UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, CA 94105

N00221_001278
MARE ISLAND
SSIC NO. 5090.3.A

September 22, 2008

Mr. Michael Bloom
Dept of the Navy
Base Realignment and Closure
Program Management Office
1455 Frazee Road, Suite 900
San Diego, CA 92108-4301

RE: Draft Sampling And Analysis Plan for Additional Soil, Groundwater and Soil Gas Sampling at Installation Restoration Site 17 and Building 503 Area, Mare Island, Vallejo, California, September 18, 2007 ; Draft Subsurface Vapor Intrusion Methodology Letter Report for Proposed Active Soil Gas Sampling at IR 17 and Building 503, dated September 12, 2008

Dear Mr Bloom:

EPA has reviewed the Draft Field Sampling Plan IR 17. We have just a few comments.

Comment on Sampling and Analysis Plan (Sept 18, 2008)

1. Considering that the main purpose of this second round of soil gas sampling is to collect data for risk assessment it is more important that areas of maximum concentrations be evaluated than quantifying concentrations at the previous grid nodes. Please revise figure 5 to relocate grid node sampling locations near hot spots to the inferred center of hot spots to ensure maximum concentrations present at the site are assessed. This was discussed at the September 11, 2008 meeting but does not appear to have been incorporated into figure 5 of the September 18 SAP.

Comments on Methodology Letter Report

1. Regarding the first set of risk calculations (detailed on the bottom half of p. 3): Toxicity values for these risk calculations should preferentially be obtained from the new table of Regional Screening Levels, a copy of which is enclosed. If a toxicity value is not listed in the RSL table, the OSWER hierarchy (2003) should be followed, with preference given to Cal/EPA OEHHA values. The most current guidance on regional Screening Levels is available at http://epa-prgs.ornl.gov/chemicals/guide.shtml.

2. There is a typo in Table 1. The "Enclosed space floor thickness" value under "Hypothetical Future Industrial Building" should be 15 cm to be consistent with the 6 inch building foundation thickness noted under "Basis".

Thank you for the opportunity to review this report. If you have any questions, please contact me at (415) 972-3150.

Sincerely,

Carolyn d'Almeida
Remedial Project Manager

cc: Chip Gribble, DTSC
Paisha Jorgensen, RWQCB

Enclosure

Key: I = IRIS; P = PPRTV; A = ATSDR; C = Cal EPA; H = HEAST; W = WHO; S = see user guide Section 5; L = see user guide on lead; M = mutagen; V= volatile; ca = cancer; ca* = where: nc SL < 100X ca SL; ca** = where nc SL < 10X ca SL; nc = noncancer; max=Concentration may exceed ceiling limit (See User's Guide); sat=Concentration may exceed Csat (See User's Guide); SSL values are based on DAF=1

Contaminant		Toxicity and Chemical-specific Information													Screening Levels										Protection of Groundwater Soil Screening Levels	
Analyte	CAS No.	SFO (mg/kg-day)$^{-1}$	key	IUR (ug/m^3)$^{-1}$	key	RfDo (mg/kg-day)	key	RfCi (mg/m^3)	key	volc	muta-gen	RAGS Part E GIABS	RAGS Part E ABS	Csat mg/kg	Residential Soil mg/kg	key	Industrial Soil mg/kg	key	Residential Air ug/m^3	key	Industrial Air ug/m^3	key	Tapwater ug/L	key	MCL ug/L	Risk-based SSL mg/kg	MCL-based SSL mg/kg
Acephate	30560-19-1	8.7E-03	I			4.0E-03	I					1	0.1		5.6E+01	ca**	2.0E+02	ca*					7.7E+00	ca*		1.9E-03	
Acetaldehyde	75-07-0			2.2E-06	I			9.0E-03	I	V		1		1.1E+05	1.1E+01	ca**	5.3E+01	ca**	1.1E+00	ca**	5.6E+00	ca**	2.2E+00	ca**		4.5E-04	
Acetochlor	34256-82-1					2.0E-02	I					1	0.1		1.2E+03	nc	1.2E+04	nc					7.3E+02	nc		4.0E-01	
Acetone	67-64-1					9.0E-01	I	3.1E+01	A	V		1		1.1E+05	6.1E+04	nc	6.1E+05	nc	3.2E+04	nc	1.4E+05	nc	2.2E+04	nc		4.4E+00	
Acetone Cyanohydrin	75-86-5					3.0E-03	P	6.0E-02	P	V		1		1.1E+05	2.0E+02	nc	2.1E+03	nc	6.3E+01	nc	2.6E+02	nc	5.8E+01	nc		1.2E-02	
Acetonitrile	75-05-8							6.0E-02	I	V		1		1.3E+05	8.7E+02	nc	3.7E+03	nc	6.3E+01	nc	2.6E+02	nc	1.3E+02	nc		2.6E-02	
Acetophenone	98-86-2					1.0E-01	I			V		1		2.3E+03	7.8E+03	sat	1.0E+05	nc					3.7E+03	nc		1.1E+00	
Acrolein	107-02-8					5.0E-04	I	2.0E-05	I	V		1		2.5E+04	1.6E-01	nc	6.8E-01	nc	2.1E-02	nc	8.8E-02	nc	4.2E-02	nc		8.6E-06	
Acrylamide	79-06-1	4.5E+00	I	1.3E-03	I	2.0E-04	I					1	0.1		1.1E-01	ca	3.8E-01	ca	1.9E-03	ca	9.4E-03	ca	1.5E-02	ca		3.3E-06	
Acrylic Acid	79-10-7					5.0E-01	I	1.0E-03	I			1	0.1		3.0E+04	nc	2.9E+05	nc	1.0E+00	nc	4.4E+00	nc	1.8E+04	nc		3.7E+00	
Acrylonitrile	107-13-1	5.4E-01	I	6.8E-05	I	1.0E-03	H	2.0E-03	I	V		1		1.1E+04	2.4E-01	ca*	1.2E+00	ca*	3.6E-02	ca*	1.8E-01	ca*	4.5E-02	ca*		9.9E-06	
Adiponitrile	111-69-3							6.0E-03	P			1	0.1		8.5E+06	nc	3.6E+07	nc	6.3E+00	nc	2.6E+01	nc					
Alachlor	15972-60-8	5.6E-02	C			1.0E-02	I					1	0.1		8.7E+00	ca*	3.1E+01	ca					1.2E+00	ca	2.0E+00	6.8E-04	1.1E-03
ALAR	1596-84-5					1.5E-01	I					1	0.1		9.2E+03	nc	9.2E+04	nc					5.5E+03	nc		1.2E+00	
Aldicarb	116-06-3					1.0E-03	I					1	0.1		6.1E+01	nc	6.2E+02	nc					3.7E+01	nc		9.7E-03	
Aldicarb Sulfone	1646-88-4					1.0E-03	I					1	0.1		6.1E+01	nc	6.2E+02	nc					3.7E+01	nc		8.0E-03	
Aldrin	309-00-2	1.7E+01	I	4.9E-03	I	3.0E-05	I					1	0.1		2.9E-02	ca*	1.0E-01	ca	5.0E-04	ca	2.5E-03	ca	4.0E-03	ca		8.4E-04	
Alfy	74223-64-6					2.5E-01	I					1	0.1		1.5E+04	nc	1.5E+05	nc					9.1E+03	nc		3.1E+00	
Allyl Alcohol	107-18-6					5.0E-03	I	3.0E-04	P			1	0.1		3.1E+02	nc	3.1E+03	nc	3.1E-01	nc	1.3E+00	nc	1.8E+02	nc		3.7E-02	
Allyl Chloride	107-05-1							1.0E-03	I	V		1		1.5E+03	1.8E+00	nc	7.7E+00	nc	1.0E+00	nc	4.4E+00	nc	2.1E+00	nc		6.8E-04	
Aluminum	7429-90-5					1.0E+00	P	5.0E-03	P			1			7.7E+04	nc	9.9E+05	nc	5.2E+00	nc	2.2E+01	nc	3.7E+04	nc			
Aluminum Phosphide	20859-73-8					4.0E-04	I					1			3.1E+01	nc	4.1E+02	nc					1.5E+01	nc			
Amdro	67485-29-4					3.0E-04	I					1	0.1		1.8E+01	nc	1.8E+02	nc					1.1E+01	nc		1.4E+04	
Ametryn	834-12-8					9.0E-03	I					1	0.1		5.5E+02	nc	5.5E+03	nc					3.3E+02	nc		3.6E-01	
Aminophenol, m-	591-27-5					8.0E-02	P					1	0.1		4.9E+03	nc	4.9E+04	nc					2.9E+03	nc		1.0E+00	
Aminophenol, p-	123-30-8					2.0E-02	P					1	0.1		1.2E+03	nc	1.2E+04	nc					7.3E+02	nc		2.5E-01	
Aminopyridine, 4-	504-24-5					2.0E-05	H					1	0.1		1.2E+00	nc	1.2E+01	nc					7.3E-01	nc		2.1E-04	
Amitraz	33089-61-1					2.5E-03	I					1	0.1		1.5E+02	nc	1.5E+03	nc					9.1E+01	nc		1.2E+02	
Ammonia	7664-41-7							H 1.0E-01	I			1			1.4E+08	nc	6.0E+08	nc	1.0E+02	nc	4.4E+02	nc					
Ammonium Perchlorate	7790-98-9					7.0E-04	I					1			5.5E+01	nc	7.2E+02	nc					2.6E+01	nc			
Ammonium Sulfamate	7773-06-0					2.0E-01	I					1			1.6E+04	nc	2.0E+05	nc					7.3E+03	nc			
Aniline	62-53-3	5.7E-03	I			7.0E-03	P	1.0E-03	I			1	0.1		8.5E+01	ca**	3.0E+02	ca*	1.0E+00	nc	4.4E+00	nc	1.2E+01	ca*		3.4E-03	
Antimony (metallic)	7440-36-0					4.0E-04	I					0.15			3.1E+01	nc	4.1E+02	nc					1.5E+01	nc	6.0E+00		
Antimony Pentoxide	1314-60-9					5.0E-04	H					0.15			3.9E+01	nc	5.1E+02	nc					1.8E+01	nc			
Antimony Potassium Tartrate	304-61-0					9.0E-04	H					0.15			7.0E+01	nc	9.2E+02	nc					3.3E+01	nc			
Antimony Tetroxide	1332-81-6					4.0E-04	H					0.15			3.1E+01	nc	4.1E+02	nc					1.5E+01	nc			
Antimony Trioxide	1309-64-4					4.0E-04	H	2.0E-04	I			0.15			3.1E+01	nc	4.1E+02	nc	2.1E-01	nc	8.8E-01	nc	1.5E+01	nc			
Apollo	74115-24-5					1.3E-02	I					1	0.1		7.9E+02	nc	8.0E+03	nc					4.7E+02	nc		6.1E+02	
Aramite	140-57-8	2.5E-02	I	7.1E-06	I	5.0E-02	H					1	0.1		1.9E+01	ca	6.9E+01	ca	3.4E-01	ca	1.7E+00	ca	2.7E+00	ca		1.1E-01	
Arsenic, Inorganic	7440-38-2	1.5E+00	I	4.3E-03	I	3.0E-04	I	3.0E-05	C			1	0.03		3.9E-01	ca*	1.6E+00	ca	5.7E-04	ca*	2.9E-03	ca*	4.5E-02	ca	1.0E+01		
Arsine	7784-42-1							5.0E-05	I			1			7.1E+04	nc	3.0E+05	nc	5.2E-02	nc	2.2E-01	nc					
Assure	76578-14-8					9.0E-03	I					1	0.1		5.5E+02	nc	5.5E+03	nc					3.3E+02	nc		3.6E+00	
Asulam	3337-71-1					5.0E-02	I					1	0.1		3.1E+03	nc	3.1E+04	nc					1.8E+03	nc		5.2E-01	
Atrazine	1912-24-9	2.3E-01	C			3.5E-02	I					1	0.1		2.1E+00	ca	7.5E+00	ca					2.9E-01	ca	3.0E+00	1.9E-04	2.0E-03
Avermectin B1	65195-55-3					4.0E-04	I					1	0.1		2.4E+01	nc	2.5E+02	nc					1.5E+01	nc		4.1E-02	
Azobenzene	103-33-3	1.1E-01	I	3.1E-05	I					V		1			4.9E+00	ca	2.2E+01	ca	7.8E-02	ca	4.0E-01	ca	1.2E-01	ca		5.1E-04	
Barium	7440-39-3					2.0E-01	I	5.0E-04	H			0.07			1.5E+04	nc	1.9E+05	nc	5.2E-01	nc	2.2E+00	nc	7.3E+03	nc	2.0E+03		
Baygon	114-26-1					4.0E-03	I					1	0.1		2.4E+02	nc	2.5E+03	nc					1.5E+02	nc		4.2E-02	
Bayleton	43121-43-3					3.0E-02	I					1	0.1		1.8E+03	nc	1.8E+04	nc					1.1E+03	nc		1.2E+01	
Baythroid	68359-37-5					2.5E-02	I					1	0.1		1.5E+03	nc	1.5E+04	nc					9.1E+02	nc		3.3E+02	
Benefin	1861-40-1					3.0E-01	I					1	0.1		1.8E+04	nc	1.8E+05	nc					1.1E+04	nc		2.1E+02	
Benomyl	17804-35-2					5.0E-02	I					1	0.1		3.1E+03	nc	3.1E+04	nc					1.8E+03	nc		2.3E+00	
Bentazon	25057-89-0					3.0E-02	I					1	0.1		1.8E+03	nc	1.8E+04	nc					1.1E+03	nc		3.0E-01	
Benzaldehyde	100-52-7					1.0E-01	I			V		1		1.9E+03	7.8E+03	sat	1.0E+05	nc					3.7E+03	nc		9.7E-01	
Benzene	71-43-2	5.5E-02	I	7.8E-06	I	4.0E-03	I	3.0E-02	I	V		1		2.0E+03	1.1E+00	ca*	5.6E+00	ca*	3.1E-01	ca	1.6E+00	ca*	4.1E-01	ca	5.0E+00	2.3E-04	2.8E-03
Benzenethiol	108-98-5					1.0E-05	H			V		1		1.4E+03	7.8E-01	nc	1.0E+01	nc					3.7E-01	nc		2.7E-04	
Benzidine	92-87-5	2.3E+02	I	6.7E-02	I	3.0E-03	I				M	1	0.1		5.0E-04	ca	7.5E-03	ca	1.4E-05	ca	1.8E-04	ca	9.4E-05	ca		5.3E-07	
Benzoic Acid	65-85-0					4.0E+00	I					1	0.1		2.4E+05	nc	2.5E+06	nc					1.5E+05	nc		3.3E+01	
Benzotrichloride	98-07-7	1.3E+01	I							V		1		1.6E+02	4.9E-02	ca	2.2E-01	ca					5.2E-03	ca		1.3E-05	
Benzyl Alcohol	100-51-6					5.0E-01	P					1	0.1		3.1E+04	nc	3.1E+05	nc					1.8E+04	nc		4.2E+00	
Benzyl Chloride	100-44-7	1.7E-01	I							V		1		6.4E+01	3.8E+00	ca	1.7E+01	ca					4.0E-01	ca		4.9E-04	
Beryllium and compounds	7440-41-7			2.4E-03	I	2.0E-03	I	2.0E-05	I			0.01			1.6E+02	nc	2.0E+03	nc	1.0E-03	ca*	5.1E-03	ca*	7.3E+01	nc	4.0E+00		
Bidrin	141-66-2					1.0E-04	I					1	0.1		6.1E+00	nc	6.2E+01	nc					3.7E+00	nc		3.4E-03	
Bifenox	42576-02-3					9.0E-03	P					1	0.1		5.5E+02	nc	5.5E+03	nc					3.3E+02	nc		2.6E+00	
Biphenthrin	82657-04-3					1.5E-02	I					1	0.1		9.2E+02	nc	9.2E+03	nc					5.5E+02	nc		3.5E+03	
Biphenyl, 1,1'-	92-52-4					5.0E-02	I			V		1		2.6E+02	3.9E+03	sat	5.1E+04	nc					1.8E+03	nc		2.3E+01	
Bis(2-chloroethoxy)methane	111-91-1					3.0E-03	P					1	0.1		1.8E+02	nc	1.8E+03	nc					1.1E+02	nc		2.3E-02	
Bis(2-chloroethyl)ether	111-44-4	1.1E+00	I	3.3E-04	I					V		1		3.3E+03	1.9E-01	ca	9.0E-01	ca	7.4E-03	ca	3.7E-02	ca	1.2E-02	ca		2.7E-06	
Bis(2-chloro-1-methylethyl) ether	108-60-1	7.0E-02	H	1.0E-05	H	4.0E-02	I			V		1		5.7E+02	3.5E+00	ca	1.7E+01	ca	2.4E-01	ca	1.2E+00	ca	3.2E-01	ca		9.0E-05	
Bis(2-ethylhexyl)phthalate	117-81-7	1.4E-02	I			2.0E-02	I					1	0.1		3.5E+01	ca*	1.2E+02	ca*					4.8E+00	ca	6.0E+00	1.6E+00	2.0E+00
Bis(chloromethyl)ether	542-88-1	2.2E+02	I	6.2E-02	I					V		1		2.8E+03	2.7E-04	ca	1.3E-03	ca	3.9E-05	ca	2.0E-04	ca	6.2E-05	ca		1.3E-08	
Bisphenol A	80-05-7					5.0E-02	I					1	0.1		3.1E+03	nc	3.1E+04	nc					1.8E+03	nc		2.7E+02	

