1248 (AROCLOR)]	[12672-29-6]			[2]	[S]			[0.00057]	[S]	[190000]		[0.054]	[7,9,11]			[X]	[340]	
PCB-1254 (AROCLOR)	11097-69-1	0.00002	I	[2]	[S]			[0.00057]	[S]	810000		0.057	5			X	365	
[PCB-1260 (AROCLOR)]	[11096-82-5]			[2]	[S]			[0.00057]	[S]	[1800000]		[0.08]	[5]				[385]	
PEBULATE	1114-71-2	0.05	H							630		92	5			X	303	
PENTACHLOROBENZENE	608-93-5	0.0008	I							32000		0.74	1,5,6,7				277	0.37
PENTACHLOROETHANE	76-01-7			0.09	P					1905	X	480	1,3	[13100] <u>13120</u>	[15100] <u>15102</u>	X	160	
PENTACHLORONITROBENZENE	82-68-8	0.003	I	0.26	H					7900		0.44	4,6,8				328	0.36
PENTACHLOROPHENOL	87-86-5	0.005	I	0.4	I			[0.0000046] <u>0.0000051</u>	C	20000		14	1,2,4,5				310	0.17
PERFLUOROBUTANE SULFONATE (PFBS)	<u>375-73-5</u>	<u>0.02</u>	<u>P</u>							<u>61.7</u>		<u>56600</u>	<u>9</u>			<u>X</u>	<u>211</u>	

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A. Organic Regulated Substances

Regulated Substance	CAS	RfDo (mg/kg-d)		CSFo (mg/kg-d) ⁻¹		RfCi (mg/m³)		IUR (µg/m³) ⁻¹		Koc	VOC?	Aqueous Sol (mg/L)	Aqueous Sol Reference ¹	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K)(yr ⁻¹)
PERFLUOROOCTANE SULFONATE (PFOS)	1763-23-1	0.00002	M	0.07	M					2.57		680	19,20,21,22,23				258	
PERFLUOROOCTANOIC ACID (PFOA)	335-67-1	0.00002	M							2.06		9500	24				192	
PHENACETIN	62-44-2			0.0022	C			0.00000063	C	110		763	2,3,9				341	4.50
PHENANTHRENE	85-01-8	0.3	S							38000	X	1.1	1,4,5	41808	70721		341	0.63
PHENOL	108-95-2	0.3	I			0.2	C			22	X	84300	1,2,3,4	[13000] 12977	[14900] 14901		182	36.14
PHENYL MERCAPTAN	108-98-5	0.001	P							562	X	653	5,9	[13000] 13039	[15000] 14989	X	170	
PHENYLENEDIAMINE, M-	108-45-2	0.006	I							12		351000	3				286	4.50
PHENYLPHENOL, 2-	90-43-7			[0.0019] 0.00194	H					5,700		700	5				280	18.07
PHORATE	298-02-2	0.0002	[H] O							810		50	2			X	319	
PHTHALIC ANHYDRIDE	85-44-9	2	I			0.02	C			79	X	6170	2	13018	14956		285	13490.40
PICLORAM	1918-02-1	0.07	I							15		430	2				373	
[POLYCHLORINATED BIPHENYLS (AROCLORS) (PCBS)]	[1336-36-3]			[2]	[I]			[0.00057]	[I]			[0.0505]	[10,13]				[360]	
PROMETON	1610-18-0	0.015	I							346		750	2,5				347	
PRONAMIDE	23950-58-5	0.075	I							200		15	2				321	
PROPACHLOR	1918-16-7	0.013	I							139	X			12952	14865		110	1.73
PROPANIL	709-98-8	0.005	I							160		225	2				355	
PROPANOL, 2- (ISOPROPYL ALCOHOL)	67-63-0	2	P			0.2	P			25	X	1000000	2	[13000] 12981	[14900] 14906	X	82	
PROPAZINE	139-40-2	0.02	I							155		8.6	1,5			X	318	
PROPHAM	122-42-9	0.02	I							51		250	5				257	
PROPYLBENZENE, N-	103-65-1	0.1	X			1	X			720	X	52	6	[13100] 12971	[15100] 14891	X	159	
PROPYLENE OXIDE	75-56-9	0.001	O	0.24	I	0.03	I	0.0000037	I	25	X	405000	1	[13100] 13239	[15000] 15057	X	34	
PYRENE	129-00-0	0.03	I							68000		0.132	1				393	0.07
PYRETHRUM	8003-34-7	0.044	O							5.62	X	0.35	13			X	170	
PYRIDINE	110-86-1	0.001	I							0.0066	X	1000000	2	[13100] 13142	[15000] 15114	X	115	18.07
QUINOLINE	91-22-5			3	I					1,300		60000	1,3,5			X	238	12.65
QUIZALOFOP (ASSURE)	76578-14-8	0.009	I							580		0.3	2				220	

