

APPENDIX A
TABLE 1 – MEDIUM-SPECIFIC CONCENTRATIONS (MSCs) FOR ORGANIC REGULATED SUBSTANCES IN GROUNDWATER

REGULATED SUBSTANCE	CASRN	USED AQUIFERS						NONUSE AQUIFERS			
		TDS = 2500			TDS > 2500			R		NR	
		R	NR		R	NR		R	NR		NR
ACENAPHTHENE	83-32-9	[2,200] <u>580</u> [G] N	[3,800] [S] <u>1,200</u> N		3,800 S		3,800 S		3,800 S		3,800 S
ACENAPHTHYLENE	208-96-8	[2,200] <u>580</u> [G] N	[6,100] [G] <u>1,200</u> N		16,000 S		16,000 S		16,000 S		16,000 S
ACETALDEHYDE	75-07-0	19 N	[52] <u>53</u> N		1,900 N		[5,200] <u>5,300</u> N		19 N		[52] <u>53</u> N
ACETONE	67-64-1	[3,700] G 33,000	[10,000] G 92,000		[370,000] G 3,300,000		[1,000,000] G 9,200,000		[37,000] G 330,000		[100,000] G 920,000
ACETONITRILE	75-05-8	[170] <u>160</u> N	350 N		[17,000] <u>16,000</u> N		35,000 N		[1,700] <u>1,600</u> N		3,500 N
ACETOPHENONE	98-86-2	[3,700] <u>970</u> [G] N	[10,000] [G] <u>2,000</u> N		[370,000] [G] <u>97,000</u> N		[1,000,000] [G] <u>200,000</u> N		[3,700] <u>970</u> [G] N		[10,000] [G] <u>2,000</u> N
ACRYLIC ACID	79-10-7	2.8 N	[5.8] <u>5.9</u> N		280 N		[580] <u>590</u> N		280 N		[580] <u>590</u> N
ALDICARB	116-06-3	[7] <u>3</u> M	[7] <u>3</u> M		[700] <u>300</u> M		[700] <u>300</u> M		[7,000] <u>3,000</u> M		[7,000] <u>3,000</u> M
ALDRIN	309-00-2	[0.0087] [N] <u>0.039</u> G	[0.037] <u>0.15</u> [N] G		[0.87] <u>3.9</u> [N] G		[3.7] <u>15</u> [N] G		[0.87] <u>20</u> [N] S		[3.7] <u>20</u> [N] S
ANILINE	62-53-3	2.8 N	[5.8] <u>5.9</u> N		280 N		[580] <u>590</u> N		2.8 N		[5.8] <u>5.9</u> N
BENTAZON	25057-89-0	[1100] <u>200</u> [G] H	[3100] <u>200</u> [G] H		[110000] [G] <u>20,000</u> H		[310000] [G] <u>20,000</u> H		[1100] <u>200</u> [G] H		[3100] <u>200</u> [G] H
BENZOTRICHLORIDE	98-07-7	0.051 G	0.2 G		5.1 G		20 G		[51] <u>5.1</u> G		[200] <u>20</u> G
BENZYL CHLORIDE	100-44-7	[0.87] <u>0.88</u> N	[3.7] <u>3.8</u> N		[87] <u>88</u> N		[370] <u>380</u> N		[87] <u>88</u> N		[370] <u>380</u> N
BETA PROPIOLACTONE	57-57-8	<u>0.011</u> N	<u>0.046</u> N		<u>1.1</u> N		<u>4.6</u> N		<u>0.11</u> N		<u>0.46</u> N
BIPHENYL, 1,1-	92-52-4	[1,800] <u>490</u> [G] N	[5,100] [G] <u>1,000</u> N		7,200 S		7,200 S		7,200 S		7,200 S
BIS(2-CHLOROETHYL)ETHER	111-44-4	0.13 N	[0.55] <u>0.53</u> N		13 N		[55] <u>53</u> N		13 N		[55] <u>53</u> N
BIS(CHLOROMETHYL)ETHER	542-88-1	[0.00069] N <u>0.00068</u>	0.0029 N		[0.069] N <u>0.068</u>		0.29 N		[0.069] N <u>0.068</u>		0.29 N
BROMACIL	314-40-9	[80] <u>90</u> H	[80] <u>90</u> H		[8000] <u>9,000</u> H		[8000] <u>9,000</u> H		[80] <u>90</u> H		[80] <u>90</u> H
BROMODICHLOROMETHANE	75-27-4	[100] <u>80</u> M	[100] <u>80</u> M		[10000] M <u>8,000</u>		[10000] M <u>8,000</u>		[100] <u>80</u> M		[100] <u>80</u> M
BUTADIENE, 1,3-	106-99-0	[0.15] <u>0.19</u> [N] G	[0.65] <u>0.76</u> [N] G		[15] <u>19</u> [N] G		[65] <u>76</u> [N] G		[0.15] <u>190</u> [N] G		[0.65] <u>760</u> [N] G