Key: I = IRIS; P = PPRTV; A = ATSDR; C = Cal EPA; H = HEAST; W = WHO; S = see user guide Section 5; L = see user guide on lead; M = mutagen; V= volatile; ca = cancer; ca* = where: nc SL < 100X ca SL; ca** = where nc SL < 10X ca SL; nc = noncancer; max=Concentration may exceed ceiling limit (See User's Guide); sat=Concentration may exceed Csat (See User's Guide); SSL values are bsed on DAF=1

Contaminant		Toxicity and Chemical-specific Information												Screening Levels										Protection of Groundwater Soil Screening Levels	
Analyte	CAS No.	SFO (mg/kg-day)$^{-1}$	key	IUR (ug/m^3)$^{-1}$	key	RfDo (mg/kg-day)	key	RfCi (mg/m^3)	key	mutagen	RAGS Part E GIABS	RAGS Part E ABS	Csat mg/kg	Residential Soil mg/kg	key	Industrial Soil mg/kg	key	Residential Air ug/m^3	key	Industrial Air ug/m^3	key	Tapwater ug/L	key	MCL ug/L	Risk-based SSL mg/kg	MCL-based SSL mg/kg
Boron And Borates Only	7440-42-8					2.0E-01	I	2.0E-02	H		1			1.6E+04	nc	2.0E+05	nc	2.1E+01	nc	8.8E+01	nc	7.3E+03	nc			
Boron Trifluoride	7/2/7637							7.0E-04	H		1			9.9E+05	nc	4.2E+06	nc	7.3E-01	nc	3.1E+00	nc					
Bromate	15541-45-4	7.0E-01	I			4.0E-03	I				1			9.1E-01	ca	4.1E+00	ca					9.6E-02	ca	1.0E+01		
Bromodichloromethane	75-27-4	6.2E-02	I			2.0E-02	I		V		1		9.9E+02	1.0E+01	ca	4.6E+01	ca					1.1E+00	ca		3.0E-04	
Bromoform	75-25-2	7.9E-03	I	1.1E-06	I	2.0E-02	I				1	0.1		6.1E+01	ca*	2.2E+02	ca*	2.2E+00	ca	1.1E+01	ca	8.5E+00	ca*		2.3E-03	
Bromomethane	74-83-9					1.4E-03	I	5.0E-03	I	V	1		3.6E+03	7.9E+00	nc	3.5E+01	nc	5.2E+00	nc	2.2E+01	nc	8.7E+00	nc		2.2E-03	
Bromophos	2104-96-3					5.0E-03	H				1	0.1		3.1E+02	nc	3.1E+03	nc					1.8E+02	nc		7.7E-01	
Bromoxynil	1689-84-5					2.0E-02	I				1	0.1		1.2E+03	nc	1.2E+04	nc					7.3E+02	nc		7.8E-01	
Bromoxynil Octanoate	1689-99-2					2.0E-02	I				1	0.1		1.2E+03	nc	1.2E+04	nc					7.3E+02	nc		7.2E+00	
Butadiene, 1,3-	106-99-0			3.0E-05	I			2.0E-03	I	V	1		6.9E+02	7.7E-02	ca*	3.9E-01	ca*	8.1E-02	ca*	4.1E-01	ca*	1.6E-01	ca*		9.0E-05	
Butanol, N-	71-36-3					1.0E-01	I				1	0.1		6.1E+03	nc	6.2E+04	nc					3.7E+03	nc		7.5E-01	
Butyl Benzyl Phthlate	85-68-7					2.0E-01	I				1	0.1		1.2E+04	nc	1.2E+05	nc					7.3E+03	nc		1.4E+02	
Butylate	2008-41-5					5.0E-02	I				1	0.1		3.1E+03	nc	3.1E+04	nc					1.8E+03	nc		2.6E+00	
Butylphthalyl Butylglycolate	85-70-1					1.0E+00	I				1	0.1		6.1E+04	nc	6.2E+05	nc					3.7E+04	nc		1.1E+03	
Cacodylic Acid	75-60-5					2.0E-02	A				1	0.1		1.2E+03	nc	1.2E+04	nc					7.3E+02	nc			
Cadmium (Diet)	7440-43-9			1.8E-03	I	1.0E-03	I				0.03	0.001		7.0E+01	nc	8.1E+02	nc									
Cadmium (Water)	7440-43-9			1.8E-03	I	5.0E-04	I				0.05	0.001						1.4E-03	ca	6.8E-03	ca	1.8E+01	nc	5.0E+00		
Caprolactam	105-60-2					5.0E-01	I				1	0.1		3.1E+04	nc	3.1E+05	nc					1.8E+04	nc		5.7E+00	
Captafol	6/1/2425	1.5E-01	C	4.3E-05	C	2.0E-03	I				1	0.1		3.2E+00	ca*	1.1E+01	ca	5.7E-02	ca	2.9E-01	ca	4.5E-01	ca		2.5E-03	
Captan	133-06-2	2.3E-03	C	6.6E-07	C	1.3E-01	I				1	0.1		2.1E+02	ca*	7.5E+02	ca	3.7E+00	ca	1.9E+01	ca	2.9E+01	ca		5.6E-02	
Carbaryl	63-25-2					1.0E-01	I				1	0.1		6.1E+03	nc	6.2E+04	nc					3.7E+03	nc		2.5E+00	
Carbazole	86-74-8	2.0E-02	H								1	0.1		2.4E+01	ca	8.6E+01	ca					3.4E+00	ca		7.7E-02	
Carbofuran	1563-66-2					5.0E-03	I				1	0.1		3.1E+02	nc	3.1E+03	nc					1.8E+02	nc	4.0E+01	6.2E-02	1.4E-02
Carbon Disulfide	75-15-0					1.0E-01	I	7.0E-01	I	V	1		2.6E+02	6.7E+02	sat	3.0E+03	nc	7.3E+02	nc	3.1E+03	nc	1.0E+03	nc		2.7E-01	
Carbon Tetrachloride	56-23-5	1.3E-01	I	1.5E-05	I	7.0E-04	I	1.9E-01	A	V	1		4.8E+02	2.5E-01	ca	1.3E+00	ca	1.6E-01	ca	8.2E-01	ca	2.0E-01	ca	5.0E+00	7.9E-05	2.0E-03
Carbosulfan	55285-14-8					1.0E-02	I				1	0.1		6.1E+02	nc	6.2E+03	nc					3.7E+02	nc		1.1E+01	
Carboxin	5234-68-4					1.0E-01	I				1	0.1		6.1E+03	nc	6.2E+04	nc					3.7E+03	nc		1.3E+00	
Chloral Hydrate	302-17-0					1.0E-01	I				1	0.1		6.1E+03	nc	6.2E+04	nc					3.7E+03	nc		7.4E-01	
Chloramben	133-90-4					1.5E-02	I				1	0.1		9.2E+02	nc	9.2E+03	nc					5.5E+02	nc		1.2E-01	
Chloranil	118-75-2	4.0E-01	H								1	0.1		1.2E+00	ca	4.3E+00	ca					1.7E-01	ca		3.7E-05	
Chlordane	57-74-9	3.5E-01	I	1.0E-04	I	5.0E-04	I	7.0E-04	I		1	0.04		1.6E+00	ca*	6.5E+00	ca*	2.4E-02	ca*	1.2E-01	ca*	1.9E-01	ca*	2.0E+00	3.3E-02	3.5E-01
Chlordecone (Kepone)	143-50-0	1.6E+01	C	4.6E-03	C						1	0.1		3.0E-02	ca	1.1E-01	ca	5.3E-04	ca	2.7E-03	ca	4.2E-03	ca		1.5E-04	
Chlorimuron, Ethyl-	90982-32-4					2.0E-02	I				1	0.1		1.2E+03	nc	1.2E+04	nc					7.3E+02	nc		2.6E-01	
Chlorine	7782-50-5					1.0E-01	I	1.5E-04	A		1			7.5E+03	nc	9.1E+04	nc	1.5E-01	nc	6.4E-01	nc	3.7E+03	nc		1.8E+00	
Chlorine Dioxide	10049-04-4					3.0E-02	I	2.0E-04	I		1			2.3E+03	nc	3.0E+04	nc	2.1E-01	nc	8.8E-01	nc	1.1E+03	nc			
Chlorite (Sodium Salt)	7758-19-2					3.0E-02	I				1			2.3E+03	nc	3.1E+04	nc					1.1E+03	nc			
Chloro-1,1-difluoroethane, 1-	75-68-3							5.0E+01	I	V	1		1.2E+03	5.9E+04	sat	2.5E+05	nc	5.2E+04	nc	2.2E+05	nc	1.0E+05	nc		5.3E+01	
Chloro-1,3-butadiene, 2-	126-99-8					2.0E-02	H	7.0E-03	H	V	1		8.2E+02	8.6E+00	nc	3.6E+01	nc	7.3E+00	nc	3.1E+01	nc	1.4E+01	nc		7.7E-03	
Chloro-2-methylaniline HCl, 4-	3165-93-3	4.6E-01	H								1	0.1		1.1E+00	ca	3.7E+00	ca					1.5E-01	ca		6.4E-05	
Chloro-2-methylaniline, 4-	95-69-2	2.7E-01	C	7.7E-05	C						1	0.1		1.8E+00	ca	6.4E+00	ca	3.2E-02	ca	1.6E-01	ca	2.5E-01	ca		1.1E-04	
Chloroacetic Acid	79-11-8					2.0E-03	H				1	0.1		1.2E+02	nc	1.2E+03	nc					7.3E+01	nc		1.5E-02	
Chloroacetophenone, 2-	532-27-4							3.0E-05	I		1	0.1		4.3E+04	nc	1.8E+05	nc	3.1E-02	nc	1.3E-01	nc					
Chloroaniline, p-	106-47-8					4.0E-03	I				1	0.1		2.4E+02	nc	2.5E+03	nc					1.5E+02	nc		5.0E-02	
Chlorobenzene	108-90-7					2.0E-02	I	5.0E-02	P	V	1		8.6E+02	3.1E+02	nc	1.5E+03	nc	5.2E+01	nc	2.2E+02	nc	9.1E+01	nc	1.0E+02	6.8E-02	7.5E-02
Chlorobenzilate	510-15-6	1.1E-01	C	3.1E-11	C	2.0E-02	I				1	0.1		4.4E+00	ca	1.6E+01	ca	7.8E+04	ca	4.0E+05	ca	6.1E-01	ca		1.7E-03	
Chlorobenzoic Acid, p-	74-11-3					2.0E-01	H				1	0.1		1.2E+04	nc	1.2E+05	nc					7.3E+03	nc		1.8E+00	
Chlorobenzotrifluoride, 4-	98-56-6					3.0E-03	P	3.0E-01	P	V	1		5.5E+02	2.1E+02	nc	2.4E+03	nc	3.1E+02	nc	1.3E+03	nc	9.3E+01	nc		3.9E-01	
Chlorobutane, 1-	109-69-3					4.0E-02	P			V	1		7.9E+02	3.1E+03	sat	4.1E+04	nc					1.5E+03	nc		6.2E-01	
Chlorodifluoromethane	75-45-6							5.0E+01	I	V	1		1.7E+03	5.3E+04	sat	2.2E+05	nc	5.2E+04	nc	2.2E+05	nc	1.0E+05	nc		4.4E+01	
Chloroform	67-66-3	3.1E-02	C	2.3E-05	I	1.0E-02	I	9.8E-02	A	V	1		2.7E+03	3.0E-01	ca	1.5E+00	ca	1.1E-01	ca	5.3E-01	ca	1.9E-01	ca		5.5E-05	
Chloromethane	74-87-3	1.3E-02	H	1.8E-06	H			9.0E-02	I	V	1		1.4E+03	1.7E+00	ca*	8.4E+00	ca*	1.4E+00	ca*	6.8E+00	ca*	1.8E+00	ca		4.6E-04	
Chloronaphthalene, Beta-	91-58-7					8.0E-02	I		V		1		2.1E+02	6.3E+03	sat	8.2E+04	nc					2.9E+03	nc		1.8E+01	
Chlorophenol, 2-	95-57-8					5.0E-03	I		V		1		7.9E+04	3.9E+02	nc	5.1E+03	nc					1.8E+02	nc		2.0E-01	
Chloropropane, 2-	75-29-6							1.0E-01	H	V	1		1.4E+03	1.5E+02	nc	6.2E+02	nc	1.0E+02	nc	4.4E+02	nc	2.1E+02	nc		7.0E-02	
Chlorothalonil	1897-45-6	3.1E-03	C	8.9E-07	C	1.5E-02	I				1	0.10		1.6E+02	ca**	5.6E+02	ca*	2.7E+00	ca	1.4E+01	ca	2.2E+01	ca*		1.1E-01	
Chlorotoluene, o-	95-49-8					2.0E-02	I		V		1		1.0E+03	1.6E+03	sat	2.0E+04	nc					7.3E+02	nc		8.0E-01	
Chlorotoluene, p-	106-43-4					7.0E-02	P		V		1		2.9E+02	5.5E+03	sat	7.2E+04	nc					2.6E+03	nc		2.8E+00	
Chlorpropham	101-21-3					2.0E-01	I				1	0.10		1.2E+04	nc	1.2E+05	nc					7.3E+03	nc		4.5E+00	
Chlorpyrifos	2921-88-2					3.0E-03	I				1	0.10		1.8E+02	nc	1.8E+03	nc					1.1E+02	nc		1.5E+00	
Chlorpyrifos Methyl	5598-13-0					1.0E-02	H				1	0.10		6.1E+02	nc	6.2E+03	nc					3.7E+02	nc		1.5E+00	
Chlorsulfuron	64902-72-3					5.0E-02	I				1	0.10		3.1E+03	nc	3.1E+04	nc					1.8E+03	nc		1.2E+00	
Chlorthiophos	60238-56-4					8.0E-04	H				1	0.10		4.9E+01	nc	4.9E+02	nc					2.9E+01	nc		7.8E-01	
Chromium (III) (Insoluble Salts)	16065-83-1					1.5E+00	I				0.01			1.2E+05	nc	1.5E+06	nc					5.5E+04	nc			
Chromium VI (chromic acid mists)	18540-29-9			1.2E-02	I	3.0E-03	I	8.0E-06	I		1			2.3E+02	nc	1.4E+03	ca**	2.0E-04	ca*	1.0E-03	ca*	1.1E+02	nc			
Chromium VI (particulates)	18540-29-9			1.2E-02	I	3.0E-03	I	1.0E-04	I		0.03							2.0E-04	ca	1.0E-03	ca					
Coke Oven Emissions	8007-45-2			6.2E-04	I					M	1	0.10						1.5E-03	ca	2.0E-02	ca					
Copper	7440-50-8					4.0E-02	H				1			3.1E+03	nc	4.1E+04	nc					1.5E+03	nc	1.3E+03		
Cresol, m-	108-39-4					5.0E-02	I				1	0.10		3.1E+03	nc	3.1E+04	nc					1.8E+03	nc		1.9E+00	
Cresol, o-	95-48-7					5.0E-02	I				1	0.10		3.1E+03	nc	3.1E+04	nc					1.8E+03	nc		2.0E+00	
Cresol, p-	106-44-5					5.0E-03	H				1	0.10		3.1E+02	nc	3.1E+03	nc					1.8E+02	nc		1.9E-01	
Crotonaldehyde, trans-	123-73-9	1.9E+00	H						V		1		2.4E+04	3.4E-01	ca	1.5E+00	ca					3.5E-02	ca		7.4E-06	
Cumene	98-82-8					1.0E-01	I	4.0E-01	I	V	1		3.1E+02	2.2E+03	sat	1.1E+04	nc	4.2E+02	nc	1.8E+03	nc	6.8E+02	nc		1.3E+00	

Key: I = IRIS; P = PPRTV; A = ATSDR; C = Cal EPA; H = HEAST; W = WHO; S = see user guide Section 5; L = see user guide on lead; M = mutagen; V= volatile; ca = cancer; ca* = where: nc SL < 100X ca SL; ca** = where nc SL < 10X ca SL; nc = noncancer; max=Concentration may exceed ceiling limit (See User's Guide); sat=Concentration may exceed Csat (See User's Guide); SSL values are based on DAF=1

