

Table A-6: IDEM OLQ 2016 Screening Levels

Chemical		Soil Exposure			Ground Water		Vapor Exposure			
		Direct Contact			Soil MTG	Tap	Ground Water		Indoor Air	
		Residential (mg/kg)	Com/Ind (mg/kg)	Excavation (mg/kg)	Residential (mg/kg)	Residential (ug/L)	Residential (ug/L)	Com/Ind (ug/L)	Residential (ug/m3)	Com/Ind (ug/m3)
Name	CASRN									
Acenaphthene	83-32-9	5000 N	45000 N	100000 L	110 N	530 N				
Acephate	30560-19-1	350 N	2600 C	7000 N	0.35 N	80 N				
Acetaldehyde	75-07-0	110 N	340 N	1900 N	0.077 N	19 N			9.4 N	39 N
Acetochlor	34256-82-1	1800 N	16000 N	34000 N	5.6 N	350 N				
Acetone	67-64-1	85000 N	100000 L	100000 L	57 N	14000 N			32000 N	140000 N
Acetone Cyanohydrin	75-86-5	100000 L	100000 L	100000 L					2.1 N	8.8 N
Acetonitrile	75-05-8	1100 N	3400 N	19000 N	0.54 N	130 N			63 N	260 N
Acetophenone	98-86-2	2500 S	2500 S	2500 S	12 N	1900 N				
Acetylaminofluorene, 2-	53-96-3	2 C	6 C	320 C	0.015 C	0.16 C			0.022 C	0.094 C
Acrolein	107-02-8	0.2 N	0.6 N	3.4 N	0.00017 N	0.042 N			0.021 N	0.088 N
Acrylamide	79-06-1	3.4 C	46 C	2400 C	0.0021 C	0.5 C			0.1 C	1.2 C
Acrylic Acid	79-10-7	140 N	420 N	2300 N	0.0085 N	2.1 N			1 N	4.4 N
Acrylonitrile	107-13-1	3.5 C	11 C	370 N	0.0023 C	0.52 C			0.41 C	1.8 C
Adiponitrile	111-69-3	100000 L	100000 L	100000 L					6.3 N	26 N
Alachlor	15972-60-8	140 C	410 C	18000 N	0.033 M	2 M				
Aldicarb	116-06-3	88 N	820 N	1800 N	0.015 M	3 M				
Aldicarb Sulfone	1646-88-4	88 N	820 N	1800 N	0.0088 M	2 M				
Aldicarb sulfoxide	1646-87-3				0.018 M	4 M				
Aldrin	309-00-2	0.55 C	1.8 C	59 N	0.03 C	0.0092 C			0.0057 C	0.025 C
Allyl Alcohol	107-18-6	4.9 N	15 N	83 N	0.00086 N	0.21 N			0.1 N	0.44 N
Allyl Chloride	107-05-1	2.4 N	6.9 N	38 N	0.013 N	2.1 N			1 N	4.4 N
Aluminum	7429-90-5	100000 L	100000 L	100000 L	600000 N	20000 N			5.2 N	22 N
Aluminum metaphosphate	13776-88-0	100000 L	100000 L	100000 L		970000 N				
Aluminum Phosphide	20859-73-8	43 N	470 N	790 N		8 N				
Ametryn	834-12-8	800 N	7400 N	16000 N	3.2 N	150 N				
Aminobiphenyl, 4-	92-67-1	0.36 C	1.1 C	60 C	0.0031 C	0.03 C			0.0047 C	0.02 C
Aminophenol, m-	591-27-5	7100 N	66000 N	100000 L	12 N	1600 N				
Aminophenol, p-	123-30-8	1800 N	16000 N	34000 N	3 N	400 N				
Amitraz	33089-61-1	220 N	2100 N	4300 N	84 N	8.2 N				

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		Residential	Com/Ind	Excavation	Residential	Residential	Residential	Com/Ind	Residential	Com/Ind	
Name	CASRN	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/m3)	(ug/m3)
Ammonia	7664-41-7									100 N	440 N
Ammonium Perchlorate	7790-98-9	77 N	820 N	1400 N		14 N					
Ammonium polyphosphate	68333-79-9	100000 L	100000 L	100000 L		970000 N					
Ammonium Sulfamate	7773-06-0	22000 N	100000 L	100000 L		4000 N					
Amyl Alcohol, tert-	75-85-4	110 N	340 N	1900 N	0.026 N	6.3 N				3.1 N	13 N
Aniline	62-53-3	620 N	4000 C	12000 N	0.89 C	130 C				1 N	4.4 N
Anthracene	120-12-7	25000 N	100000 L	100000 L	1200 N	1800 N					
Anthraquinone, 9,10-	84-65-1	180 N	570 C	3400 N	2.9 C	14 C					
Antimony (metallic)	7440-36-0	43 N	470 N	790 N	5.4 M	6 M					
Antimony Pentoxide	1314-60-9	55 N	580 N	980 N		9.7 N					
Antimony Tetroxide	1332-81-6	43 N	470 N	790 N		7.8 N					
Antimony Trioxide	1309-64-4	100000 L	100000 L	100000 L						0.21 N	0.88 N
Arsenic, Inorganic	7440-38-2	9.5 C	30 C	920 N	5.9 M	10 M				0.0065 C	0.029 C
Arsine	7784-42-1	0.38 N	4.1 N	6.9 N		0.07 N				0.052 N	0.22 N
Asulam	3337-71-1	4500 N	41000 N	87000 N	5.1 N	1000 N					
Atrazine	1912-24-9	34 C	100 C	5200 C	0.039 C	3 C					
Auramine	492-80-8	8.7 C	26 C	1400 C	0.12 C	0.67 C				0.11 C	0.49 C
Avermectin B1	65195-55-3	35 N	330 N	700 N	280 N	8 N					
Azinphos-methyl	86-50-0	270 N	2500 N	5200 N	0.34 N	56 N				10 N	44 N
Azobenzene	103-33-3	78 C	260 C	12000 C	0.19 C	1.2 C				0.91 C	4 C
Azodicarbonamide	123-77-3	12000 N	40000 N	100000 L	140 N	20000 N				0.0073 N	0.031 N
Barium	7440-39-3	21000 N	100000 L	100000 L	1700 M	2000 M				0.52 N	2.2 N
Barium Chromate	10294-40-3	4.2 C	62 C	2700 C		0.41 C				0.000068 C	0.00082 C
Benfluralin	1861-40-1	32000 N	100000 L	100000 L	1100 N	1700 N					
Benomyl	17804-35-2	4500 N	41000 N	87000 N	17 N	970 N					
Bensulfuron-methyl	83055-99-6	18000 N	100000 L	100000 L	20 N	3900 N					
Bentazon	25057-89-0	2700 N	25000 N	52000 N	2.5 N	570 N					
Benz[a]anthracene	56-55-3	2.2 C	29 C	1600 C	0.85 C	0.12 C				0.092 C	1.1 C
Benzaldehyde	100-52-7	1200 S	1200 S	1200 S	8.4 N	1900 N					
Benzene	71-43-2	17 C	51 C	1800 S	0.051 M	5 M	28 C	120 C		3.6 C	16 C
Benzenediamine-2-methyl sulfate, 1,4-	6369-59-1	27 N	230 C	520 N	0.033 N	6 N					

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		Direct Contact			Soil MTG	Tap	Ground Water		Indoor Air		
		Residential	Com/Ind	Excavation	Residential	Residential	Residential	Com/Ind	Residential	Com/Ind	
Name	CASRN	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/m3)	(ug/m3)
Benzenethiol	108-98-5	110 N	1200 N	1300 S	0.23 N	17 N					
Benzidine	92-87-5	0.0074 C	0.1 C	5.2 C	0.000057 C	0.0011 C				0.00015 C	0.0018 C
Benzo(j)fluoranthene	205-82-3	5.9 C	18 C	980 C	16 C	0.65 C				0.26 C	1.1 C
Benzo[a]pyrene	50-32-8	0.22 C	2.9 C	160 C	4.7 M	0.2 M				0.0092 C	0.11 C
Benzo[b]fluoranthene	205-99-2	2.2 C	29 C	1600 C	8.2 C	0.34 C				0.092 C	1.1 C
Benzo[k]fluoranthene	207-08-9	22 C	290 C	16000 C	80 C	3.4 C				0.092 C	1.1 C
Benzoic Acid	65-85-0	100000 L	100000 L	100000 L	350 N	75000 N					
Benzotrichloride	98-07-7	0.74 C	2.5 C	110 C	0.0013 C	0.03 C					
Benzyl Alcohol	100-51-6	8800 N	82000 N	100000 L	9.7 N	2000 N					
Benzyl Chloride	100-44-7	15 C	48 C	530 N	0.019 C	0.89 C				0.57 C	2.5 C
Beryllium and compounds	7440-41-7	220 N	2300 N	3800 N	63 M	4 M				0.012 C	0.051 C
Bifenox	42576-02-3	800 N	7400 N	16000 N	15 N	100 N					
Biphenrin	82657-04-3	1300 N	12000 N	27000 N	27000 N	300 N					
Biphenyl, 1,1'-	92-52-4	66 N	200 N	1100 N	0.17 N	0.83 N				0.42 N	1.8 N
Bis(2-chloro-1-methylethyl) ether	108-60-1	1000 S	1000 S	1000 S	5.2 N	710 N					
Bis(2-chloroethoxy)methane	111-91-1	270 N	2500 N	5200 N	0.27 N	59 N					
Bis(2-chloroethyl)ether	111-44-4	3.2 C	10 C	810 C	0.00074 C	0.14 C				0.085 C	0.37 C
Bis(2-ethylhexyl)phthalate	117-81-7	550 C	1600 C	34000 N	29 M	6 M				12 C	51 C
Bis(chloromethyl)ether	542-88-1	0.0012 C	0.0036 C	0.48 C	0.0000034 C	0.00072 C				0.00045 C	0.002 C
Bisphenol A	80-05-7	4500 N	41000 N	87000 N	1200 N	770 N					
Boron And Borates Only	7440-42-8	22000 N	100000 L	100000 L	260 N	4000 N				21 N	88 N
Boron Trichloride	10294-34-5	100000 L	100000 L	100000 L		42 N				21 N	88 N
Boron Trifluoride	7637-07-2	4300 N	47000 N	79000 N		26 N				14 N	57 N
Bromate	15541-45-4	14 C	47 C	2000 C	1.6 M	10 M					
Bromo-2-chloroethane, 1-	107-04-0	0.36 C	1.1 C	130 C	0.00042 C	0.074 C				0.047 C	0.2 C
Bromobenzene	108-86-1	410 N	680 S	680 S	0.84 N	62 N				63 N	260 N
Bromochloromethane	74-97-5	210 N	630 N	3500 N	0.41 N	83 N				42 N	180 N
Bromodichloromethane	75-27-4	4.1 C	13 C	930 S	0.43 M	80 M				0.76 C	3.3 C
Bromoform	75-25-2	270 C	860 C	920 S	0.42 M	80 M				26 C	110 C
Bromomethane	74-83-9	9.5 N	30 N	160 N	0.038 N	7.5 N				5.2 N	22 N
Bromophos	2104-96-3	550 N	5800 N	9800 N	3 N	35 N					

