WEST VIRGINIA SECRETARY OF STATE

MAC WARNER

ADMINISTRATIVE LAW DIVISION

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6/28/2021 2:19:42 PM

Office of West Virginia
Secretary Of State

NOTICE OF PUBLIC COMMENT PERIOD

AGENCY: Environmental Protection Secretarys Office

TITLE-SERIES: 60-09

RULE TYPE: Interpretive

Amendment to Existing Rule: No

Repeal of existing rule: No

RULE NAME: Voluntary Remediation and Redevelopment De Minimis Standards

CITE STATUTORY AUTHORITY: W. Va. Code § 22-22-3

COMMENTS LIMITED TO:

Oral and Written

DATE OF PUBLIC HEARING: 07/28/2021 6:00 PM

LOCATION OF PUBLIC HEARING:

Virtual - Details in Public Notice

DATE WRITTEN COMMENT PERIOD ENDS: 07/28/2021 6:00 PM

COMMENTS MAY BE MAILED OR EMAILED TO:

NAME: Casey Korbini

ADDRESS: 131A Peninsula Street

Wheeling, WV 26003

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PLEASE INDICATE IF THIS FILING INCLUDES:

RELEVANT FEDERAL STATUTES OR REGULATIONS: No

(IF YES, PLEASE UPLOAD IN THE SUPPORTING DOCUMENTS FIELD)

INCORPORATED BY REFERENCE: No

(IF YES, PLEASE UPLOAD IN THE SUPPORTING DOCUMENTS FIELD)

PROVIDE A BRIEF SUMMARY OF THE CONTENT OF THE RULE:

This Interpretive Rule establishes the De Minimis Standards applicable for voluntary remediation activities and brownfield revitalization performed in accordance with the Voluntary Remediation and Redevelopment Act, W. Va. Code § 22-22-1, et seq.

SUMMARIZE IN A CLEAR AND CONCISE MANNER CONTENTS OF CHANGES IN THE RULE AND A STATEMENT OF CIRCUMSTANCES REQUIRING THE RULE:

The Voluntary Remediation and Redevelopment Act (W. Va. Code § 22-22-1, et seq.) established the WV Voluntary Remediation Program, which applies De Minimis Standards during voluntary remediation activities and brownfield revitalization. De Minimis Standards are contaminant levels that pose no substantial risk to human health based on the current or reasonably anticipated future land and groundwater use for either residential or industrial purposes. The Voluntary Remediation and Redevelopment Rule (60CSR3) outlines the method for calculating De Minimis Standards, which are to be reviewed annually and updated as necessary to reflect current toxicity information, chemical-specific data, and exposure parameters.

During the 2021 Legislative Session, the process for annual review and revisions to the De Minimis Standards through an Interpretive Rule was added to the Voluntary Remediation and Redevelopment Rule (60CSR3 §9.2.d), and the De Minimis Standards Table was removed from the Rule at that time.

The Interpretive Rule contains the De Minimis Standards Table that was removed from 60CSR3, with revisions to reflect current and relevant chemical-specific data, exposure parameters, and toxicity information.

SUMMARIZE IN A CLEAR AND CONCISE MANNER THE OVERALL ECONOMIC IMPACT OF THE PROPOSED RULE:

A. ECONOMIC IMPACT ON REVENUES OF STATE GOVERNMENT:

The proposed rule will have no economic impact on revenues of state government.

B. ECONOMIC IMPACT ON SPECIAL REVENUE ACCOUNTS:

The proposed rule will have no economic impact on special revenue accounts.

C. ECONOMIC IMPACT OF THE RULE ON THE STATE OR ITS RESIDENTS:

The proposed rule will have no economic impact on the state or its residents.

D. FISCAL NOTE DETAIL:

Effect of Proposal	**Fiscal Year**		
	2021 Increase/Decrease (use "-")	**2022 Increase/Decrease (use "-")**	**Fiscal Year (Upon Full Implementation)**
1. Estimated Total Cost	0	0	0
Personal Services			
Current Expenses			
Repairs and Alterations			
Assets			
Other			
2. Estimated Total Revenues	0	0	0

E. EXPLANATION OF ABOVE ESTIMATES (INCLUDING LONG-RANGE EFFECT):

No increase or decrease of costs or revenues is expected.

BY CHOOSING 'YES', I ATTEST THAT THE PREVIOUS STATEMENT IS TRUE AND CORRECT.

Yes
Jason E Wandling -- By my signature, I certify that I am the person authorized to file legislative rules, in accordance with West Virginia Code §29A-3-11 and §39A-3-2.

TITLE 60
INTERPRETIVE RULE
DEPARTMENT OF ENVIRONMENTAL PROTECTION, SECRETARY'S OFFICE

SERIES 9
VOLUNTARY REMEDIATION AND REDEVELOPMENT DE MINIMIS STANDARDS

§60-9-1. General.

1.1. Scope. -- This Interpretive Rule establishes the De Minimis Standards applicable for voluntary remediation activities and brownfield revitalization performed in accordance with the Voluntary Remediation and Redevelopment Act, W. Va. Code § 22-22-1, et seq.

1.2. Authority. -- W. Va. Code § 22-22-3.

1.3. Filing Date. --

1.4. Effective Date. --

§60-9-2. Definitions.

The definitions contained in W. Va. Code § 22-22-2 and the Voluntary Remediation and Redevelopment Rule, 60CSR3, apply to this rule, in addition to those definitions set forth below:

2.1. "De Minimis Standard" means a contaminant level that poses no substantial risk to human health based on the current or reasonably anticipated future land and groundwater use for either residential or industrial purposes.

§60-9-3. De Minimis Standards.

3.1. The Secretary shall review the De Minimis Standards annually and, if necessary, update the De Minimis Standards to reflect current toxicity information, chemical-specific data, and exposure parameters. Additionally, updates to the De Minimis Standards shall occur following significant regulatory changes such as a revised groundwater quality standard or listing of a new hazardous substance in § 104(14) of CERCLA.

3.2. The Voluntary Remediation and Redevelopment Rule, 60CSR3 (§ 9.2.d), outlines the method for calculating De Minimis Standards.

3.3. De Minimis Standards to be used in all voluntary remediation activities and brownfield revitalization are presented in Table 60-9.