All concentrations in µg/L

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		TDS = 2500			TDS > 2500			R		NR			
		R		NR	R		NR	R		NR			
BUTYLATE	2008-41-5	[350] <u>400</u>	H	[350] <u>400</u>	H	[35000] <u>40,000</u>	H	[35000] <u>40,000</u>	H	[350] <u>400</u>	H	[350] <u>400</u>	H
CHLORO-1-PROPENE, 3- (ALLYL CHLORIDE)	107-05-1	2.8	N	[5.8] <u>5.9</u>	N	280	N	[580] <u>590</u>	N	280	N	[580] <u>590</u>	N
CHLOROACETOPHENONE, 2-	532-27-4	[0.31] <u>0.083</u>	[G] N	[0.88] <u>0.18</u>	[G] N	[31] <u>8.3</u>	[G] N	[88] <u>18</u>	[G] N	[310] <u>8.3</u>	[G] N	[880] <u>18</u>	[G] N
CHLOROANILINE, P-	106-47-8	[150] <u>39</u>	[G] N	[410] <u>82</u>	[G] N	[15,000] <u>3,900</u>	[G] N	[41,000] <u>8,200</u>	[G] N	[150] <u>39</u>	[G] N	[410] <u>82</u>	G
CHLORODIBROMOMETHANE	124-48-1	[100] <u>80</u>	M	[100] <u>80</u>	M	[10000] <u>8,000</u>	M	[10000] <u>8,000</u>	M	[10000] <u>8,000</u>	M	[10000] <u>8,000</u>	M
CHLORODIFLUOROMETHANE	75-45-6	[100] <u>140,000</u>	[H] N	[100] <u>290,000</u>	[H] N	[10000] <u>2,900,000</u>	[H] S	[10000] <u>2,900,000</u>	[H] S	[100] <u>140,000</u>	[H] N	[100] <u>290,000</u>	[H] N
CHLOROFORM	67-66-3	[100] <u>80</u>	M	[100] <u>80</u>	M	[10000] <u>8,000</u>	M	[10000] <u>8,000</u>	M	[1000] <u>800</u>	M	[1000] <u>800</u>	M
CHLORONAPHTHALENE, 2-	91-58-7	[2,900] <u>780</u>	[G] N	[8,200] <u>1,600</u>	[G] N	12,000	S	12,000	S	[2,900] <u>780</u>	[G] N	[8,200] <u>1,600</u>	[G] N
CHLORONITROBENZENE, P-	100-00-5	[37] <u>2</u>	[G] N	[140] <u>4</u>	[G] N	[3,700] <u>160</u>	[G] N	[14,000] <u>350</u>	[G] N	[37] <u>2</u>	[G] N	[140] <u>4</u>	[G] N
CHLOROPROPANE, 2-	75-29-6	280	N	[580] <u>590</u>	N	28,000	N	[58,000] <u>59,000</u>	N	280	N	[580] <u>590</u>	N
CHLORSULFURON	64902-72-3	1,800	G	5,100	G	[130,000] <u>180,000</u>	[S] G	[130,000] <u>190,000</u>	S	1,800	G	5,100	G
CHLORTHAL-DIMETHYL (DACTHAL) (DCPA)	1861-32-1	[400] <u>70</u>	H	[400] <u>70</u>	H	500	S	500	S	500	S	500	S
CRESOL, 4,6-DINOTRO-O-	534-52-1	1	N	2	N	97	N	200	N	97	N	200	N
CUMENE	98-82-8	1,100	N	[2,300] <u>2,200</u>	N	50,000	S	50,000	S	50,000	S	50,000	S
CYCLOHEXANE	110-82-7	16,000	N	35,000	N	55,000	S	55,000	S	16,000	N	35,000	N
CYCLOHEXANONE	108-94-1	49,000	N	100,000	N	4,900,000	N	10,000,000	N	49,000	N	100,000	N
DDD, 4,4'-	72-54-8	[0.62] <u>2.8</u>	[N] G	[2.7] <u>11</u>	[N] G	[62] <u>160</u>	[N] S	160	S	[62] <u>160</u>	[N] S	160	S
DIALATE	2303-16-4	[2.5] <u>11</u>	[N] G	[10] <u>43</u>	[N] G	[250] <u>1,100</u>	[N] G	[1,000] <u>4,300</u>	[N] G	[250] <u>11,000</u>	[N] G	[1,000] <u>40,000</u>	[N] S
DIBENZOFURAN	132-64-9	19	N	41	N	1,900	N	4,100	N	1,900	N	4,100	N
DICHLOROETHANE, 1,1-	75-34-3	[27] <u>26</u>	N	110	N	[2700] <u>2,600</u>	N	11,000	N	[270] <u>260</u>	N	1,100	N

