

Regional Screening Level (RSL) Chemical-specific Parameters Supporting Table April 2012

Contaminant		Molecular Weight		Henry's Law Constants			Density		Diffusivity in Air		Diffusivity in Water		Organic Carbon		Water Solubility		Permeability	
Analyte	CAS No.	MW	MW Ref	H <sup>+</sup> (unitless)	HLC (atm·m <sup>3</sup> /mole)	H <sup>+</sup> and HLC Ref	Density (g/cm <sup>3</sup> )	Density Ref	Dia (cm <sup>2</sup> /s)	Dia Ref	Diw (cm <sup>2</sup> /s)	Diw Ref	Koc (L/kg)	Koc Ref	S (mg/L)	S Ref	K <sub>p</sub> (cm/hr)	KPREF
ALAR	1596-84-5	160.17	EPI	1.7294E-08	4.23E-10	EPI			0.064422	WATER9	7.5272E-06	WATER9	10	EPI	100000	EPI	0.000199	EPI
Acephate	30560-19-1	183.16	EPI	2.048E-11	5.01E-13	EPI	1.35	CRC89	0.037354	WATER9	7.9758E-06	WATER9	10	EPI	818000	EPI	0.00004	EPI
Acetaldehyde	75-07-0	44.05	EPI	0.0027269	0.0000667	EPI	0.7834	CRC89	0.12771	WATER9	0.0000135	WATER9	1	EPI	1000000	EPI	0.000527	EPI
Acetochlor	34256-82-1	269.77	EPI	9.1169E-07	2.23E-08	EPI			0.045508	WATER9	5.3173E-06	WATER9	298.4	EPI	223	EPI	0.00495	EPI
Acetone	67-64-1	58.08	EPI	0.0014309	0.000035	EPI	0.7845	CRC89	0.105923	WATER9	0.0000115	WATER9	2.364	EPI	1000000	EPI	0.000512	EPI
Acetone Cyanohydrin	75-86-5	85.11	EPI	0.0005315	0.000013	EPI	0.932	CRC89	0.085946	WATER9	0.0000101	WATER9	1	EPI	1000000	EPI	0.000495	EPI
Acetonitrile	75-05-8	41.05	EPI	0.0014105	0.0000345	EPI	0.7857	CRC89	0.134	WATER9	0.0000141	WATER9	4.67	EPI	1000000	EPI	0.000548	EPI
Acetophenone	98-86-2	120.15	EPI	0.0004252	0.0000104	EPI	1.0281	CRC89	0.065222	WATER9	8.7229E-06	WATER9	51.85	EPI	6130	EPI	0.00372	EPI
Acetylaminofluorene, 2-	53-96-3	223.28	EPI	7.8496E-09	1.92E-10	EPI			0.051624	WATER9	6.0319E-06	WATER9	2206	EPI	0	LANGE	0.0104	EPI
Acrolein	107-02-8	56.06	EPI	0.0049877	0.000122	EPI	0.84	CRC89	0.111693	WATER9	0.0000122	WATER9	1	EPI	212000	EPI	0.000748	EPI
Acrylamide	79-06-1	71.08	EPI	6.9501E-08	1.7E-09	EPI	1.222	LANGE	0.110399	WATER9	0.0000133	WATER9	5.694	EPI	390000	EPI	0.000224	EPI
Acrylic Acid	79-10-7	72.06	EPI	0.0000151	0.00000037	EPI	1.0511	CRC89	0.102722	WATER9	0.000012	WATER9	1.44	EPI	1000000	EPI	0.00105	EPI
Acrylonitrile	107-13-1	53.06	EPI	0.0056419	0.000138	EPI	0.8007	CRC89	0.11369	WATER9	0.0000123	WATER9	8.511	EPI	74500	EPI	0.00116	EPI
Adiponitrile	111-69-3	108.14	EPI	4.9469E-08	1.21E-09	EPI	0.9676	CRC89	0.070778	WATER9	8.9598E-06	WATER9	20.18	EPI	80000	EPI	0.000237	EPI
Alachlor	15972-60-8	269.77	EPI	3.4015E-07	8.32E-09	EPI	1.133	CRC89	0.022641	WATER9	5.6913E-06	WATER9	312.3	EPI	240	EPI	0.0105	EPI
Aldicarb	116-06-3	190.26	EPI	5.8872E-08	1.44E-09	EPI	1.195	CRC89	0.031868	WATER9	7.2458E-06	WATER9	24.64	EPI	6030	EPI	0.000755	EPI
Aldicarb Sulfone	1646-88-4	222.26	EPI	1.3778E-07	3.37E-09	EPI			0.051782	WATER9	6.0503E-06	WATER9	10	EPI	10000	EPI	0.000371	EPI
Aldrin	309-00-2	364.92	EPI	0.0017989	0.000044	EPI			0.037207	WATER9	4.3473E-06	WATER9	82020	EPI	0.017	EPI	0.293	EPI
Allyl	74223-64-6	381.37	EPI	5.397E-15	1.32E-16	EPI			0.036129	WATER9	4.2214E-06	WATER9	92.5	EPI	9500	EPI	0.000329	EPI
Allyl Alcohol	107-18-6	58.08	EPI	0.000204	0.00000499	EPI	0.854	CRC89	0.109755	WATER9	0.0000121	WATER9	1.904	EPI	1000000	EPI	0.000959	EPI
Allyl Chloride	107-05-1	76.53	EPI	0.4497138	0.011	EPI	0.9376	CRC89	0.093607	WATER9	0.0000108	WATER9	39.6	EPI	3370	EPI	0.0112	EPI
Aluminum	7429-90-5	26.9815	EPI				2.7	CRC89									0.001	RAGSE
Aluminum Phosphide	20859-73-8	57.96	EPI				2.4	CRC89									0.001	RAGSE
Amdro	67485-29-4	494.49	EPI	0.0000899	0.0000022	EPI			0.030384	WATER9	3.5502E-06	WATER9	179700000	EPI	0.006	EPI	1.19	EPI
Ametryn	834-12-8	227.33	EPI	9.9346E-08	2.43E-09	EPI			0.051009	WATER9	0.0000596	WATER9	428.2	EPI	209	EPI	0.00794	EPI
Aminobiphenyl, 4-	92-67-1	169.23	EPI	7.0728E-06	0.000000173	EPI			0.062102	WATER9	7.2561E-06	WATER9	2471	EPI	128.81	EPI	0.014	EPI
Aminophenol, m-	591-27-5	109.13	EPI	1.0957E-08	2.68E-10	EPI			0.0832	WATER9	9.7213E-06	WATER9	90.2	EPI	27000	EPI	0.000527	EPI
Aminophenol, p-	123-30-8	109.13	EPI	1.4677E-08	3.59E-10	EPI			0.0832	WATER9	9.7213E-06	WATER9	90.2	EPI	16000	EPI	0.000407	EPI
Amitraz	33089-61-1	293.42	EPI	0.0004035	0.00000987	EPI	1.128	CRC89	0.021614	WATER9	5.3971E-06	WATER9	257300	EPI	1	EPI	0.16	EPI
Ammonia	7664-41-7	17.03	EPI	0.0006582	0.0000161	PHYSPROP	0.696	CRC89					899000	PERRY			0.001	RAGSE
Ammonium Sulfamate	7773-06-0	97.09	EPI												147000	EPI	0.001	RAGSE
Aniline	62-53-3	93.13	EPI	0.0000826	0.00000202	EPI	1.0217	CRC89	0.083011	WATER9	0.0000101	WATER9	70.23	EPI	36000	EPI	0.00186	EPI
Anthraquinone, 9,10-	84-65-1	208.22	EPI	9.61E-07	2.35E-08	EPI			0.054084	WATER9	6.3193E-06	WATER9	5012	EPI	1.35	EPI	0.019	EPI
Antimony (metallic)	7440-36-0	121.75	EPI				6.68	CRC89									0.001	RAGSE
Antimony Pentoxide	1314-60-9	323.517	CRC89				3.78	CRC89							3000	CRC89	0.001	RAGSE
Antimony Potassium Tartrate	11071-15-1	613.83	EPI												52600	EPI	0.001	RAGSE
Antimony Tetroxide	1332-81-6	307.52	EPI				6.64	CRC89									0.001	RAGSE
Antimony Trioxide	1309-64-4	291.52	EPI				5.58	CRC89									0.001	RAGSE
Apollo	74115-24-5	303.15	EPI	1.5944E-08	3.9E-10	EPI			0.042103	WATER9	4.9194E-06	WATER9	30210	EPI	1	EPI	0.00358	EPI
Aramite	140-57-8	334.86	EPI	7.7678E-06	0.00000019	EPI	1.143	CRC89	0.02029	WATER9	5.0255E-06	WATER9	5550	EPI	2.5922	EPI	0.0328	EPI
Arsenic, Inorganic	7440-38-2	74.9216	EPI				5.75	CRC89									0.001	RAGSE
Arsine	7784-42-1	77.95	EPI				3.186	CRC89							200000	PERRY	0.001	RAGSE
Assure	76578-14-8	372.81	EPI	4.3336E-07	1.06E-08	EPI			0.03668	WATER9	4.2858E-06	WATER9	7736	EPI	0.3	EPI	0.00886	EPI
Asulam	3337-71-1	230.24	EPI	6.991E-11	1.71E-12	EPI			0.050579	WATER9	5.9097E-06	WATER9	27.8	EPI	5000	EPI	0.0000529	EPI
Atrazine	1912-24-9	215.69	EPI	9.6484E-08	2.36E-09	EPI			0.052828	WATER9	6.1726E-06	WATER9	224.5	EPI	34.7	EPI	0.00524	EPI
Auramine	492-80-8	267.38	EPI	1.4881E-07	3.64E-09	EPI			0.045779	WATER9	5.3489E-06	WATER9	4456	EPI	10000	EPI	0.00476	EPI
Avermectin B1	65195-55-3	875.12	EPI	5.397E-26	1.32E-27	EPI			0.020767	WATER9	2.4265E-06	WATER9	876700	EPI	1.4194	EPI	0.0000181	EPI
Azobenzene	103-33-3	182.23	EPI	0.0005519	0.0000135	EPI	1.203	PERRY	0.035909	WATER9	7.4655E-06	WATER9	3759	EPI	6.4	EPI	0.0514	EPI
Barium	7440-39-3	137.33	EPI				3.62	CRC89									0.001	RAGSE
Baygon	114-26-1	209.25	EPI	5.8463E-08	1.43E-09	EPI	1.12	CRC89	0.025745	WATER9	6.5827E-06	WATER9	59.95	EPI	1860	EPI	0.00107	EPI
Bayleton	43121-43-3	293.76	EPI	3.3156E-09	8.11E-11	EPI	1.22	CRC89	0.022429	WATER9	5.6532E-06	WATER9	298.5	EPI	71.5	EPI	0.00244	EPI
Baythroid	68359-37-5	434.3	EPI	1.1856E-06	0.00000029	EPI			0.03313	WATER9	3.871E-06	WATER9	130600	EPI	0.003	EPI	0.0515	EPI
Benefin	1861-40-1	335.29	EPI	0.011897	0.000291	EPI			0.039368	WATER9	4.5998E-06	WATER9	16390	EPI	0.1	EPI	0.0675	EPI
Benomyl	17804-35-2	290.32	EPI	2.016E-10	4.93E-12	EPI			0.043335	WATER9	5.0633E-06	WATER9	336.2	EPI	3.8	EPI	0.000943	EPI
Bentazon	25057-89-0	240.28	EPI	8.9125E-08	2.18E-09	EPI			0.04916	WATER9	5.7439E-06	WATER9	10	EPI	500	EPI	0.00252	EPI
Benzaldehyde	100-52-7	106.13	EPI	0.0010916	0.0000267	EPI	1.0401	CRC89	0.074393	WATER9	9.4627E-06	WATER9	11.09	EPI	6950	EPI	0.00383	EPI
Benzene	71-43-2	78.11	EPI	0.2269011	0.000555	EPI	0.8765	CRC89	0.089538	WATER9	0.0000103	WATER9	145.8	EPI	1790	EPI	0.0149	EPI
Benzenediamine-2-methyl sulfate, 1,4-	6369-59-1	220.24	EPI	8.86E-22	2.17E-23	EPI			0.052098	WATER9	6.0873E-06	WATER9	38.38	EPI	1000000	EPI	3.04E-07	EPI
Benzenethiol	108-98-5	110.17	EPI	0.0136958	0.000335	EPI	1.0775	CRC89	0.072863	WATER9	9.4511E-06	WATER9	233.9	EPI	835	EPI	0.0178	EPI
Benzydine	92-87-5	184.24	EPI	2.8823E-09	7.05E-11	EPI	1.219	Yaws 2008	0.058681	WATER9	6.8564E-06	WATER9	1190	EPI	322	EPI	0.00113	EPI
Benzoic Acid	65-85-0	122.12	EPI	1.5576E-06	3.81E-08	EPI	1.2659	CRC89	0.070194	WATER9	9.7868E-06	WATER9	16.55	EPI	3400	EPI	0.00565	EPI
Benzotrithloride	98-07-7	195.48	EPI	0.0106296	0.00026	EPI	1.3723	CRC89	0.031256	WATER9	7							

Regional Screening Level (RSL) Chemical-specific Parameters Supporting Table April 2012