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		Direct Contact			Soil MTG	Tap	Ground Water		Indoor Air		
		Residential	Com/Ind	Excavation	Residential	Residential	Residential	Com/Ind	Residential	Com/Ind	
Name	CASRN	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/m3)	(ug/m3)
Bromoxynil	1689-84-5	1800 N	16000 N	34000 N	5.7 N	330 N					
Bromoxynil Octanoate	1689-99-2	2200 N	23000 N	39000 N	24 N	140 N					
Butadiene, 1,3-	106-99-0	0.81 C	2.6 C	42 N	0.0019 C	0.18 C			0.94 C	4.1 C	
Butanol, N-	71-36-3	7600 S	7600 S	7600 S	8.3 N	2000 N					
Butyl alcohol, sec-	78-92-2	21000 S	21000 S	21000 S	99 N	24000 N			31000 N	130000 N	
Butyl Benzyl Phthalate	85-68-7	4100 C	12000 C	100000 L	46 C	160 C					
Butylate	2008-41-5	5500 N	58000 N	98000 N	8.9 N	460 N					
Butylated hydroxyanisole	25013-16-5	38000 C	100000 L	100000 L	56 C	1500 C			490 C	2200 C	
Butylated hydroxytoluene	128-37-0	2100 C	6400 C	100000 L	20 C	34 C					
Butylbenzene, n-	104-51-8	110 S	110 S	110 S	64 N	1000 N					
Butylbenzene, sec-	135-98-8	150 S	150 S	150 S	120 N	2000 N					
Butylbenzene, tert-	98-06-6	180 S	180 S	180 S	31 N	690 N					
Butylphthalyl Butylglycolate	85-70-1	88000 N	100000 L	100000 L	5900 N	13000 N					
Cacodylic Acid	75-60-5	1800 N	16000 N	34000 N	2.3 N	400 N					
Cadmium (Diet)	7440-43-9	99 N	980 N	1900 N							
Cadmium (Water)	7440-43-9				7.5 M	5 M			0.01 N	0.044 N	
Calcium Chromate	13765-19-0	4.2 C	62 C	2700 C		0.41 C			0.000068 C	0.00082 C	
Calcium Cyanide	592-01-8	110 N	1200 N	2000 N		20 N					
Calcium pyrophosphate	7790-76-3	100000 L	100000 L	100000 L		970000 N					
Caprolactam	105-60-2	43000 N	100000 L	100000 L	49 N	9900 N			2.3 N	9.6 N	
Captafol	2425-06-1	50 C	150 C	3400 N	0.14 C	4 C			0.65 C	2.9 C	
Captan	133-06-2	3400 C	10000 C	100000 L	4.4 C	310 C			43 C	190 C	
Carbaryl	63-25-2	8800 N	82000 N	100000 L	33 N	1800 N					
Carbofuran	1563-66-2	450 N	4100 N	8700 N	0.31 M	40 M					
Carbon Disulfide	75-15-0	740 S	740 S	740 S	4.8 N	810 N			730 N	3100 N	
Carbon Tetrachloride	56-23-5	9.1 C	29 C	460 S	0.039 M	5 M	6.5 C	28 C	4.7 C	20 C	
Carbonyl Sulfide	463-58-1	94 N	280 N	1600 N	9.9 N	210 N			100 N	440 N	
Carbosulfan	55285-14-8	880 N	8200 N	18000 N	25 N	51 N					
Carboxin	5234-68-4	8800 N	82000 N	100000 L	20 N	1900 N					
Ceric oxide	1306-38-3	100000 L	100000 L	100000 L					0.94 N	3.9 N	
Chloral Hydrate	302-17-0	11000 N	100000 L	100000 L	8.1 N	2000 N					

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		Direct Contact			Soil MTG	Tap	Ground Water		Indoor Air		
		Residential	Com/Ind	Excavation	Residential	Residential	Residential	Com/Ind	Residential	Com/Ind	
Name	CASRN	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/m3)	(ug/m3)
Chloramben	133-90-4	1300 N	12000 N	27000 N	1.4 N	290 N					
Chloranil	118-75-2	18 C	57 C	3000 C	0.029 C	1.8 C					
Chlordane	12789-03-6	24 C	75 C	880 N	2.7 M	2 M			0.28 C	1.2 C	
Chlordecone (Kepone)	143-50-0	0.76 C	2.3 C	120 C	0.025 C	0.035 C			0.0061 C	0.027 C	
Chlorfenvinphos	470-90-6	62 N	570 N	1200 N	0.6 N	11 N					
Chlorimuron, Ethyl-	90982-32-4	1800 N	16000 N	34000 N	2.7 N	390 N					
Chlorine	7782-50-5	0.25 N	0.78 N	4.3 N	0.0029 N	0.3 N			0.15 N	0.64 N	
Chlorine Dioxide	10049-04-4	3200 N	34000 N	58000 N		0.42 N			0.21 N	0.88 N	
Chlorite (Sodium Salt)	7758-19-2	3200 N	35000 N	59000 N		1000 M					
Chloro-1,1-difluoroethane, 1-	75-68-3	1200 S	1200 S	1200 S	990 N	100000 N			52000 N	220000 N	
Chloro-1,3-butadiene, 2-	126-99-8	0.14 C	0.44 C	61 C	0.002 C	0.19 C			0.094 C	0.41 C	
Chloro-2-methylaniline HCl, 4-	3165-93-3	17 C	50 C	2700 C	0.031 C	1.7 C					
Chloro-2-methylaniline, 4-	95-69-2	76 C	230 C	5200 N	0.08 C	7 C			0.36 C	1.6 C	
Chloroacetaldehyde, 2-	107-20-0	36 C	120 C	5100 C	0.012 C	2.9 C					
Chloroacetic Acid	79-11-8				0.24 M	60 M					
Chloroacetophenone, 2-	532-27-4	60000 N	100000 L	100000 L					0.031 N	0.13 N	
Chloroaniline, p-	106-47-8	38 C	110 C	6000 C	0.031 C	3.7 C					
Chlorobenzene	108-90-7	390 N	760 S	760 S	1.4 M	100 M			52 N	220 N	
Chlorobenzilate	510-15-6	69 C	210 C	11000 C	0.2 C	3.1 C			0.91 C	4 C	
Chlorobenzoic Acid, p-	74-11-3	2700 N	25000 N	52000 N	2.6 N	510 N					
Chlorobenzotrifluoride, 4-	98-56-6	290 S	290 S	290 S	2.5 N	35 N			310 N	1300 N	
Chlorobutane, 1-	109-69-3	730 S	730 S	730 S	5.2 N	640 N					
Chlorodifluoromethane	75-45-6	1700 S	1700 S	1700 S	810 N	100000 N			52000 N	220000 N	
Chloroethanol, 2-	107-07-3	2200 N	23000 N	39000 N	1.6 N	400 N					
Chloroform	67-66-3	4.5 C	14 C	1900 C	0.44 M	80 M			1.2 C	5.3 C	
Chloromethane	74-87-3	150 N	460 N	1300 S	0.98 N	190 N			94 N	390 N	
Chloromethyl Methyl Ether	107-30-2	0.28 C	0.89 C	110 C	0.00028 C	0.065 C			0.041 C	0.18 C	
Chloronaphthalene, Beta-	91-58-7	6700 N	60000 N	100000 L	77 N	750 N					
Chloronitrobenzene, o-	88-73-3	25 C	77 C	4100 C	0.045 C	2.4 C			0.01 N	0.044 N	
Chloronitrobenzene, p-	100-00-5	88 N	820 N	1800 N	0.33 N	18 N			0.63 N	2.6 N	
Chlorophenol, 2-	95-57-8	550 N	5800 N	9800 N	1.5 N	91 N					

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		Direct Contact			Soil MTG	Tap	Ground Water		Indoor Air		
		Residential	Com/Ind	Excavation	Residential	Residential	Residential	Com/Ind	Residential	Com/Ind	
Name	CASRN	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/m3)	(ug/m3)
Chloropicrin	76-06-2	2.8 N	8.2 N	46 N	0.0049 N	0.83 N			0.42 N	1.8 N	
Chlorothalonil	1897-45-6	1300 N	7400 C	27000 N	10 C	220 C			32 C	140 C	
Chlorotoluene, o-	95-49-8	910 S	910 S	910 S	4.7 N	240 N					
Chlorotoluene, p-	106-43-4	250 S	250 S	250 S	4.8 N	250 N					
Chlorozotocin	54749-90-5	0.032 C	0.096 C	5.2 C	0.000014 C	0.0032 C			0.00041 C	0.0018 C	
Chlorpropham	101-21-3	18000 N	100000 L	100000 L	50 N	2800 N					
Chlorpyrifos	2921-88-2	88 N	820 N	1800 N	2.5 N	8.4 N					
Chlorpyrifos Methyl	5598-13-0	880 N	8200 N	18000 N	11 N	120 N					
Chlorsulfuron	64902-72-3	4500 N	41000 N	87000 N	17 N	990 N					
Chlorthal-dimethyl	1861-32-1	880 N	8200 N	18000 N	2.9 N	120 N					
Chlorthiophos	60238-56-4	71 N	660 N	1400 N	1.4 N	2.8 N					
Chromium(III), Insoluble Salts	16065-83-1	100000 L	100000 L	100000 L	1000000 R	22000 N					
Chromium(VI)	18540-29-9	4.2 C	63 C	2700 C	0.14 C	0.35 C			0.00012 C	0.0015 C	
Chromium, Total	7440-47-3				1000000 R	100 M					
Chrysene	218-01-9	220 C	2900 C	100000 L	250 C	34 C			0.92 C	11 C	
Clofentezine	74115-24-5	1100 N	11000 N	22000 N	280 N	230 N					
Cobalt	7440-48-4	32 N	350 N	590 N	5.4 N	6 N			0.0031 C	0.014 C	
Coke Oven Emissions	8007-45-2								0.016 C	0.2 C	
Copper	7440-50-8	4300 N	47000 N	79000 N	920 M	1300 M					
Copper Cyanide	544-92-3	550 N	5800 N	9800 N		100 N					
Cresol, m-	108-39-4	4500 N	41000 N	87000 N	15 N	930 N			630 N	2600 N	
Cresol, o-	95-48-7	4500 N	41000 N	87000 N	15 N	930 N			630 N	2600 N	
Cresol, p-	106-44-5	8800 N	82000 N	100000 L	30 N	1900 N			630 N	2600 N	
Cresol, p-chloro-m-	59-50-7	8800 N	82000 N	100000 L	33 N	1400 N					
Cresols	1319-77-3	8800 N	82000 N	100000 L	24 N	1500 N			630 N	2600 N	
Crotonaldehyde, trans-	123-73-9	5.2 C	17 C	720 C	0.0016 C	0.4 C					
Cumene	98-82-8	270 S	270 S	270 S	15 N	450 N			420 N	1800 N	
Cupferron	135-20-6	35 C	100 C	5600 C	0.12 C	3.5 C			0.45 C	1.9 C	
Cyanazine	21725-46-2	9.1 C	27 C	1500 C	0.0082 C	0.88 C					
Cyanide (CN-)	57-12-5	3.8 N	12 N	63 N	40 M	200 M			0.83 N	3.5 N	
Cyanogen	460-19-5	110 N	1200 N	2000 N		20 N					

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Chemical		Soil Exposure			Ground Water		Vapor Exposure				
		Direct Contact			Soil MTG	Tap	Ground Water		Indoor Air		
		Residential	Com/Ind	Excavation	Residential	Residential	Residential	Com/Ind	Residential	Com/Ind	
Name	CASRN	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/m3)	(ug/m3)
Cyanogen Bromide	506-68-3	9800 N	100000 L	100000 L		1800 N					
Cyanogen Chloride	506-77-4	5500 N	58000 N	98000 N		1000 N					
Cyclohexane	110-82-7	120 S	120 S	120 S	270 N	13000 N			6300 N	26000 N	
Cyclohexane, 1,2,3,4,5-pentabromo-6-chloro-	87-84-3	340 C	1000 C	52000 C	2.8 C	24 C					
Cyclohexanone	108-94-1	5100 S	5100 S	5100 S	6.6 N	1400 N			730 N	3100 N	
Cyclohexene	110-83-8	280 S	280 S	280 S	0.91 N	70 N			1000 N	4400 N	
Cyclohexylamine	108-91-8	22000 N	100000 L	100000 L	20 N	3800 N					
Cyfluthrin	68359-37-5	2200 N	21000 N	43000 N	630 N	120 N					
Cyhalothrin	68085-85-8	450 N	4100 N	8700 N	1400 N	100 N					
Cypermethrin	52315-07-8	880 N	8200 N	18000 N	640 N	200 N					
Cyromazine	66215-27-8	660 N	6200 N	13000 N	0.77 N	150 N					
Dalapon	75-99-0	2700 N	25000 N	52000 N	0.83 M	200 M					
Daminozide	1596-84-5	420 C	1300 C	67000 C	0.19 C	43 C			5.5 C	24 C	
DDD	72-54-8	32 C	96 C	5200 C	1.5 C	0.32 C			0.41 C	1.8 C	
DDE, p,p'-	72-55-9	28 C	93 C	4000 C	2.2 C	0.46 C			0.29 C	1.3 C	
DDT	50-29-3	27 C	85 C	940 N	16 C	2.3 C			0.29 C	1.3 C	
Decabromodiphenyl ether, 2,2',3,3',4,4',5,5',6,6'- (BDE-209)	1163-19-5	620 N	5700 N	12000 N	1500 N	140 N					
Demeton	8065-48-3	3.5 N	33 N	70 N		0.42 N					
Di(2-ethylhexyl)adipate	103-23-1	6300 C	19000 C	100000 L	580 M	400 M					
Diallate	2303-16-4	120 C	380 C	20000 C	0.16 C	5.4 C					
Diammonium phosphate	7783-28-0	100000 L	100000 L	100000 L		970000 N					
Diazinon	333-41-5	62 N	570 N	1200 N	1.3 N	10 N					
Dibenz[a,h]anthracene	53-70-3	0.22 C	2.9 C	160 C	2.6 C	0.034 C			0.0084 C	0.1 C	
Dibenzo(a,e)pyrene	192-65-4	0.59 C	1.8 C	98 C	17 C	0.065 C			0.026 C	0.11 C	
Dibenzofuran	132-64-9	100 N	1000 N	1900 N	2.9 N	7.9 N					
Dibenzothiophene	132-65-0	1100 N	12000 N	20000 N	24 N	65 N					
Dibromo-3-chloropropane, 1,2-	96-12-8	0.074 C	0.64 C	86 C	0.0017 M	0.2 M			0.0017 C	0.02 C	
Dibromobenzene, 1,3-	108-36-1	43 N	160 S	160 S	0.1 N	5.3 N					
Dibromobenzene, 1,4-	106-37-6	1100 N	12000 N	20000 N	2.5 N	130 N					
Dibromochloromethane	124-48-1	120 C	390 C	800 S	0.43 M	80 M					
Dibromoethane, 1,2-	106-93-4	0.5 C	1.6 C	180 C	0.00028 M	0.05 M			0.047 C	0.2 C	

