

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						TDS > 2500					Residential		Nonresidential					
		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	100 X GW MSC	Generic Value					
ETHYL ETHER	60-29-7	[730] 830	[210] 230	E	[2,000] 2,300	[560] 650	E	10,000	10,000	C	10,000	10,000	C	[730] 830	[210] 230	E	[2,000] 2,300	[560] 650	E	NA
ETHYL METHACRYLATE	97-63-2	[330] 63	[55] 10	E	[920] 260	[150] 43	E	[10,000] 6,300	[5,500] 1,000	E	10,000	[10,000] 4,300	[C] E	[330] 63	[55] 10	E	[920] 260	[150] 43	E	NA
ETHYLENE CHLORHYDRIN	107-07-3	83	10	E	230	26	E	8,300	950	E	10,000	2,600	E	83	10	E	230	26	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	[0.29] 0.33	[0.032] 0.037	E	[0.82] 0.93	[0.092] 0.1	E	[29] 33	[3.2] 3.7	E	[82] 93	[9.2] 10	E	[290] 330	[32] 37	E	[820] 930	[92] 100	E	NA
ETHYLP-NITROPHENYL PHENYLPHOSPHORO THIOATE	2104-64-5	[0.037] 0.042	[0.12] 0.13	E	[0.1] 0.12	[0.31] 0.37	E	[3.7] 4.2	[12] 13	E	[10] 12	[31] 37	E	[0.037] 0.042	[0.12] 0.13	E	0.1	[0.31] 0.37	E	20
FENAMIPHOS	22224-92-6	0.07	0.06	E	0.07	0.06	E	7	6	E	7	6	E	[0.1] 0.07	0.06	E	[0.1] 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	[150] 170	[3,000] 3,400	E	190	3,800	E	190	3,800	E	190	3,800	E	190	3,800	E	190	3,800	E	15
FLUOROTRICHLORO 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	[0.63] 0.063	[0.071] 0.0071	E	[2.6] 0.26	[0.3] 0.029	E	[63] 6.3	[7.1] 0.71	E	[260] 26	[29] 2.9	E	[6.3] 0.63	[0.71] 0.071	E	[26] 2.6	[3] 0.29	E	NA
FOSETYL-AL	39148-24-8	[11,000] 13,000	[9,700] 12,000	E	[31,000] 35,000	[27,000] 31,000	E	190,000	190,000	C	190,000	190,000	C	[11,000] 13,000	[9,700] 12,000	E	[31,000] 35,000	[27,000] 31,000	E	NA
FURAN	110-00-9	[3.7] 4.2	[1.6] 1.8	E	[10] 12	[4.4] 5.2	E	[370] 420	[160] 180	E	[1,000] 1,200	[440] 520	E	[370] 420	[160] 180	E	[1,000] 1,200	[440] 520	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

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		TDS ≤ 2500					TDS > 2500					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	E	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	E	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value		E			
FURFURAL	98-01-1	11	1.4	E	[31] 35	[3.9] 4.4	E	1,100	140	E	[3,100] 3,500	[390] 440	E	11	1.4	E	[31] 35	[3.9] 4.4	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	[0.9] 0.94	[10] 11	E	[3.3] 4.4	[39] 52	E	[85] 94	[1,000] 1,100	E	290	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	[610] 620	5,600	E	950	8,700	E	950	8,700	E	150	1,400	E	[610] 620	5,600	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	[438] 4.8	E	NA
HYDRAZINE/HYDRAZINE SULFATE	302-01-2	0.001	0.00011	E	0.005 1	0.00057	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	0.16	E	[4.6] 5.7	[0.62] 0.77	E	120	16	E	[460] 570	[62] 77	E	1,200	160	E	[4,600] 5,700	[620] 770	E	NA