Table 60-9: De Minimis Standards Table

CONTAMINANT	CAS No.	Residential Soil[1,3] (mg/kg)	Value Basis[4]	Industrial Soil[1,3] (mg/kg)	Value Basis[4]	Groundwater[2,3] (ug/L)	Value Basis[4]
Acetaldehyde	75-07-0	1.2E+01	c	3.7E+02	nc	2.6E+00	c
Acetochlor	34256-82-1	1.3E+03	nc	1.6E+04	nc	3.5E+02	nc
Acetone	67-64-1	6.1E+04	nc	1.1E+05	Csat	1.4E+04	nc
Acetonitrile	75-05-8	8.7E+02	nc	3.7E+03	nc	1.3E+02	nc
Acetophenone	98-86-2	2.5E+03	Csat	2.5E+03	Csat	1.9E+03	nc
Acrolein	107-02-8	1.5E-01	nc	6.5E-01	nc	4.2E-02	nc
Acrylamide	79-06-1	2.4E-01	c	4.6E+01	c	5.0E-02	c
Acrylonitrile	107-13-1	2.7E-01	c	1.2E+01	c	5.2E-02	c
Alachlor	15972-60-8	9.7E+00	c	4.1E+02	c	2.0E+00	gws
Alar	1596-84-5	3.0E+01	c	1.3E+03	c	4.3E+00	c
Aldicarb	116-06-3	6.3E+01	nc	8.2E+02	nc	3.0E+00	gws
Aldicarb sulfone	1646-88-4	6.3E+01	nc	8.2E+02	nc	2.0E+00	gws
Aldrin	309-00-2	3.9E-02	c	1.8E+00	c	9.2E-04	c
Aluminum	7429-90-5	7.7E+04	nc	1.0E+06	max	2.0E+04	nc
Aniline	62-53-3	9.5E+01	c	4.0E+03	c	1.3E+01	c
Antimony and compounds	7440-36-0	3.1E+01	nc	4.7E+02	nc	6.0E+00	gws
Arsenic	7440-38-2	6.8E-01	c	3.0E+01	c	1.0E+01	gws
Assure	76578-14-8	5.7E+02	nc	7.4E+03	nc	1.2E+02	nc
Atrazine	1912-24-9	2.4E+00	c	1.0E+02	c	3.0E+00	gws
Azobenzene	103-33-3	5.6E+00	c	2.6E+02	c	1.2E-01	c
Barium and compounds	7440-39-3	1.5E+04	nc	2.2E+05	nc	2.0E+03	gws
Baygon	114-26-1	2.5E+02	nc	3.3E+03	nc	7.8E+01	nc
Baythroid	68359-37-5	1.6E+03	nc	2.1E+04	nc	1.2E+02	nc
Bentazon	25057-89-0	1.9E+03	nc	2.5E+04	nc	5.7E+02	nc
Benzaldehyde	100-52-7	1.7E+02	c	1.2E+03	Csat	1.9E+01	c

CONTAMINANT	CAS No.	Residential Soil[1,3] (mg/kg)	Value Basis[4]	Industrial Soil[1,3] (mg/kg)	Value Basis[4]	Groundwater[2,3] (ug/L)	Value Basis[4]
Benzene	71-43-2	1.2E+00	c	5.4E+01	c	5.0E+00	gws
Benzidine	92-87-5	5.3E-04	c	1.0E-01	c	1.1E-04	c
Benzoic acid	65-85-0	2.5E+05	nc	1.0E+06	max	7.5E+04	nc
Benzyl alcohol	100-51-6	6.3E+03	nc	8.2E+04	nc	2.0E+03	nc
Benzyl chloride	100-44-7	1.1E+00	c	5.1E+01	c	8.9E-02	c
Beryllium and compounds	7440-41-7	1.6E+02	nc	2.3E+03	nc	4.0E+00	gws
1,1'-Biphenyl	92-52-4	5.1E+01	nc	2.1E+02	nc	8.3E-01	nc
Bis(2-chloroethyl)ether	111-44-4	2.4E-01	c	1.1E+01	c	1.4E-02	c
Bis(2-chloroisopropyl)ether	108-60-1	5.1E+00	c	2.3E+02	c	3.6E-01	c
Bis(chloromethyl)ether	542-88-1	8.9E-05	c	3.9E-03	c	7.2E-05	c
Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7	3.9E+01	c	1.6E+03	c	6.0E+00	gws
Bromodichloromethane	75-27-4	3.1E-01	c	1.4E+01	c	8.0E+01	gws
Bromoform (tribromomethane)	75-25-2	2.0E+01	c	9.1E+02	c	8.0E+01	gws
Bromomethane	74-83-9	7.3E+00	nc	3.2E+01	nc	7.5E+00	nc
Bromophos	2104-96-3	3.4E+02	nc	3.8E+03	nc	1.8E+01	nc
1,3-Butadiene	106-99-0	8.1E-02	c	3.6E+00	c	7.1E-02	c
1-Butanol	71-36-3	4.7E+03	nc	7.6E+03	Csat	5.3E+02	nc
Butylate	2008-41-5	3.2E+03	nc	3.3E+04	nc	2.1E+02	nc
n-Butylbenzene	104-51-8	1.1E+02	Csat	1.1E+02	Csat	1.0E+03	nc
Butyl benzyl phthalate	85-68-7	2.9E+02	c	1.2E+04	c	1.6E+01	c
Cadmium and compounds	7440-43-9	3.7E+01	nc	5.3E+02	nc	5.0E+00	gws
Caprolactam	105-60-2	3.1E+04	nc	4.0E+05	nc	9.9E+03	nc
Carbaryl	63-25-2	6.3E+03	nc	8.2E+04	nc	1.8E+03	nc
Carbon disulfide	75-15-0	7.4E+02	Csat	7.4E+02	Csat	8.1E+02	nc
Carbon tetrachloride	56-23-5	7.0E-01	c	3.1E+01	c	5.0E+00	gws
Carbosulfan	55285-14-8	6.3E+02	nc	8.2E+03	nc	5.1E+01	nc
Chloranil	118-75-2	1.4E+00	c	5.7E+01	c	1.8E-01	c