Contaminant		Toxicity and Chemical-specific Information												Screening Levels										Protection of Groundwater Soil Screening Levels	
Analyte	CAS No.	SFO (mg/kg-day)$^{-1}$	key	IUR (ug/m^3)$^{-1}$	key	RfDo (mg/kg-day)	key	RfCi (mg/m^3)	key	mutagen	RAGS Part E GIABS	RAGS Part E ABS	Csat mg/kg	Residential Soil mg/kg	key	Industrial Soil mg/kg	key	Residential Air ug/m^3	key	Industrial Air ug/m^3	key	Tapwater ug/L	key	MCL ug/L	Risk-based SSL mg/kg	MCL-based SSL mg/kg
Cyanazine	21725-46-2	8.4E-01	H			2.0E-03	H				1	0.10		5.8E-01	ca	2.1E+00	ca					8.0E-02	ca		3.6E-05	
Cyanides																										
Calcium Cyanide	592-01-8					4.0E-02	I				1			3.1E+03	nc	4.1E+04	nc					1.5E+03	nc			
Copper Cyanide	544-92-3					5.0E-03	I				1			3.9E+02	nc	5.1E+03	nc					1.8E+02	nc			
Cyanide (CN-)	57-12-5					2.0E-02	I				1			1.6E+03	nc	2.0E+04	nc					7.3E+02	nc	2.0E+02		
Cyanogen	460-19-5					4.0E-02	I			V	1			3.1E+03	nc	4.1E+04	nc					1.5E+03	nc			
Cyanogen Bromide	506-68-3					9.0E-02	I			V	1			7.0E+03	nc	9.2E+04	nc					3.3E+03	nc			
Cyanogen Chloride	506-77-4					5.0E-02	I			V	1			3.9E+03	nc	5.1E+04	nc					1.8E+03	nc			
Hydrogen Cyanide	74-90-8					2.0E-02	I	3.0E-03	I	V	1			1.6E+03	nc	2.0E+04	nc	3.1E+00	nc	1.3E+01	nc	6.2E+00	nc			
Potassium Cyanide	151-50-8					5.0E-02	I				1			3.9E+03	nc	5.1E+04	nc					1.8E+03	nc			
Potassium Silver Cyanide	506-61-6					2.0E-01	I				0.04			1.6E+04	nc	2.0E+05	nc					7.3E+03	nc			
Silver Cyanide	506-64-9					1.0E-01	I				0.04			7.8E+03	nc	1.0E+05	nc					3.7E+03	nc			
Sodium Cyanide	143-33-9					4.0E-02	I				1			3.1E+03	nc	4.1E+04	nc					1.5E+03	nc			
Thiocyanate	463-56-9					2.0E-04	P			V	1		5.6E+03	1.6E+01	nc	2.0E+02	nc					7.3E+00	nc		1.5E-03	
Zinc Cyanide	557-21-1					5.0E-02	I				1			3.9E+03	nc	5.1E+04	nc					1.8E+03	nc			
Cyclohexane	110-82-7							6.0E+00	I	V	1		1.2E+02	7.2E+03	sat	3.0E+04	nc	6.3E+03	nc	2.6E+04	nc	1.3E+04	nc		1.3E+01	
Cyclohexane, 1,2,3,4,5-pentabromo-6-chloro-	87-84-3	2.3E-02	H								1	0.1		2.1E+01	ca	7.5E+01	ca					2.9E+00	ca		2.0E-02	
Cyclohexanone	108-94-1					5.0E+00	I				1	0.1		3.1E+05	nc	3.1E+06	nc					1.8E+05	nc		4.2E+01	
Cyclohexylamine	108-91-8					2.0E-01	I				1	0.1		1.2E+04	nc	1.2E+05	nc					7.3E+03	nc		2.0E+00	
Cyhalothrin/karate	68085-85-8					5.0E-03	I				1	0.1		3.1E+02	nc	3.1E+03	nc					1.8E+02	nc		1.7E+02	
Cypermethrin	52315-07-8					1.0E-02	I				1	0.1		6.1E+02	nc	6.2E+03	nc					3.7E+02	nc		7.9E+01	
Cyromazine	66215-27-8					7.5E-03	I				1	0.1		4.6E+02	nc	4.6E+03	nc					2.7E+02	nc		6.6E-02	
Dacthal	1861-32-1					1.0E-02	I				1	0.1		6.1E+02	nc	6.2E+03	nc					3.7E+02	nc		2.8E-01	
Dalapon	75-99-0					3.0E-02	I				1	0.1		1.8E+03	nc	1.8E+04	nc					1.1E+03	nc	2.0E+02	2.2E-01	4.1E-02
DDD	72-54-8	2.4E-01	I								1	0.1		2.0E+00	ca	7.2E+00	ca					2.8E-01	ca		8.6E-02	
DDE, p,p'-	72-55-9	3.4E-01	I								1	0.1		1.4E+00	ca	5.1E+00	ca					2.0E-01	ca		6.0E-02	
DDT	50-29-3	3.4E-01	I	9.7E-05	I	5.0E-04	I				1	0.03		1.7E+00	ca*	7.0E+00	ca*	2.5E-02	ca	1.3E-01	ca	2.0E-01	ca*		8.7E-02	
Decabromodiphenyl Ether	1163-19-5					1.0E-02	I				1	0.1		6.1E+02	nc	6.2E+03	nc					3.7E+02	nc		3.0E+02	
Demeton	8065-48-3					4.0E-05	I				1	0.1		2.4E+00	nc	2.5E+01	nc					1.5E+00	nc			
Di(2-ethylhexyl)adipate	103-23-1	1.2E-03	I			6.0E-01	I				1	0.1		4.0E+02	ca*	1.4E+03	ca					5.6E+01	ca	4.0E+02	5.5E+00	3.9E+01
Diallate	2303-16-4	6.1E-02	H								1	0.1		8.0E+00	ca	2.8E+01	ca					1.1E+00	ca		2.5E-03	
Diazinon	333-41-5					9.0E-04	H				1	0.1		5.5E+01	nc	5.5E+02	nc					3.3E+01	nc		9.4E-02	
Dibromo-3-chloropropane, 1,2-	96-12-8	8.0E-01	P	6.0E-03	P	2.0E-04	P	2.0E-04	I	V	M	1	1.1E+03	5.6E-03	ca	7.3E-02	ca	1.6E-04	ca	2.0E-03	ca	3.2E-04	ca	2.0E-01	1.5E-07	9.2E-05
Dibromobenzene, 1,4-	106-37-6					1.0E-02	I				1	0.1		6.1E+02	nc	6.2E+03	nc					3.7E+02	nc		3.9E-01	
Dibromochloromethane	124-48-1	8.4E-02	I			2.0E-02	I			V	1	0.1	8.5E+02	5.8E+00	ca	2.1E+01	ca					8.0E-01	ca		2.2E-04	
Dibromoethane, 1,2-	106-93-4	2.0E+00	I	6.0E-04	I	9.0E-03	I	9.0E-03	I	V		1	1.4E+03	3.4E-02	ca	1.7E-01	ca	4.1E-03	ca	2.0E-02	ca	6.5E-03	ca	5.0E-02	1.9E-06	1.5E-05
Dibromomethane (Methylene Bromide)	74-95-3					1.0E-02	H			V	1		3.0E+03	7.8E+02	nc	1.0E+04	nc					3.7E+02	nc		9.1E-02	
Dibutyl Phthalate	84-74-2					1.0E-01	I				1	0.1		6.1E+03	nc	6.2E+04	nc					3.7E+03	nc		1.1E+01	
Dibutyltin Compounds	NA					3.0E-04	P				1	0.1		1.8E+01	nc	1.8E+02	nc					1.1E+01	nc			
Dicamba	1918-00-9					3.0E-02	I				1	0.1		1.8E+03	nc	1.8E+04	nc					1.1E+03	nc		2.8E-01	
Dichloro-2-butene, 1,4-	764-41-0			2.6E-03	H					V	1		1.1E+02	3.2E-03	ca	1.6E-02	ca	9.4E-04	ca	4.7E-03	ca	1.9E-03	ca		9.9E-07	
Dichloroacetic Acid	79-43-6	5.0E-02	I			4.0E-03	I				1	0.1		9.7E+00	ca*	3.4E+01	ca*					1.3E+00	ca		2.7E-04	
Dichlorobenzene, 1,2-	95-50-1					9.0E-02	I	2.0E-01	H	V		1	2.2E+02	2.0E+03	sat	1.0E+04	nc	2.1E+02	nc	8.8E+02	nc	3.7E+02	nc	6.0E+02	4.0E-01	6.6E-01
Dichlorobenzene, 1,4-	106-46-7	5.4E-03	C	1.1E-05	C			8.0E-01	I	V		1		2.6E+00	ca	1.3E+01	ca	2.2E-01	ca	1.1E+00	ca	4.3E-01	ca	7.5E+01	4.6E-04	8.1E-02
Dichlorobenzidine, 3,3'-	91-94-1	4.5E-01	I								1	0.1		1.1E+00	ca	3.8E+00	ca					1.5E-01	ca		2.3E-03	
Dichlorodifluoromethane	75-71-8					2.0E-01	I	2.0E-01	H	V		1	8.5E+02	1.9E+02	nc	7.8E+02	nc	2.1E+02	nc	8.8E+02	nc	3.9E+02	nc		6.1E-01	
Dichloroethane, 1,1-	75-34-3	5.7E-03	C	1.6E-06	C	2.0E-01	P	5.0E-01	H	V		1	1.8E+03	3.4E+00	ca	1.7E+01	ca	1.5E+00	ca	7.7E+00	ca	2.4E+00	ca		7.0E-04	
Dichloroethane, 1,2-	107-06-2	9.1E-02	I	2.6E-05	I			2.4E+00	A	V		1	1.9E+03	4.5E-01	ca	2.2E+00	ca	9.4E-02	ca	4.7E-01	ca	1.5E-01	ca	5.0E+00	4.4E-05	1.5E-03
Dichloroethylene, 1,1-	75-35-4					5.0E-02	I	2.0E-01	I	V		1	1.2E+03	2.5E+02	nc	1.1E+03	nc	2.1E+02	nc	8.8E+02	nc	3.4E+02	nc	7.0E+00	1.2E-01	2.6E-03
Dichloroethylene, 1,2- (Mixed Isomers)	540-59-0					9.0E-03	H			V	1		1.4E+03	7.0E+02	nc	9.2E+03	nc					3.3E+02	nc		9.9E-02	
Dichloroethylene, 1,2-cis-	156-59-2					1.0E-02	P			V	1		1.4E+03	7.8E+02	nc	1.0E+04	nc					3.7E+02	nc	7.0E+01	1.1E-01	2.1E-02
Dichloroethylene, 1,2-trans-	156-60-5					2.0E-02	I	6.0E-02	P	V		1	1.5E+03	1.1E+02	nc	5.0E+02	nc	6.3E+01	nc	2.6E+02	nc	1.1E+02	nc	1.0E+02	3.4E-02	3.2E-02
Dichlorophenol, 2,4-	120-83-2					3.0E-03	I				1	0.1		1.8E+02	nc	1.8E+03	nc					1.1E+02	nc		1.8E-01	
Dichlorophenoxy Acetic Acid, 2,4-	94-75-7					1.0E-02	I				1	0.05		6.9E+02	nc	7.7E+03	nc					3.7E+02	nc	7.0E+01	9.4E-02	1.8E-02
Dichlorophenoxy)butyric Acid, 4-(2,4-	94-82-6					8.0E-03	I				1	0.1		4.9E+02	nc	4.9E+03	nc					2.9E+02	nc		1.2E-01	
Dichloropropane, 1,2-	78-87-5	3.6E-02	C	1.0E-05	C			4.0E-03	I	V		1	1.5E+03	9.3E-01	ca*	4.7E+00	ca*	2.4E-01	ca*	1.2E+00	ca*	3.9E-01	ca*	5.0E+00	1.3E-04	1.7E-03
Dichloropropane, 1,3-	142-28-9					2.0E-02	P			V	1		1.6E+03	1.6E+03	nc	2.0E+04	nc					7.3E+02	nc		2.7E-01	
Dichloropropanol, 2,3-	616-23-9					3.0E-03	I				1	0.1		1.8E+02	nc	1.8E+03	nc					1.1E+02	nc		2.3E-02	
Dichloropropene, 1,3-	542-75-6	1.0E-01	I	4.0E-06	I	3.0E-02	I	2.0E-02	I	V		1	1.7E+03	1.7E+00	ca*	8.4E+00	ca*	6.1E-01	ca*	3.1E+00	ca*	4.3E-01	ca*		1.6E-04	
Dichlorvos	62-73-7	2.9E-01	I			5.0E-04	I	5.0E-04	I			1	0.1	1.7E+00	ca*	5.9E+00	ca*	5.2E-01	nc	2.2E+00	nc	2.3E-01	ca*		6.5E-05	
Dicyclopentadiene	77-73-6					8.0E-03	P	7.0E-03	P	V		1	5.9E+02	2.9E+01	nc	1.3E+02	nc	7.3E+00	nc	3.1E+01	nc	1.4E+01	nc		5.6E-02	
Dieldrin	60-57-1	1.6E+01	I	4.6E-03	I	5.0E-05	I				1	0.1		3.0E-02	ca	1.1E-01	ca	5.3E-04	ca	2.7E-03	ca	4.2E-03	ca		9.0E-05	
Diesel Engine Exhaust	NA							5.0E-03	I			1	0.1					5.2E+00	nc	2.2E+01	nc					
Diethyl Phthalate	84-66-2					8.0E-01	I				1	0.1		4.9E+04	nc	4.9E+05	nc					2.9E+04	nc		1.3E+01	
Diethylformamide	617-84-5					1.0E-03	P				1	0.1		6.1E+01	nc	6.2E+02	nc					3.7E+01	nc		8.0E-03	
Diethylstilbestrol	56-53-1	3.5E+02	C	1.0E-01	C						1	0.1		1.4E-03	ca	4.9E-03	ca	2.4E-05	ca	1.2E-04	ca	1.9E-04	ca		2.2E-04	
Difenzoquat	43222-48-6					8.0E-02	I				1	0.1		4.9E+03	nc	4.9E+04	nc					2.9E+03	nc			
Diflubenzuron	35367-38-5					2.0E-02	I				1	0.1		1.2E+03	nc	1.2E+04	nc					7.3E+02	nc		1.7E+00	
Difluoroethane, 1,1-	75-37-6							4.0E+01	I	V		1	1.5E+03	5.3E+04	sat	2.2E+05	nc	4.2E+04	nc	1.8E+05	nc	8.3E+04	nc		2.9E+01	
Diisopropyl Methylphosphonate	1445-75-6					8.0E-02	I			V	1		4.3E+02	6.3E+03	sat	8.2E+04	nc					2.9E+03	nc		7.7E-01	
Dimethipin	55290-64-7					2.0E-02	I				1	0.1		1.2E+03	nc	1.2E+04	nc					7.3E+02	nc		1.9E-01	
Dimethoate	60-51-5					2.0E-04	I				1	0.1		1.2E+01	nc	1.2E+02	nc					7.3E+00	nc		1.8E-03	

Key: I = IRIS; P = PPRTV; A = ATSDR; C = Cal EPA; H = HEAST; W = WHO; S = see user guide Section 5; L = see user guide on lead; M = mutagen; V= volatile; ca = cancer; ca* = where: nc SL < 100X ca SL; ca** = where nc SL < 10X ca SL; nc = noncancer; max=Concentration may exceed ceiling limit (See User's Guide); sat=Concentration may exceed Csat (See User's Guide); SSL values are bsed on DAF=1