Table A-6: IDEM OLQ 2016 Screening Levels

Chemical		Soil Exposure			Ground Water		Vapor Exposure				
		Direct Contact			Soil MTG	Tap	Ground Water		Indoor Air		
		Residential	Com/Ind	Excavation	Residential	Residential	Residential	Com/Ind	Residential	Com/Ind	
Name	CASRN	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/m3)	(ug/m3)
Dibromomethane (Methylene Bromide)	74-95-3	34 N	99 N	550 N	0.041 N	8.3 N				4.2 N	18 N
Dibutyl Phthalate	84-74-2	8800 N	82000 N	100000 L	45 N	900 N					
Dibutyltin Compounds	NA	27 N	250 N	520 N		6 N					
Dicalcium phosphate	7757-93-9	100000 L	100000 L	100000 L		970000 N					
Dicamba	1918-00-9	2700 N	25000 N	52000 N	2.9 N	570 N					
Dichloro-2-butene, 1,4-	764-41-0	0.029 C	0.094 C	13 C	0.00013 C	0.013 C				0.0067 C	0.029 C
Dichloro-2-butene, cis-1,4-	1476-11-5	0.1 C	0.32 C	44 C	0.00012 C	0.013 C				0.0067 C	0.029 C
Dichloro-2-butene, trans-1,4-	110-57-6	0.1 C	0.32 C	44 C	0.00012 C	0.013 C				0.0067 C	0.029 C
Dichloroacetic Acid	79-43-6	150 C	460 C	7000 N	0.25 M	60 M					
Dichlorobenzene, 1,2-	95-50-1	380 S	380 S	380 S	12 M	600 M				210 N	880 N
Dichlorobenzene, 1,4-	106-46-7	36 C	110 C	16000 C	1.4 M	75 M				2.6 C	11 C
Dichlorobenzidine, 3,3'-	91-94-1	17 C	51 C	2700 C	0.17 C	1.3 C				0.083 C	0.36 C
Dichlorobenzophenone, 4,4'-	90-98-2	800 N	7400 N	16000 N	9.4 N	78 N					
Dichlorodifluoromethane	75-71-8	120 N	370 N	850 S	6 N	200 N				100 N	440 N
Dichloroethane, 1,1-	75-34-3	50 C	160 C	1700 S	0.16 C	28 C	130 C	550 C		18 C	77 C
Dichloroethane, 1,2-	107-06-2	6.4 C	20 C	730 N	0.028 M	5 M	50 C	210 C		1.1 C	4.7 C
Dichloroethylene, 1,1-	75-35-4	320 N	1000 N	1200 S	0.05 M	7 M	300 N	1300 N		210 N	880 N
Dichloroethylene, 1,2-cis-	156-59-2	220 N	2300 N	2400 S	0.41 M	70 M					
Dichloroethylene, 1,2-trans-	156-60-5	1900 S	1900 S	1900 S	0.62 M	100 M					
Dichlorophenol, 2,4-	120-83-2	270 N	2500 N	5200 N	1.1 N	46 N					
Dichlorophenoxy Acetic Acid, 2,4-	94-75-7	980 N	9600 N	19000 N	0.36 M	70 M					
Dichlorophenoxy)butyric Acid, 4-(2,4-	94-82-6	710 N	6600 N	14000 N	2.3 N	120 N					
Dichloropropane, 1,2-	78-87-5	14 C	44 C	370 N	0.033 M	5 M				2.8 C	12 C
Dichloropropane, 1,3-	142-28-9	1500 S	1500 S	1500 S	2.6 N	370 N					
Dichloropropanol, 2,3-	616-23-9	270 N	2500 N	5200 N	0.25 N	59 N					
Dichloropropene, 1,3-	542-75-6	25 C	82 C	1600 S	0.034 C	4.7 C				7 C	31 C
Dichlorvos	62-73-7	27 C	79 C	870 N	0.016 C	2.6 C				0.34 C	1.5 C
Dicrotophos	141-66-2	8.8 N	82 N	180 N	0.0093 N	2 N					
Dicyclopentadiene	77-73-6	1.8 N	5.4 N	30 N	0.043 N	0.63 N				0.31 N	1.3 N
Dieldrin	60-57-1	0.48 C	1.4 C	75 C	0.015 C	0.018 C				0.0061 C	0.027 C
Diesel Engine Exhaust	NA									0.094 C	0.41 C

Appendix A: Screening Levels

Table A-6: IDEM OLQ 2016 Screening Levels

Chemical		Soil Exposure			Ground Water		Vapor Exposure				
		Direct Contact			Soil MTG	Tap	Ground Water		Indoor Air		
		Residential	Com/Ind	Excavation	Residential	Residential	Residential	Com/Ind	Residential	Com/Ind	
Name	CASRN	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/m3)	(ug/m3)
Diethanolamine	111-42-2	180 N	1600 N	3400 N	0.16 N	40 N			0.21 N	0.88 N	
Diethyl Phthalate	84-66-2	71000 N	100000 L	100000 L	120 N	15000 N					
Diethylene Glycol Monobutyl Ether	112-34-5	2700 N	24000 N	51000 N	2.6 N	600 N			0.1 N	0.44 N	
Diethylene Glycol Monoethyl Ether	111-90-0	5300 N	48000 N	100000 L	4.8 N	1200 N			0.31 N	1.3 N	
Diethylformamide	617-84-5	110 N	1200 N	2000 N	0.082 N	20 N					
Diethylstilbestrol	56-53-1	0.022 C	0.066 C	3.5 C	0.0056 C	0.00051 C			0.00028 C	0.0012 C	
Difenzoquat	43222-48-6	7100 N	66000 N	100000 L		1600 N					
Diflubenzuron	35367-38-5	1800 N	16000 N	34000 N	6.5 N	290 N					
Difluoroethane, 1,1-	75-37-6	1400 S	1400 S	1400 S	560 N	83000 N			42000 N	180000 N	
Dihydrosafrole	94-58-6	140 C	450 C	26000 C	0.037 C	3 C			2.2 C	9.4 C	
Diisopropyl Ether	108-20-3	2300 S	2300 S	2300 S	7.6 N	1500 N			730 N	3100 N	
Diisopropyl Methylphosphonate	1445-75-6	530 S	530 S	530 S	9.1 N	1600 N					
Dimagnesium phosphate	7782-75-4	100000 L	100000 L	100000 L		970000 N					
Dimethipin	55290-64-7	1800 N	16000 N	34000 N	1.8 N	400 N					
Dimethoate	60-51-5	18 N	160 N	340 N	0.018 N	4 N					
Dimethoxybenzidine, 3,3'-	119-90-4	4.8 C	14 C	750 C	0.011 C	0.47 C					
Dimethyl methylphosphonate	756-79-6	4500 C	14000 C	100000 L	1.9 C	460 C					
Dimethylamino azobenzene [p-]	60-11-7	1.7 C	5 C	270 C	0.0043 C	0.05 C			0.022 C	0.094 C	
Dimethylaniline HCl, 2,4-	21436-96-4	13 C	40 C	2100 C	0.023 C	1.3 C					
Dimethylaniline, 2,4-	95-68-1	38 C	110 C	3400 N	0.042 C	3.7 C					
Dimethylaniline, N,N-	121-69-7	220 N	830 S	830 S	0.25 N	35 N					
Dimethylbenz(a)anthracene, 7,12-	57-97-6	0.0064 C	0.084 C	4.7 C	0.02 C	0.001 C			0.00014 C	0.0017 C	
Dimethylbenzidine, 3,3'-	119-93-7	0.69 C	2.1 C	110 C	0.0086 C	0.065 C					
Dimethylformamide	68-12-2	3600 N	15000 N	64000 N	0.25 N	61 N			31 N	130 N	
Dimethylhydrazine, 1,1-	57-14-7	0.08 N	0.24 N	1.3 N	0.000019 N	0.0042 N			0.0021 N	0.0088 N	
Dimethylhydrazine, 1,2-	540-73-8	0.012 C	0.041 C	2.2 C	0.0000013 C	0.00028 C			0.00018 C	0.00077 C	
Dimethylphenol, 2,4-	105-67-9	1800 N	16000 N	34000 N	8.5 N	360 N					
Dimethylphenol, 2,6-	576-26-1	53 N	490 N	1000 N	0.26 N	11 N					
Dimethylphenol, 3,4-	95-65-8	88 N	820 N	1800 N	0.43 N	18 N					
Dimethylterephthalate	120-61-6	11000 N	100000 L	100000 L	10 N	1900 N					
Dimethylvinylchloride	513-37-1	2.8 C	8.9 C	1200 C	0.047 C	3.3 C			2.2 C	9.4 C	

Table A-6: IDEM OLQ 2016 Screening Levels

Chemical		Soil Exposure			Ground Water		Vapor Exposure			
		Direct Contact			Soil MTG	Tap	Ground Water		Indoor Air	
		Residential	Com/Ind	Excavation	Residential	Residential	Residential	Com/Ind	Residential	Com/Ind
Name	CASRN	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(ug/L)	(ug/L)	(ug/L)	(ug/m3)	(ug/m3)
Dinitrobenzene, 1,2-	528-29-0	8.8 N	82 N	180 N	0.035 N	1.9 N				
Dinitrobenzene, 1,3-	99-65-0	8.8 N	82 N	180 N	0.036 N	2 N				
Dinitrobenzene, 1,4-	100-25-4	8.8 N	82 N	180 N	0.036 N	2 N				
Dinitro-o-cresol, 4,6-	534-52-1	7.1 N	66 N	140 N	0.051 N	1.5 N				
Dinitro-o-cyclohexyl Phenol, 4,6-	131-89-5	180 N	1600 N	3400 N	15 N	23 N				
Dinitrophenol, 2,4-	51-28-5	180 N	1600 N	3400 N	0.87 N	39 N				
Dinitrotoluene Mixture, 2,4/2,6-	NA	11 C	34 C	1800 C	0.03 C	1.1 C				
Dinitrotoluene, 2,4-	121-14-2	24 C	74 C	3400 N	0.065 C	2.4 C			0.32 C	1.4 C
Dinitrotoluene, 2,6-	606-20-2	5 C	15 C	520 N	0.013 C	0.49 C				
Dinitrotoluene, 2-Amino-4,6-	35572-78-2	210 N	2300 N	3800 N	0.6 N	39 N				
Dinitrotoluene, 4-Amino-2,6-	19406-51-0	210 N	2300 N	3800 N	0.6 N	39 N				
Dinitrotoluene, Technical grade	25321-14-6	17 C	51 C	1600 N	0.027 C	1 C				
Dinoseb	88-85-7	88 N	820 N	1800 N	1.2 M	7 M				
Dioxane, 1,4-	123-91-1	74 C	240 C	13000 C	0.019 C	4.6 C			5.6 C	25 C
Dioxin: Hexachlorodibenzo-p-dioxin, Mixture	NA	0.0014 C	0.0047 C	0.21 C	0.0036 C	0.00013 C			0.000022 C	0.000094 C
Dioxin: TCDD, 2,3,7,8-	1746-01-6	0.000067 C	0.00022 C	0.0013 N	0.0003 M	0.00003 M			0.00000074 C	0.0000032 C
Diphenamid	957-51-7	2700 N	25000 N	52000 N	100 N	530 N				
Diphenyl Sulfone	127-63-9	71 N	660 N	1400 N	0.73 N	15 N				
Diphenylamine	122-39-4	2200 N	21000 N	43000 N	11 N	310 N				
Diphenylhydrazine, 1,2-	122-66-7	9.5 C	29 C	1500 C	0.05 C	0.78 C			0.13 C	0.56 C
Dipotassium phosphate	7758-11-4	100000 L	100000 L	100000 L		970000 N				
Diquat	85-00-7	200 N	1800 N	3900 N	7.5 M	20 M				
Direct Black 38	1937-37-7	1.1 C	3.2 C	170 C	1100 C	0.11 C			0.0002 C	0.00088 C
Direct Blue 6	2602-46-2	1 C	3.1 C	160 C	3500 C	0.11 C			0.0002 C	0.00088 C
Direct Brown 95	16071-86-6	1.1 C	3.4 C	180 C		0.12 C			0.0002 C	0.00088 C
Disodium phosphate	7558-79-4	100000 L	100000 L	100000 L		970000 N				
Disulfoton	298-04-4	3.5 N	33 N	70 N	0.019 N	0.5 N				
Dithiane, 1,4-	505-29-3	1100 N	12000 N	20000 N	2 N	200 N				
Diuron	330-54-1	180 N	1600 N	3400 N	0.3 N	36 N				
Dodine	2439-10-3	350 N	3300 N	7000 N	8.3 N	80 N				
Endosulfan	115-29-7	660 N	7000 N	12000 N	27 N	100 N				

