State of Oregon
Department of
Environmental
Quality

DEPT OF ENVIRONMENTAL QUALITY
RECEIVED
APR 30 2012
NORTHWEST REGION

Application for a

Solid Waste Beneficial Use Determination

DEQ USE ONLY – BUSINESS OFFICE
Date Received: _____
Amount Received: _____
Check No.: _____
Deposit No.: _____
Forward confirmation of fee payment for:
Eastern Region to DEQ, The Dalles
Northwestern Region to DEQ-NWR, Portland
Western Region to DEQ, Salem

A. REFERENCE INFORMATION *(Please type or print clearly.)*

Canby Utility Board		Canby Utility	
Legal name of applicant		Business name of applicant if different	
PO Box 1070		Canby	OR	97013
Mailing address		City	State	Zip
503-266-1156	971-563-6299	bbenson@canbyutility.org	503-263-8621
Phone	Mobile	E-mail	Fax

Canby Utility			
Generator of solid waste (may be same as applicant)			
PO Box 1070		Canby	OR	97013
Mailing address		City	State	Zip
503-266-1156	971-563-6299	bbenson@canbyutility.org	503-263-8621
Phone	Mobile	E-mail	Fax

B. TYPE OF BENEFICIAL USE DETERMINATION REQUESTED Beneficial Use Determination applications are categorized based on the type of information and potential amount of work required by DEQ staff to review application materials and render a decision. A tiered review and fee system has been established in rule. The tiers are:

Tier 1 For a beneficial use of a solid waste that does not contain hazardous substances significantly exceeding the concentration in a comparable raw material or commercial product and that will be used in a manufactured product;

Tier 2 For a beneficial use of a solid waste that contains hazardous substances significantly exceeding the concentration in a comparable raw material or commercial product, or involves application on the land;

Tier 3 For a beneficial use of a solid waste that requires research, such as a literature review or risk assessment, or for a demonstration project to demonstrate compliance with this rule.

I am applying for a ☐ Tier 1 ☒ Tier 2 ☐ Tier 3 determination.

C. DOES THIS PROPOSED BENEFICIAL USE INVOLVE LAND APPLICATION OF ANY MATERIAL?
☒ Yes ☐ No

D. SIGNATURE I hereby certify by my signature below that the information contained in this application, and the documents I have attached, are true and correct to the best of my knowledge and belief.

	Matt Michel	General Manager	4/26/12
Signature of legally authorized representative	Print name	Title	Date

E. REQUIRED ATTACHMENTS TO THIS APPLICATION *(For an application to be complete, it must provide the required information for each listed item of the tier which is being applied for.)*

Tier 1

- ☒ A description of the material, manner of generation, and estimated quantity to be used each year;
- ☒ A description of the proposed use;
- ☒ A comparison of the chemical and physical characteristics of the material proposed for use with the material it will replace;
- ☒ A demonstration of compliance with the performance criteria in OAR 340-093-0280 based on knowledge of the process that generated the material, properties of the finished product, or testing; and
- ☒ Any other information that DEQ may require to evaluate the proposal.

Tier 2

- ☒ The information required for a Tier 1 application;
- ☒ Sampling and analysis that provides chemical, physical, and biological characterization of the material and that identifies potential contaminants in the material or the end product, as applicable;
- ☒ A risk screening comparing the concentration of hazardous substances in the material to existing, DEQ approved, risk-based screening level values, and demonstrating compliance with acceptable risk levels;
- ☒ Location or type of land use where the material will be applied, consistent with the risk scenarios used to evaluate risk;
- ☒ Contact information of property owner(s) if this is a site-specific land application proposal, including name, address, phone number, e-mail, site address and site coordinates (latitude and longitude); and
- ☒ A description of how the material will be managed to minimize potential adverse impacts to public health, safety, welfare, or the environment.

Tier 3

- ☐ The information required for a Tier 1 & 2 application;
- ☐ A discussion of the justification for the proposal;
- ☐ An estimate of the expected length of time that would be required to complete the project, if it is a demonstration; and
- ☐ If it is a demonstration project, the methods proposed to ensure safe and proper management of the material.

F. PERFORMANCE CRITERIA *(For all tiers - An application for a beneficial use determination must demonstrate satisfactory compliance with the following performance criteria.)*

The use is productive, including:

- There is an identified or reasonably likely use for the material that is not speculative;
- The use is a valuable part of a manufacturing process, an effective substitute for a valuable raw material or commercial product, or otherwise authorized by DEQ, and does not constitute disposal; and
- The use is in accordance with applicable engineering standards, commercial standards, and agricultural or horticultural practices.

The use will not create an adverse impact to public health, safety, welfare, or the environment, including:

- The material is not a hazardous waste under ORS 466.005;
- Until the time the material is used in accordance with a beneficial use determination, the material will be managed, including any storage, transportation, or processing, to prevent releases to the environment or nuisance conditions;
- Hazardous substances in the material do not significantly exceed the concentration in a comparable raw material or commercial product, or do not exceed naturally occurring background concentrations, or do not exceed acceptable risk levels, including evaluation of persistence and potential bioaccumulation, when the material is managed according to a beneficial use determination.

The use will not result in the increase of a hazardous substance in a sensitive environment.

The use will not create objectionable odors, dust, unsightliness, fire, or other nuisance conditions.

The use will comply with all applicable federal, state, and local regulations.

G. FEES *(Must accompany the application for it to be considered complete)*

☐	Tier 1 beneficial use determination	$1,000
☒	Tier 2 beneficial use determination	$2,000
☐	Tier 3 beneficial use determination	$5,000

Make checks out to: **Oregon DEQ**

Total fees included: 2000.00

H. APPLICATION PROCEDURE

Step 1
Contact a DEQ staff person for assistance with the preparation of the application. DEQ staff will help with: 1) Determination of the eligibility for a beneficial use determination of a particular waste or process; and, 2) If eligible, establish the tier of beneficial use determination review required and associated fee to submit with the application.

Step 2
Mail the original signed application, all attachments, including the fee payment plus one extra copy to the appropriate regional office (see listing below.) Note that DEQ review work will not begin until a complete application packet is received. Incomplete applications may be returned. DEQ recommends the applicant keep a full copy of all application materials to guard against possible loss in transit.

Step 3
DEQ will contact the applicant, acknowledging receipt of the application, and will identify the staff person assigned to carryout the review. This staff person will contact the applicant if any additional information is needed.

Region	Counties Served	Address & Phone
Eastern Region	Baker, Crook, Deschutes, Gilliam, Grant, Harney, Hood River, Jefferson, Klamath, Lake, Malheur, Morrow, Sherman, Umatilla, Union, Wallowa, Wasco, and Wheeler	Eastern Region Department of Environmental Quality 400 E Scenic Drive, Ste 2.307 The Dalles, OR 97058 (541) 298-7255 ext. 221
Northwest Region	Clatsop, Clackamas, Columbia, Multnomah, Tillamook, and Washington	Northwest Region DEQ Solid Waste Programs 2020 SW Fourth Ave. Ste 400 Portland, OR 97201 (503) 229-5353
Western Region	Benton, Coos, Curry, Douglas, Jackson, Josephine, Lane, Lincoln, Linn, Marion, Polk, and Yamhill	Western Region DEQ Solid Waste Programs 750 Front St. NE Suite 120 Salem, OR 97301 (503) 378-5047

Canby Utility Board
Solid Waste Beneficial Use Determination Application
Section E, Required Attachments
April 2012

Tier 1

A Description of the material, manner of generation, and estimated quantity to be used each year:

The material is comprised of mostly river sediment. The material is generated through chemical coagulation at the drinking water plant. The solids are a result of back washing collected sediment from Canby Utility's eight (8) water treatment filters. Canby Utility estimates 250-300 tons of sediment will be generated annually.

A description of the proposed use:

The material will be used as a soil amendment for residential and municipal use. An agricultural exclusion for land application was previously granted on February 2, 2012. (See attached letter).

A comparison of the chemical and physical characteristics of the material proposed for use with the material it will replace:

The material will not be replacing any other material. The material will be used as a soil amendment. It is a brown to black solid consisting of natural soil erosion compounds with traces of aluminum, ammonia and nitrates from the coagulant. (See attached chemical analysis)

A demonstration of compliance with the performance criteria in OAR 340-093-0280 based on knowledge of the process that generated the material, properties of the finished product, or testing:

The process generating the material is from creating drinking water for human consumption. An expanded metals analysis has been performed, demonstrating no hazardous metal levels to humans, animals or the environment. The solid materials also include ammonia and nitrogen making it beneficial to ornamental plant or agricultural use. Materials tested to EPA / ISM01.3 Metals and Cyanide Target Analyte List and Corresponding CRQLs, Ammonia per Standard Method 4500-NH3 per EPA Method, and Calculated Total Nitrogen per EPA Methods, and EPA 351.2 and 353.2 (See attached chemical analysis).

Any other information that DEQ may require to evaluate the proposal:

Per discussions with Bill Mason, Western Region- Eugene of the Department of Environmental Quality, no additional information is expected to be requested.

Tier 2

The information required for a Tier 1 Application

See above.

Sampling and analysis that provides chemical, physical, and biological characterization of the material and that identifies potential contaminants in the material or the end product, as applicable:

See attached 15-page Analytical Report by Test America, dated April 19, 2012

Canby Utility Board
Solid Waste Beneficial Use Determination Application
Section E, Required Attachments
April 2012

A risk screening comparing the concentration of hazardous substances in the material to existing, DEQ approved, risk-based screening level values, and demonstrating compliance with acceptable risk levels:

Sample ID: BW3, Sample 01/04/12, Lab: TestAmerica ORLAP# OR100021

Analyte	Method	Results (mg/kg)	RL (mg/kg)	Qualifier	RBC_{SS} (mg/kg)	RSL Residential soil (mg/kg)	CFV (mg/kg)
Aluminum	EPA 6010B	47800	172		-	7.70E+04	98,000
Antimony	EPA 6010B	ND	172	RL1	-	3.10E+01	0.446
Arsenic	EPA 6010B	ND	172	RL1	0.39	3.90E-01	14.08
Barium	EPA 6010B	117	68.8		15000	1.50E+04	686.6
Beryllium	EPA 6010B	**0.405**	**68.8**	RL1 J	160	1.60E+02	1.634
Cadmium	EPA 6010B	ND	68.8	RL1	39	7.00E+01	1.796
Calcium	EPA 6010B	4060	1720		-	-	-
Chromium, Total	EPA 6010B	**30.2**	**68.8**	RL1 J	CR3:120,000 CR6: 0.29	CR3:1.2E+05 CR6: 2.9E-01	CR3:90.2 CR6: 130
Cobalt	EPA 6010B	**13.4**	**68.8**	RL1 J	-	2.30E+01	29
Copper	EPA 6010B	**41.4**	**68.8**	RL1 J	3100	3.10E+03	43.11
Iron	EPA 6010B	29700	688		-	5.50E+04	81,000
Lead	EPA 6010B	ND	172	RL1	400	4.00E+02	18.46
Magnesium	EPA 6010B	3640	688		-	-	-
Manganese	EPA 6010B	317	172		1800	1.80E+03	1158
Nickel	EPA 6010B	**24.6**	**172**	RL1 J	1500	1.50E+03	303.1
Potassium	EPA 6010B	**669**	**1720**	RL1 J	-	-	-
Selenium	EPA 6010B	ND	172	RL1	-	3.90E+02	95.11
Silver	EPA 6010B	ND	172	RL1	390	3.90E+02	1.965
Sodium	EPA 6010B	**472**	**1720**	RL1 J	-	-	-
Thallium	EPA 6010B	ND	172	RL1	-	7.80E-01	2.076
Vanadium	EPA 6010B	112	68.8		-	3.90E+02	249.1
Zinc	EPA 6010B	**65.6**	**344**	RL1 J	-	2.30E+04	95.74

% Solids	ASTM D2216-80	29.1	0.0100		-	-	
pH	EPA 9045C	6.27			-	-	

Total Nitrogen	[CALC]	14700	1800		-		
Nitrate/Nitrite-Nitrogen	EPA 353.2	6.45	0.343		-	1.30E+05	130,000
Total Kjeldahl Nitrogen	EPA 351.2	14700	1800		-		

Ammonia-Nitrogen	SM 4500-NH3, H	9.28	1.71	H	-	-	

Results in **BOLD** are below reporting limits / "J flags"

RBC_{SS}: Risk Based Concentrations, Residential Direct Contact, Oregon DEQ November 15, 2011

RSL: Regional Screening Level (RSL) Summary Table, EPA November 2011

CFV: Clean Fill Value, Preliminary Clean Fill Table for Metals and Organics, proposed values; DEQ 9-27-2011

Location or type of land use where the material will be applied, consistent with the risk scenarios used to evaluate risk:

Based on the regional screening levels and background values, the material will be used as soil amendment for residential and municipal applications.

Contact information of property owner(s) if this is a site-specific land application proposal, including name, address, phone number, e-mail, site address and site coordinates (latitude and longitude):

Property Owners:
Canby Utility Board
PO Box 1070
154 NW 1st Avenue
Canby, OR 97013
503-266-1156
bbenson@canbyutility.org

Technical Contact for Project:
Brian Hutchins
Veolia Water North America
503-266-6400
brian.hutchins@veoliawaterna.com

Site Address:
1310 NW 3rd Avenue
Canby, OR 97013
Lat: 45.262299
Long: -122.710027

A description of how the material will be managed to minimize potential adverse impacts to public health, safety, welfare, or the environment:

No potential adverse impacts expected from this material.

Attached:

February 2, 2012, DEQ, Agricultural Exclusion Letter
April 19, 2012, TestAmerica, Analytical Report
September 27, 2011, Canby Utility, Clean Fill Table for Uplands (metals)
November 15, 2011, DEQ, Risk-Based Concentrations Table
November 2011, EPA, Regional Screening Level (RSL) Summary Table

ATTACHMENT

February 2, 2012, DEQ, Agricultural Exclusion Letter

Oregon
John A. Kitzhaber, MD, Governor

Department of Environmental Quality
Western Region Eugene Office
165 East 7th Avenue, Suite 100
Eugene, OR 97401
(541) 686-7838
FAX (541) 686-7551
TTY 711

February 2, 2012

Brian Hutchins
Veolia Water NA
PO Box 670
Canby, OR 97013

RE: Agricultural exclusion for land application of water treatment plant solids

Dear Brian:

DEQ has evaluated whether the Veolia Water's water treatment plant solids material qualifies for the agricultural exclusion from the definition of "solid waste." The solids contain agronomically signifieant concentrations of ammonia and nitrogen, which productively can be used for growing crops. To be considered a productive purpose, the solid waste must provide a net benefit in the agricultural operation and cannot create an adverse impact to human health or the environment. For growing crops, the material must be used at or below agronomic rates.

You have proposed to provide this material to farmers growing crops on agricultural lands for use as a waste-derived fertilizer. You provided us with laboratory analytical results for this material, and material safety data sheets for the flocculants and/or coagulants you use in your treatment process. Based on DEQ's review of this information and on our understanding that you will be providing the material to farmers applying it to agriculturally zoned lands at agronomic rates, we find that your water treatment plant solids material qualifies for the agricultural exclusion in OAR 340-093-0030(85)(b).

This exclusion will no longer apply if your treatment process changes significantly, if you plan to use the material on non-agricultural lands, or if it is applied above agronomic application rates. The solids would then be subject to solid waste regulations.

If you have not already done so, please register this material with the Department of Agriculture under their rules as a waste-derived agricultural product.

If you have any questions or would like to discuss this matter further, please contact Bill Mason at 541-687-7427 or via email at mason.bill@deq.state.or.us.

Sincerely,

Bill Mason, RG
Western Region - Eugene

enc: Agricultural Use Exclusion Internal Management Directive

ATTACHMENT

April 19, 2012, TestAmerica, Analytical Report

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Portland
9405 SW Nimbus Ave.
Beaverton, OR 97008
Tel: (503) 906-9200

TestAmerica Job ID: PVA0116
Client Project/Site: PWS #4100157
Client Project Description: Drinking Water Monitoring

For:
Veolia Water North America -Canby
PO Box 670
Canby, OR 97013

Attn: Brian Hutchins

Authorized for release by:
4/19/2012 3:21:52 PM
Doug McKenzie
Client Service Manager
doug.mckenzie@testamericainc.com

Designee for

Vanessa Frahs
Project Manager
Vanessa.Frahs@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Veolia Water North America -Canby
Project/Site: PWS #4100157

TestAmerica Job ID: PVA0116

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
PVA0116-01	BW3	Soil	01/04/12 15:00	01/05/12 10:35
PVA0116-02	1511 NE Laurelwood Circle	Water	01/05/12 08:25	01/05/12 10:35
PVA0116-03	1709 SE 11th Pl.	Water	01/05/12 08:50	01/05/12 10:35
PVA0116-04	Raw	Water	01/05/12 08:02	01/05/12 10:35
PVA0116-05	Fin	Water	01/05/12 08:02	01/05/12 10:35

Definitions/Glossary

Client: Veolia Water North America -Canby
Project/Site: PWS #4100157

TestAmerica Job ID: PVA0116

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Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
MHA	Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
M8	The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).
RL1	Reporting limit raised due to sample matrix effects.

Wet Chem

Qualifier	Qualifier Description
P7	Sample filtered in lab.
MHA	Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
M2	The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
R2	The RPD exceeded the acceptance limit.
M1	The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
H	Sample analysis performed past method-specified holding time.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Veolia Water North America -Canby
Project/Site: PWS #4100157

TestAmerica Job ID: PVA0116

Method: EPA 6010B - Total Metals per EPA 6000/7000 Series Methods

Client Sample ID: BW3
Date Collected: 01/04/12 15:00
Date Received: 01/05/12 10:35

Lab Sample ID: PVA0116-01
Matrix: Soil
Percent Solids: 29.1

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**47800**		172	20.4	mg/kg dry	☼	01/09/12 14:51	01/10/12 23:50	10.0
Antimony	ND	RL1	172	16.7	mg/kg dry	☼	01/09/12 14:51	01/10/12 23:50	10.0
Arsenic	ND	RL1	172	14.8	mg/kg dry	☼	01/09/12 14:51	01/10/12 23:50	10.0
Barium	**117**		68.8	5.61	mg/kg dry	☼	01/09/12 14:51	01/10/12 23:50	10.0
Beryllium	**0.405**	**RL1 J**	68.8	0.138	mg/kg dry	☼	01/09/12 14:51	01/10/12 23:50	10.0
Cadmium	ND	RL1	68.8	0.413	mg/kg dry	☼	01/09/12 14:51	01/10/12 23:50	10.0
Calcium	**4060**		1720	681	mg/kg dry	☼	01/09/12 14:51	01/10/12 23:50	10.0
Chromium	**30.2**	**RL1 J**	68.8	4.64	mg/kg dry	☼	01/09/12 14:51	01/10/12 23:50	10.0
Cobalt	**13.4**	**RL1 J**	68.8	1.82	mg/kg dry	☼	01/09/12 14:51	01/10/12 23:50	10.0
Copper	**41.4**	**RL1 J**	68.8	8.22	mg/kg dry	☼	01/09/12 14:51	01/10/12 23:50	10.0
Iron	**29700**		688	161	mg/kg dry	☼	01/09/12 14:51	01/10/12 23:50	10.0
Lead	ND	RL1	172	9.22	mg/kg dry	☼	01/09/12 14:51	01/10/12 23:50	10.0
Magnesium	**3640**		688	52.0	mg/kg dry	☼	01/09/12 14:51	01/10/12 23:50	10.0
Manganese	**317**		172	20.5	mg/kg dry	☼	01/09/12 14:51	01/10/12 23:50	10.0
Nickel	**24.6**	**RL1 J**	172	1.82	mg/kg dry	☼	01/09/12 14:51	01/10/12 23:50	10.0
Potassium	**669**	**RL1 J**	1720	174	mg/kg dry	☼	01/09/12 14:51	01/10/12 23:50	10.0
Selenium	ND	RL1	172	21.5	mg/kg dry	☼	01/09/12 14:51	01/10/12 23:50	10.0
Silver	ND	RL1	172	3.82	mg/kg dry	☼	01/09/12 14:51	01/10/12 23:50	10.0
Sodium	**472**	**RL1 J**	1720	152	mg/kg dry	☼	01/09/12 14:51	01/10/12 23:50	10.0
Thallium	ND	RL1	172	17.0	mg/kg dry	☼	01/09/12 14:51	01/10/12 23:50	10.0
Vanadium	**112**		68.8	1.86	mg/kg dry	☼	01/09/12 14:51	01/10/12 23:50	10.0
Zinc	**65.6**	**RL1 J**	344	35.8	mg/kg dry	☼	01/09/12 14:51	01/10/12 23:50	10.0

Client Sample Results

Client: Veolia Water North America -Canby
Project/Site: PWS #4100157

TestAmerica Job ID: PVA0116

Method: ASTM D2216-80 - Percent Dry Weight (Solids) per ASTM D2216-80

Client Sample ID: BW3
Date Collected: 01/04/12 15:00
Date Received: 01/05/12 10:35

Lab Sample ID: PVA0116-01
Matrix: Soil
Percent Solids: 29.1

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Solids	29.1		0.0100	0.0100	% by Weight		01/10/12 12:04	01/11/12 07:35	1.00

Client Sample Results

Client: Veolia Water North America -Canby
Project/Site: PWS #4100157

TestAmerica Job ID: PVA0116

Method: [CALC] - Conventional Chemistry Parameters per APHA/EPA Methods

Client Sample ID: BW3
Date Collected: 01/04/12 15:00
Date Received: 01/05/12 10:35

Lab Sample ID: PVA0116-01
Matrix: Soil
Percent Solids: 29.1

5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Nitrogen	14700		1800		mg/kg dry	☼	01/12/12 11:58	01/12/12 14:04	10.0

Client Sample Results

Client: Veolia Water North America -Canby
Project/Site: PWS #4100157

TestAmerica Job ID: PVA0116

Method: EPA 351.2 - Conventional Chemistry Parameters per APHA/EPA Methods

Client Sample ID: BW3
Date Collected: 01/04/12 15:00
Date Received: 01/05/12 10:35

Lab Sample ID: PVA0116-01
Matrix: Soil
Percent Solids: 29.1

5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	14700	P7	1800	561	mg/kg dry	☒	01/06/12 14:53	01/10/12 10:29	10.0

Client Sample Results

Client: Veolia Water North America -Canby
Project/Site: PWS #4100157

TestAmerica Job ID: PVA0116

Method: EPA 353.2 - Conventional Chemistry Parameters per APHA/EPA Methods

Client Sample ID: BW3
Date Collected: 01/04/12 15:00
Date Received: 01/05/12 10:35

Lab Sample ID: PVA0116-01
Matrix: Soil
Percent Solids: 29.1

5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate/Nitrite-Nitrogen	**6.45**		0.343	0.0685	mg/kg dry	☼	01/12/12 11:58	01/12/12 14:04	1.00

Client Sample Results

Client: Veolia Water North America -Canby
Project/Site: PWS #4100157

TestAmerica Job ID: PVA0116

Method: EPA 9045C - Conventional Chemistry Parameters per APHA/EPA Methods

Client Sample ID: BW3
Date Collected: 01/04/12 15:00
Date Received: 01/05/12 10:35

Lab Sample ID: PVA0116-01
Matrix: Soil
Percent Solids: 29.1

5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.27	H			pH Units		01/12/12 16:10	01/12/12 17:10	1.00

Client Sample Results

Client: Veolia Water North America -Canby
Project/Site: PWS #4100157

TestAmerica Job ID: PVA0116

Method: SM 2120B - Conventional Chemistry Parameters per Standard Methods

Client Sample ID: Raw — **Lab Sample ID: PVA0116-04**
Date Collected: 01/05/12 08:02 — **Matrix: Water**
Date Received: 01/05/12 10:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**15.0**		5.00		Color Units		01/05/12 12:20	01/05/12 17:34	1.00

Client Sample ID: Fin — **Lab Sample ID: PVA0116-05**
Date Collected: 01/05/12 08:02 — **Matrix: Water**
Date Received: 01/05/12 10:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	ND		5.00		Color Units		01/05/12 12:20	01/05/12 17:34	1.00

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Client Sample Results

Client: Veolia Water North America -Canby
Project/Site: PWS #4100157

TestAmerica Job ID: PVA0116

Method: SM 4500-NH3, H - Conventional Chemistry Parameters per APHA/EPA Methods

Client Sample ID: BW3
Date Collected: 01/04/12 15:00
Date Received: 01/05/12 10:35

Lab Sample ID: PVA0116-01
Matrix: Soil
Percent Solids: 29.1

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia-Nitrogen	9.28		1.71	0.417	mg/kg dry	☼	01/09/12 07:16	01/09/12 11:46	1.00

Method: SM 9223 - Microbiological Parameters per APHA Standard Methods

Client Sample ID: 1511 NE Laurelwood Circle
Date Collected: 01/05/12 08:25
Date Received: 01/05/12 10:35

Lab Sample ID: PVA0116-02
Matrix: Water

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Coliforms	ND		1.00	1.00	/100 ml		01/05/12 13:45	01/06/12 14:15	1.00
E. Coli	ND		1.00	1.00	/100 ml		01/05/12 13:45	01/06/12 14:15	1.00

Client Sample ID: 1709 SE 11th Pl.
Date Collected: 01/05/12 08:50
Date Received: 01/05/12 10:35

Lab Sample ID: PVA0116-03
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Coliforms	ND		1.00	1.00	/100 ml		01/05/12 13:45	01/06/12 14:15	1.00
E. Coli	ND		1.00	1.00	/100 ml		01/05/12 13:45	01/06/12 14:15	1.00

QC Sample Results

Client: Veolia Water North America -Canby
Project/Site: PWS #4100157

TestAmerica Job ID: PVA0116

Method: EPA 6010B - Total Metals per EPA 6000/7000 Series Methods

Lab Sample ID: 12A0183-BLK1
Matrix: Soil
Analysis Batch: 12A0183

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 12A0183_P

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Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		5.00	0.592	mg/kg wet		01/09/12 14:51	01/10/12 23:35	1.00
Antimony	ND		5.00	0.484	mg/kg wet		01/09/12 14:51	01/10/12 23:35	1.00
Arsenic	ND		5.00	0.429	mg/kg wet		01/09/12 14:51	01/10/12 23:35	1.00
Barium	ND		2.00	0.163	mg/kg wet		01/09/12 14:51	01/10/12 23:35	1.00
Beryllium	ND		2.00	0.00400	mg/kg wet		01/09/12 14:51	01/10/12 23:35	1.00
Cadmium	ND		2.00	0.0120	mg/kg wet		01/09/12 14:51	01/10/12 23:35	1.00
Calcium	ND		50.0	19.8	mg/kg wet		01/09/12 14:51	01/10/12 23:35	1.00
Chromium	ND		2.00	0.135	mg/kg wet		01/09/12 14:51	01/10/12 23:35	1.00
Cobalt	ND		2.00	0.0530	mg/kg wet		01/09/12 14:51	01/10/12 23:35	1.00
Copper	ND		2.00	0.239	mg/kg wet		01/09/12 14:51	01/10/12 23:35	1.00
Iron	4.93	J	20.0	4.69	mg/kg wet		01/09/12 14:51	01/10/12 23:35	1.00
Lead	ND		5.00	0.268	mg/kg wet		01/09/12 14:51	01/10/12 23:35	1.00
Magnesium	ND		20.0	1.51	mg/kg wet		01/09/12 14:51	01/10/12 23:35	1.00
Manganese	ND		5.00	0.596	mg/kg wet		01/09/12 14:51	01/10/12 23:35	1.00
Nickel	ND		5.00	0.0530	mg/kg wet		01/09/12 14:51	01/10/12 23:35	1.00
Potassium	ND		50.0	5.06	mg/kg wet		01/09/12 14:51	01/10/12 23:35	1.00
Selenium	ND		5.00	0.625	mg/kg wet		01/09/12 14:51	01/10/12 23:35	1.00
Silver	ND		5.00	0.111	mg/kg wet		01/09/12 14:51	01/10/12 23:35	1.00
Sodium	ND		50.0	4.41	mg/kg wet		01/09/12 14:51	01/10/12 23:35	1.00
Thallium	ND		5.00	0.494	mg/kg wet		01/09/12 14:51	01/10/12 23:35	1.00
Vanadium	ND		2.00	0.0540	mg/kg wet		01/09/12 14:51	01/10/12 23:35	1.00
Zinc	ND		10.0	1.04	mg/kg wet		01/09/12 14:51	01/10/12 23:35	1.00

Lab Sample ID: 12A0183-BS1
Matrix: Soil
Analysis Batch: 12A0183

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 12A0183_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	248	248		mg/kg wet		100	80 - 120
Antimony	49.5	47.7		mg/kg wet		96.4	80 - 120
Arsenic	49.5	49.0		mg/kg wet		99.0	80 - 120
Barium	248	248		mg/kg wet		100	80 - 120
Beryllium	24.8	24.2		mg/kg wet		98.0	80 - 120
Cadmium	24.8	24.9		mg/kg wet		101	80 - 120
Calcium	990	998		mg/kg wet		101	80 - 120
Chromium	49.5	50.3		mg/kg wet		102	80 - 120
Cobalt	49.5	50.6		mg/kg wet		102	80 - 120
Copper	49.5	51.0		mg/kg wet		103	80 - 120
Iron	248	262		mg/kg wet		106	80 - 120
Lead	49.5	52.2		mg/kg wet		105	80 - 120
Magnesium	990	988		mg/kg wet		99.8	80 - 120
Manganese	248	282		mg/kg wet		106	80 - 120
Nickel	49.5	50.4		mg/kg wet		102	80 - 120
Potassium	990	954		mg/kg wet		96.4	80 - 120
Selenium	49.5	48.2		mg/kg wet		97.3	80 - 120
Silver	24.8	24.7		mg/kg wet		99.7	80 - 120
Sodium	990	984		mg/kg wet		99.3	80 - 120
Vanadium	49.5	50.2		mg/kg wet		101	80 - 120
Zinc	49.5	50.3		mg/kg wet		102	80 - 120

Method: EPA 6010B - Total Metals per EPA 6000/7000 Series Methods (Continued)

Lab Sample ID: 12A0183-BS1
Matrix: Soil
Analysis Batch: 12A0183

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 12A0183_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	248	252		mg/kg wet		102	80 - 120

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Lab Sample ID: 12A0183-MS1
Matrix: Soil
Analysis Batch: 12A0183

