

PROPOSED RULEMAKING

ENVIRONMENTAL QUALITY BOARD

[25 PA. CODE CH. 250]

Administration of the Land Recycling Program

The Environmental Quality Board (Board) proposes to amend Chapter 250 (relating to administration of Land Recycling Program). The proposed rulemaking is intended to update the Statewide health standards based on current science, to correct errors and omissions, and to state how to provide to the Department of Environmental Protection (Department) information about notification that remediators are required to provide to municipalities and the public.

This proposed rulemaking was adopted by the Board at its meeting of February 18, 2014.

A. *Effective Date*

This proposed rulemaking will go into effect upon final-form publication in the *Pennsylvania Bulletin*.

B. *Contact Persons*

For further information contact Troy Conrad, Program Manager, Land Recycling Program, P. O. Box 8471, Rachel Carson State Office Building, Harrisburg, PA 17105-8471, (717) 783-7816; or Robert "Bo" Reiley, Assistant Counsel, Bureau of Regulatory Counsel, Rachel Carson State Office Building, P. O. Box 8464, Harrisburg, PA 17105-8464, (717) 787-7060. Information regarding submitting comments on this proposed rulemaking appears in Section J of this preamble. Persons with a disability may use the AT&T Relay Service by calling (800) 654-5984 (TDD users) or (800) 654-5988 (voice users). This proposed rulemaking is available electronically on the Department's web site at www.dep.state.pa.us (DEP Search/Keyword: Environmental Quality Board).

C. *Statutory Authority*

The proposed rulemaking is being made primarily under the authority of sections 104(a) and 303(a) of the Land Recycling and Environmental Remediation Standards Act (act) (35 P. S. §§ 6026.104(a) and 6026.303(a)). Section 303(a) of the act directs the Board to promulgate Statewide health standards for regulated substances for each environmental medium, and the methods used to calculate the standards. Section 104(a) of the act authorizes the Board to adopt and amend regulations that may be needed to implement the act.

D. *Background and Purpose*

Section 250.11 (relating to periodic review of MSCs) requires the Department to review new scientific information that is used to calculate Medium-Specific Concentrations (MSC) used to demonstrate the Statewide health standard, and propose appropriate changes at least every 36 months. These changes serve the public as they are based on the most up-to-date health and scientific information. In addition, the changes in requirements serve the public and regulated community as they provide clear information on what is required to clean up contaminated sites. The proposed rulemaking was reviewed by the Cleanup Standards Scientific Advisory Board (CSSAB). The proposed rulemaking was discussed and supported

unanimously, with one exception and one comment, at the CSSAB meeting on October 23, 2013.

E. *Summary of Regulatory Requirements*

§ 250.5. *Public notice by applicant*

Proposed amendments to this section would add the requirement that documented proof of the mailing of municipal notices and the arranging for publication of newspaper notices that are required under the act be submitted at the time the Notice of Intent to Remediate (NIR), plan or report is submitted to the Department. This will assure that the municipality and the public are notified of the NIR, plan or report in a timely fashion.

§ 250.7. *Fees*

Proposed amendments to this section would clarify that the Department may waive the fee for resubmission of a plan or report if the resubmission is related to correcting minor administrative or technical deficiencies.

§ 250.301. *Scope*

Proposed amendments to this section would add certain regulated substances to the list of substances classified as mutagens based on recently published scientific information.

§ 250.304. *MSCs for groundwater*

Prior to the January 2011 edition of the Drinking Water Standards and Health Advisories, the United States Environmental Protection Agency (EPA) Office of Water Publication No. EPA 820-R-11-002 (January 2011), when the EPA published both a Lifetime Health Advisory Level (HAL) and a 10^{-4} Cancer Risk concentration for a chemical, the Lifetime HAL concentration included an adjustment for cancer risk. Starting with the January 2011 edition of the Drinking Water Standards and Health Advisories, the EPA changed its Cancer Classification system and started publishing Lifetime HALs that did not include adjustments for cancer risk, even when a 10^{-4} Cancer Risk concentration was also published.

Proposed amendments to § 250.304(c) (relating to MSCs for groundwater) would clarify that a published Lifetime HAL concentration may not always be used as the MSC for substances that are designated as likely to be carcinogenic, if the Lifetime HAL does not include an adjustment for cancer risk. For these substances, a numeric value would be calculated based on the equations in §§ 250.306 and 250.307 (relating to ingestion numeric values; and inhalation numeric values). In that situation, the MSC would be the lower of the Lifetime HAL and the calculated value.

Proposed amendments to § 250.304(g) would include additional references regarding the determination of solubility values.

§ 250.306. *Ingestion numeric values*

Due to new information about the toxicology of trichloroethylene (TCE), proposed amendments to this section would add values for oral cancer slope factors for TCE and revise the formula for calculating the MSC for TCE.

Due to new information published by the EPA in the *Exposure Factors Handbook 2011 Edition*, EPA/600/R-09/052F, the average body weight and the associated ingestion factors would change.

§ 250.307. *Inhalation numeric values*

Due to new information relating to the toxicology of TCE, proposed amendments to this section would add values for inhalation unit risk for TCE and make changes to the formula for calculating the MSC for TCE.

Appendix A, Tables 1—6

Proposed amendments to Tables 1—4 would update the MSC for certain regulated substances. Information also would be updated on the “Physical and Toxicological Properties” tables and the “Threshold of Regulation Compounds” table.

F. Benefits, Costs and Compliance

Benefits

Consistent with § 250.11, the Department needs to update MSCs on a timely basis to assure that environmental response actions at contaminated sites are remediated using current scientific research and principles. This will ensure the protection of public health and the environment where it has been determined that lower MSCs for regulated substances are protective. This will also avoid unnecessary expense for those remediating property where it has been determined that higher MSCs for regulated substances are protective.

Compliance costs

This proposed rulemaking will affect owners, operators and purchasers of properties and facilities who volunteer, or are required to perform, remediation of contaminated sites. The proposed amendments are not expected to add any significant costs to the cleanup of contaminated sites under the act. Some cleanup standard concentration values will be lower and some will be higher. The net cost should be negligible.

Compliance Assistance Plan

The Department will disseminate information concerning this rulemaking using the Department’s web site and e-mails to environmental consultants.

Paperwork requirements

Forms or reports are not required beyond those established by the act.

G. Pollution Prevention (if applicable)

During remediation of a contaminated site, potential sources of pollution are often removed to attain the standards in the act, thus eliminating or minimizing the potential for continued migration.

H. Sunset Review

These regulations will be reviewed in accordance with the sunset review schedule published by the Department to determine whether the regulations effectively fulfill the goals for which they were intended.

I. Regulatory Review

Under section 5(a) of the Regulatory Review Act (71 P.S. § 745.5(a)), on April 28, 2014, the Department submitted a copy of this proposed rulemaking and a copy of a Regulatory Analysis Form to the Independent Regulatory Review Commission (IRRC) and to the Chairpersons of the House and Senate Environmental Resources and Energy Committees. A copy of this material is available to the public upon request.

Under section 5(g) of the Regulatory Review Act, IRRC may convey any comments, recommendations or objections to the proposed rulemaking within 30 days of the close of the public comment period. The comments, recom-

mendations or objections must specify the regulatory review criteria which have not been met. The Regulatory Review Act specifies detailed procedures for review, prior to final publication of the rulemaking, by the Department, the General Assembly and the Governor of comments, recommendations or objections raised.

J. Public Comments

Interested persons are invited to submit written comments, suggestions or objections regarding the proposed rulemaking to the Board. Comments, suggestions or objections must be received by the Board by June 17, 2014. In addition to the submission of comments, interested persons may also submit a summary of their comments to the Board. The summary may not exceed one page in length and must also be received by the Board by June 17, 2014. The one-page summary will be distributed to the Board and available publicly prior to the meeting when the final-form rulemaking will be considered.

Comments, including the submission of a one-page summary of comments, may be submitted to the Board online, by mail or express mail as follows. Comments may be submitted online to the Board by accessing the Board’s Regulatory Comment System at <http://www.ahs.dep.pa.gov/RegComments>. If an acknowledgement of comments submitted online is not received by the sender within 2 business days, the comments should be retransmitted to the Board to ensure receipt. Written comments should be mailed to the Environmental Quality Board, P. O. Box 8477, Harrisburg, PA 17105-8477. Express mail should be sent to the Environmental Quality Board, Rachel Carson State Office Building, 16th Floor, 400 Market Street, Harrisburg, PA 17101-2301. Comments submitted by facsimile will not be accepted.

E. CHRISTOPHER ABRUZZO,
Chairperson

(Editor’s Note: See 44 Pa.B. 2975 (May 17, 2014) for corrective amendments to §§ 250.306 and 250.307 and Appendix A, Tables 1, 3b, 5a and 5b).

Fiscal Note: 7-486. No fiscal impact; (8) recommends adoption.

Annex A

TITLE 25. ENVIRONMENTAL PROTECTION

PART I. DEPARTMENT OF ENVIRONMENTAL PROTECTION

Subpart D. ENVIRONMENTAL HEALTH AND SAFETY

ARTICLE VI. GENERAL HEALTH AND SAFETY

CHAPTER 250. ADMINISTRATION OF LAND RECYCLING PROGRAM

Subchapter A. GENERAL PROVISIONS

§ 250.5. Public notice by applicant.

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(e) Upon receipt of notice of a request for a nonuse aquifer designation, the municipality and community water supplier shall have 45 days to indicate to the Department and the mediator any information relevant to the requirements of § 250.303.

(f) Documented proof of the mailing of the municipal notices and arranging for the publication of newspaper notices, required under sections 302(e), 303(h), 304(n) and 305(c) of the act (35 P. S. §§ 6026.302(e), 6026.303(h), 6026.304(n) and 6026.305(c)), shall be submitted at the same time the NIR, plan or report is submitted to the Department. A copy of the letter to the municipality with a United States Postal Service certified mail receipt, PS Form No. 3800, will be accepted as proof of mailing. A copy of the published text of the newspaper notice and the publication date will be accepted as proof of arranging for publication.

§ 250.7. Fees.

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(b) The Department will disapprove a plan or report that is submitted without the appropriate fee.

(c) The Department may waive the fee for resubmission of a plan or report if the resubmission is related to correcting minor administrative or technical deficiencies. The fee waiver is limited to the following:

(1) One time for each plan or report to correct administrative deficiencies if the corrections are made within 15 days of notice of the deficiencies by the Department.

(2) One time for each plan or report to correct technical deficiencies if the corrections are made within 60 days of notice of the deficiencies by the Department.

Subchapter C. STATEWIDE HEALTH STANDARDS

§ 250.301. Scope.

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(b) This subchapter sets forth generic Statewide health standards for regulated substances determined by the EPA to be mutagens. Tables 1—4 contain Statewide health standards based upon the methodology for mutagens in §§ 250.306 and 250.307 (relating to ingestion numeric values; and inhalation numeric values) for the following substances classified as mutagens:

<i>Regulated Substance</i>	<i>CAS Number</i>
Acrylamide	79-06-1
Benzo[a]anthracene	56-55-3
Benzidine	92-87-5
Benzo[a]pyrene	50-32-8
Benzo[b]fluoranthene	205-99-2
Benzo[k]fluoranthene	207-08-9
Chromium (VI)	18540-29-9
Chrysene	218-01-9
Dibenzo[a,h]anthracene	53-70-3
Dibromo-3-chloropropane, 1,2-	96-12-8
Dichloromethane	75-09-2
Indeno[1,2,3-cd]pyrene	193-39-5
Methylene bis(2-chloroaniline), 4,4'-	101-14-4
Nitrosodiethylamine, N-	55-18-5
Nitrosodimethylamine, N-	62-75-9
Nitroso-N-ethylurea, N-	759-73-9
Trichloroethylene (TCE)	79-01-6
Trichloropropane, 1,2,3-	96-18-4
Vinyl chloride	75-01-4

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§ 250.304. MSCs for groundwater.

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(c) The MSCs for regulated substances contained in groundwater in aquifers used or currently planned to be used for drinking water or for agricultural purposes [**is the MCL**] are the MCLs as established by the Department or the EPA [**as established**] in § 109.202 (relating to [**state**] State MCLs, MRDLs and treatment technique requirements) [**and Health Advisory Levels (HALs) set forth in Drinking Water Standards and Health Advisories, EPA Office of Water Publication No. EPA 822-R-09-011 (October, 2009)**]. For [**a regulated substance**] regulated substances where no MCL has been established, the [**MSC is the lifetime HAL for that compound.**] MSCs are the Lifetime Health Advisory Levels (HALs) set forth in Drinking Water Standards and Health Advisories (DWSHA), EPA Office of Water Publication No. EPA 822-S-12-001 (April 2012 or as revised), except for substances designated in the DWSHA with cancer descriptor (L) “Likely to be carcinogenic to humans” or (L/N) “Likely to be carcinogenic above a specific dose but not likely to be carcinogenic below that dose because a key event in tumor formation does not occur below that dose.” New or revised MCLs or HALs promulgated by the Department or the EPA shall become effective immediately for any demonstration of attainment completed after the date the new or revised MCLs or HALs become effective.

(1) For [**a regulated substance**] regulated substances where neither an MCL nor a lifetime HAL has been established and for substances designated in the DWSHA with cancer descriptor (L) or (L/N), the [**MSC is**] MSCs are the lowest concentration calculated using the appropriate residential and nonresidential exposure assumptions and the equations in §§ 250.306 and 250.307 (relating to ingestion numeric values; and inhalation numeric values). [**New or revised MCLs or HALs promulgated by the Department or the EPA shall become effective immediately for any demonstration of attainment completed after the date the new or revised MCLs or HALs become effective.**]

(2) If the Lifetime HAL for a substance designated in the DWSHA with cancer descriptor (L) or (L/N) is less than the MSC calculated paragraph (1), then the Lifetime HAL shall be the MSC.

(d) For regulated substances contained in aquifers not used or currently planned to be used, the MSCs in Appendix A, Tables 1 and 2 are calculated by the following:

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(g) The references referred to in subsection (f) are:

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(11) Mabey, et al. 1982, *Aquatic Fate Process Data for Organic Priority Pollutants*, SRI. EPA Contract Nos. 68-01-3867, 68-03-2981.

(12) Yalkowsky, S.H. and R.M. Dannenfelser. 1992. *Aquasol Database of Aqueous Solubility*. Version 5. College of Pharmacy, University of Arizona—Tucson, AZ. PC Version.

(13) Estimate from Log K_{ow} .

(14) Bennett, S.R., J.M. Bane, P.J. Benford and R.L. Pyatt. 1984. *Environmental Hazards of Chemical Agent Simulants*. CRDC-TR-84055, Aberdeen Proving Ground, MD.

(16) Monteil-Rivera, F., C. Groom and J. Hawari. 2003. Sorption and Degradation of Octahydro-1,3,5,7-Tetranitro-1,3,5,7-Tetrazocine in Soil. *Environ. Sci. Technol.* 37:3878-3884.

(15) Munro, N.B. et al. 1999. The Sources, Fate, and Toxicity of Chemical Warfare Agent Degradation Products. *Environ. Health Perspect.* 107(12): 933-4.

(17) Seidell, A. 1941. *Solubilities of Organic Compounds*. New York, NY. D. Van Nostrand Co. Inc.

§ 250.306. Ingestion numeric values.

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(b) For a regulated substance which is a carcinogen, the ingestion numeric value for that substance was calculated using the appropriate residential or nonresidential exposure assumptions from subsection (d) according to the following equations:

(1) For regulated substances not identified as a mutagen in § 250.301(b) (relating to scope):

$$MSC = \frac{TR \times AT_c \times 365 \text{ days/year}}{CSF_o \times Abs \times EF \times IFadj \times CF}$$

(2) For regulated substances identified as a mutagen, except for vinyl chloride and trichloroethylene, in § 250.301(b):

$$MSC = \frac{TR \times AT_c \times 365 \text{ days/year}}{CSF_o \times Abs \times EF \times AIFadj \times CF}$$

(3) For vinyl chloride:

$$MSC = \frac{TR}{[CSF_o \times Abs \times EF \times IFadj \times CF / (AT_c \times 365 \text{ days/year})] + (CSF_o \times Abs \times IR_c \times CF/BW_c)}$$

(4) For trichloroethylene:

$$MSC = \frac{TR \times AT_c \times 365 \text{ days/yr}}{(CSF_{o_k} \times AIFadj + CSF_{o_1} \times IFadj) \times Abs \times EF \times CF}$$

(c) For a regulated substance that has both an oral reference dose and an oral cancer slope factor, the ingestion numeric value is the lower of the two numbers as calculated by the equations in subsections (a) and (b).

(d) The default exposure assumptions used to calculate the ingestion numeric values are as follows:

Term	Residential		Nonresidential (Onsite Worker)	
	Systemic ¹	Carcinogens ^{2,6}		
THQ	Target Hazard Quotient	1	N/A	1
RfD _o	Oral Reference Dose (mg/kg-day)	Chemical-specific	N/A	Chemical-specific
BW	Body Weight (kg) Soil Groundwater	15 [70] 80	N/A	[70] 80 [70] 80
AT _{nc}	Averaging Time for systemic toxicants (yr) Soil Groundwater	6 30	N/A N/A	25 25
Abs	Absorption (unitless) ³	1	1	1
EF	Exposure Frequency (d/yr) Soil Groundwater	250 350	250 350	180 250
ED	Exposure Duration (yr) Soil Groundwater	6 30	N/A N/A	25 25
IngR	Ingestion Rate Soil (mg/day) GW (L/day)	100 2	N/A N/A	50 1
CF	Conversion Factor Soil (kg/mg) GW (unitless)	1 x 10 ⁻⁶ 1	1 x 10 ⁻⁶ 1	1 x 10 ⁻⁶ 1
TR	Target Risk	N/A	1 x 10 ⁻⁵	1 x 10 ⁻⁵
CSF _o	Oral Cancer Slope Factor (mg/kg-day) ⁻¹	N/A	Chemical-specific	Chemical-specific

Term		Residential		Nonresidential (Onsite Worker)
		Systemic ¹	Carcinogens ^{2,6}	
AT _c	Averaging Time for carcinogens (yr)	N/A	70	70
[Ifadj ⁴] IFadj ⁴	Ingestion Factor Soil (mg-yr/kg-day) GW (L-yr/kg day)	N/A	[57.1] 55 [1.1] 1	[17.9] 15.6 [0.4] 0.3
AIFadj ⁵	Combined Age-Dependent Adjustment Factor and Ingestion Factor Soil (mg-yr/kg-day) GW (L-yr/kg-day)	N/A	[245] 241 [3.39] 3.23	N/A
CSF _{ok} CSF _{o1}	TCE oral cancer slope factor for kidney cancer (mg/kg/day) ⁻¹ TCE oral cancer slope factor for non-Hodgkin lymphoma and liver cancer (mg/kg/day) ⁻¹		9.3 x 10 ⁻³ 3.7 x 10 ⁻²	
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§ 250.307. Inhalation numeric values.

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(b) For a regulated substance which is a carcinogen, the following apply:

(1) For a volatile compound, the numeric value for inhalation from soil was calculated using the appropriate residential or nonresidential exposure assumptions from subsection (d) according to the following equation using TF for volatiles:

$$MSC = \frac{TR \times AT_c \times 365 \text{ days/year} \times 24 \text{ hr/day} \times TF}{IUR \times ET \times EF \times ED \times CF}$$

(2) For a regulated substance attached to particulates, the numeric value for inhalation from soil was calculated using the appropriate residential or nonresidential exposure assumptions from subsection (d) according to the equation in paragraph (1) using TF for particulates.

(3) For a regulated substance identified in § 250.301(b) (relating to scope) as a mutagen, except for vinyl chloride **and trichloroethylene**, the numeric value for inhalation from soil was calculated using the appropriate residential or nonresidential exposure assumptions from subsection (d) according to the following equation using the TF for volatiles **or particulates**:

$$MSC = \frac{TR \times AT_c \times 365 \text{ days/year} \times 24 \text{ hr/day} \times TF}{IUR \times ET \times EF \times AED \times CF}$$

(4) For vinyl chloride, the numeric value for inhalation from soil was calculated using the appropriate residential or nonresidential exposure assumptions from subsection (d) according to the following equation using the TF for volatiles:

$$MSC = \frac{TR}{[IUR \times ET \times EF \times ED \times CF / (AT_c \times 365 \text{ days/yr} \times 24 \text{ hr/d} \times TF)] + (IUR \times CF \times TF)}$$

(5) For trichloroethylene, the numeric value for inhalation from soil was calculated using the appropriate residential or nonresidential exposure assumptions from subsection (d) according to the following equation using the TF for volatiles:

$$MSC = \frac{TR \times AT_c \times 365 \text{ days/yr} \times 24 \text{ hr/day} \times TF}{(IUR_k \times AED + IUR_1 \times ED) \times ET \times EF \times CF}$$

(c) For a regulated substance which is both a systemic toxicant and a carcinogen, the inhalation numeric value is the lower of the two numbers as calculated by the equations in subsections (a) and (b).

(d) The default exposure assumptions used to calculate the inhalation numeric values for soil are as follows:

Term		Residential		Nonresidential (Onsite Worker)
		Systemic ¹	Carcinogens ²	
THQ	Target Hazard Quotient	1	N/A	1
RfCi	Inhal. Reference Concentration (mg/m ³)	Chemical-specific	N/A	Chemical-specific
[ATnc] AT _{nc}	Averaging Time for systemic toxicants (yr)	30	N/A	25
TF	Transport Factor (mg/kg)/(mg/m ³) Volatilization ³ Particulate ⁴	Chemical-specific 1 x 10 ¹⁰	Chemical-specific 1 x 10 ¹⁰	Chemical-specific 1 x 10 ¹⁰
ET	Exposure Time (hr/day)	24	24	8

Term		Residential		Nonresidential (Onsite Worker)
		Systemic ¹	Carcinogens ²	
EF	Exposure Frequency ⁵ (d/yr)	250	250	180
ED	Exposure Duration (yr)	30	[N/A] 30	25
CF	Conversion Factor	[1,000 µg/mg] N/A	1,000 µg/mg	1,000 µg/mg
TR	Target Risk	N/A	1 x 10 ⁻⁵	1 x 10 ⁻⁵
IUR	Inhalation Unit Risk (µg/m ³) ⁻¹	N/A	Chemical-specific	Chemical-specific
[AT _c] AT _c	Averaging Time for carcinogens (yr)	N/A	70	70
AED	Combined Age-Dependent Adjustment Factor and Exposure Duration (yr) ⁶	N/A	76	N/A
IUR _k	TCE inhalation unit risk for kidney cancer (µg/m ³) ⁻¹		1 x 10 ⁻⁶	
IUR ₁	TCE inhalation unit risk for both non-Hodgkin lymphoma and liver cancer (µg/m ³) ⁻¹		3 x 10 ⁻⁶	
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(g) For a regulated substance which is a carcinogen and is a volatile compound, the numeric value for the inhalation of volatiles from groundwater shall be calculated by using the appropriate residential or nonresidential exposure assumptions from subsection (h) according to the following equations:

(1) For regulated substances not identified as a mutagen in § 250.301(b):

$$MSC = \frac{TR \times AT_c \times 365 \text{ days/year} \times 24 \text{ hr/day}}{IUR \times ET \times EF \times ED \times TF \times CF}$$

(2) For regulated substances identified as a mutagen, except for vinyl chloride **and trichloroethylene**, in § 250.301(b):

$$MSC = \frac{TR \times AT_c \times 365 \text{ days/year} \times 24 \text{ hr/day}}{IUR \times ET \times EF \times AED \times TF \times CF}$$

(3) For vinyl chloride:

$$MSC = \frac{TR}{[(IUR \times ET \times EF \times ED \times TF \times CF) / (AT_c \times 365 \text{ days/year} \times 24 \text{ hr/day})] + (IUR \times TF \times CF)}$$

(4) For trichloroethylene:

$$MSC = \frac{TR \times AT_c \times 365 \text{ days/yr} \times 24 \text{ hr/day}}{(IUR_k \times AED + IUR_1 \times ED) \times ET \times EF \times TF \times CF}$$

(h) The default exposure assumptions used to calculate the inhalation numeric values for the inhalation of volatiles from groundwater are as follows:

Term		Residential		Nonresidential (Onsite Worker)
		Systemic ¹	Carcinogens ²	
THQ	Target Hazard Quotient	1	N/A	1
RfCi	Inhal. Reference Concentration (mg/m ³)	Chemical-specific	N/A	Chemical-specific
[AT _{nc}] AT _{nc}	Averaging Time for systemic toxicants (yr)	30	N/A	25
ET	Exposure Time (hr/day)	24	24	8
EF	Exposure Frequency (d/yr)	350	350	250
ED	Exposure Duration (yr)	30	30	25
TF	Transfer Factor (L/m ³) ³	0.5	0.5	0.5
CF	Conversion Factor	N/A	1,000 µg/mg	1,000 µg/mg
TR	Target Risk	N/A	1 x 10 ⁻⁵	1 x 10 ⁻⁵
IUR	Inhalation Unit Risk (µg/m ³) ⁻¹	N/A	Chemical-specific	Chemical-specific