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A. Organic Regulated Substances

Regulated Substance	CAS	RfDo (mg/kg-d)		CSFo (mg/kg-d) ⁻¹		RfCi (mg/m³)		IUR (µg/m³) ⁻¹		Koc	VOC?	Aqueous Sol (mg/L)	Aqueous Sol Reference ¹	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K)(yr ⁻¹)
RDX	121-82-4	[0.003] 0.004	I	[0.11] 0.08	I					70		59.9	1,9				353	
RESORCINOL	108-46-3	2	TE							2		717000					280	
RONNEL	299-84-3	0.05	H							580		40	2				349	
SIMAZINE	122-34-9	0.005	I	0.12	H					110		5	5				225	
STRYCHNINE	57-24-9	0.0003	I							280		143	5				270	4.50
STYRENE	100-42-5	0.2	I			1	I			910	X	300	5	[13100] 12942	[15100] 14850	X	145	1.20
TEBUTHIURON	34014-18-1	0.07	I							620		2500	2				394	
TERBACIL	5902-51-2	0.013	I							53		710	2				396	
TERBUFOS	13071-79-9	0.000025	H							510		5	6			X	332	
TETRACHLOROBENZENE, 1,2,4,5-	95-94-3	0.0003	I							1,800		0.583	1,5,6,7				245	0.69
TETRACHLORODIBENZO-P-DIOXIN, 2,3,7,8- (TCDD)	1746-01-6	0.0000000007	[D] I	130000	C	0.00000004	C	38	C	4300000		0.0000193	6				412	0.21
TETRACHLOROETHANE, 1,1,1,2-	630-20-6	0.03	I	0.026	I			0.0000074	I	980	X	1100	1	[13000] 12990	[14600] 14921	X	131	3.79
TETRACHLOROETHANE, 1,1,2,2-	79-34-5	0.02	I	0.2	I			0.000058	I	79	X	2860	2	[13100] 12957	[15100] 14871	X	147	0.56
TETRACHLOROETHYLENE (PCE)	127-18-4	0.006	I	0.0021	I	0.04	I	0.00000026	I	300	X	162	1,2,3,4,5	[13100] 13017	[15000] 14955	X	121	0.03
TETRACHLOROPHENOL, 2,3,4,6-	58-90-2	0.03	I							6200		183	6				288	0.69
TETRAETHYL LEAD	78-00-2	0.0000001	I							4900		0.8	5			X	202	4.50
TETRAETHYLDITHIOPYROPHOSPHATE	3689-24-5	0.0005	I							550		25	2			X	349	
TETRAHYDROFURAN	109-99-9	0.9	I	0.0076	[N] I	2	I	0.00000194	[N]I	43	X	300000	1,6,7	[13100] 12970	[15100] 14891	X	66	
THIOFANOX	39196-18-4	0.0003	H							0.022		5200	9				280	
THIRAM	137-26-8	[0.005] 0.015	[I] O							1000		30	4				339	
TOLUENE	108-88-3	0.08	I			5	I			130	X	532.4	1,2,3,4	[13100] 13016	[15000] 14953	X	111	9.01
TOLUIDINE, M-	108-44-1			0.016	S			0.000051	S	140		15030	6			X	203	
TOLUIDINE, O-	95-53-4			0.016	P			0.000051	C	410		15000	1,3,5			X	200	18.07
TOLUIDINE, P-	106-49-0	0.004	X	0.03	P					320		7410	1,2,3				200	
TOXAPHENE	8001-35-2	[0.0004] 0.00009	[M] P	1.1	I			0.00032	I	1500		3	2,4,5				432	
TRIALATE	2303-17-5	[0.013] 0.025	[I] O	0.717	O					2,000		4	5			X	343	