Contaminant		Toxicity and Chemical-specific Information												Screening Levels										Protection of Groundwater Soil Screening Levels	
Analyte	CAS No.	SFO (mg/kg-day)$^{-1}$	key	IUR (ug/m^3)$^{-1}$	key	RfDo (mg/kg-day)	key	RfCi (mg/m^3)	key	volatile	muta-gen	RAGS Part E GIABS	RAGS Part E ABS	Csat mg/kg	Residential Soil mg/kg	key	Industrial Soil mg/kg	key	Residential Air ug/m^3	key	Industrial Air ug/m^3	key	Tapwater ug/L	key	MCL ug/L	Risk-based SSL mg/kg	MCL-based SSL mg/kg
Dimethoxybenzidine, 3,3'-	119-90-4	1.4E-02	H									1	0.1		3.5E+01	ca	1.2E+02	ca					4.8E+00	ca		1.5E-02	
Dimethyl methylphosphonate	756-79-6	1.7E-03	P			6.0E-02	P					1	0.1		2.9E+02	ca*	1.0E+03	ca*					4.0E+01	ca*		8.2E-03	
Dimethylaniline HCl, 2,4-	21436-96-4	5.8E-01	H									1	0.1		8.4E-01	ca	3.0E+00	ca					1.2E-01	ca		5.1E-05	
Dimethylaniline, 2,4-	95-68-1	7.5E-01	H									1	0.1		6.5E-01	ca	2.3E+00	ca					9.0E-02	ca		3.9E-05	
Dimethylaniline, N,N-	121-69-7					2.0E-03	I			V		1		8.2E+02	1.6E+02	nc	2.0E+03	nc					7.3E+01	nc		2.6E-02	
Dimethylformamide	68-12-2					1.0E-01	P	3.0E-02	I			1	0.1		6.1E+03	nc	6.2E+04	nc	3.1E+01	nc	1.3E+02	nc	3.7E+03	nc		7.5E-01	
Dimethylphenol, 2,4-	105-67-9					2.0E-02	I					1	0.1		1.2E+03	nc	1.2E+04	nc					7.3E+02	nc		1.2E+00	
Dimethylphenol, 2,6-	576-26-1					6.0E-04	I					1	0.1		3.7E+01	nc	3.7E+02	nc					2.2E+01	nc		3.6E-02	
Dimethylphenol, 3,4-	95-65-8					1.0E-03	I					1	0.1		6.1E+01	nc	6.2E+02	nc					3.7E+01	nc		6.0E-02	
Dimethylterephthalate	120-61-6					1.0E-01	I			V		1		6.1E+00	7.8E+03	sat	1.0E+05	nc					3.7E+03	nc		1.0E+00	
Dinitro-o-cyclohexyl Phenol, 4,6-	131-89-5					2.0E-03	I					1	0.1		1.2E+02	nc	1.2E+03	nc					7.3E+01	nc		2.1E+00	
Dinitrobenzene, 1,2-	528-29-0					1.0E-04	P					1	0.1		6.1E+00	nc	6.2E+01	nc					3.7E+00	nc		2.4E-03	
Dinitrobenzene, 1,3-	99-65-0					1.0E-04	I					1	0.1		6.1E+00	nc	6.2E+01	nc					3.7E+00	nc		2.3E-03	
Dinitrobenzene, 1,4-	100-25-4					1.0E-04	P					1	0.1		6.1E+00	nc	6.2E+01	nc					3.7E+00	nc		2.3E-03	
Dinitrophenol, 2,4-	51-28-5					2.0E-03	I					1	0.1		1.2E+02	nc	1.2E+03	nc					7.3E+01	nc		6.8E-02	
Dinitrotoluene Mixture, 2,4/2,6-	25321-14-6	6.8E-01	I			2.0E-03	H					1	0.1		7.1E-01	ca	2.5E+00	ca					9.9E-02	ca		9.3E-05	
Dinitrotoluene, 2,4-	121-14-2					2.0E-03	I					1	0.1		1.2E+02	nc	1.2E+03	nc					7.3E+01	nc		6.8E-02	
Dinitrotoluene, 2,6-	606-20-2					1.0E-03	P					1	0.1		6.1E+01	nc	6.2E+02	nc					3.7E+01	nc		3.4E-02	
Dinitrotoluene, 2-Amino-4,6-	35572-78-2					2.0E-03	S					1	0.1		1.2E+02	nc	1.2E+03	nc					7.3E+01	nc		2.9E-02	
Dinitrotoluene, 4-Amino-2,6-	19406-51-0					2.0E-03	S					1	0.1		1.2E+02	nc	1.2E+03	nc					7.3E+01	nc		2.9E-02	
Dinoseb	88-85-7					1.0E-03	I					1	0.1		6.1E+01	nc	6.2E+02	nc					3.7E+01	nc	7.0E+00	2.7E-01	5.1E-02
Dioxane, 1,4-	123-91-1	1.1E-02	I					3.6E+00	A			1	0.1		4.4E+01	ca	1.6E+02	ca	3.8E+03	nc	1.6E+04	nc	6.1E+00	ca		1.2E-03	
Dioxins																											
Hexachlorodibenzo-p-dioxin	34465-46-8	1.5E+04	W	3.3E+00	W							1	0.03		3.9E-05	ca	1.6E-04	ca	7.4E-07	ca	3.7E-06	ca	4.5E-06	ca		3.7E-06	
Hexachlorodibenzo-p-dioxin, Mixture	NA	6.2E+03	I	1.3E+00	I							1	0.03		9.4E-05	ca	3.9E-04	ca	1.9E-06	ca	9.4E-06	ca	1.1E-05	ca			
HpCDD, 2,3,7,8-	37871-00-4	1.5E+03	W	3.3E-01	W							1	0.03		3.9E-04	ca	1.6E-03	ca	7.4E-06	ca	3.7E-05	ca	4.5E-05	ca		6.3E-05	
OCDD	3268-87-9	4.5E+01	W	9.9E-03	W							1	0.03		1.3E-02	ca	5.3E-02	ca	2.5E-04	ca	1.2E-03	ca	1.5E-03	ca		3.5E-03	
PeCDD, 2,3,7,8-	36088-22-9	1.5E+05	W	3.3E+01	W							1	0.03		3.9E-06	ca	1.6E-05	ca	7.4E-08	ca	3.7E-07	ca	4.5E-07	ca		2.3E-07	
TCDD, 2,3,7,8-	1746-01-6	1.3E+05	C	3.8E+01	C	1.0E-09	A					1	0.03		4.5E-06	ca*	1.8E-05	ca*	6.4E-08	ca	3.2E-07	ca	5.2E-07	ca*	3.0E-05	1.5E-07	8.8E-06
Diphenamid	957-51-7					3.0E-02	I					1	0.1		1.8E+03	nc	1.8E+04	nc					1.1E+03	nc		3.4E+01	
Diphenylamine	122-39-4					2.5E-02	I					1	0.1		1.5E+03	nc	1.5E+04	nc					9.1E+02	nc		3.6E+00	
Diphenylhydrazine, 1,2-	122-66-7	8.0E-01	I	2.2E-04	I							1	0.1		6.1E-01	ca	2.2E+00	ca	1.1E-02	ca	5.6E-02	ca	8.4E-02	ca		6.0E-04	
Diquat	85-00-7					2.2E-03	I					1	0.1		1.3E+02	nc	1.4E+03	nc					8.0E+01	nc	2.0E+01	3.3E-01	8.1E-02
Direct Black 38	1937-37-7	7.4E+00	C	2.1E-03	C							1	0.1		6.6E-02	ca	2.3E-01	ca	1.2E-03	ca	5.8E-03	ca	9.1E-03	ca		1.4E+00	
Direct Blue 6	2602-46-2	7.4E+00	C	2.1E-03	C							1	0.1		6.6E-02	ca	2.3E-01	ca	1.2E-03	ca	5.8E-03	ca	9.1E-03	ca		4.0E+00	
Direct Brown 95	16071-86-6	6.7E+00	C	1.9E-03	C							1	0.1		7.2E-02	ca	2.6E-01	ca	1.3E-03	ca	6.5E-03	ca	1.0E-02	ca			
Disulfoton	298-04-4					4.0E-05	I					1	0.1		2.4E+00	nc	2.5E+01	nc					1.5E+00	nc		2.7E-03	
Dithiane, 1,4-	505-29-3					1.0E-02	I					1	0.1		6.1E+02	nc	6.2E+03	nc					3.7E+02	nc		1.9E-01	
Diuron	330-54-1					2.0E-03	I					1	0.1		1.2E+02	nc	1.2E+03	nc					7.3E+01	nc		3.4E-02	
Dodine	10/3/2439					4.0E-03	I					1	0.1		2.4E+02	nc	2.5E+03	nc					1.5E+02	nc		4.5E+00	
Endosulfan	115-29-7					6.0E-03	I					1	0.1		7.7E+02	nc	3.7E+03	nc					2.2E+02	nc		9.7E+00	
Endothall	145-73-3					2.0E-02	I					1	0.1		1.2E+03	nc	1.2E+04	nc					7.3E+02	nc	1.0E+02	1.6E-01	2.2E-02
Endrin	72-20-8					3.0E-04	I					1	0.1		1.8E+01	nc	1.8E+02	nc					1.1E+01	nc	2.0E+00	2.3E-01	4.3E-02
Epichlorohydrin	106-89-8	9.9E-03	I	1.2E-06	I	6.0E-03	P	1.0E-03	I	V		1		8.4E+03	1.8E+01	nc	7.7E+01	nc	1.0E+00	nc	4.4E+00	nc	2.1E+00	nc		4.3E-04	
Epoxybutane, 1,2-	106-88-7							2.0E-02	I	V		1		1.2E+04	1.5E+02	nc	6.4E+02	nc	2.1E+01	nc	8.8E+01	nc	4.2E+01	nc		8.7E-03	
EPTC	759-94-4					2.5E-02	I			V		1		6.2E+02	2.0E+03	sat	2.6E+04	nc					9.1E+02	nc		6.5E-01	
Ethephon	16672-87-0					5.0E-03	I					1	0.1		3.1E+02	nc	3.1E+03	nc					1.8E+02	nc		3.8E-02	
Ethion	563-12-2					5.0E-04	I					1	0.1		3.1E+01	nc	3.1E+02	nc					1.8E+01	nc		4.8E-01	
Ethoxyethanol Acetate, 2-	111-15-9					3.0E-01	H					1	0.1		1.8E+04	nc	1.8E+05	nc					1.1E+04	nc		2.2E+00	
Ethoxyethanol, 2-	110-80-5					4.0E-01	H	2.0E-01	I			1	0.1		2.4E+04	nc	2.5E+05	nc	2.1E+02	nc	8.8E+02	nc	1.5E+04	nc		2.9E+00	
Ethyl Acetate	141-78-6					9.0E-01	I			V		1		1.1E+04	7.0E+04	sat	9.2E+05	nc					3.3E+04	nc		7.0E+00	
Ethyl Acrylate	140-88-5	4.8E-02	H							V		1		2.6E+03	1.3E+01	ca	6.0E+01	ca					1.4E+00	ca		3.2E-04	
Ethyl Chloride	75-00-3							1.0E+01	I	V		1		2.2E+03	1.5E+04	sat	6.2E+04	nc	1.0E+04	nc	4.4E+04	nc	2.1E+04	nc		6.0E+00	
Ethyl Ether	60-29-7					2.0E-01	I			V		1		8.2E+03	1.6E+04	sat	2.0E+05	nc					7.3E+03	nc		1.6E+00	
Ethyl Methacrylate	97-63-2					9.0E-02	H			V		1		1.2E+03	7.0E+03	sat	9.2E+04	nc					3.3E+03	nc		7.9E-01	
Ethyl-p-nitrophenyl Phosphonate	2104-64-5					1.0E-05	I					1	0.1		6.1E-01	nc	6.2E+00	nc					3.7E-01	nc		8.7E-03	
Ethylbenzene	100-41-4	1.1E-02	C	2.5E-06	C	1.0E-01	I	1.0E+00	I	V		1		5.5E+02	5.7E+00	ca	2.9E+01	ca	9.7E-01	ca	4.9E+00	ca	1.5E+00	ca	7.0E+02	1.9E-03	8.9E-01
Ethylene Cyanohydrin	109-78-4					3.0E-02	P					1	0.1		1.8E+03	nc	1.8E+04	nc					1.1E+03	nc		2.2E-01	
Ethylene Diamine	107-15-3					9.0E-02	P					1	0.1		5.5E+03	nc	5.5E+04	nc					3.3E+03	nc		8.2E-01	
Ethylene Glycol	107-21-1					2.0E+00	I	4.0E-01	C			1	0.1		1.2E+05	nc	1.2E+06	nc	4.2E+02	nc	1.8E+03	nc	7.3E+04	nc		1.5E+01	
Ethylene Glycol Monobutyl Ether	111-76-2					5.0E-01	I	1.3E+01	I			1	0.1		3.1E+04	nc	3.1E+05	nc	1.4E+04	nc	5.7E+04	nc	1.8E+04	nc		3.7E+00	
Ethylene Oxide	75-21-8	3.1E-01	C	8.8E-05	C					V		1		1.1E+05	1.6E-01	ca	8.0E-01	ca	2.8E-02	ca	1.4E-01	ca	4.4E-02	ca		4.4E-05	
Ethylene Thiourea	96-45-7	4.5E-02	C	1.3E-05	C	8.0E-05	I					1	0.1		4.9E+00	nc	3.8E+01	ca**	1.9E-01	ca	9.4E-01	ca	1.5E+00	ca**		3.2E-04	
Ethylphthalyl Ethyl Glycolate	84-72-0					3.0E+00	I					1	0.1		1.8E+05	nc	1.8E+06	nc					1.1E+05	nc		3.0E+02	
Express	101200-48-0					8.0E-03	I					1	0.1		4.9E+02	nc	4.9E+03	nc					2.9E+02	nc		1.1E-01	
Fenamiphos	22224-92-6					2.5E-04	I					1	0.1		1.5E+01	nc	1.5E+02	nc					9.1E+00	nc		5.9E-03	
Fenpropathrin	39515-41-8					2.5E-02	I					1	0.1		1.5E+03	nc	1.5E+04	nc					9.1E+02	nc		5.4E+01	
Fluometuron	2164-17-2					1.3E-02	I					1	0.1		7.9E+02	nc	8.0E+03	nc					4.7E+02	nc		4.4E-01	
Fluorine (Soluble Fluoride)	7782-41-4					6.0E-02	I					1			4.7E+03	nc	6.1E+04	nc					2.2E+03	nc	4.0E+03		
Flundone	59756-60-4					8.0E-02	I					1	0.1		4.9E+03	nc	4.9E+04	nc					2.9E+03	nc		6.5E+02	
Flurprimidol	56425-91-3					2.0E-02	I					1	0.1		1.2E+03	nc	1.2E+04	nc					7.3E+02	nc		1.4E+00	
Flutolanil	66332-96-5					6.0E-02	I					1	0.1		3.7E+03	nc	3.7E+04	nc					2.2E+03	nc		2.4E+01	