Appendix A: Screening Levels

Table A-6: IDEM OLQ 2016 Screening Levels

Chemical		Soil Exposure			Ground Water		Vapor Exposure				
		Direct Contact			Soil MTG	Tap	Ground Water		Indoor Air		
		Residential	Com/Ind	Excavation	Residential	Residential	Residential	Com/Ind	Residential	Com/Ind	
Name	CASRN	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/m3)	(ug/m3)
Endothall	145-73-3	1800 N	16000 N	34000 N	0.48 M	100 M					
Endrin	72-20-8	27 N	250 N	520 N	1.6 M	2 M					
Epichlorohydrin	106-89-8	27 N	82 N	440 N	0.0088 N	2 N			1 N	4.4 N	
Epoxybutane, 1,2-	106-88-7	220 N	670 N	3700 N	0.19 N	42 N			21 N	88 N	
EPTC	759-94-4	2800 N	29000 N	49000 N	4 N	380 N					
Ethanol, 2-(2-methoxyethoxy)-	111-77-3	3500 N	33000 N	70000 N	3.2 N	800 N					
Ethephon	16672-87-0	450 N	4100 N	8700 N	0.42 N	100 N					
Ethion	563-12-2	45 N	410 N	870 N	0.17 N	4.3 N					
Ethoxyethanol Acetate, 2-	111-15-9	3600 N	14000 N	24000 S	0.5 N	120 N			63 N	260 N	
Ethoxyethanol, 2-	110-80-5	7300 N	47000 N	100000 L	1.4 N	340 N			210 N	880 N	
Ethyl Acetate	141-78-6	870 N	2600 N	11000 S	0.59 N	140 N			73 N	310 N	
Ethyl Acrylate	140-88-5	66 N	210 N	1100 N	0.062 N	14 N			8.3 N	35 N	
Ethyl Chloride (Chloroethane)	75-00-3	2100 S	2100 S	2100 S	120 N	21000 N			10000 N	44000 N	
Ethyl Ether	60-29-7	10000 S	10000 S	10000 S	17 N	3900 N					
Ethyl Methacrylate	97-63-2	1100 S	1100 S	1100 S	3 N	630 N			310 N	1300 N	
Ethylbenzene	100-41-4	81 C	250 C	480 S	16 M	700 M			11 C	49 C	
Ethylene Cyanohydrin	109-78-4	6200 N	57000 N	100000 L	5.7 N	1400 N					
Ethylene Diamine	107-15-3	9800 N	100000 L	100000 L	8.3 N	1800 N					
Ethylene Glycol	107-21-1	100000 L	100000 L	100000 L	160 N	40000 N			420 N	1800 N	
Ethylene Glycol Monobutyl Ether	111-76-2	8800 N	82000 N	100000 L	8.2 N	2000 N			1700 N	7000 N	
Ethylene Oxide	75-21-8	2.5 C	7.9 C	940 C	0.0021 C	0.51 C			0.32 C	1.4 C	
Ethylene Thiourea	96-45-7	7.1 N	66 N	140 N	0.0072 N	1.6 N			2.2 C	9.4 C	
Ethyleneimine	151-56-4	0.038 C	0.12 C	10 C	0.00001 C	0.0024 C			0.0015 C	0.0065 C	
Ethylphthalyl Ethyl Glycolate	84-72-0	100000 L	100000 L	100000 L	2600 N	58000 N					
Ethyl-p-nitrophenyl Phosphonate	2104-64-5	0.88 N	8.2 N	18 N	0.055 N	0.089 N					
Fenamiphos	22224-92-6	22 N	210 N	430 N	0.088 N	4.4 N					
Fenpropathrin	39515-41-8	2200 N	21000 N	43000 N	58 N	64 N					
Fenvalerate	51630-58-1	2200 N	21000 N	43000 N	6300 N	500 N					
Fluometuron	2164-17-2	1100 N	11000 N	22000 N	3.7 N	240 N					
Fluoranthene	206-44-0	3400 N	30000 N	68000 N	1800 N	800 N					
Fluorene	86-73-7	3400 N	30000 N	68000 N	110 N	290 N					

Table A-6: IDEM OLQ 2016 Screening Levels

Chemical		Soil Exposure			Ground Water		Vapor Exposure				
		Direct Contact			Soil MTG	Tap	Ground Water		Indoor Air		
		Residential	Com/Ind	Excavation	Residential	Residential	Residential	Com/Ind	Residential	Com/Ind	
Name	CASRN	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/m3)	(ug/m3)
Fluoride	16984-48-8	4300 N	47000 N	79000 N		800 N				14 N	57 N
Fluorine (Soluble Fluoride)	7782-41-4	6600 N	70000 N	100000 L	12000 M	4000 M				14 N	57 N
Fluridone	59756-60-4	7100 N	66000 N	100000 L	3200 N	1400 N					
Flurprimidol	56425-91-3	1800 N	16000 N	34000 N	31 N	340 N					
Flusilazole	85509-19-9	62 N	570 N	1200 N	36 N	11 N					
Flutolanil	66332-96-5	5300 N	49000 N	100000 L	100 N	950 N					
Fluvalinate	69409-94-5	880 N	8200 N	18000 N	5800 N	200 N					
Folpet	133-07-3	2200 C	6600 C	100000 L	0.94 C	200 C					
Fomesafen	72178-02-0	41 C	120 C	6400 C	0.26 C	3.9 C					
Fonofos	944-22-9	180 N	1600 N	3400 N	0.92 N	24 N					
Formaldehyde	50-00-0	240 C	730 C	18000 N	0.017 C	4.3 C				2.2 C	9.4 C
Formic Acid	64-18-6	41 N	120 N	670 N	0.0025 N	0.63 N				0.31 N	1.3 N
Fosetyl-AL	39148-24-8	100000 L	100000 L	100000 L	16000 N	60000 N					
Furan	110-00-9	100 N	1000 N	1900 N	0.14 N	19 N					
Furazolidone	67-45-8	2 C	6 C	320 C	0.0077 C	0.2 C					
Furfural	98-01-1	290 N	2600 N	5400 N	0.16 N	38 N				52 N	220 N
Furium	531-82-8	5 C	15 C	820 C	0.014 C	0.51 C				0.065 C	0.29 C
Furmecyclox	60568-05-0	250 C	770 C	41000 C	0.23 C	11 C				3.3 C	14 C
Glufosinate, Ammonium	77182-82-2	35 N	330 N	700 N	0.035 N	8 N					
Glutaraldehyde	111-30-8	100000 L	100000 L	100000 L						0.083 N	0.35 N
Glycidyl	765-34-4	32 N	210 N	570 N	0.0069 N	1.7 N				1 N	4.4 N
Glyphosate	1071-83-6	8800 N	82000 N	100000 L	62 M	700 M					
Guanidine	113-00-8	1100 N	12000 N	20000 N	0.9 N	200 N					
Guanidine Chloride	50-01-1	1800 N	16000 N	34000 N		400 N					
Haloxypop, Methyl	69806-40-2	4.5 N	41 N	87 N	0.17 N	0.76 N					
Heptachlor	76-44-8	1.8 C	6.3 C	290 C	0.66 M	0.4 M				0.022 C	0.094 C
Heptachlor Epoxide	1024-57-3	0.98 C	3.3 C	25 N	0.082 M	0.2 M				0.011 C	0.047 C
Hexabromobenzene	87-82-1	220 N	2300 N	3900 N	4.7 N	40 N					
Hexabromodiphenyl ether, 2,2',4,4',5,5'- (BDE-153)	68631-49-2	18 N	160 N	340 N		4 N					
Hexachlorobenzene	118-74-1	2.9 C	9.6 C	630 C	0.25 M	1 M				0.061 C	0.27 C
Hexachlorobutadiene	87-68-3	17 C	17 S	17 S	0.054 C	1.4 C				1.3 C	5.6 C

Appendix A: Screening Levels

Table A-6: IDEM OLQ 2016 Screening Levels

Chemical		Soil Exposure			Ground Water		Vapor Exposure				
		Direct Contact			Soil MTG	Tap	Ground Water		Indoor Air		
		Residential	Com/Ind	Excavation	Residential	Residential	Residential	Com/Ind	Residential	Com/Ind	
Name	CASRN	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/m3)	(ug/m3)
Hexachlorocyclohexane, Alpha-	319-84-6	1.2 C	3.6 C	190 C	0.0084 C	0.072 C				0.016 C	0.068 C
Hexachlorocyclohexane, Beta-	319-85-7	4.2 C	13 C	670 C	0.029 C	0.25 C				0.053 C	0.23 C
Hexachlorocyclohexane, Gamma- (Lindane)	58-89-9	8 C	25 C	560 N	0.023 M	0.2 M				0.091 C	0.4 C
Hexachlorocyclohexane, Technical	608-73-1	4.2 C	13 C	670 C	0.029 C	0.25 C				0.055 C	0.24 C
Hexachlorocyclopentadiene	77-47-4	2.5 N	7.5 N	16 S	3.1 M	50 M				0.21 N	0.88 N
Hexachloroethane	67-72-1	25 C	80 C	1100 N	0.04 C	3.3 C				2.6 C	11 C
Hexachlorophene	70-30-4	27 N	250 N	520 N	160 N	6 N					
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	85 C	280 C	5800 N	0.053 C	7 C					
Hexamethylene Diisocyanate, 1,6-	822-06-0	4.3 N	13 N	72 N	0.0041 N	0.021 N				0.01 N	0.044 N
Hexamethylphosphoramide	680-31-9	35 N	330 N	700 N	0.035 N	8 N					
Hexane, N-	110-54-3	140 S	140 S	140 S	210 N	1500 N				730 N	3100 N
Hexanedioic Acid	124-04-9	100000 L	100000 L	100000 L	200 N	40000 N					
Hexanone, 2-	591-78-6	280 N	1300 N	3300 S	0.18 N	38 N				31 N	130 N
Hexazinone	51235-04-2	2900 N	27000 N	58000 N	5.9 N	640 N					
Hexythiazox	78587-05-0	2200 N	21000 N	43000 N	9.8 N	110 N					
Hydramethylnon	67485-29-4	27 N	250 N	520 N	42000 N	5.9 N					
Hydrazine	302-01-2	3.2 C	11 C	460 C		0.011 C				0.0057 C	0.025 C
Hydrazine Sulfate	10034-93-2	3.2 C	11 C	460 C		0.26 C				0.0057 C	0.025 C
Hydrogen Chloride	7647-01-0	100000 L	100000 L	100000 L		42 N				21 N	88 N
Hydrogen Cyanide	74-90-8	32 N	150 N	540 N	0.3 N	1.5 N				0.83 N	3.5 N
Hydrogen Fluoride	7664-39-3	4300 N	47000 N	79000 N		28 N				15 N	61 N
Hydrogen Sulfide	7783-06-4	100000 L	100000 L	100000 L		4.2 N				2.1 N	8.8 N
Hydroquinone	123-31-9	130 C	380 C	21000 C	0.18 C	13 C					
Imazalil	35554-44-0	1100 N	11000 N	22000 N	65 N	190 N					
Imazaquin	81335-37-7	22000 N	100000 L	100000 L	490 N	4900 N					
Imazethapyr	81335-77-5	22000 N	100000 L	100000 L	83 N	4700 N					
Indeno[1,2,3-cd]pyrene	193-39-5	2.2 C	29 C	1600 C	27 C	0.34 C				0.092 C	1.1 C
Iodine	7553-56-2	1100 N	12000 N	20000 N	240 N	200 N					
Iprodione	36734-19-7	3500 N	33000 N	70000 N	4.5 N	740 N					
Iron	7439-89-6	77000 N	100000 L	100000 L	7100 N	14000 N					
Isobutyl Alcohol	78-83-1	10000 S	10000 S	10000 S	24 N	5900 N					