Client Sample ID: BW3
Prep Type: Total
Prep Batch: 12A0183_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	47800		852	63400	MHA	mg/kg dry	☼	1830	75 - 125
Antimony	ND	RL1	170	107	M8 J	mg/kg dry	☼	62.9	75 - 125
Arsenic	ND	RL1	170	166	J	mg/kg dry	☼	97.7	75 - 125
Barium	117		852	901		mg/kg dry	☼	92.1	75 - 125
Beryllium	0.405	RL1 J	85.2	73.2		mg/kg dry	☼	85.5	75 - 125
Cadmium	ND	RL1	85.2	77.2		mg/kg dry	☼	90.6	75 - 125
Calcium	4060		3410	9390	MHA	mg/kg dry	☼	156	75 - 125
Chromium	30.2	RL1 J	170	191		mg/kg dry	☼	94.4	75 - 125
Cobalt	13.4	RL1 J	170	172		mg/kg dry	☼	93.1	75 - 125
Copper	41.4	RL1 J	170	207		mg/kg dry	☼	97.2	75 - 125
Iron	29700		852	36200	MHA	mg/kg dry	☼	771	75 - 125
Lead	ND	RL1	170	164	J	mg/kg dry	☼	96.2	75 - 125
Magnesium	3640		3410	8020	MHA	mg/kg dry	☼	129	75 - 125
Manganese	317		852	1270		mg/kg dry	☼	112	75 - 125
Nickel	24.6	RL1 J	170	185		mg/kg dry	☼	94.1	75 - 125
Potassium	669	RL1 J	3410	3840		mg/kg dry	☼	93.0	75 - 125
Selenium	ND	RL1	170	150	J	mg/kg dry	☼	88.2	75 - 125
Silver	ND	RL1	85.2	75.4	J	mg/kg dry	☼	88.6	75 - 125
Sodium	472	RL1 J	3410	4000		mg/kg dry	☼	103	75 - 125
Thallium	ND	RL1	852	771		mg/kg dry	☼	90.6	75 - 125
Vanadium	112		170	280		mg/kg dry	☼	98.3	75 - 125
Zinc	65.6	RL1 J	170	232	J	mg/kg dry	☼	97.9	75 - 125

Lab Sample ID: 12A0183-MSD1
Matrix: Soil
Analysis Batch: 12A0183

Client Sample ID: BW3
Prep Type: Total
Prep Batch: 12A0183_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	47800		843	49800	MHA	mg/kg dry	☼	240	75 - 125	24.0	40
Antimony	ND	RL1	169	111	M8 J	mg/kg dry	☼	65.8	75 - 125	3.55	40
Arsenic	ND	RL1	169	159	J	mg/kg dry	☼	94.0	75 - 125	4.79	40
Barium	117		843	849		mg/kg dry	☼	86.8	75 - 125	6.00	40
Beryllium	0.405	RL1 J	84.3	71.9		mg/kg dry	☼	84.8	75 - 125	1.78	40
Cadmium	ND	RL1	84.3	75.5		mg/kg dry	☼	89.5	75 - 125	2.20	40
Calcium	4060		3370	6950		mg/kg dry	☼	85.6	75 - 125	29.8	40
Chromium	30.2	RL1 J	169	177		mg/kg dry	☼	87.3	75 - 125	7.35	40
Cobalt	13.4	RL1 J	169	162		mg/kg dry	☼	86.4	75 - 125	5.70	40
Copper	41.4	RL1 J	169	193		mg/kg dry	☼	89.9	75 - 125	6.91	40
Iron	29700		843	24800	MHA	mg/kg dry	☼	-577	75 - 125	37.5	40
Lead	ND	RL1	169	157	J	mg/kg dry	☼	92.8	75 - 125	4.58	40
Magnesium	3640		3370	6170		mg/kg dry	☼	75.0	75 - 125	26.1	40
Manganese	317		843	1040		mg/kg dry	☼	85.5	75 - 125	20.0	40
Nickel	24.6	RL1 J	169	173		mg/kg dry	☼	87.8	75 - 125	6.86	40

Method: EPA 6010B - Total Metals per EPA 6000/7000 Series Methods (Continued)

Lab Sample ID: 12A0183-MSD1
Matrix: Soil
Analysis Batch: 12A0183

Client Sample ID: BW3
Prep Type: Total
Prep Batch: 12A0183_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Potassium	669	RL1 J	3370	3540		mg/kg dry	☼	85.0	75 - 125	8.11	40
Selenium	ND	RL1	169	141	J	mg/kg dry	☼	83.4	75 - 125	6.61	40
Silver	ND	RL1	84.3	75.4	J	mg/kg dry	☼	89.4	75 - 125	0.0306	40
Sodium	472	RL1 J	3370	3680		mg/kg dry	☼	95.0	75 - 125	8.34	40
Thallium	ND	RL1	843	759		mg/kg dry	☼	90.0	75 - 125	1.67	40
Vanadium	112		169	256		mg/kg dry	☼	84.8	75 - 125	9.13	40
Zinc	65.6	RL1 J	169	207	J	mg/kg dry	☼	84.0	75 - 125	11.4	40

Method: ASTM D2216-80 - Percent Dry Weight (Solids) per ASTM D2216-80

Lab Sample ID: 12A0199-DUP1
Matrix: Soil
Analysis Batch: 12A0199

Client Sample ID: BW3
Prep Type: Total
Prep Batch: 12A0199_P

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	RPD Limit
% Solids	29.1		29.2		% by Weight		0.372	20

Lab Sample ID: 12A0199-DUP2
Matrix: Soil
Analysis Batch: 12A0199

Client Sample ID: Duplicate
Prep Type: Total
Prep Batch: 12A0199_P

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	RPD Limit
% Solids	71.4		67.7		% by Weight		5.26	20

Method: EPA 351.2 - Conventional Chemistry Parameters per APHA/EPA Methods

Lab Sample ID: 12A0140-BLK1
Matrix: Other dry
Analysis Batch: 12A0140

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 12A0140_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	ND		48.8	15.2	mg/kg wet		01/06/12 14:53	01/10/12 10:29	1.00

Lab Sample ID: 12A0140-BS1
Matrix: Other dry
Analysis Batch: 12A0140

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 12A0140_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	509	470		mg/kg wet		92.4	90 - 110

Lab Sample ID: 12A0140-MS1
Matrix: Other dry
Analysis Batch: 12A0140

Client Sample ID: BW3
Prep Type: Total
Prep Batch: 12A0140_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	14700	P7	1880	13800	P7 MHA	mg/kg dry	☼	-47.0	75 - 125

Method: EPA 351.2 - Conventional Chemistry Parameters per APHA/EPA Methods (Continued)

Lab Sample ID: 12A0140-DUP1 — **Client Sample ID: BW3**
Matrix: Other dry — **Prep Type: Total**
Analysis Batch: 12A0140 — **Prep Batch: 12A0140_P**

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	RPD Limit
Total Kjeldahl Nitrogen	14700	P7	17100	P7	mg/kg dry	☼	15.2	40

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Method: EPA 353.2 - Conventional Chemistry Parameters per APHA/EPA Methods

Lab Sample ID: 12A0277-BLK1 — **Client Sample ID: Method Blank**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 12A0277 — **Prep Batch: 12A0277_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate/Nitrite-Nitrogen	ND		0.0995	0.0199	mg/kg wet		01/12/12 11:58	01/12/12 14:04	1.00

Lab Sample ID: 12A0277-BS1 — **Client Sample ID: Lab Control Sample**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 12A0277 — **Prep Batch: 12A0277_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate/Nitrite-Nitrogen	1.00	1.06		mg/kg wet		106	85 - 115

Lab Sample ID: 12A0277-MS1 — **Client Sample ID: BW3**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 12A0277 — **Prep Batch: 12A0277_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate/Nitrite-Nitrogen	6.45		3.43	14.1	M1	mg/kg dry	☼	223	75 - 125

Lab Sample ID: 12A0277-MSD1 — **Client Sample ID: BW3**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 12A0277 — **Prep Batch: 12A0277_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate/Nitrite-Nitrogen	6.45		3.45	11.9	M1	mg/kg dry	☼	158	75 - 125	16.9	40

Lab Sample ID: 12A0277-DUP1 — **Client Sample ID: BW3**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 12A0277 — **Prep Batch: 12A0277_P**

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	RPD Limit
Nitrate/Nitrite-Nitrogen	6.45		9.11		mg/kg dry	☼	34.1	40

Method: EPA 9045C - Conventional Chemistry Parameters per APHA/EPA Methods

Lab Sample ID: 12A0276-DUP1 — **Client Sample ID: BW3**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 12A0276 — **Prep Batch: 12A0276_P**

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	RPD Limit
pH	6.27	H	6.18		pH Units		1.45	25

Method: SM 2120B - Conventional Chemistry Parameters per Standard Methods

Lab Sample ID: 12A0094-BLK1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total**
Analysis Batch: 12A0094 — **Prep Batch: 12A0094_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	ND		5.00		Color Units		01/05/12 12:20	01/05/12 17:34	1.00

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Lab Sample ID: 12A0094-BS1 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total**
Analysis Batch: 12A0094 — **Prep Batch: 12A0094_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Color	20.0	20.0		Color Units		100	80 - 120

Lab Sample ID: 12A0094-DUP1 — **Client Sample ID: Duplicate**
Matrix: Water — **Prep Type: Total**
Analysis Batch: 12A0094 — **Prep Batch: 12A0094_P**

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	RPD Limit
Color	0.00		ND		Color Units			20

Method: SM 4500-NH3, H - Conventional Chemistry Parameters per APHA/EPA Methods

Lab Sample ID: 12A0151-BLK1 — **Client Sample ID: Method Blank**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 12A0151 — **Prep Batch: 12A0151_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia-Nitrogen	ND		0.500	0.122	mg/kg wet		01/09/12 07:16	01/09/12 11:48	1.00

Lab Sample ID: 12A0151-BS1 — **Client Sample ID: Lab Control Sample**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 12A0151 — **Prep Batch: 12A0151_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia-Nitrogen	19.8	22.0		mg/kg wet		111	85 - 115

Lab Sample ID: 12A0151-MS1 — **Client Sample ID: BW3**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 12A0151 — **Prep Batch: 12A0151_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia-Nitrogen	9.28		68.9	7.88	M2	mg/kg dry	☼	-2.03	75 - 125

Lab Sample ID: 12A0151-MSD1 — **Client Sample ID: BW3**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 12A0151 — **Prep Batch: 12A0151_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia-Nitrogen	9.28		67.9	80.5	R2	mg/kg dry	☼	105	75 - 125	164	20

QC Association Summary

Client: Veolia Water North America -Canby
Project/Site: PWS #4100157

TestAmerica Job ID: PVA0116

Metals

Analysis Batch: 12A0183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12A0183-BLK1	Method Blank	Total	Soil	EPA 6010B	12A0183_P
12A0183-BS1	Lab Control Sample	Total	Soil	EPA 6010B	12A0183_P
12A0183-MS1	BW3	Total	Soil	EPA 6010B	12A0183_P
12A0183-MSD1	BW3	Total	Soil	EPA 6010B	12A0183_P
PVA0116-01	BW3	Total	Soil	EPA 6010B	12A0183_P

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Prep Batch: 12A0183_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12A0183-BLK1	Method Blank	Total	Soil	EPA 3050	
12A0183-BS1	Lab Control Sample	Total	Soil	EPA 3050	
12A0183-MS1	BW3	Total	Soil	EPA 3050	
12A0183-MSD1	BW3	Total	Soil	EPA 3050	
PVA0116-01	BW3	Total	Soil	EPA 3050	

Sample Control

Analysis Batch: 12A0199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12A0199-DUP1	BW3	Total	Soil	ASTM D2216-80	12A0199_P
12A0199-DUP2	Duplicate	Total	Soil	ASTM D2216-80	12A0199_P
PVA0116-01	BW3	Total	Soil	ASTM D2216-80	12A0199_P

Prep Batch: 12A0199_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12A0199-DUP1	BW3	Total	Soil	Dry Weight	
12A0199-DUP2	Duplicate	Total	Soil	Dry Weight	
PVA0116-01	BW3	Total	Soil	Dry Weight	

Wet Chem

Analysis Batch: 12A0094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12A0094-BLK1	Method Blank	Total	Water	SM 2120B	12A0094_P
12A0094-BS1	Lab Control Sample	Total	Water	SM 2120B	12A0094_P
12A0094-DUP1	Duplicate	Total	Water	SM 2120B	12A0094_P
PVA0116-04	Raw	Total	Water	SM 2120B	12A0094_P
PVA0116-05	Fin	Total	Water	SM 2120B	12A0094_P

Analysis Batch: 12A0140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12A0140-BLK1	Method Blank	Total	Other dry	EPA 351.2	12A0140_P
12A0140-BS1	Lab Control Sample	Total	Other dry	EPA 351.2	12A0140_P
12A0140-DUP1	BW3	Total	Other dry	EPA 351.2	12A0140_P
12A0140-MS1	BW3	Total	Other dry	EPA 351.2	12A0140_P
PVA0116-01	BW3	Total	Soil	EPA 351.2	12A0140_P

Analysis Batch: 12A0151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12A0151-BLK1	Method Blank	Total	Soil	SM 4500-NH3, H	12A0151_P
12A0151-BS1	Lab Control Sample	Total	Soil	SM 4500-NH3, H	12A0151_P
12A0151-MS1	BW3	Total	Soil	SM 4500-NH3, H	12A0151_P
12A0151-MSD1	BW3	Total	Soil	SM 4500-NH3, H	12A0151_P

QC Association Summary

Client: Veolia Water North America -Canby
Project/Site: PWS #4100157

TestAmerica Job ID: PVA0116

Wet Chem (Continued)

Analysis Batch: 12A0151 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
PVA0116-01	BW3	Total	Soil	SM 4500-NH3, H	12A0151_P

Analysis Batch: 12A0276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12A0276-DUP1	BW3	Total	Soil	EPA 9045C	12A0276_P
PVA0116-01	BW3	Total	Soil	EPA 9045C	12A0276_P

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Analysis Batch: 12A0277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12A0277-BLK1	Method Blank	Total	Soil	EPA 353.2	12A0277_P
12A0277-BS1	Lab Control Sample	Total	Soil	EPA 353.2	12A0277_P
12A0277-DUP1	BW3	Total	Soil	EPA 353.2	12A0277_P
12A0277-MS1	BW3	Total	Soil	EPA 353.2	12A0277_P
12A0277-MSD1	BW3	Total	Soil	EPA 353.2	12A0277_P
PVA0116-01	BW3	Total	Soil	EPA 353.2	12A0277_P

Prep Batch: 12A0094_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12A0094-BLK1	Method Blank	Total	Water	General Preparation	
12A0094-BS1	Lab Control Sample	Total	Water	General Preparation	
12A0094-DUP1	Duplicate	Total	Water	General Preparation	
PVA0116-04	Raw	Total	Water	General Preparation	
PVA0116-05	Fin	Total	Water	General Preparation	

Prep Batch: 12A0140_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12A0140-BLK1	Method Blank	Total	Other dry	General Preparation	
12A0140-BS1	Lab Control Sample	Total	Other dry	General Preparation	
12A0140-DUP1	BW3	Total	Other dry	General Preparation	
12A0140-MS1	BW3	Total	Other dry	General Preparation	
PVA0116-01	BW3	Total	Soil	General Preparation	

Prep Batch: 12A0151_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12A0151-BLK1	Method Blank	Total	Soil	General Preparation	
12A0151-BS1	Lab Control Sample	Total	Soil	General Preparation	
12A0151-MS1	BW3	Total	Soil	General Preparation	
12A0151-MSD1	BW3	Total	Soil	General Preparation	
PVA0116-01	BW3	Total	Soil	General Preparation	

Wet Chem (Continued)

Prep Batch: 12A0276_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12A0276-DUP1	BW3	Total	Soil	General Preparation	
PVA0116-01	BW3	Total	Soil	General Preparation	

Prep Batch: 12A0277_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12A0277-BLK1	Method Blank	Total	Soil	General Preparation	
12A0277-BS1	Lab Control Sample	Total	Soil	General Preparation	
12A0277-DUP1	BW3	Total	Soil	General Preparation	
12A0277-MS1	BW3	Total	Soil	General Preparation	
12A0277-MSD1	BW3	Total	Soil	General Preparation	
PVA0116-01	BW3	Total	Soil	General Preparation	

Microbiology

Analysis Batch: 12A0103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
PVA0116-02	1511 NE Laurelwood Circle	Total	Water	SM 9223	12A0103_P
PVA0116-03	1709 SE 11th Pl.	Total	Water	SM 9223	12A0103_P

Prep Batch: 12A0103_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
PVA0116-02	1511 NE Laurelwood Circle	Total	Water	Aqueous Micro	
PVA0116-03	1709 SE 11th Pl.	Total	Water	Aqueous Micro	

Certification Summary

Client: Veolia Water North America -Canby
Project/Site: PWS #4100157

TestAmerica Job ID: PVA0116

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Portland	Alaska	State Program	10	OR00040
TestAmerica Portland	Alaska (UST)	State Program	10	UST-012
TestAmerica Portland	California	State Program	9	2597
TestAmerica Portland	Oregon	NELAC	10	OR100021
TestAmerica Portland	USDA	Federal		P330-11-00092
TestAmerica Portland	Washington	State Program	10	C586

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244 425-420-9200 FAX 420-9210
11922 E. First Ave, Spokane, WA 99206-5302 509-924-9200 FAX 924-9290
9405 SW Nimbus Ave,Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210
2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: PUA0116

CLIENT: UWNA

REPORT TO: PO Box 670
ADDRESS: Canby Oregon 97013

PHONE: 266-6400 FAX: 266-6404

INVOICE TO: Same

P.O. NUMBER:

PROJECT NAME: Canby Utility

PROJECT NUMBER: 4100157

SAMPLED BY: BH

TURNAROUND REQUEST
in Business Days *
Organic & Inorganic Analyses: 10 (STD.) 7 5 4 3 2 1 <1
Petroleum Hydrocarbon Analyses: 5 (STD.) 4 3 2 1 <1
OTHER Specify:
* Turnaround Requests less than standard may incur Rush Charges.

PRESERVATIVE

REQUESTED ANALYSES

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	ISM01.3 Metals	Ammonia	Total Nitrogen	pH	TOTCOLI P/A	E COLI P/A	Color	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1	BW3	1/4/12 15:00	X	X	X	X				S	1	5DAY	
2	1511 NE Laurelwood Circle	1-5-12 0825					X	X		W	1	Routine	
3	1769 SE 11th Pl	1-5-12 0850					X	X		W	1	Routine	
4	RAW	1/5/12 0900							X	W	1	Routine	
5	FIN	1/5/12 0900							X	W	1	Routine	
6													
7													
8													
9													
10													

RELEASED BY:		DATE: 1-5-12	RECEIVED BY:		DATE: 1/5/12
PRINT NAME: Dean Haney	FIRM: UWNA	TIME: 9:15	PRINT NAME: Bob	FIRM: TAP	TIME: 9:15
RELEASED BY:		DATE: 1/5/12	RECEIVED BY:		DATE: 1/5/12
PRINT NAME: Bob	FIRM: TAP	TIME: 10:35	PRINT NAME: PHIL SVABIK-SEKA	FIRM: TAP	TIME: 1035

ADDITIONAL REMARKS:

TEMP: 3.3

PAGE OF

TAL-1000(0408)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Portland Sample Control Checklist

Work Order #: PVA0116 **Date/Time Received:** 1/5/12 @ 1035

Client Name: VWNA

Project Name: CANBY

Time Zone:

☐EDT/EST ☐CDT/CST ☐MDT/MST ☑PDT/PST ☐AK ☐HI ☐OTHER

9

Unpacking Checks:

Cooler (s): 1

Temperature (s): 3.5

Digi #1 ☐ Digi #2 ☐ IR Gun ☑ (☐Plastic ☐Glass)

IR Gun- Degree ☐ (☐Plastic)

Temperature out of Range:

__Not enough or No Ice

__Ice Melted

__W/in 4 Hrs of collection

__Ice Not Needed

__ Other:_____

Ice used: (circle one) GEL LOOSE BLUE NONE OTHER: _____ **Initials:** PS

N/A	Yes	No	
☑	☐	☐	1. If ESI client, were temp blanks received? If no, document on NOD.
☑	☐	☐	2. Custody seals intact? If ESI client and no is checked, document on NOD.
	☑	☐	3. Chain of Custody present? If no, document on NOD. Along with "received by" & "relinquished by" signatures with date & time?
	☑	☐	4. Bottles received intact? If no, document on NOD.
	☑	☐	5. Sample is not multiphasic? If no, document on NOD.
	☑	☐	6. Sampler name/signature documented on COC?
	☑	☐	7. Proper container and preservatives used? If no, document on NOD.
☑	☐	☐	8. pH for ESI samples checked and meets requirements? If no, document on NOD.
☑	☐	☐	9. Cyanide samples checked for sulfides and meets requirements? If no, notify PM.
☑	☐	☐	10. HF Dilution required?
	☑	☐	11. Sufficient volume provided for all analysis and requested MS/MSD? If no, document on NOD and consult PM before proceeding.
	☑	☐	12. Did Chain of Custody agree with samples received? If no, document on NOD.
☑	☐	☐	13. Were VOA vial samples received without headspace?
☑	☐	☐	14. Did samples require preservation with sodium thiosulfate?
☑	☐	☐	15. If yes to #14, was the residual chlorine test negative? If no, document on NOD.
☑	☐	☐	16. Are dissolved/field filtered metals bottles sediment-free? If no, document on NOD.
☐	☑	☐	17. Are analyses with short holding times received in hold?
☐	☑	☐	18. Were special log- in instructions read and followed?
☐	☑	☐	19. Were lab sample labels verified against the client sample labels?

Checklist Reviewed: **Log-in initials:** PS **Labeler initials:** PS

9405 SW Nimbus Ave, Beaverton OR 97008 tel 503.906.9200 fax 503.906.9210 www.testamericainc.com

ATTACHMENT

September 27, 2011, Canby Utility,
Clean Fill Table for Uplands (metals)

Clean Fill Table for Uplands				
	Clean Fill Value	Note	Value could change in the near future to approximately	Note
INORGANICS				
Aluminum	50	b	~98000	d
Antimony and compounds	4	a	~0.253 to ~0.446	c
Arsenic III	7	a	~5.156 to ~14.08	c
Barium and compounds	85	b	~536.7 to ~686.6	c
Beryllium and compounds	10	b	~1.370 to ~1.634	c
Bismuth	20	b		
Boron	0.5	b	~30	e
Bromine	10	b		
Cadmium and compounds	1	a	~0.314 to ~1.796	c
Chromium III	42	a	~86.47 to ~90.2	c
Chromium VI	410	b	130	f
Cobalt	20	b	~29	d
Copper and compounds	36	a	~39.11 to ~43.11	c
Fluorine (soluble fluoride)	30	b	~483	e
Iron	10	b	~81000	d
Iodine	4	b	~6.68	e
Lanthanum	50	b		
Lead	17	a	~13.47 to ~18.46	c
Lithium	2	b	~27	d
Manganese and compounds	100	b	~1083 to ~1158	c
Mercury (elemental, total)	0.07	a	~1.233 to ~2.173	c
Mercury (methyl)	0.0002	b		
Molybdenum	2	b	~3.46	e
Nickel	38	a	~48.56 to ~303.1	c
Niobium	9	b	~18	d
Selenium	2	a	~5.885 to ~95.11	c
Silver and compounds	1	a	~0.139 to ~1.965	c
Strontium	32875	b	~317	d
Technetium	0.2	b		
Tellurium	2	b		
Thallium	1	b	~0.586 to ~2.076	c
Tin (inorganic)	50	b		
Titanium	1000	b	~8459	e
Tungsten	400	b		
Uranium	5	b		
Vanadium	2	b	~160.2 to ~249.1	c
Zinc	86	a	~94.92 to ~95.74	c
Zirconium	97	b	~187	e

Notes:

a - Table 1, Human Health Risk Assessment Guidance, DEQ (2010)
http://www.deq.state.or.us/lq/pubs/docs/cu/HumanHealthRiskAssessmentGuidance.pdf

b - Table 1, Guidance for Ecological Risk Assessment, Level II Screening Level Values, DEQ (2001). http://www.deq.state.or.us/lq/pubs/docs/cu/GuidanceEcologicalRisk.pdf

c - Oregon Background Metals Evaluation, GeoEngineers under contract to DEQ (2010 and 2011)

d - Ames and Hawkings, 1997. Statistical Analysis and Areal Trends of Background Concentrations of Metals in Soils of Clark County, Washington. USGS Water-Resources Investigations Report 96-4252.

e - Mean plus one standard deviation, Boerngen and Shacklette, 1981. Geochemical analysis of soils and other surficial materials of the counterminous United States. USGS open-file report 81-197.

f - EPA, 2008. Ecological Soil Screening Levels for Chromium, Interim Final. http://www.epa.gov/ecotox/ecossl/pdf/eco-ssl_chromium.pdf

September 27, 2011, as provided by Bill Mason, DEQ

ATTACHMENT

November 15, 2011, DEQ,
Risk-Based Concentrations Table

RISK-BASED CONCENTRATIONS

Contaminated Medium →		SOIL mg/Kg (ppm)										SOIL mg/Kg (ppm)						SOIL mg/Kg (ppm)						SOIL mg/Kg (ppm)						GROUNDWATER (µg/L (ppb))					
Exposure Pathway →		Soil Ingestion, Dermal Contact, and Inhalation (RBC_{SS})										Volatilization to Outdoor Air (RBC_{SO})						Vapor Intrusion into Buildings (RBC_{SV})						Leaching to Groundwater (RBC_{SW})						Ingestion & Inhalation from Tapwater (RBC_{TW})					
Receptor Scenario →		Residential		Urban Residential		Occupational		Construction Worker		Excavation Worker		Residential		Urban Residential		Occupational		Residential		Urban Residential		Occupational		Residential		Urban Residential		Occupational		Residential		Urban Residential		Occupational	
Direct or Indirect Pathway (see notes)		DC		DC		DC		DC		DC		IVS		IVS		IVS		IVS		IVS		IVS		IS		IS		IS		DS		DS		DS	
Contaminant of Concern	Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note
Acenaphthene	nc, v	4,700	>Csat	9,400	>Csat	61,000	>Csat	19,000	>Csat	520,000	>Csat	-	>Max	-	>Max	-	>Max	-	>Max	-	>Max	-	>Max	-	>Csat	-	>Csat	-	>Csat	2,200		-	>S	-	
Acrylonitrile	c, v	0.78		2.5		3.6		35		980		1.1		3.1		5.8		0.062		0.17		0.94		0.00029		0.0013		0.0017		0.043		0.19		0.24	
Aldrin	c, v	0.025		0.072		0.11		0.95		26	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	0.011		0.054		0.061		0.00077		0.0037		0.0041	
Anthracene	nc, v	23,000	>Csat	47,000	>Csat	310,000	>Csat	93,000	>Csat	-	>Max	-	>Max	-	>Max	-	>Max	-	>Max	-	>Max	-	>Max	-	>Csat	-	>Csat	-	>Csat	-	>S	-	>S	-	
Arsenic	c, nv	0.39		1.0		1.7		13		370		-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	*		*		*		0.038		0.13		0.27	
Barium	nc, nv	15,000		31,000		190,000		60,000		-	>Max	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	*		*		*		7,300		15,000		29,000	
Benz[a]anthracene	c, nv	0.15		0.34		2.7		21	>Csat	590	>Csat	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	3.5		10		-	>Csat	0.029		0.088		0.56	
Benzene	c, v	7.3		24		34		340		9,500	>Csat	10.0		27		50		0.080		0.22		1.2		0.0093		0.042		0.053		0.39		1.7		2.2	
Benzidine	c, nv	0.00050		0.0011		0.0094		0.073		2.0		-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	0.000077		0.00023		0.0015		0.000094		0.00028		0.0018	
Benzo[a]pyrene	c, nv	0.015		0.034		0.27		2.1		59	>Csat	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	0.90		2.7		-	>Csat	0.0029		0.0088		0.056	
Benzo[b]fluoranthene	c, v	0.15		0.34		2.7		21	>Csat	590	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	4.0		-	>Csat	-	>Csat	0.011		0.039		0.16	
Benzo[k]fluoranthene	c, nv	1.5		3.4		27	>Csat	210	>Csat	5,900	>Csat	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	-	>Csat	-	>Csat	-	>Csat	0.29		-	>S	-	
Beryllium	c*, nv	160		310		2,000		610		17,000		-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	*		*		*		73		150		290	
Bis(2-ethylhexyl)phthalate	c, nv	35		93		150	>Csat	1,200	>Csat	33,000	>Csat	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	140		-	>Csat	-	>Csat	4.1		14		29	
Bromodichloromethane	c, v	3.0		12		15		210		5,800	>Csat	2.1		5.7		11		0.13		0.35		1.9		0.0025		0.012		0.013		0.12		0.59		0.60	
Bromoform	c, v	51		170		240		2,400	>Csat	66,000	>Csat	71		190		550		36		99		550		0.084		0.37		0.48		2.7		12		16	
Bromomethane	nc, v	46		92		710		330		9,200	>Csat	170		170		700		1.3		1.3		17		0.098		0.20		0.41		8.7		17		36	
Cadmium	c*, nv	39		78		510		150		4,300		-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	*		*		*		18		37		73	
Carbon tetrachloride	c, v	6.7		20		31		280		7,900	>Csat	13		35		65		0.10		0.28		1.6		0.028		0.12		0.16		0.41		1.7		2.4	
Chlorobenzene	nc, v	530		1,100	>Csat	8,300	>Csat	4,300	>Csat	120,000	>Csat	-	>Csat	-	>Csat	-	>Csat	59		59		-	>Csat	6.5		13		27		91		180		380	
Chlorodibromomethane	c, v	3.3		12		16		190		5,300	>Csat	2.9		7.8		14		0.59		1.6		9.0		0.0033		0.016		0.018		0.14		0.69		0.77	
Chloroethane	c, v	160,000	>Csat	320,000	>Csat	-	>Max	-	>Max	-	>Max	-	>Csat	-	>Csat	-		-	>Csat	-	>Csat	-	>Csat	320		650		1,400		21,000		42,000		88,000	
Chloroform	c, v	5.1		22		25		380		11,000	>Csat	3.4		9.2		17		0.027		0.074		0.41		0.0033		0.017		0.017		0.19		0.98		0.99	
Chloromethane	nc, v	1,400	>Csat	2,900	>Csat	25,000	>Csat	25,000	>Csat	700,000	>Csat	-	>Csat	-	>Csat	-	>Csat	24		24		300		2.2		4.5		9.4		190		380		790	
Chordane	c, v	1.6		4.2		7.0		55	>Csat	1,500	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	1.3		6.5		7.3		0.037		0.18		0.20	
Chromium (III)	nc, nv	120,000		230,000		-	>Max	460,000		-	>Max	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	*		*		*		55,000		110,000		220,000	
Chromium (VI)	c, nv	0.29		0.66		5.5		43		1,200		-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	*		*		*		0.043		0.13		0.82	
Chrysene	c, v	14	>Csat	32	>Csat	250	>Csat	2,100	>Csat	57,000	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	0.16		0.66		-	
Copper	nc, nv	3,100		6,200		41,000		12,000		340,000		-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	*		*		*		1,500		2,900		5,800	
Cyanide (hydrogen cyanide) *	nc, nv	47		94		610		190		5,100		-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	*		*		*		22		44		88	
DDD (4,4'-Dichlorodiphenyldichloroethane)	c, nv	2.4		6.4		11		83		2,300	>Csat	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	71		250		-	>Csat	0.24		0.82		1.7	
DDE (4,4'-Dichlorodiphenyldichloroethene)	c, v	1.7		4.5		7.6		58		1,600		-	>Csat	-	>Max	-	>Max	-	>Csat	-	>Max	-	>Max	52		250		280		0.039		0.19		0.21	
DDT (4,4'-Dichlorodiphenyltrichloroethane)	c, nv	1.7		4.5		7.7		58		1,600	>Csat	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	130		-	>Csat	-	>Csat	0.17		0.58		1.2	
Dibenz[a,h]anthracene	c, nv	0.015		0.034		0.27		2.1		59	>Csat	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	3.4		-	>Csat	-	>Csat	0.0029		0.0088		0.056	
Dichlorobenzene, 1,2-	nc, v	2,200	>Csat	4,400	>Csat	35,000	>Csat	19,000	>Csat	520,000	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	70		140		290		370		740		1,500	
Dichlorobenzene, 1,4-	c, v	13		62		63		1,200	>Csat	34,000	>Csat	7.1		19		36		1.1		3.0		17		0.081		0.43		0.41		0.42		2.3		2.2	
Dichlorobenzidine, 3,3-	c, nv	1.1		2.9		4.8		37	>Csat	1,000	>Csat	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	0.028		0.097		0.20		0.13		0.44		0.91	
Dichloroethane, 1,1-	c, v	52		190		250		2,900	>Csat	81,000	>Csat	49		130		240		0.39		1.1		5.9		0.037		0.18		0.20		2.3		11		13	
Dichloroethene, 1,1-	nc, v	1,800	>Csat	3,500	>Csat	27,000	>Csat	12,000	>Csat	340,000	>Csat	-	>Csat	-	>Csat	-	>Csat	54		54		680		11		22		45		340		680		1,400	
Dichloroethene, cis-1,2-	nc, v	160		310		2,000	>Csat	620		17,000	>Csat	-	>Max	-	>Max	-	>Max	-	>Max	-	>Max	-		1.2		2.4		4.8		73		150		290	
Dichloroethene, trans-1,2-	nc, v	590		1,200		9,200	>Csat	4,500	>Csat	130,000	>Csat	2,000		2,000		-	>Csat	16		16		200		2.5		5.0		10		110		210		450	
Dichloroethylether	c, v	0.26		0.96		1.2		15		410		0.24		0.64		3.5		0.23		0.64		3.5		0.00010		0.00048		0.00054		0.011		0.055		0.062	
Dichloromethane	c, v	68		200		310		2,700	>Csat	75,000	>Csat	170		450		830		1.3		3.6		20		0.038		0.15		0.23		4.4		18		27	
Dichlorophenoxyacetic acid, 2,4- (2,4-D)	nc, nv	610	>Csat	1,200	>Csat	7,700	>Csat	2,400	>Csat	66,000	>Csat	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	4.8		9.5		19		370		730		1,500	
Dieldrin	c, v	0.029		0.080		0.13		1.0		29	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	0.0052		0.025		0.028		0.00081		0.0039		0.0044	
Dinitrotoluene, 2,6-	nc, nv	61		120		770	>Csat	240		6,600	>Csat	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	4.2		8.4		17		37		73		150	
Di-n-propylnitrosamine	c, nv	0.069		0.19		0.31		2.4		66		-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	0.0012		0.0042		0.0087		0.0081		0.028		0.058	
Dioxane, 1,4-	c, nv	5.8		15		26		200		5,500		-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	0.0026		0.0089		0.019		0.57		2.0		4.1	
Diphenylnitrosamine	c, nv	99		270	>Csat	440	>Csat	3,400	>Csat	95,000	>Csat	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	4.5		16		33		12		40		83	
EDB (1,2-dibromoethane)	c, v	0.14		0.53		0.68		8.1		230		0.13		0.35		0.65		0.0095		0.026		0.14		0.000081		0.00039		0.00044		0.0063		0.031		0.034	
EDC (1,2-dichloroethane)	c, v	3.2		12		15		180		5,000	>Csat	3.0		8.1		15		0.039		0.11		0.59		0.0014		0.0068		0.0077		0.14		0.69		0.78	
Endosulfan, (alpha-beta)	nc, v	370	>Csat	730	>Csat	4,600	>Csat	1,400	>Csat	40,000	>Csat	-	>Max	-	>Max	-	>Max	-	>Max	-	>Max	-	>Max	-	>Csat	-	>Csat	-	>Csat	220		440		-	
Endrin	nc, nv	18	>Csat	37	>Csat	230	>Csat	71	>Csat	2,000	>Csat	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	-	>Csat	-	>Csat	-	>Csat	11		22		44	
Ethylbenzene	c, v	30		110		140		1,600	>Csat	44,000	>Csat	31		85		160		0.82		2.2		12		0.16		0.77		0.90		1.4		6.7		7.8	
Fluoranthene	nc, v	2,300	>Csat	4,600	>Csat	29,000	>Csat	8,900	>Csat	250,000	>Csat	-	>Max	-	>Max	-	>Max	-	>Max	-	>Max	-	>Max	-	>Csat	-	>Csat	-	>Csat	-	>S	-	>S	-	
Fluorene	nc, v	3,100	>Csat	6,300	>Csat	41,000	>Csat	12,000	>Csat	340,000	>Csat	-	>Max	-	>Max	-	>Max	-	>Max	-	>Max	-	>Max	-	>Csat	-	>Csat	-	>Csat	1,500		-	>S	-	
Formaldehyde	c*, nv	16,000		31,000	>Csat	200,000	>Csat	62,000	>Csat	-	>Max	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	33		66		130		7,300		15,000		29,000	