Contaminant		Molecular Weight		Henry's Law Constants			Density		Diffusivity in Air		Diffusivity in Water		Organic Carbon		Water Solubility		Permeability	
Analyte	CAS No.	MW	MW Ref	H <sup>+</sup> (unitless)	HLC (atm-m <sup>3</sup> /mole)	H <sup>+</sup> and HLC Ref	Density (g/cm <sup>3</sup> )	Density Ref	Dia (cm <sup>2</sup> /s)	Dia Ref	Diw (cm <sup>2</sup> /s)	Diw Ref	Koc (L/kg)	Koc Ref	S (mg/L)	S Ref	K <sub>p</sub> (cm/hr)	KPREF
Benzyl Chloride	100-44-7	126.59	EPI	0.0168438	0.000412	EPI	1.1004	CRC89	0.063362	WATER9	8.8057E-06	WATER9	446.1	EPI	525	EPI	0.0103	EPI
Beryllium and compounds	7440-41-7	9.01	EPI				1.85	CRC89									0.001	RAGSE
Bidrin	141-66-2	237.19	EPI	2.0564E-09	5.03E-11	EPI	1.216	CRC89	0.025047	WATER9	6.4147E-06	WATER9	16.58	EPI	1000000	EPI	0.0000731	EPI
Bifenox	42576-02-3	342.14	EPI	4.4154E-06	0.00000108	EPI			0.038841	WATER9	4.5382E-06	WATER9	3679	EPI	0.398	EPI	0.0179	EPI
Biphenthrin	82657-04-3	422.88	EPI	0.0000409	0.000001	EPI	1.2	CRC89	0.018376	WATER9	4.4983E-06	WATER9	2272000	EPI	0.1	EPI	1.74	EPI
Biphenyl, 1,1'-	92-52-4	154.21	EPI	0.012592	0.000308	EPI	1.04	CRC89	0.047059	WATER9	7.5618E-06	WATER9	5129	EPI	6.94	EPI	0.0943	EPI
Bis(2-chloro-1-methylethyl) ether	108-60-1	171.07	EPI	0.0030335	0.0000742	EPI	1.103	CRC89	0.039889	WATER9	7.3606E-06	WATER9	82.92	EPI	1700	EPI	0.00764	EPI
Bis(2-chloroethoxy)methane	111-91-1	173.04	EPI	0.0001574	0.00000385	EPI			0.061187	WATER9	7.1492E-06	WATER9	14.38	EPI	7800	EPI	0.00122	EPI
Bis(2-chloroethyl)ether	111-44-4	143.01	EPI	0.000695	0.000017	EPI	1.22	CRC89	0.056719	WATER9	8.707E-06	WATER9	32.21	EPI	17200	EPI	0.00178	EPI
Bis(2-ethylhexyl)phthalate	117-81-7	390.57	EPI	0.000011	0.00000027	EPI	0.981	CRC89	0.01734	WATER9	4.1807E-06	WATER9	119600	EPI	0.27	EPI	1.13	EPI
Bis(chloromethyl)ether	542-88-1	114.96	EPI	0.1782502	0.00436	EPI	1.323	CRC89	0.0763	WATER9	0.0000104	WATER9	9.699	EPI	22000	EPI	0.000855	EPI
Bisphenol A	80-05-7	228.29	EPI	3.745E-10	9.16E-12	EPI			0.050866	WATER9	5.9433E-06	WATER9	37670	EPI	120	EPI	0.0132	EPI
Boron And Borates Only	7440-42-8	13.84	EPI				2.34	CRC89									0.001	RAGSE
Boron Trifluoride	7637-07-2	67.81	EPI				2.772	CRC89							3320000	EPI	0.001	RAGSE
Bromate	15541-45-4	79.9	EPI														0.001	RAGSE
Bromo-2-chloroethane, 1-	107-04-0	143.41	EPI	0.0371627	0.000909	EPI	1.7392	CRC89	0.065925	WATER9	0.0000108	WATER9	39.6	EPI	6900	EPI	0.00464	EPI
Bromobenzene	108-86-1	157.01	EPI	0.1009812	0.00247	EPI	1.495	CRC89	0.053713	WATER9	9.3004E-06	WATER9	233.9	EPI	446	EPI	0.02	EPI
Bromochloromethane	74-97-5	129.38	EPI	0.0596893	0.00146	EPI	1.9344	CRC89	0.078692	WATER9	0.0000122	WATER9	21.73	EPI	16700	EPI	0.00255	EPI
Bromodichloromethane	75-27-4	163.83	EPI	0.0866721	0.00212	EPI	1.98	CRC89	0.056263	WATER9	0.0000107	WATER9	31.82	EPI	3030	EPI	0.00402	EPI
Bromoform	75-25-2	252.73	EPI	0.0218724	0.000535	EPI	2.8788	CRC89	0.035732	WATER9	0.0000104	WATER9	31.82	EPI	3100	EPI	0.00235	EPI
Bromomethane	74-83-9	94.94	EPI	0.3000818	0.00734	EPI	1.6755	CRC89	0.100497	WATER9	0.0000135	WATER9	13.22	EPI	15200	EPI	0.00284	EPI
Bromophos	2104-96-3	365.99	EPI	0.008381	0.000205	EPI			0.037134	WATER9	4.3388E-06	WATER9	2019	EPI	0.3	EPI	0.0401	EPI
Bromoxynil	1689-84-5	276.92	EPI	5.3966E-09	1.32E-10	EPI			0.044722	WATER9	5.2254E-06	WATER9	330.1	EPI	130	EPI	0.00783	EPI
Bromoxynil Octanoate	1689-99-2	403.12	EPI	0.0013042	0.0000319	EPI			0.034818	WATER9	4.0681E-06	WATER9	4252	EPI	0.08	EPI	0.0332	EPI
Butadiene, 1,3-	106-99-0	54.09	EPI	3.0089943	0.0736	EPI	0.6149	CRC89	0.100351	WATER9	0.0000103	WATER9	39.6	EPI	735	EPI	0.0164	EPI
Butanol, N-	71-36-3	74.12	EPI	0.0003602	0.00000881	EPI	0.8095	CRC89	0.090042	WATER9	0.0000101	WATER9	3.471	EPI	63200	EPI	0.00231	EPI
Butyl Phenyl Phthlate	85-68-7	312.37	EPI	0.0000515	0.00000126	EPI	1.119	CRC89	0.020832	WATER9	5.1733E-06	WATER9	7155	EPI	2.69	EPI	0.0385	EPI
Butyl alcohol, sec-	78-92-2	74.12	EPI	0.0003704	0.00000906	EPI	0.8063	CRC89	0.089889	WATER9	0.0000101	WATER9	2.919	EPI	181000	EPI	0.00153	EPI
Butylate	2008-41-5	217.37	EPI	0.0034546	0.0000845	EPI	0.9402	CRC89	0.023231	WATER9	5.7927E-06	WATER9	385.7	EPI	45	EPI	0.0541	EPI
Butylated hydroxyanisole	25013-16-5	180.25	EPI	0.0000478	0.00000117	EPI			0.059544	WATER9	6.9572E-06	WATER9	840.7	EPI	742.97	EPI	0.0325	EPI
Butylbenzene, n-	104-51-8	134.22	EPI	0.6500409	0.0159	EPI	0.8601	CRC89	0.052773	WATER9	7.3335E-06	WATER9	1482	EPI	11.8	EPI	0.225	EPI
Butylphthalyl Butylglycolate	85-70-1	336.39	EPI	1.2592E-07	3.08E-09	EPI	1.1	LANGE	0.019866	WATER9	4.8978E-06	WATER9	11240	EPI	8.4709	EPI	0.0116	EPI
Cacodylic Acid	75-60-5	138	EPI						0.071149	WATER9	8.3132E-06	WATER9	43.89	EPI	2000000	EPI	0.00046	EPI
Cadmium (Diet)	7440-43-9	112.41	EPI				8.69	CRC89									0.001	RAGSE
Cadmium (Water)	7440-43-9	112.41	EPI				8.69	CRC89									0.001	RAGSE
Caprolactam	105-60-2	113.16	EPI	1.0343E-06	2.53E-08	EPI	1.02	LANGE	0.069242	WATER9	8.9995E-06	WATER9	24.5	EPI	772000	EPI	0.001	EPI
Captafol	2425-06-1	349.06	EPI	2.0114E-07	4.92E-09	EPI			0.038325	WATER9	4.478E-06	WATER9	782.7	EPI	1.4	EPI	0.00577	EPI
Captan	133-06-2	300.59	EPI	2.8618E-07	0.000000007	EPI	1.74	CRC89	0.026194	WATER9	6.8995E-06	WATER9	252.2	EPI	5.1	EPI	0.00234	EPI
Carbaryl	63-25-2	201.23	EPI	1.3369E-07	3.27E-09	EPI	1.228	CRC89	0.027424	WATER9	7.1216E-06	WATER9	354.8	EPI	110	EPI	0.00431	EPI
Carbofuran	1563-66-2	221.26	EPI	1.2633E-07	3.09E-09	EPI	1.18	CRC89	0.025615	WATER9	6.5684E-06	WATER9	95.25	EPI	320	EPI	0.00313	EPI
Carbon Disulfide	75-15-0	76.13	EPI	0.5887163	0.0144	EPI	1.2632	CRC89	0.106447	WATER9	0.000013	WATER9	21.73	EPI	2160	EPI	0.0114	EPI
Carbon Tetrachloride	56-23-5	153.82	EPI	1.1283729	0.0276	EPI	1.594	CRC89	0.057144	WATER9	9.7849E-06	WATER9	43.89	EPI	793	EPI	0.0163	EPI
Carbosulfan	55285-14-8	380.55	EPI	0.0000209	0.000000512	EPI	1.056	CRC89	0.018239	WATER9	4.4384E-06	WATER9	11960	EPI	0.3	EPI	0.0579	EPI
Carboxin	5234-68-4	235.3	EPI	1.3083E-08	3.2E-10	EPI			0.049851	WATER9	5.8247E-06	WATER9	169.4	EPI	147	EPI	0.00198	EPI
Ceric oxide	1306-38-3	172.11	EPI				7.216	CRC89							107000	EPI	0.001	RAGSE
Chloral Hydrate	302-17-0	165.4	EPI	4.4563E-09	1.09E-10	EPI	1.9081	CRC89	0.054399	WATER9	0.0000104	WATER9	1	EPI	793000	EPI	0.000841	EPI
Chloramben	133-90-4	206.03	EPI	1.5822E-09	3.87E-11	EPI			0.054467	WATER9	6.364E-06	WATER9	21.37	EPI	700	EPI	0.00201	EPI
Chloranil	118-75-2	245.88	EPI	1.3369E-08	3.27E-10	EPI			0.04841	WATER9	5.6564E-06	WATER9	308.1	EPI	250	EPI	0.00194	EPI
Chlordane	12789-03-6	409.78	EPI	0.0019869	0.0000486	EPI			0.034439	WATER9	4.0239E-06	WATER9	33780	EPI	0.056	EPI	0.107	EPI
Chlordecone (Kepone)	143-50-0	490.64	EPI	2.1995E-06	5.38E-08	EPI	1.61	CRC89	0.019647	WATER9	4.9081E-06	WATER9	17500	EPI	2.7	EPI	0.0109	EPI
Chlorfenvinphos	470-90-6	359.58	EPI	1.1815E-06	2.89E-08	EPI			0.037574	WATER9	4.3903E-06	WATER9	1264	EPI	124	EPI	0.00512	EPI
Chlorimuron, Ethyl-	90982-32-4	414.82	EPI	7.441E-14	1.82E-15	EPI			0.03416	WATER9	3.9913E-06	WATER9	71.79	EPI	1200	EPI	0.000338	EPI
Chlorine	7782-50-5	70.91	EPI	0.4783	0.0117	PHYSPROP	2.898	CRC89							6300	EPI	0.001	RAGSE
Chlorine Dioxide	10049-04-4	67.45	EPI				2.757	CRC89									0.001	RAGSE
Chlorite (Sodium Salt)	7758-19-2	90.44	EPI												640000	CRC89	0.001	RAGSE
Chloro-1,1-difluoroethane, 1-	75-68-3	100.5	EPI	2.4039248	0.0588	EPI	1.107	CRC89	0.080393	WATER9	0.0000101	WATER9	43.89	EPI	1400	EPI	0.00989	EPI
Chloro-1,3-butadiene, 2-	126-99-8	88.54	EPI	2.29	0.0561	EPI	0.956	CRC89	0.084147	WATER9	0.00001	WATER9	60.7	EPI	836.92	EPI	0.0238	EPI
Chloro-2-methylaniline HCl, 4-	3165-93-3	141.6	EPI	0.0000814	0.00000199	EPI			0.069938	WATER9	8.1717E-06	WATER9	184.5	EPI	1732.4	EPI	0.00808	EPI
Chloro-2-methylaniline, 4-	95-69-2	141.6	EPI	0.0000814	0.00000199	EPI			0.069938	WATER9	8.1717E-06	WATER9	184.5	EPI	1732.4	EPI	0.00808	EPI
Chloroacetaldehyde, 2-	107-20-0	78.5	EPI	0.00074	0.0000181	EPI	1.19	CRC89	0.101505	WATER9	0.0000123	WATER9	1	EPI	266780	EPI	0.00065	EPI
Chloroacetic Acid	79-11-8	94.5	EPI	3.7858E-07	9.26E-09	EPI	1.4043	CRC89	0.093821	WATER9	0.0000121							

Regional Screening Level (RSL) Chemical-specific Parameters Supporting Table April 2012

Contaminant		Molecular Weight		Henry's Law Constants			Density		Diffusivity in Air		Diffusivity in Water		Organic Carbon		Water Solubility		Permeability	
Analyte	CAS No.	MW	MW Ref	H <sup>+</sup> (unitless)	HLC (atm-m <sup>3</sup> /mole)	H <sup>+</sup> and HLC Ref	Density (g/cm <sup>3</sup> )	Density Ref	Dia (cm <sup>2</sup> /s)	Dia Ref	Diw (cm <sup>2</sup> /s)	Diw Ref	Koc (L/kg)	Koc Ref	S (mg/L)	S Ref	K <sub>p</sub> (cm/hr)	KPREF
Chlorobenzene	108-90-7	112.56	EPI	0.1271464	0.00311	EPI	1.1058	CRC89	0.072131	WATER9	9.4765E-06	WATER9	233.9	EPI	498	EPI	0.0282	EPI
Chlorobenzilate	510-15-6	325.19	EPI	2.9599E-06	7.24E-08	EPI	1.2816	CRC89	0.021777	WATER9	5.4782E-06	WATER9	1539	EPI	13	EPI	0.0331	EPI
Chlorobenzoic Acid, p-	74-11-3	156.57	EPI	1.5863E-06	3.88E-08	EPI	1.541	PERRY	0.054689	WATER9	9.487E-06	WATER9	26.56	EPI	72	EPI	0.012	EPI
Chlorobenzoic acid, 4-	98-56-6	180.56	EPI	1.4186427	0.0347	EPI	1.334	CRC89	0.0385	WATER9	7.9872E-06	WATER9	1606	EPI	11.723	EPI	0.0375	EPI
Chlorobutane, 1-	109-69-3	92.57	EPI	0.6827473	0.0167	EPI	0.8857	CRC89	0.078413	WATER9	9.3274E-06	WATER9	72.17	EPI	1100	EPI	0.0269	EPI
Chlorodifluoromethane	75-45-6	86.47	EPI	1.6598528	0.0406	EPI	1.4909	CRC89	0.103378	WATER9	0.0000133	WATER9	31.82	EPI	2770	EPI	0.00268	EPI
Chloroform	67-66-3	119.38	EPI	0.1500409	0.00367	EPI	1.4788	CRC89	0.07692	WATER9	0.0000109	WATER9	31.82	EPI	7950	EPI	0.00683	EPI
Chloromethane	74-87-3	50.49	EPI	0.3605887	0.00882	EPI	0.911	CRC89	0.123962	WATER9	0.0000136	WATER9	13.22	EPI	5320	EPI	0.00328	EPI
Chloromethyl Methyl Ether	107-30-2	80.51	EPI	0.0124285	0.000304	EPI	1.063	CRC89	0.094973	WATER9	0.0000113	WATER9	5.322	EPI	192400	EPI	0.000905	EPI
Chloronaphthalene, Beta-	91-58-7	162.62	EPI	0.0130826	0.00032	EPI	1.1377	CRC89	0.044691	WATER9	7.7301E-06	WATER9	2478	EPI	11.7	EPI	0.0749	EPI
Chloronitrobenzene, o-	88-73-3	157.56	EPI	0.0003802	0.0000093	EPI	1.368	CRC89	0.051345	WATER9	8.7995E-06	WATER9	370.6	EPI	441	EPI	0.0063	EPI
Chloronitrobenzene, p-	100-00-5	157.56	EPI	0.0001999	0.00000489	EPI	1.2979	CRC89	0.050159	WATER9	8.5261E-06	WATER9	363.2	EPI	225	EPI	0.00793	EPI
Chlorophenol, 2-	95-57-8	128.56	EPI	0.0004579	0.0000112	EPI	1.2634	CRC89	0.066118	WATER9	9.4784E-06	WATER9	306.5	EPI	11300	EPI	0.00799	EPI
Chloropicrin	76-06-2	164.38	EPI	0.0838103	0.00205	EPI	1.6558	CRC89	0.051764	WATER9	9.6198E-06	WATER9	44.19	EPI	1620	EPI	0.00459	EPI
Chloroethanol	1897-45-6	265.91	EPI	0.0000818	0.000002	EPI	1.7	CRC89	0.027579	WATER9	7.3232E-06	WATER9	1041	EPI	0.81	EPI	0.00537	EPI
Chlorotoluene, o-	95-49-8	126.59	EPI	0.1459526	0.00357	EPI	1.0825	CRC89	0.062903	WATER9	8.7194E-06	WATER9	382.9	EPI	374	EPI	0.0572	EPI
Chlorotoluene, p-	106-43-4	126.59	EPI	0.1790679	0.00438	EPI	1.0697	CRC89	0.062571	WATER9	8.6574E-06	WATER9	375.3	EPI	106	EPI	0.0498	EPI
Chlorozotocin	54749-90-5	313.7	EPI	1.5E-20	3.67E-22	EPI			0.041154	WATER9	4.8085E-06	WATER9	10	EPI	1000000	EPI	0.00000991	EPI
Chlorpropham	101-21-3	213.67	EPI	0.0000233	0.000000569	EPI	1.18	CRC89	0.026089	WATER9	6.7074E-06	WATER9	350.7	EPI	89	EPI	0.0213	EPI
Chlorpyrifos	2921-88-2	350.59	EPI	0.0001198	0.00000293	EPI			0.038214	WATER9	4.465E-06	WATER9	7283	EPI	1.12	EPI	0.0334	EPI
Chlorpyrifos Methyl	5598-13-0	322.53	EPI	0.0001533	0.00000375	EPI			0.040399	WATER9	4.7203E-06	WATER9	2193	EPI	4.76	EPI	0.0178	EPI
Chlorsulfuron	64902-72-3	357.77	EPI	1.398E-14	3.42E-16	EPI			0.037701	WATER9	4.405E-06	WATER9	322	EPI	31000	EPI	0.000328	EPI
Chlorothiophos	60238-56-4	361.24	EPI	0.0000491	0.0000012	EPI			0.037459	WATER9	4.3768E-06	WATER9	12790	EPI	0.3	EPI	0.106	EPI
Chromium(III), Insoluble Salts	16065-83-1	52	EPI				5.22	CRC89									0.001	RAGSE
Chromium(VI)	18540-29-9	52	EPI												1690000	CRC89	0.002	RAGSE
Chromium, Total	7440-47-3	52	EPI				7.15	CRC89									0.001	RAGSE
Cobalt	7440-48-4	58.93	EPI				8.86	CRC89									0.0004	RAGSE
Coke Oven Emissions	8007-45-2	78.11	EPI	0.2269011	0.00555	EPI			0.10398	WATER9	0.0000121	WATER9	145.8	EPI	1790	EPI	0.0149	EPI
Copper	7440-50-8	63.55	EPI				8.96	CRC89									0.001	RAGSE
Cresol, m-	108-39-4	108.14	EPI	0.000035	0.00000856	EPI	1.0339	CRC89	0.072872	WATER9	9.3232E-06	WATER9	300.4	EPI	22700	EPI	0.00777	EPI
Cresol, o-	95-48-7	108.14	EPI	0.0000491	0.0000012	EPI	1.0327	CRC89	0.072835	WATER9	9.3168E-06	WATER9	306.5	EPI	25900	EPI	0.00766	EPI
Cresol, p-	106-44-5	108.14	EPI	0.0000409	0.000001	EPI	1.0185	CRC89	0.072394	WATER9	9.2397E-06	WATER9	300.4	EPI	21500	EPI	0.00754	EPI
Cresol, p-chloro-m-	59-50-7	142.59	EPI	0.0001002	0.00000245	EPI			0.069614	WATER9	8.1338E-06	WATER9	491.8	EPI	3830	EPI	0.0285	EPI
Cresols	1319-77-3	108.14	EPI	0.0000491	0.0000012	EPI			0.083707	WATER9	9.7805E-06	WATER9	306.5	EPI	25900	EPI	0.00766	EPI
Crotonaldehyde, trans-	123-73-9	70.09	EPI	0.0007931	0.0000194	EPI	0.8516	CRC89	0.095926	WATER9	0.0000108	WATER9	1.793	EPI	150000	EPI	0.00159	EPI
Cumene	98-82-8	120.2	EPI	0.4701554	0.0115	EPI	0.864	CRC89	0.060304	WATER9	7.8566E-06	WATER9	697.8	EPI	61.3	EPI	0.0897	EPI
Cupferron	135-20-6	155.16	EPI	8.667E-16	2.12E-17	EPI			0.065801	WATER9	7.6883E-06	WATER9	762.4	EPI	204310	EPI	0.0000167	EPI
Cyanazine	21725-46-2	240.7	EPI	1.051E-10	2.57E-12	EPI			0.049102	WATER9	5.7372E-06	WATER9	134.1	EPI	170	EPI	0.00209	EPI
Cyanides																		
~Calcium Cyanide	592-01-8	92.11	EPI												23	EPI	0.001	RAGSE
~Copper Cyanide	544-92-3	89.56	EPI				2.9	CRC89									0.001	RAGSE
~Cyanide (CN-)	57-12-5	27.03	EPI	0.0054374	0.000133	EPI			0.210955	WATER9	0.0000246	WATER9			1000000	EPI	0.001	RAGSE
~Cyanogen	460-19-5	52.04	EPI	0.2207686	0.0054	EPI	0.9537	CRC89	0.123753	WATER9	0.0000138	WATER9			4500000	PERRY	0.00089	RAGSE
~Cyanogen Bromide	506-68-3	105.92	EPI	1	0.0245	EPI	2.015	CRC89	0.098407	WATER9	0.0000141	WATER9					0.000255	RAGSE
~Cyanogen Chloride	506-77-4	61.47	EPI	0.0787186	0.0019412	YAWS	1.186	CRC89	0.120745	WATER9	0.0000142	WATER9			25000000	PERRY	0.000394	RAGSE
~Hydrogen Cyanide	74-90-8	27.03	EPI	0.0054374	0.000133	EPI	0.6876	CRC89	0.167804	WATER9	0.0000168	WATER9			1000000	EPI	0.001	RAGSE
~Potassium Cyanide	151-50-8	65.12	EPI				1.55	CRC89							720000	EPI	0.002	RAGSE
~Potassium Silver Cyanide	506-61-6	199	EPI														0.002	RAGSE
~Silver Cyanide	506-64-9	133.89	EPI				3.95	CRC89							23	EPI	0.001	RAGSE
~Sodium Cyanide	143-33-9	49.01	EPI				1.6	CRC89							582000	CRC89	0.001	RAGSE
~Thiocyanate	463-56-9	59.09	EPI	0.0059689	0.000146	EPI			0.12524	WATER9	0.0000146	WATER9	4.67	EPI	35319	EPI	0.00178	EPI
~Zinc Cyanide	557-21-1	117.43	EPI				1.852	CRC89							17100	EPI	0.0006	RAGSE
Cyclohexane	110-82-7	84.16	EPI	6.1324612	0.15	EPI	0.7739	CRC89	0.079975	WATER9	9.1079E-06	WATER9	145.8	EPI	55	EPI	0.102	EPI
Cyclohexane, 1,2,3,4,5-pentabromo-6-chloro-	87-84-3	513.09	EPI	4.374E-10	1.07E-11	EPI			0.029645	WATER9	3.4638E-06	WATER9	2807	EPI	0.45388	EPI	0.00283	EPI
Cyclohexanone	108-94-1	98.15	EPI	0.0003679	0.000009	EPI	0.9478	CRC89	0.076757	WATER9	9.3792E-06	WATER9	17.38	EPI	25000	EPI	0.00152	EPI
Cyclohexylamine	108-91-8	99.18	EPI	0.0001701	0.00000416	EPI	0.8191	CRC89	0.071293	WATER9	8.5392E-06	WATER9	32.17	EPI	1000000	EPI	0.00425	EPI
Cyhalothrin/karate	68085-85-8	449.86	EPI	0.0000605	0.00000148	EPI			0.032362	WATER9	3.7812E-06	WATER9	341300	EPI	0.005	EPI	0.21	EPI
Cypermethrin	52315-07-8	416.31	EPI	0.0000172	0.00000042	EPI	1.25	CRC89	0.018905	WATER9	4.6534E-06	WATER9	79750	EPI	0.004	EPI	0.0769	EPI
Cyromazine	66215-27-8	166.19	EPI	2.31E-12	5.65E-14	EPI			0.062857	WATER9	7.3443E-06	WATER9	28.73	EPI	13000	EPI	0.000797	EPI
DDD	72-54-8	320.05	EPI	0.0002698	0.0000066	EPI			0.040608	WATER9	4.7447E-06	WATER9	117500	EPI	0.09	EPI	0.251	EPI
DDE, p,p'-	72-55-9	318.03	EPI	0.0017007	0.0000416	EPI			0.04078	WATER9	4.7648E-06	WATER9	117500	EPI	0.04	EPI	0.545	EPI
DDT	50-29-3	354.49	EPI	0.0003401	0.00000832	EPI			0.037933	WATER9	4.4322E-06	WATER9	168600	EPI	0.0055	EPI	0.628	EPI
Dacthal	1861-32-1</																	