Table A-6: IDEM OLQ 2016 Screening Levels

Chemical		Soil Exposure			Ground Water		Vapor Exposure				
		Direct Contact			Soil MTG	Tap	Ground Water		Indoor Air		
		Residential	Com/Ind	Excavation	Residential	Residential	Residential	Com/Ind	Residential	Com/Ind	
Name	CASRN	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/m3)	(ug/m3)
Isophorone	78-59-1	8000 C	24000 C	100000 L	5.2 C	780 C			2100 N	8800 N	
Isopropanol	33820-53-0	1700 N	18000 N	30000 N	18 N	40 N					
Isopropanol	67-63-0	7800 N	24000 N	100000 L	1.7 N	410 N			210 N	880 N	
Isopropyl Methyl Phosphonic Acid	1832-54-8	8800 N	82000 N	100000 L	8.6 N	2000 N					
Isoxaben	82558-50-7	4500 N	41000 N	87000 N	40 N	730 N					
JP-7	NA	100000 L	100000 L	100000 L		630 N			310 N	1300 N	
Lactofen	77501-63-4	180 N	1600 N	3400 N	23 N	25 N					
Lead acetate	301-04-2	27 C	82 C	4500 C		2.8 C			0.35 C	1.5 C	
Lead and Compounds	7439-92-1	400	800	1000	270 N	15 M			0.15 N		
Lead Chromate	7758-97-6	4.2 C	62 C	2700 C		0.41 C			0.000068 C	0.00082 C	
Lead Phosphate	7446-27-7	1100 C	3800 C	100000 L		91 C			2.3 C	10 C	
Lead subacetate	1335-32-6	900 C	2700 C	100000 L		92 C			2.3 C	10 C	
Lewisite	541-25-3	0.55 N	5.8 N	9.8 N	0.00076 N	0.09 N					
Linuron	330-55-2	180 N	1600 N	3400 N	0.58 N	33 N					
Lithium	7439-93-2	220 N	2300 N	3900 N	240 N	40 N					
Lithium Perchlorate	7791-03-9	77 N	820 N	1400 N		14 N					
Malathion	121-75-5	1800 N	16000 N	34000 N	2 N	390 N					
Maleic Anhydride	108-31-6	8800 N	80000 N	100000 L	7.7 N	1900 N			0.73 N	3.1 N	
Maleic Hydrazide	123-33-1	45000 N	100000 L	100000 L	41 N	10000 N					
Malononitrile	109-77-3	8.8 N	82 N	180 N	0.0083 N	2 N					
Mancozeb	8018-01-7	2700 N	25000 N	52000 N	15 N	540 N					
Maneb	12427-38-2	450 N	4100 N	8700 N	2.8 N	98 N					
Manganese (Diet)	7439-96-5										
Manganese (Non-diet)	7439-96-5	2500 N	26000 N	46000 N	560 N	430 N			0.052 N	0.22 N	
MCPA	94-74-6	45 N	410 N	870 N	0.039 N	7.5 N					
MCPB	94-81-5	880 N	8200 N	18000 N	1.2 N	150 N					
MCPP	93-65-2	88 N	820 N	1800 N	0.095 N	16 N					
Mephosfolan	950-10-7	8 N	74 N	160 N	0.053 N	1.8 N					
Mepiquat Chloride	24307-26-4	2700 N	25000 N	52000 N	4 N	600 N					
Mercuric Chloride (and other Mercury salts)	7487-94-7	32 N	350 N	590 N	2.1 M	2 M			0.31 N	1.3 N	
Mercury (elemental)	7439-97-6	3.1 S	3.1 S	3.1 S	2.1 M	2 M			0.31 N	1.3 N	

Appendix A: Screening Levels

Table A-6: IDEM OLQ 2016 Screening Levels

Chemical		Soil Exposure			Ground Water		Vapor Exposure				
		Direct Contact			Soil MTG	Tap	Ground Water		Indoor Air		
		Residential	Com/Ind	Excavation	Residential	Residential	Residential	Com/Ind	Residential	Com/Ind	
Name	CASRN	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/m3)	(ug/m3)
Merphos	150-50-5	3.2 N	35 N	59 N	1.2 N	0.6 N					
Merphos Oxide	78-48-8	2.7 N	25 N	52 N	0.0083 N	0.085 N					
Metalaxyl	57837-19-1	5300 N	49000 N	100000 L	6.7 N	1200 N					
Methacrylonitrile	126-98-7	11 N	100 N	190 N	0.0086 N	1.9 N				31 N	130 N
Methamidophos	10265-92-6	4.5 N	41 N	87 N	0.0042 N	1 N					
Methanol	67-56-1	100000 L	100000 L	100000 L	81 N	20000 N				21000 N	88000 N
Methidathion	950-37-8	88 N	820 N	1800 N	0.092 N	19 N					
Methomyl	16752-77-5	2200 N	21000 N	43000 N	2.2 N	500 N					
Methoxy-5-nitroaniline, 2-	99-59-2	150 C	470 C	25000 C	0.1 C	15 C				2 C	8.8 C
Methoxychlor	72-43-5	450 N	4100 N	8700 N	43 M	40 M					
Methoxyethanol Acetate, 2-	110-49-6	150 N	510 N	2500 N	0.0086 N	2.1 N				1 N	4.4 N
Methoxyethanol, 2-	109-86-4	460 N	3500 N	8100 N	0.12 N	29 N				21 N	88 N
Methyl Acetate	79-20-9	29000 S	29000 S	29000 S	83 N	20000 N					
Methyl Acrylate	96-33-3	210 N	610 N	3400 N	0.18 N	42 N				21 N	88 N
Methyl Ethyl Ketone (2-Butanone)	78-93-3	28000 S	28000 S	28000 S	23 N	5600 N				5200 N	22000 N
Methyl Hydrazine	60-34-4	1.4 N	4.4 N	24 N	0.00019 N	0.042 N				0.021 N	0.088 N
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	108-10-1	3400 S	3400 S	3400 S	28 N	6300 N				3100 N	13000 N
Methyl Isocyanate	624-83-9	6.4 N	19 N	110 N	0.012 N	2.1 N				1 N	4.4 N
Methyl Mercury	22967-92-6	11 N	120 N	200 N		2 N					
Methyl Methacrylate	80-62-6	2400 S	2400 S	2400 S	6.1 N	1400 N				730 N	3100 N
Methyl methanesulfonate	66-27-3	77 C	230 C	12000 C	0.033 C	7.9 C				1 C	4.4 C
Methyl Parathion	298-00-0	22 N	210 N	430 N	0.15 N	4.5 N					
Methyl Phosphonic Acid	993-13-5	5300 N	49000 N	100000 L	4.9 N	1200 N					
Methyl Styrene (Mixed Isomers)	25013-15-4	390 S	390 S	390 S	0.75 N	23 N				42 N	180 N
Methyl tert-Butyl Ether (MTBE)	1634-04-4	660 C	2100 C	8900 S	0.63 C	140 C				110 C	470 C
Methyl-1,4-benzenediamine dihydrochloride, 2-	615-45-2	27 N	250 N	520 N	0.072 N	6 N					
Methyl-5-Nitroaniline, 2-	99-55-8	840 C	2600 C	34000 N	0.91 C	82 C					
Methylaniline Hydrochloride, 2-	636-21-5	59 C	180 C	9300 C	0.052 C	6 C				0.76 C	3.3 C
Methylarsonic acid	124-58-3	880 N	8200 N	18000 N		200 N					
Methylbenzene,1-4-diamine monohydrochloride, 2-	74612-12-7	18 N	160 N	340 N		4 N					
Methylbenzene-1,4-diamine sulfate, 2-	615-50-9	27 N	230 C	520 N		6 N					

Table A-6: IDEM OLQ 2016 Screening Levels

Chemical		Soil Exposure			Ground Water		Vapor Exposure				
		Direct Contact			Soil MTG	Tap	Ground Water		Indoor Air		
		Residential	Com/Ind	Excavation	Residential	Residential	Residential	Com/Ind	Residential	Com/Ind	
Name	CASRN	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/m3)	(ug/m3)
Methylcholanthrene, 3-	56-49-5	0.077 C	1 C	56 C	0.42 C	0.011 C				0.0016 C	0.019 C
Methylene Chloride	75-09-2	490 N	3200 N	3300 S	0.025 M	5 M				630 N	2600 N
Methylene-bis(2-chloroaniline), 4,4'-	101-14-4	17 C	230 C	3400 N	0.37 C	1.6 C				0.024 C	0.29 C
Methylene-bis(N,N-dimethyl) Aniline, 4,4'-	101-61-1	170 C	500 C	27000 C	0.53 C	4.8 C				2.2 C	9.4 C
Methylenebisbenzenamine, 4,4'-	101-77-9	4.8 C	14 C	750 C	0.042 C	0.47 C				0.061 C	0.27 C
Methylenediphenyl Diisocyanate	101-68-8	100000 L	100000 L	100000 L						0.63 N	2.6 N
Methylnaphthalene, 1-	90-12-0	250 C	390 S	390 S	1.2 C	11 C					
Methylnaphthalene, 2-	91-57-6	340 N	3000 N	6800 N	3.7 N	36 N					
Methyl-N-nitro-N-nitrosoguanidine, N-	70-25-7	0.91 C	2.8 C	150 C	0.00065 C	0.094 C				0.012 C	0.051 C
Methylstyrene, Alpha-	98-83-9	500 S	500 S	500 S	25 N	780 N					
Metolachlor	51218-45-2	13000 N	100000 L	100000 L	64 N	2700 N					
Metribuzin	21087-64-9	2200 N	21000 N	43000 N	3 N	490 N					
Metsulfuron-methyl	74223-64-6	22000 N	100000 L	100000 L	38 N	4900 N					
Mineral oils	8012-95-1	0.34 S	0.34 S	0.34 S	47000 N	60000 N					
Mirex	2385-85-5	0.5 C	1.7 C	74 C	0.13 C	0.0088 C				0.0055 C	0.024 C
Molinate	2212-67-1	180 N	1600 N	3400 N	0.34 N	30 N					
Molybdenum	7439-98-7	550 N	5800 N	9800 N	41 N	100 N					
Monoaluminum phosphate	13530-50-2	100000 L	100000 L	100000 L		970000 N					
Monoammonium phosphate	7722-76-1	100000 L	100000 L	100000 L		970000 N					
Monocalcium phosphate	7758-23-8	100000 L	100000 L	100000 L		970000 N					
Monochloramine	10599-90-3	11000 N	100000 L	100000 L		4000 M					
Monomagnesium phosphate	7757-86-0	100000 L	100000 L	100000 L		970000 N					
Monomethylaniline	100-61-8	180 N	1600 N	3400 N	0.28 N	38 N					
Monopotassium phosphate	7778-77-0	100000 L	100000 L	100000 L		970000 N					
Monosodium phosphate	7558-80-7	100000 L	100000 L	100000 L		970000 N					
Myclobutanil	88671-89-0	2200 N	21000 N	43000 N	110 N	450 N					
N,N'-Diphenyl-1,4-benzenediamine	74-31-7	27 N	250 N	520 N	7.5 N	3.6 N					
Naled	300-76-5	220 N	2300 N	3900 N	0.36 N	40 N					
Naphtha, High Flash Aromatic (HFAN)	64742-95-6	3200 N	35000 N	59000 N		150 N				100 N	440 N
Naphthalene	91-20-3	53 C	170 C	3100 N	0.11 C	1.7 C	110 C	460 C		0.83 C	3.6 C
Naphthylamine, 2-	91-59-8	4.2 C	13 C	670 C	0.04 C	0.39 C					