Contaminated Medium →		SOIL mg/Kg (ppm)										SOIL mg/Kg (ppm)						SOIL mg/Kg (ppm)						SOIL mg/Kg (ppm)						GROUNDWATER (µg/L (ppb))					
Exposure Pathway →		Soil Ingestion, Dermal Contact, and Inhalation (RBC_{SS})										Volatilization to Outdoor Air (RBC_{SG})						Vapor Intrusion into Buildings (RBC_{SI})						Leaching to Groundwater (RBC_{SW})						Ingestion & Inhalation from Tapwater (RBC_{TW})					
Receptor Scenario →		Residential		Urban Residential		Occupational		Construction Worker		Excavation Worker		Residential		Urban Residential		Occupational		Residential		Urban Residential		Occupational		Residential		Urban Residential		Occupational		Residential		Urban Residential		Occupational	
Direct or Indirect Pathway (see notes)		DC		DC		DC		DC		DC		IVS		IVS		IVS		IVS		IVS		IVS		IS		IS		IS		DS		DS		DS	
Contaminant of Concern	Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note
Heptachlor	c, v	0.10		0.28		0.46		3.7		100		280		760		-	>Csat	280		760		-	>Csat	1.2		5.9		6.6		0.0029		0.014		0.016	
Heptachlor Epoxide	c, nv	0.053		0.14		0.24		1.8		51		-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	0.16		0.54		1.1		0.0062		0.022		0.045	
Hexachlorobenzene	c, v	0.26		0.84		1.2		12		330		5.3		14		79		5.3		14		79		0.13		0.65		0.73		0.0081		0.039		0.044	
Hexachlorocyclohexane, alpha- (alpha-HCH)	c, v	0.070		0.20		0.31		2.6		71	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	0.0011		0.0053		0.0060		0.0021		0.010		0.011	
Hexachlorocyclohexane, gamma- (Lindane)	c, v	0.38		1.1		1.7		15		400	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	0.0039		0.019		0.021		0.012		0.058		0.065	
Hexachloroethane	c*, v	19		66		90		240		6,600	>Csat	150		400		-	>Csat	150		400		-	>Csat	0.51		2.4		2.7		0.94		4.5		5.1	
Indeno[1,2,3-cd]pyrene	c, nv	0.15		0.34		2.7	>Csat	21	>Csat	590	>Csat	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	-	>Csat	-	>Csat	-	>Csat	-	>S	-	>S	-	
Lead	NA, nv	400	L	400	L	800	L	800	L	800	L	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	30	L	30	L	30	L	15	L	15	L	15	
Manganese	nc, nv	1,800		3,600		23,000		7,200		200,000		-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	*		*		*		880		1,800		3,500	
MCPA ((4-chloro-2-methylphenoxy)acetic acid)	nc, nv	31		61		380	>Csat	120		3,300	>Csat	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	0.24		0.48		0.95		18		37		73	
Mercury	nc, nv	23		47		310		93		2,600		-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	*		*		*		11		22		44	
MTBE (methyl t-butyl ether)	c, v	220		720		1,000		10,000	>Csat	290,000	>Csat	300		810		1,500		4.9		13		74		0.092		0.41		0.52		12		53		67	
Naphthalene	c, v	4.6		25		23		580	>Csat	16,000	>Csat	6.5		18		99		6.5		18		99		0.087		0.47		0.44		0.14		0.78		0.72	
Nickel	c*, nv	1,500		3,100		20,000		6,100		170,000		-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	*		*		*		730		1,500		2,900	
Pentachlorophenol	c, nv	0.89		2.4		3.9		31		860		-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	0.14		0.50		1.0		0.14		0.49		1.0	
Polychlorinated biphenyls (PCBs)	c*, v	0.20		0.31		0.56		4.4	>Csat	120	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	0.11		0.55		0.62		0.005		0.024		0.027	
Propylbenzene, iso-	nc, v	3,500	>Csat	7,000	>Csat	53,000	>Csat	24,000	>Csat	670,000	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	680		1,400		2,800	
Pyrene	nc, v	1,700	>Csat	3,400	>Csat	21,000	>Csat	6,700	>Csat	190,000	>Csat	-		-		-		-		-		-		-	>Csat	-	>Csat	-	>Csat	-	>S	-	>S	-	
Silver	nc, nv	390		780		5,100		1,500		43,000		-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	*		*		*		180		370		730	
Styrene	nc, v	7,900	>Csat	16,000	>Csat	120,000	>Csat	51,000	>Csat	-	>Max	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	390		770		-	>Csat	1,600		3,200		6,700	
TCDD, 2,3,7,8- (Dioxin)	c, v	4.4E-06		0.000012		0.000015		0.00015		0.0042		0.017		0.046		-	>Csat	0.017		0.046		-	>Csat	3.3E-06		0.000016		0.000018		7.6E-08		3.7E-07		4.1E-07	
Tetrachloroethene (PCE)	c, v	1.1		3.0		5.1		40		1,100	>Csat	13		36		66		0.11		0.29		1.6		0.0054		0.019		0.037		0.093		0.34		0.64	
Toluene	nc, v	5,800	>Csat	12,000	>Csat	77,000	>Csat	24,000	>Csat	680,000	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	140		280		-	>Csat	2,300		4,600		9,200	
Toxaphene	c, nv	0.44		1.2		2.0		15		420		-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	4.0		14		29		0.052		0.18		0.37	
Trichloro-1,2,2-trifluoroethane, 1,1,2- (Freon 113)	nc, v	400,000	>Csat	800,000	>Csat	-	>Max	-	>Max	-	>Max	-	>Csat	-	>Csat	-		-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	59,000		120,000		-	
Trichloroethane, 1,1,1-	c, v	53,000	>Csat	110,000	>Csat	830,000	>Csat	430,000	>Csat	-	>Max	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	400		800		-	>Csat	9,100		18,000		38,000	
Trichloroethane, 1,1,2-	c*, v	3.2		6.3		25		53		1,500	>Csat	4.9		6.7		24		0.18		0.25		2.7		0.0046		0.016		0.025		0.23		0.83		1.3	
Trichloroethene	c*, v	6.4		17		46		120		3,400	>Csat	14		33		96		0.13		0.32		2.8		0.020		0.099		0.21		0.43		1.7		3.6	
Trichlorofluoromethane (Freon 11)	nc, v	7,600	>Csat	15,000	>Csat	120,000	>Csat	63,000	>Csat	-	>Max	-	>Csat	-	>Csat	-	>Csat	190		190		-	>Csat	72		140		300		1,300		2,600		5,400	
Trichlorophenol, 2,4,6-	c*, nv	44		120		200		240		6,600	>Csat	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	1.9		6.4		13		5.2		18		37	
Trimethylbenzene, 1,2,4-	nc, v	110		220		2,000	>Csat	2,000	>Csat	54,000	>Csat	230		230		1,000		82		82		1,000		16		33		68		15		29		61	
Trimethylbenzene, 1,3,5-	nc, v	780	>Csat	1,600	>Csat	10,000	>Csat	3,100	>Csat	86,000	>Csat	-		-		-		-		-		-		92		180		-	>Csat	360		730		1,500	
Vinyl chloride	c, v	0.34		0.76		3.9		30		830		5.3		6.5		89		0.043		0.053		2.2		0.00051		0.0012		0.010		0.025		0.059		0.52	
Xylenes	nc, v	1,400	>Csat	2,900	>Csat	25,000	>Csat	19,000	>Csat	540,000	>Csat	-	>Csat	-	>Csat	-	>Csat	100		100		-	>Csat	25		50		100		200		410		850	
Generic Gasoline	nc, v	1,200		2,500		20,000		9,700		>Max		5,900		5,900		69,000		94		94		>Max		31		31		130		110		110		450	
Generic Diesel/Heating Oil	nc, v	1,100		2,200		14,000		4,600		>Max		>Max		>Max		>Max		>Max		>Max		>Max		9,500		9,500		>Max		100		100		430	
Generic Mineral/Insulating Oil	nc, nv	2,800		5,700		36,000		11,000		>Max		>Max		>Max		>Max		>Max		>Max		>Max		>Max		>Max		>Max		300		300		1,300	

Contaminated Medium →		GROUNDWATER (µg/L (ppb))						GROUNDWATER (µg/L (ppb))						GROUNDWATER (µg/L (ppb))		Soil Gas (µg/m³)						AIR (µg/m³)					
Exposure Pathway →		Volatilization to Outdoor Air (RBC_{wo})						Vapor Intrusion into Buildings (RBC_{iw})						GW in Excavation (RBC_{swe})		Vapor Intrusion into Buildings (RBCsv)						INHALATION (RBC_{air})					
Receptor Scenario →		Residential		Urban Residential		Occupational		Residential		Urban Residential		Occupational		Construction & Excavation Worker		Residential		Urban Residential		Occupational		Residential		Urban Residential		Occupational	
Direct or Indirect Pathway (see notes)		IVW		IVW		IVW		IVW		IVW		IVW		DS		ICA		ICA		ICA		DCA		DCA		DCA	
Contaminant of Concern	Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note
Acenaphthene	nc, v	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	-	>Pv	-	>Pv	-	>Pv	-	>Pv	-	>Pv	-	>Pv
Acrylonitrile	c, v	1,800		4,900		9,000		560		1,500		8,500		240		7.2		20		180		0.036		0.098		0.18	
Aldrin	c, v	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	3.3		0.099		0.27		2.5		0.00050		0.0014		0.0025	
Anthracene	nc, v	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	-	>Pv	-	>Pv	-	>Pv	-	>Pv	-	>Pv	-	>Pv
Arsenic	c, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	5,800		-	NV	-	NV	-	NV	0.00057		0.0015		0.0029	
Barium	nc, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	2.5E+07		-	NV	-	NV	-	NV	0.52		0.52		2.2	
Benz[a]anthracene	c, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	9.1		-	NV	-	NV	-	NV	0.0087		0.018		0.11	
Benzene	c, v	2,800		7,600		14,000		190		510		2,800		1,700		62		170		1,600		0.31		0.85		1.6	
Benzidine	c, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	16		-	NV	-	NV	-	NV	0.000014		0.000029		0.00018	
Benzo[a]pyrene	c, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	0.53		-	NV	-	NV	-	NV	0.00087		0.0018		0.011	
Benzo[b]fluoranthene	c, v	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	1.7		3.6		-	>Pv	0.0087		0.018		0.11	
Benzo[k]fluoranthene	c, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	-	>S	-	NV	-	NV	-	NV	0.0087		0.018		-	>Pv
Beryllium	c *, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	250,000		-	NV	-	NV	-	NV	0.0001		0.0028		0.0051	
Bis(2-ethylhexyl)phthalate	c, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	-	>S	-	NV	-	NV	-	NV	1.0		-	>Pv	-	>Pv
Bromodichloromethane	c, v	1,800		5,000		9,300		370		1,000		5,600		450		13		36		330		0.066		0.18		0.33	
Bromoform	c, nv	210,000		570,000		1,100,000		73,000		200,000		1,100,000		14,000		440		1,200		11,000		2.2		6.0		11	
Bromomethane	nc, v	40,000		40,000		170,000		2,800		2,800		36,000		1,200		1,000		1,000		22,000		5.2		5.2		22	
Cadmium	c*, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	57,000		-	NV	-	NV	-	NV	0.0014		0.0037		0.0068	
Carbon tetrachloride	c, v	1,100		2,900		5,400		53		140		790		1,700		81		220		2,000		0.41		1.1		2.0	
Chlorobenzene	nc, v	-	>S	-	>S	-	>S	55,000		55,000		-	>S	10,000		10,000		10,000		220,000		52		52		220	
Chlorodibromomethane	c, v	5,100		14,000		26,000		1,500		4,200		23,000		600		18		49		450		0.090		0.25		0.45	
Chloroethane	c, v	-	>S	-	>S	-	>S	2,800,000		2,800,000		-	>S	2,400,000		2,100,000		2,100,000		4.4E+07		10,000		10,000		44,000	
Chloroform	c, v	1,100		3,000		5,500		80		220		1,200		720		21		58		530		0.11		0.29		0.53	
Chloromethane	c, v	500,000		500,000		2,100,000		26,000		26,000		320,000		22,000		19,000		19,000		390,000		94		94		390	
Chordane	c, v	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	51		4.9		13		-	>Pv	0.024		0.066		0.12	
Chromium (III)	nc, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	-	>S	-	NV	-	NV	-	NV	1.0E+15		1.0E+15		4.4E+15	
Chromium (VI)	c, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	8,700		-	NV	-	NV	-	NV	0.000011		0.000023		0.00015	
Chrysene	c, v	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	-	>Pv	-	>Pv	-	>Pv	0.087		0.18		1.1	
Copper	nc, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	5,000,000		-	NV	-	NV	-	NV	1.0E+15		1.0E+15		4.4E+15	
Cyanide (hydrogen cyanide) *	nc, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	75,000		-	NV	-	NV	-	NV	0.83		0.83		3.5	
DDD (4,4'-Dichlorodiphenyltrichloroethene)	c, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	40		-	NV	-	NV	-	NV	0.035		0.096		0.18	
DDE (4,4'-Dichlorodiphenyldichloroethene)	c, v	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	27		5.0		14		-	>Pv	0.025		0.068		0.13	
DDT (4,4'-Dichlorodiphenyldichloroethane)	c, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	15		-	NV	-	NV	-	NV	0.025		0.068		0.13	
Dibenz[a,h]anthracene	c, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	0.21		-	NV	-	NV	-	NV	-	>Pv	-	>Pv	-	>Pv
Dichlorobenzene, 1,2-	nc, v	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	37,000		42,000		42,000		880,000		210		210		880	
Dichlorobenzene, 1,4-	c, v	4,000		11,000		20,000		380		1,000		5,700		1,500		44		120		1,100		0.22		0.60		1.1	
Dichlorobenzidine, 3,3-	c, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	460		-	NV	-	NV	-	NV	0.0072		0.020		0.036	
Dichloroethane, 1,1-	c, v	15,000		40,000		73,000		1,100		2,900		16,000		10,000		300		830		7,700		1.5		4.1		7.7	
Dichloroethene, 1,1-	nc, v	550,000		550,000		-	>S	27,000		27,000		340,000		43,000		42,000		42,000		880,000		210		210		880	
Dichloroethene, cis-1,2-	nc, v	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	24,000		-	>Pv	-	>Pv	-	>Pv	-	>Pv	-	>Pv	-	>Pv
Dichloroethene, trans-1,2-	nc, v	430,000		430,000		1,800,000		28,000		28,000		350,000		14,000		13,000		13,000		260,000		63		63		260	
Dichloroethylether	c, v	4,000		11,000		25,000		1,600		4,400		25,000		51		1.5		4.0		37		0.0074		0.020		0.037	
Dichloromethane	c, v	66,000		180,000		330,000		6,500		18,000		99,000		32,000		1,000		2,800		26,000		5.2		14		26	
Dichlorophenoxyacetic acid, 2,4- (2,4-D)	nc, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	72,000		-	NV	-	NV	-	NV	-	>Pv	-	>Pv	-	>Pv
Dieldrin	c, v	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	2.3		0.11		0.29		2.7		0.00053		0.0014		0.0027	
Dinitrotoluene, 2,6-	nc, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	29,000		-	NV	-	NV	-	NV	-	>Pv	-	>Pv	-	>Pv
Di-n-propylnitrosamine	c, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	340		-	NV	-	NV	-	NV	0.0012		0.0033		0.0061	
Dioxane, 1,4-	c, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	200,000		-	NV	-	NV	-	NV	0.32		0.86		1.6	
Diphenylnitrosamine	c, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	-	>S	-	NV	-	NV	-	NV	0.94		2.6		4.7	
EDB (1,2-dibromoethane)	c, v	190		520		960		46		130		690		28		0.81		2.2		20		0.0041		0.011		0.020	
EDC (1,2-dichloroethane)	c, v	1,900		5,100		9,500		250		690		3,800		630		19		51		470		0.094		0.26		0.47	
Endosulfan, (alpha-beta)	nc, v	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	-	>Pv	-	>Pv	-	>Pv	-	>Pv	-	>Pv	-	>Pv
Endrin	nc, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	-	>S	-	NV	-	NV	-	NV	-	>Pv	-	>Pv	-	>Pv
Ethylbenzene	c, v	8,200		22,000		41,000		490		1,300		7,400		4,400		190		530		4,900		0.97		2.7		4.9	
Fluoranthene	nc, v	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	-	>Pv	-	>Pv	-	>Pv	-	>Pv	-	>Pv	-	>Pv
Fluorene	nc, v	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	-	>Pv	-	>Pv	-	>Pv	-	>Pv	-	>Pv	-	>Pv
Formaldehyde	c *, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	1.2E+07		-	NV	-	NV	-	NV	0.19		0.51		0.94	

Contaminated Medium →		GROUNDWATER (µg/L (ppb))						GROUNDWATER (µg/L (ppb))						GROUNDWATER (µg/L (ppb))		Soil Gas (µg/m³)						AIR (µg/m³)					
Exposure Pathway →		Volatilization to Outdoor Air (RBC_{wo})						Vapor Intrusion into Buildings (RBC_{wi})						GW in Excavation (RBC_{we})		Vapor Intrusion into Buildings (RBCsv)						INHALATION (RBC_{air})					
Receptor Scenario →		Residential		Urban Residential		Occupational		Residential		Urban Residential		Occupational		Construction & Excavation Worker		Residential		Urban Residential		Occupational		Residential		Urban Residential		Occupational	
Direct or Indirect Pathway (see notes)		IVW		IVW		IVW		IVW		IVW		IVW		DS		ICA		ICA		ICA		DCA		DCA		DCA	
Contaminant of Concern	Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note
Heptachlor	c, v	150		-	>S	-	>S	41		110		-	>S	9.3		0.37		1.0		9.4		0.0019		0.0051		0.0094	
Heptachlor Epoxide	c, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	3.2		-	NV	-	NV	-	NV	0.00094		0.0026		0.0047	
Hexachlorobenzene	c, v	160		450		830		20		55		310		8.1		1.1		2.9		27		0.0053		0.014		0.027	
Hexachlorocyclohexane, alpha- (alpha-HCH)	c, v	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	7.1		0.27		0.74		6.8		0.0014		0.0037		0.0068	
Hexachlorocyclohexane, gamma- (Lindane)	c, v	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	42		1.6		4.3		40		0.0078		0.021		0.040	
Hexachloroethane	c*, v	-	>S	-	>S	-	>S	16,000		45,000		-	>S	1,400		120		330		3,100		0.61		1.7		3.1	
Indeno(1,2,3-cd)pyrene	c, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	-	>S	-	NV	-	NV	-	NV	-	>Pv	-	>Pv	-	>Pv
Lead	NA, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	-	>S	-	NV	-	NV	-	NV	-	>Pv	-	>Pv	-	>Pv
Manganese	nc, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	3,000,000		-	NV	-	NV	-	NV	0.052		0.052		0.22	
MCPA ((4-chloro-2-methylphenoxy)acetic acid)	nc, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	6,600		-	NV	-	NV	-	NV	-	>Pv	-	>Pv	-	>Pv
Mercury	nc, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	-	>S	-	NV	-	NV	-	NV	0.031		0.031		0.13	
MTBE (methyl t-butyl ether)	c, v	230,000		610,000		1,100,000		39,000		110,000		590,000		62,000		1,900		5,100		47,000		9.4		26		47	
Naphthalene	c, v	3,100		8,400		16,000		670		1,800		10,000		500		14		39		360		0.072		0.20		0.36	
Nickel	c*, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	1.2E+07		-	NV	-	NV	-	NV	0.0094		0.026		0.047	
Pentachlorophenol	c, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	16		-	NV	-	NV	-	NV	0.48		1.3		2.4	
Polychlorinated biphenyls (PCBs)	c*, v	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	1.9		0.85		2.3		22		0.0033		0.009		0.017	
Propylbenzene, iso-	nc, v	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	83,000		83,000		1,800,000		420		420		1,800	
Pyrene	nc, v	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	-	>Pv	-	>Pv	-	>Pv	-	>Pv	-	>Pv	-	>Pv
Silver	nc, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	1,000,000		-	NV	-	NV	-	NV	1.0E+15		1.0E+15		4.4E+15	
Styrene	nc, v	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	160,000		210,000		210,000		4,400,000		1,000		1,000		4,400	
TCDD, 2,3,7,8- (Dioxin)	c, v	0.057		0.16		-	>S	0.023		0.063		-	>S	0.000016		0.000013		0.000035		0.00032		4.9E-08		1.3E-07		2.5E-07	
Tetrachloroethene (PCE)	c, v	1,800		5,000		9,200		95		260		1,400		240		82		220		2,100		0.41		1.1		2.1	
Toluene	nc, v	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	210,000		1,000,000		1,000,000		2.2E+07		5,200		5,200		22,000	
Toxaphene	c, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	71		-	NV	-	NV	-	NV	0.0076		0.021		0.038	
Trichloro-1,2,2-trifluoroethane, 1,1,2- (Freon 113)	nc, v	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	6,300,000		6,300,000		1.3E+08		31,000		31,000		130,000	
Trichloroethane, 1,1,1-	nc, v	-	>S	-	>S	-	>S	1,200,000		1,200,000		-	>S	1,100,000		1,000,000		1,000,000		2.2E+07		5,200		5,200		22,000	
Trichloroethane, 1,1,2-	c*, v	3,800		5,300		19,000		580		800		8,800		49		30		42		770		0.15		0.21		0.77	
Trichloroethene	c*, v	2,800		6,600		19,000		160		380		3,300		430		86		200		2,900		0.44		1.0		3.0	
Trichlorofluoromethane (Freon 11)	nc, v	590,000		590,000		-	>S	27,000		27,000		340,000		160,000		150,000		150,000		3,100,000		730		730		3,100	
Trichlorophenol, 2,4,6-	c*, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	1,600		-	NV	-	NV	-	NV	0.78		2.1		4.0	
Trimethylbenzene, 1,2,4-	nc, v	-	>S	-	>S	-	>S	5,000		5,000		-	>S	1,700		1,500		1,500		31,000		7.3		7.3		31	
Trimethylbenzene, 1,3,5-	nc, v	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	23,000		-	>Pv	-	>Pv	-	>Pv	-	>Pv	-	>Pv	-	>Pv
Vinyl chloride	c, v	400		500		6,800		18		22		910		1,200		33		41		2,800		0.17		0.20		2.8	
Xylenes	nc, v	-	>S	-	>S	-	>S	58,000		58,000		-	>S	23,000		21,000		21,000		440,000		100		100		440	
Generic Gasoline	nc, v	>S		>S		>S		22,000		22,000		>S		14,000		79,000		79,000		1,700,000		390		390		1,700	
Generic Diesel/Heating Oil	nc, v	>S		>S		>S		>S		>S		>S		>S		21,000		21,000		440,000		100		100		440	
Generic Mineral/Insulating Oil	nc, nv	>S		>S		>S		>S		>S		>S		>S		30,000		30,000		620,000		150		150		620	

NOTES:

Direct or Indirect Pathway Codes have the following meanings: DC means it is a direct contact pathway with a limiting value of Csat. IVS means it is an indirect pathway with a limiting value of Csat. DS means it is a direct contact pathway with a limiting value equal to the solubility, S. IVW means it is an indirect pathway with a limiting value equal to the solubility, S. DCA means it is a direct contact pathway with a limiting value equal to the vapor pressure, Pv.

The symbols in the **"Note"** columns are explained below. The references can be found in *Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites* (DEQ, 2003)

c	This chemical is a known or suspected carcinogen. The RBCs in this row were calculated using equations for carcinogens.
c*	The RBCs in this row were calculated using equations for both carcinogens and noncarcinogens (where lower). For some scenarios the RBCs based on non-carcinogenic effects are lower than RBCs based on cancer effects for these chemicals. You should use the lower of the calculated RBCs for each exposure scenario, as shown in this table.
>Csat	This soil RBC exceeds the limit of three-phase equilibrium partitioning. Refer to "ChemData" page for the corresponding value of Csat. Soil concentrations in excess of Csat indicate that free product might be present. See Section B.2.1.4 for additional information.
L	The values for lead reported in this table are not calculated. See Section B.3.4 for the source of the lead numbers and information on applying them.
>Max	The constituent RBC for this pathway is calculated as greater than 1,000,000 mg/kg or 1,000,000 mg/L. Therefore, this substance is deemed not to pose risks in this scenario.
NA	Not Available.
nc	This chemical is a noncarcinogen. The RBCs in this row were calculated using equations for noncarcinogens. When carcinogenic RBCs can be calculated and the noncancer RBC is lower, (nc) is shown in the notes.
nv	This chemical is considered "nonvolatile" for purposes of the exposure calculations.
>Pv	The air concentration reported for the RBC exceeds the vapor pressure of the pure chemical. It can be assumed that this constituent cannot create an unacceptable risk by this pathway. See Section B.2.1.4 for additional information.
>S	This groundwater RBC exceeds the solubility limit. Refer to Appendix D for the corresponding value of S. Groundwater concentrations in excess of S indicate that free product may be present. See Section B.2.1.4 for additional information.
v	This chemical is classified as "volatile" for purposes of the exposure calculations in this document.
*	Leaching-to-Groundwater RBCs are not provided for inorganic chemicals. If this pathway is of concern, then site-specific leaching tests must be performed.
-	When "Show All Values" is not selected on the Main Menu, all RBC values for indirect pathways that exceed a limit (Csat, S, or Pv) are removed from the table and replaced with "-".