INDENO[1,2,3-CD]PYRENE	193-39-5	[0.029] 0.031	[2,200] 2,400	E	[0.36] 0.47	[28,00] 0 36,000	E	[2.9] 3.1	190,00 0	C	6.2	190,00 0	C	6.2	190,000	C	6.2	190,000	C	5
IPRODIONE	36734-19-7	[150] 170	[430] 490	E	[410] 470	[1,200] 1,300	E	1,300	3,700	E	1,300	3,700	E	[150] 170	[430] 490	E	[410] 470	[1,200] 1,300	E	20
ISOBUTYL ALCOHOL	78-83-1	[1,100] 1,300	[290] 340	E	[3,10] 0 3,500	[810] 910	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					TDS > 2500					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	E	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	E	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value				
KEPONE	143-50-0	[0.0041]] 0.0073	[0.56] 1 E	[0.016] 0.034	[2.2] 4.7	E	[0.41] 0.73	[56] 100	E	1.6] 3.4	[220] 470	E	4.1] 7.3	[560] 1,000	E	[16] 34	[2,200] 4,700	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	[18] 21	2 E	[51] 58	[5.8] 6.6	E	[1,800] 2,100	[200] 240	E	2,300	260 E	[18] 21	2 E	[51]58	[5.8] 6.6	E	NA		
MERPHOS OXIDE	78-48-8	[0.11] 0.13	[15] 17 E	[0.31] 0.35	[41] 46 E	[11] 13	[1,500] 1,700	E	[31] 35	[4,100] 4,600	E	[0.11] 0.13	[15] 17 E	[0.31] 0.35	[41] 46 E	10			
METHACRYLONITRILE	126-98-7	[0.15] 0.42	[0.025] 0.069 E	[0.62] 1.2	[0.1] 0.2 E	[15] 42	[2.5] 6.9	E	[62] 120	[10] 20	E	[0.15] 0.42	[0.025] 0.069 E	[0.62] 1.2	[0.1] 0.2 E	NA			
METHAMIDOPHOS	10265-92-6	[0.18] 0.21	[0.022] 0.026 E	[0.51] 0.58	[0.063] 0.072 E	[18] 21	[2.2] 2.6	E	[51] 58	[6.3] 7.2	E	[0.18] 0.21	[0.022] 0.026 E	[0.51] 0.58	[0.063] 0.072 E	NA			
METHANOL	67-56-1	840	99 E	3,500	410 E	10,000	9,900 E	10,000	10,000 C	10,000	9,900 E	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	0.47 E	18	2 E	420	47 E	1,800	200 E	4.2	0.47 E	18	2 E	NA					
METHYL ACETATE	79-20-9	[3,700] 4,200	[690] 780 E	10,000	[1,900] 2,200 E	10,000	10,000 C	10,000	10,000 C	[3,700] 4,200	[690] 780 E	10,000	[1,900] 2,200 E	NA					
METHYL ACRYLATE	96-33-3	[110] 4	[27] 1 E	[310] 18	[77] 5 E	[10,000] 420	[2,700] 100 E	[10,000] 1,800	[7,700] 450 E	[10,000] 420	[2,700] 100 E	[10,000] 1,800	[7,700] 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	[C] E	10,000	7,600 E	10,000	7,600 E	[C] 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	[290] 330	[45] 51 E	[820] 930	[130] 140 E	10,000	[4,500] 5,100	E	10,000	10,000 C	10,000	[4,500] 5,100	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	[1.1] 6.3	[0.27] 1.6 E	[4.4] 26	[1.1] 6.4 E	[110] 630	[27] 160	E	[440] 2,600	[110] 640	E	[1.1] 6.3	[0.27] 1.6 E	[4.4] 26	[1.1] 6.4 E	NA			
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					

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		TDS ≤ 2500					TDS > 2500					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	E	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	E	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value					
METHYL METHANESULFONATE	66-27-3	[0.67] 0.74	[0.083] 0.092	E	[2.6] 3.4	[0.32] 0.42	E	[67] 74	[8.3] 9.2	E	[260] 340	[32] 42	E	[0.67] 0.74	[0.083] 0.092	E	[2.6] 3.4	[0.32] 0.42	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