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A. Organic Regulated Substances

Regulated Substance	CAS	RfDo (mg/kg-d)		CSFo (mg/kg-d) ⁻¹		RfCi (mg/m³)		IUR (µg/m³) ⁻¹		Koc	VOC?	Aqueous Sol (mg/L)	Aqueous Sol Reference ¹	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K)(yr ⁻¹)
TRIBROMOMETHANE (BROMOFORM)	75-25-2	0.02	I	0.0079	I			0.0000011	I	130	X	3050	1,2,3,4	[13100] 12942	[15100] 14849	X	149	0.69
TRICHLORO-1,2,2-TRIFLUOROETHANE, 1,1,2-	76-13-1	30	I			[30] 5	[H] P			1,200	X	170	1	[13100] 13064	[15000] 15014	X	48	0.35
TRICHLOROACETIC ACID	76-03-9	0.02	I	0.07	I					20	X	1200000	2,3,5,9	13291	15077		196	
TRICHLOROBENZENE, 1,2,4-	120-82-1	0.01	I	0.029	P	0.002	P			1500	X	44.4	1,4,6,7	13217	15233	X	213	0.69
TRICHLOROBENZENE, 1,3,5-	108-70-3	0.006	M			0.002	S			3100	X	5.8	5	15677	18611		208	
TRICHLOROETHANE, 1,1,1-	71-55-6	2	I			5	I			100	X	1495	1,4,5,6	[13100] 13116	[15000] 15082	X	74	0.05
TRICHLOROETHANE, 1,1,2-	79-00-5	0.004	I	0.057	I	0.0002	X	0.000016	I	76	X	4420	1	[13100] 12982	[15100] 14909	X	114	0.03
TRICHLOROETHYLENE (TCE)	79-01-6	0.0005	I	[0.05] 0.046	I	0.002	I	0.000004	I	93	X	1100	1	[13100] 13070	[15000] 15022	X	87	0.02
TRICHLOROPHENOL, 2,4,5-	95-95-4	0.1	I							2400		1000	1,2,4				246	0.14
TRICHLOROPHENOL, 2,4,6-	88-06-2	0.001	P	0.011	I			0.0000031	I	1100		850	1,2,4,5				246	0.14
TRICHLOROPHENOXYACETIC ACID, 2,4,5- (2,4,5-T)	93-76-5	0.01	I							43		278	2,4,5				279	1.39
TRICHLOROPHENOXYPROPIONIC ACID, 2,4,5- (2,4,5-TP)(SILVEX)	93-72-1	0.008	I							1700		140	2				353	
TRICHLOROPROPANE, 1,1,2-	598-77-6	0.005	I							24	X	2700	14	[13100] 13145	[15000] 15119	X	117	
TRICHLOROPROPANE, 1,2,3-	96-18-4	0.004	I	30	I	0.0003	I			280	X	1896	1,4,6	[13100] 12974	[15100] 14896	X	157	0.35
TRICHLOROPROPENE, 1,2,3-	96-19-5	0.003	X			0.0003	P			190	X	2700	14	[13100] 13047	[15000] 14992	X	142	
TRIETHYLAMINE	121-44-8					0.007	I			51	X	55000	1,4	[13100] 12951	[15100] 14862	X	90	
TRIETHYLENE GLYCOL	112-27-6	2	P							6		1000000	12			X	285	
TRIFLURALIN	1582-09-8	0.0075	I	0.0077	I					720		4	2,5,6,7				382	
TRIMETHYLBENZENE, 1,3,4- (TRIMETHYLBENZENE, 1,2,4-)	95-63-6	0.01	I			[0.007] 0.06	[P] I			2,200	X	56	1	[13100] 12978	[15000] 14904	X	169	4.50
TRIMETHYLBENZENE, 1,3,5-	108-67-8	0.01	[X] I			0.06	I			660	X	48.9	1	[13100] 12961	[15100] 14876	X	165	
TRINITROGLYCEROL (NITROGLYCERIN)	55-63-0	0.0001	P	0.017	P					116	X	1800	2,3,5	[13000] 12941	[15000] 14848	X	190	18.07
TRINITROTOLUENE, 2,4,6-	118-96-7	0.0005	I	0.03	I					1		100	2				240	
VINYL ACETATE	108-05-4	1	H			0.2	I			2.8	X	20000	1	[13200] 13017	[15000] 14955	X	73	