PROPOSED RULEMAKING

<i>Term</i>		<i>Residential</i>		<i>Nonresidential (Onsite Worker)</i>
		<i>Systemic¹</i>	<i>Carcinogens²</i>	
[AT _c] AT _c	Averaging Time for carcinogens (yr)	N/A	70	70
AED	Combined Age-Dependent adjustment Factor and Exposure Duration (yr) ⁴	N/A	76	N/A
IUR _k	TCE inhalation unit risk for kidney cancer (µg/m³)⁻¹		1 x 10⁻⁶	
IUR ₁	TCE inhalation unit risk for both non-Hodgkin lymphoma and liver cancer (µg/m³)⁻¹		3 x 10⁻⁶	
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APPENDIX A
TABLE 1—MEDIUM-SPECIFIC CONCENTRATIONS (MSCs) FOR ORGANIC REGULATED SUBSTANCES IN GROUNDWATER

REGULATED SUBSTANCE	CASRN	USED AQUIFERS						NON-USE AQUIFERS					
		TDS ≤ 2500			TDS > 2500			R			NR		
		R	NR	S	R	NR	S	R	NR	S	R	NR	S
ACENAPHTHENE	83-32-9	[2,200] 2,500	G	3,800	S	3,800	S	3,800	S	3,800	S	3,800	S
ACENAPHTHYLENE	208-96-8	[2,200] 2,500	G	[6,100] 7,000	G	16,000	S	16,000	S	16,000	S	16,000	S
ACEPHATE	30560-19-1	[76] 84	G	[300] 390	G	[7,600] 8,400	G	[30,000] 39,000	G	[76] 84	G	[300] 390	G
ACETALDEHYDE	75-07-0	19	N	79	N	1,900	N	7,900	N	19	N	79	N
ACETONE	67-64-1	[33,000] 38,000	G	[92,000] 110,000	G	[3,300,000] 3,800,000	G	[9,200,000] 11,000,000	G	[330,000] 380,000	G	[920,000] 1,100,000	G
ACETONITRILE	75-05-8	130	N	530	N	13,000	N	53,000	N	1,300	N	5,300	N
ACETOPHENONE	98-86-2	[3,700] 4,200	G	[10,000] 12,000	G	[370,000] 420,000	G	[1,000,000] 1,200,000	G	[3,700] 4,200	G	[10,000] 12,000	G
ACETYLAMINOFLUORENE, 2- (2AAF)	53-96-3	[0.17] 0.19	G	[0.68] 0.89	G	[17] 19	G	[68] 89	G	[170] 190	G	[680] 890	G
ACROLEIN	107-02-8	0.042	N	0.18	N	4.2	N	18	N	0.42	N	1.8	N
ACRYLAMIDE	79-06-1	[0.038] 0.19	N	[0.19] 2.5	N	[3.8] 19	N	[19] 250	N	[0.038] 0.19	N	[0.19] 2.5	N
ACRYLIC ACID	79-10-7	2.1	N	8.8	N	210	N	880	N	2.10	N	880	N
ACRYLONITRILE	107-13-1	0.72	N	3.7	N	72	N	370	N	72	N	370	N
ALACHLOR	15972-60-8	2	M	2	M	200	M	200	M	2	M	2	M
ALDICARB	116-06-3	3	M	3	M	300	M	300	M	3,000	M	3,000	M
ALDICARB SULFONE	1646-88-4	2	M	2	M	200	M	200	M	2	M	2	M
ALDICARB SULFOXIDE	1646-87-3	4	M	4	M	400	M	400	M	4	M	4	M
ALDRIN	309-00-2	[0.039] 0.43	G	[0.15] 0.2	G	[3.9] 4.3	G	[15] 20	G	20	S	20	S
ALLYL ALCOHOL	107-18-6	[0.63] 0.21	N	[2.6] 0.88	N	[63] 21	N	[260] 88	N	[63] 21	N	[260] 88	N
AMETRYN	834-12-8	60	H	60	H	6,000	H	6,000	H	60	H	60	H
AMINOBIHENYL, 4-	92-67-1	[0.031] 0.035	G	[0.12] 0.16	G	[3.1] 3.5	G	[12] 16	G	[31] 35	G	[120] 160	G
AMITROLE	61-82-5	[0.7] 0.78	G	[2.8] 3.6	G	[70] 78	G	[280] 360	G	[700] 780	G	[2,800] 3,600	G
AMMONIA	7664-41-7	30,000	H	30,000	H	3,000,000	H	3,000,000	H	30,000	H	30,000	H
AMMONIUM SULFAMATE	7773-06-0	2,000	H	2,000	H	200,000	H	200,000	H	2,000	H	2,000	H
ANILINE	62-53-3	2.1	N	8.8	N	210	N	880	N	2.1	N	8.8	N
ANTHRACENE	120-12-7	66	S	66	S	66	S	66	S	66	S	66	S
ATRAZINE	1912-24-9	3	M	3	M	300	M	300	M	3	M	3	M
AZINPHOS-METHYL (GUTHION)	86-50-0	[110] 130	G	[310] 350	G	[11,000] 13,000	G	[31,000] 32,000	G	[110] 130	G	[310] 350	G
BAYGON (PROPOXUR)	114-26-1	3	H	3	H	300	H	300	H	3,000	H	3,000	H
BENOMYL	17804-35-2	[1,800] 2,000	[G] S	2,000	S	2,000	S	2,000	S	[1,800] 2,000	[G] S	2,000	S

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REGULATED SUBSTANCE	CASRN	USED AQUIFERS						NON-USE AQUIFERS					
		TDS ≤ 2500			TDS > 2500			R			NR		
		R	NR	H	R	NR	H	R	NR	H	R	NR	
BENTAZON	25057-89-0	200	200	H	20,000	H	20,000	H	20,000	H	200	H	200
BENZENE	71-43-2	5	5	M	500	M	500	M	500	M	500	M	500
BENZIDINE	92-87-5	[0.00093] 0.00098	[0.011] 0.015	G	[0.093] 0.098	G	[1.1] 1.5	G	[0.93] 0.98	G	[11] 15	G	[11] 15
BENZO[A]ANTHRACENE	56-55-3	[0.29] 0.32	[3.6] 4.9	G	11	S	11	S	11	S	11	S	11
BENZO[A]PYRENE	50-32-8	0.2	0.2	M	3.8	S	3.8	S	3.8	S	3.8	S	3.8
BENZO[B]FLUORANTHENE	205-99-2	[0.29] 0.31	1.2	S	1.2	S	1.2	S	1.2	S	1.2	S	1.2
BENZO[G]HUIPERYLENE	191-24-2	0.26	0.26	S	0.26	S	0.26	S	0.26	S	0.26	S	0.26
BENZO[K]FLUORANTHENE	207-08-9	0.55	0.55	S	0.55	S	0.55	S	0.55	S	0.55	S	0.55
BENZOIC ACID	65-85-0	[150,000] 170,000	[410,000] 470,000	G	2,700,000	S	2,700,000	S	[150,000] 170,000	G	[410,000] 470,000	G	[410,000] 470,000
BENZOTRICHLORIDE	98-07-7	[0.05] 0.056	[0.2] 0.26	G	[5.1] 5.6	G	[20] 26	G	[51] 56	G	[200] 260	G	[200] 260
BENZYL ALCOHOL	100-51-6	[18,000] 4,200	[51,000] 12,000	G	[1,800,000] 420,000	G	[5,100,000] 1,200,000	G	[18,000] 4,200	G	[51,000] 12,000	G	[51,000] 12,000
BENZYL CHLORIDE	100-44-7	1	5.1	N	100	N	510	N	100	N	510	N	510
BETA PROPIOLACTONE	57-57-8	0.012	0.063	N	1.2	N	6.3	N	0.12	N	0.63	N	0.63
BHC, ALPHA-	319-84-6	[0.1] 0.12	[0.41] 0.54	G	[10] 12	G	[41] 54	G	[100] 120	G	[410] 540	G	[410] 540
BHC, BETA-	319-85-7	[0.37] 0.41	[1.4] 1.9	G	[37] 41	G	100	S	100	S	100	S	100
BHC, GAMMA (LINDANE)	58-89-9	0.2	0.2	M	20	M	20	M	200	M	200	M	200
BIPHENYL, 1,1-	92-52-4	[1,800] 91	[5,100] 430	G	7,200	S	7,200	S	7,200	S	7,200	S	7,200
BIS(2-CHLOROETHOXY)METHANE	111-91-1	[110] 130	[310] 350	G	[11,000] 13,000	G	[31,000] 35,000	G	[110] 130	G	[310] 350	G	[310] 350
BIS(2-CHLOROETHYL)ETHER	111-44-4	0.15	0.76	N	15	N	76	N	15	N	76	N	76
BIS(2-CHLORO-ISOPROPYL)ETHER	108-60-1	300	300	H	30,000	H	30,000	H	30,000	H	30,000	H	30,000
BIS(CHLOROMETHYL)ETHER	542-88-1	0.00079	0.004	N	0.079	N	0.4	N	0.079	N	0.4	N	0.4
BIS[2-ETHYLHEXYL] PHTHALATE	117-81-7	6	6	M	290	S	290	S	290	S	290	S	290
BISPHENOL A	80-05-7	[1,800] 2,100	[5,100] 5,800	G	120,000	S	120,000	S	120,000	S	120,000	S	120,000
BROMACIL	314-40-9	70	70	H	7,000	H	7,000	H	70	H	70	H	70
BROMOCHLOROMETHANE	74-97-5	90	90	H	9,000	H	9,000	H	90	H	90	H	90
BROMODICHLOROMETHANE (THM)	75-27-4	80	80	M	8,000	M	8,000	M	80	M	80	M	80
BROMOMETHANE	74-83-9	10	10	H	1,000	H	1,000	H	1,000	H	1,000	H	1,000
BROMOXNYL	1689-84-5	[730] 830	[2,000] 2,300	G	[73,000] 83,000	G	130,000	S	[730] 830	G	[2,000] 2,300	G	[2,000] 2,300
BROMOXNYL OCTANOATE	1689-99-2	80	80	S	80	S	80	S	80	S	80	S	80

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REGULATED SUBSTANCE	CASRN	USED AQUIFERS						NON-USE AQUIFERS					
		TDS ≤ 2500			TDS > 2500			R			NR		
		R	NR	G	R	NR	G	R	NR	G	R	NR	G
BUTADIENE, 1,3-	106-99-0	[0.19] 0.21	[0.76] 1	G	[19] 21	G	[76] 100	G	[19] 21	G	[76] 100	G	
BUTYL ALCOHOL, N-	71-36-3	[3,700] 4,200	[10,000] 12,000	G	[370,000] 420,000	G	[1,000,000] 1,200,000	G	[37,000] 42,000	G	[100,000] 120,000	G	
BUTYLATE	2008-41-5	400	400	H	40,000	H	40,000	H	400	H	400	H	
BUTYLBENZENE, N-	104-51-8	[1,500] 2,100	[4,100] 5,800	G	15,000	S	15,000	S	[1,500] 2,100	G	[4,100] 5,800	G	
BUTYLBENZENE, SEC-	135-98-8	[1,500] 4,200	[4,100] 12,000	G	17,000	S	17,000	S	[1,500] 4,200	G	[4,100] 12,000	G	
BUTYLBENZENE, TERT-	98-06-6	[1,500] 4,200	[4,100] 12,000	G	30,000	S	30,000	S	[1,500] 4,200	G	[4,100] 12,000	G	
BUTYLBENZYL PHTHALATE	85-68-7	[350] 380	[1,400] 1,800	G	2,700	S	2,700	S	2,700	S	2,700	S	
CAPTAN	133-06-2	[290] 320	500	S	500	S	500	S	500	S	500	S	
CARBARYL	63-25-2	[3,700] 4,200	[10,000] 12,000	G	120,000	S	120,000	S	120,000	S	120,000	S	
CARBAZOLE	86-74-8	[33] 37	[130] 170	G	1,200	S	1,200	S	[1,200] 37	S	[1,200] 170	S	
CARBOFURAN	1563-66-2	40	40	M	4,000	M	4,000	M	40	M	40	M	
CARBON DISULFIDE	75-15-0	1,500	6,200	N	150,000	N	620,000	N	1,500	N	6,200	N	
CARBON TETRACHLORIDE	56-23-5	5	5	M	500	M	500	M	50	M	50	M	
CARBOXIN	5234-68-4	700	700	H	70,000	H	70,000	H	700	H	700	H	
CHLORAMBEN	133-90-4	100	100	H	10,000	H	10,000	H	100	H	100	H	
CHLORDANE	57-74-9	2	2	M	56	S	56	S	56	S	56	S	
CHLORO-1,1-DIFLUOROETHANE, 1-	75-68-3	110,000	440,000	N	1,400,000	S	1,400,000	S	110,000	N	440,000	N	
CHLORO-1-PROPENE, 3-(ALLYL CHLORIDE)	107-05-1	2.1	8.8	N	210	N	880	N	210	N	880	N	
CHLOROACETALDEHYDE	107-20-0	2.4	11	G	240	G	1,100	G	2.4	G	11	G	
CHLOROACETOPHENONE, 2-	532-27-4	[1.1] 1.3	[3.1] 3.5	G	[110] 130	G	[310] 350	G	[1,100] 1,300	G	[3,100] 3,500	G	
CHLOROANILINE, P-	106-47-8	[3.3] 3.7	[13] 17	G	[330] 370	G	[1,300] 1,700	G	[3.3] 3.7	G	[13] 17	G	
CHLOROBENZENE	108-90-7	100	100	M	10,000	M	10,000	M	10,000	M	10,000	M	
CHLOROBENZILATE	510-15-6	[6] 6.6	[24] 31	G	[600] 660	G	[2,400] 3,100	G	[6,000] 6,600	G	13,000	S	
CHLOROBUTANE, 1-	109-69-3	[1,500] 1,700	[4,100] 4,700	G	[150,000] 170,000	G	[410,000] 470,000	G	[1,500] 1,700	G	[4,100] 4,700	G	
CHLORODIBROMOMETHANE (THM)	124-48-1	80	80	M	8,000	M	8,000	M	8,000	M	8,000	M	
CHLORODIFLUOROMETHANE	75-45-6	110,000	440,000	N	2,900,000	S	2,900,000	S	110,000	N	440,000	N	

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		TDS ≤ 2500			TDS > 2500			R			NR		
		R	NR	NR	R	NR	NR	R	NR	NR	R	NR	NR
CHLOROETHANE	75-00-3	[230] 250	G	[900] 1,200	G	[23,000] 25,000	G	[190,000] 120,000	G	[23,000] 25,000	G	[90,000] 120,000	G
CHLOROFORM (THM)	67-66-3	80	M	80	M	8,000	M	8,000	M	800	M	800	M
CHLORONAPHTHALENE, 2-	91-58-7	[2,900] 3,300	G	[8,200] 9,300	G	12,000	S	12,000	S	[2,900] 3,300	G	[8,200] 9,300	G
CHLORONITROBENZENE, P-	100-00-5	[37] 42	G	[100] 120	G	[3,700] 4,200	G	[10,000] 12,000	G	[37] 42	G	[100] 120	G
CHLOROPHENOL, 2-	95-57-8	40	H	40	H	4,000	H	4,000	H	40	H	40	H
CHLOROPRENE	126-99-8	[15] 0.16	N	[62] 0.83	N	[1,500] 16	N	[6,200] 83	N	[1,500] 16	N	[6,200] 83	N
CHLOROPROPANE, 2-	75-29-6	210	N	880	N	21,000	N	88,000	N	210	N	880	N
CHLOROTHALONIL	1897-45-6	[210] 240	G	600	S	600	S	600	S	[210] 240	G	600	S
CHLOROTOLUENE, O-	95-49-8	100	H	100	H	10,000	H	10,000	H	100	H	100	H
CHLOROTOLUENE, P-	106-43-4	100	H	100	H	10,000	H	10,000	H	100	H	100	H
CHLORPYRIFOS	2921-88-2	2	H	2	H	200	H	200	H	2	H	2	H
CHLORSULFURON	64902-72-3	[1,800] 2,100	G	[5,100] 5,800	G	[180,000] 190,000	[G] S	190,000	S	[1,800] 2,100	G	[5,100] 5,800	G
CHLORTHAL-DIMETHYL (DACTHAL) (DCPA)	1861-32-1	70	H	70	H	500	S	500	S	500	S	500	S
CHRYSENE	218-01-9	1.9	S	1.9	S	1.9	S	1.9	S	1.9	S	1.9	S
[CRESOLS] CRESOL(S)	1319-77-3	[180] 210	G	[510] 580	G	[18,000] 21,000	G	[51,000] 58,000	G	[18,000] 21,000	G	[51,000] 58,000	G
CRESOL, 4,6-DINITRO-O-	534-52-1	[3.7] 3.3	G	[10] 9.3	G	[370] 330	G	[1,000] 930	G	[3,700] 3,300	G	[10,000] 9,300	G
CRESOL, O- (METHYLPHENOL, 2-)	95-48-7	[1,800] 2,100	G	[5,100] 5,800	G	[180,000] 210,000	G	[510,000] 580,000	G	[180,000] 210,000	G	[510,000] 580,000	G
CRESOL, M (METHYLPHENOL, 3-)	108-39-4	[1,800] 2,100	G	[5,100] 5,800	G	[180,000] 210,000	G	[510,000] 580,000	G	[1,800,000] 2,100,000	G	2,500,000	S
CRESOL, P (METHYLPHENOL, 4-)	106-44-5	[180] 210	G	[510] 580	G	[18,000] 21,000	G	[51,000] 58,000	G	[18,000] 21,000	G	[51,000] 58,000	G
CRESOL, P-CHLORO-M-	59-50-7	[180] 4,200	G	[510] 12,000	G	420,000	G	1,200,000	G	[180] 4,200	G	[510] 12,000	G
CROTONALDEHYDE	4170-30-3	[0.35] 0.38	G	[1.4] 1.8	G	[35] 38	G	[140] 180	G	[35] 38	G	[140] 180	G
CROTONALDEHYDE, TRANS-	123-73-9	[0.35] 0.38	G	[1.4] 1.8	G	[35] 38	G	[140] 180	G	[35] 38	G	[140] 180	G
CUMENE (ISOPROPYL BENZENE)	98-82-8	840	N	3,500	N	50,000	S	50,000	S	50,000	S	50,000	S
CYANAZINE	21725-46-2	1	H	1	H	100	H	100	H	1	H	1	H
CYCLOHEXANE	110-82-7	13,000	N	53,000	N	55,000	S	55,000	S	13,000	N	53,000	N

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		R	NR	NR	R	NR	NR	R	NR	NR	R	NR	NR
CYCLOHEXANONE	108-94-1	[180,000] 1,500	[G] N	[510,000] 6,200	[G] N	[18,000,000] 150,000	[G] N	[37,000,000] 620,000	[S] N	[180,000] 1,500	[G] N	[510,000] 6,200	[G] N
CYFLUTHRIN	68359-37-5	[270] 310	G	[770] 880	G	[27,000] 31,000	G	[77,000] 88,000	G	[270] 310	G	[770] 880	G
CYROMAZINE	66215-27-8	[2,8] 3	G	[11] 14	G	160	S	160	S	160	S	160	S
DDD, 4,4'-	72-54-8	[1,9] 2.1	G	[7,6] 10	G	40	S	40	S	40	S	40	S
DDE, 4,4'-	72-55-9	[1,9] 2.1	G	5.5	S	5.5	S	5.5	S	5.5	S	5.5	S
DDT, 4,4'-	50-29-3	[1,9] 2.1	G	400	M	40,000	M	40,000	M	200,000	S	200,000	S
DI(2-ETHYLHEXYL)ADIPATE	103-23-1	400	M	400	M	40,000	M	40,000	M	200,000	S	200,000	S
DIALLATE	2303-16-4	[11] 12	G	[43] 56	G	[1,100] 1,200	G	[4,300] 5,600	G	[11,000] 12,000	G	40,000	S
DIAMINOTOLUENE, 2,4-	95-80-7	[0,17] 0,19	G	[0,68] 0,89	G	[17] 19	G	[68] 89	G	[170] 190	G	[680] 890	G
DIAZINON	333-41-5	1	H	100	H	100	H	100	H	1	H	1	H
DIBENZO[A,H]ANTHRACENE	53-70-3	[0,029] 0,031	G	[0,36] 0,47	G	0,6	S	0,6	S	0,6	S	0,6	S
DIBENZOFURAN	132-64-9	[37] 42	G	[100] 120	G	[3,700] 4,200	G	4,500	S	4,500	S	4,500	S
DIBROMO-3-CHLOROPROPANE, 1,2-	96-12-8	0,2	M	0,2	M	20	M	20	M	20	M	20	M
DIBROMOBENZENE, 1,4-	106-37-6	[370] 420	G	[1,000] 1,200	G	20,000	S	20,000	S	[370] 420	G	[1,000] 1,200	G
DIBROMOETHANE, 1,2- (ETHYLENE DIBROMIDE)	106-93-4	0,05	M	0,05	M	5	M	5	M	5	M	5	M
DIBROMOMETHANE	74-95-3	[370] 8,4	[G] N	[1,000] 35	[G] N	[37,000] 840	[G] N	[100,000] 3,500	[G] N	[37,000] 840	[G] N	[100,000] 3,500	[G] N
DIBUTYL PHTHALATE, N-	84-74-2	[3,700] 4,200	G	[10,000] 12,000	G	[370,000] 400,000	[G] S	400,000	S	400,000	S	400,000	S
DICAMBA	1918-00-9	4,000	H	4,000	H	400,000	H	400,000	H	4,000	H	4,000	H
DICHLOROACETIC ACID (HAA)	76-43-6	60	M	60	M	6,000	M	6,000	M	60	M	60	M
DICHLORO-2-BUTENE, 1,4-	764-41-0	0,012	N	0,06	N	1,2	N	6	N	0,012	N	0,06	N
DICHLORO-2-BUTENE, TRANS-1,4-	110-57-6	0,012	N	0,06	N	1,2	N	6	N	0,012	N	0,06	N
DICHLOROBENZENE, 1,2-	95-50-1	600	M	600	M	60,000	M	60,000	M	60,000	M	60,000	M
DICHLOROBENZENE, 1,3-	541-73-1	600	H	600	H	60,000	H	60,000	H	60,000	H	60,000	H
DICHLOROBENZENE, P-	106-46-7	75	M	75	M	7,500	M	7,500	M	7,500	M	7,500	M
DICHLOROBENZIDINE, 3,3'-	91-94-1	[1,5] 1,6	G	[5,8] 7,6	G	[150] 160	G	[580] 760	G	[1,500] 1,600	G	3,100	S
DICHLORODIFLUOROMETHANE (FREON 12)	75-71-8	1,000	H	1,000	H	100,000	H	100,000	H	100,000	H	100,000	H
DICHLOROETHANE, 1,1-	75-34-3	31	N	160	N	3,100	N	16,000	N	310	N	1,600	N

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TABLE 1—MEDIUM-SPECIFIC CONCENTRATIONS (MSCs) FOR ORGANIC REGULATED SUBSTANCES IN GROUNDWATER

REGULATED SUBSTANCE	CASRN	USED AQUIFERS						NON-USE AQUIFERS					
		TDS ≤ 2500			TDS > 2500			R			NR		
		R	NR	R	NR	R	NR	R	NR	R	NR	R	NR
DICHLOROETHANE, 1,2-	107-06-2	5	M	500	M	500	M	500	M	50	M	50	M
DICHLOROETHYLENE, 1,1-	75-35-4	7	M	700	M	700	M	700	M	70	M	70	M
DICHLOROETHYLENE, CIS-1,2-	156-59-2	70	M	7,000	M	7,000	M	7,000	M	700	M	700	M
DICHLOROETHYLENE, TRANS-1,2-	156-60-5	100	M	10,000	M	10,000	M	10,000	M	1,000	M	1,000	M
DICHLOROMETHANE (METHYLENE CHLORIDE)	75-09-2	5	M	500	M	500	M	500	M	500	M	500	M
DICHLOROPHENOL, 2,4-	120-83-2	20	H	2,000	H	2,000	H	2,000	H	20,000	H	20,000	H
DICHLOROPHENOXACETIC ACID, 2,4-(2,4-D)	94-75-7	70	M	7,000	M	7,000	M	7,000	M	70,000	M	70,000	M
DICHLOROPROPANE, 1,2-	78-87-5	5	M	500	M	500	M	500	M	50	M	50	M
DICHLOROPROPENE, 1,3-	542-75-6	[6.6] 7.3	G	[660] 730	G	[2,600] 3,400	G	[2,600] 3,400	G	[660] 730	G	[2,600] 3,400	G
DICHLOROPROPIONIC ACID, 2,2-(DALAPON)	75-99-0	200	M	20,000	M	20,000	M	20,000	M	20,000	M	20,000	M
DICHLOROVOS	62-73-7	[2.3] 2.5	G	[230] 250	G	[900] 1,200	G	[900] 1,200	G	[2.3] 2.5	G	[9] 12	G
DICYCLOPENTADIENE	77-73-6	15	N	1,500	N	6,200	N	6,200	N	15	N	62	N
DIELDRIN	60-57-1	[0.041] 0.046	G	[4.1] 4.6	G	[16] 21	G	[16] 21	G	[41] 46	G	[160] 170	[G] S
DIETHYL PHTHALATE	84-66-2	[29,000] 33,000	G	[82,000] 93,000	G	1,100,000	S	1,100,000	S	1,100,000	S	1,100,000	S
DIFLUBENZURON	35367-38-5	200	S	200	S	200	S	200	S	200	S	200	S
DISOPROPYL METHYLPHOSPHONATE	1445-75-6	600	H	60,000	H	60,000	H	60,000	H	600	H	600	H
DIMETHOATE	60-51-5	[7.3] 8.3	G	[730] 830	G	[2,000] 2,300	G	[2,000] 2,300	G	[7,300] 8,300	G	[20,000] 23,000	G
DIMETHOXYBENZIDINE, 3,3-	119-90-4	[47] 52	G	[4,700] 5,200	G	[19,000] 24,000	G	[19,000] 24,000	G	[47,000] 52,000	G	60,000	S
DIMETHRIN	70-38-2	36	S	36	S	36	S	36	S	36	S	36	S
DIMETHYLAMINOAZOBENZENE, P-	60-11-7	[0.14] 0.16	G	[14] 16	G	[57] 74	G	[57] 74	G	[140] 160	G	[570] 740	G
DIMETHYLANILINE, N,N-	121-69-7	[73] 83	G	[7,300] 8,300	G	[20,000] 23,000	G	[20,000] 23,000	G	[7,300] 8,300	G	[20,000] 23,000	G
DIMETHYLBENZIDINE, 3,3-	119-93-7	[0.06] 0.46	G	[6] 46	G	[24] 210	G	[24] 210	G	[60] 460	G	[240] 2,100	G
DIMETHYL METHYLPHOSPHONATE	756-79-6	100	H	10,000	H	10,000	H	10,000	H	100	H	100	H
DIMETHYLPHENOL, 2,4-	105-67-9	[730] 830	G	[73,000] 83,000	G	[200,000] 230,000	G	[200,000] 230,000	G	[730,000] 830,000	G	[2,000,000] 2,300,000	G
DINITROBENZENE, 1,3-	99-65-0	1	H	100	H	100	H	100	H	1,000	H	1,000	H