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		TDS = 2500				TDS > 2500				R		NR	
		R		NR		R		NR		R		NR	
DICHLOROPHENOL, 2,4-	120-83-2	20	H	20	H	2,000	H	2,000	H	[20,000] 2,000	H	[20,000] 2,000	H
DICHLOROPHENOXYACETIC ACID, 2,4- (2,4-D)	94-75-7	70	M	70	M	7,000	M	7,000	M	[7000] 70,000	M	[7000] 70,000	M
DICHLORVOS	62-73-7	[0.52] 2.3	[N] G	[2.2] 9	[N] G	[52] 230	[N] G	[220] 900	[N] G	[0.52] 2.3	[N] G	[2.2] 9	[N] G
DIETHYL PHTHALATE	84-66-2	[5000] 29,000	[H] G	[5000] 82,000	[H] G	[500000] 1,100,000	[H] S	[500000] 1,100,000	[H] S	1,100,000	S	1,100,000	S
DINITROPHENOL, 2,4-	51-28-5	[19] 73	[N] G	[41] 200	[N] G	[1900] 7,300	[N] G	[4100] 20,000	[N] G	[190] 73,000	[N] G	[410] 200,000	[N] G
DIPHENYLAMINE	122-39-4	[200] 910	[H] G	[200] 2,600	[H] G	[20000] 91,000	[H] G	[20000] 260,000	[H] G	[200000] 300,000	[H] S	[200000] 300,000	[H] S
DISULFOTON	298-04-4	0.3	H	0.3	H	30	H	30	H	[30] 300	H	[30] 300	H
ENDOSULFAN	115-29-7	[58] 220	[N] G	[120] 480	[N] S	480	S	480	S	480	S	480	S
ENDOSULFAN SULFATE	1031-07-8	[120] 58	[S] N	120	S	120	S	120	S	[120] 58	[S] N	120	S
EPICHLOROHYDRIN	106-89-8	2.8	N	[5.8] 5.9	N	280	N	[580] 590	N	280	N	[580] 590	N
ETHYLENE THIOUREA (ETU)	96-45-7	[3] 2.9	[H] G	[3] 8.2	[H] G	[300] 290	[H] G	[300] 820	[H] G	[3000] 2,900	[H] G	[3000] 8,200	[H] G
FLUORENE	86-73-7	[1,500] 390	[G] N	[1,900] 820	[S] N	1,900	S	1,900	S	1,900	S	1,900	S
FORMIC ACID	64-18-6	[19,000] 8	N	[41,000] 18	N	[1,900,000] 830	N	[4,100,000] 1,800	N	[190,000] 83	N	[410,000] 180	N
HYDROQUINONE	123-31-9	[1,500] 12	G	[4,100] 46	G	[150,000] 1,200	G	[410,000] 4,600	G	[1,500,000] 12,000	G	[4,100,000] 46,000	G
INDENO[1,2,3-CD]PYRENE	193-39-5	0.9	G	3.6	G	62	S	62	S	62	S	62	S
IPRODIONE	36734-19-7	1,500	G	4,100	G	13,000	S	13,000	S	1,500	G	4,100	G
ISOBUTYL ALCOHOL	78-83-1	2,900	N	6,100	N	290,000	N	610,000	N	290,000	N	610,000	N
ISOPHORONE	78-59-1	100	H	100	H	10,000	H	10,000	H	100,000	H	100,000	H
KEPONE	143-50-0	[0.041] 0.083	G	[0.16] 0.33	G	[4.1] 8.3	G	[16] 33	G	[41] 83	G	[160] 330	G
MALATHION	121-75-5	100	H	100	H	10,000	H	10,000	H	[10,000] 100,000	H	[10,000] 100,000	H