ATTACHMENT

November 2011, EPA,
Regional Screening Level (RSL) Summary Table

Key: I = IRIS; P = PPRTV; A = ATSDR; C = Cal EPA; X = PPRTV Appendix; H = HEAST; J = New Jersey; O = EPA Office of Water; E = Environmental Criteria and Assessment Office; S = see user guide Section 5; L = see user guide on lead; M = mutagen; V = volatile; F = See FAQ; c = cancer; * = where: n SL < 100X c SL; ** = where n SL < 10X c SL; n = noncancer; m = Concentration may exceed ceiling limit (See User Guide); s = Concentration may exceed Csat (See User Guide); SSL values are based on DAF=1

Toxicity and Chemical-specific Information														Contaminant		Screening Levels										Protection of Ground	
SFO (mg/kg-day)$^{-1}$	key	IUR (ug/m^3)$^{-1}$	key	RfD_o (mg/kg-day)	key	RfC_i (mg/m^3)	key	volc	muta-gen	GIABS	ABS	C_{sat} (mg/kg)	Analyte	CAS No.	Resident Soil (mg/kg)	key	Industrial Soil (mg/kg)	key	Resident 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)
1.8E-02	C	5.1E-06	C	1.5E-01	I					1	0.1		ALAR	1596-84-5	2.7E+01	c	9.6E+01	c	4.8E-01	c	2.4E+00	c	3.7E+00	c		8.2E-04	
8.7E-03	I			4.0E-03	I					1	0.1		Acephate	30560-19-1	5.6E+01	c**	2.0E+02	c*					7.7E+00	c**		1.7E-03	
		2.2E-06	I			9.0E-03	I	V		1		1.1E+05	Acetaldehyde	75-07-0	1.0E+01	c**	5.2E+01	c**	1.1E+00	c**	5.6E+00	c**	2.2E+00	c**		4.5E-04	
				2.0E-02	I					1	0.1		Acetochlor	34256-82-1	1.2E+03	n	1.2E+04	n					2.7E+02	n		2.2E-01	
				9.0E-01	I	3.1E+01	A	V		1		1.1E+05	Acetone	67-64-1	6.1E+04	n	6.3E+05	nms	3.2E+04	n	1.4E+05	n	1.2E+04	n		2.4E+00	
				3.0E-03	P	6.0E-02	P	V		1		1.1E+05	Acetone Cyanohydrin	75-86-5	2.0E+02	n	2.1E+03	n	6.3E+01	n	2.6E+02	n	3.4E+01	n		6.9E-03	
						6.0E-02	I	V		1		1.3E+05	Acetonitrile	75-05-8	8.7E+02	n	3.7E+03	n	6.3E+01	n	2.6E+02	n	1.3E+02	n		2.6E-02	
				1.0E-01	I			V		1		2.5E+03	Acetophenone	98-86-2	7.8E+03	ns	1.0E+05	nms					1.5E+03	n		4.5E-01	
3.8E+00	C	1.3E-03	C							1	0.1		Acetylaminofluorene, 2-	53-96-3	1.3E-01	c	4.5E-01	c	1.9E-03	c	9.4E-03	c	1.4E-02	c		6.5E-05	
				5.0E-04	I	2.0E-05	I	V		1		2.3E+04	Acrolein	107-02-8	1.5E-01	n	6.5E-01	n	2.1E-02	n	8.8E-02	n	4.1E-02	n		8.4E-06	
5.0E-01	I	1.0E-04	I	2.0E-03	I	6.0E-03	I		M	1	0.1		Acrylamide	79-06-1	2.3E-01	c	3.4E+00	c	9.6E-03	c	1.2E-01	c	4.3E-02	c		9.1E-06	
				5.0E-01	I	1.0E-03	I			1	0.1		Acrylic Acid	79-10-7	3.0E+04	n	2.9E+05	nm	1.0E+00	n	4.4E+00	n	7.7E+03	n		1.6E+00	
5.4E-01	I	6.8E-05	I	4.0E-02	A	2.0E-03	I	V		1		1.1E+04	Acrylonitrile	107-13-1	2.4E-01	c*	1.2E+00	c*	3.6E-02	c*	1.8E-01	c*	4.5E-02	c*		9.8E-06	
						6.0E-03	P			1	0.1		Adiponitrile	111-69-3	8.5E+06	nm	3.6E+07	nm	6.3E+00	n	2.6E+01	n					
5.6E-02	C			1.0E-02	I					1	0.1		Alachlor	15972-60-8	8.7E+00	c*	3.1E+01	c					9.1E-01	c	2.0E+00	7.5E-04	1.6E-03
				1.0E-03	I					1	0.1		Aldicarb	116-06-3	6.1E+01	n	6.2E+02	n					1.5E+01	n		3.8E-03	
				1.0E-03	I					1	0.1		Aldicarb Sulfone	1646-88-4	6.1E+01	n	6.2E+02	n					1.6E+01	n		3.4E-03	
1.7E+01	I	4.9E-03	I	3.0E-05	I					1	0.1		Aldrin	309-00-2	2.9E-02	c*	1.0E-01	c	5.0E-04	c	2.5E-03	c	2.1E-04	c		3.4E-05	
				2.5E-01	I					1	0.1		Ally	74223-64-6	1.5E+04	n	1.5E+05	nm					3.8E+03	n		1.5E+00	
				5.0E-03	I	1.0E-04	X			1	0.1		Allyl Alcohol	107-18-6	3.0E+02	n	3.1E+03	n	1.0E-01	n	4.4E-01	n	7.8E+01	n		1.6E-02	
2.1E-02	C	6.0E-06	C			1.0E-03	I	V		1		1.4E+03	Allyl Chloride	107-05-1	6.8E-01	c**	3.4E+00	c**	4.1E-01	c**	2.0E+00	c**	6.3E-01	c**		2.0E-04	
				1.0E+00	P	5.0E-03	P			1			Aluminum	7429-90-5	7.7E+04	n	9.9E+05	nm	5.2E+00	n	2.2E+01	n	1.6E+04	n		2.3E+04	
				4.0E-04	I					1			Aluminum Phosphide	20859-73-8	3.1E+01	n	4.1E+02	n					6.2E+00	n			
				3.0E-04	I					1	0.1		Amdro	67485-29-4	1.8E+01	n	1.8E+02	n					4.7E+00	n		1.7E+03	
				9.0E-03	I					1	0.1		Ametryn	834-12-8	5.5E+02	n	5.5E+03	n					1.2E+02	n		1.2E-01	
2.1E+01	C	6.0E-03	C							1	0.1		Aminobiphenyl, 4-	92-67-1	2.3E-02	c	8.2E-02	c	4.1E-04	c	2.0E-03	c	2.6E-03	c		1.3E-05	
				8.0E-02	P					1	0.1		Aminophenol, m-	591-27-5	4.9E+03	n	4.9E+04	n					1.2E+03	n		4.7E-01	
				2.0E-02	P					1	0.1		Aminophenol, p-	123-30-8	1.2E+03	n	1.2E+04	n					3.1E+02	n		1.2E-01	
				2.5E-03	I					1	0.1		Amitraz	33089-61-1	1.5E+02	n	1.5E+03	n					5.9E+00	n		3.0E+00	
						1.0E-01	I			1			Ammonia	7664-41-7					1.0E+02	n	4.4E+02	n					
				2.0E-01	I					1			Ammonium Sulfamate	7773-06-0	1.6E+04	n	2.0E+05	nm					3.1E+03	n			
5.7E-03	I	1.6E-06	C	7.0E-03	P	1.0E-03	I			1	0.1		Aniline	62-53-3	8.5E+01	c**	3.0E+02	c*	1.0E+00	n	4.4E+00	n	1.2E+01	c**		3.9E-03	
4.0E-02	P			2.0E-03	X					1	0.1		Anthraquinone, 9,10-	84-65-1	1.2E+01	c*	4.3E+01	c*					1.2E+00	c*		1.2E-02	
				4.0E-04	I					0.15			Antimony (metallic)	7440-36-0	3.1E+01	n	4.1E+02	n					6.0E+00	n	6.0E+00	2.7E-01	2.7E-01
				5.0E-04	H					0.15			Antimony Pentoxide	1314-60-9	3.9E+01	n	5.1E+02	n					7.5E+00	n			
				9.0E-04	H					0.15			Antimony Potassium Tartrate	11071-15-1	7.0E+01	n	9.2E+02	n					1.3E+01	n			
				4.0E-04	H					0.15			Antimony Tetroxide	1332-81-6	3.1E+01	n	4.1E+02	n					6.0E+00	n			
						2.0E-04	I			0.15			Antimony Trioxide	1309-64-4	2.8E+05	nm	1.2E+06	nm	2.1E-01	n	8.8E-01	n					
				1.3E-02	I					1	0.1		Apollo	74115-24-5	7.9E+02	n	8.0E+03	n					1.8E+02	n		1.1E+01	
2.5E-02	I	7.1E-06	I	5.0E-02	H					1	0.1		Aramite	140-57-8	1.9E+01	c	6.9E+01	c	3.4E-01	c	1.7E+00	c	2.7E+00	c		3.0E-02	
1.5E+00	I	4.3E-03	I	3.0E-04	I	1.5E-05	C			1	0.03		Arsenic, Inorganic	7440-38-2	3.9E-01	c*	1.6E+00	c	5.7E-04	c*	2.9E-03	c*	4.5E-02	c	1.0E+01	1.3E-03	2.9E-01
				3.5E-06	C	5.0E-05	I			1			Arsine	7784-42-1	2.7E-01	n	3.6E+00	n	5.2E-02	n	2.2E-01	n	5.4E-02	n			
				9.0E-03	I					1	0.1		Assure	76578-14-8	5.5E+02	n	5.5E+03	n					9.3E+01	n		1.4E+00	
				5.0E-02	I					1	0.1		Asulam	3337-71-1	3.1E+03	n	3.1E+04	n					7.8E+02	n		2.0E-01	
2.3E-01	C			3.5E-02	I					1	0.1		Atrazine	1912-24-9	2.1E+00	c	7.5E+00	c					2.6E-01	c	3.0E+00	1.7E-04	1.9E-03
8.8E-01	C	2.5E-04	C							1	0.1		Auramine	492-80-8	5.5E-01	c	2.0E+00	c	9.7E-03	c	4.9E-02	c	6.7E-02	c		6.1E-04	
				4.0E-04	I					1	0.1		Avermectin B1	65195-55-3	2.4E+01	n	2.5E+02	n					6.3E+00	n		1.1E+01	
1.1E-01	I	3.1E-05	I					V		1			Azobenzene	103-33-3	5.1E+00	c	2.3E+01	c	7.8E-02	c	4.0E-01	c	1.0E-01	c		8.0E-04	
				2.0E-01	I	5.0E-04	H			0.07			Barium	7440-39-3	1.5E+04	n	1.9E+05	nm	5.2E-01	n	2.2E+00	n	2.9E+03	n	2.0E+03	1.2E+02	8.2E+01
				4.0E-03	I					1	0.1		Baygon	114-26-1	2.4E+02	n	2.5E+03	n					6.1E+01	n		2.0E-02	
				3.0E-02	I					1	0.1		Bayleton	43121-43-3	1.8E+03	n	1.8E+04	n					4.3E+02	n		3.4E-01	
				2.5E-02	I					1	0.1		Baythroid	68359-37-5	1.5E+03	n	1.5E+04	n					8.7E+01	n		2.3E+01	
				3.0E-01	I					1	0.1		Benefin	1861-40-1	1.8E+04	n	1.8E+05	nm					1.2E+03	n		4.1E+01	
				5.0E-02	I					1	0.1		Benomyl	17804-35-2	3.1E+03	n	3.1E+04	n					7.5E+02	n		6.6E-01	
				3.0E-02	I					1	0.1		Bentazon	25057-89-0	1.8E+03	n	1.8E+04	n					4.4E+02	n		9.6E-02	
				1.0E-01	I			V		1		1.2E+03	Benzaldehyde	100-52-7	7.8E+03	ns	1.0E+05	nms					1.5E+03	n		3.3E-01	
5.5E-02	I	7.8E-06	I	4.0E-03	I	3.0E-02	I	V		1		1.8E+03	Benzene	71-43-2	1.1E+00	c*	5.4E+00	c*	3.1E-01	c	1.6E+00	c*	3.9E-01	c*	5.0E+00	2.0E-04	2.6E-03
				2.0E-04	X					1	0.1		Benzenediamine-2-methyl sulfate, 1,4-	6369-59-1	1.2E+01	n	1.2E+02	n					3.1E+00	n			
				1.0E-03	P			V		1		1.3E+03	Benzenethiol	108-98-5	7.8E+01	n	1.0E+03	n					1.3E+01	n		8.6E-03	
2.3E+02	I	6.7E-02	I	3.0E-03	I				M	1	0.1		Benzidine	92-87-5	5.0E-04	c	7.5E-03	c	1.4E-05	c	1.8E-04	c	9.2E-05	c		2.4E-07	
				4.0E+00	I					1	0.1		Benzoic Acid	65-85-0	2.4E+05	nm	2.5E+06	nm					5.8E+04	n		1.4E+01	
1.3E+01	I							V		1		3.2E+02	Benzotrichloride	98-07-7	4.9E-02	c	2.2E-01	c					2.6E-03	c		5.6E-06	
				1.0E-01	P					1	0.1		Benzyl Alcohol	100-51-6	6.1E+03	n	6.2E+04	n					1.5E+03	n		3.7E-01	
1.7E-01	I	4.9E-05	C	2.0E-03	P	1.0E-03	P	V		1		1.5E+03	Benzyl Chloride	100-44-7	1.0E+00	c*	4.9E+00	c*	5.0E-02	c*	2.5E-01	c*	7.7E-02	c*		8.4E-05	
		2.4E-03	I	2.0E-03	I	2.0E-05	I			0.007			Beryllium and compounds	7440-41-7	1.6E+02	n	2.0E+03	n	1.0E-03	c*	5.1E-03	c*	1.6E+01	n	4.0E+00	1.3E+01	3.2E+00

Key: I = IRIS; P = PPRTV; A = ATSDR; C = Cal EPA; X = PPRTV Appendix; H = HEAST; J = New Jersey; O = EPA Office of Water; E = Environmental Criteria and Assessment Office; S = see user guide Section 5; L = see user guide on lead; M = mutagen; V = volatile; F = See FAQ; c = cancer; * = where: n SL < 100X c SL; ** = where n SL < 10X c SL; n = noncancer; m = Concentration may exceed ceiling limit (See User Guide); s = Concentration may exceed Csat (See User Guide); SSL values are based on DAF=1

Toxicity and Chemical-specific Information													Contaminant		Screening Levels											Protection of Ground	
SFO (mg/kg-day)$^{-1}$	key	IUR (ug/m^3)$^{-1}$	key	RfD_o (mg/kg-day)	key	RfC_i (mg/m^3)	key	volc	muta-gen	GIABS	ABS	C_{sat} (mg/kg)	Analyte	CAS No.	Resident Soil (mg/kg)	key	Industrial Soil (mg/kg)	key	Resident 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)
				1.0E-04	I					1	0.1		Bidrin	141-66-2	6.1E+00	n	6.2E+01	n					1.6E+00	n		3.6E-04	
				9.0E-03	P					1	0.1		Bifenox	42576-02-3	5.5E+02	n	5.5E+03	n					7.5E+01	n		5.7E-01	
				1.5E-02	I					1	0.1		Biphenthrin	82657-04-3	9.2E+02	n	9.2E+03	n					2.3E+02	n		1.1E+03	
8.0E-03	X			5.0E-02	I	4.0E-04	X	V		1		2.1E+02	Biphenyl, 1,1'-	92-52-4	5.1E+01	n	2.1E+02	n	4.2E-01	n	1.8E+00	n	8.3E-01	n		8.7E-03	
7.0E-02	H	1.0E-05	H	4.0E-02	I			V		1		1.0E+03	Bis(2-chloro-1-methylethyl) ether	108-60-1	4.6E+00	c	2.2E+01	c	2.4E-01	c	1.2E+00	c	3.1E-01	c		1.1E-04	
				3.0E-03	P					1	0.1		Bis(2-chloroethoxy)methane	111-91-1	1.8E+02	n	1.8E+03	n					4.7E+01	n		1.1E-02	
1.1E+00	I	3.3E-04	I					V		1		5.1E+03	Bis(2-chloroethyl)ether	111-44-4	2.1E-01	c	1.0E+00	c	7.4E-03	c	3.7E-02	c	1.2E-02	c		3.1E-06	
1.4E-02	I	2.4E-06	C	2.0E-02	I					1	0.1		Bis(2-ethylhexyl)phthalate	117-81-7	3.5E+01	c*	1.2E+02	c	1.0E+00	c	5.1E+00	c	7.1E-02	c*	6.0E+00	1.7E-02	1.4E+00
2.2E+02	I	6.2E-02	I					V		1		4.2E+03	Bis(chloromethyl)ether	542-88-1	7.7E-05	c	3.9E-04	c	3.9E-05	c	2.0E-04	c	6.2E-05	c		1.5E-08	
				5.0E-02	I					1	0.1		Bisphenol A	80-05-7	3.1E+03	n	3.1E+04	n					5.8E+02	n		4.4E+01	
				2.0E-01	I	2.0E-02	H			1			Boron And Borates Only	7440-42-8	1.6E+04	n	2.0E+05	nm	2.1E+01	n	8.8E+01	n	3.1E+03	n		9.9E+00	
				4.0E-02	C	1.3E-02	C			1			Boron Trifluoride	7637-07-2	3.1E+03	n	4.1E+04	n	1.4E+01	n	5.7E+01	n	6.2E+02	n			
7.0E-01	I			4.0E-03	I					1			Bromate	15541-45-4	9.1E-01	c	4.1E+00	c					9.6E-02	c	1.0E+01	7.4E-04	7.7E-02
2.0E+00	X	6.0E-04	X					V		1		2.4E+03	Bromo-2-chloroethane, 1-	107-04-0	2.4E-02	c	1.2E-01	c	4.1E-03	c	2.0E-02	c	6.5E-03	c		1.8E-06	
				8.0E-03	I	6.0E-02	I	V		1		6.8E+02	Bromobenzene	108-86-1	3.0E+02	n	1.8E+03	ns	6.3E+01	n	2.6E+02	n	5.4E+01	n		3.6E-02	
						4.0E-02	X	V		1		4.0E+03	Bromochloromethane	74-97-5	1.6E+02	n	6.8E+02	n	4.2E+01	n	1.8E+02	n	8.3E+01	n		2.1E-02	
6.2E-02	I	3.7E-05	C	2.0E-02	I			V		1		9.3E+02	Bromodichloromethane	75-27-4	2.7E-01	c	1.4E+00	c	6.6E-02	c	3.3E-01	c	1.2E-01	c	8.0E+01(F)	3.2E-05	2.2E-02
7.9E-03	I	1.1E-06	I	2.0E-02	I					1	0.1		Bromoform	75-25-2	6.2E+01	c*	2.2E+02	c*	2.2E+00	c	1.1E+01	c	7.9E+00	c*	8.0E+01(F)	2.1E-03	2.1E-02
				1.4E-03	I	5.0E-03	I	V		1		3.6E+03	Bromomethane	74-83-9	7.3E+00	n	3.2E+01	n	5.2E+00	n	2.2E+01	n	7.0E+00	n		1.8E-03	
				5.0E-03	H					1	0.1		Bromophos	2104-96-3	3.1E+02	n	3.1E+03	n					2.6E+01	n		1.1E-01	
				2.0E-02	I					1	0.1		Bromoxynil	1689-84-5	1.2E+03	n	1.2E+04	n					3.1E+02	n		2.7E-01	
				2.0E-02	I					1	0.1		Bromoxynil Octanoate	1689-99-2	1.2E+03	n	1.2E+04	n					1.0E+02	n		8.7E-01	
3.4E+00	C	3.0E-05	I			2.0E-03	I	V		1		6.7E+02	Butadiene, 1,3-	106-99-0	5.4E-02	c*	2.6E-01	c*	8.1E-02	c*	4.1E-01	c*	1.6E-02	c		8.6E-06	
				1.0E-01	I					1	0.1		Butanol, N-	71-36-3	6.1E+03	n	6.2E+04	n					1.5E+03	n		3.2E-01	
1.9E-03	P			2.0E-01	I					1	0.1		Butyl Benzyl Phthlate	85-68-7	2.6E+02	c*	9.1E+02	c					1.4E+01	c*		2.0E-01	
				2.0E+00	P	3.0E+01	P			1	0.1		Butyl alcohol, sec-	78-92-2	1.2E+05	nm	1.2E+06	nm	3.1E+04	n	1.3E+05	n	3.1E+04	n		6.3E+00	
				5.0E-02	I					1	0.1		Butylate	2008-41-5	3.1E+03	n	3.1E+04	n					3.4E+02	n		3.3E-01	
2.0E-04	C	5.7E-08	C							1	0.1		Butylated hydroxyanisole	25013-16-5	2.4E+03	c	8.6E+03	c	4.3E+01	c	2.2E+02	c	3.4E+02	c		6.3E-01	
				5.0E-02	P			V		1		1.1E+02	Butylbenzene, n-	104-51-8	3.9E+03	ns	5.1E+04	ns					7.8E+02	n		2.5E+00	
				1.0E+00	I					1	0.1		Butylphthalyl Butylglycolate	85-70-1	6.1E+04	n	6.2E+05	nm					1.6E+04	n		3.5E+02	
				2.0E-02	A					1	0.1		Cacodylic Acid	75-60-5	1.2E+03	n	1.2E+04	n					3.1E+02	n			
		1.8E-03	I	1.0E-03	I	2.0E-05	C			0.025	0.001		Cadmium (Diet)	7440-43-9	7.0E+01	n	8.0E+02	n									
		1.8E-03	I	5.0E-04	I	2.0E-05	C			0.05	0.001		Cadmium (Water)	7440-43-9					1.4E-03	c*	6.8E-03	c*	6.9E+00	n	5.0E+00	5.2E-01	3.8E-01
				5.0E-01	I					1	0.1		Caprolactam	105-60-2	3.1E+04	n	3.1E+05	nm					7.7E+03	n		1.9E+00	
1.5E-01	C	4.3E-05	C	2.0E-03	I					1	0.1		Captafol	2425-06-1	3.2E+00	c*	1.1E+01	c	5.7E-02	c	2.9E-01	c	3.5E-01	c*		6.1E-04	
2.3E-03	C	6.6E-07	C	1.3E-01	I					1	0.1		Captan	133-06-2	2.1E+02	c*	7.5E+02	c	3.7E+00	c	1.9E+01	c	2.7E+01	c*		1.9E-02	
				1.0E-01	I					1	0.1		Carbaryl	63-25-2	6.1E+03	n	6.2E+04	n					1.4E+03	n		1.3E+00	
				5.0E-03	I					1	0.1		Carbofuran	1563-66-2	3.1E+02	n	3.1E+03	n					7.3E+01	n	4.0E+01	2.8E-02	1.6E-02
				1.0E-01	I	7.0E-01	I	V		1		7.4E+02	Carbon Disulfide	75-15-0	8.2E+02	ns	3.7E+03	ns	7.3E+02	n	3.1E+03	n	7.2E+02	n		2.1E-01	
7.0E-02	I	6.0E-06	I	4.0E-03	I	1.0E-01	I	V		1		4.6E+02	Carbon Tetrachloride	56-23-5	6.1E-01	c	3.0E+00	c	4.1E-01	c	2.0E+00	c	3.9E-01	c	5.0E+00	1.5E-04	1.9E-03
				1.0E-02	I					1	0.1		Carbosulfan	55285-14-8	6.1E+02	n	6.2E+03	n					1.6E+02	n		3.8E+00	
				1.0E-01	I					1	0.1		Carboxin	5234-68-4	6.1E+03	n	6.2E+04	n					1.5E+03	n		8.0E-01	
						9.0E-04	I			1			Ceric oxide	1306-38-3	1.3E+06	nm	5.4E+06	nm	9.4E-01	n	3.9E+00	n					
				1.0E-01	I					1	0.1		Chloral Hydrate	302-17-0	6.1E+03	n	6.2E+04	n					1.5E+03	n		3.1E-01	
				1.5E-02	I					1	0.1		Chloramben	133-90-4	9.2E+02	n	9.2E+03	n					2.3E+02	n		5.7E-02	
4.0E-01	H									1	0.1		Chloranil	118-75-2	1.2E+00	c	4.3E+00	c					1.7E-01	c		1.4E-04	
3.5E-01	I	1.0E-04	I	5.0E-04	I	7.0E-04	I			1	0.04		Chlordane	12789-03-6	1.6E+00	c*	6.5E+00	c*	2.4E-02	c*	1.2E-01	c*	1.9E-01	c*	2.0E+00	1.3E-02	1.4E-01
1.0E+01	I	4.6E-03	C	3.0E-04	I					1	0.1		Chlordecone (Kepone)	143-50-0	4.9E-02	c	1.7E-01	c	5.3E-04	c	2.7E-03	c	3.0E-03	c		1.1E-04	
				7.0E-04	A					1	0.1		Chlorfenvinphos	470-90-6	4.3E+01	n	4.3E+02	n					8.6E+00	n		2.3E-02	
				2.0E-02	I					1	0.1		Chlorimuron, Ethyl-	90982-32-4	1.2E+03	n	1.2E+04	n					3.0E+02	n		1.0E-01	
				1.0E-01	I	1.5E-04	A			1			Chlorine	7782-50-5	7.5E+03	n	9.1E+04	n	1.5E-01	n	6.4E-01	n	1.6E+03	n		7.0E-01	
				3.0E-02	I	2.0E-04	I			1			Chlorine Dioxide	10049-04-4	2.3E+03	n	3.0E+04	n	2.1E-01	n	8.8E-01	n	4.7E+02	n			
				3.0E-02	I					1			Chlorite (Sodium Salt)	7758-19-2	2.3E+03	n	3.1E+04	n					4.7E+02	n	1.0E+03		
						5.0E+01	I	V		1		1.2E+03	Chloro-1,1-difluoroethane, 1-	75-68-3	5.8E+04	ns	2.4E+05	nms	5.2E+04	n	2.2E+05	n	1.0E+05	n		5.2E+01	
		3.0E-04	I	2.0E-02	H	2.0E-02	I	V		1		7.5E+02	Chloro-1,3-butadiene, 2-	126-99-8	9.4E-03	c	4.7E-02	c	8.1E-03	c	4.1E-02	c	1.6E-02	c		8.5E-06	
4.6E-01	H									1	0.1		Chloro-2-methylaniline HCl, 4-	3165-93-3	1.1E+00	c	3.7E+00	c					1.3E-01	c		7.4E-05	
1.0E-01	P	7.7E-05	C	3.0E-03	X					1	0.1		Chloro-2-methylaniline, 4-	95-69-2	4.9E+00	c*	1.7E+01	c	3.2E-02	c	1.6E-01	c	6.7E-01	c*		3.8E-04	
2.7E-01	X									1	0.1		Chloroacetaldehyde, 2-	107-20-0	1.8E+00	c	6.4E+00	c					2.5E-01	c		5.0E-05	
				2.0E-03	H					1	0.1		Chloroacetic Acid	79-11-8	1.2E+02	n	1.2E+03	n					3.1E+01	n	6.0E+01	6.3E-03	1.2E-02
						3.0E-05	I			1	0.1		Chloroacetophenone, 2-	532-27-4	4.3E+04	n	1.8E+05	nm	3.1E-02	n	1.3E-01	n					
2.0E-01	P			4.0E-03	I					1	0.1		Chloroaniline, p-	106-47-8	2.4E+00	c	8.6E+00	c					3.2E-01	c		1.3E-04	
				2.0E-02	I	5.0E-02	P	V		1		7.6E+02	Chlorobenzene	108-90-7	2.9E+02	n	1.4E+03	ns	5.2E+01	n	2.2E+02	n	7.2E+01	n	1.0E+02	4.9E-02	6.8E-02
1.1E-01	C	3.1E-05	C	2.0E-02	I					1	0.1		Chlorobenzilate	510-15-6	4.4E+00	c	1.6E+01	c	7.8E-02	c	4.0E-01	c	2.7E-01	c		8.8E-04	
				3.0E-02	X					1	0.1		Chlorobenzoic Acid, p-	74-11-3	1.8E+03	n	1.8E+04	n					3.9E+02	n		9.9E-02	
				3.0E-03	P	3.0E-01	P	V		1		1.2E+02	Chlorobenzotrifluoride, 4-	98-56-6	2.1E+02	ns	2.3E+03	ns	3.1E+02	n	1.3E+03	n	2.6E+01	n		9.3E-02	