METHYLCHLOROPHENOXY ACETIC 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	[0.22] 0.23	[1.7] 1.8	E	[2.6] 3.4	[20] 26	E	[22] 23	[170] 180	E	[260] 340	[2,000] 2,600	E	[0.22] 0.23	[1.7] 1.8	E	[2.6] 3.4	[20] 26	E	15
METHYLNAPHTHALENE, 2-	91-57-6	[15] 17	[600] 680	E	[41] 47	[1,600] 1,900	E	[1,500] 1,700	[60,000] 68,000	E	2,500	100,000	E	[15] 17	[600] 680	E	[41] 47	[1,600] 1,900	E	15
METHYLSTYRENE, ALPHA	98-83-9	[260] 290	[460] 510	E	[720] 820	[1,300] 1,400	E	10,000	10,000	C	10,000	10,000	C	[260] 290	[460] 510	E	[720] 820	[1,300] 1,400	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
MONOCHLOROACETIC ACID (HAA)	79-11-8	[7] 6	[0.78] 0.67	E	[7] 6	[0.78] 0.67	E	[700] 600	[78] 67	E	[700] 600	[78] 67	E	[7] 6	[0.78] 0.67	E	[7] 6	[0.78] 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	7,500	E	3,000	7,500	E	30
NAPHTHYLAMINE, 1-	134-32-7	[0.037] 0.041	[0.3] 0.33	E	[0.14] 0.19	[1.1] 1.5	E	[3.7] 4.1	[30] 33	E	[14] 19	[110] 150	E	[37] 41	[300] 330	E	[140] 190	[1,100] 1,500	E	15
NAPHTHYLAMINE, 2-	91-59-8	[0.037] 0.041	[0.012] 0.013	E	[0.14] 0.19	[0.046] 0.062	E	[3.7] 4.1	[1.2] 1.3	E	[14] 19	[4.6] 6.2	E	[37] 41	[12] 13	E	[140] 190	[46] 62	E	NA
NAPROPAMIDE	15299-99-7	[370] 420	[860] 970	E	[1,00] 1,200	[2,300] 2,800	E	7,000	16,000	E	7,000	16,000	E	[370] 420	[860] 970	E	[1,000] 1,200	[2,300] 2,800	E	30
NITROANILINE, M-	99-09-2	[1.1] 1.3	[0.17] 0.2	E	[3.1] 3.5	[0.48] 0.55	E	[110] 130	[17] 20	E	[310] 350	[48] 55	E	[1.1] 1.3	[0.17] 0.2	E	[3.1] 3.5	[0.48] 0.55	E	NA
NITROANILINE, O-	88-74-4	[11] 42	[2] 8	E	[31] 120	[5.5] 21	E	[1,100] 4,200	[200] 750	E	[3,100] 12,000	[550] 2,100	E	[11] 42	[2] 8	E	[31] 120	[5.5] 21	E	NA
NITROANILINE, P-	100-01-6	[3.3] 3.7	[0.49] 0.55	E	[13] 17	[1.9] 2.5	E	[330] 370	[49] 55	E	[1,300] 1,700	[190] 250	E	[3.3] 3.7	[0.49] 0.55	E	[13] 17	[1.9] 2.5	E	NA

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		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		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value				
NITROBENZENE	98-95-3	[7.3] 8.3	[3.2] 3.6	E	[20] 23	[8.7] 10	E	[730] 830	[320] 360	E	[2,000] 2,300	[870] 1,000	E	[7,300] 8,300	[3,200] 3,600	E	10,000	[8,700] 10,000	[E] 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	[29] 33	[5.9] 6.7	E	[82] 93	[17] 19	E	[2,900] 3,300	[590] 670	E	[8,200] 9,300	[1,700] 1,900	E	[29,000] 33,000	[5,900] 6,700	E	[82,000] 93,000	[17,00] 19,000	E	NA
NITROPHENOL, 4-	100-02-7	6	4.1	E	6	4.1	E	600	410	E	600	410	E	6,000	4,100	E	6,000	4,100	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	0.0000079	E	0.0005 8	0.0001	E	0.0045	0.0008	E	0.058	0.01	E	0.00045	0.00008	E	0.0058	0.001	E	NA
NITROSODIMETHYLAMINE, N-	62-75-9	0.0001 4	0.000019	E	0.0018	0.00024	E	0.014	0.0019	E	0.18	0.024	E	0.0014	0.00019	E	0.018	0.0024	E	NA