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		TDS = 2500				TDS > 2500				R		NR	
		R	NR			R	NR			R	NR		
METHYL CHLORIDE	74-87-3	[3] 30	H	[3] 30	H	[300] 3,000	H	[300] 3,000	H	[300] 3,000	H	[300] 3,000	H
METHYL ETHYL KETONE	78-93-3	[2800] 4,000	[N] H	[5800] 4,000	[N] H	[280000] 400,000	[N] H	[580000] 400,000	[N] H	[280000] 400,000	[N] H	[580000] 400,000	[N] H
METHYL ISOBUTYL KETONE	108-10-1	[190] 2,900	[N] G	4[10] 8,200	[N] G	[19,000] 290,000	[N] G	[41,000] 820,000	[N] G	[19,000] 290,000	[N] G	[41,000] 820,000	[N] G
METHYL-N-BUTYL KETONE (2-HEXANONE)	591-78-6	14	N	29	N	1,400	N	2,900	N	14	N	29	N
METHYL METHACRYLATE	80-62-6	1,900	N	4,100	N	190,000	N	410,000	N	190,000	N	410,000	N
METHYL PARATHION	298-00-0	2	H	2	H	200	H	200	H	[200] 2,000	H	[200] 2,000	H
METHYL STYRENE (MIXED ISOMERS)	25013-15-4	[220] 97	[G] N	[610] 200	[G] N	[22,000] 9,700	[G] N	[61,000] 20,000	[G] N	[220] 97	[G] N	[610] 200	[G] N
METHYLCHLOROPHENOXYACETIC ACID (MCPPA)	94-74-6	0.004	H	0.004	H	0.4	H	0.4	H	4	H	4	H
METHYLNAPHTHALENE, 2-	91-57-6	[730] 8	[G] N	[2,000] 18	[G] N	[25,000] 830	[S] N	[25,000] 1,800	[S] N	[730] 8	[G] N	[2,000] 18	[G] N
NAPHTHALENE	91-20-3	100	H	100	H	10,000	H	10,000	H	[30,000] 10,000	[S] H	[30,000] 10,000	[S] H
NITROANILINE, M-	99-09-2	[2.1] 11	G	[5.8] 31	G	[210] 1,100	G	[580] 3,100	G	[2.1] 11	G	[5.8] 31	G
NITROANILINE, O-	88-74-4	[2.1] 0.55	[G] N	[5.8] 1.2	[G] N	[210] 55	[G] N	[580] 120	[G] N	[2.1] 0.55	[G] N	[5.8] 1.2	[G] N
NITROANILINE, P-	100-01-6	[2.1] 33	G	[5.8] 130	G	[210] 3,300	G	[580] 13,000	G	[2.1] 33	G	[5.8] 130	G
NITROBENZENE	98-95-3	[18] 6	[G] N	[51] 12	[G] N	[1,800] 580	[G] N	[5,100] 1,200	[G] N	[18,000] 580	[G] N	[51,000] 1,200	[G] N
NITROPHENOL, 2-	88-75-5	[290] 78	[G] N	[820] 1560	[G] N	[29,000] 7,800	[G] N	[82,000] 16,000	[G] N	[290,000] 7,800	[G] N	[820,000] 16,000	[G] N
NITROSODI-N-PROPYLAMINE, N-	621-64-7	[0.094] 0.021	[G] N	[0.37] 0.091	[G] N	[9.4] 2.1	[G] N	[37] 9.1	[G] N	[94] 0.21	[G] N	[370] 0.91	[G] N
NITROSODIPHENYLAMINE, N-	86-30-6	[130] 17	[G] N	[530] 71	[G] N	[13,000] 1,700	[G] N	[35,000] 7,100	[S] N	[35,000] 1,700	[S] N	[35,000] 7,100	[S] N
NITROSO-N-ETHYLUREA, N-	759-73-9	0.0047	G	0.019	G	0.47	G	1.9	G	[0.47] 4.7	G	[1.9] 19	G
PCB-1016 (AROCLOR)	12674-11-2	[2.6] 0.075	[G] N	[7.2] 0.32	[G] N	[250] 7.5	[S] N	[250] 32	[S] N	[2.6] 0.075	[G] N	[7.2] 0.32	[G] N
PCB-1221 (AROCLOR)	11104-28-2	[1.3] 9.4	G	[5.2] 37	G	[130] 590	[G] S	[520] 590	[G] S	[1.3] 9.4	G	[5.2] 37	G
PCB-1232 (AROCLOR)	11141-16-5	[1.3] 0.33	G	[5.2] 1.3	G	[130] 33	G	[520] 130	G	[1.3] 0.33	G	[5.2] 1.3	G
PCB-1242 (AROCLOR)	53469-21-9	[1.3] 0.33	G	[5.2] 1.3	G	[100] 33	S	100	S	[1.3] 0.33	G	[5.2] 1.3	G
PCB-1248 (AROCLOR)	12672-29-6	[0.37] 0.33	G	[1.4] 1.3	G	[37] 33	G	54	S	[0.37] 0.33	G	[1.4] 1.3	G