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Contaminant		Toxicity and Chemical-specific Information													Screening Levels										Protection of Groundwater Soil Screening Levels	
Analyte	CAS No.	SFO (mg/kg-day)$^{-1}$	key	IUR (ug/m^3)$^{-1}$	key	RfDo (mg/kg-day)	key	RfCi (mg/m^3)	key	voc	muta-gen	RAGS Part E GIABS	RAGS Part E ABS	Csat mg/kg	Residential Soil mg/kg	key	Industrial Soil mg/kg	key	Residential Air ug/m^3	key	Industrial Air ug/m^3	key	Tapwater ug/L	key	MCL ug/L	Risk-based SSL mg/kg	MCL-based SSL mg/kg
Fluvalinate	69409-94-5					1.0E-02	I					1	0.1		6.1E+02	nc	6.2E+03	nc					3.7E+02	nc		5.3E+02	
Folpet	133-07-3	3.5E-03	I			1.0E-01	I					1	0.1		1.4E+02	ca*	4.9E+02	ca					1.9E+01	ca		9.4E-03	
Fomesafen	72178-02-0	1.9E-01	I									1	0.1		2.6E+00	ca	9.1E+00	ca					3.5E-01	ca		7.9E-03	
Fonofos	944-22-9					2.0E-03	I					1	0.1		1.2E+02	nc	1.2E+03	nc					7.3E+01	nc		1.4E-01	
Formaldehyde	50-00-0			1.3E-05	I	2.0E-01	I	9.8E-03	A			1	0.1		1.2E+04	nc	1.2E+05	nc	1.9E-01	ca*	9.4E-01	ca*	7.3E+03	nc		1.5E+00	
Formic Acid	64-18-6					2.0E+00	H					1	0.1		1.2E+05	nc	1.2E+06	nc					7.3E+04	nc		1.5E+01	
Fosetyl-AL	39148-24-8					3.0E+00	I					1	0.1		1.8E+05	nc	1.8E+06	nc					1.1E+05	nc			
Furans																											
Furan	110-00-9					1.0E-03	I			V		1		6.8E+03	7.8E+01	nc	1.0E+03	nc					3.7E+01	nc		1.5E-02	
HpCDF, 2,3,7,8-	38998-75-3	1.5E+03	W	3.3E-01	W							1	0.1		3.2E-04	ca	1.1E-03	ca	7.4E-06	ca	3.7E-05	ca	4.5E-05	ca		3.5E-05	
HxCDF, 2,3,7,8-	55684-94-1	1.5E+04	W	3.3E+00	W							1	0.1		3.2E-05	ca	1.1E-04	ca	7.4E-07	ca	3.7E-06	ca	4.5E-06	ca		2.1E-06	
OCDF	39001-02-0	4.5E+01	W	9.9E-03	W							1	0.1		1.1E-02	ca	3.8E-02	ca	2.5E-04	ca	1.2E-03	ca	1.5E-03	ca		2.0E-03	
PeCDF, 1,2,3,7,8-	57117-41-6	4.5E+03	W	9.9E-01	W							1	0.1		1.1E-04	ca	3.8E-04	ca	2.5E-06	ca	1.2E-05	ca	1.5E-05	ca		4.1E-06	
PeCDF, 2,3,4,7,8-	57117-31-4	4.5E+04	W	9.9E+00	W							1	0.1		1.1E-05	ca	3.8E-05	ca	2.5E-07	ca	1.2E-06	ca	1.5E-06	ca		4.1E-07	
TCDF, 2,3,7,8-	51207-31-9	1.5E+04	W	3.3E+00	W							1	0.1		3.2E-05	ca	1.1E-04	ca	7.4E-07	ca	3.7E-06	ca	4.5E-06	ca		7.3E-07	
Furazolidone	67-45-8	3.8E+00	H									1	0.1		1.3E-01	ca	4.5E-01	ca					1.8E-02	ca		3.3E-05	
Furfural	98-01-1					3.0E-03	I	5.0E-02	H			1	0.1		1.8E+02	nc	1.8E+03	nc	5.2E+01	nc	2.2E+02	nc	1.1E+02	nc		2.6E-02	
Furium	531-82-8	1.5E+00	C	4.3E-04	C							1	0.1		3.2E-01	ca	1.1E+00	ca	5.7E-03	ca	2.9E-02	ca	4.5E-02	ca		5.3E-05	
Furmecyclox	60568-05-0	3.0E-02	I									1	0.1		1.6E+01	ca	5.7E+01	ca					2.2E+00	ca		7.4E-03	
Glufosinate, Ammonium	77182-82-2					4.0E-04	I					1	0.1		2.4E+01	nc	2.5E+02	nc					1.5E+01	nc		4.7E-03	
Glycidyl	765-34-4					4.0E-04	I	1.0E-03	H			1	0.1		2.4E+01	nc	2.5E+02	nc	1.0E+00	nc	4.4E+00	nc	1.5E+01	nc		2.9E-03	
Glyphosate	1071-83-6					1.0E-01	I					1	0.1		6.1E+03	nc	6.2E+04	nc					3.7E+03	nc	7.0E+02	8.7E-01	1.7E-01
Goal	42874-03-3					3.0E-03	I					1	0.1		1.8E+02	nc	1.8E+03	nc					1.1E+02	nc		1.0E+01	
Haloxyfop, Methyl	69806-40-2					5.0E-05	I					1	0.1		3.1E+00	nc	3.1E+01	nc					1.8E+00	nc		6.5E-02	
Harmony	79277-27-3					1.3E-02	I					1	0.1		7.9E+02	nc	8.0E+03	nc					4.7E+02	nc		1.3E-01	
Heptachlor	76-44-8	4.5E+00	I	1.3E-03	I	5.0E-04	I					1	0.1		1.1E-01	ca	3.8E-01	ca	1.9E-03	ca	9.4E-03	ca	1.5E-02	ca	4.0E-01	1.6E-03	4.2E-02
Heptachlor Epoxide	1024-57-3	9.1E+00	I	2.6E-03	I	1.3E-05	I					1	0.1		5.3E-02	ca*	1.9E-01	ca*	9.4E-04	ca	4.7E-03	ca	7.4E-03	ca*	2.0E-01	7.9E-05	2.1E-03
Hexabromobenzene	87-82-1					2.0E-03	I					1	0.1		1.2E+02	nc	1.2E+03	nc					7.3E+01	nc		5.1E-01	
Hexachlorobenzene	118-74-1	1.6E+00	I	4.6E-04	I	8.0E-04	I					1	0.1		3.0E-01	ca	1.1E+00	ca	5.3E-03	ca	2.7E-02	ca	4.2E-02	ca	1.0E+00	2.9E-04	7.0E-03
Hexachlorobutadiene	87-68-3	7.8E-02	I	2.2E-05	I	1.0E-03	P					1	0.1		6.2E+00	ca**	2.2E+01	ca*	1.1E-01	ca	5.6E-01	ca	8.6E-01	ca*		1.9E-03	
Hexachlorocyclohexane, Alpha-	319-84-6	6.3E+00	I	1.8E-03	I							1	0.1		7.7E-02	ca	2.7E-01	ca	1.4E-03	ca	6.8E-03	ca	1.1E-02	ca		7.4E-05	
Hexachlorocyclohexane, Beta-	319-85-7	1.8E+00	I	5.3E-04	I							1	0.1		2.7E-01	ca	9.6E-01	ca	4.6E-03	ca	2.3E-02	ca	3.7E-02	ca		2.6E-04	
Hexachlorocyclohexane, Gamma- (Lindane)	58-89-9	1.1E+00	C	3.1E-04	C	3.0E-04	I					1	0.04		5.2E-01	ca*	2.1E+00	ca	7.8E-03	ca	4.0E-02	ca	6.1E-02	ca	2.0E-01	4.3E-04	1.4E-03
Hexachlorocyclohexane, Technical	608-73-1	1.8E+00	I	5.1E-04	I							1	0.1		2.7E-01	ca	9.6E-01	ca	4.8E-03	ca	2.4E-02	ca	3.7E-02	ca		2.6E-04	
Hexachlorocyclopentadiene	77-47-4					6.0E-03	I	2.0E-04	I			1	0.1		3.7E+02	nc	3.7E+03	nc	2.1E-01	nc	8.8E-01	nc	2.2E+02	nc	5.0E+01	8.0E-01	1.8E-01
Hexachloroethane	67-72-1	1.4E-02	I	4.0E-06	I	1.0E-03	I					1	0.1		3.5E+01	ca**	1.2E+02	ca**	6.1E-01	ca	3.1E+00	ca	4.8E+00	ca**		3.2E-03	
Hexachlorophene	70-30-4					3.0E-04	I					1	0.1		1.8E+01	nc	1.8E+02	nc					1.1E+01	nc		1.4E+01	
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	1.1E-01	I			3.0E-03	I					1	0.1		4.4E+00	ca*	1.6E+01	ca					6.1E-01	ca		3.6E-04	
Hexamethylene Diisocyanate, 1,6-	822-06-0							1.0E-05	I	V		1		4.1E+03	3.7E+00	nc	1.6E+01	nc	1.0E-02	nc	4.4E-02	nc	2.1E-02	nc		2.5E-04	
Hexane, N-	110-54-3					6.0E-02	H	7.0E-01	I	V		1		1.4E+02	5.7E+02	sat	2.6E+03	nc	7.3E+02	nc	3.1E+03	nc	8.8E+02	nc		6.2E+00	
Hexanedioic Acid	124-04-9					2.0E+00	P					1	0.1		1.2E+05	nc	1.2E+06	nc					7.3E+04	nc		1.8E+01	
Hexazinone	51235-04-2					3.3E-02	I					1	0.1		2.0E+03	nc	2.0E+04	nc					1.2E+03	nc		1.7E+00	
Hydrazine	302-01-2	3.0E+00	I	4.9E-03	I			2.0E-04	C			1			2.1E-01	ca	9.5E-01	ca	5.0E-04	ca	2.5E-03	ca	2.2E-02	ca			
Hydrazine Sulfate	10034-93-2	3.0E+00	I	4.9E-03	I							1			2.1E-01	ca	9.5E-01	ca	5.0E-04	ca	2.5E-03	ca	2.2E-02	ca			
Hydrogen Chloride	7647-01-0							2.0E-02	I			1			2.8E+07	nc	1.2E+08	nc	2.1E+01	nc	8.8E+01	nc					
Hydrogen Sulfide	6/4/7783					3.0E-03	I	2.0E-03	I			1			2.3E+02	nc	3.1E+03	nc	2.1E+00	nc	8.8E+00	nc	1.1E+02	nc			
Imazalil	35554-44-0					1.3E-02	I					1	0.1		7.9E+02	nc	8.0E+03	nc					4.7E+02	nc		1.9E+00	
Imazaquin	81335-37-7					2.5E-01	I					1	0.1		1.5E+04	nc	1.5E+05	nc					9.1E+03	nc		9.2E+01	
Iprodione	36734-19-7					4.0E-02	I					1	0.1		2.4E+03	nc	2.5E+04	nc					1.5E+03	nc		7.0E-01	
Iron	7439-89-6					7.0E-01	P					1			5.5E+04	nc	7.2E+05	nc					2.6E+04	nc			
Isobutyl Alcohol	78-83-1					3.0E-01	I			V		1		9.6E+03	2.3E+04	sat	3.1E+05	nc					1.1E+04	nc		2.2E+00	
Isophorone	78-59-1	9.5E-04	I			2.0E-01	I	2.0E+00	C			1	0.1		5.1E+02	ca*	1.8E+03	ca*	2.1E+03	nc	8.8E+03	nc	7.1E+01	ca		2.2E-02	
Isopropalin	33820-53-0					1.5E-02	I					1	0.1		9.2E+02	nc	9.2E+03	nc					5.5E+02	nc		7.4E+00	
Isopropyl Methyl Phosphonic Acid	1832-54-8					1.0E-01	I					1	0.1		6.1E+03	nc	6.2E+04	nc					3.7E+03	nc		7.7E-01	
Isoxaben	82558-50-7					5.0E-02	I					1	0.1		3.1E+03	nc	3.1E+04	nc					1.8E+03	nc		1.1E+01	
Kerb	23950-58-5					7.5E-02	I					1	0.1		4.6E+03	nc	4.6E+04	nc					2.7E+03	nc		9.2E+00	
Lactofen	77501-63-4					2.0E-03	I					1	0.1		1.2E+02	nc	1.2E+03	nc					7.3E+01	nc		3.7E+00	
Lead Compounds																											
Lead and Compounds	7439-92-1											1			4.0E+02	nc									1.5E+01		
Tetraethyl Lead	78-00-2					1.0E-07	I					1	0.1		6.1E-03	nc	6.2E-02	nc					3.7E-03	nc		1.4E-05	
Linuron	330-55-2					2.0E-03	I					1	0.1		1.2E+02	nc	1.2E+03	nc					7.3E+01	nc		6.6E-02	
Lithium Perchlorate	3/9/7791					7.0E-04	I					1			5.5E+01	nc	7.2E+02	nc					2.6E+01	nc			
Londax	83055-99-6					2.0E-01	I					1	0.1		1.2E+04	nc	1.2E+05	nc					7.3E+03	nc		1.9E+00	
Malathion	121-75-5					2.0E-02	I					1	0.1		1.2E+03	nc	1.2E+04	nc					7.3E+02	nc		1.9E-01	
Maleic Anhydride	108-31-6					1.0E-01	I	7.0E-04	C			1	0.1		6.1E+03	nc	6.1E+04	nc	7.3E-01	nc	3.1E+00	nc	3.7E+03	nc		7.4E-01	
Maleic Hydrazide	123-33-1					5.0E-01	I					1	0.1		3.1E+04	nc	3.1E+05	nc					1.8E+04	nc		4.0E+00	
Malononitrile	109-77-3					1.0E-04	P					1	0.1		6.1E+00	nc	6.2E+01	nc					3.7E+00	nc		8.4E-04	
Mancozeb	1/7/8018					3.0E-02	H					1	0.1		1.8E+03	nc	1.8E+04	nc					1.1E+03	nc		2.4E-01	
Maneb	12427-38-2					5.0E-03	I					1	0.1		3.1E+02	nc	3.1E+03	nc					1.8E+02	nc		4.0E-02	
Manganese (Diet)	7439-96-5					1.4E-01	I	5.0E-05	I			1															
Manganese (Water)	7439-96-5					2.4E-02	I	5.0E-05	I			0.04			1.8E+03	nc	2.3E+04	nc	5.2E-02	nc	2.2E-01	nc	8.8E+02	nc			
MCPA	94-74-6					5.0E-04	I					1	0.1		3.1E+01	nc	3.1E+02	nc					1.8E+01	nc		4.7E-03	

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Contaminant		Toxicity and Chemical-specific Information												Screening Levels										Protection of Groundwater Soil Screening Levels	
Analyte	CAS No.	SFO (mg/kg-day)$^{-1}$	key	IUR (ug/m^3)$^{-1}$	key	RfDo (mg/kg-day)	key	RfCi (mg/m^3)	key	mutagen	RAGS Part E GIABS	RAGS Part E ABS	Csat mg/kg	Residential Soil mg/kg	key	Industrial Soil mg/kg	key	Residential Air ug/m^3	key	Industrial Air ug/m^3	key	Tapwater ug/L	key	MCL ug/L	Risk-based SSL mg/kg	MCL-based SSL mg/kg
MCPB	94-81-5					1.0E-02	I				1	0.1		6.1E+02	nc	6.2E+03	nc					3.7E+02	nc		1.5E-01	
MCPP	93-65-2					1.0E-03	I				1	0.1		6.1E+01	nc	6.2E+02	nc					3.7E+01	nc		1.1E-02	
Mephosfolan	950-10-7					9.0E-05	H				1	0.1		5.5E+00	nc	5.5E+01	nc					3.3E+00	nc		3.9E-03	
Mepiquat Chloride	24307-26-4					3.0E-02	I				1	0.1		1.8E+03	nc	1.8E+04	nc					1.1E+03	nc		6.0E-01	
Mercury Compounds																										
Mercuric Chloride	7487-94-7					3.0E-04	I				0.07			2.3E+01	nc	3.1E+02	nc					1.1E+01	nc			
Mercuric Sulfide	1344-48-5					3.0E-04	S				1			2.3E+01	nc	3.1E+02	nc					1.1E+01	nc			
Mercury (elemental)	7439-97-6							3.0E-04	I	V	1		3.1E+00	6.7E+00	sat	2.8E+01	nc	3.1E-01	nc	1.3E+00	nc	6.3E-01	nc	2.0E+00	3.3E-02	1.0E-01
Mercury, Inorganic Salts	NA					3.0E-04	I				0.07			2.3E+01	nc	3.1E+02	nc					1.1E+01	nc			
Methyl Mercury	22967-92-6					1.0E-04	I				1			7.8E+00	nc	1.0E+02	nc					3.7E+00	nc			
Phenylmercuric Acetate	62-38-4					8.0E-05	I				1	0.1		4.9E+00	nc	4.9E+01	nc					2.9E+00	nc		1.6E-03	
Merphos	150-50-5					3.0E-05	I				1	0.1		1.8E+00	nc	1.8E+01	nc					1.1E+00	nc		1.4E-01	
Merphos Oxide	78-48-8					3.0E-05	I				1	0.1		1.8E+00	nc	1.8E+01	nc					1.1E+00	nc		4.4E-03	
Metalaxyl	57837-19-1					6.0E-02	I				1	0.1		3.7E+03	nc	3.7E+04	nc					2.2E+03	nc		5.4E-01	
Methacrylonitrile	126-98-7					1.0E-04	I	7.0E-04	H	V	1		4.5E+03	3.2E+00	nc	1.8E+01	nc	7.3E-01	nc	3.1E+00	nc	1.0E+00	nc		2.4E-04	
Methamidophos	10265-92-6					5.0E-05	I				1	0.1		3.1E+00	nc	3.1E+01	nc					1.8E+00	nc		3.8E-04	
Methanol	67-56-1					5.0E-01	I	4.0E+00	C		1	0.1		3.1E+04	nc	3.1E+05	nc	4.2E+03	nc	1.8E+04	nc	1.8E+04	nc		3.7E+00	
Methidathion	950-37-8					1.0E-03	I				1	0.1		6.1E+01	nc	6.2E+02	nc					3.7E+01	nc		8.0E-03	
Methomyl	16752-77-5					2.5E-02	I				1	0.1		1.5E+03	nc	1.5E+04	nc					9.1E+02	nc		2.0E-01	
Methoxy-5-nitroaniline, 2-	99-59-2	4.9E-02	C	1.4E-05	C						1	0.1		9.9E+00	ca	3.5E+01	ca	1.7E-01	ca	8.8E-01	ca	1.4E+00	ca		3.8E-04	
Methoxychlor	72-43-5					5.0E-03	I				1	0.1		3.1E+02	nc	3.1E+03	nc					1.8E+02	nc	4.0E+01	1.6E+01	3.4E+00
Methoxyethanol Acetate, 2-	110-49-6					2.0E-03	H				1	0.1		1.2E+02	nc	1.2E+03	nc					7.3E+01	nc		1.5E-02	
Methoxyethanol, 2-	109-86-4							2.0E-02	I		1	0.1		2.8E+07	nc	1.2E+08	nc	2.1E+01	nc	8.8E+01	nc					
Methyl Acetate	79-20-9					1.0E+00	H			V	1		2.9E+04	7.8E+04	sat	1.0E+06	nc					3.7E+04	nc		7.6E+00	
Methyl Acrylate	96-33-3					3.0E-02	H			V	1		6.9E+03	2.3E+03	nc	3.1E+04	nc					1.1E+03	nc		2.3E-01	
Methyl Ethyl Ketone (2-Butanone)	78-93-3					6.0E-01	I	5.0E+00	I	V	1		2.8E+04	2.8E+04	sat	1.9E+05	nc	5.2E+03	nc	2.2E+04	nc	7.1E+03	nc		1.5E+00	
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	108-10-1					8.0E-02	H	3.0E+00	I	V	1		3.2E+03	5.3E+03	sat	5.2E+04	nc	3.1E+03	nc	1.3E+04	nc	2.0E+03	nc		4.4E-01	
Methyl Methacrylate	80-62-6					1.4E+00	I	7.0E-01	I	V	1		2.5E+03	4.7E+03	sat	2.0E+04	nc	7.3E+02	nc	3.1E+03	nc	1.4E+03	nc		3.1E-01	
Methyl Parathion	298-00-0					2.5E-04	I				1	0.1		1.5E+01	nc	1.5E+02	nc					9.1E+00	nc		1.1E-02	
Methyl Styrene (Mixed Isomers)	25013-15-4					6.0E-03	H	4.0E-02	H	V	1		4.5E+02	1.9E+02	nc	1.1E+03	nc	4.2E+01	nc	1.8E+02	nc	6.0E+01	nc		1.1E-01	
Methyl tert-Butyl Ether (MTBE)	1634-04-4	1.8E-03	C	2.6E-07	C			3.0E+00	I	V	1		6.9E+03	3.9E+01	ca	1.9E+02	ca	9.4E+00	ca	4.7E+01	ca	1.2E+01	ca		2.7E-03	
Methyl-5-Nitroaniline, 2-	99-55-8	3.3E-02	H								1	0.1		1.5E+01	ca	5.2E+01	ca					2.0E+00	ca		7.6E-04	
Methylaniline Hydrochloride, 2-	636-21-5	1.3E-01	C	3.7E-05	C						1	0.1		3.7E+00	ca	1.3E+01	ca	6.6E-02	ca	3.3E-01	ca	5.2E-01	ca		1.8E-04	
Methylarsonic acid	124-58-3					1.0E-02	A			A	1	0.1		6.1E+02	nc	6.2E+03	nc					3.7E+02	nc			
Methylcyclohexane	108-87-2							3.0E+00	H	V	1		7.1E+01	3.4E+03	sat	1.4E+04	nc	3.1E+03	nc	1.3E+04	nc	6.3E+03	nc		1.4E+01	
Methylene Chloride	75-09-2	7.5E-03	I	4.7E-07	I	6.0E-02	I	1.1E+00	A	V	1		3.5E+03	1.1E+01	ca	5.4E+01	ca	5.2E+00	ca	2.6E+01	ca	4.8E+00	ca	5.0E+00	1.2E-03	1.3E-03
Methylene-bis(2-chloroaniline), 4,4'-	101-14-4	1.0E-01	P	4.3E-10	C	2.0E-03	P			M	1	0.1		1.2E+00	ca	1.7E+01	ca*	2.2E+03	ca	2.9E+04	ca	2.2E-01	ca		5.9E-03	
Methylene-bis(N,N-dimethyl) Aniline, 4,4'-	101-61-1	4.6E-02	I								1	0.1		1.1E+01	ca	3.7E+01	ca					1.5E+00	ca		4.3E-02	
Methylenebisbenzenamine, 4,4'-	101-77-9	1.6E+00	C	4.6E-04	C						1	0.1		3.0E-01	ca	1.1E+00	ca	5.3E-03	ca	2.7E-02	ca	4.2E-02	ca		4.2E-04	
Methylenediphenyl Diisocyanate	101-68-8							6.0E-04	I		1	0.1		8.5E+05	nc	3.6E+06	nc	6.3E-01	nc	2.6E+00	nc					
Methylstyrene, Alpha-	98-83-9					7.0E-02	H			V	1		4.5E+02	5.5E+03	sat	7.2E+04	nc					2.6E+03	nc		4.7E+00	
Metolachlor	51218-45-2					1.5E-01	I				1	0.1		9.2E+03	nc	9.2E+04	nc					5.5E+03	nc		4.3E+00	
Metribuzin	21087-64-9					2.5E-02	I				1	0.1		1.5E+03	nc	1.5E+04	nc					9.1E+02	nc		2.4E+00	
Mirex	2385-85-5	1.8E+01	C	5.1E-03	C	2.0E-04	I				1	0.1		2.7E-02	ca	9.6E-02	ca	4.8E-04	ca	2.4E-03	ca	3.7E-03	ca		3.5E-03	
Molinate	2212-67-1					2.0E-03	I				1	0.1		1.2E+02	nc	1.2E+03	nc					7.3E+01	nc		5.6E-02	
Molybdenum	7439-98-7					5.0E-03	I				1			3.9E+02	nc	5.1E+03	nc					1.8E+02	nc			
Monochloramine	10599-90-3					1.0E-01	I				1			7.8E+03	nc	1.0E+05	nc					3.7E+03	nc			
Monochlorobutanes	25154-42-1					4.0E-01	H				1	0.1		2.4E+04	nc	2.5E+05	nc					1.5E+04	nc			
Monomethylaniline	100-61-8		P			2.0E-03	P				1	0.1		1.2E+02	nc	1.2E+03	nc					7.3E+01	nc		2.4E-02	
N,N'-Diphenyl-1,4-benzenediamine	74-31-7					3.0E-04	P				1	0.1		1.8E+01	nc	1.8E+02	nc					1.1E+01	nc		2.8E+00	
Naled	300-76-5					2.0E-03	I				1	0.1		1.2E+02	nc	1.2E+03	nc					7.3E+01	nc		2.9E-02	
Napropamide	15299-99-7					1.0E-01	I				1	0.1		6.1E+03	nc	6.2E+04	nc					3.7E+03	nc		8.5E+01	
Nickel Refinery Dust	NA			2.4E-04	I						0.04			1.4E+04	ca	6.9E+04	ca	1.0E-02	ca	5.1E-02	ca					
Nickel Soluble Salts	7440-02-0					2.0E-02	I				0.04			1.6E+03	nc	2.0E+04	nc					7.3E+02	nc			
Nickel Subsulfide	12035-72-2			4.8E-04	I						0.04			6.9E+03	ca	3.5E+04	ca	5.1E-03	ca	2.6E-02	ca					
Nitrate	14797-55-8					1.6E+00	I				1			1.3E+05	nc	1.6E+06	nc					5.8E+04	nc	1.0E+04		
Nitrite	14797-65-0					1.0E-01	I				1			7.8E+03	nc	1.0E+05	nc					3.7E+03	nc	1.0E+03		
Nitrobenzene	98-95-3					5.0E-04	I	2.0E-03	H	V	1		2.6E+03	3.1E+01	nc	2.8E+02	nc	2.1E+00	nc	8.8E+00	nc	3.4E+00	nc		2.0E-03	
Nitrofurantoin	67-20-9					7.0E-02	H				1	0.1		4.3E+03	nc	4.3E+04	nc					2.6E+03	nc		1.9E+00	
Nitrofurazone	59-87-0	1.3E+00	C	3.7E-04	C						1	0.1		3.7E-01	ca	1.3E+00	ca	6.6E-03	ca	3.3E-02	ca	5.2E-02	ca		4.9E-05	
Nitroglycerin	55-63-0	1.7E-02	P			1.0E-04	P				1	0.1		6.1E+00	nc	6.2E+01	nc					3.7E+00	nc		1.7E-03	
Nitroguanidine	556-88-7					1.0E-01	I				1	0.1		6.1E+03	nc	6.2E+04	nc					3.7E+03	nc		9.2E-01	
Nitromethane	75-52-5			9.0E-06	P			2.0E-02	P	V	1		1.7E+04	4.7E+00	ca*	2.4E+01	ca*	2.7E-01	ca*	1.4E+00	ca*	5.4E-01	ca*		1.2E-04	
Nitropropane, 2-	79-46-9			2.7E-03	H			2.0E-02	I	V	1		4.3E+03	1.2E-02	ca	6.0E-02	ca	9.0E-04	ca	4.5E-03	ca	1.8E-03	ca		4.5E-07	
Nitroso-di-N-butylamine, N-	924-16-3	5.4E+00	I	1.6E-03	I					V	1		1.3E+04	9.3E-02	ca	4.3E-01	ca	1.5E-03	ca	7.7E-03	ca	2.4E-03	ca		8.6E-06	
Nitroso-di-N-propylamine, N-	621-64-7	7.0E+00	I								1	0.1		6.9E-02	ca	2.5E-01	ca					9.6E-03	ca		1.1E-05	
Nitroso-N-ethylurea, N-	759-73-9	2.7E+01	C	7.7E-03	C					M	1	0.1		4.3E-03	ca	6.4E-02	ca	1.2E-04	ca	1.6E-03	ca	8.0E-04	ca		2.2E-07	
Nitrosodiethanolamine, N-	1116-54-7	2.8E+00	I								1	0.1		1.7E-01	ca	6.2E-01	ca					2.4E-02	ca		4.9E-06	
Nitrosodiethylamine, N-	55-18-5	1.5E+02	I	4.3E-02	I					M	1	0.1		7.7E-04	ca	1.1E-02	ca	2.2E-05	ca	2.9E-04	ca	1.4E-04	ca		7.0E-08	
Nitrosodimethylamine, N-	62-75-9	5.1E+01	I	1.4E-02	I	8.0E-06	P			M	1	0.1		2.3E-03	ca	3.4E-02	ca	6.9E-05	ca	8.8E-04	ca	4.2E-04	ca		1.2E-07	
Nitrosodiphenylamine, N-	86-30-6	4.9E-03	I								1	0.1		9.9E+01	ca	3.5E+02	ca					1.4E+01	ca		1.7E-01	
Nitrosomethylethylamine, N-	10595-95-6	2.2E+01	I								1	0.1		2.2E-02	ca	7.8E-02	ca					3.1E-03	ca		1.1E-06	