NITROSO-DI-N-BUTYLAMINE, N-	924-16-3	[0.012] 0.014	[0.015] 0.017	E	[0.04] 8 0.063	[0.059] 0.078	E	[1.2] 1.4	[1.5] 1.7	E	[4.8] 6.3	[5.9] 7.8	E	[12] 14	[15] 17	E	[48] 63	[59] 78	E	NA
NITROSODI-N-PROPYLAMINE, N-	621-64-7	[0.0094] 1 0.01	[0.0013] 0.0014	E	[0.03] 7 0.049	[0.0051] 0.0068	E	[0.94] 1	[0.13] 0.14	E	[3.7] 4.9	[0.51] 0.68	E	[9.4] 10	[1.3] 1.4	E	[37] 49	[5.1] 6.8	E	NA
NITROSODIPHENYLAMINE, N-	86-30-6	[13] 15	[20] 23	E	[53] 69	[83] 110	E	[1,300] 1,500	[2,000] 2,300	E	3,500	5,500	E	3,500	5,500	E	3,500	5,500	E	30
NITROSO-N-ETHYLUREA, N-	759-73-9	[0.0008]] 0.0008 4	[0.000092]] 0.000097	E	[0.00] 96] 0.013	[0.001] 1] 0.0015	E	0.08	[0.0092]] 0.0097	E	[0.96] 1.3	[0.11] 0.15	E	0.8	[0.092] 0.097	E	[9.6] 13	[1.1] 1.5	E	NA
OCTYL PHTHALATE, DI-N-	117-84-0	[150] 42	10,000	C	[300] 120	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
PARATHION	56-38-2	[22] 25	[130] 150	E	[61] 70	[360] 410	E	2,000	10,000	C	2,000	10,000	C	[22] 25	[130] 150	E	[61] 70	[360] 410	E	15
PCB-1016 (AROCLOR)	12674-11-2	[0.26] 0.29	[72] 80	E	[0.72] 0.82	[200] 230	E	25	6,900	E	25	6,900	E	[0.26] 0.29	[72] 80	E	[0.72] 0.82	[200] 230	E	10

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REGULATED SUBSTANCE	CASRN	Used Aquifers												Nonuse Aquifers				Soil Buffer Distance (feet)		
		TDS ≤ 2500						TDS > 2500						Residential		Nonresidential				
		Residential		Nonresidential		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	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value			
PCB-1221 (AROCLOR)	11104-28-2	[0.033] 0.037	[0.16] 0.18	E	[0.13] 0.17	[0.63] 0.83	E	[3.3] 3.7	[16] 18	E	[13] 17	[63] 83	E	[0.033] 0.037	[0.16] 0.18	E	[0.13] 0.17	[0.63] 0.83	E	20
PCB-1232 (AROCLOR)	11141-16-5	[0.033] 0.037	[0.13] 0.14	E	[0.13] 0.17	[0.5] 0.7	E	[3.3] 3.7	[13] 14	E	[13] 17	[50] 66	E	[0.033] 0.037	[0.13] 0.14	E	[0.13] 0.17	[0.5] 0.7	E	20
PCB-1242 (AROCLOR)	53469-21-9	[0.033] 0.037	4	E	[0.13] 0.17	[16] 20	E	[3.3] 3.7	[400] 440	E	10	1,200	E	[0.033] 0.037	4	E	[0.13] 0.17	[16] 20	E	10
PCB-1248 (AROCLOR)	12672-29-6	[0.033] 0.037	[16] 18	E	[0.13] 0.17	[62] 81	E	[3.3] 3.7	[1,600] 1,800	E	5.4	2,600	E	[0.033] 0.037	[16] 18	E	[0.13] 0.17	[62] 81	E	10
PCB-1254 (AROCLOR)	11097-69-1	[0.033] 0.037	[67] 75	E	[0.13] 0.17	[260] 340	E	[3.3] 3.7	[6,700] 7,500	E	5.7	10,000	C	[0.033] 0.037	[67] 75	E	[0.13] 0.17	[260] 340	E	5
PCB-1260 (AROCLOR)	11096-82-5	[0.033] 0.037	[150] 170	E	[0.13] 0.17	[590] 770	E	[3.3] 3.7	[15,000] 17,000	E	8	36,000	E	[0.033] 0.037	[150] 170	E	[0.13] 0.17	[590] 770	E	5
PEBULATE	1114-71-2	[180] 210	[300] 350	E	[510] 580	[860] 980	E	9,200	10,000	C	9,200	10,000	C	[180] 210	[300] 350	E	[510] 580	[860] 980	E	30
PENTACHLOROBENZENE	608-93-5	[2.9] 3.3	[230] 260	E	[8.2] 9.3	[660] 750	E	74	5,900	E	74	5,900	E	74	5,900	E	74	5,900	E	10