Regional Screening Level (RSL) Chemical-specific Parameters Supporting Table April 2012

Contaminant		Molecular Weight		Henry's Law Constants			Density		Diffusivity in Air		Diffusivity in Water		Organic Carbon		Water Solubility		Permeability	
Analyte	CAS No.	MW	MW Ref	H <sup>+</sup> (unitless)	HLC (atm-m <sup>3</sup> /mole)	H <sup>+</sup> and HLC Ref	Density (g/cm <sup>3</sup> )	Density Ref	Dia (cm <sup>2</sup> /s)	Dia Ref	Diw (cm <sup>2</sup> /s)	Diw Ref	Koc (L/kg)	Koc Ref	S (mg/L)	S Ref	K <sub>p</sub> (cm/hr)	KPREF
Dalapon	75-99-0	142.97	EPI	2.314E-06	5.66E-08	EPI	1.389	CRC89	0.060081	WATER9	9.4134E-06	WATER9	3.231	EPI	502000	EPI	0.00323	EPI
Decabromodiphenyl ether, 2,2',3,3',4,4',5,5',6,6'- (BDE-209)	1163-19-5	959.17	EPI	1.8193E-06	4.45E-08	EPI	3	IRIS	0.019535	WATER9	2.2826E-06	WATER9	276200	EPI	0.0001	EPI	0.725	EPI
Demeton	8065-48-3	258.33	EPI						0.046841	WATER9	5.473E-06	WATER9	837.9	EPI	60	EPI	0.00761	EPI
Di(2-ethylhexyl)adipate	103-23-1	370.58	EPI	0.0000177	0.00000434	EPI	0.922	CRC89	0.017291	WATER9	4.157E-06	WATER9	36000	EPI	0.78	EPI	3.23	EPI
Diallate	2303-16-4	270.22	EPI	0.0001554	0.0000038	EPI			0.045458	WATER9	5.3114E-06	WATER9	644.3	EPI	14	EPI	0.046	EPI
Diazinon	333-41-5	304.35	EPI	4.6198E-06	0.00000113	EPI	1.1088	CRC89	0.021026	WATER9	5.2259E-06	WATER9	3034	EPI	40	EPI	0.0104	EPI
Dibromo-3-chloropropane, 1,2-	96-12-8	236.33	EPI	0.0060098	0.000147	EPI	2.093	CRC89	0.032135	WATER9	8.9048E-06	WATER9	115.8	EPI	1230	EPI	0.00685	EPI
Dibromobenzene, 1,4-	106-37-6	235.91	EPI	0.0365086	0.000893	EPI	2.261	CRC89	0.033276	WATER9	9.3369E-06	WATER9	375.3	EPI	20	EPI	0.0245	EPI
Dibromochloromethane	124-48-1	208.28	EPI	0.0320114	0.000783	EPI	2.451	CRC89	0.036636	WATER9	0.0000106	WATER9	31.82	EPI	2700	EPI	0.00289	EPI
Dibromoethane, 1,2-	106-93-4	187.86	EPI	0.026574	0.00065	EPI	2.1683	CRC89	0.043035	WATER9	0.0000104	WATER9	39.6	EPI	3910	EPI	0.00278	EPI
Dibromomethane (Methylene Bromide)	74-95-3	173.84	EPI	0.0336059	0.000822	EPI	2.4969	CRC89	0.055137	WATER9	0.0000119	WATER9	21.73	EPI	11900	EPI	0.00223	EPI
Dibutyl Phthalate	84-74-2	278.35	EPI	0.000074	0.00000181	EPI	1.0465	CRC89	0.021426	WATER9	5.3255E-06	WATER9	1157	EPI	11.214	EPI	0.042	EPI
Dibutyltin Compounds	NA																	
Dicamba	1918-00-9	221.04	EPI	8.9125E-08	2.18E-09	EPI	1.57	CRC89	0.029224	WATER9	7.8006E-06	WATER9	29.01	EPI	8310	EPI	0.00265	EPI
Dichloro-2-butene, 1,4-	764-41-0	125	EPI	0.0271464	0.000664	EPI	1.188	LANGE	0.066505	WATER9	0.0000929	WATER9	131.5	EPI	580	EPI	0.0166	EPI
Dichloro-2-butene, cis-1,4-	1476-11-5	125	EPI	0.0271464	0.000664	EPI	1.188	CRC89	0.066505	WATER9	0.0000929	WATER9	131.5	EPI	580	EPI	0.0166	EPI
Dichloro-2-butene, trans-1,4-	110-57-6	125	EPI	0.0271464	0.000664	EPI	1.183	CRC89	0.066382	WATER9	9.2665E-06	WATER9	131.5	EPI	850	EPI	0.0166	EPI
Dichloroacetic Acid	79-43-6	128.94	EPI	3.426E-07	8.38E-09	EPI	1.5634	CRC89	0.072234	WATER9	0.0000108	WATER9	2.252	EPI	1000000	EPI	0.00121	EPI
Dichlorobenzene, 1,2-	95-50-1	147	EPI	0.0784955	0.00192	EPI	1.3059	CRC89	0.05617	WATER9	8.9213E-06	WATER9	382.9	EPI	156	EPI	0.0446	EPI
Dichlorobenzene, 1,4-	106-46-7	147	EPI	0.0985282	0.00241	EPI	1.2475	CRC89	0.055043	WATER9	8.6797E-06	WATER9	375.3	EPI	81.3	EPI	0.0453	EPI
Dichlorobenzidine, 3,3'-	91-94-1	253.13	EPI	1.64E-07	4.0114E-09	SSL			0.047482	WATER9	5.5478E-06	WATER9	3190	EPI	3.1	EPI	0.0128	EPI
Dichlorobenzophenone, 4,4'-	90-98-2	251.11	EPI	0.0000437	0.00000107	EPI	1.45	CRC89	0.026393	WATER9	6.8893E-06	WATER9	2927	EPI	7.802	EPI	0.0542	EPI
Dichlorodifluoromethane	75-71-8	120.91	EPI	14.022895	0.343	EPI	1.486	PERRY	0.076029	WATER9	0.0000108	WATER9	43.89	EPI	280	EPI	0.00895	EPI
Dichloroethane, 1,1-	75-34-3	98.96	EPI	0.2297629	0.00562	EPI	1.1757	CRC89	0.083645	WATER9	0.0000106	WATER9	31.82	EPI	5040	EPI	0.00675	EPI
Dichloroethane, 1,2-	107-06-2	98.96	EPI	0.048242	0.00118	EPI	1.2454	CRC89	0.085722	WATER9	0.000011	WATER9	39.6	EPI	8600	EPI	0.0042	EPI
Dichloroethylene, 1,1-	75-35-4	96.94	EPI	1.0670482	0.0261	EPI	1.213	CRC89	0.086314	WATER9	0.000011	WATER9	31.82	EPI	2420	EPI	0.0117	EPI
Dichloroethylene, 1,2- (Mixed Isomers)	540-59-0	96.94	EPI	0.1668029	0.00408	EPI	1.265	PERRY	0.087863	WATER9	0.0000112	WATER9	39.6	EPI	3500	EPI	0.011	EPI
Dichloroethylene, 1,2-cis-	156-59-2	96.94	EPI	0.1668029	0.00408	EPI	1.2837	CRC89	0.088409	WATER9	0.0000113	WATER9	39.6	EPI	6410	EPI	0.011	EPI
Dichloroethylene, 1,2-trans-	156-60-5	96.94	EPI	0.1668029	0.00408	EPI	1.2565	CRC89	0.087613	WATER9	0.0000112	WATER9	39.6	EPI	4520	EPI	0.011	EPI
Dichlorophenol, 2,4-	120-83-2	163	EPI	0.0001754	0.00000429	EPI	1.383	PERRY	0.048577	WATER9	8.6787E-06	WATER9	491.8	EPI	4500	EPI	0.0206	EPI
Dichlorophenoxy Acetic Acid, 2,4-	94-75-7	221.04	EPI	1.4473E-06	3.54E-08	EPI			0.051972	WATER9	6.0726E-06	WATER9	29.63	EPI	677	EPI	0.00664	EPI
Dichlorophenoxybutyric Acid, 4-(2,4-	94-82-6	249.1	EPI	2.3998E-07	5.87E-09	EPI			0.047992	WATER9	5.6075E-06	WATER9	98.4	EPI	46	EPI	0.0139	EPI
Dichloropropane, 1,2-	78-87-5	112.99	EPI	0.1152903	0.00282	EPI	1.159	PERRY	0.07334	WATER9	9.7252E-06	WATER9	60.7	EPI	2800	EPI	0.00753	EPI
Dichloropropane, 1,3-	142-28-9	112.99	EPI	0.0399019	0.000976	EPI	1.1785	CRC89	0.073874	WATER9	9.823E-06	WATER9	72.17	EPI	2750	EPI	0.00776	EPI
Dichloropropanol, 2,3-	616-23-9	128.99	EPI	1.48E-07	3.62E-09	EPI	1.3607	CRC89	0.068017	WATER9	0.0000989	WATER9	5.568	EPI	60820	EPI	0.000983	EPI
Dichloropropene, 1,3-	542-75-6	110.97	EPI	0.1451349	0.00355	EPI	1.217	LANGE	0.076273	WATER9	0.0000101	WATER9	72.17	EPI	2800	EPI	0.00834	EPI
Dichlorvos	62-73-7	220.98	EPI	0.0000235	0.000000574	EPI	1.415	CRC89	0.027877	WATER9	7.3302E-06	WATER9	53.96	EPI	8000	EPI	0.000804	EPI
Dicyclopentadiene	77-73-6	132.21	EPI	2.5551922	0.0625	EPI	0.93	LANGE	0.055746	WATER9	7.7554E-06	WATER9	1513	EPI	13.687	EPI	0.036	EPI
Dieldrin	60-57-1	380.91	EPI	0.0004088	0.00001	EPI	1.75	CRC89	0.023287	WATER9	6.0062E-06	WATER9	20090	EPI	0.195	EPI	0.0326	EPI
Diesel Engine Exhaust	NA																	
Diethanolamine	111-42-2	105.14	EPI	1.5822E-09	3.87E-11	EPI	1.0966	CRC89	0.076805	WATER9	9.8229E-06	WATER9	1	EPI	1000000	EPI	0.0000451	EPI
Diethyl Phthalate	84-66-2	222.24	EPI	0.0000249	0.00000061	EPI	1.232	CRC89	0.026074	WATER9	6.7227E-06	WATER9	104.9	EPI	1080	EPI	0.0036	EPI
Diethylene Glycol Monobutyl Ether	112-34-5	162.23	EPI	2.9436E-07	7.2E-09	EPI	0.9553	CRC89	0.041438	WATER9	6.9707E-06	WATER9	10	EPI	1000000	EPI	0.000454	EPI
Diethylene Glycol Monoethyl Ether	111-90-0	134.18	EPI	9.1169E-07	2.23E-08	EPI	0.9885	CRC89	0.056241	WATER9	7.9734E-06	WATER9	1	EPI	1000000	EPI	0.000121	EPI
Diethylformamide	617-84-5	101.15	EPI	5.3148E-06	0.00000013	EPI	0.908	CRC89	0.073301	WATER9	8.9773E-06	WATER9	2.06	EPI	1000000	EPI	0.000457	EPI
Diethylstilbestrol	56-53-1	268.36	EPI	2.371E-10	5.8E-12	EPI			0.045668	WATER9	5.3359E-06	WATER9	274100	EPI	12	EPI	0.114	EPI
Difenzoquat	43222-48-6	360.43	EPI						0.037515	WATER9	4.3833E-06	WATER9	78380	EPI	817000	EPI	0.000402	EPI
Diffubenzuron	35367-38-5	310.69	EPI	1.8806E-07	4.6E-09	EPI			0.041419	WATER9	4.8395E-06	WATER9	463.2	EPI	0.08	EPI	0.0107	EPI
Difluoroethane, 1,1-	75-37-6	66.05	EPI	0.8299264	0.0203	EPI	0.896	CRC89	0.102316	WATER9	0.0000115	WATER9	31.82	EPI	3200	EPI	0.0021	EPI
Dihydrosofrole	94-58-6	164.21	EPI	6.7457073	0.165	EPI			0.063361	WATER9	7.4032E-06	WATER9	207.2	EPI	5.7727	EPI	0.0452	EPI
Diisopropyl Ether	108-20-3	102.18	EPI	0.1046607	0.00256	EPI	0.7192	CRC89	0.065423	WATER9	7.7582E-06	WATER9	22.79	EPI	8800	EPI	0.00428	EPI
Disopropyl Methylphosphonate	1445-75-6	180.19	EPI	0.0017907	0.00000438	EPI			0.059557	WATER9	6.9588E-06	WATER9	42.2	EPI	1500	EPI	0.000738	EPI
Dimethipin	55290-64-7	210.26	EPI	9.403E-10	2.3E-11	EPI			0.053734	WATER9	6.2784E-06	WATER9	10	EPI	4600	EPI	0.000798	EPI
Dimethoate	60-51-5	229.25	EPI	9.9346E-09	2.43E-10	EPI	1.277	CRC89	0.026086	WATER9	6.7422E-06	WATER9	12.77	EPI	23300	EPI	0.000267	EPI
Dimethoxybenzidine, 3,3'-	119-90-4	244.3	EPI	1.9052E-09	4.66E-11	EPI			0.048619	WATER9	5.6807E-06	WATER9	508.8	EPI	60	EPI	0.00106	EPI
Dimethyl methylphosphonate	756-79-6	124.08	EPI	0.0000511	0.00000125	EPI	1.1684	CRC89	0.06658	WATER9	9.2386E-06	WATER9	5.407	EPI	1000000	EPI	0.000124	EPI
Dimethylamino azobenzene [p-]	60-11-7	225.3	EPI	9.5666E-06	0.00000234	EPI			0.051315	WATER9	5.9958E-06	WATER9	2028	EPI	0.23	EPI	0.0943	EPI
Dimethylaniline HCl, 2,4-	21436-96-4	121.18	EPI	0.0001022	0.0000025	EPI			0.077589	WATER9	9.0657E-06	WATER9	184.5	EPI	2175.5	EPI	0.00428	EPI
Dimethylaniline, 2,4-	95-68-1																	

Regional Screening Level (RSL) Chemical-specific Parameters Supporting Table April 2012