Key: I = IRIS; P = PPRTV; A = ATSDR; C = Cal EPA; H = HEAST; W = WHO; S = see user guide Section 5; L = see user guide on lead; M = mutagen; V= volatile; ca = cancer; ca* = where: nc SL < 100X ca SL; ca** = where nc SL < 10X ca SL; nc = noncancer; max=Concentration may exceed ceiling limit (See User's Guide); sat=Concentration may exceed Csat (See User's Guide); SSL values are bsed on DAF=1

Contaminant		Toxicity and Chemical-specific Information													Screening Levels										Protection of Groundwater Soil Screening Levels	
Analyte	CAS No.	SFO (mg/kg-day)$^{-1}$	key	IUR (ug/m^3)$^{-1}$	key	RfDo (mg/kg-day)	key	RfCi (mg/m^3)	key	vol	muta-gen	RAGS Part E GIABS	RAGS Part E ABS	Csat mg/kg	Residential Soil mg/kg	key	Industrial Soil mg/kg	key	Residential Air ug/m^3	key	Industrial Air ug/m^3	key	Tapwater ug/L	key	MCL ug/L	Risk-based SSL mg/kg	MCL-based SSL mg/kg
Nitrosopyrrolidine, N-	930-55-2	2.1E+00	I	6.1E-04	I							1	0.1		2.3E-01	ca	8.2E-01	ca	4.0E-03	ca	2.0E-02	ca	3.2E-02	ca		1.7E-05	
Nitrotoluene, o-	88-72-2					1.0E-02	H			V		1		1.3E+03	7.8E+02	nc	1.0E+04	nc					3.7E+02	nc		3.0E-01	
Nitrotoluene, p-	99-99-0	1.6E-02	P			4.0E-03	P					1	0.1		3.0E+01	ca**	1.1E+02	ca*					4.2E+00	ca*		3.4E-03	
Norflurazon	27314-13-2					4.0E-02	I					1	0.1		2.4E+03	nc	2.5E+04	nc					1.5E+03	nc		1.7E+01	
Nustar	85509-19-9					7.0E-04	I					1	0.1		4.3E+01	nc	4.3E+02	nc					2.6E+01	nc		9.0E+01	
Octabromodiphenyl Ether	32536-52-0					3.0E-03	I					1	0.1		1.8E+02	nc	1.8E+03	nc					1.1E+02	nc		3.1E+01	
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetra (HMX)	2691-41-0					5.0E-02	I					1	0.1		3.1E+03	nc	3.1E+04	nc					1.8E+03	nc		7.1E+00	
Octamethylpyrophosphoramide	152-16-9					2.0E-03	H					1	0.1		1.2E+02	nc	1.2E+03	nc					7.3E+01	nc		1.3E-01	
Oryzalin	19044-88-3					5.0E-02	I					1	0.1		3.1E+03	nc	3.1E+04	nc					1.8E+03	nc		4.8E+00	
Oxadiazon	19666-30-9					5.0E-03	I					1	0.1		3.1E+02	nc	3.1E+03	nc					1.8E+02	nc		1.3E+00	
Oxamyl	23135-22-0					2.5E-02	I					1	0.1		1.5E+03	nc	1.5E+04	nc					9.1E+02	nc	2.0E+02	2.0E-01	4.4E-02
Paclobutrazol	76738-62-0					1.3E-02	I					1	0.1		7.9E+02	nc	8.0E+03	nc					4.7E+02	nc		1.2E+01	
Polynuclear Aromatic Hydrocarbons (PAHs)																											
Acenaphthene	83-32-9					6.0E-02	I			V		1	0.13		3.4E+03	nc	3.3E+04	nc					2.2E+03	nc		2.7E+01	
Anthracene	120-12-7					3.0E-01	I			V		1	0.13		1.7E+04	nc	1.7E+05	nc					1.1E+04	nc		4.5E+02	
Benz[a]anthracene	56-55-3	7.3E-01	*	1.1E-04	C						M	1	0.13		1.5E-01	ca	2.1E+00	ca	8.7E-03	ca	1.1E-01	ca	2.9E-02	ca		1.4E-02	
Benzo[a]pyrene	50-32-8	7.3E+00	I	1.1E-03	C						M	1	0.13		1.5E-02	ca	2.1E-01	ca	8.7E-04	ca	1.1E-02	ca	2.9E-03	ca	2.0E-01	4.6E-03	3.1E-01
Benzo[b]fluoranthene	205-99-2	7.3E-01	*	1.1E-04	C						M	1	0.13		1.5E-01	ca	2.1E+00	ca	8.7E-03	ca	1.1E-01	ca	2.9E-02	ca		4.7E-02	
Benzo[k]fluoranthene	207-08-9	7.3E-02	*	1.1E-04	C						M	1	0.13		1.5E+00	ca	2.1E+01	ca	8.7E-03	ca	1.1E-01	ca	2.9E-01	ca		4.6E-01	
Chrysene	218-01-9	7.3E-03	*	1.1E-05	C						M	1	0.13		1.5E+01	ca	2.1E+02	ca	8.7E-02	ca	1.1E+00	ca	2.9E+00	ca		1.4E+00	
Dibenz[a,h]anthracene	53-70-3	7.3E+00	*	1.2E-03	C						M	1	0.13		1.5E-02	ca	2.1E-01	ca	8.0E-04	ca	1.0E-02	ca	2.9E-03	ca		1.5E-02	
Fluoranthene	206-44-0					4.0E-02	I					1	0.13		2.3E+03	nc	2.2E+04	nc					1.5E+03	nc		2.1E+02	
Fluorene	86-73-7					4.0E-02	I			V		1	0.13		2.3E+03	nc	2.2E+04	nc					1.5E+03	nc		3.3E+01	
Indeno[1,2,3-cd]pyrene	193-39-5	7.3E-01	*	1.1E-04	C						M	1	0.13		1.5E-01	ca	2.1E+00	ca	8.7E-03	ca	1.1E-01	ca	2.9E-02	ca		1.6E-01	
Methylnaphthalene, 1-	90-12-0	2.9E-02	P			7.0E-03	P			V		1		4.6E+02	2.2E+01	ca*	9.9E+01	ca*					2.3E+00	ca		1.5E-02	
Methylnaphthalene, 2-	91-57-6					4.0E-03	I			V		1		4.4E+02	3.1E+02	nc	4.1E+03	nc					1.5E+02	nc		9.0E-01	
Naphthalene	91-20-3					2.0E-02	I	3.0E-03	I	V		1	0.13		1.5E+02	nc	6.7E+02	nc	3.1E+00	nc	1.3E+01	nc	6.2E+00	nc		2.4E-02	
Pyrene	129-00-0					3.0E-02	I			V		1	0.13		1.7E+03	nc	1.7E+04	nc					1.1E+03	nc		1.5E+02	
Paraquat Dichloride	1910-42-5					4.5E-03	I					1	0.1		2.7E+02	nc	2.8E+03	nc					1.6E+02	nc		4.9E-01	
Parathion	56-38-2					6.0E-03	H					1	0.1		3.7E+02	nc	3.7E+03	nc					2.2E+02	nc		8.2E-01	
Polychlorinated Biphenyls (PCBs)																											
Aroclor 1016	12674-11-2	7.0E-02	I	2.0E-05	I	7.0E-05	I					1	0.14		3.9E+00	nc	2.1E+01	ca**	1.2E-01	ca	6.1E-01	ca	9.6E-01	ca**		5.2E-02	
Aroclor 1221	11104-28-2	2.0E+00	I	5.7E-04	I					V		1	0.14	3.0E+02	1.7E-01	ca	6.2E-01	ca	4.3E-03	ca	2.1E-02	ca	6.8E-03	ca		1.4E-04	
Aroclor 1232	11141-16-5	2.0E+00	I	5.7E-04	I					V		1	0.14	3.0E+02	1.7E-01	ca	6.2E-01	ca	4.3E-03	ca	2.1E-02	ca	6.8E-03	ca		1.4E-04	
Aroclor 1242	53469-21-9	2.0E+00	I	5.7E-04	I							1	0.14		2.2E-01	ca	7.4E-01	ca	4.3E-03	ca	2.1E-02	ca	3.4E-02	ca		3.0E-03	
Aroclor 1248	12672-29-6	2.0E+00	I	5.7E-04	I							1	0.14		2.2E-01	ca	7.4E-01	ca	4.3E-03	ca	2.1E-02	ca	3.4E-02	ca		3.0E-03	
Aroclor 1254	11097-69-1	2.0E+00	I	5.7E-04	I	2.0E-05	I					1	0.14		2.2E-01	ca**	7.4E-01	ca*	4.3E-03	ca	2.1E-02	ca	3.4E-02	ca*		5.1E-03	
Aroclor 1260	11096-82-5	2.0E+00	I	5.7E-04	I							1	0.14		2.2E-01	ca	7.4E-01	ca	4.3E-03	ca	2.1E-02	ca	3.4E-02	ca		1.4E-02	
Heptachlorobiphenyl, 2,2',3,3',4,4',5- (PCB 170)	35065-30-6	1.5E+01	W	3.3E-03	W							1	0.14		3.0E-02	ca	9.9E-02	ca	7.4E-04	ca	3.7E-03	ca	4.5E-03	ca		1.9E-03	
Heptachlorobiphenyl, 2,2',3,4,4',5,5'- (PCB 180)	35065-29-3	1.5E+00	W	3.3E-04	W							1	0.14		3.0E-01	ca	9.9E-01	ca	7.4E-03	ca	3.7E-02	ca	4.5E-02	ca		1.9E-02	
Heptachlorobiphenyl, 2,3,3',4,4',5,5'- (PCB 189)	39635-31-9	4.5E+00	W	9.9E-04	W							1	0.14		9.8E-02	ca	3.3E-01	ca	2.5E-03	ca	1.2E-02	ca	1.5E-02	ca		6.2E-03	
Hexachlorobiphenyl, 2,3',4,4',5,5'- (PCB 167)	52663-72-6	4.5E+00	W	9.9E-04	W							1	0.14		9.8E-02	ca	3.3E-01	ca	2.5E-03	ca	1.2E-02	ca	1.5E-02	ca		3.7E-03	
Hexachlorobiphenyl, 2,3,3',4,4',5'- (PCB 157)	69782-90-7	4.5E+00	W	9.9E-04	W							1	0.14		9.8E-02	ca	3.3E-01	ca	2.5E-03	ca	1.2E-02	ca	1.5E-02	ca		3.7E-03	
Hexachlorobiphenyl, 2,3,3',4,4',5- (PCB 156)	38380-08-4	4.5E+00	W	9.9E-04	W							1	0.14		9.8E-02	ca	3.3E-01	ca	2.5E-03	ca	1.2E-02	ca	1.5E-02	ca		3.7E-03	
Hexachlorobiphenyl, 3,3',4,4',5,5'- (PCB 169)	32774-16-6	4.5E+03	W	9.9E-01	W							1	0.14		9.8E-05	ca	3.3E-04	ca	2.5E-06	ca	1.2E-05	ca	1.5E-05	ca		3.7E-06	
Pentachlorobiphenyl, 2',3,4,4',5- (PCB 123)	65510-44-3	4.5E+00	W	9.9E-04	W							1	0.14		9.8E-02	ca	3.3E-01	ca	2.5E-03	ca	1.2E-02	ca	1.5E-02	ca		2.3E-03	
Pentachlorobiphenyl, 2,3',4,4',5- (PCB 118)	31508-00-6	4.5E+00	W	9.9E-04	W							1	0.14		9.8E-02	ca	3.3E-01	ca	2.5E-03	ca	1.2E-02	ca	1.5E-02	ca		2.2E-03	
Pentachlorobiphenyl, 2,3,3',4,4'- (PCB 105)	32598-14-4	4.5E+00	W	9.9E-04	W							1	0.14		9.8E-02	ca	3.3E-01	ca	2.5E-03	ca	1.2E-02	ca	1.5E-02	ca		2.3E-03	
Pentachlorobiphenyl, 2,3,4,4',5- (PCB 114)	74472-37-0	4.5E+00	W	9.9E-04	W							1	0.14		9.8E-02	ca	3.3E-01	ca	2.5E-03	ca	1.2E-02	ca	1.5E-02	ca		2.3E-03	
Pentachlorobiphenyl, 3,3',4,4',5- (PCB 126)	57465-28-8	1.5E+04	W	3.3E+00	W							1	0.14		3.0E-05	ca	9.9E-05	ca	7.4E-07	ca	3.7E-06	ca	4.5E-06	ca		6.7E-07	
Polychlorinated Biphenyls (high risk)	1336-36-3	2.0E+00	I	5.7E-04	C							1	0.1		2.4E-01	ca	8.6E-01	ca	4.3E-03	ca	2.2E-02	ca					
Polychlorinated Biphenyls (low risk)	1336-36-3	4.0E-01	I	1.0E-04	I							1	0.1						2.4E-02	ca	1.2E-01	ca	1.7E-01	ca	5.0E-01	1.5E-02	4.5E-02
Polychlorinated Biphenyls (lowest risk)	1336-36-3	7.0E-02	I									1	0.1														
Tetrachlorobiphenyl, 3,3',4,4'- (PCB 77)	32598-13-3	1.5E+01	W	3.3E-03	W							1	0.14		3.0E-02	ca	9.9E-02	ca	7.4E-04	ca	3.7E-03	ca	4.5E-03	ca		4.0E-04	
Tetrachlorobiphenyl, 3,4,4',5- (PCB 81)	70362-50-4	4.5E+01	W	9.9E-03	W							1	0.14		9.8E-03	ca	3.3E-02	ca	2.5E-04	ca	1.2E-03	ca	1.5E-03	ca		1.3E-04	
Pebulate	1114-71-2					5.0E-02	H					1	0.1		3.1E+03	nc	3.1E+04	nc					1.8E+03	nc		2.1E+00	
Pendimethalin	40487-42-1					4.0E-02	I					1	0.1		2.4E+03	nc	2.5E+04	nc					1.5E+03	nc		7.9E+00	
Pentabromodiphenyl Ether	32534-81-9					2.0E-03	I					1	0.1		1.2E+02	nc	1.2E+03	nc					7.3E+01	nc		4.5E+00	
Pentachlorobenzene	608-93-5					8.0E-04	I					1	0.1		4.9E+01	nc	4.9E+02	nc					2.9E+01	nc		1.2E-01	
Pentachloronitrobenzene	82-68-8	2.6E-01	H			3.0E-03	I					1	0.1		1.9E+00	ca*	6.6E+00	ca					2.6E-01	ca		1.3E-03	
Pentachlorophenol	87-86-5	1.2E-01	I			3.0E-02	I					1	0.25		3.0E+00	ca	9.0E+00	ca					5.6E-01	ca	1.0E+00	3.9E-03	7.0E-03
Perchlorate and Perchlorate Salts	14797-73-0					7.0E-04	I					1			5.5E+01	nc	7.2E+02	nc					2.6E+01	nc			
Permethrin	52645-53-1					5.0E-02	I					1	0.1		3.1E+03	nc	3.1E+04	nc					1.8E+03	nc		6.5E+02	
Phenmedipham	13684-63-4					2.5E-01	I					1	0.1		1.5E+04	nc	1.5E+05	nc					9.1E+03	nc		6.8E+00	
Phenol	108-95-2					3.0E-01	I	2.0E-01	C			1	0.1		1.8E+04	nc	1.8E+05	nc	2.1E+02	nc	8.8E+02	nc	1.1E+04	nc		8.1E+00	
Phenylenediamine, m-	108-45-2					6.0E-03	I					1	0.1		3.7E+02	nc	3.7E+03	nc					2.2E+02	nc		7.6E-02	
Phenylenediamine, o-	95-54-5	4.7E-02	H									1	0.1		1.0E+01	ca	3.7E+01	ca					1.4E+00	ca		5.0E-04	
Phenylenediamine, p-	106-50-3					1.9E-01	H					1	0.1		1.2E+04	nc	1.2E+05	nc					6.9E+03	nc		2.4E+00	
Phenylphenol, 2-	90-43-7	1.9E-03	H									1	0.1		2.5E+02	ca	8.9E+02	ca					3.5E+01	ca		7.2E-01	
Phorate	298-02-2					2.0E-04	H					1	0.1		1.2E+01	nc	1.2E+02	nc					7.3E+00	nc		7.9E-03	
Phosgene	75-44-5							3.0E-04	I	V		1		8.7E+04	4.0E-01	nc	1.7E+00	nc	3.1E-01	nc	1.3E+00	nc					
Phosmet	732-11-6					2.0E-02	I					1	0.1		1.2E+03	nc	1.2E+04	nc					7.3E+02	nc		2.1E-01	