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Toxicity and Chemical-specific Information													Contaminant		Screening Levels											Protection of Ground	
SFO (mg/kg-day)$^{-1}$	key	IUR (ug/m^3)$^{-1}$	key	RfD_o (mg/kg-day)	key	RfC_i (mg/m^3)	key	volc	muta-gen	GIABS	ABS	C_{sat} (mg/kg)	Analyte	CAS No.	Resident Soil (mg/kg)	key	Industrial Soil (mg/kg)	key	Resident 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)
				4.0E-02	P			V		1		7.3E+02	Chlorobutane, 1-	109-69-3	3.1E+03	ns	4.1E+04	ns					4.8E+02	n		2.0E-01	
						5.0E+01	I	V		1		1.7E+03	Chlorodifluoromethane	75-45-6	5.3E+04	ns	2.2E+05	nms	5.2E+04	n	2.2E+05	n	1.0E+05	n		4.3E+01	
3.1E-02	C	2.3E-05	I	1.0E-02	I	9.8E-02	A	V		1		2.5E+03	Chloroform	67-66-3	2.9E-01	c	1.5E+00	c	1.1E-01	c	5.3E-01	c	1.9E-01	c	8.0E+01(F)	5.3E-05	2.2E-02
						9.0E-02	I	V		1		1.3E+03	Chloromethane	74-87-3	1.2E+02	n	5.0E+02	n	9.4E+01	n	3.9E+02	n	1.9E+02	n		4.9E-02	
2.4E+00	C	6.9E-04	C					V		1		2.6E+04	Chloromethyl Methyl Ether	107-30-2	1.9E-02	c	9.4E-02	c	3.5E-03	c	1.8E-02	c	5.6E-03	c		1.2E-06	
				8.0E-02	I			V		1		1.8E+02	Chloronaphthalene, Beta-	91-58-7	6.3E+03	ns	8.2E+04	ns					5.5E+02	n		2.9E+00	
3.0E-01	P			3.0E-03	P	1.0E-05	X			1	0.1		Chloronitrobenzene, o-	88-73-3	1.6E+00	c	5.7E+00	c	1.0E-02	n	4.4E-02	n	2.0E-01	c		1.9E-04	
6.3E-03	P			1.0E-03	P	6.0E-04	P			1	0.1		Chloronitrobenzene, p-	100-00-5	6.1E+01	n	2.7E+02	c**	6.3E-01	n	2.6E+00	n	9.4E+00	c**		8.7E-03	
				5.0E-03	I			V		1		2.2E+04	Chlorophenol, 2-	95-57-8	3.9E+02	n	5.1E+03	n					7.1E+01	n		5.7E-02	
						4.0E-04	C	V		1		6.2E+02	Chloropicrin	76-06-2	2.1E+00	n	8.8E+00	n	4.2E-01	n	1.8E+00	n	8.3E-01	n		2.5E-04	
3.1E-03	C	8.9E-07	C	1.5E-02	I					1	0.1		Chlorothalonil	1897-45-6	1.6E+02	c**	5.6E+02	c*	2.7E+00	c	1.4E+01	c	1.9E+01	c*		4.3E-02	
				2.0E-02	I			V		1		9.1E+02	Chlorotoluene, o-	95-49-8	1.6E+03	ns	2.0E+04	ns					1.8E+02	n		1.7E-01	
				2.0E-02	X			V		1		2.5E+02	Chlorotoluene, p-	106-43-4	1.6E+03	ns	2.0E+04	ns					1.9E+02	n		1.8E-01	
2.4E+02	C	6.9E-02	C							1	0.1		Chlorozotocin	54749-90-5	2.0E-03	c	7.2E-03	c	3.5E-05	c	1.8E-04	c	2.8E-04	c		6.2E-08	
				2.0E-01	I					1	0.1		Chlorpropham	101-21-3	1.2E+04	n	1.2E+05	nm					2.2E+03	n		1.9E+00	
				1.0E-03	A					1	0.1		Chlorpyrifos	2921-88-2	6.1E+01	n	6.2E+02	n					6.2E+00	n		9.2E-02	
				1.0E-02	H					1	0.1		Chlorpyrifos Methyl	5598-13-0	6.1E+02	n	6.2E+03	n					8.9E+01	n		4.1E-01	
				5.0E-02	I					1	0.1		Chlorsulfuron	64902-72-3	3.1E+03	n	3.1E+04	n					7.7E+02	n		6.5E-01	
				8.0E-04	H					1	0.1		Chlorthiophos	60238-56-4	4.9E+01	n	4.9E+02	n					2.0E+00	n		5.2E-02	
				1.5E+00	I					0.013			Chromium(III), Insoluble Salts	16065-83-1	1.2E+05	nm	1.5E+06	nm					1.6E+04	n		2.8E+07	
5.0E-01	J	8.4E-02	S	3.0E-03	I	1.0E-04	I		M	0.025			Chromium(VI)	18540-29-9	2.9E-01	c	5.6E+00	c	1.1E-05	c	1.5E-04	c	3.1E-02	c		5.9E-04	
										0.013			Chromium, Total	7440-47-3											1.0E+02		1.8E+05
		9.0E-03	P	3.0E-04	P	6.0E-06	P			1			Cobalt	7440-48-4	2.3E+01	n	3.0E+02	n	2.7E-04	c*	1.4E-03	c*	4.7E+00	n		2.1E-01	
		6.2E-04	I						M	1	0.1		Coke Oven Emissions	8007-45-2					1.5E-03	c	2.0E-02	c					
				4.0E-02	H					1			Copper	7440-50-8	3.1E+03	n	4.1E+04	n					6.2E+02	n	1.3E+03	2.2E+01	4.6E+01
				5.0E-02	I	6.0E-01	C			1	0.1		Cresol, m-	108-39-4	3.1E+03	n	3.1E+04	n	6.3E+02	n	2.6E+03	n	7.2E+02	n		5.7E-01	
				5.0E-02	I	6.0E-01	C			1	0.1		Cresol, o-	95-48-7	3.1E+03	n	3.1E+04	n	6.3E+02	n	2.6E+03	n	7.2E+02	n		5.8E-01	
				5.0E-03	H	6.0E-01	C			1	0.1		Cresol, p-	106-44-5	3.1E+02	n	3.1E+03	n	6.3E+02	n	2.6E+03	n	7.2E+01	n		5.7E-02	
				1.0E-01	X					1	0.1		Cresol, p-chloro-m-	59-50-7	6.1E+03	n	6.2E+04	n					1.1E+03	n		1.3E+00	
				1.0E-01	A	6.0E-01	C	V		1		5.0E+04	Cresols	1319-77-3	7.5E+03	n	9.1E+04	ns	6.3E+02	n	2.6E+03	n	6.7E+02	n		5.4E-01	
1.9E+00	H			1.0E-03	P			V		1		1.7E+04	Crotonaldehyde, trans-	123-73-9	3.4E-01	c	1.5E+00	c					3.5E-02	c		7.1E-06	
				1.0E-01	I	4.0E-01	I	V		1		2.7E+02	Cumene	98-82-8	2.1E+03	ns	1.1E+04	ns	4.2E+02	n	1.8E+03	n	3.9E+02	n		6.4E-01	
2.2E-01	C	6.3E-05	C							1	0.1		Cupferron	135-20-6	2.2E+00	c	7.8E+00	c	3.9E-02	c	1.9E-01	c	3.1E-01	c		5.3E-04	
8.4E-01	H			2.0E-03	H					1	0.1		Cyanazine	21725-46-2	5.8E-01	c	2.1E+00	c					7.6E-02	c		3.5E-05	
													Cyanides														
				4.0E-02	I					1			~Calcium Cyanide	592-01-8	3.1E+03	n	4.1E+04	n					6.2E+02	n			
				5.0E-03	I					1			~Copper Cyanide	544-92-3	3.9E+02	n	5.1E+03	n					7.8E+01	n			
				2.0E-02	I			V		1		1.0E+07	~Cyanide (CN-)	57-12-5	1.6E+03	n	2.0E+04	n					3.1E+02	n	2.0E+02	3.1E+00	2.0E+00
				4.0E-02	I			V		1			~Cyanogen	460-19-5	3.1E+03	n	4.1E+04	n					6.2E+02	n			
				9.0E-02	I			V		1			~Cyanogen Bromide	506-68-3	7.0E+03	n	9.2E+04	n					1.4E+03	n			
				5.0E-02	I			V		1			~Cyanogen Chloride	506-77-4	3.9E+03	n	5.1E+04	n					7.8E+02	n			
				6.0E-04	I	8.0E-04	I	V		1			~Hydrogen Cyanide	74-90-8	4.7E+01	n	6.1E+02	n	8.3E-01	n	3.5E+00	n	1.4E+00	n			
				5.0E-02	I					1			~Potassium Cyanide	151-50-8	3.9E+03	n	5.1E+04	n					7.7E+02	n			
				2.0E-01	I					0.04			~Potassium Silver Cyanide	506-61-6	1.6E+04	n	2.0E+05	nm					2.4E+03	n			
				1.0E-01	I					0.04			~Silver Cyanide	506-64-9	7.8E+03	n	1.0E+05	nm					1.3E+03	n			
				4.0E-02	I					1			~Sodium Cyanide	143-33-9	3.1E+03	n	4.1E+04	n					6.2E+02	n	2.0E+02		
				2.0E-04	P			V		1		4.6E+03	~Thiocyanate	463-56-9	1.6E+01	n	2.0E+02	n					3.1E+00	n		6.6E-04	
				5.0E-02	I					1			~Zinc Cyanide	557-21-1	3.9E+03	n	5.1E+04	n					7.8E+02	n			
						6.0E+00	I	V		1		1.2E+02	Cyclohexane	110-82-7	7.0E+03	ns	2.9E+04	ns	6.3E+03	n	2.6E+04	n	1.3E+04	n		1.3E+01	
2.3E-02	H									1	0.1		Cyclohexane, 1,2,3,4,5-pentabromo-6-chloro-	87-84-3	2.1E+01	c	7.5E+01	c					2.1E+00	c		1.2E-02	
				5.0E+00	I	7.0E-01	P			1	0.1		Cyclohexanone	108-94-1	3.1E+05	nm	3.1E+06	nm	7.3E+02	n	3.1E+03	n	7.7E+04	n		1.8E+01	
				2.0E-01	I					1	0.1		Cyclohexylamine	108-91-8	1.2E+04	n	1.2E+05	nm					3.0E+03	n		7.9E-01	
				5.0E-03	I					1	0.1		Cyhalothrin/karate	68085-85-8	3.1E+02	n	3.1E+03	n					7.8E+01	n		5.3E+01	
				1.0E-02	I					1	0.1		Cypermethrin	52315-07-8	6.1E+02	n	6.2E+03	n					1.6E+02	n		2.5E+01	
				7.5E-03	I					1	0.1		Cyromazine	66215-27-8	4.6E+02	n	4.6E+03	n					1.2E+02	n		3.0E-02	
2.4E-01	I	6.9E-05	C							1	0.1		DDD	72-54-8	2.0E+00	c	7.2E+00	c	3.5E-02	c	1.8E-01	c	2.8E-01	c		6.6E-02	
3.4E-01	I	9.7E-05	C							1	0.1		DDE, p,p'-	72-55-9	1.4E+00	c	5.1E+00	c	2.5E-02	c	1.3E-01	c	2.0E-01	c		4.6E-02	
3.4E-01	I	9.7E-05	I	5.0E-04	I					1	0.03		DDT	50-29-3	1.7E+00	c*	7.0E+00	c*	2.5E-02	c	1.3E-01	c	2.0E-01	c*		6.7E-02	
				1.0E-02	I					1	0.1		Dacthal	1861-32-1	6.1E+02	n	6.2E+03	n					9.3E+01	n		1.1E-01	
				3.0E-02	I					1	0.1		Dalapon	75-99-0	1.8E+03	n	1.8E+04	n					4.7E+02	n	2.0E+02	9.7E-02	4.1E-02
7.0E-04	I			7.0E-03	I					1	0.1		Decabromodiphenyl ether, 2,2',3,3',4,4',5,5',6,6'- (BDE-209)	1163-19-5	4.3E+02	n	2.5E+03	c**					9.6E+01	c**		5.3E+01	
				4.0E-05	I					1	0.1		Demeton	8065-48-3	2.4E+00	n	2.5E+01	n					5.2E-01	n			
1.2E-03	I			6.0E-01	I					1	0.1		Di(2-ethylhexyl)adipate	103-23-1	4.1E+02	c*	1.4E+03	c					5.6E+01	c	4.0E+02	4.0E+00	2.9E+01
6.1E-02	H									1	0.1		Diallate	2303-16-4	8.0E+00	c	2.8E+01	c					4.6E-01	c		6.8E-04	
				7.0E-04	A					1	0.1		Diazinon	333-41-5	4.3E+01	n	4.3E+02	n					7.9E+00	n		4.9E-02	

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Toxicity and Chemical-specific Information														Contaminant		Screening Levels												Protection of Ground	
SFO (mg/kg-day)$^{-1}$	key	IUR (ug/m^3)$^{-1}$	key	RfD_o (mg/kg-day)	key	RfC_i (mg/m^3)	key	voc	muta-gen	GIABS	ABS	C_{sat} (mg/kg)	Analyte	CAS No.	Resident Soil (mg/kg)	key	Industrial Soil (mg/kg)	key	Resident 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)
8.0E-01	P	6.0E-03	P	2.0E-04	P	2.0E-04	I	V	M	1		9.8E+02	Dibromo-3-chloropropane, 1,2-	96-12-8	5.4E-03	c	6.9E-02	c	1.6E-04	c	2.0E-03	c	3.2E-04	c	2.0E-01	1.4E-07	8.6E-05
				1.0E-02	I					1	0.1		Dibromobenzene, 1,4-	106-37-6	6.1E+02	n	6.2E+03	n					9.8E+01	n		9.3E-02	
8.4E-02	I	2.7E-05	C	2.0E-02	I			V		1	0.1	8.0E+02	Dibromochloromethane	124-48-1	6.8E-01	c	3.3E+00	c	9.0E-02	c	4.5E-01	c	1.5E-01	c	8.0E+01(F)	3.9E-05	2.1E-02
2.0E+00	I	6.0E-04	I	9.0E-03	I	9.0E-03	I	V		1		1.3E+03	Dibromoethane, 1,2-	106-93-4	3.4E-02	c	1.7E-01	c	4.1E-03	c	2.0E-02	c	6.5E-03	c	5.0E-02	1.8E-06	1.4E-05
				1.0E-02	H	4.0E-03	X	V		1		2.8E+03	Dibromomethane (Methylene Bromide)	74-95-3	2.5E+01	n	1.1E+02	n	4.2E+00	n	1.8E+01	n	7.9E+00	n		1.9E-03	
				1.0E-01	I					1	0.1		Dibutyl Phthalate	84-74-2	6.1E+03	n	6.2E+04	n					6.7E+02	n		1.7E+00	
				3.0E-04	P					1	0.1		Dibutyltin Compounds	NA	1.8E+01	n	1.8E+02	n					4.7E+00	n			
				3.0E-02	I					1	0.1		Dicamba	1918-00-9	1.8E+03	n	1.8E+04	n					4.4E+02	n		1.1E-01	
		4.2E-03	P					V		1		5.2E+02	Dichloro-2-butene, 1,4-	764-41-0	6.9E-03	c	3.5E-02	c	5.8E-04	c	2.9E-03	c	1.2E-03	c		5.4E-07	
		4.2E-03	P					V		1	0.1	5.2E+02	Dichloro-2-butene, cis-1,4-	1476-11-5	6.9E-03	c	3.5E-02	c	5.8E-04	c	2.9E-03	c	1.2E-03	c		5.4E-07	
		4.2E-03	P					V		1	0.1	7.6E+02	Dichloro-2-butene, trans-1,4-	110-57-6	6.9E-03	c	3.5E-02	c	5.8E-04	c	2.9E-03	c	1.2E-03	c		5.4E-07	
5.0E-02	I			4.0E-03	I					1	0.1		Dichloroacetic Acid	79-43-6	9.7E+00	c*	3.4E+01	c*					1.3E+00	c*	6.0E+01	2.7E-04	1.2E-02
				9.0E-02	I	2.0E-01	H	V		1		3.8E+02	Dichlorobenzene, 1,2-	95-50-1	1.9E+03	ns	9.8E+03	ns	2.1E+02	n	8.8E+02	n	2.8E+02	n	6.0E+02	2.7E-01	5.8E-01
5.4E-03	C	1.1E-05	C	7.0E-02	A	8.0E-01	I	V		1			Dichlorobenzene, 1,4-	106-46-7	2.4E+00	c	1.2E+01	c	2.2E-01	c	1.1E+00	c	4.2E-01	c	7.5E+01	4.0E-04	7.2E-02
4.5E-01	I	3.4E-04	C							1	0.1		Dichlorobenzidine, 3,3'-	91-94-1	1.1E+00	c	3.8E+00	c	7.2E-03	c	3.6E-02	c	1.1E-01	c		7.1E-04	
				9.0E-03	X					1	0.1		Dichlorobenzophenone, 4,4'-	90-98-2	5.5E+02	n	5.5E+03	n					1.4E+02	n		8.5E-01	
				2.0E-01	I	1.0E-01	X	V		1		8.5E+02	Dichlorodifluoromethane	75-71-8	9.4E+01	n	4.0E+02	n	1.0E+02	n	4.4E+02	n	1.9E+02	n		3.0E-01	
5.7E-03	C	1.6E-06	C	2.0E-01	P			V		1		1.7E+03	Dichloroethane, 1,1-	75-34-3	3.3E+00	c	1.7E+01	c	1.5E+00	c	7.7E+00	c	2.4E+00	c		6.8E-04	
9.1E-02	I	2.6E-05	I	6.0E-03	X	7.0E-03	P	V		1		3.0E+03	Dichloroethane, 1,2-	107-06-2	4.3E-01	c*	2.2E+00	c*	9.4E-02	c*	4.7E-01	c*	1.5E-01	c*	5.0E+00	4.2E-05	1.4E-03
				5.0E-02	I	2.0E-01	I	V		1		1.2E+03	Dichloroethylene, 1,1-	75-35-4	2.4E+02	n	1.1E+03	n	2.1E+02	n	8.8E+02	n	2.6E+02	n	7.0E+00	9.3E-02	2.5E-03
				9.0E-03	H			V		1		1.3E+03	Dichloroethylene, 1,2- (Mixed Isomers)	540-59-0	7.0E+02	n	9.2E+03	ns					1.3E+02	n		3.7E-02	
				2.0E-03	I			V		1		2.4E+03	Dichloroethylene, 1,2-cis-	156-59-2	1.6E+02	n	2.0E+03	n					2.8E+01	n	7.0E+01	8.2E-03	2.1E-02
				2.0E-02	I	6.0E-02	P	V		1		1.7E+03	Dichloroethylene, 1,2-trans-	156-60-5	1.5E+02	n	6.9E+02	n	6.3E+01	n	2.6E+02	n	8.6E+01	n	1.0E+02	2.5E-02	2.9E-02
				3.0E-03	I					1	0.1		Dichlorophenol, 2,4-	120-83-2	1.8E+02	n	1.8E+03	n					3.5E+01	n		4.1E-02	
				1.0E-02	I					1	0.05		Dichlorophenoxy Acetic Acid, 2,4-	94-75-7	6.9E+02	n	7.7E+03	n					1.3E+02	n	7.0E+01	3.5E-02	1.8E-02
				8.0E-03	I					1	0.1		Dichlorophenoxy)butyric Acid, 4-(2,4-	94-82-6	4.9E+02	n	4.9E+03	n					9.1E+01	n		3.6E-02	
3.6E-02	C	1.0E-05	C	9.0E-02	A	4.0E-03	I	V		1		1.4E+03	Dichloropropane, 1,2-	78-87-5	9.4E-01	c*	4.7E+00	c*	2.4E-01	c*	1.2E+00	c*	3.8E-01	c*	5.0E+00	1.3E-04	1.7E-03
				2.0E-02	P			V		1		1.5E+03	Dichloropropane, 1,3-	142-28-9	1.6E+03	ns	2.0E+04	ns					2.9E+02	n		9.9E-02	
				3.0E-03	I					1	0.1		Dichloropropanol, 2,3-	616-23-9	1.8E+02	n	1.8E+03	n					4.7E+01	n		9.9E-03	
1.0E-01	I	4.0E-06	I	3.0E-02	I	2.0E-02	I	V		1		1.6E+03	Dichloropropene, 1,3-	542-75-6	1.7E+00	c*	8.3E+00	c*	6.1E-01	c*	3.1E+00	c*	4.1E-01	c*		1.5E-04	
2.9E-01	I	8.3E-05	C	5.0E-04	I	5.0E-04	I			1	0.1		Dichlorvos	62-73-7	1.7E+00	c*	5.9E+00	c*	2.9E-02	c*	1.5E-01	c*	2.3E-01	c*		7.0E-05	
				8.0E-03	P	7.0E-03	P	V		1		1.3E+02	Dicyclopentadiene	77-73-6	3.1E+01	n	1.3E+02	ns	7.3E+00	n	3.1E+01	n	1.2E+01	n		4.3E-02	
1.6E+01	I	4.6E-03	I	5.0E-05	I					1	0.1		Dieldrin	60-57-1	3.0E-02	c	1.1E-01	c	5.3E-04	c	2.7E-03	c	1.5E-03	c		6.1E-05	
		3.0E-04	C			5.0E-03	I			1	0.1		Diesel Engine Exhaust	NA					8.1E-03	c	4.1E-02	c					
						3.0E-03	C			1	0.1		Diethanolamine	111-42-2	4.3E+06	nm	1.8E+07	nm	3.1E+00	n	1.3E+01	n					
				8.0E-01	I					1	0.1		Diethyl Phthalate	84-66-2	4.9E+04	n	4.9E+05	nm					1.1E+04	n		4.7E+00	
				3.0E-02	P	1.0E-04	P			1	0.1		Diethylene Glycol Monobutyl Ether	112-34-5	1.8E+03	n	1.8E+04	n	1.0E-01	n	4.4E-01	n	4.7E+02	n		1.0E-01	
				6.0E-02	P	3.0E-04	P			1	0.1		Diethylene Glycol Monoethyl Ether	111-90-0	3.6E+03	n	3.6E+04	n	3.1E-01	n	1.3E+00	n	9.4E+02	n		1.9E-01	
				1.0E-03	P					1	0.1		Diethylformamide	617-84-5	6.1E+01	n	6.2E+02	n					1.6E+01	n		3.2E-03	
3.5E+02	C	1.0E-01	C							1	0.1		Diethylstilbestrol	56-53-1	1.4E-03	c	4.9E-03	c	2.4E-05	c	1.2E-04	c	4.3E-05	c		2.4E-05	
				8.0E-02	I					1	0.1		Difenzoquat	43222-48-6	4.9E+03	n	4.9E+04	n					1.2E+03	n			
				2.0E-02	I					1	0.1		Diflubenzuron	35367-38-5	1.2E+03	n	1.2E+04	n					2.2E+02	n		2.5E-01	
						4.0E+01	I	V		1		1.4E+03	Difluoroethane, 1,1-	75-37-6	5.2E+04	ns	2.2E+05	nms	4.2E+04	n	1.8E+05	n	8.3E+04	n		2.8E+01	
4.4E-02	C	1.3E-05	C							1	0.1		Dihydrosafrole	94-58-6	1.1E+01	c	3.9E+01	c	1.9E-01	c	9.4E-01	c	1.5E+00	c		1.9E-03	
						7.0E-01	P	V		1		2.3E+03	Diisopropyl Ether	108-20-3	2.4E+03	ns	1.0E+04	ns	7.3E+02	n	3.1E+03	n	1.5E+03	n		3.7E-01	
				8.0E-02	I			V		1		5.3E+02	Diisopropyl Methylphosphonate	1445-75-6	6.3E+03	ns	8.2E+04	ns					1.2E+03	n		3.5E-01	
				2.0E-02	I					1	0.1		Dimethipin	55290-64-7	1.2E+03	n	1.2E+04	n					3.1E+02	n		6.9E-02	
				2.0E-04	I					1	0.1		Dimethoate	60-51-5	1.2E+01	n	1.2E+02	n					3.1E+00	n		7.0E-04	
1.4E-02	H									1	0.1		Dimethoxybenzidine, 3,3'-	119-90-4	3.5E+01	c	1.2E+02	c					4.7E+00	c		5.7E-03	
1.7E-03	P			6.0E-02	P					1	0.1		Dimethyl methylphosphonate	756-79-6	2.9E+02	c*	1.0E+03	c*					3.9E+01	c*		8.3E-03	
4.6E+00	C	1.3E-03	C							1	0.1		Dimethylamino azobenzene [p-]	60-11-7	1.1E-01	c	3.7E-01	c	1.9E-03	c	9.4E-03	c	4.3E-03	c		1.8E-05	
5.8E-01	H									1	0.1		Dimethylaniline HCl, 2,4-	21436-96-4	8.4E-01	c	3.0E+00	c					1.1E-01	c		6.2E-05	
2.0E-01	P			2.0E-03	X					1	0.1		Dimethylaniline, 2,4-	95-68-1	2.4E+00	c*	8.6E+00	c					3.2E-01	c*		1.8E-04	
				2.0E-03	I			V		1		8.3E+02	Dimethylaniline, N,N-	121-69-7	1.6E+02	n	2.0E+03	ns					2.7E+01	n		9.8E-03	
1.1E+01	P									1	0.1		Dimethylbenzidine, 3,3'-	119-93-7	4.4E-02	c	1.6E-01	c					5.6E-03	c		3.7E-05	
				1.0E-01	P	3.0E-02	I			1	0.1		Dimethylformamide	68-12-2	6.1E+03	n	6.2E+04	n	3.1E+01	n	1.3E+02	n	1.6E+03	n		3.2E-01	
				1.0E-04	X	2.0E-06	X			1	0.1		Dimethylhydrazine, 1,1-	57-14-7	6.1E+00	n	6.1E+01	n	2.1E-03	n	8.8E-03	n	1.6E+00	n		3.5E-04	
5.5E+02	C	1.6E-01	C							1	0.1		Dimethylhydrazine, 1,2-	540-73-8	8.8E-04	c	3.1E-03	c	1.5E-05	c	7.7E-05	c	1.2E-04	c		2.8E-08	
				2.0E-02	I					1	0.1		Dimethylphenol, 2,4-	105-67-9	1.2E+03	n	1.2E+04	n					2.7E+02	n		3.2E-01	
				6.0E-04	I					1	0.1		Dimethylphenol, 2,6-	576-26-1	3.7E+01	n	3.7E+02	n					8.1E+00	n		9.8E-03	
				1.0E-03	I					1	0.1		Dimethylphenol, 3,4-	95-65-8	6.1E+01	n	6.2E+02	n					1.4E+01	n		1.6E-02	
				1.0E-01	I			V		1		5.5E+00	Dimethylterephthalate	120-61-6	7.8E+03	ns	1.0E+05	nms					1.4E+03	n		3.8E-01	
4.5E-02	C	1.3E-05	C							1	0.1		Dimethylvinylchloride	513-37-1	1.1E+01	c	3.8E+01	c	1.9E-01	c	9.4E-01	c	1.5E+00	c		9.2E-04	
				8.0E-05	X					1	0.1		Dinitro-o-cresol, 4,6-	534-52-1	4.9E+00	n	4.9E+01	n					1.2E+00	n		2.0E-03	
				2.0E-03	I					1	0.1		Dinitro-o-cyclohexyl Phenol, 4,6-	131-89-5	1.2E+02	n	1.2E+03	n					1.7E+01	n		5.7E-01	

Key: I = IRIS; P = PPRTV; A = ATSDR; C = Cal EPA; X = PPRTV Appendix; H = HEAST; J = New Jersey; O = EPA Office of Water; E = Environmental Criteria and Assessment Office; S = see user guide Section 5; L = see user guide on lead; M = mutagen; V = volatile; F = See FAQ; c = cancer; * = where: n SL < 100X c SL; ** = where n SL < 10X c SL; n = noncancer; m = Concentration may exceed ceiling limit (See User Guide); s = Concentration may exceed Csat (See User Guide); SSL values are based on DAF=1

Toxicity and Chemical-specific Information														Contaminant		Screening Levels												Protection of Ground	
SFO (mg/kg-day)$^{-1}$	key	IUR (ug/m^3)$^{-1}$	key	RfD_o (mg/kg-day)	key	RfC_i (mg/m^3)	key	volatile	muta-gen	GIABS	ABS	C_{sat} (mg/kg)	Analyte	CAS No.	Resident Soil (mg/kg)	key	Industrial Soil (mg/kg)	key	Resident 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)
				1.0E-04	P					1	0.1		Dinitrobenzene, 1,2-	528-29-0	6.1E+00	n	6.2E+01	n					1.5E+00	n		1.4E-03	
				1.0E-04	I					1	0.1		Dinitrobenzene, 1,3-	99-65-0	6.1E+00	n	6.2E+01	n					1.5E+00	n		1.4E-03	
				1.0E-04	P					1	0.1		Dinitrobenzene, 1,4-	100-25-4	6.1E+00	n	6.2E+01	n					1.5E+00	n		1.4E-03	
				2.0E-03	I					1	0.1		Dinitrophenol, 2,4-	51-28-5	1.2E+02	n	1.2E+03	n					3.0E+01	n		3.4E-02	
6.8E-01	I									1	0.1		Dinitrotoluene Mixture, 2,4/2,6-	25321-14-6	7.2E-01	c	2.5E+00	c					9.2E-02	c		1.3E-04	
3.1E-01	C	8.9E-05	C	2.0E-03	I					1	0.102		Dinitrotoluene, 2,4-	121-14-2	1.6E+00	c*	5.5E+00	c	2.7E-02	c	1.4E-01	c	2.0E-01	c		2.8E-04	
				1.0E-03	P					1	0.099		Dinitrotoluene, 2,6-	606-20-2	6.1E+01	n	6.2E+02	n					1.5E+01	n		2.0E-02	
				2.0E-03	S					1	0.006		Dinitrotoluene, 2-Amino-4,6-	35572-78-2	1.5E+02	n	2.0E+03	n					3.0E+01	n		2.3E-02	
				2.0E-03	S					1	0.009		Dinitrotoluene, 4-Amino-2,6-	19406-51-0	1.5E+02	n	1.9E+03	n					3.0E+01	n		2.3E-02	
				1.0E-03	I					1	0.1		Dinoseb	88-85-7	6.1E+01	n	6.2E+02	n					1.1E+01	n	7.0E+00	9.8E-02	6.2E-02
1.0E-01	I	7.7E-06	C	3.0E-02	I	3.0E+00	C			1	0.1		Dioxane, 1,4-	123-91-1	4.9E+00	c	1.7E+01	c	3.2E-01	c	1.6E+00	c	6.7E-01	c		1.4E-04	
													Dioxins														
6.2E+03	I	1.3E+00	I							1	0.03		~Hexachlorodibenzo-p-dioxin, Mixture	NA	9.4E-05	c	3.9E-04	c	1.9E-06	c	9.4E-06	c	1.1E-05	c		1.5E-05	
1.3E+05	C	3.8E+01	C	1.0E-09	A	4.0E-08	C			1	0.03		~TCDD, 2,3,7,8-	1746-01-6	4.5E-06	c*	1.8E-05	c*	6.4E-08	c	3.2E-07	c	5.2E-07	c*	3.0E-05	2.6E-07	1.5E-05
				3.0E-02	I					1	0.1		Diphenamid	957-51-7	1.8E+03	n	1.8E+04	n					4.7E+02	n		4.6E+00	
				8.0E-04	X					1	0.1		Diphenyl Sulfone	127-63-9	4.9E+01	n	4.9E+02	n					1.1E+01	n		2.8E-02	
				2.5E-02	I					1	0.1		Diphenylamine	122-39-4	1.5E+03	n	1.5E+04	n					2.4E+02	n		4.4E-01	
8.0E-01	I	2.2E-04	I							1	0.1		Diphenylhydrazine, 1,2-	122-66-7	6.1E-01	c	2.2E+00	c	1.1E-02	c	5.6E-02	c	6.7E-02	c		2.2E-04	
				2.2E-03	I					1	0.1		Diquat	85-00-7	1.3E+02	n	1.4E+03	n					3.4E+01	n	2.0E+01	6.5E-01	3.7E-01
7.4E+00	C	2.1E-03	C							1	0.1		Direct Black 38	1937-37-7	6.6E-02	c	2.3E-01	c	1.2E-03	c	5.8E-03	c	9.1E-03	c		4.4E+00	
7.4E+00	C	2.1E-03	C							1	0.1		Direct Blue 6	2602-46-2	6.6E-02	c	2.3E-01	c	1.2E-03	c	5.8E-03	c	9.1E-03	c		1.4E+01	
6.7E+00	C	1.9E-03	C							1	0.1		Direct Brown 95	16071-86-6	7.3E-02	c	2.6E-01	c	1.3E-03	c	6.5E-03	c	1.0E-02	c			
				4.0E-05	I					1	0.1		Disulfoton	298-04-4	2.4E+00	n	2.5E+01	n					3.8E-01	n		7.1E-04	
				1.0E-02	I					1	0.1		Dithiane, 1,4-	505-29-3	6.1E+02	n	6.2E+03	n					1.5E+02	n		7.6E-02	
				2.0E-03	I					1	0.1		Diuron	330-54-1	1.2E+02	n	1.2E+03	n					2.8E+01	n		1.2E-02	
				4.0E-03	I					1	0.1		Dodine	2439-10-3	2.4E+02	n	2.5E+03	n					6.2E+01	n		3.2E-01	
				2.5E-02	I			V		1		4.1E+02	EPTC	759-94-4	2.0E+03	ns	2.6E+04	ns					2.9E+02	n		1.5E-01	
				6.0E-03	I					1	0.1		Endosulfan	115-29-7	3.7E+02	n	3.7E+03	n					7.8E+01	n		1.1E+00	
				2.0E-02	I					1	0.1		Endothall	145-73-3	1.2E+03	n	1.2E+04	n					3.0E+02	n	1.0E+02	7.1E-02	2.4E-02
				3.0E-04	I					1	0.1		Endrin	72-20-8	1.8E+01	n	1.8E+02	n					1.7E+00	n	2.0E+00	6.8E-02	8.1E-02
9.9E-03	I	1.2E-06	I	6.0E-03	P	1.0E-03	I	V		1		1.1E+04	Epichlorohydrin	106-89-8	2.0E+01	n	8.8E+01	n	1.0E+00	n	4.4E+00	n	2.0E+00	n		4.5E-04	
						2.0E-02	I	V		1		1.5E+04	Epoxybutane, 1,2-	106-88-7	1.7E+02	n	7.2E+02	n	2.1E+01	n	8.8E+01	n	4.2E+01	n		9.2E-03	
				5.0E-03	I					1	0.1		Ethephon	16672-87-0	3.1E+02	n	3.1E+03	n					7.8E+01	n		1.6E-02	
				5.0E-04	I					1	0.1		Ethion	563-12-2	3.1E+01	n	3.1E+02	n					3.2E+00	n		6.3E-03	
				1.0E-01	P	6.0E-02	P			1	0.1		Ethoxyethanol Acetate, 2-	111-15-9	6.1E+03	n	6.2E+04	n	6.3E+01	n	2.6E+02	n	1.5E+03	n		3.2E-01	
				4.0E-01	H	2.0E-01	I			1	0.1		Ethoxyethanol, 2-	110-80-5	2.4E+04	n	2.5E+05	nm	2.1E+02	n	8.8E+02	n	6.2E+03	n		1.3E+00	
				9.0E-01	I			V		1		1.1E+04	Ethyl Acetate	141-78-6	7.0E+04	ns	9.2E+05	nms					1.4E+04	n		2.9E+00	
4.8E-02	H							V		1		2.5E+03	Ethyl Acrylate	140-88-5	1.3E+01	c	6.0E+01	c					1.4E+00	c		3.0E-04	
						1.0E+01	I	V		1		2.1E+03	Ethyl Chloride	75-00-3	1.5E+04	ns	6.1E+04	ns	1.0E+04	n	4.4E+04	n	2.1E+04	n		5.9E+00	
				2.0E-01	I			V		1		1.0E+04	Ethyl Ether	60-29-7	1.6E+04	ns	2.0E+05	nms					3.1E+03	n		6.8E-01	
				9.0E-02	H	3.0E-01	P	V		1		1.1E+03	Ethyl Methacrylate	97-63-2	1.5E+03	ns	7.5E+03	ns	3.1E+02	n	1.3E+03	n	4.2E+02	n		9.9E-02	
				1.0E-05	I					1	0.1		Ethyl-p-nitrophenyl Phosphonate	2104-64-5	6.1E-01	n	6.2E+00	n					6.6E-02	n		2.1E-03	
1.1E-02	C	2.5E-06	C	1.0E-01	I	1.0E+00	I	V		1		4.8E+02	Ethylbenzene	100-41-4	5.4E+00	c	2.7E+01	c	9.7E-01	c	4.9E+00	c	1.3E+00	c	7.0E+02	1.5E-03	7.8E-01
				3.0E-02	P					1	0.1		Ethylene Cyanohydrin	109-78-4	1.8E+03	n	1.8E+04	n					4.7E+02	n		9.5E-02	
				9.0E-02	P					1	0.1		Ethylene Diamine	107-15-3	5.5E+03	n	5.5E+04	n					1.4E+03	n		3.2E-01	
				2.0E+00	I	4.0E-01	C			1	0.1		Ethylene Glycol	107-21-1	1.2E+05	nm	1.2E+06	nm	4.2E+02	n	1.8E+03	n	3.1E+04	n		6.3E+00	
				1.0E-01	I	1.6E+00	I			1	0.1		Ethylene Glycol Monobutyl Ether	111-76-2	6.1E+03	n	6.2E+04	n	1.7E+03	n	7.0E+03	n	1.5E+03	n		3.2E-01	
3.1E-01	C	8.8E-05	C			3.0E-02	C	V		1		1.2E+05	Ethylene Oxide	75-21-8	1.7E-01	c	8.3E-01	c	2.8E-02	c	1.4E-01	c	4.4E-02	c		9.1E-06	
4.5E-02	C	1.3E-05	C	8.0E-05	I					1	0.1		Ethylene Thiourea	96-45-7	4.9E+00	n	3.8E+01	c**	1.9E-01	c	9.4E-01	c	1.2E+00	n		2.8E-04	
6.5E+01	C	1.9E-02	C							1	0.1		Ethyleneimine	151-56-4	7.5E-03	c	2.7E-02	c	1.3E-04	c	6.5E-04	c	1.0E-03	c		2.2E-07	
				3.0E+00	I					1	0.1		Ethylphthalyl Ethyl Glycolate	84-72-0	1.8E+05	nm	1.8E+06	nm					4.5E+04	n		1.0E+02	
				8.0E-03	I					1	0.1		Express	101200-48-0	4.9E+02	n	4.9E+03	n					1.3E+02	n		4.9E-02	
				2.5E-04	I					1	0.1		Fenamiphos	22224-92-6	1.5E+01	n	1.5E+02	n					3.4E+00	n		3.3E-03	
				2.5E-02	I					1	0.1		Fenpropathrin	39515-41-8	1.5E+03	n	1.5E+04	n					4.6E+01	n		2.1E+00	
				1.3E-02	I					1	0.1		Fluometuron	2164-17-2	7.9E+02	n	8.0E+03	n					1.9E+02	n		1.4E-01	
				4.0E-02	C	1.3E-02	C			1			Fluoride	16984-48-8	3.1E+03	n	4.1E+04	n	1.4E+01	n	5.7E+01	n	6.2E+02	n		9.3E+01	
				6.0E-02	I	1.3E-02	C			1			Fluorine (Soluble Fluoride)	7782-41-4	4.7E+03	n	6.1E+04	n	1.4E+01	n	5.7E+01	n	9.3E+02	n	4.0E+03	1.4E+02	6.0E+02
				8.0E-02	I					1	0.1		Fluridone	59756-60-4	4.9E+03	n	4.9E+04	n					1.1E+03	n		1.3E+02	
				2.0E-02	I					1	0.1		Flurprimidol	56425-91-3	1.2E+03	n	1.2E+04	n					2.6E+02	n		1.2E+00	
				6.0E-02	I					1	0.1		Flutolanil	66332-96-5	3.7E+03	n	3.7E+04	n					7.2E+02	n		3.9E+00	
				1.0E-02	I					1	0.1		Fluvalinate	69409-94-5	6.1E+02	n	6.2E+03	n					1.6E+02	n		2.3E+02	
3.5E-03	I			1.0E-01	I					1	0.1		Folpet	133-07-3	1.4E+02	c*	4.9E+02	c					1.7E+01	c*		4.1E-03	
1.9E-01	I									1	0.1		Fomesafen	72178-02-0	2.6E+00	c	9.1E+00	c					3.4E-01	c		1.1E-03	
				2.0E-03	I					1	0.1		Fonofos	944-22-9	1.2E+02	n	1.2E+03	n					1.8E+01	n		3.5E-02	
		1.3E-05	I	2.0E-01	I	9.8E-03	A			1	0.1		Formaldehyde	50-00-0	1.2E+04	n	1.2E+05	nm	1.9E-01	c*	9.4E-01	c*	3.1E+03	n		6.2E-01	