Contaminant		Molecular Weight		Henry's Law Constants			Density		Diffusivity in Air		Diffusivity in Water		Organic Carbon		Water Solubility		Permeability	
Analyte	CAS No.	MW	MW Ref	H <sup>+</sup> (unitless)	HLC (atm-m <sup>3</sup> /mole)	H <sup>+</sup> and HLC Ref	Density (g/cm <sup>3</sup> )	Density Ref	Dia (cm <sup>2</sup> /s)	Dia Ref	Diw (cm <sup>2</sup> /s)	Diw Ref	Koc (L/kg)	Koc Ref	S (mg/L)	S Ref	K <sub>p</sub> (cm/hr)	KPREF
Dimethylhydrazine, 1,2-	540-73-8	60.1	EPI	2.8414E-06	6.95E-08	EPI	0.8274	CRC89	0.105769	WATER9	0.0000116	WATER9	14.87	EPI	1000000	EPI	0.000317	EPI
Dimethylphenol, 2,4-	105-67-9	122.17	EPI	0.0000389	0.000000951	EPI	0.965	CRC89	0.062245	WATER9	8.314E-06	WATER9	491.8	EPI	7870	EPI	0.0109	EPI
Dimethylphenol, 2,6-	576-26-1	122.17	EPI	0.0002719	0.00000665	EPI			0.077169	WATER9	9.0166E-06	WATER9	501.9	EPI	6050	EPI	0.012	EPI
Dimethylphenol, 3,4-	95-65-8	122.17	EPI	0.000017	0.000000415	EPI	0.983	CRC89	0.062762	WATER9	8.4067E-06	WATER9	491.8	EPI	4760	EPI	0.0098	EPI
Dimethylterephthalate	120-61-6	194.19	EPI	0.0054783	0.000134	EPI	1.075	CRC89	0.028533	WATER9	6.7171E-06	WATER9	30.96	EPI	19	EPI	0.00399	EPI
Dimethylvinylchloride	513-37-1	90.55	EPI	3.311529	0.081	EPI	0.9186	CRC89	0.081174	WATER9	9.6608E-06	WATER9	60.7	EPI	1000	EPI	0.0253	EPI
Dinitro-o-cresol, 4,6-	534-52-1	198.14	EPI	0.0000572	0.00000014	EPI			0.055904	WATER9	6.5319E-06	WATER9	754.4	EPI	198	EPI	0.00315	EPI
Dinitro-o-cyclohexyl Phenol, 4,6-	131-89-5	266.26	EPI	1.3818E-09	3.38E-11	EPI			0.045907	WATER9	5.3639E-06	WATER9	16540	EPI	15	EPI	0.0275	EPI
Dinitrophenol, 1,2-	528-29-0	168.11	EPI	2.1791E-06	5.33E-08	EPI	1.3119	CRC89	0.044718	WATER9	8.2538E-06	WATER9	358.8	EPI	133	EPI	0.00237	EPI
Dinitrobenzene, 1,3-	99-65-0	168.11	EPI	2.0033E-06	0.000000049	EPI	1.5751	CRC89	0.048499	WATER9	9.2109E-06	WATER9	351.6	EPI	533	EPI	0.00174	EPI
Dinitrobenzene, 1,4-	100-25-4	168.11	EPI	0.0000151	0.000000037	EPI	1.625	CRC89	0.049167	WATER9	9.3849E-06	WATER9	351.6	EPI	69	EPI	0.00167	EPI
Dinitrophenol, 2,4-	51-28-5	184.11	EPI	3.5159E-06	0.000000086	EPI	1.683	CRC89	0.04067	WATER9	9.0756E-06	WATER9	460.8	EPI	2790	EPI	0.00187	EPI
Dinitrotoluene Mixture, 2,4/2,6-	25321-14-6	182.14	EPI	0.0000162	0.000000397	EPI			0.059131	WATER9	6.909E-06	WATER9	587.4	EPI	270	EPI	0.00416	EPI
Dinitrotoluene, 2,4-	121-14-2	182.14	EPI	2.2077E-06	0.000000054	EPI	1.3208	CRC89	0.037512	WATER9	7.8982E-06	WATER9	575.6	EPI	200	EPI	0.00308	EPI
Dinitrotoluene, 2,6-	606-20-2	182.14	EPI	0.0000305	0.000000747	EPI	1.2833	CRC89	0.037026	WATER9	7.7629E-06	WATER9	587.4	EPI	182	SSL	0.0037	EPI
Dinitrotoluene, 2-Amino-4,6-	35572-78-2	197.15	EPI	6.6231E-09	1.62E-10	EPI			0.056091	WATER9	6.5537E-06	WATER9	283	EPI	319.49	EPI	0.00204	EPI
Dinitrotoluene, 4-Amino-2,6-	19406-51-0	197.15	EPI	6.6231E-09	1.62E-10	EPI			0.056091	WATER9	6.5537E-06	WATER9	283	EPI	319.49	EPI	0.00204	EPI
Dinoseb	88-85-7	240.22	EPI	0.0000186	0.000000456	EPI	1.265	CRC89	0.025346	WATER9	6.5187E-06	WATER9	4294	EPI	52	EPI	0.0163	EPI
Dioxane, 1,4-	123-91-1	88.11	EPI	0.0001962	0.00000048	EPI	1.0337	CRC89	0.087372	WATER9	0.0000105	WATER9	2.633	EPI	1000000	EPI	0.000332	EPI
Dioxins																		
**Hexachlorodibenzo-p-dioxin, Mixture	NA	390.87	EPI	0.000233	0.00000057	EPI			0.042683	WATER9	4.1527E-06	WATER9	695200	EPI	0.000004	EPI	2.86	EPI
**TCDD, 2,3,7,8-	1746-01-6	321.98	EPI	0.0020442	0.00005	EPI			0.047028	WATER9	4.7257E-06	WATER9	249100	EPI	0.0002	EPI	0.808	EPI
Diphenamid	957-51-7	239.32	EPI	1.4841E-09	3.63E-11	EPI	1.17	CRC89	0.024483	WATER9	6.2344E-06	WATER9	4798	EPI	260	EPI	0.00563	EPI
Diphenyl Sulfone	127-63-9	218.27	EPI	0.0000102	0.000000249	EPI	1.252	CRC89	0.026518	WATER9	6.8618E-06	WATER9	1109	EPI	0	LANGE	0.00367	EPI
Diphenylamine	122-39-4	169.23	EPI	0.00011	0.000000269	EPI	1.158	CRC89	0.041706	WATER9	7.628E-06	WATER9	825.8	EPI	53	EPI	0.0373	EPI
Diphenylhydrazine, 1,2-	122-66-7	184.24	EPI	0.0000195	0.000000478	EPI	1.158	CRC89	0.034312	WATER9	7.2488E-06	WATER9	1505	EPI	221	EPI	0.013	EPI
Diquat	85-00-7	344.05	EPI	5.805E-12	1.42E-13	EPI	1.24	CRC89	0.02081	WATER9	5.1922E-06	WATER9	9272	EPI	708000	EPI	2.44E-07	EPI
Direct Black 38	1937-37-7	737.77	EPI	3.365E-38	8.23E-40	EPI			0.023271	WATER9	2.719E-06	WATER9	242000000	EPI	55.937	EPI	0.000205	EPI
Direct Blue 6	2602-46-2	821.67	EPI	6.705E-42	1.64E-43	EPI			0.021658	WATER9	2.5306E-06	WATER9	790800000	EPI	8.2167E-07	EPI	1.73E-09	EPI
Direct Brown 95	16071-86-6	760.11	EPI						0.022812	WATER9	2.6654E-06	WATER9	69850000	EPI	9.7133E-07	EPI	3.87E-12	EPI
Disulfoton	298-04-4	274.39	EPI	0.0000883	0.000000216	EPI	1.144	CRC89	0.022543	WATER9	5.6664E-06	WATER9	837.9	EPI	16.3	EPI	0.0212	EPI
Dithiane, 1,4-	505-29-3	120.23	EPI	0.0017171	0.000042	EPI			0.077997	WATER9	9.1133E-06	WATER9	145.8	EPI	3000	EPI	0.00108	EPI
Diuron	330-54-1	233.1	EPI	2.0605E-08	5.04E-10	EPI			0.050164	WATER9	5.8613E-06	WATER9	109.1	EPI	42	EPI	0.00466	EPI
Dodine	2439-10-3	287.45	EPI	3.6836E-09	9.01E-11	EPI			0.043623	WATER9	5.097E-06	WATER9	2482	EPI	630	EPI	0.000222	EPI
EPTC	759-94-4	189.32	EPI	0.00065	0.0000159	EPI	0.9546	CRC89	0.029126	WATER9	6.3511E-06	WATER9	164.1	EPI	375	EPI	0.0184	EPI
Endosulfan	115-29-7	406.92	EPI	0.0026574	0.000065	EPI	1.745	CRC89	0.022485	WATER9	5.7629E-06	WATER9	6761	EPI	0.325	EPI	0.00286	EPI
Endothall	145-73-3	186.17	EPI	1.574E-14	3.85E-16	EPI	1.431	CRC89	0.036747	WATER9	8.1792E-06	WATER9	19.41	EPI	100000	EPI	0.00263	EPI
Endrin	72-20-8	380.91	EPI	0.0004088	0.00001	EPI			0.036158	WATER9	4.2248E-06	WATER9	20090	EPI	0.25	EPI	0.0326	EPI
Epichlorohydrin	106-89-8	92.53	EPI	0.0012428	0.00000304	EPI	1.183	PERRY	0.088865	WATER9	0.0000111	WATER9	9.907	EPI	65900	EPI	0.000944	EPI
Epoxybutane, 1,2-	106-88-7	72.11	EPI	0.0007359	0.00018	EPI	0.8297	CRC89	0.092894	WATER9	0.0000104	WATER9	9.907	EPI	95000	EPI	0.00231	EPI
Ethephon	16672-87-0	144.5	EPI	2.33E-10	5.7E-12	EPI	1.2	CRC89	0.055477	WATER9	8.5676E-06	WATER9	5.028	EPI	1000000	EPI	0.000173	EPI
Ethion	563-12-2	384.46	EPI	0.0000155	0.000000379	EPI	1.22	CRC89	0.019478	WATER9	4.8104E-06	WATER9	882	EPI	2	EPI	0.0255	EPI
Ethoxyethanol Acetate, 2-	111-15-9	132.16	EPI	0.0001308	0.0000032	EPI	0.974	CRC89	0.05695	WATER9	7.9753E-06	WATER9	4.542	EPI	247000	EPI	0.0007	EPI
Ethoxyethanol, 2-	110-80-5	90.12	EPI	0.0000192	0.00000047	EPI	0.9253	CRC89	0.081756	WATER9	9.7308E-06	WATER9	1	EPI	1000000	EPI	0.0003	EPI
Ethyl Acetate	141-78-6	88.11	EPI	0.0054783	0.000134	EPI	0.9003	CRC89	0.082314	WATER9	9.7026E-06	WATER9	5.583	EPI	80000	EPI	0.00153	EPI
Ethyl Acrylate	140-88-5	100.12	EPI	0.0138594	0.000339	EPI	0.9234	CRC89	0.074539	WATER9	9.1242E-06	WATER9	10.65	EPI	15000	EPI	0.00324	EPI
Ethyl Chloride	75-00-3	64.52	EPI	0.4538021	0.0111	EPI	0.8902	CRC89	0.103754	WATER9	0.0000116	WATER9	21.73	EPI	6710	EPI	0.00607	EPI
Ethyl Ether	60-29-7	74.12	EPI	0.0502862	0.00123	EPI	0.7138	CRC89	0.085248	WATER9	9.3639E-06	WATER9	9.699	EPI	60400	EPI	0.00235	EPI
Ethyl Methacrylate	97-63-2	114.15	EPI	0.023426	0.000573	EPI	0.9135	CRC89	0.065344	WATER9	8.3794E-06	WATER9	16.66	EPI	5400	EPI	0.00698	EPI
Ethyl-p-nitrophenyl Phosphonate	2104-64-5	323.31	EPI	0.0000182	0.000000444	EPI	1.27	CRC89	0.021748	WATER9	5.4674E-06	WATER9	15470	EPI	3.11	EPI	0.0361	EPI
Ethylbenzene	100-14-4	106.17	EPI	0.3221586	0.00788	EPI	0.8626	CRC89	0.068465	WATER9	8.4558E-06	WATER9	446.1	EPI	169	EPI	0.0493	EPI
Ethylene Cyanohydrin	109-78-4	71.08	EPI	3.0662E-07	7.5E-09	EPI	1.0404	CRC89	0.10331	WATER9	0.000012	WATER9	1	EPI	1000000	EPI	0.000148	EPI
Ethylene Diamine	107-15-3	60.1	EPI	7.0728E-08	1.73E-09	EPI	0.8979	CRC89	0.109445	WATER9	0.0000122	WATER9	14.87	EPI	1000000	EPI	0.000318	EPI
Ethylene Glycol	107-21-1	62.07	EPI	2.453E-06	0.00000006	EPI	1.1135	CRC89	0.116924	WATER9	0.0000136	WATER9	1	EPI	1000000	EPI	0.0000877	EPI
Ethylene Glycol Monobutyl Ether	111-76-2	118.18	EPI	0.0000654	0.0000016	EPI	0.9015	CRC89	0.062619	WATER9	8.1419E-06	WATER9	2.823	EPI	1000000	EPI	0.00121	EPI
Ethylene Oxide	75-21-8	44.05	EPI	0.0060507	0.000148	EPI	0.8821	CRC89	0.133972	WATER9	0.0000145	WATER9	3.237	EPI	1000000	EPI	0.00056	EPI
Ethylene Thiourea	96-45-7	102.15	EPI	0.0000137	0.000000336	EPI			0.086948	WATER9	0.0000102	WATER9	12.97	EPI	20000	EPI	0.000152	EPI
Ethyleneimine	151-56-4	43.07	EPI	0.0004947	0.0000121	EPI	0.832	CRC89	0.132827									

Regional Screening Level (RSL) Chemical-specific Parameters Supporting Table April 2012