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		TDS ≤ 2500			TDS > 2500			R			NR		
		R	NR	R	NR	R	NR	R	NR	R	NR	R	NR
DINITROPHENOL, 2,4-	51-28-5	[73] 83	[200] 250	[7,300] 8,300	G	G	G	[20,000] 23,000	G	[73,000] 83,000	G	[200,000] 230,000	G
DINITROTOLUENE, 2,4-	121-14-2	[2.1] 2.4	[8.4] 11	[210] 240	G	G	[840] 1,100	G	[2,100] 2,400	G	[8,400] 11,000	G	[20,000] 23,000
DINITROTOLUENE, 2,6- (2,6-DNT)	606-20-2	[37] 42	[100] 120	[3,700] 4,200	G	G	[10,000] 12,000	G	[37,000] 42,000	G	[100,000] 120,000	G	[200,000] 230,000
DINoseb	88-85-7	7	7	700	M	M	700	M	7,000	M	7,000	M	7,000
DIOXANE, 1,4-	123-91-1	[6.4] 7.3	[32] 34	[640] 730	[N]	[N]	[3,200] 3,400	[N]	[64] 73	[N]	[320] 340	[N]	[320] 340
DIPHENAMID	957-51-7	200	200	20,000	H	H	20,000	H	200	H	200	H	200
DIPHENYLAMINE	122-39-4	[910] 1,000	[2,600] 2,900	[91,000] 100,000	G	G	[260,000] 290,000	G	[9,100] 10,000	G	[260,000] 290,000	G	300,000
DIPHENYLHYDRAZINE, 1,2-	122-66-7	[0.83] 0.91	[3.3] 4.3	[83] 91	G	G	250	S	250	S	250	S	250
DIQUAT	85-00-7	20	20	2,000	M	M	2,000	M	20	M	20	M	20
DISULFOTON	298-04-4	0.7	0.7	70	H	H	70	H	700	H	700	H	700
DITHIANE, 1,4-	505-29-3	80	80	8,000	H	H	8,000	H	80	H	80	H	80
DIURON	330-54-1	[73] 83	[200] 230	[7,300] 8,300	G	G	[20,000] 23,000	G	[73] 83	G	[200] 230	G	[200] 230
ENDOSULFAN	115-29-7	[220] 250	480	480	S	S	480	S	480	S	480	S	480
ENDOSULFAN I (ALPHA)	959-98-8	[220] 250	500	500	S	S	500	S	[220] 250	G	500	S	500
ENDOSULFAN II (BETA)	33213-65-9	[220] 250	450	450	S	S	450	S	[220] 250	G	450	S	450
ENDOSULFAN SULFATE	1031-07-8	120	120	120	S	S	120	S	120	S	120	S	120
ENDOTHALL	145-73-3	100	100	10,000	M	M	10,000	M	100	M	100	M	100
ENDRIN	72-20-8	2	2	200	M	M	200	M	2	M	2	M	2
EPICHLOROHYDRIN	106-89-8	2.1	8.8	210	N	N	880	N	210	N	880	N	880
ETHEPHON	16672-87-0	[180] 210	[510] 580	[18,000] 21,000	G	G	[51,000] 58,000	G	[180] 210	G	[510] 580	G	[510] 580
ETHION	563-12-2	[18] 21	[51] 58	850	G	G	850	S	[18] 21	G	[51] 58	G	[51] 58
ETHOXYETHANOL, 2- (EGEE)	110-80-5	420	1,800	42,000	N	N	180,000	N	42,000	N	180,000	N	180,000
ETHYL ACETATE	141-78-6	[33,000] 38,000	[92,000] 110,000	[3,300,000] 3,800,000	G	G	[9,200,000] 11,000,000	G	[3,300,000] 3,800,000	G	[9,200,000] 11,000,000	G	[9,200,000] 11,000,000
ETHYL ACRYLATE	140-88-5	[14] 15	[54] 71	[1,400] 1,500	G	G	[5,400] 7,100	G	[1,400] 1,500	G	[5,400] 7,100	G	[5,400] 7,100
ETHYL BENZENE	100-41-4	700	700	70,000	M	M	70,000	M	70,000	M	70,000	M	70,000

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		TDS ≤ 2500			TDS > 2500			R			NR		
		R	NR	G	R	NR	G	R	NR	G	R	NR	G
ETHYL DIPROPYLTHIOCARBAMATE, S- (EPTC)	759-94-4	[910] 1,000	[2,600] 2,900	G	G	[91,000] 100,000	G	[260,000] 290,000	G	[1910] 1,000	G	[12,600] 2,900	G
ETHYL ETHER	60-29-7	[7,300] 8,300	[20,000] 23,000	G	G	[730,000] 830,000	G	[2,000,000] 2,300,000	G	[7,300] 8,300	G	[20,000] 23,000	G
ETHYL METHACRYLATE	97-63-2	[3,300] 630	[9,200] 2,600	[G] N	[G] N	[330,000] 63,000	[G] N	[920,000] 260,000	[G] N	[3,300] 630	[G] N	[9,200] 2,600	[G] N
ETHYLENE CHLORHYDRIN	107-07-3	830	2,300	G	G	83,000	G	230,000	G	830	G	2,300	G
ETHYLENE GLYCOL	107-21-1	14,000	14,000	H	H	1,400,000	H	1,400,000	H	1,400,000	H	1,400,000	H
ETHYLENE THIOUREA (ETU)	96-45-7	[2.9] 3.3	[8.2] 9.3	G	G	[290] 330	G	[820] 930	G	[2,900] 3,300	G	[8,200] 9,300	G
ETHYL-NITROPHENYL PHENYLPHOSPHOROTHIOATE	2104-64-5	[0.37] 0.42	1	G	G	[37] 42	G	[100] 120	G	[0.37] 0.42	G	[1] 1.2	G
FENAMIPHOS	22224-92-6	0.7	0.7	H	H	70	H	70	H	0.7	H	0.7	H
FENVALERATE (PYDRIN)	51630-58-1	85	85	S	S	85	S	85	S	85	S	85	S
FLUOMETURON (FLUOMETRON IN EPA FEB 96)	2164-17-2	90	90	H	H	9,000	H	9,000	H	90	H	90	H
FLUORANTHENE	206-44-0	260	260	S	S	260	S	260	S	260	S	260	S
FLUORENE	86-73-7	[1,500] 1,700	1,900	G	G	1,900	S	1,900	S	1,900	S	1,900	S
FLUOROTRICHLOROMETHANE (FREON 11)	75-69-4	2,000	2,000	H	H	200,000	H	200,000	H	200,000	H	200,000	H
FONOFOS	944-22-9	10	10	H	H	1,000	H	1,000	H	10	H	10	H
FORMALDEHYDE	50-00-0	1,000	1,000	H	H	100,000	H	100,000	H	100,000	H	100,000	H
FORMIC ACID	64-18-6	[6.3] 0.63	[26] 2.6	N	N	[630] 63	N	[2,600] 260	N	[63] 6.3	N	[260] 26	N
FOSETYL-AL	39148-24-8	[110,000] 130,000	[310,000] 350,000	G	G	[11,000,000] 13,000,000	G	[31,000,000] 35,000,000	G	[110,000] 130,000	G	[310,000] 350,000	G
FURAN	110-00-9	[37] 42	[100] 120	G	G	[3,700] 4,200	G	[10,000] 12,000	G	[3,700] 4,200	G	[10,000] 12,000	G
FURFURAL	98-01-1	110	[310] 350	N	G	11,000	N	[31,000] 35,000	G	110	N	[310] 350	G
GLYPHOSATE	1071-83-6	700	700	M	M	70,000	M	70,000	M	700	M	700	M
HEPTACHLOR	76-44-8	0.4	0.4	M	M	40	M	40	M	180	S	180	S
HEPTACHLOR EPOXIDE	1024-57-3	0.2	0.2	M	M	20	M	20	M	200	M	200	M
HEXACHLOROBENZENE	118-74-1	1	1	M	M	6	S	6	S	6	S	6	S
HEXACHLOROBUTADIENE	87-68-3	[8.5] 9.4	[33] 44	G	G	[850] 940	G	2,900	S	2,900	S	2,900	S
HEXACHLOROCYCLOPENTADIENE	77-47-4	50	50	M	M	1,800	S	1,800	S	1,800	S	1,800	S

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		R	H	NR	R	H	NR	R	H	NR	R	H	NR		
HEXACHLOROETHANE	67-72-1	1	H	1	H	100	H	100	H	100	H	100	H	100	H
HEXANE	110-54-3	1,500	N	[6,100] 6,200	[G]	9,500	S	9,500	S	1,500	N	[6,100] 6,200	[G]	N	
HEXAZINONE	51235-04-2	400	H	400	H	40,000	H	40,000	H	400	H	400	H	400	H
HEXYTHIAZOX (SAVEY)	78587-05-0	500	S	500	S	500	S	500	S	500	S	500	S	500	S
HMX	2691-41-0	400	H	400	H	5,000	S	5,000	S	400	H	400	H	400	H
HYDRAZINE/HYDRAZINE SULFATE	302-01-2	0.01	N	0.051	N	1	N	5.1	N	0.1	N	0.51	N	0.51	N
HYDROQUINONE	123-31-9	12	G	[46] 57	G	1,200	G	[4,600] 5,700	G	12,000	G	[46,000] 57,000	G	57,000	
INDENO[1,2,3-CD]PYRENE	193-39-5	[0.29] 0.31	G	[3.6] 4.7	G	[29] 31	G	62	S	62	S	62	S	62	S
IPIODIONE	36734-19-7	[1,500] 1,700	G	[4,100] 4,700	G	13,000	S	13,000	S	[1,500] 1,700	G	[4,100] 4,700	G	4,700	
ISOBUTYL ALCOHOL	78-83-1	[11,000] 13,000	G	[31,000] 35,000	G	[1,100,000] 1,300,000	G	[3,100,000] 3,500,000	G	[1,100,000] 1,300,000	G	[3,100,000] 3,500,000	G	3,500,000	
ISOPHORONE	78-59-1	100	H	100	H	10,000	H	10,000	H	100,000	H	100,000	H	100,000	H
ISOPROPYL METHYLPHOSPHONATE	1832-54-8	700	H	700	H	70,000	H	70,000	H	700	H	700	H	700	H
KEPONE	143-50-0	[0.041] 0.073	G	[0.16] 0.34	G	[4.1] 7.3	G	[16] 34	G	[4.1] 7.3	G	[16] 34	G	[16] 34	G
MALATHION	121-75-5	500	H	500	H	50,000	H	50,000	H	50,000	H	50,000	H	140,000	S
MALEIC HYDRAZIDE	123-33-1	4,000	H	4,000	H	400,000	H	400,000	H	4,000	H	4,000	H	4,000	H
MANEB	12427-38-2	[180] 210	G	[510] 580	G	[18,000] 21,000	G	23,000	S	[180] 210	G	[510] 580	G	580	
MERPHOS OXIDE	78-48-8	[1.1] 1.3	G	[3.1] 3.5	G	[110] 130	G	[310] 350	G	[1.1] 1.3	G	[3.1] 3.5	G	3.5	
METHACRYLONITRILE	126-98-7	[1.5] 4.2	[N]	[6.2] 12	[N]	[150] 420	[N]	[620] 1,200	[N]	[1.5] 4.2	[N]	[6.2] 12	[N]	12	
METHAMIDOPHOS	10265-92-6	[1.8] 2.1	G	[5.1] 5.8	G	[180] 210	G	[510] 580	G	[1.8] 2.1	G	[5.1] 5.8	G	5.8	
METHANOL	67-56-1	[8,400] 42,000	N	[35,000] 180,000	N	[840,000] 4,200,000	N	[3,500,000] 18,000,000	N	[840,000] 4,200,000	N	[3,500,000] 18,000,000	N	18,000,000	
METHOMYL	16752-77-5	200	H	200	H	20,000	H	20,000	H	200	H	200	H	200	H
METHOXYCHLOR	72-43-5	40	M	40	M	45	S	45	S	45	S	45	S	45	S
METHOXYETHANOL, 2-	109-86-4	42	N	180	N	4,200	N	18,000	N	42	N	180	N	180	N
METHYL ACETATE	79-20-9	[37,000] 42,000	G	[100,000] 120,000	G	[3,700,000] 4,200,000	G	[10,000,000] 12,000,000	G	[37,000] 42,000	G	[100,000] 120,000	G	120,000	
METHYL ACRYLATE	96-33-3	[1,100] 42	[G]	[3,100] 180	[G]	[110,000] 4,200	[G]	[310,000] 18,000	[G]	[110,000] 4,200	[G]	[310,000] 18,000	[G]	18,000	
METHYL CHLORIDE	74-87-3	30	H	30	H	3,000	H	3,000	H	3,000	H	3,000	H	3,000	H

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		TDS ≤ 2500			TDS > 2500			R			NR			
		R	NR	H	R	NR	H	R	NR	H	R	NR	H	
METHYL ETHYL KETONE	78-93-3	4,000	4,000	H	4,000	H	400,000	H	400,000	H	400,000	H	400,000	H
METHYL HYDRAZINE	60-34-4	0.042	0.18	N	0.18	N	4.2	N	18	N	0.42	N	1.8	N
METHYL ISOBUTYL KETONE	108-10-1	[2,900] 3,300	[8,200] 9,300	G	[290,000] 330,000	G	[820,000] 930,000	G	[820,000] 930,000	G	[290,000] 330,000	G	[820,000] 930,000	G
METHYL ISOCYANATE	624-83-9	2.1	8.8	N	210	N	880	N	880	N	2.1	N	8.8	N
METHYL N-BUTYL KETONE (2-HEXANONE)	591-78-6	[111] 63	[44] 260	N	[1,100] 6,300	N	[4,400] 26,000	N	[4,400] 26,000	N	[111] 63	N	[44] 260	N
METHYL METHACRYLATE	80-62-6	1,500	6,200	N	150,000	N	620,000	N	620,000	N	150,000	N	620,000	N
METHYL METHANESULFONATE	66-27-3	[6.7] 7.4	[26] 34	G	[670] 740	G	[2,600] 3,400	G	[2,600] 3,400	G	[6.7] 7.4	G	[26] 34	G
METHYL PARATHION	298-00-0	1	1	H	100	H	100	H	100	H	1,000	H	1,000	H
METHYL STYRENE (MIXED ISOMERS)	25013-15-4	84	350	N	8,400	N	35,000	N	35,000	N	84	N	350	N
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	20	20	H	2,000	H	2,000	H	2,000	H	200	H	200	H
METHYLCHLOROPHENOXACETIC ACID (MCPA)	94-74-6	30	30	H	3,000	H	3,000	H	3,000	H	30,000	H	30,000	H
METHYLENE BIS(2-CHLOROANILINE), 4,4'	101-14-4	[2.2] 2.3	[26] 34	G	[220] 230	G	[2,600] 3,400	G	[2,600] 3,400	G	[2.2] 2.3	G	[26] 34	G
METHYLNAPHTHALENE, 2-	91-57-6	[150] 170	[410] 470	G	[15,000] 17,000	G	25,000	S	25,000	S	[150] 170	G	[410] 470	G
METHYLSTYRENE, ALPHA	98-83-9	[2,600] 2,900	[7,200] 8,200	G	[260,000] 290,000	G	560,000	S	560,000	S	[2,600] 2,900	G	[7,200] 8,200	G
METOLACHLOR	51218-45-2	700	700	H	70,000	H	70,000	H	70,000	H	700	H	700	H
METRIBUZIN	21087-64-9	70	70	H	7,000	H	7,000	H	7,000	H	70	H	70	H
MONOCHLOROACETIC ACID (HAA)	79-11-8	[70] 60	[70] 60	H	[7,000] 6,000	H	[7,000] 6,000	H	[7,000] 6,000	H	[70] 60	H	[70] 60	H
NAPHTHALENE	91-20-3	100	100	H	10,000	H	10,000	H	10,000	H	30,000	S	30,000	S
NAPHTHYLAMINE, 1-	134-32-7	[0.37] 0.41	[1.4] 1.9	G	[37] 41	G	[140] 190	G	[140] 190	G	[370] 410	G	[1,400] 1,900	G
NAPHTHYLAMINE, 2-	91-59-8	[0.37] 0.41	[1.4] 1.9	G	[37] 41	G	[140] 190	G	[140] 190	G	[370] 410	G	[1,400] 1,900	G
NAPROPAMIDE	15299-99-7	[3,700] 4,200	[10,000] 12,000	G	70,000	S	70,000	S	70,000	S	[3,700] 4,200	G	[10,000] 12,000	G
NITROANILINE, M-	99-09-2	[11] 13	[31] 35	G	[1,100] 1,300	G	[3,100] 3,500	G	[3,100] 3,500	G	[11] 13	G	[31] 35	G
NITROANILINE, O-	88-74-4	[110] 420	[310] 1,200	G	[11,000] 42,000	G	[31,000] 120,000	G	[31,000] 120,000	G	[110] 420	G	[310] 1,200	G
NITROANILINE, P-	100-01-6	[33] 37	[130] 170	G	[3,300] 3,700	G	[13,000] 17,000	G	[13,000] 17,000	G	[33] 37	G	[130] 170	G
NITROBENZENE	98-95-3	[73] 83	[200] 250	G	[7,300] 8,300	G	[20,000] 23,000	G	[20,000] 23,000	G	[73,000] 83,000	G	[200,000] 230,000	G

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THMs – The values listed for trihalomethanes (THMs) are the total for all THMs combined.
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APPENDIX A
TABLE 1—MEDIUM-SPECIFIC CONCENTRATIONS (MSCs) FOR ORGANIC REGULATED SUBSTANCES IN GROUNDWATER

REGULATED SUBSTANCE	CASRN	USED AQUIFERS						NON-USE AQUIFERS					
		TDS ≤ 2500			TDS > 2500			R			NR		
		R	H	NR	R	H	NR	R	H	NR	R	H	NR
NITROGUANIDINE	556-88-7	700	H	700	H	70,000	H	70,000	H	700	H	700	H
NITROPHENOL, 2-	88-75-5	[290] 330	G	[820] 930	G	[29,000] 33,000	G	[82,000] 93,000	G	[290,000] 330,000	G	[820,000] 930,000	G
NITROPHENOL, 4-	100-02-7	60	H	60	H	6,000	H	6,000	H	60,000	H	60,000	H
NITROPROPANE, 2-	79-46-9	0.018	N	0.093	N	1.8	N	9.3	N	0.18	N	0.93	N
NITROSODIETHYLAMINE, N-	55-18-5	0.00045	N	0.0058	N	0.045	N	0.58	N	0.0045	N	0.058	N
NITROSODIMETHYLAMINE, N-	62-75-9	0.0014	N	0.018	N	0.14	N	1.8	N	0.014	N	0.18	N
NITROSO-DI-N-BUTYLAMINE, N-	924-16-3	[0.12] 0.14	G	[0.48] 0.63	G	[12] 14	G	[48] 63	G	[120] 140	G	[480] 630	G
NITROSODI-N-PROPYLAMINE, N-	621-64-7	[0.094] 0.1	G	[0.37] 0.49	G	[9.4] 10	G	[37] 49	G	[94] 100	G	[370] 490	G
NITROSODIPHENYLAMINE, N-	86-30-6	[130] 150	G	[530] 690	G	[13,000] 15,000	G	35,000	S	35,000	S	35,000	S
NITROSO-N-ETHYLUREA, N-	759-73-9	[0.008] 0.0084	G	[0.096] 0.13	G	[0.8] 0.84	G	[9.6] 13	G	[8] 8.4	G	[96] 130	G
OCTYL PHTHALATE, DI-N-	117-84-0	[1,500] 420	G	[3,000] 1,200	G	3,000	S	3,000	S	3,000	S	3,000	S
OXAMYL (VYDATE)	23135-22-0	200	M	200	M	20,000	M	20,000	M	200	M	200	M
PARAQUAT	1910-42-5	30	H	30	H	3,000	H	3,000	H	30	H	30	H
PARATHION	56-38-2	[220] 250	G	[610] 700	G	20,000	S	20,000	S	[220] 250	G	[610] 700	G
PCB-1016 (AROCLOR)	12674-11-2	[2.6] 2.9	G	[7.2] 8.2	G	250	S	250	S	[2.6] 2.9	G	[7.2] 8.2	G
PCB-1221 (AROCLOR)	11104-28-2	[0.33] 0.37	G	[1.3] 1.7	G	[33] 37	G	[130] 170	G	[0.33] 0.37	G	[1.3] 1.7	G
PCB-1232 (AROCLOR)	11141-16-5	[0.33] 0.37	G	[1.3] 1.7	G	[33] 37	G	[130] 170	G	[0.33] 0.37	G	[1.3] 1.7	G
PCB-1242 (AROCLOR)	53469-21-9	[0.33] 0.37	G	[1.3] 1.7	G	[33] 37	G	100	S	[0.33] 0.37	G	[1.3] 1.7	G
PCB-1248 (AROCLOR)	12672-29-6	[0.33] 0.37	G	[1.3] 1.7	G	[33] 37	G	54	S	[0.33] 0.37	G	[1.3] 1.7	G
PCB-1254 (AROCLOR)	11097-69-1	[0.33] 0.37	G	[1.3] 1.7	G	[33] 37	G	57	S	[0.33] 0.37	G	[1.3] 1.7	G
PCB-1260 (AROCLOR)	11096-82-5	[0.33] 0.37	G	[1.3] 1.7	G	[33] 37	G	80	S	[0.33] 0.37	G	[1.3] 1.7	G
PEBULATE	1114-71-2	[1,800] 2,100	G	[5,100] 5,800	G	92,000	S	92,000	S	[1,800] 2,100	G	[5,100] 5,800	G
PENTACHLORO BENZENE	608-93-5	[29] 33	G	[82] 93	G	740	S	740	S	740	S	740	S
PENTACHLOROETHANE	76-01-7	[7.3] 8.1	G	[29] 38	G	[730] 810	G	[2,900] 3,800	G	[7.3] 8.1	G	[29] 38	G
PENTACHLORONITROBENZENE	82-68-8	[2.5] 2.8	G	[10] 13	G	[250] 280	G	440	S	440	S	440	S
PENTACHLOROPHENOL	87-86-5	1	M	1	M	100	M	100	M	1,000	M	1,000	M
PHENACETIN	62-44-2	[300] 330	G	[1,200] 1,500	G	[30,000] 33,000	G	[120,000] 150,000	G	[300,000] 330,000	G	760,000	S
PHENANTHRENE	85-01-8	1,100	S	1,100	S	1,100	S	1,100	S	1,100	S	1,100	S

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APPENDIX A
TABLE 1—MEDIUM-SPECIFIC CONCENTRATIONS (MSCs) FOR ORGANIC REGULATED SUBSTANCES IN GROUNDWATER