Key: I = IRIS; P = PPRTV; A = ATSDR; C = Cal EPA; H = HEAST; W = WHO; S = see user guide Section 5; L = see user guide on lead; M = mutagen; V= volatile; ca = cancer; ca* = where: nc SL < 100X ca SL; ca** = where nc SL < 10X ca SL; nc = noncancer; max=Concentration may exceed ceiling limit (See User's Guide); sat=Concentration may exceed Csat (See User's Guide); SSL values are bsed on DAF=1

Contaminant		Toxicity and Chemical-specific Information												Screening Levels										Protection of Groundwater Soil Screening Levels	
Analyte	CAS No.	SFO (mg/kg-day)$^{-1}$	key	IUR (ug/m^3)$^{-1}$	key	RfDo (mg/kg-day)	key	RfCi (mg/m^3)	key	volatile	mutagen	RAGS Part E GIABS	RAGS Part E ABS	Csat mg/kg	Residential Soil mg/kg	key	Industrial Soil mg/kg	key	Residential Air ug/m^3	key	Industrial Air ug/m^3	key	Tapwater ug/L	key	MCL ug/L	Risk-based SSL mg/kg	MCL-based SSL mg/kg
Phosphine	7803-51-2					3.0E-04	I	3.0E-04	I			1			2.3E+01	nc	3.1E+02	nc	3.1E-01	nc	1.3E+00	nc	1.1E+01	nc			
Phosphoric Acid	7664-38-2							1.0E-02	I			1			1.4E+07	nc	6.0E+07	nc	1.0E+01	nc	4.4E+01	nc					
Phosphorus, White	7723-14-0					2.0E-05	I					1			1.6E+00	nc	2.0E+01	nc					7.3E-01	nc			
Phthalic Acid, P-	100-21-0					1.0E+00	H					1	0.1		6.1E+04	nc	6.2E+05	nc					3.7E+04	nc		1.3E+01	
Phthalic Anhydride	85-44-9					2.0E+00	I	2.0E-02	C			1	0.1		1.2E+05	nc	1.2E+06	nc	2.1E+01	nc	8.8E+01	nc	7.3E+04	nc		1.6E+01	
Picloram	2/1/1918					7.0E-02	I					1	0.1		4.3E+03	nc	4.3E+04	nc					2.6E+03	nc	5.0E+02	6.0E-01	1.2E-01
Pirimiphos, Methyl	29232-93-7					1.0E-02	I					1	0.1		6.1E+02	nc	6.2E+03	nc					3.7E+02	nc		1.7E-01	
Polybrominated Biphenyls	59536-65-1	3.0E+01	C	8.6E-03	C	7.0E-06	H					1	0.1		1.6E-02	ca*	5.7E-02	ca*	2.8E-04	ca	1.4E-03	ca	2.2E-03	ca			
Polymeric Methylene Diphenyl Diisocyanate (PMDI)	9016-87-9							6.0E-04	I			1	0.1		8.5E+05	nc	3.6E+06	nc	6.3E-01	nc	2.6E+00	nc					
Potassium Perchlorate	7778-74-7					7.0E-04	I					1			5.5E+01	nc	7.2E+02	nc					2.6E+01	nc			
Prochloraz	67747-09-5	1.5E-01	I			9.0E-03	I					1	0.1		3.2E+00	ca	1.1E+01	ca					4.5E-01	ca		2.5E-03	
Profluralin	26399-36-0					6.0E-03	H					1	0.1		3.7E+02	nc	3.7E+03	nc					2.2E+02	nc		8.0E+00	
Prometon	1610-18-0					1.5E-02	I					1	0.1		9.2E+02	nc	9.2E+03	nc					5.5E+02	nc		2.8E-01	
Prometryn	7287-19-6					4.0E-03	I					1	0.1		2.4E+02	nc	2.5E+03	nc					1.5E+02	nc		2.3E-01	
Propachlor	1918-16-7					1.3E-02	I					1	0.1		7.9E+02	nc	8.0E+03	nc					4.7E+02	nc		3.7E-01	
Propanil	709-98-8					5.0E-03	I					1	0.1		3.1E+02	nc	3.1E+03	nc					1.8E+02	nc		1.1E-01	
Propargite	2312-35-8					2.0E-02	I					1	0.1		1.2E+03	nc	1.2E+04	nc					7.3E+02	nc		2.0E+02	
Propargyl Alcohol	107-19-7					2.0E-03	I					1	0.1		1.2E+02	nc	1.2E+03	nc					7.3E+01	nc		1.5E-02	
Propazine	139-40-2					2.0E-02	I					1	0.1		1.2E+03	nc	1.2E+04	nc					7.3E+02	nc		6.7E-01	
Propham	122-42-9					2.0E-02	I					1	0.1		1.2E+03	nc	1.2E+04	nc					7.3E+02	nc		3.3E-01	
Propiconazole	60207-90-1					1.3E-02	I					1	0.1		7.9E+02	nc	8.0E+03	nc					4.7E+02	nc		5.4E+00	
Propylene Glycol	57-55-6					2.0E+01	P					1	0.1		1.2E+06	nc	1.2E+07	nc					7.3E+05	nc		1.5E+02	
Propylene Glycol Dinitrate	6423-43-4						A	2.7E-04	A	V		1		1.4E+03	6.0E+01	nc	2.5E+02	nc	2.8E-01	nc	1.2E+00	nc	5.7E-01	nc		1.9E-04	
Propylene Glycol Monoethyl Ether	1569-02-4					7.0E-01	H					1	0.1		4.3E+04	nc	4.3E+05	nc					2.6E+04	nc		5.2E+00	
Propylene Glycol Monomethyl Ether	107-98-2					7.0E-01	H	2.0E+00	I			1	0.1		4.3E+04	nc	4.3E+05	nc	2.1E+03	nc	8.8E+03	nc	2.6E+04	nc		5.2E+00	
Propylene Oxide	75-56-9	2.4E-01	I	3.7E-06	I			3.0E-02	I	V		1		6.8E+04	1.9E+00	ca	8.7E+00	ca	6.6E-01	ca*	3.3E+00	ca*	2.3E-01	ca		4.7E-05	
Pursuit	81335-77-5					2.5E-01	I					1	0.1		1.5E+04	nc	1.5E+05	nc					9.1E+03	nc		2.7E+01	
Pydrin	51630-58-1					2.5E-02	I					1	0.1		1.5E+03	nc	1.5E+04	nc					9.1E+02	nc		8.1E+02	
Pyridine	110-86-1					1.0E-03	I			V		1		3.0E+05	7.8E+01	nc	1.0E+03	nc					3.7E+01	nc		9.7E-03	
Quinalphos	13593-03-8					5.0E-04	I					1	0.1		3.1E+01	nc	3.1E+02	nc					1.8E+01	nc		7.1E-02	
Quinoline	91-22-5	3.0E+00	I									1	0.1		1.6E-01	ca	5.7E-01	ca					2.2E-02	ca		8.7E-05	
Refractory Ceramic Fibers	NA							3.0E-02	A			1			4.3E+07	nc	1.8E+08	nc	3.1E+01	nc	1.3E+02	nc					
Resmethrin	10453-86-8					3.0E-02	I					1	0.1		1.8E+03	nc	1.8E+04	nc					1.1E+03	nc		9.3E+02	
Ronnel	299-84-3					5.0E-02	H					1	0.1		3.1E+03	nc	3.1E+04	nc					1.8E+03	nc		7.7E+00	
Rotenone	83-79-4					4.0E-03	I					1	0.1		2.4E+02	nc	2.5E+03	nc					1.5E+02	nc		1.0E+02	
Savey	78587-05-0					2.5E-02	I					1	0.1		1.5E+03	nc	1.5E+04	nc					9.1E+02	nc		7.6E+00	
Selenious Acid	7783-00-8					5.0E-03	I					1			3.9E+02	nc	5.1E+03	nc					1.8E+02	nc			
Selenium	7782-49-2					5.0E-03	I					1			3.9E+02	nc	5.1E+03	nc					1.8E+02	nc	5.0E+01		
Selenourea	630-10-4					5.0E-03	H					1	0.1		3.1E+02	nc	3.1E+03	nc					1.8E+02	nc			
Sethoxydim	74051-80-2					9.0E-02	I					1	0.1		5.5E+03	nc	5.5E+04	nc					3.3E+03	nc		1.9E+01	
Silver	7440-22-4					5.0E-03	I					0.04			3.9E+02	nc	5.1E+03	nc					1.8E+02	nc			
Simazine	122-34-9	1.2E-01	H			5.0E-03	I					1	0.1		4.0E+00	ca*	1.4E+01	ca					5.6E-01	ca	4.0E+00	2.8E-04	2.0E-03
Sodium Acifluorfen	62476-59-9					1.3E-02	I					1	0.1		7.9E+02	nc	8.0E+03	nc					4.7E+02	nc		3.1E+00	
Sodium Azide	26628-22-8					4.0E-03	I					1			3.1E+02	nc	4.1E+03	nc					1.5E+02	nc			
Sodium Diethyldithiocarbamate	148-18-5	2.7E-01	H			3.0E-02	I					1	0.1		1.8E+00	ca	6.4E+00	ca					2.5E-01	ca			
Sodium Fluoroacetate	62-74-8					2.0E-05	I					1	0.1		1.2E+00	nc	1.2E+01	nc					7.3E-01	nc		1.5E-04	
Sodium Metavanadate	13718-26-8					1.0E-03	H					1			7.8E+01	nc	1.0E+03	nc					3.7E+01	nc			
Sodium Perchlorate	7601-89-0					7.0E-04	I					1			5.5E+01	nc	7.2E+02	nc					2.6E+01	nc			
Stirofos (Tetrachlorovinphos)	961-11-5	2.4E-02	H			3.0E-02	I					1	0.1		2.0E+01	ca*	7.2E+01	ca					2.8E+00	ca		2.2E-03	
Strontium, Stable	7440-24-6					6.0E-01	I					1			4.7E+04	nc	6.1E+05	nc					2.2E+04	nc			
Strychnine	57-24-9					3.0E-04	I					1	0.1		1.8E+01	nc	1.8E+02	nc					1.1E+01	nc		1.4E-01	
Styrene	100-42-5					2.0E-01	I	1.0E+00	I	V		1		1.0E+03	6.5E+03	sat	3.8E+04	nc	1.0E+03	nc	4.4E+03	nc	1.6E+03	nc	1.0E+02	2.0E+00	1.2E-01
Systhane	88671-89-0					2.5E-02	I					1	0.1		1.5E+03	nc	1.5E+04	nc					9.1E+02	nc		2.1E+02	
TCMTB	21564-17-0					3.0E-02	H					1	0.1		1.8E+03	nc	1.8E+04	nc					1.1E+03	nc		8.3E+00	
Tebuthiuron	34014-18-1					7.0E-02	I					1	0.1		4.3E+03	nc	4.3E+04	nc					2.6E+03	nc		6.3E-01	
Temephos	3383-96-8					2.0E-02	H					1	0.1		1.2E+03	nc	1.2E+04	nc					7.3E+02	nc		2.3E+03	
Terbacil	5902-51-2					1.3E-02	I					1	0.1		7.9E+02	nc	8.0E+03	nc					4.7E+02	nc		1.7E-01	
Terbufos	13071-79-9					2.5E-05	H					1	0.1		1.5E+00	nc	1.5E+01	nc					9.1E-01	nc		2.0E-03	
Terbutryn	886-50-0					1.0E-03	I					1	0.1		6.1E+01	nc	6.2E+02	nc					3.7E+01	nc		5.4E-02	
Tetrachlorobenzene, 1,2,4,5-	95-94-3					3.0E-04	I					1	0.1		1.8E+01	nc	1.8E+02	nc					1.1E+01	nc		2.8E-02	
Tetrachloroethane, 1,1,1,2-	630-20-6	2.6E-02	I	7.4E-06	I	3.0E-02	I			V		1		7.5E+02	2.0E+00	ca	9.8E+00	ca	3.3E-01	ca	1.7E+00	ca	5.2E-01	ca		2.1E-04	
Tetrachloroethane, 1,1,2,2-	79-34-5	2.0E-01	I	5.8E-05	I					V		1		2.1E+03	5.9E-01	ca	2.9E+00	ca	4.2E-02	ca	2.1E-01	ca	6.7E-02	ca		2.8E-05	
Tetrachloroethylene	127-18-4	5.4E-01	C	5.9E-06	C	1.0E-02	I	2.7E-01	A	V		1		1.8E+02	5.7E-01	ca	2.7E+00	ca	4.1E-01	ca	2.1E+00	ca	1.1E-01	ca	5.0E+00	5.2E-05	2.4E-03
Tetrachlorophenol, 2,3,4,6-	58-90-2					3.0E-02	I					1	0.1		1.8E+03	nc	1.8E+04	nc					1.1E+03	nc		4.6E+00	
Tetrachlorotoluene, p- alpha, alpha, alpha-	5216-25-1	2.0E+01	H									1	0.1		2.4E-02	ca	8.6E-02	ca					3.4E-03	ca		1.4E-05	
Tetraethyl Dithiopyrophosphate	3689-24-5					5.0E-04	I					1	0.1		3.1E+01	nc	3.1E+02	nc					1.8E+01	nc		1.4E-01	
Tetrafluoroethane, 1,1,1,2-	811-97-2							8.0E+01	I	V		1		8.2E+02	1.1E+05	sat	4.7E+05	nc	8.3E+04	nc	3.5E+05	nc	1.7E+05	nc		9.6E+01	
Tetryl (Trinitrophenylmethylnitramine)	479-45-8					4.0E-03	P					1	0.1		2.4E+02	nc	2.5E+03	nc					1.5E+02	nc		6.5E-01	
Thallium (I) Nitrate	10102-45-1					9.0E-05	I					1			7.0E+00	nc	9.2E+01	nc					3.3E+00	nc			
Thallium (Soluble Salts)	7440-28-0					6.5E-05	S					1			5.1E+00	nc	6.6E+01	nc					2.4E+00	nc	2.0E+00		
Thallium Acetate	563-68-8					9.0E-05	I					1			7.0E+00	nc	9.2E+01	nc					3.3E+00	nc			
Thallium Carbonate	6533-73-9					8.0E-05	I					1			6.3E+00	nc	8.2E+01	nc					2.9E+00	nc			