CONTAMINANT	CAS No.	Residential Soil[1,3] (mg/kg)	Value Basis[4]	Industrial Soil[1,3] (mg/kg)	Value Basis[4]	Groundwater[2,3] (ug/L)	Value Basis[4]
Chlordane (Technical Mixture)	12789-03-6	1.9E+00	c	8.9E+01	c	2.0E+00	gws
Chloroacetic acid	79-11-8	1.3E+02	nc	1.6E+03	nc	6.0E+01	gws
4-Chloroaniline	106-47-8	2.7E+00	c	1.1E+02	c	3.7E-01	c
Chlorobenzene	108-90-7	2.9E+02	nc	7.6E+02	Csat	1.0E+02	gws
Chlorobenzilate	510-15-6	4.9E+00	c	2.1E+02	c	3.1E-01	c
p-Chlorobenzoic acid	74-11-3	1.9E+03	nc	2.5E+04	nc	5.1E+02	nc
2-Chloro-1,3-butadiene	126-99-8	1.1E-02	c	4.7E-01	c	1.9E-02	c
1-Chlorobutane	109-69-3	2.5E+02	nc	7.3E+02	Csat	2.0E+02	nc
Chloroethane	75-00-3	2.1E+03	Csat	2.1E+03	Csat	2.1E+04	nc
Chloroform	67-66-3	3.4E-01	c	1.5E+01	c	8.0E+01	gws
Chloromethane	74-87-3	1.2E+02	nc	5.0E+02	nc	1.9E+02	nc
4-Chloro-2-methylaniline	95-69-2	5.4E+00	c	2.3E+02	c	7.0E-01	c
beta-Chloronaphthalene	91-58-7	5.0E+03	nc	5.0E+04	nc	3.3E+02	nc
o-Chloronitrobenzene	88-73-3	1.8E+00	c	7.7E+01	c	2.4E-01	c
p-Chloronitrobenzene	100-00-5	9.0E+00	c	3.8E+02	c	1.2E+00	c
2-Chlorophenol	95-57-8	3.4E+02	nc	3.9E+03	nc	2.7E+01	nc
o-Chlorotoluene	95-49-8	4.5E+02	nc	9.1E+02	Csat	9.0E+01	nc
Chlorpyrifos-methyl	5598-13-0	6.3E+02	nc	8.2E+03	nc	1.2E+02	nc
Chromium III	16065-83-1	1.2E+05	nc	1.0E+06	max	2.2E+04	nc
Chromium VI	18540-29-9	3.0E-01	c	6.3E+01	c	3.5E-02	c
Cobalt	7440-48-4	2.3E+01	nc	3.5E+02	nc	6.0E+00	nc
Copper and compounds	7440-50-8	3.1E+03	nc	4.7E+04	nc	1.3E+03	gws
Crotonaldehyde	123-73-9	8.2E-02	c	3.6E+00	c	8.2E-03	c
Cyanazine	21725-46-2	6.5E-01	c	2.7E+01	c	8.8E-02	c
Cyanide and compounds	74-90-8	2.3E+01	nc	1.5E+02	nc	2.0E+02	gws
Cyanogen	460-19-5	7.8E+01	nc	1.2E+03	nc	2.0E+01	nc
Cyanogen bromide	506-68-3	7.0E+03	nc	1.1E+05	nc	1.8E+03	nc

CONTAMINANT	CAS No.	Residential Soil[1,3] (mg/kg)	Value Basis[4]	Industrial Soil[1,3] (mg/kg)	Value Basis[4]	Groundwater[2,3] (ug/L)	Value Basis[4]
Cyclohexane	110-82-7	1.2E+02	Csat	1.2E+02	Csat	1.3E+04	nc
Cyclohexanone	108-94-1	5.1E+03	Csat	5.1E+03	Csat	1.4E+03	nc
Cyhalothrin/Karate	68085-85-8	6.3E+01	nc	8.2E+02	nc	2.0E+01	nc
Cypermethrin	52315-07-8	3.8E+03	nc	4.9E+04	nc	1.2E+03	nc
Dacthal	1861-32-1	6.3E+02	nc	8.2E+03	nc	1.2E+02	nc
Dalapon	75-99-0	1.9E+03	nc	2.5E+04	nc	2.0E+02	gws
DDD	72-54-8	1.9E+00	nc	2.5E+01	nc	3.2E-02	c
DDE	72-55-9	2.0E+00	c	9.3E+01	c	4.6E-02	c
DDT	50-29-3	1.9E+00	c	8.5E+01	c	2.3E-01	c
Diazinon	333-41-5	4.4E+01	nc	5.7E+02	nc	1.0E+01	nc
Dibenzofuran	132-64-9	7.8E+01	nc	1.2E+03	nc	7.9E+00	nc
1,4-Dibromobenzene	106-37-6	4.1E+02	nc	2.8E+03	nc	4.7E+01	nc
Dibromochloromethane	124-48-1	8.3E+00	c	3.9E+02	c	8.0E+01	gws
1,2-Dibromo-3-chloropropane	96-12-8	5.7E-03	c	6.9E-01	c	2.0E-01	gws
1,2-Dibromoethane	106-93-4	3.9E-02	c	1.7E+00	c	5.0E-02	gws
Dibutyl phthalate	84-74-2	6.3E+03	nc	8.2E+04	nc	9.0E+02	nc
Dicamba	1918-00-9	1.9E+03	nc	2.5E+04	nc	5.7E+02	nc
1,2-Dichlorobenzene	95-50-1	3.8E+02	Csat	3.8E+02	Csat	6.0E+02	gws
1,4-Dichlorobenzene	106-46-7	2.8E+00	c	1.2E+02	c	7.5E+01	gws
3,3'-Dichlorobenzidine	91-94-1	1.2E+00	c	5.1E+01	c	1.3E-01	c
1,4-Dichloro-2-butene	764-41-0	2.3E-03	c	1.0E-01	c	1.3E-03	c
Dichlorodifluoromethane	75-71-8	9.4E+01	nc	4.0E+02	nc	2.0E+02	nc
1,1-Dichloroethane	75-34-3	3.8E+00	c	1.7E+02	c	2.8E+00	c
1,2-Dichloroethane	107-06-2	5.0E-01	c	2.2E+01	c	5.0E+00	gws
1,1-Dichloroethylene	75-35-4	2.4E+02	nc	1.1E+03	nc	7.0E+00	gws
1,2-Dichloroethylene (cis)	156-59-2	1.7E+01	nc	8.0E+01	nc	7.0E+01	gws
1,2-Dichloroethylene (trans)	156-60-5	7.5E+01	nc	3.2E+02	nc	1.0E+02	gws

CONTAMINANT	CAS No.	Residential Soil[1,3] (mg/kg)	Value Basis[4]	Industrial Soil[1,3] (mg/kg)	Value Basis[4]	Groundwater[2,3] (ug/L)	Value Basis[4]
2,4-Dichlorophenol	120-83-2	1.9E+02	nc	2.5E+03	nc	4.6E+01	nc
4-(2,4-Dichlorophenoxy)butyric Acid (2,4-DB)	94-82-6	1.9E+03	nc	2.5E+04	nc	4.5E+02	nc
2,4-Dichlorophenoxyacetic Acid (2,4-D)	94-75-7	7.0E+02	nc	9.6E+03	nc	7.0E+01	gws
1,2-Dichloropropane	78-87-5	2.7E+00	c	7.1E+01	nc	5.0E+00	gws
1,3-Dichloropropene	542-75-6	1.9E+00	c	8.6E+01	c	4.7E-01	c
2,3-Dichloropropanol	616-23-9	1.9E+02	nc	2.5E+03	nc	5.9E+01	nc
Dichlorvos	62-73-7	1.9E+00	c	7.9E+01	c	2.6E-01	c
Dicyclopentadiene	77-73-6	1.4E+00	nc	5.8E+00	nc	6.3E-01	nc
Dieldrin	60-57-1	4.2E-02	c	2.0E+00	c	7.2E-04	c
Diethylene glycol, monobutyl ether	112-34-5	1.9E+03	nc	2.4E+04	nc	6.0E+02	nc
Diethylene glycol, monoethyl ether	111-90-0	3.8E+03	nc	4.8E+04	nc	1.2E+03	nc
Di(2-ethylhexyl)adipate	103-23-1	4.5E+02	c	1.9E+04	c	4.0E+02	gws
Diethyl phthalate	84-66-2	5.1E+04	nc	6.6E+05	nc	1.5E+04	nc
Diethylstilbestrol	56-53-1	1.6E-03	c	6.6E-02	c	5.1E-05	c
Difenzoquat (Avenge)	43222-48-6	5.2E+03	nc	6.8E+04	nc	1.7E+03	nc
1,1-Difluoroethane	75-37-6	1.4E+03	Csat	1.4E+03	Csat	8.3E+04	nc
Diisopropyl methylphosphonate	1445-75-6	5.3E+02	Csat	5.3E+02	Csat	1.6E+03	nc
3,3'-Dimethoxybenzidine	119-90-4	3.4E-01	c	1.4E+01	c	4.7E-02	c
N-N-Dimethylaniline	121-69-7	2.6E+01	c	7.2E+02	nc	2.5E+00	c
2,4-Dimethylaniline	95-68-1	2.7E+00	c	1.1E+02	c	3.7E-01	c
2,4-Dimethylaniline hydrochloride	21436-96-4	9.4E-01	c	4.0E+01	c	1.3E-01	c
3,3'-Dimethylbenzidine	119-93-7	4.9E-02	c	2.1E+00	c	6.5E-03	c
2,4-Dimethylphenol	105-67-9	1.3E+03	nc	1.6E+04	nc	3.6E+02	nc
2,6-Dimethylphenol	576-26-1	3.8E+01	nc	4.9E+02	nc	1.1E+01	nc
3,4-Dimethylphenol	95-65-8	6.3E+01	nc	8.2E+02	nc	1.8E+01	nc
4,6-Dinitro-o-cyclohexyl phenol	131-89-5	1.3E+02	nc	1.6E+03	nc	2.3E+01	nc
1,2-Dinitrobenzene	528-29-0	6.3E+00	nc	8.2E+01	nc	1.9E+00	nc