REGULATED SUBSTANCE	CASRN	USED AQUIFERS						NON-USE AQUIFERS					
		TDS ≤ 2500			TDS > 2500			R			NR		
		R	NR	H	R	NR	H	R	NR	H	R	NR	H
PHENOL	108-95-2	2,000	2,000	H	200,000	H	200,000	H	200,000	H	200,000	H	200,000
PHENYL MERCAPTAN	108-98-5	[0.37] 42	[1] 120	G	[37] 4,200	G	[100] 12,000	G	[0.37] 42	G	[1] 120	G	[1] 120
PHENYLENEDIAMINE, M-	108-45-2	[220] 250	[610] 700	G	[22,000] 25,000	G	[61,000] 70,000	G	[220,000] 250,000	G	[610,000] 700,000	G	[610,000] 700,000
PHENYLPHENOL, 2-	90-43-7	[350] 380	[1,400] 1,800	G	[35,000] 38,000	G	[140,000] 180,000	G	[350,000] 380,000	G	[700,000] 700,000	S	700,000
PHORATE	298-02-2	[7.3] 8.3	[20] 23	G	[730] 830	G	[2,000] 2,300	G	[7.3] 8.3	G	[20] 23	G	[20] 23
PHTHALIC ANHYDRIDE	85-44-9	[73,000] 83,000	[200,000] 230,000	G	6,200,000	S	6,200,000	S	6,200,000	S	6,200,000	S	6,200,000
PICLORAM	1918-02-1	500	500	M	50,000	M	50,000	M	500	M	500	M	500
POLYCHLORINATED BIPHENYLS (PCBS)	1336-36-3	0.5	0.5	M	50	M	50	M	0.5	M	0.5	M	0.5
PROMETON	1610-18-0	400	400	H	40,000	H	40,000	H	400	H	400	H	400
PRONAMIDE	23950-58-5	[2,700] 3,100	[7,700] 8,800	G	15,000	S	15,000	S	[2,700] 3,100	G	[7,700] 8,800	G	[7,700] 8,800
PROPANIL	709-98-8	[180] 210	[510] 580	G	[18,000] 21,000	G	[51,000] 58,000	G	[180] 210	G	[510] 580	G	[510] 580
PROPANOL, 2- (ISOPROPYL ALCOHOL)	67-63-0	15,000	62,000	N	1,500,000	N	6,200,000	N	15,000	N	62,000	N	62,000
PROPAZINE	139-40-2	10	10	H	1,000	H	1,000	H	10	H	10	H	10
PROPHAM	122-42-9	100	100	H	10,000	H	10,000	H	100	H	100	H	100
PROPYLBENZENE, N-	103-65-1	[1,500] 2,100	[4,100] 8,800	[G] N	52,000	S	52,000	S	[1,500] 2,100	[G] N	[4,100] 8,800	[G] N	[4,100] 8,800
PROPYLENE OXIDE	75-56-9	[2.8] 3	[11] 14	G	[280] 300	G	[1,100] 1,400	G	[2.8] 3	G	[11] 14	G	[11] 14
PYRENE	129-00-0	130	130	S	130	S	130	S	130	S	130	S	130
PYRIDINE	110-86-1	[37] 42	[100] 120	G	[3,700] 4,200	G	[10,000] 12,000	G	[370] 420	G	[1,000] 1,200	G	[1,000] 1,200
QUINOLINE	91-22-5	[0.22] 0.24	[0.87] 1.1	G	[22] 24	G	[87] 110	G	[0.22] 0.24	G	[0.87] 1.1	G	[0.87] 1.1
QUIZALOFOP (ASSURE)	76578-14-8	300	300	S	300	S	300	S	300	S	300	S	300
RDX	121-82-4	2	2	H	200	H	200	H	2	H	2	H	2
RESORCINOL	108-46-3	[73,000] 83,000	[200,000] 230,000	G	[7,300,000] 8,300,000	G	[20,000,000] 23,000,000	G	[73,000] 83,000	G	[200,000] 230,000	G	[200,000] 230,000
RONNEL	299-84-3	[1,800] 2,100	[5,100] 5,800	G	40,000	S	40,000	S	[1,800] 2,100	G	[5,100] 5,800	G	[5,100] 5,800
SIMAZINE	122-34-9	4	4	M	400	M	400	M	4	M	4	M	4
STRYCHNINE	57-24-9	[11] 13	[31] 35	G	[1,100] 1,300	G	[3,100] 3,500	G	[11,000] 13,000	G	[31,000] 35,000	G	[31,000] 35,000

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REGULATED SUBSTANCE	CASRN	USED AQUIFERS						NON-USE AQUIFERS					
		TDS ≤ 2500			TDS > 2500			R			NR		
		R	NR	M	R	NR	M	R	NR	M	R	NR	M
STYRENE	100-42-5	100	M	100	M	10,000	M	10,000	M	10,000	M	10,000	M
TEBUTHIURON	34014-18-1	500	H	500	H	50,000	H	50,000	H	50,000	H	500	H
TERBACIL	5902-51-2	90	H	90	H	9,000	H	9,000	H	9,000	H	90	H
TERBUFOS	13071-79-9	0.4	H	0.4	H	40	H	40	H	40	H	0.4	H
TETRACHLOROBENZENE, 1,2,4,5-	95-94-3	[111] 13	G	[311] 35	G	580	S	580	S	580	S	580	S
TETRACHLORODIBENZO-P-DIOXIN, 2,3,7,8- (TCDD)	1746-01-6	0.00003	M	0.00003	M	0.003	M	0.003	M	0.003	M	0.019	S
TETRACHLOROETHANE, 1,1,1,2-	630-20-6	70	H	70	H	7,000	H	7,000	H	7,000	H	7,000	H
TETRACHLOROETHANE, 1,1,2,2-	79-34-5	0.84	N	4.3	N	84	N	430	N	84	N	430	N
TETRACHLOROETHYLENE (PCE)	127-18-4	5	M	5	M	500	M	500	M	50	M	50	M
TETRACHLOROPHENOL, 2,3,4,6-	58-90-2	[1,100] 1,300	G	[3,100] 3,500	G	[110,000] 130,000	G	180,000	S	180,000	S	180,000	S
TETRAETHYL LEAD	78-00-2	[0.0037] 0.0042	G	[0.01] 0.012	G	[0.37] 0.42	G	1	G	[3.7] 4.2	G	[10] 12	G
TETRAETHYLTHIOPROPHOSPHATE	3689-24-5	[18] 21	G	[51] 58	G	[1,800] 2,100	G	[5,100] 5,800	G	[18] 21	G	[51] 58	G
TETRAHYDROFURAN	109-99-9	[25] 26	N	130	N	[2,500] 2,600	N	13,000	N	[25] 26	N	130	N
THIOFANOX	39196-18-4	[11] 13	G	[31] 35	G	[1,100] 1,300	G	[3,100] 3,500	G	[11] 13	G	[31] 35	G
THIRAM	137-26-8	[180] 210	G	[510] 580	G	[18,000] 21,000	G	30,000	S	[180] 210	G	[510] 580	G
TOLUENE	108-88-3	1,000	M	1,000	M	100,000	M	100,000	M	100,000	M	100,000	M
TOLUIDINE, M-	108-44-1	[3.7] 4.1	G	[14] 19	G	[370] 410	G	[1,400] 1,900	G	[3.7] 4.1	G	[14] 19	G
TOLUIDINE, O	95-53-4	[3.7] 46	G	[14] 210	G	[370] 4,600	G	[1,400] 21,000	G	[3,700] 46,000	G	[14,000] 210,000	G
TOLUIDINE, P-	106-49-0	[3.5] 24	G	[14] 110	G	[350] 2,400	G	[1,400] 11,000	G	[3.5] 24	G	[14] 110	G
TOXAPHENE	8001-35-2	3	M	3	M	300	M	300	M	3	M	3	M
TRIALATE	2303-17-5	[470] 540	G	[1,300] 1,500	G	4,000	S	4,000	S	[470] 540	G	[1,300] 1,500	G
TRIBROMOMETHANE (BROMOFORM) (THM)	75-25-2	80	M	80	M	8,000	M	8,000	M	8,000	M	8,000	M
TRICHLORO-1,2,2-TRIFLUOROETHANE, 1,1,1,2-	76-13-1	63,000	N	170,000	S	170,000	S	170,000	S	170,000	S	170,000	S
TRICHLOROACETIC ACID (HAA)	76-03-9	60	H	60	H	6,000	H	6,000	H	60	H	60	H
TRICHLOROBENZENE, 1,2,4-	120-82-1	70	M	70	M	7,000	M	7,000	M	44,000	S	44,000	S
TRICHLOROBENZENE, 1,3,5-	108-70-3	40	H	40	H	4,000	H	4,000	H	40	H	40	H
TRICHLOROETHANE, 1,1,1-	71-55-6	200	M	200	M	20,000	M	20,000	M	2,000	M	2,000	M

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REGULATED SUBSTANCE	CASRN	USED AQUIFERS						NON-USE AQUIFERS					
		TDS ≤ 2500			TDS > 2500			R			NR		
		R	NR	R	R	NR	NR	R	R	NR	R	R	NR
TRICHLOROETHANE, 1,1,2-	79-00-5	5	M	500	M	500	M	500	M	50	M	50	M
TRICHLOROETHYLENE (TCE)	79-01-6	5	M	500	M	500	M	500	M	50	M	50	M
TRICHLOROPHENOL, 2,4,5-	95-95-4	[3,700] 4,200	G	[370,000] 420,000	G	1,000,000	[G]	1,000,000	S	1,000,000	S	1,000,000	S
TRICHLOROPHENOL, 2,4,6-	88-06-2	[37] 42	G	[3,700] 4,200	G	[10,000] 12,000	G	[10,000] 12,000	G	[37,000] 42,000	G	[100,000] 120,000	G
TRICHLOROPHENOXACETIC ACID, 2,4,5-(2,4,5-T)	93-76-5	70	H	7,000	H	7,000	H	7,000	H	70,000	H	70,000	H
TRICHLOROPHENOXYPROPIONIC ACID, 2,4,5-(2,4,5-TP)	93-72-1	50	M	5,000	M	5,000	M	5,000	M	50	M	50	M
TRICHLOROPROPANE, 1,1,2-	598-77-6	[180] 210	G	[18,000] 21,000	G	[510] 580	G	[51,000] 58,000	G	[180] 210	G	[510] 580	G
TRICHLOROPROPANE, 1,2,3-	96-18-4	40	H	4,000	H	4,000	H	4,000	H	4,000	H	4,000	H
TRICHLOROPROPENE, 1,2,3-	96-19-5	[2.1] 0.63	N	[210] 63	N	[8.8] 2.6	N	[880] 260	N	[2.1] 0.63	N	[8.8] 2.6	N
TRIETHYLAMINE	121-44-8	15	N	1,500	N	62	N	6,200	N	15	N	62	N
TRIFLURALIN	1582-09-8	10	H	1,000	H	1,000	H	1,000	H	10	H	10	H
TRIMETHYLBENZENE, 1,3,4-(TRIMETHYLBENZENE, 1,2,4-)	95-63-6	15	N	1,500	N	62	N	6,200	N	1,500	N	6,200	N
TRIMETHYLBENZENE, 1,3,5-	108-67-8	[13] 420	[N] G	[1,300] 42,000	[N] G	[53] 1,200	[N] G	[5,300] 49,000	[N] S	[13] 420	[N] G	[53] 1,200	[N] G
TRINITROGLYCEROL (NITROGLYCERIN)	55-63-0	5	H	500	H	5	H	500	H	5	H	5	H
TRINITROLUENE, 2,4,6-	118-96-7	2	H	200	H	2	H	200	H	2	H	2	H
VINYL ACETATE	108-05-4	420	N	42,000	N	1,800	N	180,000	N	420	N	1,800	N
VINYL BROMIDE (BROMOETHENE)	593-60-2	1.5	N	150	N	7.8	N	780	N	15	N	78	N
VINYL CHLORIDE	75-01-4	2	M	200	M	2	M	200	M	20	M	20	M
WARFARIN	81-81-2	[11] 13	G	[1,100] 1,300	G	[31] 35	G	[3,100] 3,500	G	[11,000] 13,000	G	17,000	S
XYLENES (TOTAL)	1330-20-7	10,000	M	180,000	S	10,000	M	180,000	S	180,000	S	180,000	S
ZINEB	12122-67-7	[1,800] 2,100	G	10,000	S	[5,100] 5,800	G	10,000	S	[1,800] 2,100	G	[5,100] 5,800	G

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TABLE 2—MEDIUM-SPECIFIC CONCENTRATIONS (MSCs) FOR INORGANIC REGULATED SUBSTANCES IN GROUNDWATER

REGULATED SUBSTANCE	CASRN	USED AQUIFERS						NON-USE AQUIFERS					
		TDS ≤ 2500			TDS > 2500			R			NR		
		R	NR	M	R	NR	M	R	NR	M	R	NR	
ANTIMONY	7440-36-0	6	M	6	M	600	M	600	M	6,000	M	6,000	M
ARSENIC	7440-38-2	10	M	10	M	1,000	M	1,000	M	10,000	M	10,000	M
ASBESTOS (fibers/L)	12001-29-5	7,000,000	M	7,000,000	M	7,000,000	M	7,000,000	M	7,000,000	M	7,000,000	M
BARIUM AND COMPOUNDS	7440-39-3	2,000	M	2,000	M	200,000	M	200,000	M	2,000,000	M	2,000,000	M
BERYLLIUM	7440-41-7	4	M	4	M	400	M	400	M	4,000	M	4,000	M
BORON AND COMPOUNDS	7440-42-8	6,000	H	6,000	H	600,000	H	600,000	H	6,000,000	H	6,000,000	H
CADMIUM	7440-43-9	5	M	5	M	500	M	500	M	5,000	M	5,000	M
CHROMIUM, TOTAL	7440-47-3	100	M	100	M	10,000	M	10,000	M	100,000	M	100,000	M
COBALT	7440-48-4	[11] 13	G	[31] 35	G	[1,100] 1,300	G	[3,100] 3,500	G	[11,000] 13,000	G	[31,000] 35,000	G
COPPER	7440-50-8	1,000	M	1,000	M	100,000	M	100,000	M	1,000,000	M	1,000,000	M
CYANIDE, FREE	57-12-5	200	M	200	M	20,000	M	20,000	M	200,000	M	200,000	M
FLUORIDE	16984-48-8	4,000	M	4,000	M	400,000	M	400,000	M	4,000,000	M	4,000,000	M
LEAD	7439-92-1	5	M	5	M	500	M	500	M	5,000	M	5,000	M
LITHIUM	7439-93-2	[73] 83	G	[200] 230	G	[7,300] 8,300	G	[20,000] 23,000	G	[73,000] 83,000	G	[200,000] 230,000	G
MANGANESE	7439-96-5	300	H	300	H	30,000	H	30,000	H	300,000	H	300,000	H
MERCURY	7439-97-6	2	M	2	M	200	M	200	M	2,000	M	2,000	M
MOLYBDENUM	7439-98-7	40	H	40	H	4,000	H	4,000	H	40,000	H	40,000	H
NICKEL	7440-02-0	100	H	100	H	10,000	H	10,000	H	100,000	H	100,000	H
NITRATE NITROGEN	14797-55-8	10,000	M	10,000	M	1,000,000	M	1,000,000	M	10,000,000	M	10,000,000	M
NITRITE NITROGEN	14797-65-0	1,000	M	1,000	M	100,000	M	100,000	M	1,000,000	M	1,000,000	M
PERCHLORATE	7790-98-9	15	H	15	H	1,500	H	1,500	H	15,000	H	15,000	H
SELENIUM	7782-49-2	50	M	50	M	5,000	M	5,000	M	50,000	M	50,000	M
SILVER	7440-22-4	100	H	100	H	10,000	H	10,000	H	100,000	H	100,000	H
STRONTIUM	7440-24-6	4,000	H	4,000	H	400,000	H	400,000	H	4,000,000	H	4,000,000	H
THALLIUM	7440-28-0	2	M	2	M	200	M	200	M	2,000	M	2,000	M
TIN	7440-31-5	[22,000] 25,000	G	[61,000] 70,000	G	[2,200,000] 2,500,000	G	[6,100,000] 7,000,000	G	[22,000,000] 25,000,000	G	[61,000,000] 70,000,000	G

All concentrations in µg/L (except asbestos)
M = Maximum Contaminant Level
H = Lifetime Health Advisory Level
SMCL = Secondary Maximum Contaminant Level
G = Ingestion
N = Inhalation
R = Residential
NR = Non Residential

APPENDIX A
 TABLE 2—MEDIUM-SPECIFIC CONCENTRATIONS (MSCs) FOR INORGANIC REGULATED SUBSTANCES IN GROUNDWATER

REGULATED SUBSTANCE	CASRN	USED AQUIFERS						NON-USE AQUIFERS					
		TDS ≤ 2500			TDS > 2500			R		NR			
		R	NR	UNITS	R	NR	UNITS	R	NR	UNITS	R	NR	UNITS
VANADIUM	7440-62-2	[2600] 2.9	G	[720] 8.2	G	[26,000] 290	G	[72,000] 820	G	[260,000] 2,900	G	[720,000] 8,200	G
ZINC AND COMPOUNDS	7440-66-6	2,000	H	2,000	H	200,000	H	200,000	H	2,000,000	H	2,000,000	H

SECONDARY CONTAMINANTS			
REGULATED SUBSTANCE	CASRN	SMCL	UNITS
ALUMINUM	7429-90-5	200	µg/L
CHLORIDE	7647-14-5	250,000	µg/L
FLUORIDE	7681-49-4	2,000	µg/L
IRON	7439-89-6	300	µg/L
MANGANESE	7439-96-5	50	µg/L
SULFATE	7757-82-6	250,000	µg/L

All concentrations in µg/L (except asbestos)
 M = Maximum Contaminant Level
 H = Lifetime Health Advisory Level
 SMCL = Secondary Maximum Contaminant Level
 G = Ingestion
 N = Inhalation
 R = Residential
 NR = Non Residential

APPENDIX A
 TABLE 3—MEDIUM-SPECIFIC CONCENTRATIONS (MSCs) FOR ORGANIC REGULATED SUBSTANCES IN SOIL
 A. Direct Contact Numeric Values

REGULATED SUBSTANCE	CASRN	Residential 0-15 feet		Non-Residential			
				Surface Soil 0-2 feet		Subsurface Soil 2-15 feet	
ACENAPHTHENE	83-32-9	13,000	G	[170,000] 190,000	[G] C	190,000	C
ACENAPHTHYLENE	208-96-8	13,000	G	[170,000] 190,000	[G] C	190,000	C
ACEPHATE	30560-19-1	880	G	[9,100] 10,000	G	190,000	C
ACETALDEHYDE	75-07-0	170	N	720	N	830	N
ACETONE	67-64-1	10,000	C	10,000	C	10,000	C
ACETONITRILE	75-05-8	1,100	N	4,800	N	5,500	N
ACETOPHENONE	98-86-2	10,000	C	10,000	C	10,000	C
ACETYLAMINOFLUORENE, 2- (2AAF)	53-96-3	[4.7] 4.9	G	[21] 24	G	190,000	C
ACROLEIN	107-02-8	0.38	N	1.6	N	1.8	N
ACRYLAMIDE	79-06-1	[0.34] 1.7	N	[1.7] 22	N	[2] 26	N
ACRYLIC ACID	79-10-7	19	N	79	N	91	N
ACRYLONITRILE	107-13-1	6.6	N	33	N	38	N
ALACHLOR	15972-60-8	[320] 330	G	[1,400] 1,600	G	190,000	C
ALDICARB	116-06-3	220	G	[2,800] 3,200	G	190,000	C
ALDICARB SULFONE	1646-88-4	220	G	[2,800] 3,200	G	190,000	C
ALDICARB SULFOXIDE	1646-87-3	220	G	[2,800] 3,200	G	190,000	C
ALDRIN	309-00-2	1.1	G	[4.7] 5.4	G	190,000	C
ALLYL ALCOHOL	107-18-6	[5.7] 1.9	N	[24] 8	N	[27] 9.1	N
AMETRYN	834-12-8	2,000	G	[25,000] 29,000	G	190,000	C
AMINOBIHENYL, 4-	92-67-1	[0.85] 0.89	G	[3.8] 4.3	G	190,000	C
AMITROLE	61-82-5	[19] 20	G	[84] 97	G	190,000	C
AMMONIA	7664-41-7	1,900	N	8,000	N	9,100	N
AMMONIUM SULFAMATE	7773-06-0	44,000	G	190,000	C	190,000	C
ANILINE	62-53-3	19	N	79	N	91	N
ANTHRACENE	120-12-7	66,000	G	190,000	C	190,000	C
ATRAZINE	1912-24-9	[78] 81	G	[340] 400	G	190,000	C
AZINPHOS-METHYL (GUTHION)	86-50-0	660	G	[8,400] 9,600	G	190,000	[G] C
BAYGON (PROPOXUR)	114-26-1	880	G	[11,000] 13,000	G	190,000	C
BENOMYL	17804-35-2	11,000	G	[140,000] 160,000	G	190,000	C
BENTAZON	25057-89-0	6,600	G	[84,000] 96,000	G	190,000	C
BENZENE	71-43-2	57	N	290	N	330	N
BENZIDINE	92-87-5	0.018	G	[0.34] 0.4	G	190,000	C
BENZO[A]ANTHRACENE	56-55-3	[5.7] 6	G	[110] 130	G	190,000	C
BENZO[A]PYRENE	50-32-8	[0.57] 0.58	G	[11] 12	G	190,000	C
BENZO[B]FLUORANTHENE	205-99-2	[5.7] 5.8	G	[110] 120	G	190,000	C
BENZO[GHI]PERYLENE	191-24-2	13,000	G	[170,000] 190,000	[G] C	190,000	C
BENZO[K]FLUORANTHENE	207-08-9	[57] 58	G	[1,100] 1,200	G	190,000	C
BENZOIC ACID	65-85-0	190,000	C	190,000	C	190,000	C
BENZOTRICHLORIDE	98-07-7	1.4	G	[6.1] 7	G	10,000	C
BENZYL ALCOHOL	100-51-6	10,000	C	10,000	C	10,000	C
BENZYL CHLORIDE	100-44-7	9	N	45	N	52	N
BETA PROPIOLACTONE	57-57-8	0.11	N	0.56	N	0.64	N
BHC, ALPHA	319-84-6	[2.8] 3	G	[13] 14	G	190,000	C
BHC, BETA-	319-85-7	[9.9] 10	G	[44] 51	G	190,000	C
BHC, GAMMA (LINDANE)	58-89-9	[16] 17	G	[72] 83	G	190,000	C
BIPHENYL, 1,1-	92-52-4	[11,000] 2,300	G	[140,000] 11,000	G	190,000	C
BIS(2-CHLOROETHOXY)METHANE	111-91-1	660	G	[8,400] 9,600	G	10,000	C
BIS(2-CHLOROETHYL)ETHER	111-44-4	1.3	N	6.7	N	7.7	N
BIS(2-CHLORO-ISOPROPYL)ETHER	108-60-1	44	N	220	N	250	N

All concentrations in mg/kg
 G – Ingestion
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 C – Cap

APPENDIX A
TABLE 3—MEDIUM-SPECIFIC CONCENTRATIONS (MSCs) FOR ORGANIC REGULATED SUBSTANCES IN SOIL
A. Direct Contact Numeric Values

REGULATED SUBSTANCE	CASRN	Residential 0-15 feet		Non-Residential			
				Surface Soil 0-2 feet		Subsurface Soil 2-15 feet	
BIS(CHLOROMETHYL)ETHER	542-88-1	0.0072	N	0.036	N	0.041	N
BIS[2-ETHYLHEXYL] PHTHALATE	117-81-7	1,300	G	[5,700] 6,500	G	10,000	C
BISPHENOL A	80-05-7	11,000	G	[140,000] 160,000	G	190,000	C
BROMACIL	314-40-9	22,000	G	190,000	C	190,000	C
BROMOCHLOROMETHANE	74-97-5	[2,200] 770	[G] N	[10,000] 3,200	[C] N	[10,000] 3,600	[C] N
BROMODICHLOROMETHANE	75-27-4	12	N	60	N	69	N
BROMOMETHANE	74-83-9	96	N	400	N	460	N
BROMOXYNIL	1689-84-5	4,400	G	[56,000] 64,000	G	190,000	C
BROMOXYNIL OCTANOATE	1689-99-2	4,400	G	[56,000] 64,000	G	190,000	C
BUTADIENE, 1,3-	106-99-0	[5.3] 5.5	G	[23] 27	G	85	N
BUTYL ALCOHOL, N-	71-36-3	10,000	C	10,000	C	10,000	C
BUTYLATE	2008-41-5	10,000	C	10,000	C	10,000	C
BUTYLBENZENE, N-	104-51-8	[8,800] 10,000	[G] C	10,000	C	10,000	C
BUTYLBENZENE, SEC-	135-98-8	[8,800] 10,000	[G] C	10,000	C	10,000	C
BUTYLBENZENE, TERT-	98-06-6	[8,800] 10,000	[G] C	10,000	C	10,000	C
BUTYLBENZYL PHTHALATE	85-68-7	[9,400] 9,800	G	10,000	C	10,000	C
CAPTAN	133-06-2	[7,800] 8,100	G	[34,000] 40,000	G	190,000	C
CARBARYL	63-25-2	22,000	G	190,000	C	190,000	C
CARBAZOLE	86-74-8	[900] 930	G	[4,000] 4,600	G	190,000	C
CARBOFURAN	1563-66-2	1,100	G	[14,000] 16,000	G	190,000	C
CARBON DISULFIDE	75-15-0	10,000	C	10,000	C	10,000	C
CARBON TETRACHLORIDE	56-23-5	[30] 74	N	[150] 370	N	[170] 430	N
CARBOXIN	5234-68-4	22,000	G	190,000	C	190,000	C
CHLORAMBEN	133-90-4	3,300	G	[42,000] 48,000	G	190,000	C
CHLORDANE	57-74-9	[51] 53	G	[230] 260	G	190,000	C
CHLORO-1,1-DIFLUOROETHANE, 1-	75-68-3	10,000	C	10,000	C	10,000	C
CHLORO-1-PROPENE, 3- (ALLYL CHLORIDE)	107-05-1	19	N	80	N	91	N
CHLOROACETALDEHYDE	107-20-0	62	G	300	G	10,000	C
CHLOROACETOPHENONE, 2-	532-27-4	190,000	C	190,000	C	190,000	C
CHLOROANILINE, P-	106-47-8	[90] 93	G	[400] 460	G	190,000	C
CHLOROBENZENE	108-90-7	960	N	4,000	N	4,600	N
CHLOROBENZILATE	510-15-6	[160] 170	G	[720] 830	G	190,000	C
CHLOROBUTANE, 1-	109-69-3	8,800	G	10,000	C	10,000	C
CHLORODIBROMOMETHANE	124-48-1	17	N	82	N	95	N
CHLORODIFLUOROMETHANE	75-45-6	10,000	C	10,000	C	10,000	C
CHLOROETHANE	75-00-3	[6,200] 6,400	G	10,000	C	10,000	C
CHLOROFORM	67-66-3	19	N	97	N	110	N
CHLORONAPHTHALENE, 2-	91-58-7	18,000	G	190,000	C	190,000	C
CHLORONITROBENZENE, P-	100-00-5	220	G	[2,800] 3,200	G	190,000	C
CHLOROPHENOL, 2-	95-57-8	1,100	G	10,000	C	10,000	C
CHLOROPRENE	126-99-8	[130] 1.5	N	[560] 7.4	N	[640] 8.5	N
CHLOROPROPANE, 2-	75-29-6	1,900	N	8,000	N	9,100	N
CHLOROTHALONIL	1897-45-6	3,300	G	[26,000] 29,000	G	190,000	C
CHLOROTOLUENE, O-	95-49-8	4,400	G	10,000	C	10,000	C
CHLOROTOLUENE, P-	106-43-4	[10,000] 4,400	C	10,000	C	10,000	C
CHLORPYRIFOS	2921-88-2	[660] 220	G	[8,400] 3,200	G	190,000	C
CHLORSULFURON	64902-72-3	11,000	G	[140,000] 160,000	G	190,000	C