PENTACHLOROETHANE	76-01-7	[0.73] 0.81	[3.6] 3.9	E	[2.9] 3.8	[14] 19	E	[73] 81	[360] 390	E	[290] 380	[1,400] 1,900	E	[0.73] 0.81	[3.6] 3.9	E	[2.9] 3.8	[14] 19	E	20
PENTACHLORO NITROBENZENE	82-68-8	[0.25] 0.28	[5] 6	E	1	[20] 26	E	[25] 28	[500] 560	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
PHENACETIN	62-44-2	[30] 33	[12] 13	E	[120] 150	[46] 58	E	[3,000] 3,300	[1,200] 1,300	E	[12,000] 15,000	[4,600] 5,800	E	[30,000] 33,000	[12,000] 13,000	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	[0.037] 4,200	[0.056] 6,400	E	[0.1] 12	[0.15] 18	E	[3.7] 420	[5.6] 640	E	[10] 1,200	[15] 1,800	E	[0.037] 4.2	[0.056] 6.4	E	[0.1] 12	[0.15] 18	E	30
PHENYLENEDIAMINE, M-	108-45-2	[22] 25	[3.1] 3.5	E	[61] 70	[8.6] 9.9	E	[2,200] 2,500	[310] 350	E	[6,100] 7,000	[860] 990	E	[22,000] 25,000	[3,100] 3,500	E	[61,000] 70,000	[8,600] 9,900	E	NA
PHENYLPHENOL, 2-	90-43-7	[35] 38	[500] 550	E	[140] 180	[2,000] 2,600	E	[3,500] 3,800	[50,000] 55,000	E	[14,000] 18,000	190,000	C	[35,000] 38,000	190,000	C	70,000	190,000	C	15

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REGULATED SUBSTANCE	CASRN	Used Aquifers										Nonuse Aquifers				Soil Buffer Distance (feet)				
		TDS ≤ 2500					TDS > 2500					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	E	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	E	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value					
PHORATE	298-02-2	[0.73] 0.83	[1.6] 1.8	E	2	[4.3] 4.9	E	[73] 83	[160] 180	E	[200] 230	[430] 490	E	[0.73] 0.83	[1.6] 1.8	E	2	[4.3] 4.9	E	30
PHTHALIC ANHYDRIDE	85-44-9	[7,300] 8,300	[2,300] 2,600	E	[20,000] 23,000	[6,200] 7,100	E	190,000	190,000	C	190,000	190,000	C	190,000	190,000	C	190,000	190,000	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	[270] 310	[170] 190	E	[770] 880	[470] 540	E	1,500	920	E	1,500	920	E	[270] 310	[170] 190	E	[770] 880	[470] 540	E	NA
PROPANIL	709-98-8	[18] 21	[9.2] 11	E	[51] 58	[26] 30	E	[1,800] 2,100	[920] 1,100	E	[5,100] 5,800	[2,600] 3,000	E	[18] 21	[9.2] 11	E	[51] 58	[26] 30	E	NA
PROPANOL, 2- (ISOPROPYL ALCOHOL)	67-63-0	1,500	260	E	6,200	1,100	E	10,000	10,000	C	10,000	10,000	C	1,500	260	E	6,200	1,100	E	NA
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	[150] 210	[290] 400	E	[410] 880	[780] 1,700	E	5,200	9,900	E	5,200	9,900	E	[150] 210	[290] 400	E	[410] 880	[780] 1,700	E	30
PROPYLENE OXIDE	75-56-9	[0.28] 0.3	[0.049] 0.052	E	[1.1] 1.4	[0.19] 0.24	E	[28] 30	[4.9] 5.2	E	[110] 140	[19] 24	E	[0.28] 0.30	[0.049] 0.052	E	[1.1] 1.4	[0.19] 0.24	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
PYRIDINE	110-86-1	[3.7] 4.2	[0.41] 0.47	E	[10] 12	[1.1] 1.3	E	[370] 420	[41] 47	E	[1,000] 1,200	[110] 130	E	[37] 42	[4.1] 4.7	E	[100] 120	[11] 13	E	NA
QUINOLINE	91-22-5	[0.022] 0.024	[0.074] 0.081	E	[0.08] 0.11	[0.29] 0.37	E	[2.2] 2.4	[7.4] 8.1	E	[8.7] 11	[29] 37	E	[22] 24	[74] 81	E	[87] 110	[290] 370	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	[7,300] 8,300	[850] 970	E	[20,000] 23,000	[2,300] 2,700	E	190,000	[85,000] 97,000	E	190,000	190,000	C	[7,300] 8,300	[850] 970	E	[20,000] 23,000	[2,300] 2,700	E	NA