CONTAMINANT	CAS No.	Residential Soil[1,3] (mg/kg)	Value Basis[4]	Industrial Soil[1,3] (mg/kg)	Value Basis[4]	Groundwater[2,3] (ug/L)	Value Basis[4]
1,3-Dinitrobenzene	99-65-0	6.3E+00	nc	8.2E+01	nc	2.0E+00	nc
1,4-Dinitrobenzene	100-25-4	6.3E+00	nc	8.2E+01	nc	2.0E+00	nc
2,4-Dinitrophenol	51-28-5	1.3E+02	nc	1.6E+03	nc	3.9E+01	nc
Dinitrotoluene (Technical Grade)	25321-14-6	1.2E+00	c	5.1E+01	c	1.0E-01	c
2,4-Dinitrotoluene	121-14-2	1.7E+00	c	7.4E+01	c	2.4E-01	c
2,6-Dinitrotoluene	606-20-2	3.6E-01	c	1.5E+01	c	4.9E-02	c
Dinoseb	88-85-7	6.3E+01	nc	8.2E+02	nc	7.0E+00	gws
1,4-Dioxane	123-91-1	5.4E+00	c	2.5E+02	c	4.6E-01	c
Diphenylamine	122-39-4	6.3E+03	nc	8.2E+04	nc	1.3E+03	nc
1,2-Diphenylhydrazine	122-66-7	6.8E-01	c	2.9E+01	c	7.8E-02	c
Diquat	2764-72-9	1.4E+02	nc	1.8E+03	nc	2.0E+01	gws
Disulfoton	298-04-4	2.5E+00	nc	3.3E+01	nc	5.0E-01	nc
1,4-Dithiane	505-29-3	5.4E+02	nc	4.6E+03	nc	5.3E+01	nc
Diuron	330-54-1	1.3E+02	nc	1.6E+03	nc	3.6E+01	nc
Endosulfan	115-29-7	4.5E+02	nc	6.0E+03	nc	3.1E+01	nc
Endothall	145-73-3	1.3E+03	nc	1.6E+04	nc	1.0E+02	gws
Endrin	72-20-8	1.9E+01	nc	2.5E+02	nc	2.0E+00	gws
Epichlorohydrin	106-89-8	2.0E+01	nc	8.8E+01	nc	2.0E+00	nc
Ethion	563-12-2	3.2E+01	nc	4.1E+02	nc	4.3E+00	nc
2-Ethoxyethanol	110-80-5	5.3E+03	nc	4.9E+04	nc	3.4E+02	nc
Ethyl acetate	141-78-6	6.7E+02	nc	2.8E+03	nc	1.4E+02	nc
Ethylbenzene	100-41-4	6.2E+00	c	2.7E+02	c	7.0E+02	gws
Ethylene diamine	107-15-3	6.3E+03	nc	7.6E+04	nc	4.9E+02	nc
Ethylene glycol	107-21-1	1.3E+05	nc	1.0E+06	max	4.0E+04	nc
Ethylene glycol, monobutyl ether	111-76-2	6.3E+03	nc	8.2E+04	nc	2.0E+03	nc
Ethylene thiourea (ETU)	96-45-7	5.1E+00	nc	6.6E+01	nc	1.6E+00	nc
Ethyl ether	60-29-7	2.1E+03	nc	9.9E+03	nc	1.1E+03	nc

CONTAMINANT	CAS No.	Residential Soil[1,3] (mg/kg)	Value Basis[4]	Industrial Soil[1,3] (mg/kg)	Value Basis[4]	Groundwater[2,3] (ug/L)	Value Basis[4]
Ethyl methacrylate	97-63-2	1.1E+03	Csat	1.1E+03	Csat	6.3E+02	nc
Fenamiphos	22224-92-6	1.6E+01	nc	2.1E+02	nc	4.4E+00	nc
Fluometuron	2164-17-2	8.2E+02	nc	1.1E+04	nc	2.4E+02	nc
Fluorine (Soluble Fluoride)	7782-41-4	4.7E+03	nc	7.0E+04	nc	4.0E+03	gws
Fomesafen	72178-02-0	1.6E+02	nc	2.1E+03	nc	4.8E+01	nc
Fonofos	944-22-9	1.3E+02	nc	1.6E+03	nc	2.4E+01	nc
Formaldehyde	50-00-0	1.8E+01	c	7.9E+02	c	4.3E-01	c
Formic Acid	64-18-6	3.1E+01	nc	1.3E+02	nc	6.3E-01	nc
Furan	110-00-9	9.1E+00	nc	4.2E+01	nc	5.3E+00	nc
Furazolidone	67-45-8	1.4E-01	c	6.0E+00	c	2.0E-02	c
Furfural	98-01-1	2.2E+02	nc	2.7E+03	nc	3.8E+01	nc
Glycidaldehyde	765-34-4	2.4E+01	nc	2.1E+02	nc	1.7E+00	nc
Glyphosate	1071-83-6	6.3E+03	nc	8.2E+04	nc	7.0E+02	gws
Heptachlor	76-44-8	1.4E-01	c	6.3E+00	c	4.0E-01	gws
Heptachlor epoxide	1024-57-3	7.1E-02	c	3.3E+00	c	2.0E-01	gws
Hexabromobenzene	87-82-1	1.5E+02	nc	2.0E+03	nc	1.1E+01	nc
Hexachlorobenzene	118-74-1	2.2E-01	c	1.0E+01	c	1.0E+00	gws
Hexachlorobutadiene	87-68-3	1.3E+00	c	1.7E+01	Csat	1.4E-01	c
HCH (alpha)	319-84-6	8.6E-02	c	3.6E+00	c	7.2E-03	c
HCH (beta)	319-85-7	3.0E-01	c	1.3E+01	c	2.5E-02	c
HCH (gamma) Lindane	58-89-9	5.7E-01	c	2.5E+01	c	2.0E-01	gws
HCH-technical	608-73-1	3.0E-01	c	1.3E+01	c	2.5E-02	c
Hexachlorocyclopentadiene	77-47-4	1.9E+00	nc	8.0E+00	nc	5.0E+01	gws
Hexachlorodibenzo-p-dioxin mixture (HxCDD)	Various	1.0E-04	c	4.7E-03	c	1.3E-05	c
Hexachloroethane	67-72-1	2.0E+00	c	8.6E+01	c	3.3E-01	c
Hexachlorophene	70-30-4	1.9E+01	nc	2.5E+02	nc	6.0E+00	nc
1,6-Hexamethylene diisocyanate	822-06-0	3.4E+00	nc	1.4E+01	nc	2.1E-02	nc