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Regulated Substance	CAS	RfDo (mg/kg-d)		CSFo (mg/kg-d) ⁻¹		RfCi (mg/m³)		IUR (µg/m³) ⁻¹		Koc	VOC?	Aqueous Sol (mg/L)	Aqueous Sol Reference ¹	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K)(yr ⁻¹)
VINYL BROMIDE (BROMOETHENE)	593-60-2					0.003	I	0.000032	H	150	X	4180	12	[13100] 13086	[15000] 15043	X	16	0.09
VINYL CHLORIDE	75-01-4	0.003	I	1.5	I	0.1	I	[0.000009] 0.0000088	I	10	X	2700	1	[13200] 13109	[15000] 15040	X	-13	0.09
WARFARIN	81-81-2	0.0003	I							910		17	4				356	4.50
XYLENES (TOTAL)	1330-20-7	0.2	I			0.1	I			350	X	175	13	[13100] 12982	[15000] 14909	X	140	0.69
ZINEB	12122-67-7	0.05	I							19		10	4				474	

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Table 5 – Physical and Toxicological Properties
B. Inorganic Regulated Substances

Regulated Substance	CAS	RfDo (mg/kg-d)		CSFo (mg/kg-d) ⁻¹		RfCi (mg/m ³)		IUR (ug/m ³) ⁻¹		Kd
ALUMINUM	7429-90-5	1	P			0.005	P			9.9
ANTIMONY	7440-36-0	0.0004	I							45
ARSENIC	7440-38-2	0.0003	I	1.5	I	0.000015	C	0.0043	I	29
BARIUM AND COMPOUNDS	7440-39-3	0.2	I			0.0005	H			41
BERYLLIUM	7440-41-7	0.002	I			0.00002	I	0.0024	I	790
BORON AND COMPOUNDS	7440-42-8	0.2	I			0.02	H			3
CADMIUM	7440-43-9	0.0005	I			0.00001	D	0.0018	I	75
CHROMIUM III	16065-83-1	1.5	I							1,800,000
CHROMIUM VI	18540-29-9	0.003	I	[0.42] 0.5	C	0.000008	I	[0.084] 0.012	I	19
COBALT	7440-48-4	0.0003	P			0.000006	P	0.009	P	45
COPPER	7440-50-8	[0.037] 0.0325	H							430
CYANIDE, FREE	57-12-5	0.0006	I			0.0008	I			9.9
FLUORIDE	16984-48-8	0.04	C			0.013	C			
IRON	7439-89-6	0.7	P							25
LEAD	7439-92-1			0.0085	C			0.000012	C	900
LITHIUM	7439-93-2	0.002	P							300
MANGANESE	7439-96-5	[0.047] 0.14	I			0.00005	I			65
MERCURY	7439-97-6	0.00016	C			0.0003	I			52
MOLYBDENUM	7439-98-7	0.005	I							20
NICKEL	7440-02-0	0.02	I			0.00009	D	0.00024	Is	65
NITRATE NITROGEN	14797-55-8	1.6	I							
NITRITE NITROGEN	14797-65-0	0.1	I							
PERCHLORATE	7790-98-9	0.0007	I							0
SELENIUM	7782-49-2	0.005	I			0.02	C			5
SILVER	7440-22-4	0.005	I							8.3
STRONTIUM	7440-24-6	[0.06] 0.6	I							
THALLIUM	7440-28-0	0.00001	X							71
TIN	7440-31-5	0.6	H							250
VANADIUM	7440-62-2	0.00007	P			0.0001	D			1,000
ZINC	7440-66-6	0.3	I							62

Toxicity Value Sources:

C = California EPA Cancer Potency Factor

D = ATSDR Minimal Risk Level

H = Health Effects Assessment Summary Table (HEAST)

I = Integrated Risk Information System (IRIS)