Contaminant		Molecular Weight		Henry's Law Constants			Density		Diffusivity in Air		Diffusivity in Water		Organic Carbon		Water Solubility		Permeability	
Analyte	CAS No.	MW	MW Ref	H <sup>*</sup> (unitless)	HLC (atm-m <sup>3</sup> /mole)	H <sup>*</sup> and HLC Ref	Density (g/cm <sup>3</sup> )	Density Ref	Dia (cm <sup>2</sup> /s)	Dia Ref	Diw (cm <sup>2</sup> /s)	Diw Ref	Koc (L/kg)	Koc Ref	S (mg/L)	S Ref	K <sub>p</sub> (cm/hr)	KPREF
Fluoride	16984-48-8	38	EPI												1.69	EPI	0.001	RAGSE
Fluorine (Soluble Fluoride)	7782-41-4	38	EPI				1.553	CRC89							1.69	EPI	0.001	RAGSE
Fluridone	59756-60-4	329.32	EPI	3.3115E-07	8.1E-09	EPI			0.039842	WATER9	4.6552E-06	WATER9	56770	EPI	12	EPI	0.0028	EPI
Flurprimidol	56425-91-3	312.29	EPI	5.3557E-08	1.31E-09	EPI			0.041278	WATER9	4.823E-06	WATER9	2189	EPI	114	EPI	0.00459	EPI
Flutolanil	66332-96-5	323.32	EPI	1.3001E-07	3.18E-09	EPI			0.040333	WATER9	4.7126E-06	WATER9	2558	EPI	6.53	EPI	0.00691	EPI
Fluvalinate	69409-94-5	502.92	EPI	5.928E-07	1.45E-08	EPI			0.030044	WATER9	3.5104E-06	WATER9	730000	EPI	0.005	EPI	0.0792	EPI
Folpet	133-07-3	296.56	EPI	3.1316E-06	7.66E-08	EPI			0.042725	WATER9	4.992E-06	WATER9	17.7	EPI	0.8	EPI	0.00266	EPI
Fomesafen	72178-02-0	438.76	EPI	3.078E-11	7.53E-13	EPI	1.28	CRC89	0.018607	WATER9	4.5736E-06	WATER9	1546	EPI	50	EPI	0.000457	EPI
Fonofos	944-22-9	246.32	EPI	0.0002854	0.00000698	EPI	1.16	CRC89	0.024017	WATER9	6.096E-06	WATER9	855.8	EPI	15.7	EPI	0.027	EPI
Formaldehyde	50-00-0	30.03	EPI	0.0000138	0.000000337	EPI	0.815	CRC89	0.167073	WATER9	0.0000174	WATER9	1	EPI	400000	EPI	0.00182	EPI
Formic Acid	64-18-6	46.03	EPI	6.8275E-06	0.000000167	EPI	1.22	CRC89	0.147862	WATER9	0.0000172	WATER9	1	EPI	1000000	EPI	0.000378	EPI
Fosetyl-AL	39148-24-8	354.11	EPI						0.03796	WATER9	4.4353E-06	WATER9	6485	EPI	111000	EPI	0.00000041	EPI
Furans																		
~Dibenzofuran	132-64-9	168.2	EPI	0.0087081	0.000213	EPI	1.0886	CRC89	0.04105	WATER9	7.3773E-06	WATER9	9161	EPI	3.1	EPI	0.0975	EPI
~Furan	110-00-9	68.08	EPI	0.2207686	0.0054	EPI	0.9514	CRC89	0.102673	WATER9	0.0000117	WATER9	79.99	EPI	10000	EPI	0.00505	EPI
~Tetrahydrofuran	109-99-9	72.11	EPI	0.0028823	0.0000705	EPI	0.8833	CRC89	0.095413	WATER9	0.0000108	WATER9	10.75	EPI	1000000	EPI	0.00125	EPI
Furazolidone	67-45-8	225.16	EPI	1.3328E-09	3.26E-11	EPI			0.051337	WATER9	5.9983E-06	WATER9	858.4	EPI	40	EPI	0.000803	EPI
Furfural	98-01-1	96.09	EPI	0.0001541	0.00000377	EPI	1.1594	CRC89	0.085318	WATER9	0.0000107	WATER9	6.083	EPI	74100	EPI	0.000848	EPI
Furium	531-82-8	253.23	EPI	5.437E-14	1.33E-15	EPI			0.047469	WATER9	5.5464E-06	WATER9	577.6	EPI	4205.3	EPI	0.000935	EPI
Furmecyclo	60568-05-0	251.33	EPI	2.8168E-07	6.89E-09	EPI			0.047708	WATER9	5.5743E-06	WATER9	429	EPI	0.3	EPI	0.0499	EPI
Glufosinate, Ammonium	77182-82-2	198.16	EPI	1.034E-22	2.53E-24	EPI			0.0559	WATER9	6.5314E-06	WATER9	10	EPI	1370000	EPI	7.71E-08	EPI
Glutaraldehyde	111-30-8	100.12	EPI	9.7711E-07	2.39E-08	EPI			0.08812	WATER9	0.0000103	WATER9	1	EPI	709980	EPI	0.000325	EPI
Glycidyl	765-34-4	72.06	EPI	0.0000321	0.000000784	EPI	1.1403	CRC89	0.106251	WATER9	0.0000126	WATER9	1	EPI	1000000	EPI	0.000516	EPI
Glyphosate	1071-83-6	169.07	EPI	8.585E-11	2.1E-12	EPI			0.062141	WATER9	7.2606E-06	WATER9	1	EPI	10500	EPI	9.69E-07	EPI
Goal	42874-03-3	361.71	EPI	0.0000335	0.00000082	EPI	1.35	CRC89	0.021124	WATER9	5.3022E-06	WATER9	39900	EPI	0.116	EPI	0.0204	EPI
Guthion	86-50-0	317.32	EPI	9.7711E-07	2.39E-08	EPI	1.44	CRC89	0.023317	WATER9	5.962E-06	WATER9	51.93	EPI	20.9	EPI	0.00175	EPI
Haloxypop, Methyl	69806-40-2	375.73	EPI	0.000013	0.000000319	EPI			0.03649	WATER9	4.2635E-06	WATER9	5454	EPI	9.3	EPI	0.006	EPI
Harmony	79277-27-3	387.39	EPI	1.668E-12	4.08E-14	EPI			0.035754	WATER9	4.1775E-06	WATER9	50.76	EPI	2240	EPI	0.000114	EPI
Heptachlor	76-44-8	373.32	EPI	0.0120196	0.000294	EPI	1.57	CRC89	0.022344	WATER9	5.6959E-06	WATER9	41260	EPI	0.18	EPI	0.143	EPI
Heptachlor Epoxide	1024-57-3	389.32	EPI	0.0008585	0.000021	EPI			0.035636	WATER9	4.1637E-06	WATER9	10110	EPI	0.2	EPI	0.0209	EPI
Hexabromobenzene	87-82-1	551.49	EPI	0.0011488	0.00000281	EPI			0.028253	WATER9	3.3011E-06	WATER9	2807	EPI	0.00016	EPI	0.0136	EPI
Hexabromodiphenyl ether, 2,2',4,4',5,5'- (BDE-153)	68631-49-2														0.0009	IRIS		
Hexachlorobenzene	118-74-1	284.78	EPI	0.0695012	0.0017	EPI	2.044	CRC89	0.028975	WATER9	7.8497E-06	WATER9	6195	EPI	0.0062	EPI	0.254	EPI
Hexachlorobutadiene	87-68-3	260.76	EPI	0.4210957	0.0103	EPI	1.556	CRC89	0.026745	WATER9	7.0264E-06	WATER9	845.2	EPI	3.2	EPI	0.081	EPI
Hexachlorocyclohexane, Alpha-	319-84-6	290.83	EPI	0.0002101	0.000000514	EPI			0.043284	WATER9	5.0574E-06	WATER9	2807	EPI	2	EPI	0.0206	EPI
Hexachlorocyclohexane, Beta-	319-85-7	290.83	EPI	0.0002101	0.000000514	EPI	1.89	CRC89	0.027667	WATER9	7.3955E-06	WATER9	2807	EPI	0.24	EPI	0.0206	EPI
Hexachlorocyclohexane, Gamma- (Lindane)	58-89-9	290.83	EPI	0.0002101	0.000000514	EPI			0.043284	WATER9	5.0574E-06	WATER9	2807	EPI	7.3	EPI	0.0206	EPI
Hexachlorocyclohexane, Technical	608-73-1	290.83	EPI	0.0002101	0.000000514	EPI			0.043284	WATER9	5.0574E-06	WATER9	2807	EPI	8	EPI	0.0206	EPI
Hexachlorocyclopentadiene	77-47-4	272.77	EPI	1.103843	0.027	EPI	1.7019	CRC89	0.027238	WATER9	7.217E-06	WATER9	1404	EPI	1.8	EPI	0.103	EPI
Hexachloroethane	67-72-1	236.74	EPI	0.1590352	0.00389	EPI	2.091	CRC89	0.032094	WATER9	8.8904E-06	WATER9	196.8	EPI	50	EPI	0.0415	EPI
Hexachlorophene	70-30-4	406.91	EPI	2.24E-11	5.48E-13	EPI			0.034601	WATER9	4.0428E-06	WATER9	668600	EPI	140	EPI	0.836	EPI
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	222.12	EPI	8.217E-10	2.01E-11	EPI	1.82	CRC89	0.031154	WATER9	8.4989E-06	WATER9	89.07	EPI	59.7	EPI	0.000336	EPI
Hexamethylene Diisocyanate, 1,6-	822-06-0	168.2	EPI	0.0019624	0.000048	EPI	1.0528	CRC89	0.040426	WATER9	7.2308E-06	WATER9	4818	EPI	179.03	EPI	0.0237	EPI
Hexamethylphosphoramide	680-31-9	179.2	EPI	2.92E-10	7.13E-12	EPI			0.059776	WATER9	6.9844E-06	WATER9	10	EPI	1000000	EPI	0.000237	EPI
Hexane, N-	110-54-3	86.18	EPI	73.589534	1.8	EPI	0.6606	CRC89	0.073106	WATER9	8.1657E-06	WATER9	131.5	EPI	9.5	EPI	0.201	EPI
Hexanedioic Acid	124-04-9	146.14	EPI	1.926E-10	4.71E-12	EPI	1.36	CRC89	0.057682	WATER9	9.1735E-06	WATER9	24.34	EPI	30800	EPI	0.000268	EPI
Hexanone, 2-	591-78-6	100.16	EPI	0.0038103	0.0000932	EPI	0.8113	CRC89	0.070356	WATER9	8.4404E-06	WATER9	14.98	EPI	17200	EPI	0.00355	EPI
Hexazinone	51235-04-2	252.32	EPI	9.24E-11	2.26E-12	EPI	1.25	CRC89	0.024566	WATER9	6.2842E-06	WATER9	129.4	EPI	33000	EPI	0.00102	EPI
Hydrazine	302-01-2	32.05	EPI				1.0036	CRC89							1000000	EPI	0.0000436	RAGSE
Hydrazine Sulfate	10034-93-2	128.1	EPI				1.378	CRC89							30550	PERRY	0.001	RAGSE
Hydrogen Chloride	7647-01-0	35.45	EPI				1.49	CRC89									0.001	RAGSE
Hydrogen Fluoride	7664-39-3	20.01	EPI				0.818	CRC89									0.001	RAGSE
Hydrogen Sulfide	7783-06-4	34.08	EPI				1.393	CRC89							4370000	PERRY	0.001	RAGSE
Hydroquinone	1231-31-9	110.11	EPI	1.9338E-09	4.73E-11	EPI	1.33	CRC89	0.079843	WATER9	0.0000107	WATER9	240.5	EPI	72000	EPI	0.000931	EPI
Imazail	35554-44-0	297.19	EPI	1.0589E-07	2.59E-09	EPI	1.243	CRC89	0.022493	WATER9	5.6772E-06	WATER9	8495	EPI	180	EPI	0.0116	EPI
Imazaquin	81335-37-7	311.34	EPI	2.825E-16	6.91E-18	EPI			0.041362	WATER9	4.8328E-06	WATER9	2386	EPI	90	EPI	0.000483	EPI
Iodine	7553-56-2	253.81	EPI				4.933	CRC89							330	EPI	0.001	RAGSE
Iprodione	36734-19-7	330.17	EPI	1.2756E-07	3.12E-09	EPI			0.039774	WATER9	4.6472E-06	WATER9	52.52	EPI	13.9	EPI	0.00217	EPI
Iron	7439-89-6	55.85	EPI				7.87	CRC89									0.001	RAGSE
Isobutyl Alcohol	78-83-1	74.12	EPI	0.0003998	0.00000978	EPI	0.8018	CRC89	0.089671	WATER9	0.00001	WATER9	2.919	EPI	85000	EPI	0.00192	EPI
Isophorone	78-59-1	138.21	EPI	0.0002715	0.00000664	EPI	0.9255	CRC89	0.052505	WATER9	7.5296E-06	WATER9	65.15	EPI	12000	EPI	0.00354	EPI
Isopropalin	33820-53-0	309.37	EPI	0.004538	0.000111	EPI			0.04									

Regional Screening Level (RSL) Chemical-specific Parameters Supporting Table April 2012

Contaminant		Molecular Weight		Henry's Law Constants			Density		Diffusivity in Air		Diffusivity in Water		Organic Carbon		Water Solubility		Permeability	
Analyte	CAS No.	MW	MW Ref	H <sup>+</sup> (unitless)	HLC (atm-m <sup>3</sup> /mole)	H <sup>+</sup> and HLC Ref	Density (g/cm <sup>3</sup> )	Density Ref	Dia (cm <sup>2</sup> /s)	Dia Ref	Diw (cm <sup>2</sup> /s)	Diw Ref	Koc (L/kg)	Koc Ref	S (mg/L)	S Ref	K <sub>p</sub> (cm/hr)	KPREF
Isopropyl Methyl Phosphonic Acid	1832-54-8	138.1	EPI	2.8128E-07	6.88E-09	EPI			0.071114	WATER9	8.3092E-06	WATER9	7.707	EPI	1000000	EPI	0.000396	EPI
Isoxaben	82558-50-7	332.4	EPI	5.1922E-08	1.27E-09	EPI			0.039596	WATER9	4.6264E-06	WATER9	1262	EPI	1.42	EPI	0.00887	EPI
JP-7	NA																	
Kerb	23950-58-5	256.13	EPI	3.9943E-07	9.77E-09	EPI			0.04711	WATER9	5.5044E-06	WATER9	404.9	EPI	15	EPI	0.0109	EPI
Lactofen	77501-63-4	461.78	EPI	0.0000193	0.000000472	EPI			0.031803	WATER9	3.7159E-06	WATER9	23030	EPI	0.1	EPI	0.00631	EPI
Lead Compounds																		
~Lead acetate	301-04-2	325.29	EPI				3.25	CRC89	0.033366	WATER9	9.5728E-06	WATER9	1	EPI	1600	EPI	0.0000208	EPI
~Lead and Compounds	7439-92-1	207.2	EPI				11.3	CRC89									0.0001	RAGSE
~Lead subacetate	1335-32-6	805.7	EPI						0.021943	WATER9	2.5639E-06	WATER9	10.37	EPI	62500	EPI	1.03E-10	EPI
~Tetraethyl Lead	78-00-2	323.45	EPI	23.221586	0.568	EPI	1.653	CRC89	0.02464	WATER9	6.4025E-06	WATER9	647.9	EPI	0.29	EPI	0.0137	EPI
Linuron	330-55-2	249.1	EPI	2.5552E-07	6.25E-09	EPI			0.047992	WATER9	5.6075E-06	WATER9	339.8	EPI	75	EPI	0.00839	EPI
Lithium	7439-93-2	6.94	EPI				0.534	CRC89									0.001	RAGSE
Londax	83055-99-6	410.4	EPI	1.545E-13	3.78E-15	EPI			0.034405	WATER9	4.0199E-06	WATER9	27.76	EPI	120	EPI	0.000219	EPI
MCPA	94-74-6	200.62	EPI	5.4374E-08	1.33E-09	EPI			0.055442	WATER9	6.4779E-06	WATER9	29.63	EPI	630	EPI	0.0169	EPI
MCPB	94-81-5	228.68	EPI	1.1079E-07	2.71E-09	EPI			0.050808	WATER9	5.9366E-06	WATER9	98.4	EPI	48	EPI	0.0173	EPI
MCPP	93-65-2	214.65	EPI	3.6631E-08	8.96E-10	EPI			0.052999	WATER9	6.1925E-06	WATER9	48.51	EPI	620	EPI	0.0131	EPI
Malathion	121-75-5	330.35	EPI	1.9992E-07	4.89E-09	EPI	1.2076	CRC89	0.020988	WATER9	5.2365E-06	WATER9	31.27	EPI	143	EPI	0.000812	EPI
Maleic Anhydride	108-31-6	98.06	EPI	0.0001607	0.00000393	EPI	1.314	CRC89	0.088395	WATER9	0.0000114	WATER9	1	EPI	163000	PERRY	0.00525	EPI
Maleic Hydrazide	123-33-1	112.09	EPI	1.0834E-09	2.65E-11	EPI			0.081729	WATER9	9.5494E-06	WATER9	3.303	EPI	4510	EPI	0.000102	EPI
Malononitrile	109-77-3	66.06	EPI	5.3557E-06	0.00000131	EPI	1.191	CRC89	0.115073	WATER9	0.0000136	WATER9	3.334	EPI	133000	EPI	0.000266	EPI
Mancozeb	8018-01-7	212.36	EPI	0.0000231	0.000000564	EPI			0.053379	WATER9	6.2369E-06	WATER9	607.6	EPI	1000000	EPI	0.00026	EPI
Maneb	12427-38-2	212.36	EPI	0.0000231	0.000000564	EPI			0.053379	WATER9	6.2369E-06	WATER9	607.6	EPI	1000000	EPI	0.00026	EPI
Manganese (Diet)	7439-96-5	54.94	EPI				7.3	CRC89									0.001	RAGSE
Manganese (Non-diet)	7439-96-5	54.94	EPI				7.3	CRC89									0.001	RAGSE
Mephosfolan	950-10-7	269.32	EPI	4.8651E-09	1.19E-10	EPI			0.045559	WATER9	5.3232E-06	WATER9	636.3	EPI	57	EPI	0.000237	EPI
Mepiquat Chloride	24307-26-4	149.67	EPI	1.762E-10	4.31E-12	EPI			0.067401	WATER9	7.8752E-06	WATER9	66.16	EPI	500000	EPI	0.00000303	EPI
Mercury Compounds																		
~Mercuric Chloride (and other Mercury salts)	7487-94-7	271.5	EPI				5.6	CRC89							69000	EPI	0.001	RAGSE
~Mercury (elemental)	7439-97-6	200.59	EPI	0.467	0.0114228	SSL	13.5336	CRC89	0.0307	SSL	0.0000063	SSL			0.06	EPI	0.001	RAGSE
~Methyl Mercury	22967-92-6	215.63	EPI														0.001	RAGSE
~Phenylmercuric Acetate	62-38-4	336.74	EPI	2.314E-08	5.66E-10	EPI			0.039255	WATER9	4.5866E-06	WATER9	56.44	EPI	4370	EPI	0.000599	EPI
Merphos	150-50-5	298.5	EPI	0.000928	0.0000227	EPI	1.02	CRC89	0.0204	WATER9	5.0288E-06	WATER9	48970	EPI	0.0009971	EPI	4.15	EPI
Merphos Oxide	78-48-8	314.5	EPI	0.000012	0.000000294	EPI	1.057	CRC89	0.02019	WATER9	4.979E-06	WATER9	2350	EPI	2.3	EPI	0.165	EPI
Metalaxyl	57837-19-1	279.34	EPI	1.2061E-07	2.95E-09	EPI			0.044463	WATER9	5.1951E-06	WATER9	38.57	EPI	8400	EPI	0.00058	EPI
Methacrylonitrile	126-98-7	67.09	EPI	0.0100981	0.000247	EPI	0.8001	CRC89	0.096431	WATER9	0.0000106	WATER9	13.05	EPI	25400	EPI	0.00186	EPI
Methamidophos	10265-92-6	141.13	EPI	3.5487E-08	8.68E-10	EPI	1.31	CRC89	0.059623	WATER9	9.1593E-06	WATER9	5.407	EPI	1000000	EPI	0.0000744	EPI
Methanol	67-56-1	32.04	EPI	0.000186	0.00000455	EPI	0.7914	CRC89	0.158281	WATER9	0.0000165	WATER9	1	EPI	1000000	EPI	0.000319	EPI
Methidathion	950-37-8	302.32	EPI	2.913E-07	7.17E-09	EPI			0.04218	WATER9	4.9284E-06	WATER9	21.24	EPI	187	EPI	0.000913	EPI
Methomyl	16752-77-5	162.21	EPI	8.054E-10	1.97E-11	EPI	1.2946	CRC89	0.04759	WATER9	8.3658E-06	WATER9	10	EPI	58000	EPI	0.000482	EPI
Methoxy-5-nitroaniline, 2-	99-59-2	168.15	EPI	0.0098E-07	1.47E-08	EPI	1.2068	CRC89	0.043046	WATER9	7.8494E-06	WATER9	71.31	EPI	115	EPI	0.00169	EPI
Methoxychlor	72-43-5	345.66	EPI	8.2993E-06	0.00000203	EPI	1.41	CRC89	0.022085	WATER9	5.5926E-06	WATER9	26890	EPI	0.1	EPI	0.0428	EPI
Methoxyethanol Acetate, 2-	110-49-6	118.13	EPI	0.0000127	0.000000311	EPI	1.0074	CRC89	0.065835	WATER9	8.7052E-06	WATER9	2.492	EPI	1000000	EPI	0.000396	EPI
Methoxyethanol, 2-	109-86-4	76.1	EPI	0.0000135	0.00000033	EPI	0.9647	CRC89	0.095152	WATER9	0.000011	WATER9	1	EPI	1000000	EPI	0.00018	EPI
Methyl Acetate	79-20-9	74.08	EPI	0.0047016	0.000115	EPI	0.9342	CRC89	0.095776	WATER9	0.000011	WATER9	3.064	EPI	243000	EPI	0.000792	EPI
Methyl Acrylate	96-33-3	86.09	EPI	0.0081357	0.000199	EPI	0.9535	CRC89	0.085998	WATER9	0.0000102	WATER9	5.844	EPI	49400	EPI	0.00175	EPI
Methyl Ethyl Ketone (2-Butanone)	78-93-3	72.11	EPI	0.0023262	0.0000569	EPI	0.7999	CRC89	0.091444	WATER9	0.0000102	WATER9	4.51	EPI	223000	EPI	0.000962	EPI
Methyl Hydrazine	60-34-4	46.07	EPI	1.2919E-06	3.16E-08	EPI	0.866	LANGE	0.129093	WATER9	0.000014	WATER9	13.31	EPI	1000000	EPI	0.000173	EPI
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	108-10-1	100.16	EPI	0.0056419	0.000138	EPI	0.7965	CRC89	0.06978	WATER9	8.3477E-06	WATER9	12.6	EPI	19000	EPI	0.00319	EPI
Methyl Isocyanate	624-83-9	57.05	EPI	0.0378577	0.000926	EPI	0.9588	CRC89	0.116552	WATER9	0.0000131	WATER9	39.6	EPI	48330	EPI	0.0025	EPI
Methyl Methacrylate	80-62-6	100.12	EPI	0.0130417	0.000319	EPI	0.9377	CRC89	0.075045	WATER9	9.2087E-06	WATER9	9.14	EPI	15000	EPI	0.00355	EPI
Methyl Parathion	298-00-0	263.21	EPI	4.0883E-06	0.00000001	EPI	1.358	CRC89	0.024985	WATER9	6.4392E-06	WATER9	729.3	EPI	37.7	EPI	0.00416	EPI
Methyl Phosphonic Acid	993-13-5	96.02	EPI	4.988E-10	1.22E-11	EPI			0.090611	WATER9	0.0000106	WATER9	1.407	EPI	20000	EPI	0.000156	EPI
Methyl Styrene (Mixed Isomers)	25013-15-4	118.18	EPI	0.1042518	0.00255	EPI			0.078897	WATER9	9.2184E-06	WATER9	697.8	EPI	89	EPI	0.0699	EPI
Methyl methanesulfonate	66-27-3	110.13	EPI	0.0001648	0.00000403	EPI	1.2943	CRC89	0.078906	WATER9	0.0000106	WATER9	4.332	EPI	200000	LANGE	0.000138	EPI
Methyl tert-Butyl Ether (MTBE)	1634-04-4	88.15	EPI	0.0239984	0.000587	EPI	0.7353	CRC89	0.075268	WATER9	8.5905E-06	WATER9	11.56	EPI	51000	EPI	0.00211	EPI
Methyl-1,4-benzenediamine dihydrochloride, 2-	615-45-2	195.09	EPI	2.61E-16	6.38E-18	EPI			0.056485	WATER9	6.5998E-06	WATER9	201.5	EPI	389.71	EPI	0.0000539	EPI
Methyl-5-Nitroaniline, 2-	99-55-8	152.15	EPI	7.9313E-07	1.94E-08	EPI			0.066666	WATER9	7.7894E-06	WATER9	178.6	EPI	613.11	EPI	0.00384	EPI
Methyl-N-nitro-N-nitrosoguanidine, N-	70-25-7	147.09	EPI	4.988E-11	1.22E-12	EPI			0.068187	WATER9	7.967E-06	WATER9	72.02	EPI	1000000	EPI	0.0000572	EPI
Methylaniline Hydrochloride, 2-	636-21-5	107.16	EPI	0.0000809	0.00000198	EPI			0.084217	WATER9	9.8401E-06	WATER9	115	EPI	16600	EPI	0.00296	EPI
Methylarsonic acid	124-58-3	139.97	EPI						0.07048	WATER9	8.235E-06	WATER9	43.89	EPI	256000	EPI	0.0000419	EPI
Methylbenzene,1,4-diamine monohydrochloride, 2-	74612-12-7																	
Methylbenzene-1,4-diamine sulfate, 2-	615-50-9																	
Methylcholanthrene, 3-	56-49-5	268.36</																