Appendix A: Screening Levels

Table A-6: IDEM OLQ 2016 Screening Levels

Chemical		Soil Exposure			Ground Water		Vapor Exposure				
		Direct Contact			Soil MTG	Tap	Ground Water		Indoor Air		
		Residential	Com/Ind	Excavation	Residential	Residential	Residential	Com/Ind	Residential	Com/Ind	
Name	CASRN	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/m3)	(ug/m3)
Napropamide	15299-99-7	8800 N	82000 N	100000 L	210 N	1600 N					
Nickel Acetate	373-02-4	940 N	8100 N	19000 N		220 N			0.015 N	0.061 N	
Nickel Carbonate	3333-67-3	940 N	8100 N	19000 N		220 N			0.015 N	0.061 N	
Nickel Carbonyl	13463-39-3	1100 N	11000 N	21000 N		0.029 N			0.015 N	0.061 N	
Nickel Hydroxide	12054-48-7	1100 N	11000 N	21000 N		200 N			0.015 N	0.061 N	
Nickel Oxide	1313-99-1	1200 N	12000 N	21000 N		200 N			0.021 N	0.088 N	
Nickel Refinery Dust	NA	1100 N	11000 N	21000 N		220 N			0.015 N	0.061 N	
Nickel Soluble Salts	7440-02-0	2100 N	22000 N	38000 N	510 N	390 N			0.094 N	0.39 N	
Nickel Sub sulfide	12035-72-2	5.7 C	19 C	800 C		0.45 C			0.015 N	0.061 N	
Nickelocene	1271-28-9	940 N	8100 N	19000 N		220 N			0.015 N	0.061 N	
Nitrate	14797-55-8	100000 L	100000 L	100000 L		10000 M					
Nitrate + Nitrite (as N)	NA					10000 M					
Nitrite	14797-65-0	11000 N	100000 L	100000 L		1000 M					
Nitroaniline, 2-	88-74-4	880 N	8000 N	18000 N	1.6 N	190 N			0.052 N	0.22 N	
Nitroaniline, 4-	100-01-6	350 N	1100 C	7000 N	0.32 C	38 C			6.3 N	26 N	
Nitrobenzene	98-95-3	71 C	220 C	3100 S	0.018 C	1.4 C			0.7 C	3.1 C	
Nitrocellulose	9004-70-0	100000 L	100000 L	100000 L	260000 N	60000000 N					
Nitrofurantoin	67-20-9	6200 N	57000 N	100000 L	12 N	1400 N					
Nitrofurazone	59-87-0	5.9 C	18 C	930 C	0.011 C	0.6 C			0.076 C	0.33 C	
Nitroglycerin	55-63-0	8.8 N	82 N	180 N	0.017 N	2 N					
Nitroguanidine	556-88-7	8800 N	82000 N	100000 L	9.7 N	2000 N					
Nitromethane	75-52-5	76 C	240 C	2100 N	0.028 C	6.4 C			3.2 C	14 C	
Nitropropane, 2-	79-46-9	0.2 C	0.6 C	83 C	0.00011 C	0.021 C			0.01 C	0.045 C	
Nitropyrene, 4-	57835-92-4	5.9 C	18 C	980 C	0.66 C	0.19 C			0.26 C	1.1 C	
Nitrosodiethanolamine, N-	1116-54-7	2.7 C	8.2 C	450 C	0.0011 C	0.28 C			0.035 C	0.15 C	
Nitrosodiethylamine, N-	55-18-5	0.011 C	0.15 C	8.2 C	0.000012 C	0.0017 C			0.00024 C	0.0029 C	
Nitrosodimethylamine, N-	62-75-9	0.028 C	0.34 C	13 N	0.0000054 C	0.0011 C			0.00072 C	0.0088 C	
Nitroso-di-N-butylamine, N-	924-16-3	1.4 C	4.6 C	230 C	0.0011 C	0.027 C			0.018 C	0.077 C	
Nitroso-di-N-propylamine, N-	621-64-7	1.1 C	3.3 C	180 C	0.0017 C	0.11 C			0.014 C	0.061 C	
Nitrosodiphenylamine, N-	86-30-6	1500 C	4700 C	100000 L	13 C	120 C			11 C	47 C	
Nitrosomethylethylamine, N-	10595-95-6	0.28 C	0.91 C	53 C	0.000041 C	0.0071 C			0.0045 C	0.019 C	

Table A-6: IDEM OLQ 2016 Screening Levels

Chemical		Soil Exposure			Ground Water		Vapor Exposure				
		Direct Contact			Soil MTG	Tap	Ground Water		Indoor Air		
		Residential	Com/Ind	Excavation	Residential	Residential	Residential	Com/Ind	Residential	Com/Ind	
Name	CASRN	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/m3)	(ug/m3)
Nitrosomorpholine [N-]	59-89-2	1.1 C	3.4 C	180 C	0.00059 C	0.12 C			0.015 C	0.065 C	
Nitroso-N-ethylurea, N-	759-73-9	0.063 C	0.85 C	45 C	0.000045 C	0.0092 C			0.0013 C	0.016 C	
Nitroso-N-methylurea, N-	684-93-5	0.014 C	0.19 C	10 C	0.0000093 C	0.0021 C			0.0003 C	0.0036 C	
Nitrosopiperidine [N-]	100-75-4	0.81 C	2.4 C	130 C	0.00088 C	0.082 C			0.01 C	0.045 C	
Nitrosopyrrolidine, N-	930-55-2	3.6 C	11 C	600 C	0.0028 C	0.37 C			0.046 C	0.2 C	
Nitrotoluene, m-	99-08-1	8.8 N	82 N	180 N	0.031 N	1.7 N					
Nitrotoluene, o-	88-72-2	45 C	150 C	1500 S	0.058 C	3.1 C					
Nitrotoluene, p-	99-99-0	350 N	1400 C	7000 N	0.8 C	43 C					
Nonane, n-	111-84-2	6.9 S	6.9 S	6.9 S	1.5 N	5.3 N			21 N	88 N	
Norflurazon	27314-13-2	3500 N	33000 N	70000 N	99 N	770 N					
Octabromodiphenyl Ether	32536-52-0	270 N	2500 N	5200 N	240 N	60 N					
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	2691-41-0	5500 N	57000 N	97000 N	25 N	1000 N					
Octamethylpyrophosphoramidate	152-16-9	180 N	1600 N	3400 N	0.19 N	40 N					
Octyl Phthalate, di-N-	117-84-0	880 N	8200 N	18000 N	1100 N	200 N					
Oryzalin	19044-88-3	4500 N	41000 N	87000 N	30 N	810 N					
Oxadiazon	19666-30-9	450 N	4100 N	8700 N	9.6 N	47 N					
Oxamyl	23135-22-0	2200 N	21000 N	43000 N	0.88 M	200 M					
Oxyfluorfen	42874-03-3	270 N	2500 N	5200 N	51 N	32 N					
Paclbutrazol	76738-62-0	1100 N	11000 N	22000 N	9.4 N	230 N					
Paraquat Dichloride	1910-42-5	390 N	3700 N	7900 N	25 N	90 N					
Parathion	56-38-2	530 N	4900 N	10000 N	8.7 N	86 N					
PCBs: Aroclor 1016	12674-11-2	5.7 N	51 N	120 N	2.7 N	1.4 N			1.4 C	6.1 C	
PCBs: Aroclor 1221	11104-28-2	2.8 C	8.3 C	520 C	0.016 C	0.047 C			0.049 C	0.21 C	
PCBs: Aroclor 1232	11141-16-5	2.4 C	7.2 C	490 C	0.016 C	0.047 C			0.049 C	0.21 C	
PCBs: Aroclor 1242	53469-21-9	3.2 C	9.5 C	560 C	0.24 C	0.078 C			0.049 C	0.21 C	
PCBs: Aroclor 1248	12672-29-6	3.2 C	9.5 C	560 C	0.24 C	0.078 C			0.049 C	0.21 C	
PCBs: Aroclor 1254	11097-69-1	1.7 N	9.7 C	33 N	0.41 C	0.078 C			0.049 C	0.21 C	
PCBs: Aroclor 1260	11096-82-5	3.4 C	9.9 C	570 C	1.1 C	0.078 C			0.049 C	0.21 C	
PCBs: Aroclor 5460	11126-42-4	49 N	440 N	1000 N	39 N	12 N					
PCBs: Heptachlorobiphenyl, 2,3,3',4,4',5,5'- (PCB 189)	39635-31-9	1.8 C	5.2 C	39 N	0.56 C	0.04 C			0.025 C	0.11 C	
PCBs: Hexachlorobiphenyl, 2,3,3',4,4',5'- (PCB 156)	38380-08-4	1.7 C	5.1 C	39 N	0.34 C	0.04 C			0.025 C	0.11 C	

Appendix A: Screening Levels

Table A-6: IDEM OLQ 2016 Screening Levels

Chemical		Soil Exposure			Ground Water		Vapor Exposure				
		Direct Contact			Soil MTG	Tap	Ground Water		Indoor Air		
		Residential	Com/Ind	Excavation	Residential	Residential	Residential	Com/Ind	Residential	Com/Ind	
Name	CASRN	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/m3)	(ug/m3)
PCBs: Hexachlorobiphenyl, 2,3,3',4,4',5'- (PCB 157)	69782-90-7	1.7 C	5.1 C	39 N	0.34 C	0.04 C				0.025 C	0.11 C
PCBs: Hexachlorobiphenyl, 2,3',4,4',5,5'- (PCB 167)	52663-72-6	1.7 C	5.2 C	39 N	0.34 C	0.04 C				0.025 C	0.11 C
PCBs: Hexachlorobiphenyl, 3,3',4,4',5,5'- (PCB 169)	32774-16-6	0.0017 C	0.0052 C	0.039 N	0.00034 C	0.00004 C				0.000025 C	0.00011 C
PCBs: Pentachlorobiphenyl, 2,3,3',4,4'- (PCB 105)	32598-14-4	1.7 C	5 C	39 N	0.21 C	0.04 C				0.025 C	0.11 C
PCBs: Pentachlorobiphenyl, 2,3,4,4',5- (PCB 114)	74472-37-0	1.7 C	5.1 C	39 N	0.21 C	0.04 C				0.025 C	0.11 C
PCBs: Pentachlorobiphenyl, 2,3',4,4',5- (PCB 118)	31508-00-6	1.7 C	5 C	39 N	0.2 C	0.04 C				0.025 C	0.11 C
PCBs: Pentachlorobiphenyl, 2',3,4,4',5- (PCB 123)	65510-44-3	1.7 C	5 C	39 N	0.21 C	0.04 C				0.025 C	0.11 C
PCBs: Pentachlorobiphenyl, 3,3',4,4',5- (PCB 126)	57465-28-8	0.00052 C	0.0015 C	0.012 N	0.000061 C	0.000012 C				0.0000074 C	0.000032 C
PCBs: Polychlorinated Biphenyls (high risk)	1336-36-3	3.2 C	9.4 C	550 C						0.049 C	0.21 C
PCBs: Polychlorinated Biphenyls (low risk)	1336-36-3				1.6 M	0.5 M				0.28 C	1.2 C
PCBs: Polychlorinated Biphenyls (lowest risk)	1336-36-3									1.4 C	6.1 C
PCBs: Tetrachlorobiphenyl, 3,3',4,4'- (PCB 77)	32598-13-3	0.53 C	1.6 C	12 N	0.19 C	0.06 C				0.0074 C	0.032 C
PCBs: Tetrachlorobiphenyl, 3,4,4',5- (PCB 81)	70362-50-4	0.17 C	0.49 C	3.9 N	0.013 C	0.004 C				0.0025 C	0.011 C
Pebulate	1114-71-2	5500 N	58000 N	98000 N	8.9 N	560 N					
Pendimethalin	40487-42-1	3500 N	33000 N	70000 N	41 N	180 N					
Pentabromodiphenyl Ether	32534-81-9	0.31 S	0.31 S	0.31 S	35 N	40 N					
Pentabromodiphenyl ether, 2,2',4,4',5- (BDE-99)	60348-60-9	8.8 N	82 N	180 N	1.7 N	2 N					
Pentachlorobenzene	608-93-5	88 N	930 N	1600 N	0.49 N	3.2 N					
Pentachloroethane	76-01-7	110 C	360 C	460 S	0.062 C	6.5 C					
Pentachloronitrobenzene	82-68-8	38 C	130 C	5500 C	0.29 C	1.2 C					
Pentachlorophenol	87-86-5	14 C	40 C	2600 C	0.2 M	1 M				5.5 C	24 C
Pentaerythritol tetranitrate (PETN)	78-11-5	180 N	1600 N	3400 N	1.2 N	39 N					
Pentane, n-	109-66-0	390 S	390 S	390 S	200 N	2100 N				1000 N	4400 N
Perchlorate and Perchlorate Salts	14797-73-0	77 N	820 N	1400 N		15 M					
Perfluorobutane Sulfonate	375-73-5	2200 N	23000 N	39000 N	4.2 N	380 N					
Permethrin	52645-53-1	4500 N	41000 N	87000 N	4800 N	1000 N					
Phenacetin	62-44-2	3500 C	10000 C	100000 L	1.9 C	340 C				45 C	190 C
Phenmedipham	13684-63-4	22000 N	100000 L	100000 L	430 N	4000 N					
Phenol	108-95-2	27000 N	100000 L	100000 L	67 N	5800 N				210 N	880 N
Phenothiazine	92-84-2	45 N	410 N	870 N	0.27 N	4.3 N					
Phenylenediamine, m-	108-45-2	530 N	4900 N	10000 N	0.64 N	120 N					