CONTAMINANT	CAS No.	Residential Soil[1,3] (mg/kg)	Value Basis[4]	Industrial Soil[1,3] (mg/kg)	Value Basis[4]	Groundwater[2,3] (ug/L)	Value Basis[4]
n-Hexane	110-54-3	1.4E+02	Csat	1.4E+02	Csat	1.5E+03	nc
Hexazinone	51235-04-2	2.1E+03	nc	2.7E+04	nc	6.4E+02	nc
HMX	2691-41-0	3.9E+03	nc	5.7E+04	nc	1.0E+03	nc
Hydrazine	302-01-2	3.4E-02	c	1.5E+00	c	1.1E-03	c
Hydrogen sulfide	7783-06-4	1.0E+06	max	1.0E+06	max	4.2E+00	nc
p-Hydroquinone	123-31-9	9.0E+00	c	3.8E+02	c	1.3E+00	c
Iron	7439-89-6	5.5E+04	nc	8.2E+05	nc	1.4E+04	nc
Isobutanol	78-83-1	1.0E+04	Csat	1.0E+04	Csat	1.7E+03	nc
Isophorone	78-59-1	5.7E+02	c	2.4E+04	c	7.8E+01	c
Isopropalin	33820-53-0	1.1E+03	nc	1.5E+04	nc	2.9E+01	nc
Isopropylbenzene (Cumene)	98-82-8	2.7E+02	Csat	2.7E+02	Csat	4.5E+02	nc
Isopropyl methyl phosphonic acid	1832-54-8	6.3E+03	nc	8.2E+04	nc	2.0E+03	nc
Lead*	7439-92-1	4.0E+02	nc	8.0E+02	nc	1.5E+01	gws
Lead (tetraethyl)	78-00-2	7.8E-03	nc	1.2E-01	nc	1.3E-03	nc
Lithium	7439-93-2	1.6E+02	nc	2.3E+03	nc	4.0E+01	nc
Malathion	121-75-5	1.3E+03	nc	1.6E+04	nc	3.9E+02	nc
Maleic anhydride	108-31-6	6.3E+03	nc	8.0E+04	nc	1.9E+03	nc
Manganese (non-food)	7439-96-5	1.8E+03	nc	2.6E+04	nc	4.3E+02	nc
Mephosfolan	950-10-7	5.7E+00	nc	7.4E+01	nc	1.8E+00	nc
Mepiquat	24307-26-4	1.9E+03	nc	2.5E+04	nc	6.0E+02	nc
Mercury (elemental and inorganic)	7439-97-6	3.1E+00	Csat	3.1E+00	Csat	2.0E+00	gws
Mercury (methyl)	22967-92-6	7.8E+00	nc	1.2E+02	nc	2.0E+00	nc
Methacrylonitrile	126-98-7	7.6E+00	nc	1.0E+02	nc	1.9E+00	nc
Methanol	67-56-1	1.1E+05	Csat	1.1E+05	Csat	2.0E+04	nc
Methidathion	950-37-8	9.5E+01	nc	1.2E+03	nc	2.9E+01	nc
Methoxychlor	72-43-5	3.2E+02	nc	4.1E+03	nc	4.0E+01	gws
Methyl acetate	79-20-9	2.3E+04	nc	2.9E+04	Csat	5.3E+03	nc

CONTAMINANT	CAS No.	Residential Soil[1,3] (mg/kg)	Value Basis[4]	Industrial Soil[1,3] (mg/kg)	Value Basis[4]	Groundwater[2,3] (ug/L)	Value Basis[4]
Methyl acrylate	96-33-3	1.6E+02	nc	6.6E+02	nc	4.2E+01	nc
Methyl Tertiary Butyl Ether (MTBE)	1634-04-4	5.0E+01	c	2.2E+03	c	1.4E+01	c
2-Methylaniline (o-toluidine)	95-53-4	3.4E+01	c	1.4E+03	c	4.7E+00	c
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	94-74-6	3.2E+01	nc	4.1E+02	nc	7.5E+00	nc
4-(2-Methyl-4-chlorophenoxy) butyric acid (MCPB)	94-81-5	2.8E+02	nc	3.6E+03	nc	6.5E+01	nc
2-(2-Methyl-4-chlorophenoxy) propionic acid (MCPP)	93-65-2	6.3E+01	nc	8.2E+02	nc	1.6E+01	nc
4,4'-Methylenebisbenzeneamine	101-77-9	3.4E-01	c	1.4E+01	c	4.7E-02	c
4,4'-Methylene bis(2-chloroaniline)	101-14-4	1.2E+00	c	2.3E+02	c	1.6E-01	c
4,4'-Methylene bis(N,N'-dimethyl)aniline	101-61-1	1.2E+01	c	5.0E+02	c	7.4E-01	c
Methylene bromide (Dibromomethane)	74-95-3	2.5E+01	nc	1.1E+02	nc	8.0E+00	nc
Methylene chloride (Dichloromethane)	75-09-2	5.8E+01	c	3.3E+03	nc	5.0E+00	gws
Methylenediphenyl diisocyanate	101-68-8	8.5E+05	nc	1.0E+06	max		
Methyl ethyl ketone	78-93-3	2.8E+04	nc	2.8E+04	Csat	5.6E+03	nc
Methyl isobutyl ketone	108-10-1	3.4E+03	Csat	3.4E+03	Csat	1.2E+03	nc
Methyl methacrylate	80-62-6	2.4E+03	Csat	2.4E+03	Csat	1.4E+03	nc
2-Methyl-5-nitroaniline	99-55-8	6.0E+01	c	2.6E+03	c	8.2E+00	c
Methyl parathion	298-00-0	1.6E+01	nc	2.1E+02	nc	4.5E+00	nc
2-Methylphenol (o-Cresol)	95-48-7	3.2E+03	nc	4.1E+04	nc	9.3E+02	nc
3-Methylphenol (m-Cresol)	108-39-4	3.2E+03	nc	4.1E+04	nc	9.3E+02	nc
4-Methylphenol (p-Cresol)	106-44-5	6.3E+03	nc	8.2E+04	nc	1.9E+03	nc
Methyl styrene (mixture)	25013-15-4	3.3E+02	nc	3.9E+02	Csat	2.3E+01	nc
Methyl styrene (alpha)	98-83-9	5.0E+02	Csat	5.0E+02	Csat	7.8E+02	nc
Metolachlor (Dual)	51218-45-2	9.5E+03	nc	1.2E+05	nc	2.7E+03	nc
Metribuzin	21087-64-9	1.6E+03	nc	2.1E+04	nc	4.9E+02	nc
Mirex	2385-85-5	3.6E-02	c	1.7E+00	c	8.8E-04	c
Molybdenum	7439-98-7	3.9E+02	nc	5.8E+03	nc	1.0E+02	nc
Monochloramine	10599-90-3	7.8E+03	nc	1.2E+05	nc	4.0E+03	gws