Regional Screening Level (RSL) Chemical-specific Parameters Supporting Table April 2012

Contaminant		Molecular Weight		Henry's Law Constants			Density		Diffusivity in Air		Diffusivity in Water		Organic Carbon		Water Solubility		Permeability		
Analyte	CAS No.	MW	MW Ref	H <sup>+</sup> (unitless)	HLC (atm-m <sup>3</sup> /mole)	H <sup>+</sup> and HLC Ref	Density (g/cm <sup>3</sup> )	Density Ref	Dia (cm <sup>2</sup> /s)	Dia Ref	Diw (cm <sup>2</sup> /s)	Diw Ref	Koc (L/kg)	Koc Ref	S (mg/L)	S Ref	K <sub>p</sub> (cm/hr)	KPREF	
Methylene Chloride	75-09-2	84.93	EPI	0.13287	0.000325	EPI	1.3266	CRC89	0.099939	WATER9	0.0000125	WATER9	21.73	EPI	13000	EPI	0.00354	EPI	
Methylene-bis(2-chloroaniline), 4,4'-	101-14-4	267.16	EPI	4.661E-10	1.14E-11	EPI			0.045804	WATER9	5.3519E-06	WATER9	5698	EPI	13.9	EPI	0.0197	EPI	
Methylene-bis(N,N-dimethyl) Aniline, 4,4'-	101-61-1	254.38	EPI	4.9469E-06	0.00000121	EPI			0.047326	WATER9	5.5297E-06	WATER9	2667	EPI	5.4926	EPI	0.047	EPI	
Methylenebisbenzenamine, 4,4'-	101-77-9	198.27	EPI	6.46E-10	1.58E-11	EPI			0.055879	WATER9	6.529E-06	WATER9	2126	EPI	1000	EPI	0.00138	EPI	
Methylenediphenyl Diisocyanate	101-68-8	250.26	EPI	0.0000366	0.000000895	EPI	1.197	CRC89	0.024174	WATER9	6.1531E-06	WATER9	284900	EPI	1.836	EPI	0.181	EPI	
Methylstyrene, Alpha-	98-83-9	118.18	EPI	0.1042518	0.00255	EPI	0.9106	CRC89	0.062902	WATER9	8.1911E-06	WATER9	697.8	EPI	116	EPI	0.0699	EPI	
Metolachlor	51218-45-2	283.8	EPI	3.6795E-07	0.000000009	EPI	1.12	CRC89	0.021922	WATER9	5.4827E-06	WATER9	488.5	EPI	530	EPI	0.00339	EPI	
Metribuzin	21087-64-9	214.29	EPI	4.7833E-09	1.17E-10	EPI	1.31	CRC89	0.02734	WATER9	7.1291E-06	WATER9	53.13	EPI	1050	EPI	0.00132	EPI	
Mineral oils	8012-95-1	170.34	EPI	334.42355	8.18	EPI			0.061831	WATER9	7.2245E-06	WATER9	4818	EPI	0.0037	EPI	1.96	EPI	
Mirex	2385-85-5	545.55	EPI	0.0331562	0.000811	EPI			0.028458	WATER9	3.325E-06	WATER9	356600	EPI	0.085	EPI	0.0516	EPI	
Molinate	2212-67-1	187.3	EPI	0.0001676	0.0000041	EPI	1.063	CRC89	0.031561	WATER9	6.8182E-06	WATER9	181.9	EPI	970	EPI	0.0189	EPI	
Molybdenum	7439-98-7	95.94	EPI				10.2	CRC89									0.001	RAGSE	
Monochloramine	10599-90-3	51.48	EPI														0.001	RAGSE	
Monomethylaniline	100-61-8	107.16	EPI	0.000363	0.00000888	EPI	0.9891	CRC89	0.0721	WATER9	9.1284E-06	WATER9	82.08	EPI	5620	EPI	0.00498	EPI	
N,N'-Diphenyl-1,4-benzenediamine	74-31-7	260.34	EPI	8.381E-09	2.05E-10	EPI			0.046601	WATER9	5.4449E-06	WATER9	51890	EPI	0	PERRY	0.0262	EPI	
Naled	300-76-5	380.79	EPI	0.0026615	0.0000651	EPI	1.96	CRC89	0.024567	WATER9	0.00000643	WATER9	126.7	EPI	1.5	EPI	0.0000944	EPI	
Naphtha, High Flash Aromatic (HFAN)	64724-95-6																		
Naphthylamine, 2-	91-59-8	143.19	EPI	3.3115E-06	0.000000081	EPI	1.6414	CRC89	0.064451	WATER9	0.0000104	WATER9	2478	EPI	189	EPI	0.00807	EPI	
Napropamide	15299-99-7	271.36	EPI	3.4383E-08	8.41E-10	EPI			0.04533	WATER9	5.2965E-06	WATER9	3218	EPI	73	EPI	0.00804	EPI	
Nickel Carbonyl	13463-39-3	170.734	CRC89				1.31	CRC89							180	PERRY	0.001	RAGSE	
Nickel Oxide	1313-99-1	74.69	EPI				6.72	CRC89									0.001	RAGSE	
Nickel Refinery Dust	NA																	0.0002	RAGSE
Nickel Soluble Salts	7440-02-0	58.69	EPI				8.9	CRC89										0.0002	RAGSE
Nickel Subdisulfide	12035-72-2	240.21	CRC89				5.87	CRC89										0.0002	RAGSE
Nitrate	14797-55-8	62	EPI															0.001	RAGSE
Nitrite	14797-65-0	47.01	EPI															0.001	RAGSE
Nitroaniline, 2-	88-74-4	138.13	EPI	2.4121E-06	0.000000059	EPI	0.9015	CRC89	0.051919	WATER9	7.4144E-06	WATER9	111.3	EPI	1470	EPI	0.00446	EPI	
Nitroaniline, 4-	100-01-6	138.13	EPI	5.1513E-08	1.26E-09	EPI	1.424	CRC89	0.06366	WATER9	9.7545E-06	WATER9	109.1	EPI	728	EPI	0.00221	EPI	
Nitrobenzene	98-95-3	123.11	EPI	0.0009812	0.000024	EPI	1.2037	CRC89	0.068054	WATER9	9.4495E-06	WATER9	226.4	EPI	2090	EPI	0.00541	EPI	
Nitrocellulose	9004-70-0	387.3	EPI	1.345E-21	3.29E-23	EPI			0.035759	WATER9	4.1782E-06	WATER9	10	EPI	1000000	EPI	9.86E-09	EPI	
Nitrofurantoin	67-20-9	238.16	EPI	5.437E-11	1.33E-12	EPI			0.049451	WATER9	5.7779E-06	WATER9	116.8	EPI	79.5	EPI	0.0000352	EPI	
Nitrofurazone	59-87-0	198.14	EPI	1.267E-11	3.1E-13	EPI			0.055904	WATER9	6.5319E-06	WATER9	349.7	EPI	210	EPI	0.000172	EPI	
Nitroglycerin	55-63-0	227.09	EPI	3.5405E-06	8.66E-08	EPI	1.5931	CRC89	0.029015	WATER9	7.7428E-06	WATER9	115.8	EPI	1380	EPI	0.000994	EPI	
Nitroguanidine	556-88-7	104.07	EPI	1.836E-10	4.49E-12	EPI			0.085876	WATER9	0.00001	WATER9	20.65	EPI	4400	EPI	0.000105	EPI	
Nitromethane	75-52-5	61.04	EPI	0.0011693	0.0000286	EPI	1.1371	CRC89	0.119285	WATER9	0.0000139	WATER9	10.32	EPI	111000	EPI	0.000417	EPI	
Nitropropane, 2-	79-46-9	89.09	EPI	0.0048651	0.000119	EPI	0.9821	CRC89	0.084697	WATER9	0.0000102	WATER9	30.8	EPI	17000	EPI	0.00206	EPI	
Nitroso-N-ethylurea, N-	759-73-9	117.11	EPI	5.3966E-09	1.32E-10	EPI			0.079376	WATER9	9.2745E-06	WATER9	20.98	EPI	13000	EPI	0.00049	EPI	
Nitroso-N-methylurea, N-	684-93-5	103.08	EPI	4.0515E-09	9.91E-11	EPI			0.086425	WATER9	0.0000101	WATER9	11	EPI	14400	EPI	0.000395	EPI	
Nitroso-di-N-butylamine, N-	924-16-3	158.25	EPI	0.0005397	0.0000132	EPI			0.064942	WATER9	7.5879E-06	WATER9	914.6	EPI	1270	EPI	0.0113	EPI	
Nitroso-di-N-propylamine, N-	621-64-7	130.19	EPI	0.00022	0.00000538	EPI	0.9163	CRC89	0.05644	WATER9	7.758E-06	WATER9	275.4	EPI	13000	EPI	0.00233	EPI	
Nitrosodiethanolamine, N-	1116-54-7	134.14	EPI	9.321E-15	2.28E-16	EPI			0.072507	WATER9	8.4719E-06	WATER9	1	EPI	1000000	EPI	0.0000391	EPI	
Nitrosodiethylamine, N-	55-18-5	102.14	EPI	0.0001484	0.00000363	EPI	0.9422	CRC89	0.073841	WATER9	9.1252E-06	WATER9	82.92	EPI	106000	EPI	0.000872	EPI	
Nitrosodimethylamine, N-	62-75-9	74.08	EPI	0.0000744	0.00000182	EPI	1.0048	CRC89	0.09877	WATER9	0.0000115	WATER9	22.79	EPI	1000000	EPI	0.000251	EPI	
Nitrosodiphenylamine, N-	86-30-6	198.23	EPI	0.000205	5.0143E-06	SSL			0.055887	WATER9	6.5299E-06	WATER9	2632	EPI	35	EPI	0.0145	EPI	
Nitrosomethylethylamine, N-	10595-95-6	88.11	EPI	0.0000589	0.00000144	EPI			0.095956	WATER9	0.0000112	WATER9	43.47	EPI	300000	EPI	0.000533	EPI	
Nitrosomorpholine [N-]	59-89-2	116.12	EPI	1.0016E-06	2.45E-08	EPI			0.079827	WATER9	9.3271E-06	WATER9	22.51	EPI	1000000	EPI	0.000178	EPI	
Nitrosopiperidine [N-]	100-75-4	114.15	EPI	0.0000345	0.000000844	EPI	1.0631	CRC89	0.06989	WATER9	9.1776E-06	WATER9	167.5	EPI	76500	EPI	0.000622	EPI	
Nitrosopyrrolidine, N-	930-55-2	100.12	EPI	1.9992E-06	4.89E-08	EPI	1.085	CRC89	0.079971	WATER9	0.0000101	WATER9	91.91	EPI	1000000	EPI	0.000321	EPI	
Nitrotoluene, m-	99-08-1	137.14	EPI	0.0003802	0.0000093	EPI	1.1581	CRC89	0.058686	WATER9	8.6541E-06	WATER9	363.2	EPI	500	EPI	0.0113	EPI	
Nitrotoluene, o-	88-72-2	137.14	EPI	0.000511	0.0000125	EPI	1.1611	CRC89	0.058754	WATER9	8.6675E-06	WATER9	370.6	EPI	650	EPI	0.00899	EPI	
Nitrotoluene, p-	99-99-0	137.14	EPI	0.0002302	0.00000563	EPI	1.1038	CRC89	0.057443	WATER9	8.4083E-06	WATER9	363.2	EPI	442	EPI	0.01	EPI	
Nonane, n-	111-84-2	128.26	EPI	139.00245	3.4	EPI	0.7192	CRC89	0.051432	WATER9	6.769E-06	WATER9	796	EPI	0.22	EPI	1.7	EPI	
Norflurazon	27314-13-2	303.67	EPI	1.4023E-08	3.43E-10	EPI			0.042055	WATER9	4.9138E-06	WATER9	3118	EPI	33.7	EPI	0.00105	EPI	
Nustar	85509-19-9	315.4	EPI	0.0000207	0.000000506	EPI			0.041006	WATER9	4.7912E-06	WATER9	81060	EPI	54	EPI	0.00766	EPI	
Octabromodiphenyl Ether	32536-52-0	801.38	EPI	0.0000105	0.000000256	EPI			0.022022	WATER9	2.5731E-06	WATER9	98980	EPI	0.0000743	EPI	0.365	EPI	
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetra (HMX)	2691-41-0	296.16	EPI	3.5446E-08	8.67E-10	EPI			0.042763	WATER9	4.9965E-06	WATER9	531.6	EPI	5	EPI	0.0000436	EPI	
Octamethylpyrophosphoramide	152-16-9	286.25	EPI	2.58E-15	6.31E-17	EPI	1.09	CRC89	0.02154	WATER9	5.3664E-06	WATER9	20.12	EPI	1000000	EPI	0.0000083	EPI	
Oryzalin	19044-88-3	346.36	EPI	7.8087E-08	1.91E-09	EPI			0.038524	WATER9	4.5013E-06	WATER9	825.4	EPI	2.5	EPI	0.00537	EPI	
Oxadiazon	19666-30-9	345.23	EPI	2.9722E-06	7.27E-08	EPI			0.038608	WATER9	4.5111E-06	WATER9	4996	EPI	0.7	EPI	0.028	EPI	
Oxamyl	23135-22-0	219.26	EPI	9.6893E-09	2.37E-10	EPI	0.97	CRC89	0.02347	WATER9	5.8716E-06	WATER9	10	EPI	280000	EPI	0.0000449	EPI	
Paclobutrazol	76738-62-0	293.8	EPI	3.3851E-09	8.28E-11	EPI	1.22	CRC89	0.022428	WATER9	5.6527E-06	WATER9	92						

Regional Screening Level (RSL) Chemical-specific Parameters Supporting Table April 2012