Key: I = IRIS; P = PPRTV; A = ATSDR; C = Cal EPA; X = PPRTV Appendix; H = HEAST; J = New Jersey; O = EPA Office of Water; E = Environmental Criteria and Assessment Office; S = see user guide Section 5; L = see user guide on lead; M = mutagen; V = volatile; F = See FAQ; c = cancer; * = where: n SL < 100X c SL; ** = where n SL < 10X c SL; n = noncancer; m = Concentration may exceed ceiling limit (See User Guide); s = Concentration may exceed Csat (See User Guide); SSL values are based on DAF=1

Toxicity and Chemical-specific Information													Contaminant		Screening Levels											Protection of Ground	
SFO (mg/kg-day)$^{-1}$	key	IUR (ug/m^3)$^{-1}$	key	RfD_o (mg/kg-day)	key	RfC_i (mg/m^3)	key	vol	muta-gen	GIABS	ABS	C_{sat} (mg/kg)	Analyte	CAS No.	Resident Soil (mg/kg)	key	Industrial Soil (mg/kg)	key	Resident 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)
				9.0E-01	P	3.0E-04	X			1	0.1		Formic Acid	64-18-6	4.9E+04	n	4.2E+05	nm	3.1E-01	n	1.3E+00	n	1.4E+04	n		2.8E+00	
				3.0E+00	I					1	0.1		Fosetyl-AL	39148-24-8	1.8E+05	nm	1.8E+06	nm					4.7E+04	n			
													Furans														
				1.0E-03	X			V		1		1.7E+02	~Dibenzofuran	132-64-9	7.8E+01	n	1.0E+03	ns					5.8E+00	n		1.1E-01	
				1.0E-03	I			V		1		6.2E+03	~Furan	110-00-9	7.8E+01	n	1.0E+03	n					1.5E+01	n		5.7E-03	
3.8E+00	H									1	0.1		Furazolidone	67-45-8	1.3E-01	c	4.5E-01	c					1.8E-02	c		3.4E-05	
				3.0E-03	I	5.0E-02	H			1	0.1		Furfural	98-01-1	1.8E+02	n	1.8E+03	n	5.2E+01	n	2.2E+02	n	4.6E+01	n		9.9E-03	
1.5E+00	C	4.3E-04	C							1	0.1		Furium	531-82-8	3.2E-01	c	1.1E+00	c	5.7E-03	c	2.9E-02	c	4.4E-02	c		5.9E-05	
3.0E-02	I	8.6E-06	C							1	0.1		Furmecyclox	60568-05-0	1.6E+01	c	5.7E+01	c	2.8E-01	c	1.4E+00	c	9.6E-01	c		1.0E-03	
				4.0E-04	I					1	0.1		Glufosinate, Ammonium	77182-82-2	2.4E+01	n	2.5E+02	n					6.3E+00	n		1.4E-03	
						8.0E-05	C			1	0.1		Glutaraldehyde	111-30-8	1.1E+05	nm	4.8E+05	nm	8.3E-02	n	3.5E-01	n					
				4.0E-04	I	1.0E-03	H			1	0.1		Glycidyl	765-34-4	2.4E+01	n	2.5E+02	n	1.0E+00	n	4.4E+00	n	6.3E+00	n		1.3E-03	
				1.0E-01	I					1	0.1		Glyphosate	1071-83-6	6.1E+03	n	6.2E+04	n					1.6E+03	n	7.0E+02	3.2E-01	1.4E-01
				3.0E-03	I					1	0.1		Goal	42874-03-3	1.8E+02	n	1.8E+03	n					2.4E+01	n		1.9E+00	
				3.0E-03	A	1.0E-02	A			1	0.1		Guthion	86-50-0	1.8E+02	n	1.8E+03	n	1.0E+01	n	4.4E+01	n	4.3E+01	n		1.3E-02	
				5.0E-05	I					1	0.1		Haloxyfop, Methyl	69806-40-2	3.1E+00	n	3.1E+01	n					5.8E-01	n		6.4E-03	
				1.3E-02	I					1	0.1		Harmony	79277-27-3	7.9E+02	n	8.0E+03	n					2.0E+02	n		6.1E-02	
4.5E+00	I	1.3E-03	I	5.0E-04	I					1	0.1		Heptachlor	76-44-8	1.1E-01	c	3.8E-01	c	1.9E-03	c	9.4E-03	c	1.8E-03	c	4.0E-01	1.4E-04	3.3E-02
9.1E+00	I	2.6E-03	I	1.3E-05	I					1	0.1		Heptachlor Epoxide	1024-57-3	5.3E-02	c*	1.9E-01	c*	9.4E-04	c	4.7E-03	c	3.3E-03	c*	2.0E-01	6.8E-05	4.1E-03
				2.0E-03	I					1	0.1		Hexabromobenzene	87-82-1	1.2E+02	n	1.2E+03	n					3.1E+01	n		1.8E-01	
				2.0E-04	I					1	0.1		Hexabromodiphenyl ether, 2,2',4,4',5,5'- (BDE-153)	68631-49-2	1.2E+01	n	1.2E+02	n					3.1E+00	n			
1.6E+00	I	4.6E-04	I	8.0E-04	I					1	0.1		Hexachlorobenzene	118-74-1	3.0E-01	c	1.1E+00	c	5.3E-03	c	2.7E-02	c	4.2E-02	c	1.0E+00	5.3E-04	1.3E-02
7.8E-02	I	2.2E-05	I	1.0E-03	P					1	0.1		Hexachlorobutadiene	87-68-3	6.2E+00	c**	2.2E+01	c*	1.1E-01	c	5.6E-01	c	2.6E-01	c*		5.0E-04	
6.3E+00	I	1.8E-03	I	8.0E-03	A					1	0.1		Hexachlorocyclohexane, Alpha-	319-84-6	7.7E-02	c	2.7E-01	c	1.4E-03	c	6.8E-03	c	6.2E-03	c		3.6E-05	
1.8E+00	I	5.3E-04	I							1	0.1		Hexachlorocyclohexane, Beta-	319-85-7	2.7E-01	c	9.6E-01	c	4.6E-03	c	2.3E-02	c	2.2E-02	c		1.3E-04	
1.1E+00	C	3.1E-04	C	3.0E-04	I					1	0.04		Hexachlorocyclohexane, Gamma- (Lindane)	58-89-9	5.2E-01	c*	2.1E+00	c	7.8E-03	c	4.0E-02	c	3.6E-02	c*	2.0E-01	2.1E-04	1.2E-03
1.8E+00	I	5.1E-04	I							1	0.1		Hexachlorocyclohexane, Technical	608-73-1	2.7E-01	c	9.6E-01	c	4.8E-03	c	2.4E-02	c	2.2E-02	c		1.3E-04	
				6.0E-03	I	2.0E-04	I			1	0.1		Hexachlorocyclopentadiene	77-47-4	3.7E+02	n	3.7E+03	n	2.1E-01	n	8.8E-01	n	2.2E+01	n	5.0E+01	7.0E-02	1.6E-01
4.0E-02	I	1.1E-05	C	7.0E-04	I	3.0E-02	I			1	0.1		Hexachloroethane	67-72-1	1.2E+01	c**	4.3E+01	c*	2.2E-01	c	1.1E+00	c	7.9E-01	c**		4.8E-04	
				3.0E-04	I					1	0.1		Hexachlorophene	70-30-4	1.8E+01	n	1.8E+02	n					4.7E+00	n		6.3E+00	
1.1E-01	I			3.0E-03	I					1	0.015		Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	5.6E+00	c*	2.4E+01	c					6.1E-01	c*		2.3E-04	
						1.0E-05	I	V		1		5.2E+03	Hexamethylene Diisocyanate, 1,6-	822-06-0	3.4E+00	n	1.4E+01	n	1.0E-02	n	4.4E-02	n	2.1E-02	n		2.1E-04	
				6.0E-02	H	7.0E-01	I	V		1		1.4E+02	Hexane, N-	110-54-3	5.7E+02	ns	2.6E+03	ns	7.3E+02	n	3.1E+03	n	2.5E+02	n		1.8E+00	
				2.0E+00	P					1	0.1		Hexanedioic Acid	124-04-9	1.2E+05	nm	1.2E+06	nm					3.1E+04	n		7.7E+00	
				5.0E-03	I	3.0E-02	I	V		1		3.3E+03	Hexanone, 2-	591-78-6	2.1E+02	n	1.4E+03	n	3.1E+01	n	1.3E+02	n	3.4E+01	n		7.9E-03	
				3.3E-02	I					1	0.1		Hexazinone	51235-04-2	2.0E+03	n	2.0E+04	n					5.0E+02	n		2.3E-01	
3.0E+00	I	4.9E-03	I			3.0E-05	P			1			Hydrazine	302-01-2	2.1E-01	c	9.5E-01	c	5.0E-04	c*	2.5E-03	c*	2.2E-02	c			
3.0E+00	I	4.9E-03	I							1			Hydrazine Sulfate	10034-93-2	2.1E-01	c	9.5E-01	c	5.0E-04	c	2.5E-03	c	2.2E-02	c			
						2.0E-02	I			1			Hydrogen Chloride	7647-01-0	2.8E+07	nm	1.2E+08	nm	2.1E+01	n	8.8E+01	n				
				4.0E-02	C	1.4E-02	C			1			Hydrogen Fluoride	7664-39-3	3.1E+03	n	4.1E+04	n	1.5E+01	n	6.1E+01	n	6.2E+02	n			
						2.0E-03	I			1			Hydrogen Sulfide	7783-06-4	2.8E+06	nm	1.2E+07	nm	2.1E+00	n	8.8E+00	n					
6.0E-02	P			4.0E-02	P					1	0.1		Hydroquinone	123-31-9	8.1E+00	c	2.9E+01	c					1.1E+00	c		7.5E-04	
				1.3E-02	I					1	0.1		Imazalil	35554-44-0	7.9E+02	n	8.0E+03	n					1.4E+02	n		2.5E+00	
				2.5E-01	I					1	0.1		Imazaquin	81335-37-7	1.5E+04	n	1.5E+05	nm					3.8E+03	n		1.9E+01	
				1.0E-02	A					1			Iodine	7553-56-2	7.8E+02	n	1.0E+04	n					1.6E+02	n		9.4E+00	
				4.0E-02	I					1	0.1		Iprodione	36734-19-7	2.4E+03	n	2.5E+04	n					5.7E+02	n		1.7E-01	
				7.0E-01	P					1			Iron	7439-89-6	5.5E+04	n	7.2E+05	nm					1.1E+04	n		2.7E+02	
				3.0E-01	I			V		1		1.0E+04	Isobutyl Alcohol	78-83-1	2.3E+04	ns	3.1E+05	nms					4.6E+03	n		9.5E-01	
9.5E-04	I			2.0E-01	I	2.0E+00	C			1	0.1		Isophorone	78-59-1	5.1E+02	c*	1.8E+03	c*	2.1E+03	n	8.8E+03	n	6.7E+01	c*		2.2E-02	
				1.5E-02	I					1	0.1		Isopropalin	33820-53-0	9.2E+02	n	9.2E+03	n					2.3E+02	n		5.4E+00	
						7.0E+00	C			1	0.1		Isopropanol	67-63-0	9.9E+09	nm	4.2E+10	nm	7.3E+03	n	3.1E+04	n				
				1.0E-01	I					1	0.1		Isopropyl Methyl Phosphonic Acid	1832-54-8	6.1E+03	n	6.2E+04	n					1.6E+03	n		3.4E-01	
				5.0E-02	I					1	0.1		Isoxaben	82558-50-7	3.1E+03	n	3.1E+04	n					5.6E+02	n		1.5E+00	
						3.0E-01	A	V		1			JP-7	NA	4.3E+08	nm	1.8E+09	nm	3.1E+02	n	1.3E+03	n	6.3E+02	n			
				7.5E-02	I					1	0.1		Kerb	23950-58-5	4.6E+03	n	4.6E+04	n					9.0E+02	n		9.1E-01	
				2.0E-03	I					1	0.1		Lactofen	77501-63-4	1.2E+02	n	1.2E+03	n					1.9E+01	n		8.7E-01	
													Lead Compounds														
2.8E-01	C	8.0E-05	C							1	0.1		~Lead acetate	301-04-2	1.7E+00	c	6.2E+00	c	3.0E-02	c	1.5E-01	c	2.4E-01	c			
										1			~Lead and Compounds	7439-92-1	4.0E+02	n	8.0E+02	n							1.5E+01		1.4E+01
3.8E-02	C	1.1E-05	C							1	0.1		~Lead subacetate	1335-32-6	1.3E+01	c	4.5E+01	c	2.2E-01	c	1.1E+00	c	1.8E+00	c			
				1.0E-07	I					1	0.1		~Tetraethyl Lead	78-00-2	6.1E-03	n	6.2E-02	n					9.9E-04	n		3.5E-06	
				2.0E-03	I					1	0.1		Linuron	330-55-2	1.2E+02	n	1.2E+03	n					2.6E+01	n		2.3E-02	
				2.0E-03	P					1			Lithium	7439-93-2	1.6E+02	n	2.0E+03	n					3.1E+01	n		9.3E+00	
				2.0E-01	I					1	0.1		Londax	83055-99-6	1.2E+04	n	1.2E+05	nm					3.1E+03	n		7.9E-01	
				5.0E-04	I					1	0.1		MCPA	94-74-6	3.1E+01	n	3.1E+02	n					5.7E+00	n		1.5E-03	

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Toxicity and Chemical-specific Information													Contaminant		Screening Levels											Protection of Ground	
SFO (mg/kg-day)$^{-1}$	key	IUR (ug/m^3)$^{-1}$	key	RfD_o (mg/kg-day)	key	RfC_i (mg/m^3)	key	volatile	muta-gen	GIABS	ABS	C_{sat} (mg/kg)	Analyte	CAS No.	Resident Soil (mg/kg)	key	Industrial Soil (mg/kg)	key	Resident 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)
				1.0E-02	I					1	0.1		MCPB	94-81-5	6.1E+02	n	6.2E+03	n					1.6E+02	n		6.2E-02	
				1.0E-03	I					1	0.1		MCPP	93-65-2	6.1E+01	n	6.2E+02	n					1.2E+01	n		3.5E-03	
				2.0E-02	I					1	0.1		Malathion	121-75-5	1.2E+03	n	1.2E+04	n					3.0E+02	n		7.9E-02	
				1.0E-01	I	7.0E-04	C			1	0.1		Maleic Anhydride	108-31-6	6.1E+03	n	6.1E+04	n	7.3E-01	n	3.1E+00	n	1.5E+03	n		3.0E-01	
				5.0E-01	I					1	0.1		Maleic Hydrazide	123-33-1	3.1E+04	n	3.1E+05	nm					7.8E+03	n		1.6E+00	
				1.0E-04	P					1	0.1		Malononitrile	109-77-3	6.1E+00	n	6.2E+01	n					1.6E+00	n		3.2E-04	
				3.0E-02	H					1	0.1		Mancozeb	8018-01-7	1.8E+03	n	1.8E+04	n					4.7E+02	n		6.6E-01	
				5.0E-03	I					1	0.1		Maneb	12427-38-2	3.1E+02	n	3.1E+03	n					7.8E+01	n		1.1E-01	
				1.4E-01	I	5.0E-05	I			1			Manganese (Diet)	7439-96-5													
				2.4E-02	S	5.0E-05	I			0.04			Manganese (Non-diet)	7439-96-5	1.8E+03	n	2.3E+04	n	5.2E-02	n	2.2E-01	n	3.2E+02	n		2.1E+01	
				9.0E-05	H					1	0.1		Mephosfolan	950-10-7	5.5E+00	n	5.5E+01	n					1.4E+00	n		2.1E-03	
				3.0E-02	I					1	0.1		Mepiquat Chloride	24307-26-4	1.8E+03	n	1.8E+04	n					4.7E+02	n		1.6E-01	
													Mercury Compounds														
				3.0E-04	I	3.0E-05	C			0.07			~Mercuric Chloride (and other Mercury salts)	7487-94-7	2.3E+01	n	3.1E+02	n	3.1E-02	n	1.3E-01	n	4.3E+00	n	2.0E+00		
						3.0E-04	I	V		1		3.1E+00	~Mercury (elemental)	7439-97-6	1.0E+01	ns	4.3E+01	ns	3.1E-01	n	1.3E+00	n	6.3E-01	n	2.0E+00	3.3E-02	1.0E-01
				1.0E-04	I					1			~Methyl Mercury	22967-92-6	7.8E+00	n	1.0E+02	n					1.6E+00	n			
				8.0E-05	I					1	0.1		~Phenylmercuric Acetate	62-38-4	4.9E+00	n	4.9E+01	n					1.2E+00	n		3.9E-04	
				3.0E-05	I					1	0.1		Merphos	150-50-5	1.8E+00	n	1.8E+01	n					4.7E-01	n		4.6E-02	
				3.0E-05	I					1	0.1		Merphos Oxide	78-48-8	1.8E+00	n	1.8E+01	n					6.1E-02	n		3.0E-04	
				6.0E-02	I					1	0.1		Metalaxyl	57837-19-1	3.7E+03	n	3.7E+04	n					9.2E+02	n		2.5E-01	
				1.0E-04	I	7.0E-04	H	V		1		4.6E+03	Methacrylonitrile	126-98-7	3.2E+00	n	1.8E+01	n	7.3E-01	n	3.1E+00	n	7.5E-01	n		1.7E-04	
				5.0E-05	I					1	0.1		Methamidophos	10265-92-6	3.1E+00	n	3.1E+01	n					7.8E-01	n		1.6E-04	
				5.0E-01	I	4.0E+00	C			1	0.1		Methanol	67-56-1	3.1E+04	n	3.1E+05	nm	4.2E+03	n	1.8E+04	n	7.8E+03	n		1.6E+00	
				1.0E-03	I					1	0.1		Methidathion	950-37-8	6.1E+01	n	6.2E+02	n					1.5E+01	n		3.7E-03	
				2.5E-02	I					1	0.1		Methomyl	16752-77-5	1.5E+03	n	1.5E+04	n					3.9E+02	n		8.5E-02	
4.9E-02	C	1.4E-05	C							1	0.1		Methoxy-5-nitroaniline, 2-	99-59-2	9.9E+00	c	3.5E+01	c	1.7E-01	c	8.8E-01	c	1.3E+00	c		4.6E-04	
				5.0E-03	I					1	0.1		Methoxychlor	72-43-5	3.1E+02	n	3.1E+03	n					2.7E+01	n	4.0E+01	1.5E+00	2.2E+00
				8.0E-03	P	1.0E-03	P			1	0.1		Methoxyethanol Acetate, 2-	110-49-6	4.9E+02	n	4.9E+03	n	1.0E+00	n	4.4E+00	n	1.3E+02	n		2.6E-02	
				5.0E-03	P	2.0E-02	I			1	0.1		Methoxyethanol, 2-	109-86-4	3.1E+02	n	3.1E+03	n	2.1E+01	n	8.8E+01	n	7.8E+01	n		1.6E-02	
				1.0E+00	X			V		1		2.9E+04	Methyl Acetate	79-20-9	7.8E+04	ns	1.0E+06	nms					1.6E+04	n		3.2E+00	
				3.0E-02	H			V		1		6.8E+03	Methyl Acrylate	96-33-3	2.3E+03	n	3.1E+04	ns					4.6E+02	n		9.8E-02	
				6.0E-01	I	5.0E+00	I	V		1		2.8E+04	Methyl Ethyl Ketone (2-Butanone)	78-93-3	2.8E+04	n	2.0E+05	nms	5.2E+03	n	2.2E+04	n	4.9E+03	n		1.0E+00	
		1.0E-03	X	1.0E-03	P	2.0E-05	X			1	0.1		Methyl Hydrazine	60-34-4	6.1E+01	n	6.1E+02	n	2.4E-03	c**	1.2E-02	c**	1.6E+01	n		3.5E-03	
				8.0E-02	H	3.0E+00	I	V		1		3.4E+03	Methyl Isobutyl Ketone (4-methyl-2-pentanone)	108-10-1	5.3E+03	ns	5.3E+04	ns	3.1E+03	n	1.3E+04	n	1.0E+03	n		2.3E-01	
						1.0E-03	C			1	0.1		Methyl Isocyanate	624-83-9	1.4E+06	nm	6.0E+06	nm	1.0E+00	n	4.4E+00	n					
				1.4E+00	I	7.0E-01	I	V		1		2.4E+03	Methyl Methacrylate	80-62-6	4.8E+03	ns	2.1E+04	ns	7.3E+02	n	3.1E+03	n	1.4E+03	n		3.0E-01	
				2.5E-04	I					1	0.1		Methyl Parathion	298-00-0	1.5E+01	n	1.5E+02	n					3.4E+00	n		5.7E-03	
				6.0E-02	X					1	0.1		Methyl Phosphonic Acid	993-13-5	3.7E+03	n	3.7E+04	n					9.4E+02	n		1.9E-01	
				6.0E-03	H	4.0E-02	H	V		1		3.8E+02	Methyl Styrene (Mixed Isomers)	25013-15-4	2.5E+02	n	1.6E+03	ns	4.2E+01	n	1.8E+02	n	3.1E+01	n		5.0E-02	
9.9E-02	C	2.8E-05	C							1	0.1		Methyl methanesulfonate	66-27-3	4.9E+00	c	1.7E+01	c	8.7E-02	c	4.4E-01	c	6.8E-01	c		1.4E-04	
1.8E-03	C	2.6E-07	C			3.0E+00	I	V		1		8.9E+03	Methyl tert-Butyl Ether (MTBE)	1634-04-4	4.3E+01	c	2.2E+02	c	9.4E+00	c	4.7E+01	c	1.2E+01	c		2.8E-03	
				2.0E-04	X					1	0.1		Methyl-1,4-benzenediamine dihydrochloride, 2-	615-45-2	1.2E+01	n	1.2E+02	n					3.1E+00	n		1.9E-03	
9.0E-03	P			2.0E-02	X					1	0.1		Methyl-5-Nitroaniline, 2-	99-55-8	5.4E+01	c*	1.9E+02	c*					7.0E+00	c*		3.9E-03	
8.3E+00	C	2.4E-03	C							1	0.1		Methyl-N-nitro-N-nitrosoguanidine, N-	70-25-7	5.9E-02	c	2.1E-01	c	1.0E-03	c	5.1E-03	c	8.1E-03	c		2.8E-06	
1.3E-01	C	3.7E-05	C							1	0.1		Methylaniline Hydrochloride, 2-	636-21-5	3.7E+00	c	1.3E+01	c	6.6E-02	c	3.3E-01	c	5.0E-01	c		2.1E-04	
				1.0E-02	A					1	0.1		Methylarsonic acid	124-58-3	6.1E+02	n	6.2E+03	n					1.6E+02	n			
				2.0E-04	X					1	0.1		Methylbenzene,1-4-diamine monohydrochloride, 2-	74612-12-7	1.2E+01	n	1.2E+02	n					3.1E+00	n			
				2.0E-04	X					1	0.1		Methylbenzene-1,4-diamine sulfate, 2-	615-50-9	1.2E+01	n	1.2E+02	n					3.1E+00	n			
2.2E+01	C	6.3E-03	C						M	1	0.1		Methylcholanthrene, 3-	56-49-5	5.2E-03	c	7.8E-02	c	1.5E-04	c	1.9E-03	c	9.8E-04	c		1.9E-03	
7.5E-03	I	4.7E-07	I	6.0E-02	I	1.0E+00	A	V		1		3.3E+03	Methylene Chloride	75-09-2	1.1E+01	c	5.3E+01	c	5.2E+00	c	2.6E+01	c	4.7E+00	c	5.0E+00	1.2E-03	1.3E-03
1.0E-01	P	4.3E-04	C	2.0E-03	P				M	1	0.1		Methylene-bis(2-chloroaniline), 4,4'-	101-14-4	1.2E+00	c	1.7E+01	c*	2.2E-03	c	2.9E-02	c	1.4E-01	c		1.6E-03	
4.6E-02	I	1.3E-05	C							1	0.1		Methylene-bis(N,N-dimethyl) Aniline, 4,4'-	101-61-1	1.1E+01	c	3.7E+01	c	1.9E-01	c	9.4E-01	c	6.0E-01	c		3.3E-03	
1.6E+00	C	4.6E-04	C			2.0E-02	C			1	0.1		Methylenebisbenzenamine, 4,4'-	101-77-9	3.0E-01	c	1.1E+00	c	5.3E-03	c	2.7E-02	c	4.1E-02	c		1.8E-04	
						6.0E-04	I			1	0.1		Methylenediphenyl Diisocyanate	101-68-8	8.5E+05	nm	3.6E+06	nm	6.3E-01	n	2.6E+00	n					
				7.0E-02	H			V		1		5.0E+02	Methylstyrene, Alpha-	98-83-9	5.5E+03	ns	7.2E+04	ns					5.8E+02	n		9.3E-01	
				1.5E-01	I					1	0.1		Metolachlor	51218-45-2	9.2E+03	n	9.2E+04	n					2.1E+03	n		2.5E+00	
				2.5E-02	I					1	0.1		Metribuzin	21087-64-9	1.5E+03	n	1.5E+04	n					3.8E+02	n		1.2E-01	
				3.0E+00	P					1	0.1		Mineral oils	8012-95-1	1.8E+05	nm	1.8E+06	nm					4.7E+04	n		1.9E+03	
1.8E+01	C	5.1E-03	C	2.0E-04	I					1	0.1		Mirex	2385-85-5	2.7E-02	c	9.6E-02	c	4.8E-04	c	2.4E-03	c	3.7E-03	c		2.7E-03	
				2.0E-03	I					1	0.1		Molinate	2212-67-1	1.2E+02	n	1.2E+03	n					2.3E+01	n		1.3E-02	
				5.0E-03	I					1			Molybdenum	7439-98-7	3.9E+02	n	5.1E+03	n					7.8E+01	n		1.6E+00	
				1.0E-01	I					1			Monochloramine	10599-90-3	7.8E+03	n	1.0E+05	nm					1.6E+03	n			
				2.0E-03	P					1	0.1		Monomethylaniline	100-61-8	1.2E+02	n	1.2E+03	n					3.0E+01	n		1.1E-02	
				3.0E-04	X					1	0.1		N,N'-Diphenyl-1,4-benzenediamine	74-31-7	1.8E+01	n	1.8E+02	n					2.7E+00	n		2.8E-01	
				2.0E-03	I					1	0.1		Naled	300-76-5	1.2E+02	n	1.2E+03	n					3.1E+01	n		1.4E-02	