CONTAMINANT	CAS No.	Residential Soil[1,3] (mg/kg)	Value Basis[4]	Industrial Soil[1,3] (mg/kg)	Value Basis[4]	Groundwater[2,3] (ug/L)	Value Basis[4]
Naled	300-76-5	1.2E+02	nc	1.0E+03	nc	1.1E+01	nc
Nickel and compounds	7440-02-0	1.5E+03	nc	2.2E+04	nc	3.9E+02	nc
Nitrate	14797-55-8	1.3E+05	nc	1.0E+06	max	1.0E+04	gws
Nitrite	14797-65-0	7.8E+03	nc	1.2E+05	nc	1.0E+03	gws
2-Nitroaniline	88-74-4	6.3E+02	nc	8.0E+03	nc	1.9E+02	nc
Nitrobenzene	98-95-3	5.5E+00	c	2.4E+02	c	1.4E-01	c
Nitrofurantoin	67-20-9	4.4E+03	nc	5.7E+04	nc	1.4E+03	nc
Nitrofurazone	59-87-0	4.2E-01	c	1.8E+01	c	6.0E-02	c
Nitroglycerin	55-63-0	6.3E+00	nc	8.2E+01	nc	2.0E+00	nc
2-Nitropropane	79-46-9	1.5E-02	c	6.4E-01	c	2.1E-03	c
N-Nitrosodi-n-butylamine	924-16-3	1.0E-01	c	4.7E+00	c	2.7E-03	c
N-Nitrosodiethanolamine	1116-54-7	1.9E-01	c	8.2E+00	c	2.8E-02	c
N-Nitrosodiethylamine	55-18-5	8.1E-04	c	1.5E-01	c	1.7E-04	c
N-Nitrosodimethylamine	62-75-9	2.0E-03	c	3.5E-01	c	1.1E-04	c
N-Nitrosodiphenylamine	86-30-6	1.1E+02	c	4.7E+03	c	1.2E+01	c
N-Nitroso di-n-propylamine	621-64-7	7.8E-02	c	3.3E+00	c	1.1E-02	c
N-Nitroso-N-methylethylamine	10595-95-6	2.0E-02	c	9.4E-01	c	7.1E-04	c
N-Nitrosopyrrolidine	930-55-2	2.6E-01	c	1.1E+01	c	3.7E-02	c
m-Nitrotoluene	99-08-1	6.3E+00	nc	8.2E+01	nc	1.7E+00	nc
o-Nitrotoluene	88-72-2	3.2E+00	c	1.5E+02	c	3.1E-01	c
p-Nitrotoluene	99-99-0	3.4E+01	c	1.4E+03	c	4.3E+00	c
NuStar (Flusilazole)	85509-19-9	1.3E+02	nc	1.6E+03	nc	3.1E+01	nc
Oryzalin	19044-88-3	7.0E+01	c	2.9E+03	c	7.9E+00	c
Oxadiazon	19666-30-9	3.2E+02	nc	4.1E+03	nc	4.7E+01	nc
Oxamyl	23135-22-0	1.6E+03	nc	2.1E+04	nc	2.0E+02	gws
Oxyfluorfen	42874-03-3	7.4E+00	c	3.1E+02	c	5.4E-01	c
Paraquat dichloride	1910-42-5	2.8E+02	nc	3.7E+03	nc	9.0E+01	nc

CONTAMINANT	CAS No.	Residential Soil[1,3] (mg/kg)	Value Basis[4]	Industrial Soil[1,3] (mg/kg)	Value Basis[4]	Groundwater[2,3] (ug/L)	Value Basis[4]
Parathion	56-38-2	3.8E+02	nc	4.9E+03	nc	8.6E+01	nc
Pentachlorobenzene	608-93-5	5.0E+01	nc	5.0E+02	nc	2.0E+00	nc
Pentachloronitrobenzene	82-68-8	2.7E+00	c	1.3E+02	c	1.2E-01	c
Pentachlorophenol	87-86-5	1.0E+00	c	4.0E+01	c	1.0E+00	gws
Perchlorate and perchlorate salts	Various	5.5E+01	nc	8.2E+02	nc	1.4E+01	nc
Permethrin	52645-53-1	3.2E+03	nc	4.1E+04	nc	1.0E+03	nc
Phenol	108-95-2	1.9E+04	nc	2.5E+05	nc	5.8E+03	nc
m-Phenylenediamine	108-45-2	3.8E+02	nc	4.9E+03	nc	1.2E+02	nc
p-Phenylenediamine	106-50-3	6.3E+01	nc	8.2E+02	nc	2.0E+01	nc
2-Phenylphenol	90-43-7	2.9E+02	c	1.2E+04	c	3.1E+01	c
Phosphine	7803-51-2	2.3E+01	nc	3.5E+02	nc	5.7E-01	nc
Phosphorus (white)	7723-14-0	1.6E+00	nc	2.3E+01	nc	4.0E-01	nc
p-Phthalic acid	100-21-0	3.2E+04	nc	4.1E+05	nc	9.4E+03	nc
Phthalic anhydride	85-44-9	1.3E+05	nc	1.0E+06	max	3.9E+04	nc
Polybrominated biphenyls	36355-01-8	1.8E-02	c	7.7E-01	c	2.6E-03	c
Polychlorinated biphenyls (PCBs)	1336-36-3	3.1E-01	c	1.4E+01	c	5.0E-01	gws
Aroclor 1016	12674-11-2	5.5E+00	nc	8.2E+01	nc	2.2E-01	c
Aroclor 1221	11104-28-2	2.6E-01	c	1.2E+01	c	7.9E-03	c
Aroclor 1232	11141-16-5	2.2E-01	c	1.0E+01	c	7.9E-03	c
Aroclor 1242	53469-21-9	3.1E-01	c	1.5E+01	c	7.9E-03	c
Aroclor 1248	12672-29-6	3.1E-01	c	1.5E+01	c	7.9E-03	c
Aroclor 1254	11097-69-1	3.2E-01	c	1.5E+01	c	7.9E-03	c
Aroclor 1260	11096-82-5	3.3E-01	c	1.6E+01	c	7.9E-03	c
Polycyclic Aromatic Hydrocarbons (PAHs)							
Acenaphthene	83-32-9	4.1E+03	nc	4.7E+04	nc	2.4E+02	nc
Acenaphthylene	208-96-8	4.2E+03	nc	5.1E+04	nc	2.4E+02	nc
Anthracene	120-12-7	2.3E+04	nc	3.5E+05	nc	1.8E+03	nc