Key: I = IRIS; P = PPRTV; A = ATSDR; C = Cal EPA; H = HEAST; W = WHO; S = see user guide Section 5; L = see user guide on lead; M = mutagen; V= volatile, ca = cancer; ca* = where: nc SL < 100X ca SL; ca** = where nc SL < 10X ca SL; nc = noncancer; max=Concentration may exceed ceiling limit (See User's Guide); sat=Concentration may exceed Csat (See User's Guide); SSL values are based on DAF=1

Contaminant		Toxicity and Chemical-specific Information													Screening Levels										Protection of Groundwater Soil Screening Levels	
Analyte	CAS No.	SFO (mg/kg-day)$^{-1}$	key	IUR (ug/m^3)$^{-1}$	key	RfDo (mg/kg-day)	key	RfCi (mg/m^3)	key	voc	muta-gen	RAGS Part E GIABS	RAGS Part E ABS	Csat mg/kg	Residential Soil mg/kg	key	Industrial Soil mg/kg	key	Residential Air ug/m^3	key	Industrial Air ug/m^3	key	Tapwater ug/L	key	MCL ug/L	Risk-based SSL mg/kg	MCL-based SSL mg/kg
Thallium Chloride	7791-12-0					8.0E-05	I					1			6.3E+00	nc	8.2E+01	nc					2.9E+00	nc			
Thallium Sulfate	7446-18-6					8.0E-05	I					1			6.3E+00	nc	8.2E+01	nc					2.9E+00	nc			
Thiobencarb	28249-77-6					1.0E-02	I					1	0.1		6.1E+02	nc	6.2E+03	nc					3.7E+02	nc		2.0E+00	
Thiofanox	39196-18-4					3.0E-04	H					1	0.1		1.8E+01	nc	1.8E+02	nc					1.1E+01	nc		4.3E-03	
Thiophanate, Methyl	23564-05-8					8.0E-02	I					1	0.1		4.9E+03	nc	4.9E+04	nc					2.9E+03	nc		6.7E-01	
Thiram	137-26-8					5.0E-03	I					1	0.1		3.1E+02	nc	3.1E+03	nc					1.8E+02	nc		4.0E-02	
Tin	7440-31-5					6.0E-01	H					1			4.7E+04	nc	6.1E+05	nc					2.2E+04	nc			
Toluene	108-88-3					8.0E-02	I	5.0E+00	I	V		1		9.3E+02	5.0E+03	sat	4.6E+04	nc	5.2E+03	nc	2.2E+04	nc	2.3E+03	nc	1.0E+03	1.7E+00	7.6E-01
Toluene diisocyanate mixture (TDI)	26471-62-5							7.0E-05	I	V		1		2.1E+03	5.4E+01	nc	2.3E+02	nc	7.3E-02	nc	3.1E-01	nc	1.5E-01	nc		2.7E-03	
Toluene-2,4-diamine	95-80-7	3.8E+00	C	1.1E-03	C							1	0.1		1.3E-01	ca	4.5E-01	ca	2.2E-03	ca	1.1E-02	ca	1.8E-02	ca		7.8E-06	
Toluene-2,5-diamine	95-70-5					6.0E-01	H					1	0.1		3.7E+04	nc	3.7E+05	nc					2.2E+04	nc		9.6E+00	
Toluene-2,6-diamine	823-40-5					3.0E-02	P					1	0.1		1.8E+03	nc	1.8E+04	nc					1.1E+03	nc		4.9E-01	
Toluidine, o- (Methylaniline, 2-)	95-53-4	1.8E-01	C	5.1E-05	C							1	0.1		2.7E+00	ca	9.6E+00	ca	4.8E-02	ca	2.4E-01	ca	3.7E-01	ca		1.3E-04	
Toluidine, p-	106-49-0	1.9E-01	H									1	0.1		2.6E+00	ca	9.1E+00	ca					3.5E-01	ca		1.2E-04	
Toxaphene	8001-35-2	1.1E+00	I	3.2E-04	I							1	0.1		4.4E-01	ca	1.6E+00	ca	7.6E-03	ca	3.8E-02	ca	6.1E-02	ca	3.0E+00	1.2E-02	6.0E-01
Tralomethrin	66841-25-6					7.5E-03	I					1	0.1		4.6E+02	nc	4.6E+03	nc					2.7E+02	nc		1.4E+02	
Triallate	2303-17-5					1.3E-02	I					1	0.1		7.9E+02	nc	8.0E+03	nc					4.7E+02	nc		1.7E+00	
Triasulfuron	82097-50-5					1.0E-02	I					1	0.1		6.1E+02	nc	6.2E+03	nc					3.7E+02	nc		3.3E-01	
Tribromobenzene, 1,2,4-	615-54-3					5.0E-03	I					1	0.1		3.1E+02	nc	3.1E+03	nc					1.8E+02	nc		3.0E-01	
Tributyltin Compounds	NA					3.0E-04	P					1	0.1		1.8E+01	nc	1.8E+02	nc					1.1E+01	nc			
Tributyltin Oxide	56-35-9					3.0E-04	I					1	0.1		1.8E+01	nc	1.8E+02	nc					1.1E+01	nc		8.2E+02	
Trichloro-1,2,2-trifluoroethane, 1,1,2-	76-13-1					3.0E+01	I	3.0E+01	H	V		1		9.4E+02	4.3E+04	sat	1.8E+05	nc	3.1E+04	nc	1.3E+05	nc	5.9E+04	nc		1.5E+02	
Trichloroaniline HCl, 2,4,6-	33663-50-2	2.9E-02	H									1	0.1		1.7E+01	ca	5.9E+01	ca					2.3E+00	ca		2.2E-03	
Trichloroaniline, 2,4,6-	634-93-5	3.4E-02	H									1	0.1		1.4E+01	ca	5.1E+01	ca					2.0E+00	ca		1.2E-03	
Trichlorobenzene, 1,2,4-	120-82-1	3.6E-03	C			1.0E-02	I			V		1		2.2E+02	1.8E+02	ca**	7.9E+02	ca*					1.9E+01	ca*	7.0E+01	3.1E-02	1.1E-01
Trichloroethane, 1,1,1-	71-55-6					2.0E+00	I	5.0E+00	I	V		1		6.8E+02	9.0E+03	sat	3.9E+04	nc	5.2E+03	nc	2.2E+04	nc	9.1E+03	nc	2.0E+02	3.3E+00	7.2E-02
Trichloroethane, 1,1,2-	79-00-5	5.7E-02	I	1.6E-05	I	4.0E-03	I			V		1		5.6E+02	1.1E+00	ca	5.5E+00	ca	1.5E-01	ca	7.7E-01	ca	2.4E-01	ca	5.0E+00	8.2E-05	1.7E-03
Trichloroethylene	79-01-6	1.3E-02	C	2.0E-06	C					V		1		7.5E+02	2.8E+00	ca	1.4E+01	ca	1.2E+00	ca	6.1E+00	ca	1.7E+00	ca	5.0E+00	6.1E-04	1.9E-03
Trichlorofluoromethane	75-69-4					3.0E-01	I	7.0E-01	H	V		1		1.3E+03	8.0E+02	nc	3.4E+03	nc	7.3E+02	nc	3.1E+03	nc	1.3E+03	nc		8.4E-01	
Trichlorophenol, 2,4,5-	95-95-4					1.0E-01	I					1	0.1		6.1E+03	nc	6.2E+04	nc					3.7E+03	nc		9.4E+00	
Trichlorophenol, 2,4,6-	88-06-2	1.1E-02	I	3.1E-06	I	1.0E-03	P					1	0.1		4.4E+01	ca**	1.6E+02	ca**	7.8E-01	ca	4.0E+00	ca	6.1E+00	ca**		1.6E-02	
Trichlorophenoxy) Propionic Acid, 2(2,4,5-	93-72-1					8.0E-03	I					1	0.1		4.9E+02	nc	4.9E+03	nc					2.9E+02	nc	5.0E+01	1.1E-01	1.8E-02
Trichlorophenoxyacetic Acid, 2,4,5-	93-76-5					1.0E-02	I					1	0.1		6.1E+02	nc	6.2E+03	nc					3.7E+02	nc		1.1E-01	
Trichloropropane, 1,1,2-	598-77-6					5.0E-03	I			V		1		1.4E+03	3.9E+02	nc	5.1E+03	nc					1.8E+02	nc		7.6E-02	
Trichloropropane, 1,2,3-	96-18-4	7.0E+00	H			6.0E-03	I			V		1		1.6E+03	9.1E-02	ca	4.1E-01	ca					9.6E-03	ca		4.4E-06	
Tridiphane	58138-08-2					3.0E-03	I					1	0.1		1.8E+02	nc	1.8E+03	nc					1.1E+02	nc		4.1E-01	
Triethylamine	121-44-8							7.0E-03	I	V		1		5.5E+04	1.7E+02	nc	7.1E+02	nc	7.3E+00	nc	3.1E+01	nc	1.5E+01	nc		6.1E-03	
Trifluralin	1582-09-8	7.7E-03	I			7.5E-03	I					1	0.1		6.3E+01	ca**	2.2E+02	ca*					8.7E+00	ca*		1.7E-01	
Trimethyl Phosphate	512-56-1	3.7E-02	H									1	0.1		1.3E+01	ca	4.7E+01	ca					1.8E+00	ca		3.9E-04	
Trimethylbenzene, 1,2,4-	95-63-6							7.0E-03	P	V		1		2.5E+02	6.7E+01	nc	2.8E+02	nc	7.3E+00	nc	3.1E+01	nc	1.5E+01	nc		2.4E-02	
Trinitrobenzene, 1,3,5-	99-35-4					3.0E-02	I					1	0.1		1.8E+03	nc	1.8E+04	nc					1.1E+03	nc		2.6E+00	
Trinitrotoluene, 2,4,6-	118-96-7	3.0E-02	I			5.0E-04	I					1	0.1		1.6E+01	ca**	5.7E+01	ca**					2.2E+00	ca**		8.7E-03	
Tri-n-butyltin	688-73-3					3.0E-04	A					1	0.1		1.8E+01	nc	1.8E+02	nc					1.1E+01	nc		2.8E-01	
Uranium (Soluble Salts)	NA					3.0E-03	I					1			2.3E+02	nc	3.1E+03	nc					1.1E+02	nc			
Vanadium Pentoxide	1314-62-1					9.0E-03	I					0.026			7.0E+02	nc	9.2E+03	nc					3.3E+02	nc			
Vanadium Sulfate	36907-42-3					2.0E-02	H					0.026			1.6E+03	nc	2.0E+04	nc					7.3E+02	nc			
Vanadium and Compounds	NA					5.0E-03	S					1			3.9E+02	nc	5.2E+03	nc					1.8E+02	nc			
Vanadium, Metallic	7440-62-2					7.0E-03	H					0.026			5.5E+02	nc	7.2E+03	nc					2.6E+02	nc			
Vanadyl Sulfate	27774-13-6					2.0E-02	H					1			1.6E+03	nc	2.0E+04	nc					7.3E+02	nc			
Vernolate	1929-77-7					1.0E-03	I					1	0.1		6.1E+01	nc	6.2E+02	nc					3.7E+01	nc		4.2E-02	
Vinclozolin	50471-44-8					2.5E-02	I					1	0.1		1.5E+03	nc	1.5E+04	nc					9.1E+02	nc		7.1E-01	
Vinyl Acetate	108-05-4					1.0E+00	H	2.0E-01	I	V		1		2.8E+03	9.9E+02	nc	4.2E+03	nc	2.1E+02	nc	8.8E+02	nc	4.1E+02	nc		8.8E-02	
Vinyl Bromide	593-60-2							3.0E-03	I	V		1		1.7E+03	4.7E+00	nc	2.0E+01	nc	3.1E+00	nc	1.3E+01	nc	6.3E+00	nc		1.8E-03	
Vinyl Chloride	75-01-4	7.2E-01	I	4.4E-06	I	3.0E-03	I	1.0E-01	I	V	M	1		4.0E+03	6.0E-02	ca	1.7E+00	ca	1.6E-01	ca	2.8E+00	ca	1.6E-02	ca	2.0E+00	5.6E-06	7.0E-04
Warfarin	81-81-2					3.0E-04	I					1	0.1		1.8E+01	nc	1.8E+02	nc					1.1E+01	nc		8.2E-03	
Xylene, Mixture	1330-20-7					2.0E-01	I	1.0E-01	I	V		1		3.0E+02	6.0E+02	sat	2.6E+03	nc	1.0E+02	nc	4.4E+02	nc	2.0E+02	nc	1.0E+04	2.3E-01	1.1E+01
Xylene, P-	106-42-3							7.0E-01	C	V		1		4.5E+02	4.7E+03	sat	2.0E+04	nc	7.3E+02	nc	3.1E+03	nc	1.5E+03	nc		1.6E+00	
Xylene, m-	108-38-3					2.0E+00	H	7.0E-01	C	V		1		4.4E+02	4.5E+03	sat	1.9E+04	nc	7.3E+02	nc	3.1E+03	nc	1.4E+03	nc		1.6E+00	
Xylene, o-	95-47-6					2.0E+00	H	7.0E-01	C	V		1		3.0E+02	5.3E+03	sat	2.3E+04	nc	7.3E+02	nc	3.1E+03	nc	1.4E+03	nc		1.6E+00	
Zinc (Metallic)	7440-66-6					3.0E-01	I					1			2.3E+04	nc	3.1E+05	nc					1.1E+04	nc			
Zinc Phosphide	1314-84-7					3.0E-04	I					1			2.3E+01	nc	3.1E+02	nc					1.1E+01	nc			
Zineb	12122-67-7					5.0E-02	I					1	0.1		3.1E+03	nc	3.1E+04	nc					1.8E+03	nc		4.0E-01	