P = EPA Provisional Peer-Reviewed Toxicity Value

X = EPA Provisional Peer-Reviewed Toxicity Value Appendix

s = surrogate

Appendix A

Table 6 – Threshold of Regulation Compounds

REGULATED SUBSTANCE	CASRN	ALL AQUIFER GROUNDWATER MSC (µg/L)	Residential Soil MSC (mg/kg) 0-15 feet	Non-Residential Soil MSCs		Soil to Groundwater ¹ (mg/kg)
				Surface Soil (mg/kg) 0-2 feet	Subsurface Soil (mg/kg) 2-15 feet	
ACETIC ACID	64-19-7	5	100	100	100	0.5
ACETIC ANHYDRIDE	108-24-7	5	100	100	100	0.5
AMYL ACETATE, N-	628-63-7	5	100	100	100	0.5
AMYL ACETATE, SEC-	626-38-0	5	100	100	100	0.5
ANTU (ALPHA-NAPHTHYLTHIOUREA)	86-88-4	5	100	100	100	0.5
BHC, DELTA	319-86-8	5	100	100	100	0.5
BROMOPHENYL PHENYL ETHER, 4-	101-55-3	5	100	100	100	0.5
BUTYL ACETATE, N-	123-86-4	5	100	100	100	0.5
BUTYL ACETATE, SEC-	105-46-4	5	100	100	100	0.5
BUTYL ACETATE, TERT-	540-88-5	5	100	100	100	0.5
BUTYLAMINE, N-	109-73-9	5	100	100	100	0.5
CALCIUM CHROMATE	13765-19-0	5	100	100	100	0.5
CALCIUM CYANAMIDE	156-62-7	5	100	100	100	0.5
CARBONYL FLUORIDE	353-50-4	5	100	100	100	0.5
CATECHOL	120-80-9	5	100	100	100	0.5
CHLOROETHYL VINYL ETHER, 2-	110-75-8	5	100	100	100	0.5
CHLOROPHENYL PHENYL ETHER, 4-	7005-72-3	5	100	100	100	0.5
DECABORANE	17702-41-9	5	100	100	100	0.5
DIETHYLAMINE	109-89-7	5	100	100	100	0.5
DIGLYCIDYL ETHER (DGE)	7/5/2238	5	100	100	100	0.5
DIMETHYL PHTHALATE	131-11-3	5	100	100	100	0.5
DIMETHYL SULFATE	77-78-1	5	100	100	100	0.5
DIMETHYLPHENETHYLAMINE, ALPHA, ALPHA-	122-09-8	5	100	100	100	0.5
DIOXATHION	78-34-2	5	100	100	100	0.5
ETHYL METHANESULFONATE	62-50-0	5	100	100	100	0.5
ETHYLAMINE	75-04-7	5	100	100	100	0.5
[ETHYLENE CHLORHYDRIN]	[107-07-3]	[5]	[100]	[100]	[100]	[0.5]
FAMPHUR	52-85-7	5	100	100	100	0.5