Contaminant		Molecular Weight		Henry's Law Constants			Density		Diffusivity in Air		Diffusivity in Water		Organic Carbon		Water Solubility		Permeability	
Analyte	CAS No.	MW	MW Ref	H <sup>+</sup> (unitless)	HLC (atm·m <sup>3</sup> /mole)	H <sup>+</sup> and HLC Ref	Density (g/cm <sup>3</sup> )	Density Ref	Dia (cm <sup>2</sup> /s)	Dia Ref	Diw (cm <sup>2</sup> /s)	Diw Ref	Koc (L/kg)	Koc Ref	S (mg/L)	S Ref	K <sub>p</sub> (cm/hr)	KPREF
Pebulate	1114-71-2	203.35	EPI	0.0096893	0.000237	EPI	0.9458	CRC89	0.024144	WATER9	6.0507E-06	WATER9	299.1	EPI	100	EPI	0.0397	EPI
Pendimethalin	40487-42-1	281.31	EPI	0.000035	0.00000856	EPI	1.19	CRC89	0.022673	WATER9	5.716E-06	WATER9	5615	EPI	0.3	EPI	0.115	EPI
Pentabromodiphenyl Ether	32534-81-9	564.69	EPI	0.0001447	0.00000354	EPI			0.027811	WATER9	3.2495E-06	WATER9	21660	EPI	0.0000009	EPI	0.0373	EPI
Pentabromodiphenyl ether, 2,2',4,4',5,5'- (BDE-99)	60348-60-9	564.69	EPI	0.0001447	0.00000354	EPI	2.28	IRIS	0.02164	WATER9	5.5584E-06	WATER9	21660	EPI	0.0000009	EPI	0.0373	EPI
Pentachlorobenzene	608-93-5	250.34	EPI	0.0287408	0.000703	EPI	1.8342	CRC89	0.029433	WATER9	7.9473E-06	WATER9	3708	EPI	0.831	EPI	0.168	EPI
Pentachloroethane	76-01-7	202.3	EPI	0.0793132	0.00194	EPI	1.6796	CRC89	0.031517	WATER9	8.5664E-06	WATER9	136.2	EPI	480	EPI	0.0158	EPI
Pentachloronitrobenzene	82-68-8	295.34	EPI	0.001807	0.0000442	EPI	1.718	CRC89	0.026274	WATER9	6.9198E-06	WATER9	5996	EPI	0.44	EPI	0.0418	EPI
Pentachlorophenol	87-86-5	266.34	EPI	1.0016E-06	2.45E-08	EPI	1.978	CRC89	0.02952	WATER9	8.0121E-06	WATER9	4959	EPI	14	EPI	0.127	EPI
Pentaerythritol tetranitrate (PETN)	78-11-5	316.14	EPI	4.906E-10	1.2E-11	EPI	1.773	CRC89	0.025756	WATER9	6.7697E-06	WATER9	647.9	EPI	43	EPI	0.00101	EPI
Pentane, n-	109-66-0	72.15	EPI	51.103843	1.25	EPI	0.6262	CRC89	0.08213	WATER9	8.7975E-06	WATER9	72.17	EPI	38	EPI	0.11	EPI
Perchlorates																		
~Ammonium Perchlorate	7790-98-9	117.49	EPI				1.95	CRC89							200000	EPI	0.001	RAGSE
~Lithium Perchlorate	7791-03-9	106.392	CRC89				2.428	CRC89							587000	CRC89	0.001	RAGSE
~Perchlorate and Perchlorate Salts	14797-73-0	117.49	CRC89												245000	CRC89	0.001	RAGSE
~Potassium Perchlorate	7778-74-7	138.55	EPI				2.52	CRC89							15000	EPI	0.002	RAGSE
~Sodium Perchlorate	7601-89-0	122.44	EPI				2.52	CRC89							2100000	EPI	0.001	RAGSE
Permethrin	52645-53-1	391.3	EPI	0.0000765	0.00000187	EPI	1.23	CRC89	0.019376	WATER9	4.7831E-06	WATER9	118800	EPI	0.006	EPI	0.208	EPI
Phenacetin	62-44-2	179.22	EPI	8.7081E-09	2.13E-10	EPI			0.059772	WATER9	6.9839E-06	WATER9	40.99	EPI	766	EPI	0.00173	EPI
Phenmedipham	13684-63-4	300.32	EPI	3.438E-11	8.41E-13	EPI			0.042367	WATER9	4.9503E-06	WATER9	2594	EPI	4.7	EPI	0.00786	EPI
Phenol	108-95-2	94.11	EPI	0.0000136	0.00000333	EPI	1.0545	CRC89	0.083401	WATER9	0.0000103	WATER9	187.2	EPI	82800	EPI	0.00434	EPI
Phenothiazine	92-84-2	199.27	EPI	0.00000114	2.78E-08	EPI			0.055692	WATER9	6.5072E-06	WATER9	1475	EPI	1.59	EPI	0.0683	EPI
Phenylenediamine, m-	108-45-2	108.14	EPI	5.1104E-08	1.25E-09	EPI	1.0096	CRC89	0.072115	WATER9	9.1911E-06	WATER9	33.83	EPI	238000	EPI	0.000234	EPI
Phenylenediamine, o-	95-54-5	108.14	EPI	2.9436E-07	7.2E-09	EPI			0.083707	WATER9	9.7805E-06	WATER9	34.52	EPI	40400	EPI	0.000487	EPI
Phenylenediamine, p-	106-50-3	108.14	EPI	3.6304E-08	8.88E-10	EPI			0.083707	WATER9	9.7805E-06	WATER9	33.83	EPI	37000	EPI	0.000245	EPI
Phenylphenol, 2-	90-43-7	170.21	EPI	0.0000429	0.00000105	EPI	1.213	CRC89	0.042092	WATER9	7.8162E-06	WATER9	6722	EPI	700	EPI	0.0196	EPI
Phorate	298-02-2	260.37	EPI	0.0001787	0.00000437	EPI	1.16	CRC89	0.023327	WATER9	5.8965E-06	WATER9	459.8	EPI	50	EPI	0.0126	EPI
Phosgene	75-44-5	98.92	EPI	0.6827473	0.0167	EPI	1.3719	CRC89	0.089326	WATER9	0.0000117	WATER9	1	EPI	6825.5	YAWS	0.000147	EPI
Phosmet	732-11-6	317.32	EPI	3.426E-07	8.38E-09	EPI			0.04084	WATER9	4.7719E-06	WATER9	10	EPI	24.4	EPI	0.00183	EPI
Phosphates, Inorganic																		
~Aluminum metaphosphate	13776-88-0	263.9	CRC89				2.779	CRC89									0.001	RAGSE
~Ammonium polyphosphate	68333-79-9																0.001	RAGSE
~Calcium pyrophosphate	7790-76-3	254.1	CRC89				3.09	CRC89									0.001	RAGSE
~Diammonium phosphate	7783-28-0	132.06	EPI														0.001	RAGSE
~Dicalcium phosphate	7757-93-9	136.06	EPI														0.001	RAGSE
~Dimagnesium phosphate	7782-75-4	174.33	CRC89				2.123	CRC89									0.001	RAGSE
~Dipotassium phosphate	7758-11-4	174.18	EPI														0.001	RAGSE
~Disodium phosphate	7558-79-4	141.96	EPI														0.001	RAGSE
~Monoaluminum phosphate	13530-50-2	317.94	CRC89														0.001	RAGSE
~Monoammonium phosphate	7722-76-1	115.03	EPI														0.001	RAGSE
~Monocalcium phosphate	7758-23-8	234.05	EPI														0.001	RAGSE
~Monomagnesium phosphate	7757-86-0	120.28	CRC89														0.001	RAGSE
~Monopotassium phosphate	7778-77-0	136.09	EPI														0.001	RAGSE
~Monosodium phosphate	7558-80-7	119.98	EPI														0.001	RAGSE
~Polyphosphoric acid	8017-16-1	257.96	EPI														0.001	RAGSE
~Potassium tripolyphosphate	13845-36-8																0.001	RAGSE
~Sodium acid pyrophosphate	7758-16-9	221.94	EPI														0.001	RAGSE
~Sodium aluminum phosphate (acidic)	7785-88-8																0.001	RAGSE
~Sodium aluminum phosphate (anhydrous)	10279-59-1																0.001	RAGSE
~Sodium aluminum phosphate (tetrahydrate)	10305-76-7																0.001	RAGSE
~Sodium hexametaphosphate	10124-56-8	611.17	CRC89														0.001	RAGSE
~Sodium polyphosphate	68915-31-1	359.92	EPI														0.001	RAGSE
~Sodium trimetaphosphate	7785-84-4	305.89	EPI														0.001	RAGSE
~Sodium tripolyphosphate	7758-29-4	367.86	EPI														0.001	RAGSE
~Tetrapotassium phosphate	7320-34-5	330.34	EPI														0.001	RAGSE
~Tetrasodium pyrophosphate	7722-88-5	265.9	EPI														0.001	RAGSE
~Trialuminum sodium tetra decahydrogenoctaorthophosphate (dihydrate)	15136-87-5																0.001	RAGSE
~Tricalcium phosphate	7758-87-4	310.18	CRC89				3.14	CRC89									0.001	RAGSE
~Trimagnesium phosphate	7757-87-1	262.86	CRC89														0.001	RAGSE
~Tripotassium phosphate	7778-53-2	212.27	EPI														0.001	RAGSE
~Trisodium phosphate	7601-54-9	163.94	EPI														0.001	RAGSE
Phosphine	7803-51-2	34	EPI				1.39	CRC89							3.3	EPI	0.001	RAGSE
Phosphoric Acid	7664-38-2	98	EPI				1.834	PERRY							5480000	CRC89	0.001	RAGSE
Phosphorus, White	7723-14-0	30.9738	EPI				2.69	CRC89							3.3	EPI	0.001	RAGSE

Regional Screening Level (RSL) Chemical-specific Parameters Supporting Table April 2012

Contaminant		Molecular Weight		Henry's Law Constants			Density		Diffusivity in Air		Diffusivity in Water		Organic Carbon		Water Solubility		Permeability	
Analyte	CAS No.	MW	MW Ref	H <sup>+</sup> (unitless)	HLC (atm-m <sup>3</sup> /mole)	H <sup>+</sup> and HLC Ref	Density (g/cm <sup>3</sup> )	Density Ref	Dia (cm <sup>2</sup> /s)	Dia Ref	Diw (cm <sup>2</sup> /s)	Diw Ref	Koc (L/kg)	Koc Ref	S (mg/L)	S Ref	K <sub>p</sub> (cm/hr)	KPREF
Phthalic Acid, P-	100-21-0	166.13	EPI	1.586E-11	3.88E-13	EPI	1.51	PERRY	0.048723	WATER9	9.0446E-06	WATER9	79.24	EPI	15	EPI	0.00391	EPI
Phthalic Anhydride	85-44-9	148.12	EPI	6.6639E-07	1.63E-08	EPI	1.527	CRC89	0.05948	WATER9	9.7545E-06	WATER9	10	EPI	6200	EPI	0.00267	EPI
Picloram	1918-02-1	241.46	EPI	2.179E-12	5.33E-14	EPI			0.048999	WATER9	5.7252E-06	WATER9	38.77	EPI	430	EPI	0.00127	EPI
Picramic Acid (2-Amino-4,6-dinitrophenol)	96-91-3	199.12	EPI	7.604E-13	1.86E-14	EPI			0.05572	WATER9	6.5104E-06	WATER9	226.5	EPI	1400	EPI	0.000496	EPI
Pirimiphos, Methyl	29232-93-7	305.33	EPI	0.0000287	0.00000701	EPI	1.17	CRC89	0.021542	WATER9	5.3867E-06	WATER9	374.7	EPI	8.6	EPI	0.0187	EPI
Polybrominated Biphenyls	59536-65-1																	
Polychlorinated Biphenyls (PCBs)																		
~Aroclor 1016	12674-11-2	257.55	EPI	0.0081766	0.0002	EPI			0.046937	WATER9	5.4842E-06	WATER9	47700	EPI	0.42	EPI	0.305	EPI
~Aroclor 1221	11104-28-2	188.66	EPI	0.0300899	0.000736	EPI			0.057761	WATER9	6.7489E-06	WATER9	8397	EPI	15	EPI	0.14	EPI
~Aroclor 1232	11141-16-5	188.66	EPI	0.0300899	0.000736	EPI			0.057761	WATER9	6.7489E-06	WATER9	8397	EPI	1.45	EPI	0.14	EPI
~Aroclor 1242	53469-21-9	291.99	EPI	0.0077678	0.00019	EPI			0.043169	WATER9	5.044E-06	WATER9	78100	EPI	0.277	EPI	0.545	EPI
~Aroclor 1248	12672-29-6	291.99	EPI	0.0179886	0.00044	EPI			0.043169	WATER9	5.044E-06	WATER9	76530	EPI	0.1	EPI	0.584	EPI
~Aroclor 1254	11097-69-1	326.44	EPI	0.0115699	0.000283	EPI			0.040076	WATER9	4.6826E-06	WATER9	130500	EPI	0.043	EPI	0.751	EPI
~Aroclor 1260	11096-82-5	395.33	EPI	0.0137367	0.000336	EPI			0.035273	WATER9	4.1214E-06	WATER9	349700	EPI	0.0144	EPI	2.96	EPI
~Heptachlorobiphenyl, 2,3,3',4,4',5,5'-(PCB 189)	39635-31-9	395.33	EPI	0.0056419	0.000138	EPI			0.035273	WATER9	4.1214E-06	WATER9	349700	EPI	0.000753	EPI	2.96	EPI
~Hexachlorobiphenyl, 2,3',4,4',5,5'-(PCB 167)	52663-72-6	360.88	EPI	0.0066231	0.000162	EPI			0.037484	WATER9	4.3797E-06	WATER9	209300	EPI	0.00223	EPI	1.43	EPI
~Hexachlorobiphenyl, 2,3,3',4,4',5'-(PCB 157)	69782-90-7	360.88	EPI	0.0066231	0.000162	EPI			0.037484	WATER9	4.3797E-06	WATER9	213600	EPI	0.0016469	EPI	1.72	EPI
~Hexachlorobiphenyl, 2,3,3',4,4',5-(PCB 156)	38380-08-4	360.88	EPI	0.0058463	0.000143	EPI			0.037484	WATER9	4.3797E-06	WATER9	213600	EPI	0.00533	EPI	1.66	EPI
~Hexachlorobiphenyl, 3,3',4,4',5,5'-(PCB 169)	32774-16-6	360.88	EPI	0.0066231	0.000162	EPI			0.037484	WATER9	4.3797E-06	WATER9	209300	EPI	0.00051	EPI	1.24	EPI
~Pentachlorobiphenyl, 2',3,4,4',5'-(PCB 123)	65510-44-3	326.44	EPI	0.0077678	0.00019	EPI			0.040076	WATER9	4.6826E-06	WATER9	130500	EPI	0.016	EPI	1	EPI
~Pentachlorobiphenyl, 2,3',4,4',5-(PCB 118)	31508-00-6	326.44	EPI	0.0117743	0.000288	EPI			0.040076	WATER9	4.6826E-06	WATER9	127900	EPI	0.0134	EPI	1.24	EPI
~Pentachlorobiphenyl, 2,3,3',4,4'-(PCB 105)	32598-14-4	326.44	EPI	0.0115699	0.000283	EPI			0.040076	WATER9	4.6826E-06	WATER9	130500	EPI	0.0034	EPI	0.751	EPI
~Pentachlorobiphenyl, 2,3,4,4',5-(PCB 114)	74472-37-0	326.44	EPI	0.0077678	0.00019	EPI			0.040076	WATER9	4.6826E-06	WATER9	130500	EPI	0.016	EPI	1	EPI
~Pentachlorobiphenyl, 3,3',4,4',5-(PCB 126)	57465-28-8	326.44	EPI	0.0077678	0.00019	EPI			0.040076	WATER9	4.6826E-06	WATER9	127900	EPI	0.0073282	EPI	1	EPI
~Polychlorinated Biphenyls (high risk)	1336-36-3	291.99	EPI	0.0077678	0.00019	EPI			0.043169	WATER9	5.044E-06	WATER9	78100	EPI	0.7	EPI	0.545	EPI
~Polychlorinated Biphenyls (low risk)	1336-36-3	291.99	EPI	0.0077678	0.00019	EPI			0.043169	WATER9	5.044E-06	WATER9	78100	EPI	0.7	EPI	0.545	EPI
~Polychlorinated Biphenyls (lowest risk)	1336-36-3	291.99	EPI	0.0077678	0.00019	EPI			0.043169	WATER9	5.044E-06	WATER9	78100	EPI	0.7	EPI	0.545	EPI
~Tetrachlorobiphenyl, 3,3',4,4'-(PCB 77)	32598-13-3	291.99	EPI	0.0003843	0.0000094	EPI			0.043169	WATER9	5.044E-06	WATER9	78100	EPI	0.000569	EPI	0.917	EPI
~Tetrachlorobiphenyl, 3,4,4',5-(PCB 81)	70362-50-4	291.99	EPI	0.0091169	0.000223	EPI			0.043169	WATER9	5.044E-06	WATER9	78100	EPI	0.032245	EPI	0.584	EPI
Polymeric Methylene Diphenyl Diisocyanate (PMDI)	9016-87-9	512.53	EPI	5.397E-10	1.32E-11	EPI			0.029667	WATER9	3.4664E-06	WATER9	1000000000	EPI	1.763E-06	EPI	18.6	EPI
Polynuclear Aromatic Hydrocarbons (PAHs)																		
~Acenaphthene	83-32-9	154.21	EPI	0.0075225	0.000184	EPI	1.222	CRC89	0.050614	WATER9	0.0000833	WATER9	5027	EPI	3.9	EPI	0.086	EPI
~Anthracene	120-12-7	178.24	EPI	0.0022731	0.0000556	EPI	1.28	CRC89	0.038973	WATER9	7.8523E-06	WATER9	16360	EPI	0.0434	EPI	0.142	EPI
~Benz[a]anthracene	56-55-3	228.3	EPI	0.0004906	0.000012	EPI			0.050865	WATER9	5.9431E-06	WATER9	176900	EPI	0.0094	EPI	0.552	EPI
~Benzo[j]fluoranthene	205-82-3	252.32	EPI	8.2993E-06	0.00000203	EPI			0.047583	WATER9	5.5597E-06	WATER9	599400	EPI	0.0025	EPI	0.69	EPI
~Benzo[a]pyrene	50-32-8	252.32	EPI	0.0000187	0.00000457	EPI			0.047583	WATER9	5.5597E-06	WATER9	587400	EPI	0.00162	EPI	0.713	EPI
~Benzo[b]fluoranthene	205-99-2	252.32	EPI	0.0000269	0.00000657	EPI			0.047583	WATER9	5.5597E-06	WATER9	599400	EPI	0.0015	EPI	0.417	EPI
~Benzo[k]fluoranthene	207-08-9	252.32	EPI	0.0000239	0.00000584	EPI			0.047583	WATER9	5.5597E-06	WATER9	587400	EPI	0.0008	EPI	0.691	EPI
~Chrysene	218-01-9	228.3	EPI	0.0002138	0.00000523	EPI	1.274	CRC89	0.026114	WATER9	6.7495E-06	WATER9	180500	EPI	0.002	EPI	0.596	EPI
~Dibenz[a,h]anthracene	53-70-3	278.36	EPI	5.7645E-06	0.00000141	EPI			0.044567	WATER9	5.2073E-06	WATER9	1912000	EPI	0.00249	EPI	0.953	EPI
~Dibenzo[a,e]pyrene	192-65-4	302.38	EPI	5.7645E-07	1.41E-08	EPI			0.042175	WATER9	4.9278E-06	WATER9	6479000	EPI	0.000425	EPI	4.19	EPI
~Dimethylbenz[a]anthracene, 7,12-	57-97-6	256.35	EPI	0.0001537	0.00000376	EPI			0.047083	WATER9	5.5013E-06	WATER9	493600	EPI	0.061	EPI	0.408	EPI
~Fluoranthene	206-44-0	202.26	EPI	0.0003622	0.00000886	EPI	1.252	CRC89	0.027596	WATER9	7.1827E-06	WATER9	55450	EPI	0.26	EPI	0.308	EPI
~Fluorene	86-73-7	166.22	EPI	0.003933	0.0000962	EPI	1.203	CRC89	0.043974	WATER9	7.889E-06	WATER9	9160	EPI	1.69	EPI	0.11	EPI
~Indeno[1,2,3-cd]pyrene	193-39-5	276.34	EPI	0.0000142	0.00000348	EPI			0.044784	WATER9	5.2327E-06	WATER9	1951000	EPI	0.00019	EPI	1.24	EPI
~Methylnaphthalene, 1-	90-12-0	142.2	EPI	0.0210139	0.000514	EPI	1.0202	CRC89	0.052771	WATER9	7.8477E-06	WATER9	2528	EPI	25.8	EPI	0.0931	EPI
~Methylnaphthalene, 2-	91-57-6	142.2	EPI	0.0211774	0.000518	EPI	1.0058	CRC89	0.052432	WATER9	7.7811E-06	WATER9	2478	EPI	24.6	EPI	0.0917	EPI
~Naphthalene	91-20-3	128.18	EPI	0.0179886	0.00044	EPI	1.0253	CRC89	0.060499	WATER9	8.377E-06	WATER9	1544	EPI	31	EPI	0.0466	EPI
~Nitropyrene, 4-	57835-92-4	247.26	EPI	1.0016E-06	2.45E-08	EPI			0.04823	WATER9	5.6353E-06	WATER9	86110	EPI	0.044505	EPI	0.0922	EPI
~Pyrene	129-00-0	202.26	EPI	0.0004865	0.0000119	EPI	1.271	CRC89	0.027787	WATER9	7.2479E-06	WATER9	54340	EPI	0.135	EPI	0.201	EPI
Prochloraz	67747-09-5	376.67	EPI	6.7048E-07	1.64E-08	EPI			0.036429	WATER9	4.2564E-06	WATER9	2425	EPI	34	EPI	0.0064	EPI
Profuralin	26399-36-0	347.3	EPI	0.0118561	0.00029	EPI			0.038455	WATER9	4.4931E-06	WATER9	30520	EPI	0.1	EPI	0.09	EPI
Prometon	1610-18-0	225.3	EPI	3.7163E-08	9.09E-10	EPI			0.051315	WATER9	5.9958E-06	WATER9	137.4	EPI	750	EPI	0.00827	EPI
Prometryn	7287-19-6	241.36	EPI	4.8651E-07	1.19E-08	EPI	1.157	CRC89	0.024246	WATER9	6.1613E-06	WATER9	656.4	EPI	33	EPI	0.0149	EPI
Propachlor	1918-16-7	211.69	EPI	0.0000147	0.00000036	EPI	1.242	CRC89	0.026846	WATER9	6.9554E-06	WATER9	204.5	EPI	580	EPI	0.00286	EPI
Propanil	709-98-8	218.08	EPI	6.991E-08	1.71E-09	EPI	1.25	CRC89	0.026511	WATER9	6.8588E-06	WATER9	175.9	EPI	152	EPI	0.0103	EPI
Propargite	2312-35-8	350.48	EPI	0.0000262	0.00000064	EPI	1.1	CRC89	0.01944	WATER9	4.7787E-06	WATER9	36650	EPI	0.215	EPI	0.0356	EPI
Propargyl Alcohol	107-19-7	56.06	EPI	0.000047	0.00000115	EPI	0.9478	CRC89	0.117395	WATER9	0.0000131	WATER9	1.904	EPI	1000000	EPI	0.000424	EPI
Propazine																		