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SFO (mg/kg-day)$^{-1}$	key	IUR (ug/m^3)$^{-1}$	key	RfD_o (mg/kg-day)	key	RfC_i (mg/m^3)	key	volc	muta-gen	GIABS	ABS	C_{sat} (mg/kg)	Analyte	CAS No.	Resident Soil (mg/kg)	key	Industrial Soil (mg/kg)	key	Resident 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)
				3.0E-02	X	1.0E-01	P	V		1			Naphtha, High Flash Aromatic (HFAN)	64724-95-6	2.3E+03	n	3.1E+04	n	1.0E+02	n	4.4E+02	n	1.4E+02	n			
1.8E+00	C	0.0E+00	C							1	0.1		Naphthylamine, 2-	91-59-8	2.7E-01	c	9.6E-01	c					3.3E-02	c		1.7E-04	
				1.0E-01	I					1	0.1		Napropamide	15299-99-7	6.1E+03	n	6.2E+04	n					1.3E+03	n		8.3E+00	
				5.0E-02	C	5.0E-05	C			0.04			Nickel Carbonyl	13463-39-3	3.7E+03	n	4.4E+04	n	5.2E-02	n	2.2E-01	n	6.7E+02	n			
				5.0E-02	C	1.0E-04	C			1			Nickel Oxide	1313-99-1	3.8E+03	n	4.7E+04	n	1.0E-01	n	4.4E-01	n	7.8E+02	n			
		2.4E-04	I	5.0E-02	C	5.0E-05	C			0.04			Nickel Refinery Dust	NA	3.7E+03	n	4.4E+04	n	1.0E-02	c**	5.1E-02	c**	7.6E+02	n		1.1E+02	
		2.6E-04	C	2.0E-02	I	9.0E-05	A			0.04			Nickel Soluble Salts	7440-02-0	1.5E+03	n	2.0E+04	n	9.4E-03	c*	4.7E-02	c**	3.0E+02	n		2.0E+01	
1.7E+00	C	4.8E-04	I	5.0E-02	C	5.0E-05	C			0.04			Nickel Subsulfide	12035-72-2	3.8E-01	c	1.7E+00	c	5.1E-03	c*	2.6E-02	c**	3.9E-02	c			
				1.6E+00	I					1			Nitrate	14797-55-8	1.3E+05	nm	1.6E+06	nm					2.5E+04	n	1.0E+04		
				1.0E-01	I					1			Nitrite	14797-65-0	7.8E+03	n	1.0E+05	nm					1.6E+03	n	1.0E+03		
				1.0E-02	X	5.0E-05	X			1	0.1		Nitroaniline, 2-	88-74-4	6.1E+02	n	6.0E+03	n	5.2E-02	n	2.2E-01	n	1.5E+02	n		6.2E-02	
2.0E-02	P			4.0E-03	P	6.0E-03	P			1	0.1		Nitroaniline, 4-	100-01-6	2.4E+01	c*	8.6E+01	c*	6.3E+00	n	2.6E+01	n	3.3E+00	c*		1.4E-03	
		4.0E-05	I	2.0E-03	I	9.0E-03	I	V		1		3.1E+03	Nitrobenzene	98-95-3	4.8E+00	c*	2.4E+01	c*	6.1E-02	c	3.1E-01	c	1.2E-01	c*		7.9E-05	
				3.0E+03	P					1	0.1		Nitrocellulose	9004-70-0	1.8E+08	nm	1.8E+09	nm					4.7E+07	n		1.0E+04	
				7.0E-02	H					1	0.1		Nitrofurantoin	67-20-9	4.3E+03	n	4.3E+04	n					1.1E+03	n		4.7E-01	
1.3E+00	C	3.7E-04	C							1	0.1		Nitrofurazone	59-87-0	3.7E-01	c	1.3E+00	c	6.6E-03	c	3.3E-02	c	5.2E-02	c		4.6E-05	
1.7E-02	P			1.0E-04	P					1	0.1		Nitroglycerin	55-63-0	6.1E+00	n	6.2E+01	n					1.5E+00	n		6.6E-04	
				1.0E-01	I					1	0.1		Nitroguanidine	556-88-7	6.1E+03	n	6.2E+04	n					1.6E+03	n		3.8E-01	
		9.0E-06	P			2.0E-02	P	V		1		1.8E+04	Nitromethane	75-52-5	4.9E+00	c*	2.5E+01	c*	2.7E-01	c*	1.4E+00	c*	5.4E-01	c*		1.2E-04	
		2.7E-03	H			2.0E-02	I	V		1		4.9E+03	Nitropropane, 2-	79-46-9	1.3E-02	c	6.4E-02	c	9.0E-04	c	4.5E-03	c	1.8E-03	c		4.7E-07	
2.7E+01	C	7.7E-03	C						M	1	0.1		Nitroso-N-ethylurea, N-	759-73-9	4.3E-03	c	6.4E-02	c	1.2E-04	c	1.6E-03	c	7.9E-04	c		1.9E-07	
1.2E+02	C	3.4E-02	C						M	1	0.1		Nitroso-N-methylurea, N-	684-93-5	9.6E-04	c	1.4E-02	c	2.8E-05	c	3.6E-04	c	1.8E-04	c		4.0E-08	
5.4E+00	I	1.6E-03	I					V		1		7.1E+03	Nitroso-di-N-butylamine, N-	924-16-3	8.7E-02	c	4.0E-01	c	1.5E-03	c	7.7E-03	c	2.4E-03	c		4.8E-06	
7.0E+00	I	2.0E-03	C							1	0.1		Nitroso-di-N-propylamine, N-	621-64-7	6.9E-02	c	2.5E-01	c	1.2E-03	c	6.1E-03	c	9.3E-03	c		7.0E-06	
2.8E+00	I	8.0E-04	C							1	0.1		Nitrosodiethanolamine, N-	1116-54-7	1.7E-01	c	6.2E-01	c	3.0E-03	c	1.5E-02	c	2.4E-02	c		4.8E-06	
1.5E+02	I	4.3E-02	I						M	1	0.1		Nitrosodiethylamine, N-	55-18-5	7.7E-04	c	1.1E-02	c	2.2E-05	c	2.9E-04	c	1.4E-04	c		5.2E-08	
5.1E+01	I	1.4E-02	I	8.0E-06	P	4.0E-05	X		M	1	0.1		Nitrosodimethylamine, N-	62-75-9	2.3E-03	c	3.4E-02	c	6.9E-05	c	8.8E-04	c	4.2E-04	c		1.0E-07	
4.9E-03	I	2.6E-06	C							1	0.1		Nitrosodiphenylamine, N-	86-30-6	9.9E+01	c	3.5E+02	c	9.4E-01	c	4.7E+00	c	1.0E+01	c		5.7E-02	
2.2E+01	I	6.3E-03	C							1	0.1		Nitrosomethylethylamine, N-	10595-95-6	2.2E-02	c	7.8E-02	c	3.9E-04	c	1.9E-03	c	3.0E-03	c		8.7E-07	
6.7E+00	C	1.9E-03	C							1	0.1		Nitrosomorpholine [N-]	59-89-2	7.3E-02	c	2.6E-01	c	1.3E-03	c	6.5E-03	c	1.0E-02	c		2.5E-06	
9.4E+00	C	2.7E-03	C							1	0.1		Nitrosopiperidine [N-]	100-75-4	5.2E-02	c	1.8E-01	c	9.0E-04	c	4.5E-03	c	7.1E-03	c		3.8E-06	
2.1E+00	I	6.1E-04	I							1	0.1		Nitrosopyrrolidine, N-	930-55-2	2.3E-01	c	8.2E-01	c	4.0E-03	c	2.0E-02	c	3.2E-02	c		1.2E-05	
				1.0E-04	X					1	0.1		Nitrotoluene, m-	99-08-1	6.1E+00	n	6.2E+01	n					1.3E+00	n		1.2E-03	
2.2E-01	P			9.0E-04	P			V		1		1.5E+03	Nitrotoluene, o-	88-72-2	2.9E+00	c*	1.3E+01	c*					2.7E-01	c*		2.5E-04	
1.6E-02	P			4.0E-03	P					1	0.1		Nitrotoluene, p-	99-99-0	3.0E+01	c**	1.1E+02	c*					3.7E+00	c*		3.4E-03	
				3.0E-04	X	2.0E-01	P	V		1		6.9E+00	Nonane, n-	111-84-2	2.1E+01	ns	2.3E+02	ns	2.1E+02	n	8.8E+02	n	4.6E+00	n		6.6E-02	
				4.0E-02	I					1	0.1		Norflurazon	27314-13-2	2.4E+03	n	2.5E+04	n					6.0E+02	n		3.9E+00	
				7.0E-04	I					1	0.1		Nustar	85509-19-9	4.3E+01	n	4.3E+02	n					8.3E+00	n		1.4E+00	
				3.0E-03	I					1	0.1		Octabromodiphenyl Ether	32536-52-0	1.8E+02	n	1.8E+03	n					4.7E+01	n		9.3E+00	
				5.0E-02	I					1	0.006		Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetra (HMX)	2691-41-0	3.8E+03	n	4.9E+04	n					7.8E+02	n		9.9E-01	
				2.0E-03	H					1	0.1		Octamethylpyrophosphoramide	152-16-9	1.2E+02	n	1.2E+03	n					3.1E+01	n		7.5E-03	
				5.0E-02	I					1	0.1		Oryzalin	19044-88-3	3.1E+03	n	3.1E+04	n					6.2E+02	n		1.1E+00	
				5.0E-03	I					1	0.1		Oxadiazon	19666-30-9	3.1E+02	n	3.1E+03	n					3.5E+01	n		3.6E-01	
				2.5E-02	I					1	0.1		Oxamyl	23135-22-0	1.5E+03	n	1.5E+04	n					3.9E+02	n	2.0E+02	8.6E-02	4.4E-02
				1.3E-02	I					1	0.1		Paclobutrazol	76738-62-0	7.9E+02	n	8.0E+03	n					1.7E+02	n		3.6E-01	
				4.5E-03	I					1	0.1		Paraquat Dichloride	1910-42-5	2.7E+02	n	2.8E+03	n					7.0E+01	n		9.7E-01	
				6.0E-03	H					1	0.1		Parathion	56-38-2	3.7E+02	n	3.7E+03	n					6.5E+01	n		3.3E-01	
				5.0E-02	H					1	0.1		Pebulate	1114-71-2	3.1E+03	n	3.1E+04	n					4.2E+02	n		3.3E-01	
				4.0E-02	I					1	0.1		Pendimethalin	40487-42-1	2.4E+03	n	2.5E+04	n					1.3E+02	n		1.5E+00	
				2.0E-03	I					1	0.1		Pentabromodiphenyl Ether	32534-81-9	1.2E+02	n	1.2E+03	n					3.1E+01	n		1.4E+00	
				1.0E-04	I					1	0.1		Pentabromodiphenyl ether, 2,2',4,4',5- (BDE-99)	60348-60-9	6.1E+00	n	6.2E+01	n					1.6E+00	n		6.8E-02	
				8.0E-04	I					1	0.1		Pentachlorobenzene	608-93-5	4.9E+01	n	4.9E+02	n					2.3E+00	n		1.7E-02	
9.0E-02	P									1	0.1		Pentachloroethane	76-01-7	5.4E+00	c	1.9E+01	c					5.6E-01	c		2.7E-04	
2.6E-01	H			3.0E-03	I					1	0.1		Pentachloronitrobenzene	82-68-8	1.9E+00	c*	6.6E+00	c					1.0E-01	c		1.3E-03	
4.0E-01	I	5.1E-06	C	5.0E-03	I					1	0.25		Pentachlorophenol	87-86-5	8.9E-01	c	2.7E+00	c	4.8E-01	c	2.4E+00	c	1.7E-01	c	1.0E+00	1.7E-03	1.0E-02
4.0E-03	X			2.0E-03	P					1	0.1		Pentaerythritol tetranitrate (PETN)	78-11-5	1.2E+02	c**	4.3E+02	c**					1.6E+01	c**		2.4E-02	
						1.0E+00	P	V		1		3.9E+02	Pentane, n-	109-66-0	8.7E+02	ns	3.7E+03	ns	1.0E+03	n	4.4E+03	n	2.1E+03	n		1.0E+01	
													Perchlorates														
				7.0E-04	I					1			~Ammonium Perchlorate	7790-98-9	5.5E+01	n	7.2E+02	n					1.1E+01	n			
				7.0E-04	I					1			~Lithium Perchlorate	7791-03-9	5.5E+01	n	7.2E+02	n					1.1E+01	n			
				7.0E-04	I					1			~Perchlorate and Perchlorate Salts	14797-73-0	5.5E+01	n	7.2E+02	n					1.1E+01	n	1.5E+01(F)		
				7.0E-04	I					1			~Potassium Perchlorate	7778-74-7	5.5E+01	n	7.2E+02	n					1.1E+01	n			
				7.0E-04	I					1			~Sodium Perchlorate	7601-89-0	5.5E+01	n	7.2E+02	n					1.1E+01	n			
				5.0E-02	I					1	0.1		Permethrin	52645-53-1	3.1E+03	n	3.1E+04	n					7.8E+02	n		1.9E+02	
2.2E-03	C	6.3E-07	C							1	0.1		Phenacetin	62-44-2	2.2E+02	c	7.8E+02	c	3.9E+00	c	1.9E+01	c	3.0E+01	c		8.3E-03	

Key: I = IRIS; P = PPRTV; A = ATSDR; C = Cal EPA; X = PPRTV Appendix; H = HEAST; J = New Jersey; O = EPA Office of Water; E = Environmental Criteria and Assessment Office; S = see user guide Section 5; L = see user guide on lead; M = mutagen; V = volatile; F = See FAQ; c = cancer; * = where: n SL < 100X c SL; ** = where n SL < 10X c SL; n = noncancer; m = Concentration may exceed ceiling limit (See User Guide); s = Concentration may exceed Csat (See User Guide); SSL values are based on DAF=1

Toxicity and Chemical-specific Information													Contaminant		Screening Levels											Protection of Ground	
SFO (mg/kg-day)$^{-1}$	key	IUR (ug/m^3)$^{-1}$	key	RfD_o (mg/kg-day)	key	RfC_i (mg/m^3)	key	volc	muta-gen	GIABS	ABS	C_{sat} (mg/kg)	Analyte	CAS No.	Resident Soil (mg/kg)	key	Industrial Soil (mg/kg)	key	Resident 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)
				2.5E-01	I					1	0.1		Phenmedipham	13684-63-4	1.5E+04	n	1.5E+05	nm					3.0E+03	n		1.6E+01	
				3.0E-01	I	2.0E-01	C			1	0.1		Phenol	108-95-2	1.8E+04	n	1.8E+05	nm	2.1E+02	n	8.8E+02	n	4.5E+03	n		2.6E+00	
				5.0E-04	X					1	0.1		Phenothiazine	92-84-2	3.1E+01	n	3.1E+02	n					3.2E+00	n		1.0E-02	
				6.0E-03	I					1	0.1		Phenylenediamine, m-	108-45-2	3.7E+02	n	3.7E+03	n					9.4E+01	n		2.5E-02	
4.7E-02	H									1	0.1		Phenylenediamine, o-	95-54-5	1.0E+01	c	3.7E+01	c					1.4E+00	c		3.8E-04	
				1.9E-01	H					1	0.1		Phenylenediamine, p-	106-50-3	1.2E+04	n	1.2E+05	nm					3.0E+03	n		7.9E-01	
1.9E-03	H									1	0.1		Phenylphenol, 2-	90-43-7	2.5E+02	c	8.9E+02	c					2.6E+01	c		3.5E-01	
				2.0E-04	H					1	0.1		Phorate	298-02-2	1.2E+01	n	1.2E+02	n					2.3E+00	n		2.6E-03	
						3.0E-04	I	V		1		1.6E+03	Phosgene	75-44-5	3.3E-01	n	1.4E+00	n	3.1E-01	n	1.3E+00	n					
				2.0E-02	I					1	0.1		Phosmet	732-11-6	1.2E+03	n	1.2E+04	n					2.9E+02	n		6.4E-02	
													Phosphates, Inorganic														
				4.9E+01	P					1			~Aluminum metaphosphate	13776-88-0	3.8E+06	nm	5.0E+07	nm					7.6E+05	n			
				4.9E+01	P					1			~Ammonium polyphosphate	68333-79-9	3.8E+06	nm	5.0E+07	nm					7.6E+05	n			
				4.9E+01	P					1			~Calcium pyrophosphate	7790-76-3	3.8E+06	nm	5.0E+07	nm					7.6E+05	n			
				4.9E+01	P					1			~Diammonium phosphate	7783-28-0	3.8E+06	nm	5.0E+07	nm					7.6E+05	n			
				4.9E+01	P					1			~Dicalcium phosphate	7757-93-9	3.8E+06	nm	5.0E+07	nm					7.6E+05	n			
				4.9E+01	P					1			~Dimagnesium phosphate	7782-75-4	3.8E+06	nm	5.0E+07	nm					7.6E+05	n			
				4.9E+01	P					1			~Dipotassium phosphate	7758-11-4	3.8E+06	nm	5.0E+07	nm					7.6E+05	n			
				4.9E+01	P					1			~Disodium phosphate	7558-79-4	3.8E+06	nm	5.0E+07	nm					7.6E+05	n			
				4.9E+01	P					1			~Monoaluminum phosphate	13530-50-2	3.8E+06	nm	5.0E+07	nm					7.6E+05	n			
				4.9E+01	P					1			~Monoammonium phosphate	7722-76-1	3.8E+06	nm	5.0E+07	nm					7.6E+05	n			
				4.9E+01	P					1			~Monocalcium phosphate	7758-23-8	3.8E+06	nm	5.0E+07	nm					7.6E+05	n			
				4.9E+01	P					1			~Monomagnesium phosphate	7757-86-0	3.8E+06	nm	5.0E+07	nm					7.6E+05	n			
				4.9E+01	P					1			~Monopotassium phosphate	7778-77-0	3.8E+06	nm	5.0E+07	nm					7.6E+05	n			
				4.9E+01	P					1			~Monosodium phosphate	7558-80-7	3.8E+06	nm	5.0E+07	nm					7.6E+05	n			
				4.9E+01	P					1			~Polyphosphoric acid	8017-16-1	3.8E+06	nm	5.0E+07	nm					7.6E+05	n			
				4.9E+01	P					1			~Potassium tripolyphosphate	13845-36-8	3.8E+06	nm	5.0E+07	nm					7.6E+05	n			
				4.9E+01	P					1			~Sodium acid pyrophosphate	7758-16-9	3.8E+06	nm	5.0E+07	nm					7.6E+05	n			
				4.9E+01	P					1			~Sodium aluminum phosphate (acidic)	7785-88-8	3.8E+06	nm	5.0E+07	nm					7.6E+05	n			
				4.9E+01	P					1			~Sodium aluminum phosphate (anhydrous)	10279-59-1	3.8E+06	nm	5.0E+07	nm					7.6E+05	n			
				4.9E+01	P					1			~Sodium aluminum phosphate (tetrahydrate)	10305-76-7	3.8E+06	nm	5.0E+07	nm					7.6E+05	n			
				4.9E+01	P					1			~Sodium hexametaphosphate	10124-56-8	3.8E+06	nm	5.0E+07	nm					7.6E+05	n			
				4.9E+01	P					1			~Sodium polyphosphate	68915-31-1	3.8E+06	nm	5.0E+07	nm					7.6E+05	n			
				4.9E+01	P					1			~Sodium trimetaphosphate	7785-84-4	3.8E+06	nm	5.0E+07	nm					7.6E+05	n			
				4.9E+01	P					1			~Sodium tripolyphosphate	7758-29-4	3.8E+06	nm	5.0E+07	nm					7.6E+05	n			
				4.9E+01	P					1			~Tetrapotassium phosphate	7320-34-5	3.8E+06	nm	5.0E+07	nm					7.6E+05	n			
				4.9E+01	P					1			~Tetrasodium pyrophosphate	7722-88-5	3.8E+06	nm	5.0E+07	nm					7.6E+05	n			
				4.9E+01	P					1			~Trialuminum sodium tetra decahydrogenoctaorthophosphate (dihydrate)	15136-87-5	3.8E+06	nm	5.0E+07	nm					7.6E+05	n			
				4.9E+01	P					1			~Tricalcium phosphate	7758-87-4	3.8E+06	nm	5.0E+07	nm					7.6E+05	n			
				4.9E+01	P					1			~Trimagnesium phosphate	7757-87-1	3.8E+06	nm	5.0E+07	nm					7.6E+05	n			
				4.9E+01	P					1			~Tripotassium phosphate	7778-53-2	3.8E+06	nm	5.0E+07	nm					7.6E+05	n			
				4.9E+01	P					1			~Trisodium phosphate	7601-54-9	3.8E+06	nm	5.0E+07	nm					7.6E+05	n			
				3.0E-04	I	3.0E-04	I			1			Phosphine	7803-51-2	2.3E+01	n	3.1E+02	n	3.1E-01	n	1.3E+00	n	4.7E+00	n			
				4.9E+01	P	1.0E-02	I			1			Phosphoric Acid	7664-38-2	3.0E+06	nm	2.7E+07	nm	1.0E+01	n	4.4E+01	n	7.6E+05	n			
				2.0E-05	I					1			Phosphorus, White	7723-14-0	1.6E+00	n	2.0E+01	n					3.1E-01	n		1.1E-03	
				1.0E+00	H					1	0.1		Phthalic Acid, P-	100-21-0	6.1E+04	n	6.2E+05	nm					1.5E+04	n		5.3E+00	
				2.0E+00	I	2.0E-02	C			1	0.1		Phthalic Anhydride	85-44-9	1.2E+05	nm	1.2E+06	nm	2.1E+01	n	8.8E+01	n	3.0E+04	n		6.6E+00	
				7.0E-02	I					1	0.1		Picloram	1918-02-1	4.3E+03	n	4.3E+04	n					1.1E+03	n	5.0E+02	2.9E-01	1.4E-01
				1.0E-04	X					1	0.1		Picramic Acid (2-Amino-4,6-dinitrophenol)	96-91-3	6.1E+00	n	6.2E+01	n					1.5E+00	n		1.0E-03	
				1.0E-02	I					1	0.1		Pirimiphos, Methyl	29232-93-7	6.1E+02	n	6.2E+03	n					9.1E+01	n		8.7E-02	
3.0E+01	C	8.6E-03	C	7.0E-06	H					1	0.1		Polybrominated Biphenyls	59536-65-1	1.6E-02	c*	5.7E-02	c*	2.8E-04	c	1.4E-03	c	2.2E-03	c*			
													Polychlorinated Biphenyls (PCBs)														
7.0E-02	S	2.0E-05	S	7.0E-05	I					1	0.14		~Aroclor 1016	12674-11-2	3.9E+00	n	2.1E+01	c**	1.2E-01	c	6.1E-01	c	9.6E-01	c**		9.2E-02	
2.0E+00	S	5.7E-04	S					V		1	0.14	7.6E+02	~Aroclor 1221	11104-28-2	1.4E-01	c	5.4E-01	c	4.3E-03	c	2.1E-02	c	4.3E-03	c		7.4E-05	
2.0E+00	S	5.7E-04	S					V		1	0.14	7.3E+01	~Aroclor 1232	11141-16-5	1.4E-01	c	5.4E-01	c	4.3E-03	c	2.1E-02	c	4.3E-03	c		7.4E-05	
2.0E+00	S	5.7E-04	S							1	0.14		~Aroclor 1242	53469-21-9	2.2E-01	c	7.4E-01	c	4.3E-03	c	2.1E-02	c	3.4E-02	c		5.3E-03	
2.0E+00	S	5.7E-04	S							1	0.14		~Aroclor 1248	12672-29-6	2.2E-01	c	7.4E-01	c	4.3E-03	c	2.1E-02	c	3.4E-02	c		5.2E-03	
2.0E+00	S	5.7E-04	S	2.0E-05	I					1	0.14		~Aroclor 1254	11097-69-1	2.2E-01	c**	7.4E-01	c*	4.3E-03	c	2.1E-02	c	3.4E-02	c**		8.8E-03	
2.0E+00	S	5.7E-04	S							1	0.14		~Aroclor 1260	11096-82-5	2.2E-01	c	7.4E-01	c	4.3E-03	c	2.1E-02	c	3.4E-02	c		2.4E-02	
3.9E+00	E	1.1E-03	E	3.3E-05	E	1.3E-03	E			1	0.14		~Heptachlorobiphenyl, 2,3,3',4,4',5,5'- (PCB 189)	39635-31-9	1.1E-01	c*	3.8E-01	c*	2.1E-03	c	1.1E-02	c	1.7E-02	c*		1.2E-02	
3.9E+00	E	1.1E-03	E	3.3E-05	E	1.3E-03	E			1	0.14		~Hexachlorobiphenyl, 2,3',4,4',5,5'- (PCB 167)	52663-72-6	1.1E-01	c*	3.8E-01	c*	2.1E-03	c	1.1E-02	c	1.7E-02	c*		7.2E-03	
3.9E+00	E	1.1E-03	E	3.3E-05	E	1.3E-03	E			1	0.14		~Hexachlorobiphenyl, 2,3,3',4,4',5'- (PCB 157)	69782-90-7	1.1E-01	c*	3.8E-01	c*	2.1E-03	c	1.1E-02	c	1.7E-02	c*		7.4E-03	
3.9E+00	E	1.1E-03	E	3.3E-05	E	1.3E-03	E			1	0.14		~Hexachlorobiphenyl, 2,3,3',4,4',5- (PCB 156)	38380-08-4	1.1E-01	c*	3.8E-01	c*	2.1E-03	c	1.1E-02	c	1.7E-02	c*		7.4E-03	
3.9E+03	E	1.1E+00	E	3.3E-08	E	1.3E-06	E			1	0.14		~Hexachlorobiphenyl, 3,3',4,4',5,5'- (PCB 169)	32774-16-6	1.1E-04	c*	3.8E-04	c*	2.1E-06	c	1.1E-05	c	1.7E-05	c*		7.2E-06	
3.9E+00	E	1.1E-03	E	3.3E-05	E	1.3E-03	E			1	0.14		~Pentachlorobiphenyl, 2',3,4,4',5- (PCB 123)	65510-44-3	1.1E-01	c*	3.8E-01	c*	2.1E-03	c	1.1E-02	c	1.7E-02	c*		4.5E-03	