All concentrations in mg/kg

G – Ingestion

N – Inhalation

C – Cap

APPENDIX A
 TABLE 3—MEDIUM-SPECIFIC CONCENTRATIONS (MSCs) FOR ORGANIC REGULATED SUBSTANCES IN SOIL
 A. Direct Contact Numeric Values

REGULATED SUBSTANCE	CASRN	Residential 0-15 feet		Non-Residential			
				Surface Soil 0-2 feet		Subsurface Soil 2-15 feet	
CHLORTHAL-DIMETHYL (DACTHAL) (DCPA)	1861-32-1	2,200	G	[28,000] 32,000	G	190,000	C
CHRYSENE	218-01-9	[570] 580	G	[11,000] 12,000	G	190,000	C
CRESOL(S)	1319-77-3	1,100	G	10,000	C	10,000	C
CRESOL, 4,6-DINITRO-O-	534-52-1	[22] 18	G	[280] 260	G	190,000	C
CRESOL, O- (2-METHYLPHENOL)	95-48-7	11,000	G	[140,000] 160,000	G	190,000	C
CRESOL, M- (3-METHYLPHENOL)	108-39-4	10,000	C	10,000	C	10,000	C
CRESOL, P- (4-METHYLPHENOL)	106-44-5	1,100	G	[14,000] 16,000	G	190,000	C
CRESOL, P-CHLORO-M-	59-50-7	[1,100] 22,000	G	[14,000] 190,000	G	190,000	C
CROTONALDEHYDE	4170-30-3	[9.4] 9.8	G	[42] 48	G	10,000	C
CROTONALDEHYDE, TRANS-	123-73-9	[9.4] 9.8	G	[42] 48	G	10,000	C
CUMENE (ISOPROPYL BENZENE)	98-82-8	7,700	N	10,000	C	10,000	C
CYANAZINE	21725-46-2	[21] 22	G	[94] 110	G	190,000	C
CYCLOHEXANE	110-82-7	10,000	C	10,000	C	10,000	C
CYCLOHEXANONE	108-94-1	10,000	C	10,000	C	10,000	C
CYFLUTHRIN	68359-37-5	5,500	G	[70,000] 80,000	G	190,000	C
CYROMAZINE	66215-27-8	1,700	G	[21,000] 24,000	G	190,000	C
DDD, 4,4'-	72-54-8	[75] 78	G	[330] 380	G	190,000	C
DDE, 4,4'-	72-55-9	[53] 55	G	[230] 270	G	190,000	C
DDT, 4,4'-	50-29-3	[53] 55	G	[230] 270	G	190,000	C
DI(2-ETHYLHEXYL)ADIPATE	103-23-1	10,000	C	10,000	C	10,000	C
DIALATE	2303-16-4	[290] 300	G	[1,300] 1,500	G	10,000	C
DIAMINOTOLUENE, 2,4-	95-80-7	[4.7] 4.9	G	[21] 24	G	190,000	C
DIAZINON	333-41-5	150	G	[2,000] 2,200	G	10,000	C
DIBENZO[A,H]ANTHRACENE	53-70-3	[0.57] 0.58	G	[11] 12	G	190,000	C
DIBENZOFURAN	132-64-9	220	G	[2,800] 3,200	G	190,000	C
DIBROMO-3-CHLOROPROPANE, 1,2-	96-12-8	0.029	N	0.37	N	0.43	N
DIBROMOBENZENE, 1,4-	106-37-6	2,200	G	[28,000] 32,000	G	190,000	C
DIBROMOETHANE, 1,2- (ETHYLENE DIBROMIDE)	106-93-4	0.74	N	3.7	N	4.3	N
DIBROMOMETHANE	74-95-3	[2,200] 77	[G] N	[10,000] 320	[C] N	[10,000] 370	[C] N
DIBUTYL PHTHALATE, N-	84-74-2	10,000	C	10,000	C	10,000	C
DICAMBA	1918-00-9	6,600	G	[84,000] 96,000	G	190,000	C
DICHLOROACETIC ACID	76-43-6	[880] 370	G	[10,000] 1,800	[C] G	10,000	C
DICHLORO-2-BUTENE, 1,4-	764-41-0	0.11	N	0.53	N	0.61	N
DICHLORO-2-BUTENE, TRANS-1,4-	110-57-6	0.1	N	[1] 0.52	N	[1] 0.6	N
DICHLOROBENZENE, 1,2-	95-50-1	3,800	N	10,000	C	10,000	C
DICHLOROBENZENE, 1,3-	541-73-1	660	G	[8,400] 9,600	G	10,000	C
DICHLOROBENZENE, P-	106-46-7	40	N	200	N	230	N
DICHLOROBENZIDINE, 3,3'-	91-94-1	[40] 41	G	[180] 200	G	190,000	C
DICHLORODIFLUOROMETHANE (FREON 12)	75-71-8	[3,900] 1,900	N	[10,000] 8,000	[C] N	[10,000] 9,100	[C] N
DICHLOROETHANE, 1,1-	75-34-3	280	N	1,400	N	1,600	N
DICHLOROETHANE, 1,2-	107-06-2	17	N	86	N	98	N
DICHLOROETHYLENE, 1,1-	75-35-4	3,800	N	10,000	C	10,000	C
DICHLOROETHYLENE, CIS-1,2-	156-59-2	[2,200] 440	G	[10,000] 6,400	[C] G	10,000	C
DICHLOROETHYLENE, TRANS-1,2-	156-60-5	1,100	N	4,800	N	5,500	N
DICHLOROMETHANE (METHYLENE CHLORIDE)	75-09-2	[950] 1,300	[N] G	[4,700] 10,000	[N] C	[5,400] 10,000	[N] C
DICHLOROPHENOL, 2,4-	120-83-2	660	G	[8,400] 9,600	G	190,000	C

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APPENDIX A
TABLE 3—MEDIUM-SPECIFIC CONCENTRATIONS (MSCs) FOR ORGANIC REGULATED SUBSTANCES IN SOIL
A. Direct Contact Numeric Values

REGULATED SUBSTANCE	CASRN	Residential 0-15 feet		Non-Residential			
				Surface Soil 0-2 feet		Subsurface Soil 2-15 feet	
DICHLOROPHENOXYACETIC ACID, 2,4-(2,4-D)	94-75-7	2,200	G	[28,000] 32,000	G	190,000	C
DICHLOROPROPANE, 1,2-	78-87-5	45	N	220	N	260	N
DICHLOROPROPENE, 1,3-	542-75-6	110	N	560	N	640	N
DICHLOROPROPIONIC ACID, 2,2-(DALAPON)	75-99-0	6,600	G	10,000	C	10,000	C
DICHLORVOS	62-73-7	[62] 64	G	[270] 310	G	10,000	C
DICYCLOPENTADIENE	77-73-6	130	N	550	N	630	N
DIELDRIN	60-57-1	[1.1] 1.2	G	[5] 6	G	190,000	C
DIETHANOLAMINE	111-42-2	10,000	C	10,000	C	10,000	C
DIETHYL PHTHALATE	84-66-2	10,000	C	10,000	C	10,000	C
DIFLUBENZURON	35367-38-5	4,400	G	[56,000] 64,000	G	190,000	C
DIISOPROPYL METHYLPHOSPHONATE	1445-75-6	10,000	C	10,000	C	10,000	C
DIMETHOATE	60-51-5	44	G	[560] 640	G	190,000	C
DIMETHOXYBENZIDINE, 3,3-	119-90-4	1,300	G	[5,700] 6,500	G	190,000	C
DIMETHRIN	70-38-2	66,000	G	190,000	C	190,000	C
DIMETHYLAMINOAZOBENZENE, P-	60-11-7	[3.9] 4	G	[17] 20	G	190,000	C
DIMETHYLANILINE, N,N-	121-69-7	440	G	[5,600] 6,400	G	10,000	C
DIMETHYLBENZIDINE, 3,3-	119-93-7	[1.6] 1.7	G	[7.2] 8.3	G	190,000	C
DIMETHYL METHYLPHOSPHONATE	756-79-6	10,000	C	10,000	C	10,000	C
DIMETHYLPHENOL, 2,4-	105-67-9	4,400	G	10,000	C	10,000	C
DINITROBENZENE, 1,3-	99-65-0	22	G	[280] 320	G	190,000	C
DINITROPHENOL, 2,4-	51-28-5	440	G	[5,600] 6,400	G	190,000	C
DINITROTOLUENE, 2,4-	121-14-2	[58] 60	G	[260] 290	G	190,000	C
DINITROTOLUENE, 2,6- (2,6-DNT)	606-20-2	220	G	[2,800] 3,200	G	190,000	C
DINOSEB	88-85-7	220	G	[2,800] 3,200	G	190,000	C
DIOXANE, 1,4-	123-91-1	[58] 89	N	[290] 440	N	[330] 510	N
DIPHENAMID	957-51-7	6,600	G	[84,000] 96,000	G	190,000	C
DIPHENYLAMINE	122-39-4	5,500	G	[70,000] 80,000	G	190,000	C
DIPHENYLHYDRAZINE, 1,2-	122-66-7	[22] 23	G	[99] 110	G	190,000	C
DIQUAT	85-00-7	480	G	[6,200] 7,000	G	190,000	C
DISULFOTON	298-04-4	8.8	G	[110] 130	G	10,000	C
DITHIANE, 1,4-	505-29-3	2,200	G	[28,000] 32,000	G	190,000	C
DIURON	330-54-1	440	G	[5,600] 6,400	G	190,000	C
ENDOSULFAN	115-29-7	1,300	G	[17,000] 19,000	G	190,000	C
ENDOSULFAN I (ALPHA)	959-98-8	1,300	G	[17,000] 19,000	G	190,000	C
ENDOSULFAN II (BETA)	33213-65-9	1,300	G	[17,000] 19,000	G	190,000	C
ENDOSULFAN SULFATE	1031-07-8	1,300	G	[17,000] 19,000	G	190,000	C
ENDOTHALL	145-73-3	4,400	G	[56,000] 64,000	G	190,000	C
ENDRIN	72-20-8	66	G	[840] 960	G	190,000	C
EPICHLOROHYDRIN	106-89-8	19	N	79	N	91	N
ETHEPHON	16672-87-0	1,100	G	[14,000] 16,000	G	190,000	C
ETHION	563-12-2	110	G	[1,400] 1,600	G	10,000	C
ETHOXYETHANOL, 2- (EGEE)	110-80-5	3,900	N	10,000	C	10,000	C
ETHYL ACETATE	141-78-6	10,000	C	10,000	C	10,000	C
ETHYL ACRYLATE	140-88-5	[370] 390	G	[1,700] 1,900	G	10,000	C
ETHYL BENZENE	100-41-4	10,000	C	10,000	C	10,000	C
ETHYL DIPROPYLTHIOCARBAMATE, S-(EPTC)	759-94-4	5,500	G	10,000	C	10,000	C
ETHYL ETHER	60-29-7	10,000	C	10,000	C	10,000	C
ETHYL METHACRYLATE	97-63-2	[10,000] 5,700	[C] N	10,000	C	10,000	C
ETHYLENE CHLORHYDRIN	107-07-3	4,400	G	10,000	C	10,000	C

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APPENDIX A
 TABLE 3—MEDIUM-SPECIFIC CONCENTRATIONS (MSCs) FOR ORGANIC REGULATED SUBSTANCES IN SOIL
 A. Direct Contact Numeric Values

REGULATED SUBSTANCE	CASRN	Residential 0-15 feet		Non-Residential			
				Surface Soil 0-2 feet		Subsurface Soil 2-15 feet	
ETHYLENE GLYCOL	107-21-1	7,700	N	10,000	C	10,000	C
ETHYLENE THIOUREA (ETU)	96-45-7	18	G	[220] 260	G	190,000	C
ETHYLP-NITROPHENYL PHENYLPHOSPHOROTHIOATE	2104-64-5	2.2	G	[28] 32	G	190,000	C
FENAMIPHOS	22224-92-6	55	G	[700] 800	G	190,000	C
FENVALERATE (PYDRIN)	51630-58-1	5,500	G	10,000	C	10,000	C
FLUOMETURON	2164-17-2	2,900	G	[36,000] 42,000	G	190,000	C
FLUORANTHENE	206-44-0	8,800	G	[110,000] 130,000	G	190,000	C
FLUORENE	86-73-7	8,800	G	[110,000] 130,000	G	190,000	C
FLUOROTRICHLOROMETHANE (FREON 11)	75-69-4	10,000	C	10,000	C	10,000	C
FONOFOS	944-22-9	440	G	[5,600] 6,400	G	10,000	C
FORMALDEHYDE	50-00-0	34	N	170	N	200	N
FORMIC ACID	64-18-6	[57] 6	N	[240] 24	N	[270] 27	N
FOSETYL-AL	39148-24-8	190,000	C	190,000	C	190,000	C
FURAN	110-00-9	220	G	[2,800] 3,200	G	10,000	C
FURFURAL	98-01-1	660	G	4,000	N	4,500	N
GLYPHOSATE	1071-83-6	22,000	G	190,000	C	190,000	C
HEPTACHLOR	76-44-8	4	G	[18] 20	G	190,000	C
HEPTACHLOR EPOXIDE	1024-57-3	2	G	[8.7] 10	G	190,000	C
HEXACHLOROBENZENE	118-74-1	[11] 12	G	[50] 57	G	190,000	C
HEXACHLOROBTADIENE	87-68-3	220	G	[1,000] 1,200	G	10,000	C
HEXACHLOROCYCLOPENTADIENE	77-47-4	1,300	G	10,000	C	10,000	C
HEXACHLOROETHANE	67-72-1	[110] 44	N	[550] 220	N	[640] 260	N
HEXANE	110-54-3	10,000	C	10,000	C	10,000	C
HEXAZINONE	51235-04-2	7,300	G	[92,000] 110,000	G	190,000	C
HEXYTHIAZOX (SAVEY)	78587-05-0	5,500	G	[70,000] 80,000	G	190,000	C
HMX	2691-41-0	11,000	G	[140,000] 160,000	G	190,000	C
HYDRAZINE/HYDRAZINE SULFATE	302-01-2	0.09	N	0.45	N	0.52	N
HYDROQUINONE	123-31-9	[320] 310	G	[1,400] 1,500	G	190,000	C
INDENO[1,2,3-CD]PYRENE	193-39-5	[5.7] 5.8	G	[110] 120	G	190,000	C
IPRODIONE	36734-19-7	8,800	G	[110,000] 130,000	G	190,000	C
ISOBUTYL ALCOHOL	78-83-1	10,000	C	10,000	C	10,000	C
ISOPHORONE	78-59-1	10,000	C	10,000	C	10,000	C
ISOPROPYL METHYLPHOSPHONATE	1832-54-8	10,000	C	10,000	C	10,000	C
KEPONE	143-50-0	[1.1] 1.9	G	[5] 9.1	G	190,000	C
MALATHION	121-75-5	4,400	G	10,000	C	10,000	C
MALEIC HYDRAZIDE	123-33-1	110,000	G	190,000	C	190,000	C
MANEB	12427-38-2	1,100	G	[14,000] 16,000	G	190,000	C
MERPHOS OXIDE	78-48-8	6.6	G	[84] 96	G	10,000	C
METHACRYLONITRILE	126-98-7	[13] 22	[N] G	[56] 320	[N] G	[64] 2,800	N
METHAMIDOPHOS	10265-92-6	11	G	[140] 160	G	190,000	C
METHANOL	67-56-1	10,000	C	10,000	C	10,000	C
METHOMYL	16752-77-5	5,500	G	[70,000] 80,000	G	190,000	C
METHOXYCHLOR	72-43-5	1,100	G	[14,000] 16,000	G	190,000	C
METHOXYETHANOL, 2-	109-86-4	380	N	1,600	N	1,800	N
METHYL ACETATE	79-20-9	10,000	C	10,000	C	10,000	C
METHYL ACRYLATE	96-33-3	[6,600] 380	[G] N	[10,000] 1,600	[C] N	[10,000] 1,800	[C] N
METHYL CHLORIDE	74-87-3	250	N	1,200	N	1,400	N
METHYL ETHYL KETONE	78-93-3	10,000	C	10,000	C	10,000	C
METHYL HYDRAZINE	60-34-4	0.38	N	1.6	N	1.8	N

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REGULATED SUBSTANCE	CASRN	Residential 0-15 feet	Non-Residential				
			Surface Soil 0-2 feet		Subsurface Soil 2-15 feet		
METHYL ISOBUTYL KETONE	108-10-1	10,000	C	10,000	C	10,000	C
METHYL ISOCYANATE	624-83-9	19	N	79	N	91	N
METHYL N-BUTYL KETONE (2- HEXANONE)	591-78-6	[96] 570	N	[400] 2,400	N	[460] 2,800	N
METHYL METHACRYLATE	80-62-6	10,000	C	10,000	C	10,000	C
METHYL METHANESULFONATE	66-27-3	[180] 190	G	[800] 920	G	10,000	C
METHYL PARATHION	298-00-0	55	G	[700] 800	G	190,000	C
METHYL STYRENE (MIXED ISOMERS)	25013-15-4	770	N	3,200	N	3,600	N
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	[620] 1,700	[G] N	[3,200] 8,600	N	[3,700] 9,900	N
METHYLCHLOROPHENOXYACETIC ACID (MCPA)	94-74-6	110	G	[1,400] 1,600	C	190,000	C
METHYLENE BIS(2-CHLOROANILINE), 4,4'-	101-14-4	42	G	[790] 910	G	190,000	C
METHYLNAPHTHALENE, 2- METHYLSTYRENE, ALPHA	91-57-6	880	G	[11,000] 13,000	G	190,000	C
METHYLSTYRENE, ALPHA	98-83-9	10,000	C	10,000	C	10,000	C
METOLACHLOR	51218-45-2	10,000	C	10,000	C	10,000	C
METRIBUZIN	21087-64-9	5,500	G	[70,000] 80,000	G	190,000	C
MONOCHLOROACETIC ACID	79-11-8	[2,200] 440	G	[28,000] 6,400	G	190,000	C
NAPHTHALENE	91-20-3	4,400	G	[56,000] 64,000	G	190,000	C
NAPHTHYLAMINE, 1- NAPHTHYLAMINE, 2- NAPROPAMIDE	134-32-7	[9.9] 10	G	[44] 51	G	190,000	C
NAPHTHYLAMINE, 2- NAPROPAMIDE	91-59-8	[9.9] 10	G	[44] 51	G	190,000	C
NAPROPAMIDE	15299-99-7	22,000	G	190,000	C	190,000	C
NITROANILINE, M- NITROANILINE, O- NITROANILINE, P- NITROBENZENE	99-09-2	66	G	[840] 960	G	190,000	C
NITROANILINE, O- NITROANILINE, P- NITROBENZENE	88-74-4	[660] 2,200	G	[8,400] 32,000	G	190,000	C
NITROANILINE, P- NITROBENZENE	100-01-6	880	G	[4,000] 4,600	G	190,000	C
NITROBENZENE	98-95-3	440	G	[5,600] 6,400	G	10,000	C
NITROGUANIDINE	556-88-7	22,000	G	190,000	C	190,000	C
NITROPHENOL, 2- NITROPHENOL, 4- NITROPROPANE, 2- NITROSODIETHYLAMINE, N- NITROSODIMETHYLAMINE, N- NITROSO-DI-N-BUTYLAMINE, N- NITROSODI-N-PROPYLAMINE, N- NITROSODIPHENYLAMINE, N- NITROSO-N-ETHYLUREA, N- OCTYL PHTHALATE, DI-N-	88-75-5	1,800	G	[22,000] 26,000	G	190,000	C
NITROPHENOL, 4- NITROPROPANE, 2- NITROSODIETHYLAMINE, N- NITROSODIMETHYLAMINE, N- NITROSO-DI-N-BUTYLAMINE, N- NITROSODI-N-PROPYLAMINE, N- NITROSODIPHENYLAMINE, N- NITROSO-N-ETHYLUREA, N- OCTYL PHTHALATE, DI-N-	100-02-7	1,800	G	[22,000] 26,000	G	190,000	C
NITROPROPANE, 2- NITROSODIETHYLAMINE, N- NITROSODIMETHYLAMINE, N- NITROSO-DI-N-BUTYLAMINE, N- NITROSODI-N-PROPYLAMINE, N- NITROSODIPHENYLAMINE, N- NITROSO-N-ETHYLUREA, N- OCTYL PHTHALATE, DI-N-	79-46-9	0.16	N	0.82	N	0.94	N
NITROSODIETHYLAMINE, N- NITROSODIMETHYLAMINE, N- NITROSO-DI-N-BUTYLAMINE, N- NITROSODI-N-PROPYLAMINE, N- NITROSODIPHENYLAMINE, N- NITROSO-N-ETHYLUREA, N- OCTYL PHTHALATE, DI-N-	55-18-5	0.0041	N	0.051	N	0.059	N
NITROSODIMETHYLAMINE, N- NITROSO-DI-N-BUTYLAMINE, N- NITROSODI-N-PROPYLAMINE, N- NITROSODIPHENYLAMINE, N- NITROSO-N-ETHYLUREA, N- OCTYL PHTHALATE, DI-N-	62-75-9	0.012	N	0.16	N	0.18	N
NITROSO-DI-N-BUTYLAMINE, N- NITROSODI-N-PROPYLAMINE, N- NITROSODIPHENYLAMINE, N- NITROSO-N-ETHYLUREA, N- OCTYL PHTHALATE, DI-N-	924-16-3	[3.3] 3.4	G	[15] 17	G	10,000	C
NITROSODI-N-PROPYLAMINE, N- NITROSODIPHENYLAMINE, N- NITROSO-N-ETHYLUREA, N- OCTYL PHTHALATE, DI-N-	621-64-7	[2.6] 2.7	G	[11] 13	G	10,000	C
NITROSODIPHENYLAMINE, N- NITROSO-N-ETHYLUREA, N- OCTYL PHTHALATE, DI-N-	86-30-6	[3,700] 3,800	G	[16,000] 19,000	G	190,000	C
NITROSO-N-ETHYLUREA, N- OCTYL PHTHALATE, DI-N-	759-73-9	[0.15] 0.16	G	[2.9] 3.4	G	190,000	C
OCTYL PHTHALATE, DI-N-	117-84-0	[8,800] 2,200	G	10,000	C	10,000	C
OXAMYL (VYDATE)	23135-22-0	5,500	G	[70,000] 80,000	G	190,000	C
PARAQUAT	1910-42-5	990	G	[13,000] 14,000	G	190,000	C
PARATHION	56-38-2	1,300	G	10,000	C	10,000	C
PCB-1016 (AROCLOR)	12674-11-2	15	G	[200] 220	G	10,000	C
PCB-1221 (AROCLOR)	11104-28-2	9	G	[40] 46	G	10,000	C
PCB-1232 (AROCLOR)	11141-16-5	9	G	[40] 46	G	10,000	C
PCB-1242 (AROCLOR)	53469-21-9	9	G	[40] 46	G	10,000	C
PCB-1248 (AROCLOR)	12672-29-6	[9] 9.3	G	[40] 46	G	10,000	C
PCB-1254 (AROCLOR)	11097-69-1	4.4	G	[40] 46	G	10,000	C
PCB-1260 (AROCLOR)	11096-82-5	9	G	[40] 46	G	190,000	C
PEBULATE	1114-71-2	10,000	C	10,000	C	10,000	C
PENTACHLOROENZENE	608-93-5	180	G	[2,200] 2,600	G	190,000	C
PENTACHLOROETHANE	76-01-7	[200] 210	G	[880] 1,000	G	10,000	C
PENTACHLORONITROBENZENE	82-68-8	[69] 72	G	[310] 350	G	190,000	C