Regional Screening Level (RSL) Chemical-specific Parameters Supporting Table April 2012

Contaminant		Molecular Weight		Henry's Law Constants			Density		Diffusivity in Air		Diffusivity in Water		Organic Carbon		Water Solubility		Permeability	
Analyte	CAS No.	MW	MW Ref	H <sup>+</sup> (unitless)	HLC (atm-m <sup>3</sup> /mole)	H <sup>+</sup> and HLC Ref	Density (g/cm <sup>3</sup> )	Density Ref	Dia (cm <sup>2</sup> /s)	Dia Ref	Diw (cm <sup>2</sup> /s)	Diw Ref	Koc (L/kg)	Koc Ref	S (mg/L)	S Ref	K <sub>p</sub> (cm/hr)	KPREF
Toluene-2,5-diamine	95-70-5	122.17	EPI	3.8921E-08	9.52E-10	EPI			0.077169	WATER9	9.0166E-06	WATER9	55.39	EPI	13847	EPI	0.00041	EPI
Toluidine, p-	106-49-0	107.16	EPI	0.0000826	0.00000202	EPI	0.9619	CRC89	0.071219	WATER9	8.977E-06	WATER9	112.7	EPI	6500	EPI	0.00329	EPI
Toxaphene	8001-35-2	413.82	EPI	0.0002453	0.000006	EPI			0.034215	WATER9	3.9977E-06	WATER9	77200	EPI	0.74	SSL	0.0518	EPI
Tralometrin	66841-25-6	665.02	EPI	1.6108E-08	3.94E-10	EPI			0.024938	WATER9	2.9138E-06	WATER9	191100	EPI	0.08	EPI	0.0305	EPI
Tri-n-butyltin	688-73-3	291.07	EPI	62.142273	1.52	EPI	1.103	CRC89	0.021473	WATER9	5.3508E-06	WATER9	8091	EPI	0.82457	EPI	2.8	EPI
Triallate	2303-17-5	304.66	EPI	0.0004906	0.000012	EPI	1.273	CRC89	0.022458	WATER9	5.6739E-06	WATER9	1008	EPI	4	EPI	0.0349	EPI
Triasulfuron	82097-50-5	401.83	EPI	1.321E-11	3.23E-13	EPI			0.034892	WATER9	4.0769E-06	WATER9	427.2	EPI	32	EPI	0.000367	EPI
Tribromobenzene, 1,2,4-	615-54-3	314.8	EPI	0.0158626	0.000388	EPI			0.041058	WATER9	4.7973E-06	WATER9	614.3	EPI	4.9	EPI	0.0337	EPI
Tributyl Phosphate	126-73-8	266.32	EPI	0.0000576	0.00000141	EPI	0.9727	CRC89	0.021184	WATER9	5.2338E-06	WATER9	2350	EPI	280	EPI	0.0228	EPI
Tributyltin Compounds	NA																	
Tributyltin Oxide	56-35-9	596.12	EPI	0.0000123	0.000000302	EPI	1.17	CRC89	0.015124	WATER9	3.6056E-06	WATER9	25930000	EPI	19.5	EPI	0.000252	EPI
Trichloro-1,2,2-trifluoroethane, 1,1,2-	76-13-1	187.38	EPI	21.504497	0.526	EPI	1.5635	CRC89	0.037566	WATER9	8.592E-06	WATER9	196.8	EPI	170	EPI	0.0175	EPI
Trichloroacetic Acid	76-03-9	163.39	EPI	5.5192E-07	1.35E-08	EPI	1.6126	CRC89	0.051749	WATER9	9.5028E-06	WATER9	3.231	EPI	54600	EPI	0.00145	EPI
Trichloroaniline HCl, 2,4,6-	33663-50-2	232.93	EPI	2.935E-12	7.18E-14	EPI			0.050188	WATER9	5.8641E-06	WATER9	1271	EPI	20.964	EPI	0.0000276	EPI
Trichloroaniline, 2,4,6-	634-93-5	196.46	EPI	0.0000548	0.00000134	EPI			0.056222	WATER9	6.5691E-06	WATER9	4440	EPI	40	EPI	0.027	EPI
Trichlorobenzene, 1,2,3-	87-61-6	181.45	EPI	0.0511038	0.00125	EPI	1.4533	CRC89	0.03953	WATER9	8.3836E-06	WATER9	1383	EPI	18	EPI	0.0738	EPI
Trichlorobenzene, 1,2,4-	120-82-1	181.45	EPI	0.058054	0.00142	EPI	1.459	CRC89	0.039599	WATER9	8.4033E-06	WATER9	1356	EPI	49	EPI	0.0705	EPI
Trichloroethane, 1,1,1-	71-55-6	133.41	EPI	0.7031889	0.0172	EPI	1.339	CRC89	0.064817	WATER9	9.599E-06	WATER9	43.89	EPI	1290	EPI	0.0126	EPI
Trichloroethane, 1,1,2-	79-00-5	133.41	EPI	0.0336877	0.000824	EPI	1.4397	CRC89	0.06689	WATER9	0.00001	WATER9	60.7	EPI	4590	EPI	0.00504	EPI
Trichloroethylene	79-01-6	131.39	EPI	0.4026983	0.00985	EPI	1.4642	CRC89	0.068662	WATER9	0.0000102	WATER9	60.7	EPI	1280	EPI	0.0116	EPI
Trichlorofluoromethane	75-69-4	137.37	EPI	3.9656582	0.097	EPI	1.4879	CRC89	0.065356	WATER9	0.00001	WATER9	43.89	EPI	1100	EPI	0.0127	EPI
Trichlorophenol, 2,4,5-	95-95-4	197.45	EPI	0.0000662	0.00000162	EPI	1.49	PERRY	0.031394	WATER9	8.0893E-06	WATER9	1777	EPI	1200	EPI	0.0362	EPI
Trichlorophenol, 2,4,6-	88-06-2	197.45	EPI	0.0001063	0.0000026	EPI	1.4901	CRC89	0.031395	WATER9	8.0896E-06	WATER9	1777	EPI	800	EPI	0.0346	EPI
Trichlorophenoxyacetic Acid, 2,4,5-	93-76-5	255.49	EPI	1.9052E-06	4.66E-08	EPI			0.047189	WATER9	5.5136E-06	WATER9	107	EPI	278	EPI	0.00914	EPI
Trichlorophenoxypropionic acid, -2,4,5	93-72-1	269.51	EPI	3.704E-07	9.06E-09	EPI			0.045538	WATER9	5.3207E-06	WATER9	175.3	EPI	71	EPI	0.0161	EPI
Trichloropropane, 1,1,2-	598-77-6	147.43	EPI	0.0129599	0.000317	EPI	1.372	CRC89	0.057158	WATER9	9.1735E-06	WATER9	94.94	EPI	1900	EPI	0.0096	EPI
Trichloropropane, 1,2,3-	96-18-4	147.43	EPI	0.0140229	0.000343	EPI	1.3889	CRC89	0.057466	WATER9	9.2411E-06	WATER9	115.8	EPI	1750	EPI	0.00752	EPI
Trichloropropene, 1,2,3-	96-19-5	145.42	EPI	0.7195421	0.0176	EPI	1.412	CRC89	0.059063	WATER9	9.4102E-06	WATER9	115.8	EPI	484.19	EPI	0.0169	EPI
Tridiphane	58138-08-2	320.43	EPI	0.0000168	0.00000041	EPI			0.040576	WATER9	4.7409E-06	WATER9	3447	EPI	1.1696	EPI	0.0689	EPI
Triethylamine	121-44-8	101.19	EPI	0.0060916	0.000149	EPI	0.7275	CRC89	0.066363	WATER9	7.8576E-06	WATER9	50.81	EPI	68600	EPI	0.0039	EPI
Trifluralin	1582-09-8	335.29	EPI	0.004211	0.000103	EPI			0.039368	WATER9	4.5998E-06	WATER9	16390	EPI	0.184	EPI	0.0728	EPI
Trimethyl Phosphate	512-56-1	140.08	EPI	2.9436E-07	7.2E-09	EPI	1.2144	CRC89	0.058255	WATER9	8.7915E-06	WATER9	10.6	EPI	500000	EPI	0.0000948	EPI
Trimethylbenzene, 1,2,3-	526-73-8	120.2	EPI	0.178	0.00436	EPI	0.8944	CRC89	0.061254	WATER9	8.0214E-06	WATER9	626.9	EPI	75.2	EPI	0.0897	EPI
Trimethylbenzene, 1,2,4-	95-63-6	120.2	EPI	0.2518397	0.00616	EPI	0.8758	CRC89	0.060675	WATER9	7.9209E-06	WATER9	614.3	EPI	57	EPI	0.0857	EPI
Trimethylbenzene, 1,3,5-	108-67-8	120.2	EPI	0.3585446	0.00877	EPI	0.8615	CRC89	0.060225	WATER9	7.843E-06	WATER9	602.1	EPI	48.2	EPI	0.0621	EPI
Trinitrobenzene, 1,3,5-	99-35-4	213.11	EPI	2.6574E-07	6.5E-09	EPI	1.4775	CRC89	0.028969	WATER9	7.6882E-06	WATER9	1683	EPI	278	EPI	0.000607	EPI
Trinitrotoluene, 2,4,6-	118-96-7	227.13	EPI	8.5037E-07	2.08E-08	EPI	1.654	CRC89	0.029509	WATER9	7.9182E-06	WATER9	2812	EPI	115	EPI	0.000963	EPI
Triphenylphosphine Oxide	791-28-6	278.29	EPI	2.1504E-08	5.26E-10	EPI	1.2124	CRC89	0.023005	WATER9	5.8178E-06	WATER9	1954	EPI	204.51	EPI	0.00327	EPI
Tris(2-chloroethyl)phosphate	115-96-8	285.49	EPI	0.0001345	0.00000329	EPI	1.39	CRC89	0.024218	WATER9	6.2191E-06	WATER9	388.3	EPI	7000	EPI	0.000355	EPI
Tris(2-ethylhexyl)phosphate	78-42-2	434.65	EPI	3.2134E-06	7.86E-08	EPI	0.99	CRC89	0.016451	WATER9	3.9425E-06	WATER9	2468000	EPI	0.6	EPI	11.6	EPI
Uranium (Soluble Salts)	NA	238.03	CRC89				19.1	CRC89									0.001	RAGSE
Urethane	51-79-6	89.09	EPI	2.6288E-06	6.43E-08	EPI	0.9862	CRC89	0.08485	WATER9	0.0000102	WATER9	12.13	EPI	480000	EPI	0.000394	EPI
Vanadium Pentoxide	1314-62-1	181.88	EPI				3.35	CRC89							700	CRC89	0.001	RAGSE
Vanadium and Compounds	NA	50.94	CRC89				6	CRC89							0	CRC89	0.001	RAGSE
Vernolate	1929-77-7	203.35	EPI	0.0012633	0.0000309	EPI	0.952	CRC89	0.024219	WATER9	6.0745E-06	WATER9	299.1	EPI	90	EPI	0.0403	EPI
Vinclozolin	50471-44-8	286.12	EPI	7.1137E-07	1.74E-08	EPI	1.51	CRC89	0.025149	WATER9	6.5272E-06	WATER9	283.6	EPI	2.6	EPI	0.00446	EPI
Vinyl Acetate	108-05-4	86.09	EPI	0.0208913	0.000511	EPI	0.9256	CRC89	0.084902	WATER9	0.00001	WATER9	5.583	EPI	20000	EPI	0.00157	EPI
Vinyl Bromide	593-60-2	106.95	EPI	0.5028618	0.0123	EPI	1.4933	CRC89	0.086224	WATER9	0.0000117	WATER9	21.73	EPI	0	LANGE	0.00435	EPI
Vinyl Chloride	75-01-4	62.5	EPI	1.1365495	0.0278	EPI	0.9106	CRC89	0.107119	WATER9	0.000012	WATER9	21.73	EPI	8800	EPI	0.00838	EPI
Warfarin	81-81-2	308.34	EPI	1.1325E-07	2.77E-09	EPI			0.041629	WATER9	4.8641E-06	WATER9	426.1	EPI	17	EPI	0.00182	EPI
Xylene, p-	106-42-3	106.17	EPI	0.2820932	0.0069	EPI	0.8565	CRC89	0.068249	WATER9	8.4199E-06	WATER9	375.3	EPI	162	EPI	0.0493	EPI
Xylene, m-	108-38-3	106.17	EPI	0.2935405	0.00718	EPI	0.8598	CRC89	0.068366	WATER9	8.4394E-06	WATER9	375.3	EPI	161	EPI	0.0532	EPI
Xylene, o-	95-47-6	106.17	EPI	0.2117743	0.00518	EPI	0.8755	CRC89	0.06892	WATER9	8.5315E-06	WATER9	382.9	EPI	178	EPI	0.0471	EPI
Xylenes	1330-20-7	106.17	EPI	0.2117743	0.00518	EPI			0.08474	WATER9	9.9011E-06	WATER9	382.9	EPI	106	EPI	0.0471	EPI
Zinc Phosphide	1314-84-7	258.175	CRC89				4.55	CRC89									0.0006	RAGSE
Zinc and Compounds	7440-66-6	65.38	EPI				7.134	CRC89									0.0006	RAGSE
Zineb	12122-67-7	275.74	EPI	6.5004E-09	1.59E-10	EPI			0.044849	WATER9	5.2403E-06	WATER9	1345	EPI	10	EPI	0.0000244	EPI