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Toxicity and Chemical-specific Information													Contaminant		Screening Levels												Protection of Ground	
SFO (mg/kg-day)$^{-1}$	key	IUR (ug/m^3)$^{-1}$	key	RfD_o (mg/kg-day)	key	RfC_i (mg/m^3)	key	voc	muta-gen	GIABS	ABS	C_{sat} (mg/kg)	Analyte	CAS No.	Resident Soil (mg/kg)	key	Industrial Soil (mg/kg)	key	Resident 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)
3.9E+00	E	1.1E-03	E	3.3E-05	E	1.3E-03	E			1	0.14		~Pentachlorobiphenyl, 2,3',4,4',5- (PCB 118)	31508-00-6	1.1E-01	c*	3.8E-01	c*	2.1E-03	c	1.1E-02	c	1.7E-02	c*		4.4E-03	
3.9E+00	E	1.1E-03	E	3.3E-05	E	1.3E-03	E			1	0.14		~Pentachlorobiphenyl, 2,3,3',4,4'- (PCB 105)	32598-14-4	1.1E-01	c*	3.8E-01	c*	2.1E-03	c	1.1E-02	c	1.7E-02	c*		4.5E-03	
3.9E+00	E	1.1E-03	E	3.3E-05	E	1.3E-03	E			1	0.14		~Pentachlorobiphenyl, 2,3,4,4',5- (PCB 114)	74472-37-0	1.1E-01	c*	3.8E-01	c*	2.1E-03	c	1.1E-02	c	1.7E-02	c*		4.5E-03	
1.3E+04	E	3.8E+00	E	1.0E-08	E	4.0E-07	E			1	0.14		~Pentachlorobiphenyl, 3,3',4,4',5- (PCB 126)	57465-28-8	3.4E-05	c*	1.1E-04	c*	6.4E-07	c	3.2E-06	c	5.2E-06	c*		1.3E-06	
2.0E+00	I	5.7E-04	I							1	0.14		~Polychlorinated Biphenyls (high risk)	1336-36-3	2.2E-01	c	7.4E-01	c	4.3E-03	c	2.1E-02	c					
4.0E-01	I	1.0E-04	I							1	0.14		~Polychlorinated Biphenyls (low risk)	1336-36-3					2.4E-02	c	1.2E-01	c	1.7E-01	c	5.0E-01	2.6E-02	7.8E-02
7.0E-02	I	2.0E-05	I							1	0.14		~Polychlorinated Biphenyls (lowest risk)	1336-36-3					1.2E-01	c	6.1E-01	c					
1.3E+01	E	3.8E-03	E	1.0E-05	E	4.0E-04	E			1	0.14		~Tetrachlorobiphenyl, 3,3',4,4'- (PCB 77)	32598-13-3	3.4E-02	c*	1.1E-01	c*	6.4E-04	c	3.2E-03	c	5.2E-03	c*		8.1E-04	
3.9E+01	E	1.1E-02	E	3.3E-06	E	1.3E-04	E			1	0.14		~Tetrachlorobiphenyl, 3,4,4',5- (PCB 81)	70362-50-4	1.1E-02	c*	3.8E-02	c*	2.1E-04	c	1.1E-03	c	1.7E-03	c*		2.7E-04	
						6.0E-04	I			1	0.1		Polymeric Methylene Diphenyl Diisocyanate (PMDI)	9016-87-9	8.5E+05	nm	3.6E+06	nm	6.3E-01	n	2.6E+00	n					
													Polynuclear Aromatic Hydrocarbons (PAHs)															
				6.0E-02	I			V		1	0.13		~Acenaphthene	83-32-9	3.4E+03	n	3.3E+04	n					4.0E+02	n		4.1E+00	
				3.0E-01	I			V		1	0.13		~Anthracene	120-12-7	1.7E+04	n	1.7E+05	nm					1.3E+03	n		4.2E+01	
7.3E-01	E	1.1E-04	C						M	1	0.13		~Benz[a]anthracene	56-55-3	1.5E-01	c	2.1E+00	c	8.7E-03	c	1.1E-01	c	2.9E-02	c		1.0E-02	
1.2E+00	C	1.1E-04	C							1	0.13		~Benzo(j)fluoranthene	205-82-3	3.8E-01	c	1.3E+00	c	2.2E-02	c	1.1E-01	c	5.6E-02	c		6.7E-02	
7.3E+00	I	1.1E-03	C						M	1	0.13		~Benzo[a]pyrene	50-32-8	1.5E-02	c	2.1E-01	c	8.7E-04	c	1.1E-02	c	2.9E-03	c	2.0E-01	3.5E-03	2.4E-01
7.3E-01	E	1.1E-04	C						M	1	0.13		~Benzo[b]fluoranthene	205-99-2	1.5E-01	c	2.1E+00	c	8.7E-03	c	1.1E-01	c	2.9E-02	c		3.5E-02	
7.3E-02	E	1.1E-04	C						M	1	0.13		~Benzo[k]fluoranthene	207-08-9	1.5E+00	c	2.1E+01	c	8.7E-03	c	1.1E-01	c	2.9E-01	c		3.5E-01	
7.3E-03	E	1.1E-05	C						M	1	0.13		~Chrysene	218-01-9	1.5E+01	c	2.1E+02	c	8.7E-02	c	1.1E+00	c	2.9E+00	c		1.1E+00	
7.3E+00	E	1.2E-03	C						M	1	0.13		~Dibenz[a,h]anthracene	53-70-3	1.5E-02	c	2.1E-01	c	8.0E-04	c	1.0E-02	c	2.9E-03	c		1.1E-02	
1.2E+01	C	1.1E-03	C							1	0.13		~Dibenzo(a,e)pyrene	192-65-4	3.8E-02	c	1.3E-01	c	2.2E-03	c	1.1E-02	c	5.6E-03	c		7.3E-02	
2.5E+02	C	7.1E-02	C						M	1	0.13		~Dimethylbenz(a)anthracene, 7,12-	57-97-6	4.3E-04	c	6.2E-03	c	1.4E-05	c	1.7E-04	c	8.6E-05	c		8.5E-05	
				4.0E-02	I					1	0.13		~Fluoranthene	206-44-0	2.3E+03	n	2.2E+04	n					6.3E+02	n		7.0E+01	
				4.0E-02	I			V		1	0.13		~Fluorene	86-73-7	2.3E+03	n	2.2E+04	n					2.2E+02	n		4.0E+00	
7.3E-01	E	1.1E-04	C						M	1	0.13		~Indeno[1,2,3-cd]pyrene	193-39-5	1.5E-01	c	2.1E+00	c	8.7E-03	c	1.1E-01	c	2.9E-02	c		1.2E-01	
2.9E-02	P			7.0E-02	A			V		1		3.9E+02	~Methylnaphthalene, 1-	90-12-0	2.2E+01	c	9.9E+01	c					9.7E-01	c		5.1E-03	
				4.0E-03	I			V		1		3.7E+02	~Methylnaphthalene, 2-	91-57-6	3.1E+02	n	4.1E+03	ns					2.7E+01	n		1.4E-01	
		3.4E-05	C	2.0E-02	I	3.0E-03	I	V		1	0.13		~Naphthalene	91-20-3	3.6E+00	c*	1.8E+01	c*	7.2E-02	c*	3.6E-01	c*	1.4E-01	c*		4.7E-04	
1.2E+00	C	1.1E-04	C							1	0.13		~Nitropyrene, 4-	57835-92-4	3.8E-01	c	1.3E+00	c	2.2E-02	c	1.1E-01	c	1.6E-02	c		2.8E-03	
				3.0E-02	I			V		1	0.13		~Pyrene	129-00-0	1.7E+03	n	1.7E+04	n					8.7E+01	n		9.5E+00	
1.5E-01	I			9.0E-03	I					1	0.1		Prochloraz	67747-09-5	3.2E+00	c	1.1E+01	c					3.2E-01	c		1.6E-03	
				6.0E-03	H					1	0.1		Profluralin	26399-36-0	3.7E+02	n	3.7E+03	n					1.9E+01	n		1.2E+00	
				1.5E-02	I					1	0.1		Prometon	1610-18-0	9.2E+02	n	9.2E+03	n					1.9E+02	n		9.2E-02	
				4.0E-03	I					1	0.1		Prometryn	7287-19-6	2.4E+02	n	2.5E+03	n					4.5E+01	n		6.9E-02	
				1.3E-02	I					1	0.1		Propachlor	1918-16-7	7.9E+02	n	8.0E+03	n					1.9E+02	n		1.2E-01	
				5.0E-03	I					1	0.1		Propanil	709-98-8	3.1E+02	n	3.1E+03	n					6.3E+01	n		3.5E-02	
				2.0E-02	I					1	0.1		Propargite	2312-35-8	1.2E+03	n	1.2E+04	n					1.2E+02	n		8.8E+00	
				2.0E-03	I					1	0.1		Propargyl Alcohol	107-19-7	1.2E+02	n	1.2E+03	n					3.1E+01	n		6.4E-03	
				2.0E-02	I					1	0.1		Propazine	139-40-2	1.2E+03	n	1.2E+04	n					2.6E+02	n		2.3E-01	
				2.0E-02	I					1	0.1		Propham	122-42-9	1.2E+03	n	1.2E+04	n					2.7E+02	n		1.7E-01	
				1.3E-02	I					1	0.1		Propiconazole	60207-90-1	7.9E+02	n	8.0E+03	n					1.6E+02	n		5.3E-01	
						8.0E-03	I	V		1		3.3E+04	Propionaldehyde	123-38-6	8.0E+01	n	3.4E+02	n	8.3E+00	n	3.5E+01	n	1.7E+01	n		3.4E-03	
				1.0E-01	X	1.0E+00	X	V		1	0.1	2.6E+02	Propyl benzene	103-65-1	3.4E+03	ns	2.1E+04	ns	1.0E+03	n	4.4E+03	n	5.3E+02	n		9.9E-01	
						3.0E+00	C			1	0.1		Propylene	115-07-1	4.3E+09	nm	1.8E+10	nm	3.1E+03	n	1.3E+04	n					
				2.0E+01	P					1	0.1		Propylene Glycol	57-55-6	1.2E+06	nm	1.2E+07	nm					3.1E+05	n		6.3E+01	
						2.7E-04	A	V		1		1.5E+03	Propylene Glycol Dinitrate	6423-43-4	5.7E+01	n	2.4E+02	n	2.8E-01	n	1.2E+00	n	5.7E-01	n		1.8E-04	
				7.0E-01	H					1	0.1		Propylene Glycol Monoethyl Ether	1569-02-4	4.3E+04	n	4.3E+05	nm					1.1E+04	n		2.2E+00	
				7.0E-01	H	2.0E+00	I			1	0.1		Propylene Glycol Monomethyl Ether	107-98-2	4.3E+04	n	4.3E+05	nm	2.1E+03	n	8.8E+03	n	1.1E+04	n		2.2E+00	
2.4E-01	I	3.7E-06	I			3.0E-02	I	V		1		7.8E+04	Propylene Oxide	75-56-9	2.0E+00	c	9.0E+00	c	6.6E-01	c*	3.3E+00	c*	2.3E-01	c		4.8E-05	
				2.5E-01	I					1	0.1		Pursuit	81335-77-5	1.5E+04	n	1.5E+05	nm					3.9E+03	n		3.4E+00	
				2.5E-02	I					1	0.1		Pydrin	51630-58-1	1.5E+03	n	1.5E+04	n					3.9E+02	n		2.5E+02	
				1.0E-03	I			V		1		5.3E+05	Pyridine	110-86-1	7.8E+01	n	1.0E+03	n					1.5E+01	n		5.3E-03	
				5.0E-04	I					1	0.1		Quinalphos	13593-03-8	3.1E+01	n	3.1E+02	n					3.8E+00	n		3.2E-02	
3.0E+00	I									1	0.1		Quinoline	91-22-5	1.6E-01	c	5.7E-01	c					2.1E-02	c		6.8E-05	
						3.0E-02	A			1			Refractory Ceramic Fibers	NA	4.3E+07	nm	1.8E+08	nm	3.1E+01	n	1.3E+02	n					
				3.0E-02	I					1	0.1		Resmethrin	10453-86-8	1.8E+03	n	1.8E+04	n					4.8E+01	n		3.0E+01	
				5.0E-02	H					1	0.1		Ronnel	299-84-3	3.1E+03	n	3.1E+04	n					3.0E+02	n		2.7E+00	
				4.0E-03	I					1	0.1		Rotenone	83-79-4	2.4E+02	n	2.5E+03	n					4.7E+01	n		2.4E+01	
2.2E-01	C	6.3E-05	C						M	1	0.1		Safrole	94-59-7	5.2E-01	c	7.8E+00	c	1.5E-02	c	1.9E-01	c	6.2E-02	c		3.8E-05	
				2.5E-02	I					1	0.1		Savey	78587-05-0	1.5E+03	n	1.5E+04	n					8.1E+01	n		3.6E-01	
				5.0E-03	I					1			Selenious Acid	7783-00-8	3.9E+02	n	5.1E+03	n					7.8E+01	n			
				5.0E-03	I	2.0E-02	C			1			Selenium	7782-49-2	3.9E+02	n	5.1E+03	n	2.1E+01	n	8.8E+01	n	7.8E+01	n	5.0E+01	4.0E-01	2.6E-01
				5.0E-03	C	2.0E-02	C			1			Selenium Sulfide	7446-34-6	3.9E+02	n	5.1E+03	n	2.1E+01	n	8.8E+01	n	7.8E+01	n			
				9.0E-02	I					1	0.1		Sethoxydim	74051-80-2	5.5E+03	n	5.5E+04	n					7.8E+02	n		6.9E+00	
						3.0E-03	C			1			Silica (crystalline, respirable)	7631-86-9	4.3E+06	nm	1.8E+07	nm	3.1E+00	n	1.3E+01	n					

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SFO (mg/kg-day)$^{-1}$	key	IUR (ug/m^3)$^{-1}$	key	RfD_o (mg/kg-day)	key	RfC_i (mg/m^3)	key	vol	muta-gen	GIABS	ABS	C_{sat} (mg/kg)	Analyte	CAS No.	Resident Soil (mg/kg)	key	Industrial Soil (mg/kg)	key	Resident 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)
				5.0E-03	I					0.04			Silver	7440-22-4	3.9E+02	n	5.1E+03	n					7.1E+01	n		6.0E-01	
1.2E-01	H			5.0E-03	I					1	0.1		Simazine	122-34-9	4.1E+00	c*	1.4E+01	c					5.2E-01	c	4.0E+00	2.6E-04	2.0E-03
				1.3E-02	I					1	0.1		Sodium Acifluorfen	62476-59-9	7.9E+02	n	8.0E+03	n					2.0E+02	n		1.6E+00	
				4.0E-03	I					1			Sodium Azide	26628-22-8	3.1E+02	n	4.1E+03	n					6.2E+01	n			
2.7E-01	H			3.0E-02	I					1	0.1		Sodium Diethyldithiocarbamate	148-18-5	1.8E+00	c	6.4E+00	c					2.5E-01	c			
				5.0E-02	A	1.3E-02	C			1			Sodium Fluoride	7681-49-4	3.9E+03	n	5.1E+04	n	1.4E+01	n	5.7E+01	n	7.8E+02	n			
				2.0E-05	I					1	0.1		Sodium Fluoroacetate	62-74-8	1.2E+00	n	1.2E+01	n					3.1E-01	n		6.3E-05	
				1.0E-03	H					1			Sodium Metavanadate	13718-26-8	7.8E+01	n	1.0E+03	n					1.6E+01	n			
2.4E-02	H			3.0E-02	I					1	0.1		Stirofos (Tetrachlorovinphos)	961-11-5	2.0E+01	c*	7.2E+01	c					2.4E+00	c		7.0E-03	
				6.0E-01	I					1			Strontium, Stable	7440-24-6	4.7E+04	n	6.1E+05	nm					9.3E+03	n		3.3E+02	
				3.0E-04	I					1	0.1		Strychnine	57-24-9	1.8E+01	n	1.8E+02	n					4.6E+00	n		5.1E-02	
				2.0E-01	I	1.0E+00	I	V		1		8.7E+02	Styrene	100-42-5	6.3E+03	ns	3.6E+04	ns	1.0E+03	n	4.4E+03	n	1.1E+03	n	1.0E+02	1.2E+00	1.1E-01
				8.0E-04	P					1	0.1		Sulfonylbis(4-chlorobenzene), 1,1'-	80-07-9	4.9E+01	n	4.9E+02	n					1.3E+01	n		7.4E-02	
						1.0E-03	C			1			Sulfuric Acid	7664-93-9	1.4E+06	nm	6.0E+06	nm	1.0E+00	n	4.4E+00	n					
				2.5E-02	I					1	0.1		Systhane	88671-89-0	1.5E+03	n	1.5E+04	n					3.5E+02	n		4.3E+00	
				3.0E-02	H					1	0.1		TCMTB	21564-17-0	1.8E+03	n	1.8E+04	n					3.7E+02	n		2.6E+00	
				7.0E-02	I					1	0.1		Tebuthiuron	34014-18-1	4.3E+03	n	4.3E+04	n					1.1E+03	n		3.0E-01	
				2.0E-02	H					1	0.1		Temephos	3383-96-8	1.2E+03	n	1.2E+04	n					3.1E+02	n		6.0E+01	
				1.3E-02	I					1	0.1		Terbacil	5902-51-2	7.9E+02	n	8.0E+03	n					2.0E+02	n		5.9E-02	
				2.5E-05	H					1	0.1		Terbufos	13071-79-9	1.5E+00	n	1.5E+01	n					1.8E-01	n		3.9E-04	
				1.0E-03	I					1	0.1		Terbutryn	886-50-0	6.1E+01	n	6.2E+02	n					1.0E+01	n		1.4E-02	
				1.0E-04	I					1	0.1		Tetrabromodiphenyl ether, 2,2',4,4'- (BDE-47)	5436-43-1	6.1E+00	n	6.2E+01	n					1.6E+00	n		4.2E-02	
				3.0E-04	I					1	0.1		Tetrachlorobenzene, 1,2,4,5-	95-94-3	1.8E+01	n	1.8E+02	n					1.2E+00	n		5.8E-03	
2.6E-02	I	7.4E-06	I	3.0E-02	I			V		1		6.8E+02	Tetrachloroethane, 1,1,1,2-	630-20-6	1.9E+00	c	9.3E+00	c	3.3E-01	c	1.7E+00	c	5.0E-01	c		1.9E-04	
2.0E-01	I	5.8E-05	C	2.0E-02	I			V		1		1.9E+03	Tetrachloroethane, 1,1,2,2-	79-34-5	5.6E-01	c	2.8E+00	c	4.2E-02	c	2.1E-01	c	6.6E-02	c		2.6E-05	
5.4E-01	C	5.9E-06	C	1.0E-02	I	2.7E-01	A	V		1		1.7E+02	Tetrachloroethylene	127-18-4	5.5E-01	c	2.6E+00	c	4.1E-01	c	2.1E+00	c	7.2E-02	c	5.0E+00	3.3E-05	2.3E-03
				3.0E-02	I					1	0.1		Tetrachlorophenol, 2,3,4,6-	58-90-2	1.8E+03	n	1.8E+04	n					1.7E+02	n		1.1E+00	
2.0E+01	H									1	0.1		Tetrachlorotoluene, p- alpha, alpha, alpha-	5216-25-1	2.4E-02	c	8.6E-02	c					3.4E-03	c		1.1E-05	
				5.0E-04	I					1	0.1		Tetraethyl Dithiopyrophosphate	3689-24-5	3.1E+01	n	3.1E+02	n					5.3E+00	n		3.9E-03	
						8.0E+01	I	V		1		1.1E+03	Tetrafluoroethane, 1,1,1,2-	811-97-2	1.1E+05	nms	4.6E+05	nms	8.3E+04	n	3.5E+05	n	1.7E+05	n		9.3E+01	
				4.0E-03	P					1	0.1		Tetryl (Trinitrophenylmethylnitramine)	479-45-8	2.4E+02	n	2.5E+03	n					6.3E+01	n		5.9E-01	
				1.0E-05	X					1			Thallium (Soluble Salts)	7440-28-0	7.8E-01	n	1.0E+01	n					1.6E-01	n	2.0E+00	1.1E-02	1.4E-01
				1.0E-02	I					1	0.1		Thiobencarb	28249-77-6	6.1E+02	n	6.2E+03	n					1.2E+02	n		4.2E-01	
				7.0E-02	X					1	0.008		Thiodiglycol	111-48-8	5.4E+03	n	6.8E+04	n					1.1E+03	n		2.2E-01	
				3.0E-04	H					1	0.1		Thiofanox	39196-18-4	1.8E+01	n	1.8E+02	n					4.1E+00	n		1.4E-03	
				8.0E-02	I					1	0.1		Thiophanate, Methyl	23564-05-8	4.9E+03	n	4.9E+04	n					1.2E+03	n		1.1E+00	
				5.0E-03	I					1	0.1		Thiram	137-26-8	3.1E+02	n	3.1E+03	n					7.6E+01	n		1.1E-01	
				6.0E-01	H					1			Tin	7440-31-5	4.7E+04	n	6.1E+05	nm					9.3E+03	n		2.3E+03	
						1.0E-04	A			1			Titanium Tetrachloride	7550-45-0	1.4E+05	nm	6.0E+05	nm	1.0E-01	n	4.4E-01	n					
				8.0E-02	I	5.0E+00	I	V		1		8.2E+02	Toluene	108-88-3	5.0E+03	ns	4.5E+04	ns	5.2E+03	n	2.2E+04	n	8.6E+02	n	1.0E+03	5.9E-01	6.9E-01
1.8E-01	X			1.0E-04	X					1	0.1		Toluene-2,5-diamine	95-70-5	2.7E+00	c**	9.6E+00	c**					3.7E-01	c**		1.2E-04	
1.9E-01	H									1	0.1		Toluidine, p-	106-49-0	2.6E+00	c	9.1E+00	c					3.4E-01	c		1.4E-04	
1.1E+00	I	3.2E-04	I							1	0.1		Toxaphene	8001-35-2	4.4E-01	c	1.6E+00	c	7.6E-03	c	3.8E-02	c	1.3E-02	c	3.0E+00	2.1E-03	4.6E-01
				7.5E-03	I					1	0.1		Tralomethrin	66841-25-6	4.6E+02	n	4.6E+03	n					1.2E+02	n		4.5E+01	
				3.0E-04	A					1	0.1		Tri-n-butyltin	688-73-3	1.8E+01	n	1.8E+02	n					4.7E+00	n		1.0E-01	
				1.3E-02	I					1	0.1		Triallate	2303-17-5	7.9E+02	n	8.0E+03	n					8.7E+01	n		1.9E-01	
				1.0E-02	I					1	0.1		Triasulfuron	82097-50-5	6.1E+02	n	6.2E+03	n					1.6E+02	n		1.6E-01	
				5.0E-03	I					1	0.1		Tribromobenzene, 1,2,4-	615-54-3	3.1E+02	n	3.1E+03	n					7.8E+01	n		1.1E-01	
9.0E-03	P			1.0E-02	P					1	0.1		Tributyl Phosphate	126-73-8	5.4E+01	c*	1.9E+02	c*					4.5E+00	c*		2.2E-02	
				3.0E-04	P					1	0.1		Tributyltin Compounds	NA	1.8E+01	n	1.8E+02	n					4.7E+00	n			
				3.0E-04	I					1	0.1		Tributyltin Oxide	56-35-9	1.8E+01	n	1.8E+02	n					4.4E+00	n		2.3E+02	
				3.0E+01	I	3.0E+01	H	V		1		9.1E+02	Trichloro-1,2,2-trifluoroethane, 1,1,2-	76-13-1	4.3E+04	ns	1.8E+05	nms	3.1E+04	n	1.3E+05	n	5.3E+04	n		1.3E+02	
7.0E-02	I			2.0E-02	I					1	0.1		Trichloroacetic Acid	76-03-9	6.9E+00	c	2.5E+01	c					9.4E-01	c	6.0E+01	1.9E-04	1.2E-02
2.9E-02	H									1	0.1		Trichloroaniline HCl, 2,4,6-	33663-50-2	1.7E+01	c	5.9E+01	c					2.3E+00	c		6.4E-03	
7.0E-03	X			3.0E-05	X					1	0.1		Trichloroaniline, 2,4,6-	634-93-5	1.8E+00	n	1.8E+01	n					3.0E-01	n		2.7E-03	
				8.0E-04	X			V		1	0.1	1.5E+02	Trichlorobenzene, 1,2,3-	87-61-6	4.9E+01	n	4.9E+02	ns					5.2E+00	n		1.5E-02	
2.9E-02	P			1.0E-02	I	2.0E-03	P	V		1		4.0E+02	Trichlorobenzene, 1,2,4-	120-82-1	2.2E+01	c**	9.9E+01	c**	2.1E+00	n	8.8E+00	n	9.9E-01	c**	7.0E+01	2.9E-03	2.0E-01
				2.0E+00	I	5.0E+00	I	V		1		6.4E+02	Trichloroethane, 1,1,1-	71-55-6	8.7E+03	ns	3.8E+04	ns	5.2E+03	n	2.2E+04	n	7.5E+03	n	2.0E+02	2.6E+00	7.0E-02
5.7E-02	I	1.6E-05	I	4.0E-03	I	2.0E-04	X	V		1		2.2E+03	Trichloroethane, 1,1,2-	79-00-5	1.1E+00	c**	5.3E+00	c**	1.5E-01	c**	7.7E-01	c**	2.4E-01	c**	5.0E+00	7.7E-05	1.6E-03
4.6E-02	I	4.1E-06	I	5.0E-04	I	2.0E-03	I	V	M	1		6.9E+02	Trichloroethylene	79-01-6	9.1E-01	c**	6.4E+00	c**	4.3E-01	c**	3.0E+00	c**	4.4E-01	c**	5.0E+00	1.6E-04	1.8E-03
				3.0E-01	I	7.0E-01	H	V		1		1.2E+03	Trichlorofluoromethane	75-69-4	7.9E+02	n	3.4E+03	ns	7.3E+02	n	3.1E+03	n	1.1E+03	n		6.9E-01	
				1.0E-01	I					1	0.1		Trichlorophenol, 2,4,5-	95-95-4	6.1E+03	n	6.2E+04	n					8.9E+02	n		3.3E+00	
1.1E-02	I	3.1E-06	I	1.0E-03	P					1	0.1		Trichlorophenol, 2,4,6-	88-06-2	4.4E+01	c**	1.6E+02	c**	7.8E-01	c	4.0E+00	c	3.5E+00	c**		1.3E-02	
				1.0E-02	I					1	0.1		Trichlorophenoxyacetic Acid, 2,4,5-	93-76-5	6.1E+02	n	6.2E+03	n					1.2E+02	n		5.2E-02	
				8.0E-03	I					1	0.1		Trichlorophenoxypropionic acid, -2,4,5	93-72-1	4.9E+02	n	4.9E+03	n					8.4E+01	n	5.0E+01	4.6E-02	2.8E-02

Key: I = IRIS; P = PPRTV; A = ATSDR; C = Cal EPA; X = PPRTV Appendix; H = HCAST; J = New Jersey; O = EPA Office of Water; E = Environmental Criteria and Assessment Office; S = see user guide Section 5; L = see user guide on lead; M = mutagen; V = volatile; F = See FAQ; c = cancer; * = where: n SL < 100X c SL; ** = where n SL < 10X c SL; n = noncancer; m = Concentration may exceed ceiling limit (See User Guide); s = Concentration may exceed Csat (See User Guide); SSL values are based on DAF=1

Toxicity and Chemical-specific Information														Contaminant		Screening Levels												Protection of Ground	
SFO (mg/kg-day)$^{-1}$	key	IUR (ug/m^3)$^{-1}$	key	RfD_o (mg/kg-day)	key	RfC_i (mg/m^3)	key	vo c	muta-gen	GIABS	ABS	C_{sat} (mg/kg)	Analyte	CAS No.	Resident Soil (mg/kg)	key	Industrial Soil (mg/kg)	key	Resident 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)
				5.0E-03	I			V		1		1.3E+03	Trichloropropane, 1,1,2-	598-77-6	3.9E+02	n	5.1E+03	ns					7.8E+01	n		3.1E-02	
3.0E+01	I			4.0E-03	I	3.0E-04	I	V	M	1		1.4E+03	Trichloropropane, 1,2,3-	96-18-4	5.0E-03	c	9.5E-02	c	3.1E-01	n	1.3E+00	n	6.5E-04	c		2.8E-07	
				3.0E-03	X	3.0E-04	P	V		1		4.5E+02	Trichloropropene, 1,2,3-	96-19-5	7.8E-01	n	3.3E+00	n	3.1E-01	n	1.3E+00	n	6.2E-01	n		3.1E-04	
				3.0E-03	I					1	0.1		Tridiphane	58138-08-2	1.8E+02	n	1.8E+03	n					4.7E+01	n		3.3E-01	
						7.0E-03	I	V		1		2.8E+04	Triethylamine	121-44-8	1.2E+02	n	5.2E+02	n	7.3E+00	n	3.1E+01	n	1.5E+01	n		4.4E-03	
* 7.7E-03	I			7.5E-03	I					1	0.1		Trifluralin	1582-09-8	6.3E+01	c**	2.2E+02	c*					2.2E+00	c*		7.2E-02	
2.0E-02	P			1.0E-02	P					1	0.1		Trimethyl Phosphate	512-56-1	2.4E+01	c*	8.6E+01	c*					3.4E+00	c*		7.4E-04	
						5.0E-03	P	V		1		2.9E+02	Trimethylbenzene, 1,2,3-	526-73-8	5.3E+01	n	2.2E+02	n	5.2E+00	n	2.2E+01	n	1.0E+01	n		1.5E-02	
						7.0E-03	P	V		1		2.2E+02	Trimethylbenzene, 1,2,4-	95-63-6	6.2E+01	n	2.6E+02	ns	7.3E+00	n	3.1E+01	n	1.5E+01	n		2.1E-02	
				1.0E-02	X			V		1		1.8E+02	Trimethylbenzene, 1,3,5-	108-67-8	7.8E+02	ns	1.0E+04	ns					8.7E+01	n		1.2E-01	
				3.0E-02	I					1	0.019		Trinitrobenzene, 1,3,5-	99-35-4	2.2E+03	n	2.7E+04	n					4.6E+02	n		1.7E+00	
3.0E-02	I			5.0E-04	I					1	0.032		Trinitrotoluene, 2,4,6-	118-96-7	1.9E+01	c**	7.9E+01	c**					2.2E+00	c**		1.3E-02	
				2.0E-02	P					1	0.1		Triphenylphosphine Oxide	791-28-6	1.2E+03	n	1.2E+04	n					2.8E+02	n		1.2E+00	
2.0E-02	P			7.0E-03	P					1	0.1		Tris(2-chloroethyl)phosphate	115-96-8	2.4E+01	c*	8.6E+01	c*					3.3E+00	c*		3.2E-03	
3.2E-03	P			1.0E-01	P					1	0.1		Tris(2-ethylhexyl)phosphate	78-42-2	1.5E+02	c*	5.4E+02	c					2.1E+01	c*		1.0E+02	
				3.0E-03	I	3.0E-04	A			1			Uranium (Soluble Salts)	NA	2.3E+02	n	3.1E+03	n	3.1E-01	n	1.3E+00	n	4.7E+01	n	3.0E+01	2.1E+01	1.4E+01
1.0E+00	C	2.9E-04	C						M	1	0.1		Urethane	51-79-6	1.2E-01	c	1.7E+00	c	3.3E-03	c	4.2E-02	c	2.1E-02	c		4.8E-06	
		8.3E-03	P	9.0E-03	I	7.0E-06	P			0.026			Vanadium Pentoxide	1314-62-1	4.0E+02	c**	2.0E+03	c**	2.9E-04	c*	1.5E-03	c*	1.1E+02	n			
				5.0E-03	S					1			Vanadium and Compounds	NA	3.9E+02	n	5.2E+03	n					7.8E+01	n		7.8E+01	
				1.0E-03	I					1	0.1		Vernolate	1929-77-7	6.1E+01	n	6.2E+02	n					8.3E+00	n		6.6E-03	
				2.5E-02	I					1	0.1		Vinclozolin	50471-44-8	1.5E+03	n	1.5E+04	n					3.4E+02	n		2.6E-01	
				1.0E+00	H	2.0E-01	I	V		1		2.8E+03	Vinyl Acetate	108-05-4	9.7E+02	n	4.1E+03	ns	2.1E+02	n	8.8E+02	n	4.1E+02	n		8.7E-02	
		3.2E-05	H			3.0E-03	I	V		1		0.0E+00	Vinyl Bromide	593-60-2	1.1E-01	c*s	5.6E-01	c*s	7.6E-02	c*	3.8E-01	c*	1.5E-01	c*		4.4E-05	
7.2E-01	I	4.4E-06	I	3.0E-03	I	1.0E-01	I	V	M	1		3.9E+03	Vinyl Chloride	75-01-4	6.0E-02	c	1.7E+00	c	1.6E-01	c	2.8E+00	c	1.5E-02	c	2.0E+00	5.3E-06	6.9E-04
				3.0E-04	I					1	0.1		Warfarin	81-81-2	1.8E+01	n	1.8E+02	n					4.4E+00	n		4.6E-03	
				2.0E-01	S	1.0E-01	S	V		1		3.9E+02	Xylene, P-	106-42-3	6.0E+02	ns	2.6E+03	ns	1.0E+02	n	4.4E+02	n	1.9E+02	n		1.8E-01	
				2.0E-01	S	1.0E-01	S	V		1		3.9E+02	Xylene, m-	108-38-3	5.9E+02	ns	2.5E+03	ns	1.0E+02	n	4.4E+02	n	1.9E+02	n		1.8E-01	
				2.0E-01	S	1.0E-01	S	V		1		4.3E+02	Xylene, o-	95-47-6	6.9E+02	ns	3.0E+03	ns	1.0E+02	n	4.4E+02	n	1.9E+02	n		1.9E-01	
				2.0E-01	I	1.0E-01	I	V		1		2.6E+02	Xylenes	1330-20-7	6.3E+02	ns	2.7E+03	ns	1.0E+02	n	4.4E+02	n	1.9E+02	n	1.0E+04	1.9E-01	9.8E+00
				3.0E-04	I					1			Zinc Phosphide	1314-84-7	2.3E+01	n	3.1E+02	n					4.7E+00	n			
				3.0E-01	I					1			Zinc and Compounds	7440-66-6	2.3E+04	n	3.1E+05	nm					4.7E+03	n		2.9E+02	
				5.0E-02	I					1	0.1		Zineb	12122-67-7	3.1E+03	n	3.1E+04	n					7.8E+02	n		2.3E+00	