All concentrations in mg/kg

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REGULATED SUBSTANCE	CASRN	Residential 0-15 feet	Non-Residential				
			Surface Soil 0-2 feet		Subsurface Soil 2-15 feet		
PENTACHLOROPHENOL	87-86-5	[150] 47	G	[660] 230	G	190,000	C
PHENACETIN	62-44-2	[8,100] 8,500	G	[36,000] 41,000	G	190,000	C
PHENANTHRENE	85-01-8	66,000	G	190,000	C	190,000	C
PHENOL	108-95-2	[66,000] 3,800	[G] N	[190,000] 16,000	[C] N	[190,000] 18,000	[C] N
PHENYL MERCAPTAN	108-98-5	[2.2] 220	G	[28] 3,200	[N] G	10,000	[N] C
PHENYLENEDIAMINE, M-	108-45-2	1,300	G	[17,000] 19,000	G	190,000	C
PHENYLPHENOL, 2-	90-43-7	[9,400] 9,800	G	[42,000] 48,000	G	190,000	C
PHORATE	298-02-2	44	G	[560] 640	G	10,000	C
PHTHALIC ANHYDRIDE	85-44-9	190,000	C	190,000	C	190,000	C
PICLORAM	1918-02-1	15,000	G	190,000	C	190,000	C
PROMETON	1610-18-0	3,300	G	[42,000] 48,000	G	190,000	C
PRONAMIDE	23950-58-5	17,000	G	190,000	C	190,000	C
PROPANIL	709-98-8	1,100	G	[14,000] 16,000	G	190,000	C
PROPANOL, 2- (ISOPROPYL ALCOHOL)	67-63-0	10,000	C	10,000	C	10,000	C
PROPAZINE	139-40-2	4,400	G	10,000	C	10,000	C
PROPHAM	122-42-9	4,400	G	[56,000] 64,000	G	190,000	C
PROPYLBENZENE, N-	103-65-1	[8,800] 10,000	[G] C	10,000	C	10,000	C
PROPYLENE OXIDE	75-56-9	[75] 78	G	[330] 380	G	690	N
PYRENE	129-00-0	6,600	G	[84,000] 96,000	G	190,000	C
PYRIDINE	110-86-1	220	G	[2,800] 3,200	G	10,000	C
QUINOLINE	91-22-5	6	G	[26] 30	G	10,000	C
QUIZALOFOP (ASSURE)	76578-14-8	2,000	G	[25,000] 29,000	G	190,000	C
RDX	121-82-4	[160] 170	G	[720] 830	G	190,000	C
RESORCINOL	108-46-3	190,000	C	190,000	C	190,000	C
RONNEL	299-84-3	11,000	G	[140,000] 160,000	G	190,000	C
SIMAZINE	122-34-9	[150] 160	G	[660] 760	G	190,000	C
STRYCHNINE	57-24-9	66	G	[840] 960	G	190,000	C
STYRENE	100-42-5	10,000	C	10,000	C	10,000	C
TEBUTHIURON	34014-18-1	15,000	G	190,000	C	190,000	C
TERBACIL	5902-51-2	2,900	G	[36,000] 42,000	G	190,000	C
TERBUFOS	13071-79-9	5.5	G	[70] 80	G	10,000	C
TETRACHLOROBENZENE, 1,2,4,5-	95-94-3	66	G	[840] 960	G	190,000	C
TETRACHLORODIBENZO-P-DIOXIN, 2,3,7,8- (TCDD)	1746-01-6	0.00014	G	[0.00061] 0.0007	G	190,000	C
TETRACHLOROETHANE, 1,1,1,2-	630-20-6	60	N	300	N	340	N
TETRACHLOROETHANE, 1,1,2,2-	79-34-5	7.7	N	38	N	44	N
TETRACHLOROETHYLENE (PCE)	127-18-4	[340] 770	[G] N	[1,500] 3,200	[G] N	[4,400] 3,600	N
TETRACHLOROPHENOL, 2,3,4,6-	58-90-2	6,600	G	[84,000] 96,000	G	190,000	C
TETRAETHYL LEAD	78-00-2	0.022	G	[0.28] 0.32	G	10,000	C
TETRAETHYLDITHIOPYROPHOSPHATE	3689-24-5	110	G	[1,400] 1,600	G	10,000	C
TETRAHYDROFURAN	109-99-9	[230] 240	N	[1,100] 1,200	N	[1,300] 1,400	N
THIOFANOX	39196-18-4	66	G	[840] 960	G	190,000	C
THIRAM	137-26-8	1,100	G	[14,000] 16,000	G	190,000	C
TOLUENE	108-88-3	10,000	C	10,000	C	10,000	C
TOLUIDINE, M-	108-44-1	[99] 100	G	[440] 510	G	10,000	C
TOLUIDINE, O-	95-53-4	[99] 1,200	G	[440] 5,700	G	10,000	C
TOLUIDINE, P-	106-49-0	[94] 620	G	[420] 3,000	G	190,000	C
TOXAPHENE	8001-35-2	[16] 17	G	[72] 83	G	190,000	C

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REGULATED SUBSTANCE	CASRN	Residential 0-15 feet		Non-Residential			
				Surface Soil 0-2 feet		Subsurface Soil 2-15 feet	
TRIALATE	2303-17-5	2,900	G	10,000	C	10,000	C
TRIBROMOMETHANE (BROMOFORM)	75-25-2	410	N	2,000	N	2,300	N
TRICHLORO-1,2,2-TRIFLUOROETHANE, 1,1,2-	76-13-1	10,000	C	10,000	C	10,000	C
TRICHLOROACETIC ACID	76-03-9	270	G	1,300	G	190,000	C
TRICHLOROBENZENE, 1,2,4-	120-82-1	[2,200] 640	G	[10,000] 3,100	[C] G	10,000	C
TRICHLOROBENZENE, 1,3,5-	108-70-3	1,300	G	[17,000] 19,000	G	190,000	C
TRICHLOROETHANE, 1,1,1-	71-55-6	10,000	C	10,000	C	10,000	C
TRICHLOROETHANE, 1,1,2-	79-00-5	[28] 4	N	[140] 16	N	[160] 18	N
TRICHLOROETHYLENE (TCE)	79-01-6	[260] 38	N	[1,300] 160	N	[1,500] 180	N
TRICHLOROPHENOL, 2,4,5-	95-95-4	22,000	G	190,000	C	190,000	C
TRICHLOROPHENOL, 2,4,6-	88-06-2	220	G	[2,800] 3,200	G	190,000	C
TRICHLOROPHENOXYACETIC ACID, 2,4,5- (2,4,5-T)	93-76-5	2,200	G	[28,000] 32,000	G	190,000	C
TRICHLOROPHENOXYPROPIONIC ACID, 2,4,5- (2,4,5-TP)(SILVEX)	93-72-1	1,800	G	[22,000] 26,000	G	190,000	C
TRICHLOROPROPANE, 1,1,2-	598-77-6	1,100	G	10,000	C	10,000	C
TRICHLOROPROPANE, 1,2,3-	96-18-4	[2.6] 0.027	G	[11] 0.6	G	[460] 28	N
TRICHLOROPROPENE, 1,2,3-	96-19-5	[19] 5.7	N	[80] 24	N	[91] 27	N
TRIETHYLAMINE	121-44-8	130	N	560	N	640	N
TRIFLURALIN	1582-09-8	1,700	G	[10,000] 12,000	G	190,000	C
TRIMETHYLBENZENE, 1,3,4- (TRIMETHYLBENZENE, 1,2,4-)	95-63-6	130	N	560	N	640	N
TRIMETHYLBENZENE, 1,3,5-	108-67-8	[110] 2,200	[N] G	[480] 10,000	[N] C	[550] 10,000	[N] C
TRINITROGLYCEROL (NITROGLYCERIN)	55-63-0	22	G	[280] 320	G	10,000	C
TRINITROTOLUENE, 2,4,6-	118-96-7	110	G	[1,400] 1,600	G	190,000	C
VINYL ACETATE	108-05-4	3,900	N	10,000	C	10,000	C
VINYL BROMIDE (BROMOETHENE)	593-60-2	14	N	70	N	80	N
VINYL CHLORIDE	75-01-4	[1.9] 0.9	G	[110] 61	G	[580] 280	N
WARFARIN	81-81-2	66	G	[840] 960	G	190,000	C
XYLENES (TOTAL)	1330-20-7	1,900	N	8,000	N	9,100	N
ZINEB	12122-67-7	11,000	G	[140,000] 160,000	G	190,000	C

All concentrations in mg/kg

G – Ingestion

N – Inhalation

C – Cap

APPENDIX A
TABLE 3—MEDIUM-SPECIFIC CONCENTRATIONS (MSCs) FOR ORGANIC REGULATED SUBSTANCES IN SOIL
B. Soil to Groundwater Numeric Values¹

REGULATED SUBSTANCE	CASRN	Used Aquifers						Non-Use Aquifers						Soil Buffer Distance (feet)						
		TDS ≤ 2500			TDS > 2500			Residential			Non-Residential									
		Residential		Non-Residential	Residential		Non-Residential	Residential		Non-Residential	Residential		Non-Residential							
		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value							
ACENAPHTHENE	83-32-9	[220] 250	[2,700] 3,100	E	380	4,700	E	380	4,700	E	380	4,700	E	380	4,700	E	15			
ACENAPHTHYLENE	208-96-8	[220] 250	[2,500] 2,800	E	[610] 700	[6,900] 8,000	E	1,600	18,000	E	1,600	18,000	E	1,600	18,000	E	15			
ACEPHATE	30560-19-1	[7.6] 8.4	[0.9] 1.0	E	[30] 39	[3.6] 4.6	E	[760] 840	[90] 100	E	[3,000] 3,900	[360] 460	E	[7.6] 8.4	[0.9] 1.0	E	[30] 39	[3.6] 4.6	E	NA
ACETALDEHYDE	75-07-0	1.9	0.23	E	7.9	0.96	E	190	23	E	790	96	E	1.9	0.23	E	7.9	0.96	E	NA
ACETONE	67-64-1	[3,300] 3,800	[370] 430	E	[9,200] 10,000	[1,000] 1,200	E	10,000	10,000	C	10,000	10,000	C	10,000	[3,700] 4,300	E	10,000	10,000	C	NA
ACETONITRILE	75-05-8	13	1.5	E	53	6	E	1,300	150	E	5,300	600	E	130	15	E	530	60	E	NA
ACETOPHENONE	98-86-2	[370] 420	[200] 230	E	[1,000] 1,200	[540] 640	E	10,000	10,000	C	10,000	10,000	C	[370] 420	[200] 230	E	[1,000] 1,200	[540] 640	E	NA
ACETYLAMINOFLUORENE, 2-(2AA)	53-96-3	[0.017] 0.019	[0.07] 0.08	E	[0.068] 0.089	[0.28] 0.37	E	[1.7] 1.9	[7] 8	E	[6.8] 8.9	[28] 37	E	[17] 19	[70] 78	E	[68] 89	[280] 370	E	20
ACROLEIN	107-02-8	0.0042	0.00047	E	0.018	0.002	E	0.42	0.047	E	1.8	0.2	E	0.042	0.0047	E	0.18	0.02	E	NA
ACRYLAMIDE	79-06-1	[0.0038] 0.019	[0.006] 0.0033	E	[0.019] 0.025	[0.0033] 0.043	E	[0.4] 1.9	[0.07] 0.33	E	[1.9] 25	[0.33] 4.3	E	[0.004] 0.019	[0.007] 0.0033	E	[0.019] 0.25	[0.0033] 0.043	E	NA
ACRYLIC ACID	79-10-7	0.21	0.039	E	0.88	0.16	E	21	3.9	E	88	16	E	21	3.9	E	88	16	E	NA
ACRYLONITRILE	107-13-1	0.072	0.01	E	0.37	0.051	E	7.2	1	E	37	5.1	E	7.2	1	E	37	5.1	E	NA
ALACHLOR	15972-60-8	0.2	0.077	E	0.2	0.077	E	20	7.7	E	20	7.7	E	20	7.7	E	0.2	0.077	E	NA
ALDICARB	116-06-3	0.3	0.05	E	0.3	0.05	E	30	5	E	30	5	E	300	50	E	300	50	E	NA
ALDICARB SULFONE	1646-88-4	0.2	0.027	E	0.2	0.027	E	20	2.7	E	20	2.7	E	20	2.7	E	0.2	0.027	E	NA
ALDICARB SULFOXIDE	1646-87-3	0.4	0.045	E	0.4	0.045	E	40	4.5	E	40	4.5	E	40	4.5	E	0.4	0.045	E	NA
ALDRIN	309-00-2	[0.0039] 0.0043	[0.47] 0.52	E	[0.015] 0.02	[1.8] 2.4	E	[0.39] 0.43	[47] 52	E	[1.5] 2.0	[180] 240	E	2	240	E	2	240	E	10
ALLYL ALCOHOL	107-18-6	[0.063] 0.021	[0.0075] 0.0025	E	[0.26] 0.088	[0.031] 0.01	E	[6.3] 2.1	[0.75] 0.25	E	[26] 9	[3.1] 1	E	[6.3] 2.1	[0.75] 0.25	E	[26] 9	[3.1] 1	E	NA
AMETRYN	834-12-8	6	6.5	E	6	6.5	E	600	650	E	600	650	E	6	6.5	E	6	6.5	E	NA
AMINOBIPHENYL, 4-	92-67-1	[0.0031] 0.0035	[0.0012] 0.0014	E	[0.012] 0.016	[0.0046] 0.0062	E	[0.31] 0.35	[0.12] 0.14	E	[1.2] 1.6	[0.46] 0.62	E	[3.1] 3.5	[1.2] 1.4	E	[12] 16	[4.6] 6.2	E	NA
AMITROLE	61-82-5	[0.07] 0.078	[0.029] 0.032	E	[0.28] 0.36	[0.12] 0.15	E	[7] 8	[2.9] 3.2	E	[28] 36	[12] 15	E	[70] 78	[29] 32	E	[280] 360	[120] 150	E	NA
AMMONIA	7664-41-7	3,000	360	E	3,000	360	E	10,000	10,000	C	10,000	10,000	C	3,000	360	E	3,000	360	E	NA
AMMONIUM SULFAMATE	7773-06-0	200	24	E	200	24	E	20,000	2,400	E	20,000	2,400	E	200	24	E	200	24	E	NA
ANILINE	62-53-3	0.21	0.12	E	0.88	0.52	E	21	12	E	88	52	E	21	12	E	88	52	E	NA
ANTHRACENE	120-12-7	6.6	350	E	6.6	350	E	6.6	350	E	6.6	350	E	6.6	350	E	6.6	350	E	10
ATRAZINE	1912-24-9	0.3	0.13	E	0.3	0.13	E	30	13	E	30	13	E	0.3	0.13	E	0.3	0.13	E	NA

¹ For other options see § 250.308
 All concentrations in mg/kg
 E – Number calculated by the soil to groundwater equation in § 250.308
 C – Cap

NA – The soil buffer distance option is not available for this substance
THMs – The values listed for trihalomethanes (THMs) are the total for all THMs combined.
HAAs – The values listed for haloacetic acids (HAAs) are the total for all HAAs combined.

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 B. Soil to Groundwater Numeric Values¹

REGULATED SUBSTANCE	CASRN	Used Aquifers						Non-Use Aquifers						Soil Buffer Distance (feet)	
		TDS ≤ 2500			TDS > 2500			Residential			Non-Residential				
		Residential		Non-Residential	Residential		Non-Residential	Residential		Non-Residential	Residential		Non-Residential		
		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value		
AZINPHOS-METHYL (GUTHION)	86-50-0	[11] 13	[12] 15	[31] 35	[35] 40	[1,100] 1,300	[1,200] 1,500	[3,100] 3,200	[3,500] 3,600	[11] 13	[12] 15	[31] 35	[35] 40	E	NA
BAYGON (PROPOXUR)	114-26-1	0.3	0.057 E	0.3	0.057 E	30	5.7 E	30	5.7 E	300	57 E	300	57 E	E	NA
BENOMYL	17804-35-2	[180] 200	[880] 970	200	970 E	200	970 E	200	970 E	[180] 200	[880] 970	200	970 E	E	20
BENTAZON	25057-89-0	20	2.9 E	20	2.9 E	2,000	290 E	2,000	290 E	20	2.9 E	20	2.9 E	E	NA
BENZENE	71-43-2	0.5	0.13 E	0.5	0.13 E	50	13 E	50	13 E	50	13 E	50	13 E	E	NA
BENZIDINE	92-87-5	[0.00093] 0.13	[0.12] 0.13	[0.0011] 0.0015	[1.5] 2	[0.0093] 0.0098	[12] 13	[0.11] 0.15	[150] 200	[0.093] 0.098	[120] 130	[1.1] 1.5	[1,500] 2,000	E	5
BENZO(A)ANTHRACENE	56-55-3	[0.029] 0.032	[25] 28	[0.36] 0.49	[320] 430	E	960 E	E	960 E	1.1	960 E	1.1	960 E	E	5
BENZO(A)PYRENE	50-32-8	0.02	46 E	0.02	46 E	0.38	860 E	0.38	860 E	0.38	860 E	0.38	860 E	E	5
BENZO(B)FLUORANTHENE	205-99-2	[0.029] 0.031	[40] 43	E	170 E	E	170 E	E	170 E	E	170 E	E	170 E	E	5
BENZO(G)HUIPERYLENE	191-24-2	0.026	180 E	0.026	180 E	0.026	180 E	0.026	180 E	0.026	180 E	0.026	180 E	E	5
BENZO(K)FLUORANTHENE	207-08-9	0.055	610 E	0.055	610 E	0.055	610 E	0.055	610 E	0.055	610 E	0.055	610 E	E	5
BENZOIC ACID	65-85-0	[15,000] 17,000	[2,900] 3,200	[41,000] 47,000	[7,800] 9,000	E	190,000 E	52,000 E	52,000 E	[15,000] 17,000	[2,900] 3,200	[41,000] 47,000	[7,800] 9,000	E	NA
BENZOTRICHLORIDE	98-07-7	[0.0051] 0.0056	[0.012] 0.014	[0.021] 0.026	[0.048] 0.063	E	10,000 E	10,000 E	10,000 C	[0.51] 0.56	[1.2] 1.4	[4.8] 6.3	[48] 63	E	30
BENZYL ALCOHOL	100-51-6	[1,800] 420	[650] 150	[5,100] 1,200	[1,800] 430	E	10,000 E	10,000 C	10,000 C	[1,800] 420	[650] 150	[5,100] 1,200	[1,800] 430	E	NA
BENZYL CHLORIDE	100-44-7	0.1	0.059 E	0.51	0.3 E	10	5.9 E	51	30 E	10	5.9 E	51	30 E	E	NA
BETA PROPIOLACTONE	57-57-8	0.0012	0.00015 E	0.0063	0.00076 E	E	0.1	0.015 E	0.63	0.076 E	0.012	0.0015 E	0.063	0.0076 E	NA
BHC, ALPHA	319-84-6	[0.01] 0.012	[0.046] 0.055	[0.041] 0.054	[0.19] 0.25	E	1	[4.6] 5.5	[4.1] 5.4	[19] 25	[46] 55	[41] 54	[190] 250	E	20
BHC, BETA-	319-85-7	[0.037] 0.041	[0.22] 0.24	[0.14] 0.19	[0.82] 1.1	E	[3.7] 4.1	E	10 24	10 59	10 59	10 59	10 59	E	15
BHC, GAMMA (LINDANE)	58-89-9	0.02	0.072 E	0.02	0.072 E	E	2	7.2 E	2	7.2 E	20	72 E	20	E	20
BIPHENYL, 1,1-	92-52-4	[180] 9.1	[790] 40	[510] 43	[2,200] 190	E	720	3,100 E	720	3,100 E	720	3,100 E	720	E	20
BIS(2-CHLOROETHOXY) METHANE	111-91-1	[11] 13	[2.9] 3.4	[31] 35	[8.2] 9.2	E	[1,100] 1,300	[290] 340	[820] 920	[11] 13	[2.9] 3.4	[31] 35	[8.2] 9.2	E	NA
BIS(2-CHLOROETHYL)ETHER	111-44-4	0.015	0.0045 E	0.076	0.023 E	E	1.5	0.45 E	7.6	2.3 E	1.5	0.45 E	7.6	E	NA

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HAA5 – The values listed for haloacetic acids (HAA5) are the total for all HAA5 combined.

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REGULATED SUBSTANCE	CASRN	Used Aquifers												Non-Use Aquifers				Soil Buffer Distance (feet)		
		TDS ≤ 2500						TDS > 2500						Residential		Non-Residential				
		Residential		Non-Residential		Residential		Non-Residential		Residential		Non-Residential		Residential		Non-Residential				
		100 X MSC	Generic Value	100 X MSC	Generic Value	100 X MSC	Generic Value	100 X MSC	Generic Value	100 X MSC	Generic Value	100 X MSC	Generic Value	100 X MSC	Generic Value	100 X MSC	Generic Value			
BIS(2-CHLORO-ISOPROPYL)ETHER	108-60-1	30	8	E	30	8	E	3,000	800	E	3,000	800	E	3,000	800	E	3,000	800	E	NA
BIS(CHLOROMETHYL)ETHER	542-88-1	0.000079	0.000012	E	0.0004	0.00006	E	0.0079	0.001	E	0.04	0.006	E	0.0079	0.001	E	0.04	0.006	E	NA
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	0.6	130	E	0.6	130	E	29	6,300	E	29	6,300	E	29	6,300	E	29	6,300	E	10
BISPHENOL A	80-05-7	[180] 210	[700] 810	E	[510] 580	[2,000] 2,200	E	12,000	46,000	E	12,000	46,000	E	12,000	46,000	E	12,000	46,000	E	20
BROMACIL	314-40-9	7	1.8	E	7	1.8	E	700	180	E	700	180	E	7	1.8	E	7	1.8	E	NA
BROMOCHLOROMETHANE	74-97-5	9	1.6	E	9	1.6	E	900	160	E	900	160	E	9	1.6	E	9	1.6	E	NA
BROMODICHLORO METHANE (THM)	75-27-4	8	2.7	E	8	2.7	E	800	270	E	800	270	E	8	2.7	E	8	2.7	E	NA
BROMOMETHANE	74-83-9	1	0.54	E	1	0.54	E	100	54	E	100	54	E	100	54	E	100	54	E	NA
BROMOXNIL	1689-84-5	[73] 83	[63] 71	E	[200] 230	[170] 200	E	[7,300] 8,300	[6,300] 7,100	E	13,000	11,000	E	[73] 83	[63] 71	E	[200] 230	[170] 200	E	NA
BROMOXYNIL OCTANOATE	1689-99-2	8	360	E	8	360	E	8	360	E	8	360	E	8	360	E	8	360	E	15
BUTADIENE, 1,3-	106-99-0	[0.019] 0.021	[0.0078] 0.0086	E	[0.076] 0.1	[0.031] 0.041	E	[1.9] 2.1	[0.78] 0.86	E	[7.6] 10	[3.1] 4.1	E	[1.9] 2.1	[0.78] 0.86	E	[7.6] 10	[3.1] 4.1	E	NA
BUTYL ALCOHOL, N-	71-36-3	[370] 420	[44] 50	E	[1,000] 1,200	[120] 140	E	10,000	[4,400] 5,000	E	10,000	10,000	C	[3,700] 4,200	[440] 500	E	10,000	[1,200] 1,400	E	NA
BUTYLATE	2008-41-5	40	58	E	40	58	E	4,000	5,800	E	4,000	5,800	E	40	58	E	40	58	E	30
BUTYLBENZENE, N-	104-51-8	[150] 210	[950] 1,300	E	[410] 580	[12,600] 3,700	E	1,500	9,500	E	1,500	9,500	E	[150] 210	[950] 1,300	E	[410] 580	[12,600] 3,700	E	15
BUTYLBENZENE, SEC-	135-98-8	[150] 420	[350] 980	E	[410] 1,200	[960] 2,800	E	1,700	4,000	E	1,700	4,000	E	[150] 420	[350] 980	E	[410] 1,200	[960] 2,800	E	30
BUTYLBENZENE, TERT-	98-06-6	[150] 420	[270] 760	E	[410] 1,200	[740] 2,200	E	3,000	5,400	E	3,000	5,400	E	[150] 420	[270] 760	E	[410] 1,200	[740] 2,200	E	30
BUTYLBENZYL PHTHALATE	85-68-7	[35] 38	[3,000] 3,200	E	[140] 180	[10,000] 10,000	C	270	10,000	C	270	10,000	C	270	10,000	C	270	10,000	C	10
CAPTAN	133-06-2	[29] 32	[18] 20	E	50	31	E	50	31	E	50	31	E	50	31	E	50	31	E	NA
CARBARYL	63-25-2	[370] 420	[220] 250	E	[1,000] 1,200	[590] 700	E	12,000	7,000	E	12,000	7,000	E	12,000	7,000	E	12,000	7,000	E	NA
CARBAZOLE	86-74-8	[3,3] 3.7	[21] 24	E	[13] 17	[83] 110	E	120	760	E	120	760	E	[120] 4	[760] 24	E	[120] 17	[760] 110	E	15
CARBOFURAN	1563-66-2	4	0.87	E	4	0.87	E	400	87	E	400	87	E	4	0.87	E	4	0.87	E	NA
CARBON DISULFIDE	75-15-0	150	130	E	620	530	E	10,000	10,000	C	10,000	10,000	C	150	130	E	620	530	E	NA
CARBON TETRACHLORIDE	56-23-5	0.5	0.26	E	0.5	0.26	E	50	26	E	50	26	E	5	2.6	E	5	2.6	E	NA
CARBOXIN	5234-68-4	70	53	E	70	53	E	7,000	5,300	E	7,000	5,300	E	70	53	E	70	53	E	NA