Table A-6: IDEM OLQ 2016 Screening Levels

Chemical		Soil Exposure			Ground Water		Vapor Exposure			
		Direct Contact			Soil MTG	Tap	Ground Water		Indoor Air	
		Residential	Com/Ind	Excavation	Residential	Residential	Residential	Com/Ind	Residential	Com/Ind
Name	CASRN	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(ug/L)	(ug/L)	(ug/L)	(ug/m3)	(ug/m3)
Phenylenediamine, o-	95-54-5	170 C	490 C	26000 C	0.086 C	16 C				
Phenylenediamine, p-	106-50-3	17000 N	100000 L	100000 L	20 N	3800 N				
Phenylmercuric Acetate	62-38-4	7.1 N	66 N	140 N	0.01 N	1.6 N				
Phenylphenol, 2-	90-43-7	3900 C	12000 C	100000 L	82 C	300 C				
Phorate	298-02-2	18 N	160 N	340 N	0.067 N	3 N				
Phosgene	75-44-5	0.43 N	1.3 N	7.2 N					0.31 N	1.3 N
Phosmet	732-11-6	1800 N	16000 N	34000 N	1.6 N	370 N				
Phosphine	7803-51-2	32 N	350 N	590 N		0.57 N			0.31 N	1.3 N
Phosphoric Acid	7664-38-2	100000 L	100000 L	100000 L		970000 N			10 N	44 N
Phosphorus, White	7723-14-0	2.2 N	23 N	39 N	0.03 N	0.4 N				
Phthalic Acid, P-	100-21-0	88000 N	100000 L	100000 L	140 N	19000 N				
Phthalic Anhydride	85-44-9	100000 L	100000 L	100000 L	170 N	39000 N			21 N	88 N
Picloram	1918-02-1	6200 N	57000 N	100000 L	2.8 M	500 M				
Picramic Acid (2-Amino-4,6-dinitrophenol)	96-91-3	8.8 N	82 N	180 N	0.026 N	2 N				
Picric Acid (2,4,6-Trinitrophenol)	88-89-1	80 N	740 N	1600 N	1.7 N	18 N				
Pirimiphos, Methyl	29232-93-7	880 N	8200 N	18000 N	2.3 N	120 N				
Polybrominated Biphenyls	59536-65-1	0.25 C	0.77 C	12 N		0.026 C			0.0033 C	0.014 C
Polymeric Methylene Diphenyl Diisocyanate (PMDI)	9016-87-9	100000 L	100000 L	100000 L					0.63 N	2.6 N
Polyphosphoric acid	8017-16-1	100000 L	100000 L	100000 L		970000 N				
Potassium Cyanide	151-50-8	220 N	2300 N	3900 N		40 N				
Potassium Perchlorate	7778-74-7	77 N	820 N	1400 N		14 N				
Potassium Perfluorobutane Sulfonate	29420-49-3	1800 N	16000 N	34000 N		400 N				
Potassium Silver Cyanide	506-61-6	550 N	5800 N	9800 N		82 N				
Potassium tripolyphosphate	13845-36-8	100000 L	100000 L	100000 L		970000 N				
Prochloraz	67747-09-5	50 C	150 C	8200 C	0.38 C	3.8 C				
Profluralin	26399-36-0	660 N	7000 N	12000 N	32 N	26 N				
Prometon	1610-18-0	1300 N	12000 N	27000 N	2.4 N	250 N				
Prometryn	7287-19-6	350 N	3300 N	7000 N	1.8 N	60 N				
Propachlor	1918-16-7	1100 N	11000 N	22000 N	3 N	250 N				
Propanediol, 1,2-	114-26-1	350 N	3300 N	7000 N	0.5 N	78 N				
Propanil	709-98-8	450 N	4100 N	8700 N	0.9 N	82 N				

Appendix A: Screening Levels

Table A-6: IDEM OLQ 2016 Screening Levels

Chemical		Soil Exposure			Ground Water		Vapor Exposure				
		Direct Contact			Soil MTG	Tap	Ground Water		Indoor Air		
		Residential	Com/Ind	Excavation	Residential	Residential	Residential	Com/Ind	Residential	Com/Ind	
Name	CASRN	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/m3)	(ug/m3)
Propargite	2312-35-8	1800 N	16000 N	34000 N	240 N	160 N					
Propargyl Alcohol	107-19-7	220 N	2300 N	3900 N	0.16 N	40 N					
Propazine	139-40-2	1800 N	16000 N	34000 N	6 N	340 N					
Propham	122-42-9	1800 N	16000 N	34000 N	4.5 N	350 N					
Propiconazole	60207-90-1	1100 N	11000 N	22000 N	14 N	210 N					
Propionaldehyde	123-38-6	110 N	310 N	1700 N	0.069 N	17 N			8.3 N	35 N	
Propyl benzene	103-65-1	260 S	260 S	260 S	25 N	660 N			1000 N	4400 N	
Propylene	115-07-1	350 S	350 S	350 S	120 N	6300 N			3100 N	13000 N	
Propylene Glycol	57-55-6	100000 L	100000 L	100000 L	1600 N	400000 N					
Propylene Glycol Dinitrate	6423-43-4	100000 L	100000 L	100000 L					0.28 N	1.2 N	
Propylene Glycol Monomethyl Ether	107-98-2	57000 N	100000 L	100000 L	13 N	3200 N			2100 N	8800 N	
Propylene Oxide	75-56-9	29 C	97 C	5200 C	0.011 C	2.7 C			7.6 C	33 C	
Propyzamide	23950-58-5	6600 N	62000 N	100000 L	24 N	1200 N					
Pyrene	129-00-0	2500 N	23000 N	51000 N	260 N	120 N					
Pyridine	110-86-1	110 N	1200 N	2000 N	0.14 N	20 N					
Quinalphos	13593-03-8	45 N	410 N	870 N	0.87 N	5.1 N					
Quinoline	91-22-5	2.5 C	7.7 C	410 C	0.016 C	0.24 C					
Quizalofop-ethyl	76578-14-8	800 N	7400 N	16000 N	38 N	120 N					
Refractory Ceramic Fibers	NA	100000 L	100000 L	100000 L					31 N	130 N	
Resmethrin	10453-86-8	2700 N	25000 N	52000 N	830 N	67 N					
Ronnel	299-84-3	5500 N	58000 N	98000 N	75 N	410 N					
Rotenone	83-79-4	350 N	3300 N	7000 N	640 N	61 N					
Safrole	94-59-7	7.7 C	100 C	5600 C	0.012 C	0.96 C			0.16 C	1.9 C	
Selenious Acid	7783-00-8	550 N	5800 N	9800 N		100 N					
Selenium	7782-49-2	550 N	5800 N	9800 N	5.3 M	50 M			21 N	88 N	
Selenium Sulfide	7446-34-6	550 N	5800 N	9800 N		100 N			21 N	88 N	
Sethoxydim	74051-80-2	8000 N	74000 N	100000 L	180 N	1000 N					
Silica (crystalline, respirable)	7631-86-9	100000 L	100000 L	100000 L					3.1 N	13 N	
Silver	7440-22-4	550 N	5800 N	9800 N	16 N	94 N					
Silver Cyanide	506-64-9	11000 N	100000 L	100000 L		1800 N					
Simazine	122-34-9	63 C	190 C	8700 N	0.039 M	4 M					

Table A-6: IDEM OLQ 2016 Screening Levels

Chemical		Soil Exposure			Ground Water		Vapor Exposure				
		Direct Contact			Soil MTG	Tap	Ground Water		Indoor Air		
		Residential	Com/Ind	Excavation	Residential	Residential	Residential	Com/Ind	Residential	Com/Ind	
Name	CASRN	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/m3)	(ug/m3)
Sodium acid pyrophosphate	7758-16-9	100000 L	100000 L	100000 L		970000 N					
Sodium Acifluorfen	62476-59-9	1100 N	11000 N	22000 N	41 N	260 N					
Sodium aluminum phosphate (acidic)	7785-88-8	100000 L	100000 L	100000 L		970000 N					
Sodium aluminum phosphate (anhydrous)	10279-59-1	100000 L	100000 L	100000 L		970000 N					
Sodium aluminum phosphate (tetrahydrate)	10305-76-7	100000 L	100000 L	100000 L		970000 N					
Sodium Azide	26628-22-8	430 N	4700 N	7900 N		80 N					
Sodium Cyanide	143-33-9	110 N	1200 N	2000 N		200 M					
Sodium Dichromate	10588-01-9	4.2 C	62 C	2700 C		0.41 C			0.000068 C	0.00082 C	
Sodium Diethyldithiocarbamate	148-18-5	28 C	85 C	4500 C		2.9 C					
Sodium Fluoride	7681-49-4	5500 N	58000 N	98000 N		1000 N			14 N	57 N	
Sodium Fluoroacetate	62-74-8	1.8 N	16 N	34 N	0.0016 N	0.4 N					
Sodium hexametaphosphate	10124-56-8	100000 L	100000 L	100000 L		970000 N					
Sodium Metavanadate	13718-26-8	110 N	1200 N	2000 N		20 N					
Sodium Perchlorate	7601-89-0	77 N	820 N	1400 N		14 N					
Sodium polyphosphate	68915-31-1	100000 L	100000 L	100000 L		970000 N					
Sodium trimetaphosphate	7785-84-4	100000 L	100000 L	100000 L		970000 N					
Sodium tripolyphosphate	7758-29-4	100000 L	100000 L	100000 L		970000 N					
Sodium Tungstate	13472-45-2	88 N	930 N	1600 N		16 N					
Sodium Tungstate Dihydrate	10213-10-2	88 N	930 N	1600 N		16 N					
Stirofos (Tetrachlorovinphos)	961-11-5	320 C	960 C	52000 C	1.7 C	28 C					
Strontium Chromate	7789-06-2	4.2 C	62 C	2700 C		0.41 C			0.000068 C	0.00082 C	
Strontium, Stable	7440-24-6	66000 N	100000 L	100000 L	8500 N	12000 N					
Strychnine	57-24-9	27 N	250 N	520 N	1.3 N	5.9 N					
Styrene	100-42-5	870 S	870 S	870 S	2.2 M	100 M			1000 N	4400 N	
Styrene-Acrylonitrile (SAN) Trimer	NA	270 N	2500 N	5200 N		48 N					
Sulfolane	126-33-0	88 N	820 N	1800 N	0.087 N	20 N			2.1 N	8.8 N	
Sulfonylbis(4-chlorobenzene), 1,1'-	80-07-9	71 N	660 N	1400 N	1.3 N	11 N					
Sulfur Trioxide	7446-11-9	100000 L	100000 L	100000 L		2.1 N			1 N	4.4 N	
Sulfuric Acid	7664-93-9	100000 L	100000 L	100000 L					1 N	4.4 N	
Sulfurous acid, 2-chloroethyl 2-[4-(1,1-dimethylethyl)phenoxy]-1-methylethyl ester	140-57-8	310 C	920 C	49000 C	2.9 C	13 C			4 C	17 C	
TCMTB	21564-17-0	2700 N	25000 N	52000 N	67 N	480 N					

Appendix A: Screening Levels

Table A-6: IDEM OLQ 2016 Screening Levels

Chemical		Soil Exposure			Ground Water		Vapor Exposure				
		Direct Contact			Soil MTG	Tap	Ground Water		Indoor Air		
		Residential	Com/Ind	Excavation	Residential	Residential	Residential	Com/Ind	Residential	Com/Ind	
Name	CASRN	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/m3)	(ug/m3)
Tebuthiuron	34014-18-1	6200 N	57000 N	100000 L	8 N	1400 N					
Temephos	3383-96-8	1800 N	16000 N	34000 N	1500 N	400 N					
Terbacil	5902-51-2	1100 N	11000 N	22000 N	1.5 N	250 N					
Terbufos	13071-79-9	2.8 N	29 N	31 S	0.011 N	0.24 N					
Terbutryn	886-50-0	88 N	820 N	1800 N	0.37 N	13 N					
Tetrabromodiphenyl ether, 2,2',4,4'- (BDE-47)	5436-43-1	8.8 N	82 N	180 N	1.1 N	2 N					
Tetrachlorobenzene, 1,2,4,5-	95-94-3	32 N	350 N	590 N	0.16 N	1.7 N					
Tetrachloroethane, 1,1,1,2-	630-20-6	28 C	88 C	680 S	0.043 C	5.7 C			3.8 C	17 C	
Tetrachloroethane, 1,1,2,2-	79-34-5	8.4 C	27 C	1900 S	0.0059 C	0.76 C	72 C	310 C	0.48 C	2.1 C	
Tetrachloroethylene	127-18-4	110 N	170 S	170 S	0.045 M	5 M	110 N	470 N	42 N	180 N	
Tetrachlorophenol, 2,3,4,6-	58-90-2	2700 N	25000 N	52000 N	29 N	240 N					
Tetrachlorotoluene, p- alpha, alpha, alpha-	5216-25-1	0.49 C	1.6 C	67 C	0.00089 C	0.013 C					
Tetraethyl Dithiopyrophosphate	3689-24-5	45 N	410 N	870 N	0.1 N	7.1 N					
Tetraethyl Lead	78-00-2	0.011 N	0.12 N	0.2 N	0.000091 N	0.0013 N					
Tetrafluoroethane, 1,1,1,2-	811-97-2	2100 S	2100 S	2100 S	1900 N	170000 N			83000 N	350000 N	
Tetrahydrofuran	109-99-9	25000 N	96000 N	100000 L	15 N	3400 N			2100 N	8800 N	
Tetrapotassium phosphate	7320-34-5	100000 L	100000 L	100000 L		970000 N					
Tetrasodium pyrophosphate	7722-88-5	100000 L	100000 L	100000 L		970000 N					
Tetryl (Trinitrophenylmethylnitramine)	479-45-8	220 N	2300 N	3900 N	7.3 N	39 N					
Thallium (I) Nitrate	10102-45-1	0.77 N	8.2 N	14 N		0.14 N					
Thallium (Soluble Salts)	7440-28-0	1.1 N	12 N	20 N	2.9 M	2 M					
Thallium Acetate	563-68-8	0.66 N	7 N	12 N		0.12 N					
Thallium Carbonate	6533-73-9	2.2 N	23 N	39 N		0.4 N					
Thallium Chloride	7791-12-0	0.66 N	7 N	12 N		0.12 N					
Thallium Sulfate	7446-18-6	2.2 N	23 N	39 N		0.4 N					
Thifensulfuron-methyl	79277-27-3	1100 N	11000 N	22000 N	1.6 N	260 N					
Thiobencarb	28249-77-6	880 N	8200 N	18000 N	11 N	160 N					
Thiocyanates	NA	22 N	230 N	390 N		4 N					
Thiocyanic Acid	463-56-9	22 N	230 N	390 N		4 N					
Thiodiglycol	111-48-8	7600 N	79000 N	100000 L	5.7 N	1400 N					
Thiofanox	39196-18-4	27 N	250 N	520 N	0.037 N	5.3 N					