Appendix A

Table 6 – Threshold of Regulation Compounds

REGULATED SUBSTANCE	CASRN	ALL AQUIFER GROUNDWATER MSC (µg/L)	Residential Soil MSC (mg/kg) 0-15 feet	Non-Residential Soil MSCs		Soil to Groundwater ¹ (mg/kg)
				Surface Soil (mg/kg) 0-2 feet	Subsurface Soil (mg/kg) 2-15 feet	
FENSULFOTHION	115-90-2	5	100	100	100	0.5
HEXACHLOROPROPENE	1888-71-7	5	100	100	100	0.5
IODOMETHANE	74-88-4	5	100	100	100	0.5
ISOAMYL ACETATE	123-92-2	5	100	100	100	0.5
ISOBUTYL ACETATE	110-19-0	5	100	100	100	0.5
ISODRIN	465-73-6	5	100	100	100	0.5
ISOPHORONE DIISOCYANATE	4098-71-9	5	100	100	100	0.5
ISOSAFROLE	120-58-1	5	100	100	100	0.5
LITHIUM HYDRIDE	7580-67-8	5	100	100	100	0.5
MANGANESE CYCLOPENTADIENYL TRICARBONYL	12079-65-1	5	100	100	100	0.5
METHYL ISOAMYL KETONE	110-12-3	5	100	100	100	0.5
METHYL MERCAPTAN	74-93-1	5	100	100	100	0.5
METHYLAMINE	74-89-5	5	100	100	100	0.5
[MEVINPHOS]	[7786-34-7]	[5]	[100]	[100]	[100]	[0.5]
MONOCROTOPHOS	6923-22-4	5	100	100	100	0.5
NAPHTHOQUINONE, 1,4-	130-15-4	5	100	100	100	0.5
NITRIC ACID	7697-37-2	5	100	100	100	0.5
NITROQUINOLINE-1-OXIDE, 4-	56-57-5	5	100	100	100	0.5
OSMIUM TETROXIDE	20816-12-0	5	100	100	100	0.5
PENTABORANE	19624-22-7	5	100	100	100	0.5
PERCHLOROMETHYL MERCAPTAN	594-42-3	5	100	100	100	0.5
PICOLINE, 2-	109-06-8	5	100	100	100	0.5
PROPANOL, 1-	71-23-8	5	100	100	100	0.5
PROPIONIC ACID	79-09-4	5	100	100	100	0.5
PROPIONITRILE (ETHYL CYANIDE)	107-12-0	5	100	100	100	0.5
PROPYLENE IMINE	75-55-8	5	100	100	100	0.5
[PYRETHRUM]	[8003-34-7]	[5]	[100]	[100]	[100]	[0.5]
QUINONE (p-BENZOQUINONE)	106-51-4	5	100	100	100	0.5

Appendix A

Table 6 – Threshold of Regulation Compounds

REGULATED SUBSTANCE	CASRN	ALL AQUIFER GROUNDWATER MSC (µg/L)	Residential Soil MSC (mg/kg) 0-15 feet	Non-Residential Soil MSCs		Soil to Groundwater ¹ (mg/kg)
				Surface Soil (mg/kg) 0-2 feet	Subsurface Soil (mg/kg) 2-15 feet	
SELENIUM HEXAFLUORIDE	7783-79-1	5	100	100	100	0.5
SODIUM BISULFITE	7631-90-5	5	100	100	100	0.5
SULFIDE	18496-25-8	5	100	100	100	0.5
SULFUR MONOCHLORIDE	10025-67-9	5	100	100	100	0.5
SULFURIC ACID	7664-93-9	5	100	100	100	0.5
TELLURIUM	13494-80-9	5	100	100	100	0.5
TELLURIUM HEXAFLUORIDE	7783-80-4	5	100	100	100	0.5
TEPP (TETRAETHYL PYROPHOSPHATE)	107-49-3	5	100	100	100	0.5
TETRANITROMETHANE	509-14-8	5	100	100	100	0.5
THIONAZIN	297-97-2	5	100	100	100	0.5
TRIETHYLPHOSPHOROTHIOATE, O,O,O-	126-68-1	5	100	100	100	0.5

¹ The value in the table is 100 time the groundwater MSC.

The option to use the SPLP is also available to calculate the soil to groundwater numeric value (See §250.310)

APPENDIX A			
Table 7			
DEFAULT VALUES FOR CALCULATING MEDIUM-SPECIFIC CONCENTRATIONS FOR LEAD			
[Input Values Used in UBK Model for Lead [(for residential exposure scenario)]			
Geometric Standard Deviation (GSD)	1.42 (default)	Drinking water intake	Model default
Outdoor air lead concentration	0.2 µg/m ³ (default)	Soil lead level	495 µg/g
Indoor air lead concentration (% of outdoor)	30	Indoor dust lead level	495 µg/g
Time spent outdoors	Model default	Soil/dust ingestion weighting factor (%)	45
Ventilation rate	Model default	Paint lead intake	Model default
Lung absorption	Model default	Maternal contribution method	Infant model
Dietary lead intake	Model default	Mother's blood lead at birth	7.5 µg/dL blood (model default)
GI method/bioavailability	Non-linear	Target blood lead level	10 µg/dL blood
Lead concentration in drinking water	4.00 µg/L (default)]		