¹ For other options see § 250.308

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B. Soil to Groundwater Numeric Values¹

REGULATED SUBSTANCE	CASRN	Used Aquifers												Soil Buffer Distance (feet)						
		TDS ≤ 2,500						TDS > 2,500						Non-Use Aquifers						
		Residential		Non-Residential		Residential		Non-Residential		Residential		Non-Residential		Residential		Non-Residential				
		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value			
CHLORAMBEN	133-90-4	10	1.6	E	1,000	160	E	1,000	160	E	1,000	160	E	10	1.6	E	10	1.6	E	NA
CHLORDANE	57-74-9	0.2	49	E	0.2	49	E	5.6	1,400	E	5.6	1,400	E	5.6	1,400	E	5.6	1,400	E	10
CHLORO-1,1-DIFLUOROETHANE, 1-(CHLORO-1-PROPENE, 3-(ALLYL CHLORIDE))	107-05-1	0.21	0.049	E	0.88	0.2	E	21	4.9	E	88	20	E	21	4.9	E	88	20	E	NA
CHLOROACETALDEHYDE	107-20-0	0.24	0.029	E	1.1	0.13	E	24	2.9	E	110	13	E	0.24	0.029	E	1.1	0.1	E	NA
CHLOROACETOPHENONE, 2-	532-27-4	0.13	0.039	E	0.35	0.11	E	13	3.9	E	35	11.0	E	130	3.9	E	350	110	E	NA
CHLOROANILINE, P-	106-47-8	0.37	0.47	E	1.7	2.1	E	37	47	E	170	210	E	10.33	10.42	E	1.7	2.1	E	NA
CHLOROBENZENE	108-90-7	10	6.1	E	10	6.1	E	1,000	610	E	1,000	610	E	1,000	610	E	1,000	610	E	NA
CHLOROBENZILATE	510-15-6	0.66	4.4	E	3.1	20	E	66	440	E	310	2,000	E	660	4,400	E	310	2,000	E	15
CHLOROBUTANE, 1-	109-69-3	170	270	E	470	730	E	10,000	10,000	C	10,000	10,000	C	170	270	E	470	730	E	30
CHLORODIBROMO METHANE (THM)	124-48-1	8	2.5	E	8	2.5	E	800	250	E	800	250	E	800	250	E	800	250	E	NA
CHLORODIFLUORO METHANE (THM)	75-45-6	10,000	2,800	E	10,000	10,000	C	10,000	10,000	C	10,000	10,000	C	10,000	2,800	E	10,000	10,000	E	NA
CHLOROETHANE	75-00-3	23	5.4	E	120	26	E	2,300	500	E	2,500	540	E	2,300	500	E	2,500	540	E	NA
CHLOROFORM (THM)	67-66-3	8	2	E	8	2	E	800	200	E	800	200	E	800	200	E	800	200	E	NA
CHLORONAPHTHALENE, 2-	91-58-7	290	7,000	E	930	20,000	E	1,200	26,000	E	1,200	26,000	E	290	7,000	E	930	20,000	E	15
CHLORONITROBENZENE, P-	100-00-5	4.2	5.5	E	12	16	E	420	550	E	1,200	1,600	E	4.2	5.5	E	12	16	E	NA
CHLOROPHENOL, 2-	95-57-8	4	4.4	E	4	4.4	E	400	440	E	400	440	E	4	4.4	E	4	4.4	E	NA
CHLOROPRENE	126-99-8	0.016	0.0038	E	0.083	0.02	E	1.6	0.38	E	8.3	2	E	1.6	0.38	E	8.3	2	E	NA
CHLOROPROPANE, 2-	75-29-6	21	16	E	88	67	E	2,100	1,600	E	8,800	6,700	E	21	16	E	88	67	E	NA
CHLOROTHALONIL	1897-45-6	24	61	E	60	150	E	60	150	E	60	150	E	24	61	E	60	150	E	30
CHLOROTOLUENE, O-	95-49-8	10	20	E	10	20	E	1,000	2,000	E	1,000	2,000	E	10	20	E	10	20	E	30
CHLOROTOLUENE, P-	106-43-4	10	10	E	10	10	E	1,000	1,000	E	1,000	1,000	E	10	10	E	10	10	E	NA
CHLOROPYRIFOS	2921-88-2	0.2	2.3	E	0.2	2.3	E	20	230	E	20	230	E	0.2	2.3	E	0.2	2.3	E	15
CHLORSULFURON	64902-72-3	210	29	E	580	80	E	19,000	2,500	E	19,000	2,500	E	210	29	E	580	80	E	NA

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 B. Soil to Groundwater Numeric Values¹

REGULATED SUBSTANCE	CASRN	Used Aquifers												Soil Buffer Distance (feet)		
		TDS ≤ 2,500						TDS > 2,500								
		Residential			Non-Residential			Residential			Non-Residential					
		100 X MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X MSC	Generic Value	100 X GW MSC	Generic Value	100 X MSC	Generic Value			
CHLORHAL-DIMETHYL (DACHAL) (DCPA)	1861-32-1	7	110 E	7	110 E	50	820 E	50	820 E	50	820 E	50	820 E	50	820 E	15
CHRYSENE	218-01-9	0.19	230 E	0.19	230 E	0.19	230 E	0.19	230 E	0.19	230 E	0.19	230 E	0.19	230 E	5
CRESOL(S)	1319-77-3	181 21	[3.1] E 3.6	[51] E 58	[8.9] E 10	[1,800] E 2,100	[310] E 360	[1,800] E 2,100	[310] E 360	[1,800] E 2,100	[310] E 360	[1,800] E 2,100	[310] E 360	[5,100] E 5,800	[890] E 1,000	NA
CRESOL, 4,6-DINITRO-O-	534-52-1	0.33	[0.37] E 0.25	[1] E 0.93	[0.75] E 0.7	[37] E 33	[28] E 25	[100] E 93	[75] E 70	[370] E 330	[280] E 250	[1,000] E 930	[750] E 700	[1,000] E 930	[750] E 700	NA
CRESOL, O-(2- METHYLPHENOL)	95-48-7	180 210	[30] E 35	[510] E 580	[85] E 96	[18,000] E 21,000	[3,000] E 3,500	[18,000] E 21,000	[3,000] E 3,500	[18,000] E 21,000	[3,000] E 3,500	[18,000] E 21,000	[3,000] E 3,500	[18,000] E 21,000	[8,500] E 9,600	NA
CRESOL, M- (3- METHYLPHENOL)	108-39-4	180 210	[36] E 41	[510] E 580	[100] E 110	[10,000] E 11,000	[3,600] E 4,100	[10,000] E 11,000	[3,600] E 4,100	[10,000] E 11,000	[3,600] E 4,100	[10,000] E 11,000	[3,600] E 4,100	[10,000] E 11,000	[10,000] E 11,000	NA
CRESOL, P-(4- METHYLPHENOL)	106-44-5	181 21	[4.2] E 4.9	[51] E 58	[12] E 14	[1,800] E 2,100	[420] E 490	[1,800] E 2,100	[420] E 490	[1,800] E 2,100	[420] E 490	[1,800] E 2,100	[420] E 490	[5,100] E 5,800	[12,000] E 14,000	NA
CRESOL, P-CHLORO-M-	59-50-7	181 420	[37] E 870	[51] E 1,200	[110] E 2,500	[1,800] E 42,000	[3,700] E 87,000	[1,800] E 120,000	[3,700] E 190,000	[18] E 420	[37] E 870	[151] E 1,200	[110] E 2,500	[151] E 1,200	[110] E 2,500	30
CROTONALDEHYDE	4170-30-3	0.035 0.038	[0.0044] E 0.0048	[0.14] E 0.18	[0.018] E 0.023	[3.5] E 3.8	[0.44] E 0.48	[14] E 18	[1.8] E 2.3	[3.5] E 3.8	[0.44] E 0.48	[14] E 18	[1.8] E 2.3	[14] E 18	[1.8] E 2.3	NA
CROTONALDEHYDE, TRANS-	123-73-9	0.035 0.038	[0.0044] E 0.0048	[0.14] E 0.18	[0.018] E 0.023	[3.5] E 3.8	[0.44] E 0.48	[14] E 18	[1.8] E 2.3	[3.5] E 3.8	[0.44] E 0.48	[14] E 18	[1.8] E 2.3	[14] E 18	[1.8] E 2.3	NA
CUMENE (ISOPROPYL BENZENE)	98-82-8	84	600 E	350 E	2,500 E	5,000 E	10,000 C	5,000 C	10,000 C	5,000 C	10,000 C	5,000 C	10,000 C	5,000 C	10,000 C	15
CYANAZINE	21725-46-2	0.1	0.061 E	0.1	0.061 E	10	6.1 E	10	6.1 E	10	6.1 E	10	6.1 E	10	0.061 E	NA
CYCLOHEXANE	110-82-7	1,300	1,700 E	5,300	6,900	5,500	7,200 E	5,500	7,200 E	10,000 C	10,000 C	10,000 C	10,000 C	10,000 C	10,000 C	NA
CYCLOHEXANONE	108-94-1	150 150	[5,000] E 41	[10,000] E 620	[10,000] E 170	[10,000] E 4,100	[10,000] E 4,100	[10,000] E 4,100	[10,000] E 4,100	[10,000] E 4,100	[10,000] E 4,100	[10,000] E 4,100	[10,000] E 4,100	[10,000] E 4,100	[10,000] E 4,100	NA
CYFLUTHRIN	68359-37-5	0.1	33 E	0.1	33 E	0.1	33 E	0.1	33 E	0.1	33 E	0.1	33 E	0.1	33 E	10
CYROMAZINE	66215-27-8	271 31	[84] E 96	[77] E 88	[240] E 270	[2,700] E 3,100	[8,400] E 9,600	[2,700] E 3,100	[8,400] E 9,600	[27] E 31	[84] E 96	[77] E 88	[240] E 270	[77] E 88	[240] E 270	20
DDD, 4,4'-	72-54-8	0.3	[0.28] E 33	[1.1] E 1.4	[120] E 150	16	1,800 E	16	1,800 E	16	1,800 E	16	1,800 E	16	1,800 E	10
DDE, 4,4'-	72-55-9	0.19 0.21	[0.19] E 41	[0.76] E 1	[170] E 220	4	870 E	4	870 E	4	870 E	4	870 E	4	870 E	10
DDT, 4,4'-	50-29-3	0.21	[110] E 130	0.55 E 40	330 E 10,000 C	0.55 E 4,000 C	330 E 10,000 C	0.55 E 4,000 C	330 E 10,000 C	0.55 E 4,000 C	330 E 10,000 C	0.55 E 4,000 C	330 E 10,000 C	0.55 E 4,000 C	330 E 10,000 C	5
DI(2-ETHYLHEXYL)ADIPATE	103-23-1	40	10,000 C	40	10,000 C	40	10,000 C	40	10,000 C	40	10,000 C	40	10,000 C	40	10,000 C	5
DIALLATE	2303-16-4	1.1 1.2	[0.64] E 0.7	[4.3] E 5.6	[2.5] E 3.3	[110] E 120	[64] E 70	[110] E 120	[250] E 330	[1,100] E 1,200	[640] E 700	[4,000] E 4,000	[2,300] E 2,300	[4,000] E 4,000	[2,300] E 2,300	NA

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 All concentrations in mg/kg
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		TDS ≤ 2,500						TDS > 2,500												
		Residential			Non-Residential			Residential			Non-Residential									
		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value							
DIAMINOTOLUENE, 2,4-	95-80-7	[0.017]	[0.0034]	E	[0.008]	[0.014]	E	[1.7]	[0.34]	E	[6.8]	[1.4]	E	[17]	[3.4]	E	[68]	[14]	E	NA
		0.019	0.0038	0.14	0.089	0.018	0.14	1.9	0.38	8.9	1.8	19	3.8	89	18					
DIAZINON	333-41-5	0.1	0.14	E	0.1	0.14	E	0.1	0.14	E	0.1	0.14	E	0.1	0.14	E	0.1	0.14	E	30
		[0.0029]	[13]	E	[0.036]	[160]	E	0.06	270	E	0.06	270	E	0.06	270	E	0.06	270	E	5
DIBENZO[A,H] ANTHRACENE	53-70-3	0.0031	1.4	E	0.047	210	E	[3.7]	[95]	E	[10]	[260]	E	[370]	[9,500]	E	450	12,000	E	15
		4.2	110	E	12	310	E	2	0.92	E	2	0.92	E	2	0.92	E	2	0.92	E	NA
DIBROMO-3-CHLOROPROPANE, 1,2-	96-12-8	0.02	0.0092	E	0.02	0.0092	E	2	0.92	E	2	0.92	E	2	0.92	E	2	0.92	E	NA
		[37]	[150]	E	[100]	[410]	E	2,000	8,200	E	2,000	8,200	E	[37]	[150]	E	[100]	[410]	E	20
DIBROMOBENZENE, 1,4-	106-37-6	42	170	E	120	490	E	0.005	0.0012	E	0.005	0.0012	E	0.5	0.12	E	0.5	0.12	E	NA
		0.005	0.0012	E	0.005	0.0012	E	0.5	0.12	E	0.5	0.12	E	0.5	0.12	E	0.5	0.12	E	NA
DIBROMOETHANE, 1,2-(ETHYLENE DIBROMIDE)	106-93-4	0.84	0.32	E	3.5	1.4	E	[37]	[14]	E	[100]	[39]	E	[3,700]	[1,400]	E	[10,000]	[3,900]	E	NA
		[370]	[1,500]	E	[1,000]	[4,100]	E	10,000	10,000	C	10,000	10,000	C	10,000	10,000	C	10,000	10,000	C	20
DIBUTYL PHTHALATE, N-	84-74-2	420	1,700	E	1,200	4,900	E	400	4.5	E	400	4.5	E	400	4.5	E	400	4.5	E	NA
		6	0.79	E	6	0.79	E	600	79	E	600	79	E	600	79	E	600	79	E	NA
DICAMBA	1918-00-9	6	0.79	E	6	0.79	E	600	79	E	600	79	E	600	79	E	600	79	E	NA
		6	0.79	E	6	0.79	E	600	79	E	600	79	E	600	79	E	600	79	E	NA
DICHLOOROACETIC ACID (HAA)	76-43-6	0.0012	0.00067	E	0.006	0.0034	E	0.12	0.07	E	0.6	0.34	E	0.0012	0.0007	E	0.006	0.0034	E	NA
		0.0012	0.00078	E	0.006	0.0039	E	0.12	0.078	E	0.6	0.39	E	0.0012	0.00078	E	0.006	0.0039	E	NA
DICHLOORO-2-BUTENE, 1,4-	764-41-0	60	59	E	60	59	E	6,000	5,900	E	6,000	5,900	E	6,000	5,900	E	6,000	5,900	E	NA
		60	61	E	60	61	E	6,000	6,100	E	6,000	6,100	E	6,000	6,100	E	6,000	6,100	E	NA
DICHLOOROBENZENE, 1,2-	95-50-1	7.5	10	E	7.5	10	E	750	1,000	E	750	1,000	E	750	1,000	E	750	1,000	E	30
		[0.15]	[8.3]	E	[0.58]	[32]	E	[15]	[830]	E	[58]	[3,200]	E	[150]	[8,400]	E	310	17,000	E	10
DICHLOOROBENZENE, 1,3-	541-73-1	0.16	8.8	E	0.76	42	E	100	100	E	100	100	E	100	100	E	10,000	10,000	C	NA
		100	100	E	100	100	E	100	100	E	100	100	E	10,000	10,000	C	10,000	10,000	C	NA
DICHLOOROBENZENE, P-	106-46-7	3.1	0.75	E	16	3.9	E	310	75	E	1,600	390	E	31	7.5	E	160	39	E	NA
		0.5	0.1	E	0.5	0.1	E	50	10	E	50	10	E	5	1	E	5	1	E	NA
DICHLOOROETHYLENE, 1,1-	107-06-2	0.7	0.19	E	0.7	0.19	E	70	19	E	70	19	E	7	1.9	E	7	1.9	E	NA
		7	1.6	E	7	1.6	E	700	160	E	700	160	E	70	16	E	70	16	E	NA
DICHLOOROETHYLENE, CIS-1,2-	156-59-2	10	2.3	E	10	2.3	E	1,000	230	E	1,000	230	E	100	23	E	100	23	E	NA
		10	2.3	E	10	2.3	E	1,000	230	E	1,000	230	E	100	23	E	100	23	E	NA
DICHLOOROETHYLENE, TRANS-1,2-	156-60-5	0.5	0.076	E	0.5	0.076	E	50	7.6	E	50	7.6	E	50	7.6	E	50	7.6	E	NA
		0.5	0.076	E	0.5	0.076	E	50	7.6	E	50	7.6	E	50	7.6	E	50	7.6	E	NA
DICHLOOROMETHANE (METHYLENE CHLORIDE)	75-09-2	0.5	0.076	E	0.5	0.076	E	50	7.6	E	50	7.6	E	50	7.6	E	50	7.6	E	NA
		0.5	0.076	E	0.5	0.076	E	50	7.6	E	50	7.6	E	50	7.6	E	50	7.6	E	NA

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		TDS ≤ 2,500						TDS > 2,500						Residential		Non-Residential			
		Residential		Non-Residential		Residential		Non-Residential		Residential		Non-Residential		Residential		Non-Residential			
		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value		
DICHLOROPHENOL, 2,4-DICHLOROPHENOXY ACETIC ACID, 2,4-(2,4-D)	120-83-2 94-75-7	2 7	1 1.8	2 7	1 1.8	200 700	100 180	200 700	100 180	200 700	100 180	200 700	100 180	2,000 7,000	1,000 1,800	2,000 7,000	1,000 1,800	E E	NA NA
DICHLOROPROPANE, 1,2-DICHLOROPROPENE, 1,3-DICHLOROPROPIONIC ACID, 2,2-(DALAPON)	78-87-5 542-75-6	0.5 0.73	0.11 0.13	0.5 3.4	0.11 0.61	50 66	11 13	50 66	11 13	50 66	11 13	50 66	11 13	5 73	1.1 1.3	5 340	1.1 61	E E	NA NA
DICHLOROPROPIONIC ACID, 2,2-(DALAPON)	75-99-0	20	5.3	20	5.3	2,000	530	2,000	530	2,000	530	2,000	530	2,000	530	2,000	530	E	NA
DICHLOROVOS	62-73-7	[0.23] 0.25	[0.054] 0.059	[0.9] 1.2	[0.21] 0.28	[23] 25	[5.4] 5.9	[23] 25	[5.4] 5.9	[90] 120	[21] 28	[90] 120	[21] 28	[0.23] 0.25	[0.054] 0.059	[0.9] 1.2	[0.21] 0.28	E E	NA
DICYCLOPENTADIENE	77-73-6	1.5	3.2	6.2	1.3	150	320	150	320	620	1,300	620	1,300	[2] 1.5	[3] 3.2	[6] 6.2	[13] 6.2	E E	30
DIELDRIN	60-57-1	[0.0041] 0.0046	[0.11] 0.13	[0.016] 0.021	[0.44] 0.58	[0.41] 0.46	[11] 13	[0.41] 0.46	[11] 13	[1.6] 2.1	[44] 58	[1.6] 2.1	[44] 58	[4.1] 4.6	[110] 130	[16] 17	[440] 470	E E	15
DIETHANOLAMINE	111-42-2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	E	NA
DIETHYL PHTHALATE	84-66-2	[2,900] 3,300	[910] 1,000	[8,200] 9,300	[2,600] 2,900	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	C	NA
DIFLUBENZURON	35367-38-5	20	5.2	20	5.2	20	52	20	52	20	52	20	52	20	52	20	52	E	20
DIISOPROPYL METHYLPHOSPHONATE	1445-75-6	60	8.2	60	8.2	6,000	820	6,000	820	6,000	820	6,000	820	60	8.2	60	8.2	E	NA
DIMETHOATE	60-51-5	[0.73] 0.83	[0.28] 0.32	[2] 2.3	[0.77] 0.89	[73] 83	[28] 32	[73] 83	[28] 32	[200] 230	[77] 89	[200] 230	[77] 89	[730] 830	[280] 320	[2,000] 2,300	[770] 890	E E	NA
DIMETHOXYBENZIDINE, 3,3-BENZENE, P-	119-90-4	[4.7] 0.046	[16] 0.15	[19] 0.21	[64] 0.71	[470] 5	[1,600] 15	[470] 5	[1,600] 15	[1,900] 21	[6,400] 71	[1,900] 21	[6,400] 71	[4,700] 46	[16,000] 150	[6,000] 210	[20,000] 710	E E	20
DIMETHURIN	70-38-2	3.6	240	3.6	240	3.6	240	3.6	240	3.6	240	3.6	240	3.6	240	3.6	240	E	10
DIMETHYLAMINOAZO BENZENE, P-	60-11-7	[0.014] 0.016	[0.037] 0.042	[0.057] 0.074	[0.15] 0.19	[1.4] 1.6	[3.7] 4.2	[1.4] 1.6	[3.7] 4.2	[5.7] 7.4	[15] 19	[5.7] 7.4	[15] 19	[14] 16	[37] 42	[57] 74	[150] 190	E E	20
DIMETHYLANILINE, N,N-	121-69-7	[7.3] 8.3	[4.1] 4.7	[20] 23	[11] 13	[730] 830	[410] 470	[730] 830	[410] 470	[2,000] 2,300	[1,100] 1,300	[2,000] 2,300	[1,100] 1,300	[730] 830	[410] 470	[2,000] 2,300	[1,100] 1,300	E E	NA
DIMETHYLBENZIDINE, 3,3-	119-93-7	[0.006] 0.0066	[0.33] 0.36	[0.024] 0.031	[1.3] 1.7	[0.6] 0.7	[33] 36	[0.6] 0.7	[33] 36	[2.4] 3.1	[130] 170	[2.4] 3.1	[130] 170	[6] 7	[330] 360	[24] 31	[1,300] 1,700	E E	10
DIMETHYL METHYLPHOSPHONATE	756-79-6	10	1.2	10	1.2	1,000	120	1,000	120	1,000	120	1,000	120	10	1.2	10	1.2	E E	NA
DIMETHYLPHENOL, 2,4-	105-67-9	[73] 83	[32] 36	[200] 230	[87] 100	[7,300] 8,300	[3,200] 3,600	[7,300] 8,300	[3,200] 3,600	10,000	[8,700] 10,000	10,000	[8,700] 10,000	10,000	10,000	10,000	10,000	C C	NA
DINITROBENZENE, 1,3-	99-65-0	0.1	0.049	0.1	0.049	10	4.9	10	4.9	10	4.9	10	4.9	10	4.9	10	4.9	E	NA
DINITROPHENOL, 2,4-	51-28-5	[7.3] 8.3	[0.83] 0.94	[20] 23	[2.3] 2.6	[730] 830	[83] 94	[730] 830	[83] 94	[2,000] 2,300	[230] 260	[2,000] 2,300	[230] 260	[7,300] 8,300	[830] 940	[20,000] 23,000	[2,300] 2,600	E E	NA

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 B. Soil to Groundwater Numeric Values¹