CONTAMINANT	CAS No.	Residential Soil[1,3] (mg/kg)	Value Basis[4]	Industrial Soil[1,3] (mg/kg)	Value Basis[4]	Groundwater[2,3] (ug/L)	Value Basis[4]
Benz[a]anthracene	56-55-3	1.5E+00	c	3.2E+02	c	3.0E-02	c
Benzo[b]fluoranthene	205-99-2	1.1E+00	c	2.1E+02	c	2.5E-01	c
Benzo[k]fluoranthene	207-08-9	1.1E+01	c	2.1E+03	c	2.5E+00	c
Benzo[g,h,i]perylene	191-24-2	1.8E+03	nc	2.3E+04	nc	6.0E+02	nc
Benzo[a]pyrene	50-32-8	1.1E-01	c	2.1E+01	c	2.0E-01	gws
Chrysene	218-01-9	1.1E+02	c	2.1E+04	c	2.5E+01	c
Dibenz[a,h]anthracene	53-70-3	1.1E-01	c	2.1E+01	c	2.5E-02	c
Fluoranthene	206-44-0	2.4E+03	nc	3.0E+04	nc	8.0E+02	nc
Fluorene	86-73-7	2.9E+03	nc	3.7E+04	nc	1.5E+02	nc
Indeno[1,2,3-cd]pyrene	193-39-5	1.1E+00	c	2.1E+02	c	2.5E-01	c
1-Methylnaphthalene	90-12-0	2.4E+01	c	3.9E+02	Csat	1.1E+00	c
2-Methylnaphthalene	91-57-6	3.1E+02	nc	4.7E+03	nc	3.6E+01	nc
Naphthalene	91-20-3	2.4E+00	c	1.1E+02	c	1.2E-01	c
Phenanthrene	85-01-8	2.3E+04	nc	3.5E+05	nc	1.7E+03	nc
Pyrene	129-00-0	2.3E+03	nc	3.4E+04	nc	7.9E+01	nc
Prometon	1610-18-0	9.5E+02	nc	1.2E+04	nc	2.5E+02	nc
Prometryn	7287-19-6	2.5E+03	nc	3.3E+04	nc	6.0E+02	nc
Propachlor	1918-16-7	8.2E+02	nc	1.1E+04	nc	2.5E+02	nc
Propanil	709-98-8	3.2E+02	nc	4.1E+03	nc	8.2E+01	nc
Propargite	2312-35-8	2.9E+00	c	1.2E+02	c	1.6E-01	c
n-Propylbenzene	103-65-1	2.6E+02	Csat	2.6E+02	Csat	6.6E+02	nc
Propylene glycol	57-55-6	1.0E+06	max	1.0E+06	max	4.0E+05	nc
Propylene glycol, monoethyl ether	1569-02-4	3.9E+04	Csat	3.9E+04	Csat	1.4E+04	nc
Propylene glycol, monomethyl ether	107-98-2	4.2E+04	nc	1.1E+05	Csat	3.2E+03	nc
Pursuit (Imazethapyr)	81335-77-5	1.6E+05	nc	1.0E+06	max	4.7E+04	nc
Pyridine	110-86-1	5.8E+01	nc	5.1E+02	nc	5.3E+00	nc
Quinoline	91-22-5	1.8E-01	c	7.7E+00	c	2.4E-02	c

CONTAMINANT	CAS No.	Residential Soil[1,3] (mg/kg)	Value Basis[4]	Industrial Soil[1,3] (mg/kg)	Value Basis[4]	Groundwater[2,3] (ug/L)	Value Basis[4]
RDX (Cyclonite)	121-82-4	6.1E+00	c	2.8E+02	c	7.0E-01	c
Resmethrin	10453-86-8	1.9E+03	nc	2.5E+04	nc	6.7E+01	nc
Ronnel	299-84-3	3.8E+03	nc	5.1E+04	nc	2.0E+02	nc
Rotenone	83-79-4	2.5E+02	nc	3.3E+03	nc	6.1E+01	nc
Selenious Acid	7783-00-8	3.9E+02	nc	5.8E+03	nc	1.0E+02	nc
Selenium	7782-49-2	3.9E+02	nc	5.8E+03	nc	5.0E+01	gws
Silver and compounds	7440-22-4	3.9E+02	nc	5.8E+03	nc	9.4E+01	nc
Simazine	122-34-9	4.5E+00	c	1.9E+02	c	4.0E+00	gws
Sodium azide	26628-22-8	3.1E+02	nc	4.7E+03	nc	8.0E+01	nc
Sodium diethyldithiocarbamate	148-18-5	2.0E+00	c	8.5E+01	c	2.9E-01	c
Strontium, stable	7440-24-6	4.7E+04	nc	7.0E+05	nc	1.2E+04	nc
Strychnine	57-24-9	1.9E+01	nc	2.5E+02	nc	5.9E+00	nc
Styrene	100-42-5	8.7E+02	Csat	8.7E+02	Csat	1.0E+02	gws
tert-butanol (tert-butyl alcohol)	75-65-0	1.4E+03	nc	2.1E+04	nc	3.6E+02	nc
2,3,7,8-Tetrachlorodibenzodioxin (TCDD/dioxin)	1746-01-6	5.2E-06	c	2.4E-04	c	3.0E-05	gws
1,2,4,5-Tetrachlorobenzene	95-94-3	1.7E+01	nc	1.5E+02	nc	9.8E-01	nc
1,1,1,2-Tetrachloroethane	630-20-6	2.1E+00	c	9.4E+01	c	5.7E-01	c
1,1,2,2-Tetrachloroethane	79-34-5	6.4E-01	c	2.8E+01	c	7.6E-02	c
Tetrachloroethylene (PCE)	127-18-4	2.5E+01	c	1.7E+02	Csat	5.0E+00	gws
2,3,4,6-Tetrachlorophenol	58-90-2	1.9E+03	nc	2.5E+04	nc	2.4E+02	nc
p,a,a,a-Tetrachlorotoluene	5216-25-1	2.1E-02	c	9.8E-01	c	5.5E-04	c
Tetrahydrofuran	109-99-9	2.0E+04	nc	1.0E+05	nc	3.4E+03	nc
Thallium and compounds	7440-28-0	7.8E-01	nc	1.2E+01	nc	2.0E+00	gws
Thiobencarb	28249-77-6	6.3E+02	nc	8.2E+03	nc	1.6E+02	nc
Thiocyanates	Various	1.6E+01	nc	2.3E+02	nc	4.0E+00	nc
Tin and compounds	7440-31-5	4.7E+04	nc	7.0E+05	nc	1.2E+04	nc
Toluene	108-88-3	8.2E+02	Csat	8.2E+02	Csat	1.0E+03	gws