[Input Values Used in SEGH Equation (for nonresidential exposure scenario)]	
Concentration of lead in soil (S)	987 µg/g
Target blood lead level in adults (T)	20 µg/dL blood
Geometric standard deviation of blood lead distribution (G)	1.4
Baseline blood lead level in target population (B)	4 µg/dL blood
Number of standard deviations corresponding to degree of protection required for the target population (n)	1.645 (for 95% of population)
Slope of blood lead to soil lead relationship (δ)	7.5 µg/dL blood per µg/g soil]

[REFERENCE

WIXSON, B.G. (1991). *The Society for Environmental Geochemistry and Health (SEGH) Task Force Approach to the Assessment of Lead in Soil. Trace Substances in Environmental Health . 11-20.]*

<u>Input Values Used in IEUBK Model for Lead</u> (for residential exposure scenario)		
<u>Parameter</u>	<u>Value</u>	
<u>Outdoor Air Pb Concentration ($\mu\text{g}/\text{m}^3$)</u>	<u>Constant Value: 0.1</u>	
<u>Dietary Lead Intake ($\mu\text{g}/\text{day}$)</u>	<u>Age (Years)</u>	<u>Input</u>
	<u>0-1</u>	<u>2.26</u>
	<u>1-2</u>	<u>1.96</u>
	<u>2-3</u>	<u>2.13</u>
	<u>3-4</u>	<u>2.04</u>
	<u>4-5</u>	<u>1.95</u>
	<u>5-6</u>	<u>2.05</u>
	<u>6-7</u>	<u>2.22</u>
<u>Water Consumption (L/day)</u>	<u>Age (Years)</u>	<u>Input</u>
	<u>0-1</u>	<u>0.2</u>
	<u>1-2</u>	<u>0.5</u>
	<u>2-3</u>	<u>0.52</u>
	<u>3-4</u>	<u>0.53</u>
	<u>4-5</u>	<u>0.55</u>
	<u>5-6</u>	<u>0.58</u>
	<u>6-7</u>	<u>0.59</u>
<u>Use Alternate Water Value?</u>	<u>NO</u>	
<u>Lead concentration in drinking water ($\mu\text{g}/\text{L}$)</u>	<u>4</u>	
<u>MEDIA</u>	<u>ABSORPTION FRACTION PERCENT</u>	
<u>Soil</u>	<u>30</u>	
<u>Dust</u>	<u>30</u>	
<u>Water</u>	<u>50</u>	
<u>Diet</u>	<u>50</u>	
<u>Alternate</u>	<u>0</u>	
<u>Calculate PRG</u>		
<u>Select Age Group for Graph</u>	<u>0 to 84 months</u>	
<u>Change Cutoff</u>	<u>TBD</u>	
<u>Change GSD</u>	<u>1.6</u>	
<u>Probability of Exceeding the Cutoff</u>	<u>5</u>	

<u>Input Values Used in the Adult Lead Model (ALM)</u> (for non-residential exposure scenario)			
<u>Variable</u>	<u>Description of Variable</u>	<u>Units</u>	<u>Value</u>
<u>PbB_{fetal, 0.95}</u>	<u>Target PbB in fetus</u>	<u>$\mu\text{g}/\text{dL}$</u>	<u>TBD</u>
<u>R_{fetal/maternal}</u>	<u>Fetal/maternal PbB ratio</u>	<u>--</u>	<u>0.9</u>
<u>BKSF</u>	<u>Biokinetic Slope Factor</u>	<u>$\mu\text{g}/\text{dL}$ per $\mu\text{g}/\text{day}$</u>	<u>0.4</u>
<u>GSD_i</u>	<u>Geometric standard deviation PbB</u>	<u>--</u>	<u>1.8</u>
<u>PbB₀</u>	<u>Baseline PbB</u>	<u>$\mu\text{g}/\text{dL}$</u>	<u>0.6</u>

<u>IR_s</u>	<u>Soil ingestion rate</u>	<u>g/day</u>	<u>0.050</u>
<u>AF_{s, D}</u>	<u>Absorption fraction</u>	<u>--</u>	<u>0.12</u>
<u>EF_{s, D}</u>	<u>Exposure frequency</u>	<u>days/yr</u>	<u>219</u>
<u>AT_{s, D}</u>	<u>Averaging time</u>	<u>days/yr</u>	<u>365</u>