RONNEL	299-84-3	[180] 210	[280] 330	E	[510] 580	[800] 910	E	4,000	6,200	E	4,000	6,200	E	[180] 210	[280] 330	E	[510] 580	[800] 910	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

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		Residential		Nonresidential			Residential		Nonresidential			Residential		Nonresidential						
		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	E	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	E	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value		E			
STRYCHNINE	57-24-9	[1.1] <u>1.3</u>	[0.89] <u>1.1</u>	E	[3.1] <u>3.5</u>	[2.5] <u>2.8</u>	E	[110] <u>130</u>	[89] <u>110</u>	E	[310] <u>350</u>	[250] <u>280</u>	E	[1,100] <u>1,300</u>	[890] <u>1,100</u>	E	[3,100] <u>3,500</u>	[2,500] <u>2,800</u>	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	[1.1] <u>1.3</u>	[5.1] <u>6</u>	E	[3.1] <u>3.5</u>	[14] <u>16</u>	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	0.00003	0.032	E	0.00003	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	0.026	E	0.43	0.13	E	8	2.6	E	43	13	E	8	2.6	E	43	13	E	NA
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	[110] <u>130</u>	[1,700] <u>2,000</u>	E	[310] <u>350</u>	[4,800] <u>5,500</u>	E	[11,000] <u>13,000</u>	[170,000] <u>190,000</u>	[E C]	18,000	190,000	C	18,000	190,000	C	18,000	190,000	C	15
TETRAETHYL LEAD	78-00-2	[0.00037] <u>0.00042</u>	[0.0046] <u>0.0052</u>	E	[0.001] <u>0.0012</u>	[0.012] <u>0.015</u>	E	[0.037] <u>0.042</u>	[0.46] <u>0.52</u>	E	0.1	[1.2] <u>1.5</u>	E	[0.37] <u>0.42</u>	[4.6] <u>0.52</u>	E	1	[12] <u>15</u>	E	15
TETRAETHYLDITHIO PYROPHOSPHATE	3689-24-5	[1.8] <u>2.1</u>	[2.7] <u>3.1</u>	E	[5.1] <u>5.8</u>	[7.6] <u>8.6</u>	E	[180] <u>210</u>	[270] <u>310</u>	E	[510] <u>580</u>	[760] <u>860</u>	E	[1.8] <u>2.1</u>	[2.7] <u>3.1</u>	E	[5.1] <u>5.8</u>	[7.6] <u>8.6</u>	E	30
TETRAHYDROFURAN	109-99-9	[2.5] <u>2.6</u>	[0.55] <u>0.57</u>	E	13	2.8	E	[250] <u>260</u>	[55] <u>57</u>	E	1,300	280	E	[2.5] <u>2.6</u>	[0.55] <u>0.57</u>	E	13	2.8	E	NA
THIOFANOX	39196-18-4	[1.1] <u>1.3</u>	[0.12] <u>0.14</u>	E	[3.1] <u>3.5</u>	[0.34] <u>0.39</u>	E	[110] <u>130</u>	[12] <u>14</u>	E	[310] <u>350</u>	[34] <u>39</u>	E	[1.1] <u>1.3</u>	[0.12] <u>0.14</u>	E	[3.1] <u>3.5</u>	[0.34] <u>0.39</u>	E	NA
THIRAM	137-26-8	[18] <u>21</u>	[47] <u>55</u>	E	[51] <u>58</u>	[130] <u>150</u>	E	[1,800] <u>2,100</u>	[4,700] <u>5,500</u>	E	3,000	7,800	E	[18] <u>21</u>	[47] <u>55</u>	E	[51] <u>58</u>	[130] <u>150</u>	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

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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							