CONTAMINANT	CAS No.	Residential Soil[1,3] (mg/kg)	Value Basis[4]	Industrial Soil[1,3] (mg/kg)	Value Basis[4]	Groundwater[2,3] (ug/L)	Value Basis[4]
Toluene-2,4-diamine	95-80-7	1.4E-01	c	5.7E+00	c	1.9E-02	c
Toluene-2,5-diamine	95-70-5	3.0E+00	c	1.3E+02	c	4.3E-01	c
Toluene-2,6-diamine	823-40-5	1.9E+03	nc	2.5E+04	nc	6.0E+02	nc
p-Toluidine	106-49-0	1.8E+01	c	7.7E+02	c	2.5E+00	c
Toxaphene	8001-35-2	4.9E-01	c	2.1E+01	c	3.0E+00	gws
1,2,4-Tribromobenzene	615-54-3	2.8E+02	nc	2.4E+03	nc	2.0E+01	nc
Tributyltin oxide (TBTO)	56-35-9	1.9E+01	nc	2.5E+02	nc	5.7E+00	nc
2,4,6-Trichloroaniline	634-93-5	1.9E+00	nc	2.5E+01	nc	4.0E-01	nc
1,2,4-Trichlorobenzene	120-82-1	2.4E+01	c	2.8E+02	nc	7.0E+01	gws
1,1,1-Trichloroethane	71-55-6	6.4E+02	Csat	6.4E+02	Csat	2.0E+02	gws
1,1,2-Trichloroethane	79-00-5	1.2E+00	c	6.8E+00	nc	5.0E+00	gws
Trichloroethylene (TCE)	79-01-6	1.0E+00	c	2.0E+01	nc	5.0E+00	gws
Trichlorofluoromethane	75-69-4	7.9E+02	nc	1.2E+03	Csat	1.1E+03	nc
2,4,5-Trichlorophenol	95-95-4	6.3E+03	nc	8.2E+04	nc	1.2E+03	nc
2,4,6-Trichlorophenol	88-06-2	4.9E+01	c	8.2E+02	nc	4.1E+00	c
2,4,5-Trichlorophenoxyacetic Acid	93-76-5	6.3E+02	nc	8.2E+03	nc	1.6E+02	nc
2-(2,4,5-Trichlorophenoxy) propionic acid	93-72-1	5.1E+02	nc	6.6E+03	nc	5.0E+01	gws
1,1,2-Trichloropropane	598-77-6	1.7E+02	nc	1.0E+03	nc	2.6E+01	nc
1,2,3-Trichloropropane	96-18-4	5.1E-03	c	1.1E+00	c	7.5E-04	c
1,2,3-Trichloropropene	96-19-5	7.8E-01	nc	3.3E+00	nc	6.2E-01	nc
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	76-13-1	9.1E+02	Csat	9.1E+02	Csat	1.0E+04	nc
1,2,4-Trimethylbenzene	95-63-6	2.2E+02	Csat	2.2E+02	Csat	5.6E+01	nc
1,3,5-Trimethylbenzene	108-67-8	1.8E+02	Csat	1.8E+02	Csat	6.0E+01	nc
Trimethyl phosphate	512-56-1	2.7E+01	c	1.1E+03	c	3.9E+00	c
1,3,5-Trinitrobenzene	99-35-4	2.2E+03	nc	3.2E+04	nc	5.9E+02	nc
Trinitrophenylmethylnitramine (Tetryl)	479-45-8	1.6E+02	nc	2.3E+03	nc	3.9E+01	nc
2,4,6-Trinitrotoluene	118-96-7	2.1E+01	c	5.1E+02	nc	2.5E+00	c

CONTAMINANT	CAS No.	Residential Soil[1,3] (mg/kg)	Value Basis[4]	Industrial Soil[1,3] (mg/kg)	Value Basis[4]	Groundwater[2,3] (ug/L)	Value Basis[4]
Vanadium and compounds	7440-62-2	4.6E+02	c	8.4E+03	nc	1.5E+02	nc
Vinclozolin	50471-44-8	7.6E+01	nc	9.8E+02	nc	2.1E+01	nc
Vinyl acetate	108-05-4	9.7E+02	nc	2.7E+03	Csat	4.1E+02	nc
Vinyl bromide	593-60-2	2.8E-01	c	1.2E+01	c	3.7E-01	c
Vinyl chloride	75-01-4	6.1E-02	c	1.8E+01	c	2.0E+00	gws
Warfarin	81-81-2	1.9E+01	nc	2.5E+02	nc	5.6E+00	nc
Xylenes	1330-20-7	2.6E+02	Csat	2.6E+02	Csat	1.0E+04	gws
Zinc and Compounds	7440-66-6	2.3E+04	nc	3.5E+05	nc	6.0E+03	nc
Zinc phosphide	1314-84-7	2.3E+01	nc	3.5E+02	nc	6.0E+00	nc
Zineb	12122-67-7	3.2E+03	nc	4.1E+04	nc	9.9E+02	nc

Notes

[1]Where appropriate, the residential and industrial soil values consider ingestion and dermal exposure to soil and inhalation exposure to contaminants moving from soil to ambient air from volatilization and/or particulate emission.

[2]Groundwater standards promulgated under 47CSR12 are provided, where available. Standards that are unavailable under 47CSR12 are based on a risk-based methodology that considers ingestion, dermal, and inhalation exposure arising from the domestic use of groundwater.

[3]The concentrations in this table shall be applied where the exposure pathways described in footnotes 1 and 2 are the major contributors to risks identified in the site assessment. If other exposure pathways are identified, the acceptable concentrations shall be determined only in consultation with the Secretary, considering all exposure pathways, and all other requirements of the regulations.

[4]Basis of standard: c – cancer effect; nc – noncancer effect; max – calculated risk-based concentration exceeds maximum possible contaminant level of $1x10^6$ mg/kg; Csat – calculated risk-based concentration exceeds residual saturation level; gws – West Virginia Groundwater Quality Standards from 47CSR12.

*Lead – Residential soil based on Revised Interim Soil Lead Guidance for CERCLA Sites and RCRA Corrective Action Facilities (July 1994), U.S. EPA OSWER Directive 9355.4-12. Industrial soil based on the U.S. EPA's *Blood Lead Concentrations of U.S. Adult Females: Summary Statistics from Phases 1 and 2 of the National Health and Nutrition Evaluation Survey (NHANES III)* (2002) and *Lead at Superfund Sites: Frequent Questions from Risk Assessors on the Adult Lead Methodology* (2018).