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		TDS = 2500				TDS > 2500				R		NR	
		R		NR		R		NR		R		NR	
PCB-1254 (AROCLOR)	11097-69-1	[0.37] 0.33	G	[1.4] 1.3	G	[37] 33	[G] S	57	S	[0.37] 0.33	G	[1.4] 1.3	G
PCB-1260 (AROCLOR)	11096-82-5	[1.1] 0.33	G	[4.3] 1.3	G	[80] 33	[S] G	80	S	[1.1] 0.33	G	[4.3] 1.3	G
PHENACETIN	62-44-2	[300] 68	[G] N	[1,200] 290	[G] N	[30,000] 6,800	[G] N	[120,000] 29,000	[G] N	[300,000] 6,800	[G] N	[760,000] 29,000	[S] N
PHENYL MERCAPTAN	109-98-5	0.1	N	0.2	N	10	N	20	N	0.1	N	0.2	N
PHENYLPHENOL, 2-	90-43-7	[340] 350	G	[1,300] 1,400	G	[34,000] 35,000	G	[130,000] 140,000	G	[340,000] 350,000	G	700,000	S
PROPHAM	122-42-9	[730] 100	[G] H	[2,000] 100	[G] H	[73,000] 10,000	[G] H	[200,000] 10,000	[G] H	[730] 100	[G] H	[2,000] 100	[G] H
QUINOLINE	91-22-5	[0.055] 0.22	G	[0.22] 0.87	G	[5.5] 22	G	[22] 87	G	[55] 220	G	[220] 870	G
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] 0.003	[S] M	[0.019] 0.003	[S] M
TETRACHLOROPHENOL, 2,3,4,6-	58-90-2	[290] 1,100	N	[610] 3,100	N	[29,000] 110,000	N	[61,000] 180,000	[N] S	[29,000] 180,000	[N] S	[61,000] 180,000	[N] S
TETRAHYDROFURAN	109-99-9	22	N	94	N	2,200	N	9,400	N	22	N	94	N
TOLUIDINE, M-	108-44-1	[2.8] 0.63	[G] N	[11] 2.7	[G] N	[280] 63	[G] N	[1,100] 270	[G] N	[2.8] 0.63	[G] N	[11] 2.7	[G] N
TOLUIDINE, O	95-53-4	[2.8] 0.63	[G] N	[11] 2.7	[G] N	[280] 63	[G] N	[1,100] 270	[G] N	[2,800] 63	[G] N	[11,000] 270	[G] N
TRIBROMOMETHANE (BROMOFORM)	75-25-2	[100] 80	M	[100] 80	M	[10000] 8,000	M	[10000] 8,000	M	[10000] 8,000	M	[10000] 8,000	M
TRICHLOROBENZENE, 1,2,4-	120-82-1	70	M	70	M	7,000	M	7,000	M	[44,000] 7,000	[S] M	[44,000] 7,000	[S] M
TRICHLOROPHENOL, 2,4,5-	95-95-4	[3,700] 970	[G] N	[10,000] 2,000	[G] N	[370,000] 97,000	[G] N	[1,000,000] 200,000	[G] N	[1,000,000] 97,000	[S] N	[1,000,000] 200,000	[S] N
TRICHLOROPROPENE, 1,2,3-	96-19-5	[180] 2.9	[G] N	[510] 6.1	[G] N	[18,000] 290	[G] N	[51,000] 610	[G] N	[180] 2.9	[G] N	[510] 6.1	[G] N
TRIETHYLAMINE	121-44-8	19	N	41	N	1,900	N	4,100	N	19	N	41	N
TRINITROGLYCEROL (NITROGLYCERIN)	55-63-0	0.005	H	0.005	H	0.5	H	0.5	H	0.005	H	0.005	H

All concentrations in µg/L

R = Residential

NR = Non-Residential

M = Maximum Contaminant Level

H = Lifetime health advisory level

G = Ingestion

N = Inhalation

S = Aqueous solubility cap