Table A-6: IDEM OLQ 2016 Screening Levels

Chemical		Soil Exposure			Ground Water		Vapor Exposure				
		Direct Contact			Soil MTG	Tap	Ground Water		Indoor Air		
		Residential	Com/Ind	Excavation	Residential	Residential	Residential	Com/Ind	Residential	Com/Ind	
Name	CASRN	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/m3)	(ug/m3)
Thiophanate, Methyl	23564-05-8	7100 N	66000 N	100000 L	27 N	1600 N					
Thiram	137-26-8	450 N	4100 N	8700 N	2.8 N	98 N					
Tin	7440-31-5	66000 N	100000 L	100000 L	60000 N	12000 N					
Titanium Tetrachloride	7550-45-0	100000 L	100000 L	100000 L		0.21 N			0.1 N	0.44 N	
Toluene	108-88-3	820 S	820 S	820 S	14 M	1000 M			5200 N	22000 N	
Toluene-2,5-diamine	95-70-5	18 N	130 C	340 N	0.025 N	4 N					
Toluidine, p-	106-49-0	250 C	770 C	7000 N	0.21 C	25 C					
Toxaphene	8001-35-2	6.9 C	21 C	1100 C	9.3 M	3 M			0.088 C	0.38 C	
Tralomethrin	66841-25-6	660 N	6200 N	13000 N	1100 N	150 N					
Triacetin	102-76-1	100000 L	100000 L	100000 L	9000 N	1600000 N					
Triadimefon	43121-43-3	2700 N	25000 N	52000 N	8.8 N	550 N					
Triallate	2303-17-5	1400 N	15000 N	25000 N	5.3 N	120 N					
Trialuminum sodium tetra decahydrogenoctaorthophosphate (dihydrate)	15136-87-5	100000 L	100000 L	100000 L		970000 N					
Triasulfuron	82097-50-5	880 N	8200 N	18000 N	4.2 N	200 N					
Tribenuron-methyl	101200-48-0	710 N	6600 N	14000 N	1.2 N	160 N					
Tribromobenzene, 1,2,4-	615-54-3	550 N	5800 N	9800 N	1.3 N	45 N					
Tributyl Phosphate	126-73-8	840 C	2600 C	18000 N	5.1 C	52 C					
Tributyltin Compounds	NA	27 N	250 N	520 N		6 N					
Tributyltin Oxide	56-35-9	27 N	250 N	520 N	5900 N	5.7 N					
Tricalcium phosphate	7758-87-4	100000 L	100000 L	100000 L		970000 N					
Trichloro-1,2,2-trifluoroethane, 1,1,2-	76-13-1	910 S	910 S	910 S	2700 N	55000 N			31000 N	130000 N	
Trichloroacetic Acid	76-03-9	110 C	330 C	18000 C	0.25 M	60 M					
Trichloroaniline HCl, 2,4,6-	33663-50-2	270 C	790 C	41000 C	1.5 C	27 C					
Trichloroaniline, 2,4,6-	634-93-5	2.7 N	25 N	52 N	0.073 N	0.4 N					
Trichlorobenzene, 1,2,3-	87-61-6	88 N	930 N	1600 N	0.42 N	7 N					
Trichlorobenzene, 1,2,4-	120-82-1	81 N	260 N	400 S	4.1 M	70 M			2.1 N	8.8 N	
Trichloroethane, 1,1,1-	71-55-6	640 S	640 S	640 S	1.4 M	200 M	13000 N	54000 N	5200 N	22000 N	
Trichloroethane, 1,1,2-	79-00-5	2.1 N	6.3 N	35 N	0.032 M	5 M	11 N	46 N	0.21 N	0.88 N	
Trichloroethylene	79-01-6	5.7 N	19 N	95 N	0.036 M	5 M	9.1 N	38 N	2.1 N	8.8 N	
Trichlorofluoromethane	75-69-4	1200 S	1200 S	1200 S	66 N	5200 N					
Trichlorophenol, 2,4,5-	95-95-4	8800 N	82000 N	100000 L	90 N	1200 N					

Appendix A: Screening Levels

Table A-6: IDEM OLQ 2016 Screening Levels

Chemical		Soil Exposure			Ground Water		Vapor Exposure			
		Direct Contact			Soil MTG	Tap	Ground Water		Indoor Air	
		Residential	Com/Ind	Excavation	Residential	Residential	Residential	Com/Ind	Residential	Com/Ind
Name	CASRN	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(ug/L)	(ug/L)	(ug/L)	(ug/m3)	(ug/m3)
Trichlorophenol, 2,4,6-	88-06-2	88 N	820 N	1800 N	0.9 N	12 N			9.1 C	40 C
Trichlorophenoxyacetic Acid, 2,4,5-	93-76-5	880 N	8200 N	18000 N	1.3 N	160 N				
Trichlorophenoxypropionic acid, -2,4,5	93-72-1	710 N	6600 N	14000 N	0.55 M	50 M				
Trichloropropane, 1,1,2-	598-77-6	550 N	1300 S	1300 S	0.69 N	88 N				
Trichloropropane, 1,2,3-	96-18-4	0.071 C	1.1 C	46 C	0.000065 C	0.0075 C			0.31 N	1.3 N
Trichloropropene, 1,2,3-	96-19-5	1 N	3.1 N	17 N	0.0061 N	0.62 N			0.31 N	1.3 N
Tricresyl Phosphate (TCP)	1330-78-5	1800 N	16000 N	34000 N	300 N	160 N				
Tridiphane	58138-08-2	270 N	2500 N	5200 N	2.6 N	18 N				
Triethylamine	121-44-8	170 N	480 N	2700 N	0.091 N	15 N			7.3 N	31 N
Triethylene Glycol	112-27-6	100000 L	100000 L	100000 L	180 N	40000 N				
Trifluoroethane, 1,1,1-	420-46-2	4800 S	4800 S	4800 S	2500 N	42000 N			21000 N	88000 N
Trifluralin	1582-09-8	830 N	4200 C	15000 N	17 C	26 C				
Trimagnesium phosphate	7757-87-1	100000 L	100000 L	100000 L		970000 N				
Trimethyl Phosphate	512-56-1	380 C	1100 C	18000 N	0.17 C	39 C				
Trimethylbenzene, 1,2,3-	526-73-8	69 N	210 N	290 S	0.29 N	10 N			5.2 N	22 N
Trimethylbenzene, 1,2,4-	95-63-6	81 N	220 S	220 S	0.44 N	15 N			7.3 N	31 N
Trimethylbenzene, 1,3,5-	108-67-8	180 S	180 S	180 S	3.4 N	120 N				
Trimethylpentene, 2,4,4-	25167-70-8	30 S	30 S	30 S	4.3 N	65 N				
Tri-n-butyltin	688-73-3	32 N	350 N	590 N	1.6 N	3.7 N				
Trinitrobenzene, 1,3,5-	99-35-4	3100 N	32000 N	58000 N	42 N	590 N				
Trinitrotoluene, 2,4,6-	118-96-7	50 N	510 N	940 N	1.1 N	9.8 N				
Triphenylphosphine Oxide	791-28-6	1800 N	16000 N	34000 N	30 N	360 N				
Tripotassium phosphate	7778-53-2	100000 L	100000 L	100000 L		970000 N				
Tris(1,3-Dichloro-2-propyl) Phosphate	13674-87-8	1800 N	16000 N	34000 N	160 N	360 N				
Tris(1-chloro-2-propyl)phosphate	13674-84-5	880 N	8200 N	18000 N	13 N	190 N				
Tris(2,3-dibromopropyl)phosphate	126-72-7	3.9 C	13 C	470 S	0.027 C	0.068 C			0.043 C	0.19 C
Tris(2-chloroethyl)phosphate	115-96-8	380 C	1100 C	12000 N	0.74 C	38 C				
Tris(2-ethylhexyl)phosphate	78-42-2	2400 C	7200 C	100000 L	24000 C	240 C				
Trisodium phosphate	7601-54-9	100000 L	100000 L	100000 L		970000 N				
Tungsten	7440-33-7	88 N	930 N	1600 N		16 N				
Uranium (Soluble Salts)	NA	320 N	3500 N	5900 N	270 M	30 M			0.042 N	0.18 N

Table A-6: IDEM OLQ 2016 Screening Levels

Chemical		Soil Exposure			Ground Water		Vapor Exposure				
		Direct Contact			Soil MTG	Tap	Ground Water		Indoor Air		
		Residential	Com/Ind	Excavation	Residential	Residential	Residential	Com/Ind	Residential	Com/Ind	
Name	CASRN	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/m3)	(ug/m3)
Urethane	51-79-6	1.7 C	23 C	1200 C	0.0011 C	0.25 C				0.035 C	0.42 C
Vanadium and Compounds	7440-62-2	550 N	5800 N	9900 N	1700 N	86 N				0.1 N	0.44 N
Vanadium Pentoxide	1314-62-1	920 N	8400 N	17000 N		150 N				0.0034 C	0.015 C
Vernolate	1929-77-7	110 N	1200 N	2000 N	0.18 N	11 N					
Vinclozolin	50471-44-8	2200 N	21000 N	43000 N	6.8 N	440 N					
Vinyl Acetate	108-05-4	1300 N	2800 S	2800 S	1.7 N	410 N				210 N	880 N
Vinyl Bromide	593-60-2	1.7 C	5.2 C	100 N	0.01 C	1.8 C				0.88 C	3.8 C
Vinyl Chloride	75-01-4	0.83 C	17 C	1300 C	0.014 M	2 M	2.1 C	35 C		1.7 C	28 C
Warfarin	81-81-2	27 N	250 N	520 N	0.12 N	5.6 N					
Xylene, m-	108-38-3	390 S	390 S	390 S	3.7 N	190 N				100 N	440 N
Xylene, o-	95-47-6	430 S	430 S	430 S	3.7 N	190 N				100 N	440 N
Xylene, P-	106-42-3	390 S	390 S	390 S	3.7 N	190 N				100 N	440 N
Xylenes	1330-20-7	260 S	260 S	260 S	200 M	10000 M				100 N	440 N
Zinc and Compounds	7440-66-6	32000 N	100000 L	100000 L	7500 N	6000 N					
Zinc Cyanide	557-21-1	5500 N	58000 N	98000 N		1000 N					
Zinc Phosphide	1314-84-7	32 N	350 N	590 N		6 N					
Zineb	12122-67-7	4500 N	41000 N	87000 N	57 N	990 N					
Zirconium	7440-67-7	8.8 N	93 N	160 N	96 N	1.6 N					

C = Carcinogenic endpoint

CASRN = Chemical Abstracts Service Reference Number

L = Capped at 100,000 mg/kg (soil direct contact only)

M = Set to maximum contaminant limit (MCL; ground water only) or based on MCL (migration to ground water)

mg/kg = milligrams per kilogram

MTG = Migration to ground water

N = Noncarcinogenic endpoint

R = Capped at 1,000,000 mg/kg (migration to ground water only)

S = Capped at soil saturation limit

ug/L = micrograms per liter

ug/m³ = micrograms per cubic meter

Table A-7: Recreational Soil Direct Contact Screening Levels – March 2016

Chemical		Trail (mg/kg)	Athletic Field (mg/kg)	Community Park (mg/kg)
Name	CASRN			
Arsenic, Inorganic	7440-38-2	410	130	45
Benzene	71-43-2	1600	1200	470
Benzo(a)pyrene	50-32-8	7.2	3.1	0.98
Ethylbenzene	100-41-4	480*	480*	480*
Lead and Compounds	7439-92-1	800	800	800
Toluene	108-88-3	820*	820*	820*
Xylenes	1330-20-7	260*	260*	260*

*Soil saturation limit