TOLUIDINE, M-	108-44-1	[0.37] 0.41	[0.17] 0.19	E	[1.4] 1.9	[0.65] 0.88	E	[37] 41	[17] 19	E	[140] 190	[65] 88	E	[0.37] 0.41	[0.17] 0.19	E	[1.4] 1.9	[0.65] 0.88	E	NA
TOLUIDINE, O-	95-53-4	[0.37] 4.6	[0.42] 5.2	E	[1.4] 21	[1.6] 24	E	[37] 460	[42] 520	E	[140] 2,100	[160] 2,400	E	[370] 4,600	[420] 5,200	E	[1,400] 10,000	[1,600] 10,000	[E] C	NA
TOLUIDINE, P-	106-49-0	[0.35] 2.4	[0.32] 2.2	E	[1.4] 11	[1.3] 10	E	[35] 240	[32] 220	E	[140] 1,100	[130] 1,000	E	[0.35] 2.4	[0.32] 2.2	E	[1.4] 11	[1.3] 10	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	[47] 54	[240] 280	E	[130] 150	[660] 770	E	400	2,000	E	400	2,000	E	[47] 54	[240] 280	E	[130] 150	[660] 770	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	10,000	C	10,000	10,000	C	10,000	10,000	C	10,000	10,000	C	10,000	10,000	C	10,000	10,000	C	20
TRICHLOROACETIC ACID (HAA)	76-03-9	2	0.32	E	2	0.32	E	200	32	E	200	32	E	2	0.32	E	2	0.332	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	10,000	C	4,400	10,000	C	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	[370] 420	[2,300] 2,600	E	[1,00] 0 1,200	[6,100] 7,300	E	[37,000] 42,000	190,00 0	C	100,000	190,00 0	C	100,000	190,000	C	100,000	190,000	C	15
TRICHLOROPHENOL, 2,4,6-	88-06-2	[3.7] 4.2	[11] 12	E	[10] 12	[29] 34	E	[370] 420	[1,100] 1,200	E	[1,000] 1,200	[2,900] 3,400	E	[3,700] 4,200	[11,00] 0 12,000	E	[10,000] 12,000	[29,00] 0 34,000	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

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					TDS > 2500					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	E	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	E	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value					
TRICHLOROPROPANE, 1,1,2-	598-77-6	[18] 21	[3.1] 3.6	E	[51] 58	[8.7] 9.9	E	[1,800] 2,100	[310] 360	E	[5,100] 5,800	[870] 990	E	[18] 21	[3.1] 3.6	E	[51] 58	[8.7] 9.9	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	[0.21] 0.063	[0.12] 0.037	E	[0.88] 0.26	[0.52] 0.15	E	[21] 6.3	[12] 3.7	E	[88] 26	[52] 15	E	[0.21] 0.063	[0.12] 0.037	E	[0.88] 0.26	[0.52] 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
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	8.4	E	6.2	35	E	150	840	E	620	[3,200] 3,500	E	150	840	E	620	3,500	E	15
TRIMETHYLBENZENE, 1,3,5-	108-67-8	[1.3] 42	[2.3] 74	E	[5.3] 120	[9.3] 210	E	[130] 4,200	[230] 7,400	E	[530] 4,900	[930] 8,600	E	[1.3] 42	[2.3] 74	E	[5.3] 120	[9.3] 210	E	30
TRINITROGLYCEROL (NITROGLYCERIN)	55-63-0	0.5	0.056	E	0.5	0.056	E	50	5.6	E	50	5.6	E	0.5	0.056	E	0.5	0.056	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	[1.1] 1.3	[2.6] 3.1	E	[3.1] 3.5	[7.4] 8.4	E	[110] 130	[260] 310	E	[310] 350	[740] 840	E	[1,100] 1,300	[2,600] 3,100	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	[180] 210	[29] 33	E	[510] 580	[81] 92	E	1,000	160	E	1,000	160	E	[180] 210	[29] 33	E	[510] 580	[81] 92	E	NA

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