REGULATED SUBSTANCE	CASRN	Used Aquifers						Non-Use Aquifers						Soil Buffer Distance (feet)				
		TDS ≤ 2500			TDS > 2500			Residential			Non-Residential							
		Residential		Non-Residential	Residential		Non-Residential	Residential		Non-Residential	Residential		Non-Residential					
		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value					
DINITROTOLUENE, 2,4-	121-14-2	[0.21]	[0.05]	E	[0.21]	E	[21]	E	[5]	E	[210]	E	[840]	E	[200]	E	NA	
		0.24	0.057	1.1	2.4	2.4	2.6	110	6	6	240	57	1,100	260	1,000	3,000	NA	
DINITROTOLUENE, 2,6- (2,6-DNT)	606-20-2	[3.7]	[1.1]	E	[370]	E	[370]	E	[110]	E	[3,700]	E	[10,000]	E	[3,000]	E	NA	
		4.2	1.2	12	4	420	4	420	120	120	4,200	4	4,200	3,600	12,000	3,600	NA	
DIOXANE, 1,4-	123-91-1	[0.64]	[0.084]	E	[64]	E	[64]	E	[8.4]	E	[6.4]	E	[6.4]	E	[4.2]	E	NA	
		0.73	0.095	3.4	0.44	73	0.44	73	9.5	9.5	7.3	0.95	34	4.4	32	4.4	NA	
DIPHENYLAMINE	957-51-7	[91]	[53]	E	[9,100]	E	[9,100]	E	[5,300]	E	[26,000]	E	[26,000]	E	[15,000]	E	NA	
		100	59	290	170	10,000	170	10,000	5,900	5,900	29,000	17,000	29,000	17,000	30,000	18,000	NA	
DIPHENYLHYDRAZINE, 1,2-	122-66-7	[0.083]	[0.15]	E	[8.3]	E	[8.3]	E	[15]	E	[83]	E	[25]	E	[44]	E	30	
		0.091	0.16	0.43	0.76	9.1	0.76	9.1	16	16	25	44	25	44	25	44	NA	
DIQUAT	85-00-7	2	0.24	E	2	E	200	24	24	24	24	24	24	24	24	24	NA	
		0.07	0.18	E	0.07	0.18	7	18	7	18	7	18	7	18	7	18	NA	
DITHIANE, 1,4-	505-29-3	8	1.3	E	8	E	800	130	130	130	130	130	130	130	130	130	NA	
		[7.3]	[6.3]	E	[730]	E	[730]	E	[630]	E	[7.3]	E	[6.3]	E	[20]	E	NA	
DIURON	330-54-1	8.3	7.1	E	830	20	830	710	710	710	710	710	710	710	710	710	NA	
		[22]	[110]	E	48	250	E	48	250	E	48	250	E	48	250	E	15	
ENDOSULFAN	115-29-7	25	130	E	25	E	50	260	E	25	E	50	260	E	25	E	15	
		[22]	[110]	E	50	260	E	50	260	E	50	260	E	50	260	E	15	
ENDOSULFAN I (ALPHA)	959-98-8	25	150	E	25	E	45	260	E	25	E	45	260	E	25	E	15	
		[22]	[130]	E	45	260	E	45	260	E	45	260	E	45	260	E	15	
ENDOSULFAN II (BETA)	33213-65-9	25	150	E	25	E	45	260	E	25	E	45	260	E	25	E	15	
		[22]	[130]	E	45	260	E	45	260	E	45	260	E	45	260	E	15	
ENDOSULFAN SULFATE	1031-07-8	12	70	E	12	E	12	70	E	12	E	12	70	E	12	E	15	
		10	4.1	E	1,000	410	E	1,000	410	E	10	4.1	E	10	4.1	E	NA	
ENDOTHALL	145-73-3	0.2	5.5	E	0.2	E	20	550	E	0.2	E	20	550	E	0.2	E	15	
		0.21	0.042	E	0.88	0.17	E	21	4.2	E	88	17	E	21	4.2	E	NA	
EPICHLOROHYDRIN	106-89-8	[18]	[2.1]	E	[1,800]	E	[1,800]	E	[210]	E	[18]	E	[590]	E	[51]	E	NA	
		21	2.4	E	58	6.7	E	2,100	240	240	21	2.4	E	58	6.7	58	6.7	NA
ETHEPHON	16672-87-0	[1.8]	[39]	E	[110]	E	85	1,900	E	85	1,900	E	85	1,900	E	85	1,900	15
		2.1	46	5.8	130	2.1	46	5.8	130	2.1	46	5.8	130	2.1	46	5.8	130	
ETHION	563-12-2	[42]	[850]	E	[42]	E	42	5.9	E	42	5.9	E	42	5.9	E	42	5.9	15
		3,800	980	10,000	2,800	10,000	2,800	10,000	2,800	10,000	2,800	10,000	2,800	10,000	2,800	10,000	2,800	10,000
ETHOXYETHANOL, 2- (EGEE)	110-80-5	[1.4]	[0.54]	E	[140]	E	[140]	E	[54]	E	[140]	E	[540]	E	[210]	E	NA	
		1.5	0.58	7.1	2.7	150	2.7	150	58	58	150	270	58	58	150	270	58	58
ETHYL ACETATE	141-78-6	70	46	E	70	E	70	46	E	70	E	70	46	E	70	E	NA	
		70	46	E	70	E	70	46	E	70	E	70	46	E	70	E	NA	
ETHYL ACRYLATE	140-88-5	[1.4]	[0.54]	E	[140]	E	[140]	E	[54]	E	[140]	E	[540]	E	[210]	E	NA	
		1.5	0.58	7.1	2.7	150	2.7	150	58	58	150	270	58	58	150	270	58	58
ETHYL BENZENE	100-41-4	70	46	E	70	E	70	46	E	70	E	70	46	E	70	E	NA	
		70	46	E	70	E	70	46	E	70	E	70	46	E	70	E	NA	

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B. Soil to Groundwater Numeric Values¹

REGULATED SUBSTANCE	CASRN	Used Aquifers												Soil Buffer Distance (feet)				
		TDS ≤ 2,500						TDS > 2,500										
		Residential			Non-Residential			Residential			Non-Residential							
		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value					
ETHYL DIPROPYL THIOCARBAMATE-S- (EPTC)	759-94-4	[91] 100	[65] 71	[180] 210	E E	[9,100] 10,000	[6,500] 7,100	E E	10,000 10,000	10,000 10,000	C C	[91] 100	[65] 71	E E	[260] 290	[180] 210	E E	NA
ETHYLETHER	60-29-7	[730] 830	[210] 230	[560] 650	E E	10,000 10,000	10,000 10,000	C C	10,000 10,000	10,000 10,000	C C	[730] 830	[210] 230	E E	[2,000] 2,300	[560] 650	E E	NA
ETHYL METHACRYLATE	97-63-2	[330] 63	[55] 10	[920] 260	E E	[10,000] 6,300	[5,500] 1,000	E E	10,000 10,000	[10,000] 4,300	[C] E	[330] 63	[55] 10	E E	[920] 260	[150] 43	E E	NA
ETHYLENE CHLORHYDRIN	107-07-3	83	10	230	E	8,300	950	E	10,000	2,600	E	83	10	E	230	26	E	NA
ETHYLENE GLYCOL	107-21-1	1,400	170	1,400	E	10,000	10,000	C	10,000	10,000	C	10,000	10,000	C	10,000	10,000	C	NA
ETHYLENE THIOUREA (ETU)	96-45-7	[0,29] 0.33	[0,032] 0.037	[0,82] 0.1	E E	[29] 33	[3,2] 3.7	E E	[82] 93	[9,2] 10	E E	[290] 330	[32] 37	E E	[820] 930	[92] 100	E E	NA
ETHYLP-NITROPHENYL PHENYLPHOSPHORO THIOATE	2104-64-5	[0,037] 0.042	[0,12] 0.13	[0,31] 0.37	E E	[3,7] 4.2	[12] 13	E E	[10] 12	[31] 37	E E	[0,037] 0.042	[0,12] 0.13	E E	0.1 0.37	[0,31] 0.37	E E	20
FENAMIPHOS	22224-92-6	0.07	0.06	E	E	7	6	E	7	6	E	[0,1] 0.07	0.06	E	[0,1] 0.07	0.06	E	NA
FENVALERATE (PYDRIN)	51630-58-1	8.5	94	E	E	8.5	94	E	8.5	94	E	8.5	94	E	8.5	94	E	15
FLUMETURON	2164-17-2	9	2.5	E	E	900	250	E	900	250	E	9	2.5	E	9	2.5	E	NA
FLUORANTHENE	206-44-0	26	3,200	E	E	26	3,200	E	26	3,200	E	26	3,200	E	26	3,200	E	10
FLUORENE	86-73-7	[150] 170	[3,000] 3,400	E E	E E	190 3,800	3,800 E	E E	190 3,800	3,800 E	E E	190 3,800	3,800 E	E E	190 3,800	3,800 E	E E	15
FLUOROTRICHLORO METHANE (FREON 11)	75-69-4	200	87	E	E	10,000	8,700	E	10,000	8,700	E	10,000	8,700	E	10,000	8,700	E	NA
FONOFOS	944-22-9	1	2.9	E	E	100	290	E	100	290	E	1	2.9	E	1	2.9	E	20
FORMALDEHYDE	50-00-0	100	12	E	E	10,000	1,200	E	10,000	1,200	E	10,000	1,200	E	10,000	1,200	E	NA
FORMIC ACID	64-18-6	[0,63] 0.063	[0,071] 0.071	E E	E E	[63] 6.3	[7,1] 0.71	E E	[260] 26	[29] 2.9	E E	[6,3] 0.63	[0,71] 0.071	E E	[26] 2.6	[3] 0.29	E E	NA
FOSETYL-AL	39148-24-8	[11,000] 13,000	[9,700] 12,000	E E	E E	190,000 31,000	190,000 E	C C	190,000 E	190,000 E	C C	[11,000] 13,000	[9,700] 12,000	E E	[31,000] 35,000	[27,000] 31,000	E E	NA
FURAN	110-00-9	[3,7] 4.2	[1,6] 1.8	E E	E E	[370] 420	[160] 180	E E	[1,000] 1,200	[440] 520	E E	[370] 420	[160] 180	E E	[11,000] 1,200	[440] 520	E E	NA
FURFURAL	98-01-1	11	1.4	E	E	1,100	140	E	3,100	390	E	11	1.4	E	31	3.9	E	NA
GLYPHOSATE	1071-83-6	70	620	E	E	7,000	62,000	E	7,000	62,000	E	70	620	E	70	620	E	15
HEPTACHLOR	76-44-8	0.04	0.68	E	E	4	68	E	4	68	E	4	68	E	4	68	E	15
HEPTACHLOR EPOXIDE	1024-57-3	0.02	1.1	E	E	0.02	1.1	E	2	110	E	2	110	E	20	1,100	E	10
HEXACHLOROBENZENE	118-74-1	0.1	0.96	E	E	0.1	0.96	E	0.6	5.8	E	0.6	5.8	E	0.6	5.8	E	15
HEXACHLOROBUTADIENE	87-68-3	[0,9] 0.94	[10] 11	E E	E E	[3,3] 4.4	[1,000] 1,100	E E	290 E	3,400 E	E E	[85] 94	[1,000] 1,100	E E	290 E	3,400 E	E E	15

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		TDS ≤ 2500						TDS > 2500								
		Residential			Non-Residential			Residential			Non-Residential					
		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value			
HEXACHLOROCYCLO PENTADIENE	77-47-4	5	91 E	5	91 E	180	3,300 E	180	3,300 E	180	3,300 E	180	3,300 E	180	3,300 E	15
HEXACHLOROETHANE	67-72-1	0.1	0.56 E	0.1	0.56 E	10	56 E	10	56 E	10	56 E	10	56 E	10	56 E	15
HEXANE	110-54-3	150	1,400 E	1610	5,600 E	950	8,700 E	950	8,700 E	150	1,400 E	1610	5,600 E	620	5,600 E	15
HEXAZINONE	51235-04-2	40	8.5 E	40	8.5 E	4,000	850 E	4,000	850 E	40	8.5 E	40	8.5 E	40	8.5 E	NA
HEXYTHIAZOX (SAVEY)	78887-05-0	50	820 E	50	820 E	50	820 E	50	820 E	50	820 E	50	820 E	50	820 E	15
HMX	2691-41-0	40	4.8 E	40	4.8 E	500	60 E	500	60 E	40	4.8 E	40	4.8 E	40	4.8 E	NA
HYDRAZINE/HYDRAZINE SULFATE	302-01-2	0.001	0.00011 E	0.0051	0.00057 E	0.1	0.011 E	0.51	0.057 E	0.01	0.0011 E	0.051	0.0057 E	0.051	0.0057 E	NA
HYDROQUINONE	123-31-9	1.2	0.16 E	14.61	0.62 E	120	16 E	14601	62 E	120	16 E	14601	62 E	570	620	NA
INDENO[1,2,3-CD]PYRENE	193-39-5	0.0291	0.36 E	0.47	0.77 E	0.36	0.77 E	36,000	3.1 E	2.91	190,000 C	6.2	190,000 C	6.2	190,000 C	5
IPRODIONE	36734-19-7	170	1430 E	1410	11,200 E	470	3,700 E	1,300	3,700 E	1,300	3,700 E	1,300	3,700 E	1,300	3,700 E	20
ISOBUTYL ALCOHOL	78-83-1	1,200	2,900 E	3,100	8,100 E	10,000	10,000 C	10,000	10,000 C	10,000	10,000 C	10,000	10,000 C	10,000	10,000 C	NA
ISOPHORONE	78-59-1	10	1.9 E	10	1.9 E	1,000	190 E	1,000	190 E	1,000	190 E	1,000	190 E	1,000	190 E	NA
ISOPROPYL METHYLPHOSPHONATE	1832-54-8	70	8.1 E	70	8.1 E	7,000	810 E	7,000	810 E	7,000	810 E	7,000	810 E	7,000	810 E	NA
KEPONE	143-50-0	0.0041	0.56 E	0.034	4.7 E	0.73	56 E	100	470 E	0.41	560 E	4.1	560 E	4.1	560 E	10
MALATHION	121-75-5	50	170 E	50	170 E	5,000	10,000 C	5,000	10,000 C	5,000	10,000 C	5,000	10,000 C	5,000	10,000 C	20
MALEIC HYDRAZIDE	123-33-1	400	47 E	400	47 E	40,000	4,700 E	40,000	4,700 E	400	47 E	40,000	4,700 E	400	47 E	NA
MANEB	12427-38-2	181	2 E	511	5.81 E	2,100	240 E	2,100	240 E	181	2 E	2,100	240 E	58	5.81 E	NA
MERPHOS OXIDE	78-48-8	0.11	15 E	0.31	41 E	11	1,500 E	31	4,100 E	0.11	15 E	0.31	41 E	0.31	41 E	10
METHACRYLONITRILE	126-98-7	0.15	0.025 E	0.62	0.11 E	15	2.5 E	62	110 E	0.15	0.025 E	0.62	0.11 E	0.62	0.11 E	NA
METHAMIDOPHOS	10265-92-6	0.181	0.0221 E	0.511	0.0631 E	181	2.21 E	511	6.31 E	0.181	0.0221 E	0.511	0.0631 E	0.511	0.0631 E	NA
METHANOL	67-56-1	840	991 E	3,500	1410 E	10,000	9,900 E	10,000	10,000 C	840	991 E	3,500	1410 E	10,000	10,000 C	NA
METHOMYL	16752-77-5	20	3.2 E	20	3.2 E	2,000	320 E	2,000	320 E	20	3.2 E	2,000	320 E	20	3.2 E	NA
METHOXYCHLOR	72-43-5	4	630 E	4	630 E	4.5	710 E	4.5	710 E	4.5	710 E	4.5	710 E	4.5	710 E	10

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		TDS ≤ 2500						TDS > 2500															
		Residential			Non-Residential			Residential			Non-Residential												
		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value										
METHOXYETHANOL, 2-	109-86-4	4.2	0.47	E	18	2	E	420	10,000	C	47	E	1,800	200	E	4.2	0.47	E	18	2	E	NA	
METHYL ACETATE	79-20-9	[3,700]	[690]	E	10,000	[1,900]	2,200	4,200	780	3,700	[690]	E	10,000	10,000	C	[3,700]	[690]	E	10,000	[1,900]	E	NA	
METHYL ACRYLATE	96-33-3	[110]	[27]	E	[310]	[77]	E	[10,000]	100	E	[2,700]	E	[10,000]	[7,700]	E	[10,000]	[2,700]	E	[10,000]	[7,700]	E	NA	
METHYL CHLORIDE	74-87-3	3	0.38	E	3	0.38	E	300	38	E	300	38	E	300	38	E	300	38	E	300	38	E	NA
METHYL ETHYL KETONE	78-93-3	400	76	E	400	76	E	10,000	7,600	E	10,000	7,600	E	10,000	7,600	E	10,000	7,600	E	10,000	7,600	E	NA
METHYL HYDRAZINE	60-34-4	0.0042	0.00048	E	0.018	0.002	E	0.42	0.048	E	1.8	0.2	E	0.042	0.0048	E	0.18	0.02	E	0.02	0.02	E	NA
METHYL ISOBUTYL KETONE	108-10-1	[290]	[45]	E	[820]	[130]	E	10,000	[4,500]	E	10,000	10,000	C	10,000	10,000	C	10,000	[4,500]	E	10,000	10,000	C	NA
METHYL ISOCYANATE	624-83-9	0.21	0.029	E	0.88	0.12	E	21	2.9	E	88	12	E	0.21	0.029	E	0.88	0.12	E	0.88	0.12	E	NA
METHYL N-BUTYL KETONE (2-HEXANONE)	591-78-6	[1.1]	[0.27]	E	[4.4]	[1.1]	E	[110]	[27]	E	[4.4]	[110]	E	[4.4]	[110]	E	[1.1]	[0.27]	E	[4.4]	[1.1]	E	NA
METHYL METHACRYLATE	80-62-6	150	20	E	620	84	E	10,000	2,000	E	10,000	2,000	E	10,000	2,000	E	10,000	2,000	E	10,000	2,000	E	NA
METHYL METHANESULFONATE	66-27-3	[0.67]	[0.083]	E	[2.6]	[0.32]	E	[67]	[8.3]	E	[2.6]	[32]	E	[0.67]	[0.083]	E	[2.6]	[0.32]	E	[0.67]	[0.32]	E	NA
METHYL PARATHION	298-00-0	0.1	0.21	E	0.1	0.21	E	10	21	E	10	21	E	10	21	E	10	21	E	10	21	E	30
METHYL STYRENE (MIXED ISOMERS)	25013-15-4	8.4	47	E	35	200	E	840	4,700	E	3,500	10,000	C	8.4	47	E	35	200	E	35	200	E	15
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	2	0.28	E	2	0.28	E	200	28	E	200	28	E	200	28	E	200	28	E	200	28	E	NA
METHYLCHLOROPHENOXY ACETIC ACID (MCPA)	94-74-6	3	1.2	E	3	1.2	E	300	120	E	300	120	E	300	120	E	300	120	E	300	120	E	NA
METHYLENE BIS(2-CHLOROANILINE), 4,4'-	101-14-4	[0.22]	[1.7]	E	[2.6]	[20]	E	[22]	[170]	E	[260]	[2,000]	E	[0.22]	[1.7]	E	[2.6]	[20]	E	[2.6]	[20]	E	15
METHYL NAPHTHALENE, 2-	91-57-6	[15]	[600]	E	[41]	[1,600]	E	[1,500]	[60,000]	E	2,500	100,000	E	[15]	[600]	E	[41]	[1,600]	E	[15]	[600]	E	15
METHYLSTYRENE; ALPHA	98-83-9	[260]	[460]	E	[720]	[1,300]	E	10,000	10,000	C	10,000	10,000	C	[260]	[460]	E	[720]	[1,300]	E	[260]	[460]	E	30
METOLACHLOR	51218-45-2	70	40	E	70	40	E	7,000	4,000	E	7,000	4,000	E	70	40	E	70	40	E	70	40	E	NA
METRIBUZIN	21087-64-9	7	2.4	E	7	2.4	E	700	240	E	700	240	E	7	2.4	E	7	2.4	E	7	2.4	E	NA
MONOCHLOROACETIC ACID (HAA)	79-11-8	[7]	[0.78]	E	[7]	[0.78]	E	[700]	[78]	E	[700]	[78]	E	[7]	[0.78]	E	[7]	[0.78]	E	[7]	[0.78]	E	NA
NAPHTHALENE	91-20-3	10	2.5	E	10	2.5	E	1,000	250	E	1,000	250	E	10	2.5	E	10	2.5	E	10	2.5	E	30
NAPHTHYLAMINE, 1-	134-32-7	[0.037]	[0.3]	E	[0.14]	[1.1]	E	[3.7]	[30]	E	[14]	[110]	E	[0.037]	[0.3]	E	[0.14]	[1.1]	E	[3.7]	[30]	E	15
		0.041	0.33	E	0.19	1.5	E	4.1	33	E	19	150	E	0.041	0.33	E	0.19	1.5	E	4.1	33	E	150

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B. Soil to Groundwater Numeric Values¹

REGULATED SUBSTANCE	CASRN	Used Aquifers												Soil Buffer Distance (feet)					
		TDS ≤ 2500						TDS > 2500											
		Residential			Non-Residential			Residential			Non-Residential								
		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value						
NAPHTHYLAMINE, 2-	91-59-8	[0.037]	[0.012]	E	[0.046]	E	[3.7]	[1.2]	E	[14]	[4.6]	E	[37]	[12]	E	[140]	[46]	E	NA
		0.041	0.013		0.062		4.1	1.3		19	6.2		41	13		190	62		NA
NAPROPAMIDE	15299-99-7	[370]	[860]	E	[1,000]	E	7,000	16,000	E	7,000	16,000	E	[370]	[860]	E	[1,000]	[2,300]	E	30
		420	970		2,800								420	970		1,200	2,800		30
NITROANILINE, M-	99-09-2	[1.1]	[0.17]	E	[3.1]	E	[110]	[17]	E	[310]	[48]	E	[1.1]	[0.17]	E	[3.1]	[0.48]	E	NA
		1.3	0.2		0.55		130	20		350	55		1.3	0.2		3.5	0.55		NA
NITROANILINE, O-	88-74-4	[11]	[2]	E	[5.1]	E	[1,100]	[200]	E	[3,100]	[550]	E	[11]	[2]	E	[31]	[5.5]	E	NA
		42	8		21		4,200	750		12,000	2,100		42	8		120	21		NA
NITROANILINE, P-	100-01-6	[3.3]	[0.49]	E	[13]	E	[330]	[49]	E	[1,300]	[190]	E	[3.3]	[0.49]	E	[13]	[1.9]	E	NA
		3.7	0.55		17		370	55		1,700	250		3.7	0.55		17	2.5		NA
NITROBENZENE	98-95-3	[7.3]	[3.2]	E	[20]	E	[730]	[320]	E	[2,000]	[870]	E	[7.3]	[3.20]	E	[20,000]	[3,200]	E	NA
		8.3	3.6		10		830	360		2,300	1,000		8.3	3.60		8,300	3,600		NA
NITROGUANIDINE	556-88-7	70	7.8	E	70	E	7,000	780	E	7,000	780	E	70	7.8	E	70	7.8	E	NA
NITROPHENOL, 2-	88-75-5	[29]	[5.9]	E	[82]	E	[2,900]	[590]	E	[8,200]	[1,700]	E	[29]	[5.90]	E	[29,000]	[5,900]	E	NA
		33	6.7		19		3,300	670		9,300	1,900		33	6.70		33,000	6,700		NA
NITROPHENOL, 4-	100-02-7	6	4.1	E	6	E	600	410	E	600	410	E	6	4.10	E	6,000	410	E	NA
		0.0018	0.0029		0.0015		0.18	0.029		0.93	0.15		0.018	0.029		0.093	0.015		NA
NITROPROPANE, 2-	79-46-9	0.00045	0.000079	E	0.00058	E	0.0045	0.0008	E	0.058	0.01	E	0.00045	0.00008	E	0.00045	0.00008	E	NA
NITROSODIETHYLAMINE, N-	55-18-5	0.00014	0.000019	E	0.0018	E	0.014	0.0019	E	0.18	0.024	E	0.0014	0.00019	E	0.0014	0.00019	E	NA
NITROSODIMETHYLAMINE, N-	62-75-9	0.00014	0.000019	E	0.0018	E	0.014	0.0019	E	0.18	0.024	E	0.0014	0.00019	E	0.0014	0.00019	E	NA
NITROSODIPHENYLAMINE, N-	86-30-6	[13]	[20]	E	[53]	E	[1,300]	[83]	E	[2,000]	[500]	E	[13]	[20]	E	[3,500]	[500]	E	30
		15	23		69		1,500	110		2,300	110		15	23		3,500	500		30
NITROSODI-N-BUTYLAMINE, N-	924-16-3	[0.012]	[0.015]	E	[0.048]	E	[1.2]	[1.5]	E	[4.8]	[5.9]	E	[0.012]	[0.015]	E	[0.048]	[5.9]	E	NA
		0.014	0.017		0.063		1.4	1.7		6.3	7.8		0.014	0.017		0.048	7.8		NA
NITROSODI-N-PROPYLAMINE, N-	621-64-7	[0.0094]	[0.0013]	E	[0.037]	E	[0.94]	[0.13]	E	[3.7]	[0.51]	E	[0.0094]	[0.0013]	E	[0.94]	[0.51]	E	NA
		0.01	0.0014		0.049		1	0.14		4.9	0.68		0.01	0.0014		0.94	0.68		NA
NITROSODIPHENYLAMINE, N-	86-30-6	[13]	[20]	E	[53]	E	[1,300]	[83]	E	[2,000]	[500]	E	[13]	[20]	E	[3,500]	[500]	E	30
		15	23		69		1,500	110		2,300	110		15	23		3,500	500		30
NITROSODI-N-ETHYLUREA, N-	759-73-9	[0.0008]	[0.00092]	E	[0.0096]	E	[0.08]	[0.092]	E	[0.96]	[0.11]	E	[0.0008]	[0.00092]	E	[0.08]	[0.092]	E	NA
		0.00084	0.00097		0.013		0.013	0.015		1.3	0.15		0.00084	0.00097		0.08	0.097		NA
OCTYL PHTHALATE, Di-N-	117-84-0	[150]	10,000	C	[300]	C	300	10,000	C	300	10,000	C	[150]	10,000	C	300	10,000	C	5
		42			120								42			300	10,000		5
OXAMYL (VYDATE)	23135-22-0	20	2.6	E	20	E	2,000	260	E	2,000	260	E	20	2.6	E	20	2.6	E	NA
		3	120		3		300	12,000		300	12,000		3	120		3	120		NA
PARAQUAT	1910-42-5	[22]	[130]	E	[61]	E	2,000	10,000	C	2,000	10,000	C	[22]	[130]	E	[61]	[360]	E	15
		25	150		410								25	150		70	410		15
PCB-1016 (AROCLOR)	12674-11-2	[0.26]	[72]	E	[0.72]	E	25	6,900	E	25	6,900	E	[0.26]	[72]	E	[0.72]	[200]	E	10
		0.29	80		0.82		230	230		230	230		0.29	80		0.82	230		10
PCB-1221 (AROCLOR)	11104-28-2	[0.033]	[0.16]	E	[0.13]	E	[3.3]	[16]	E	[13]	[63]	E	[0.033]	[0.16]	E	[0.033]	[16]	E	20
		0.037	0.18		0.83		3.7	18		17	83		0.037	0.18		0.17	0.83		20

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REGULATED SUBSTANCE	CASRN	Used Aquifers												Soil Buffer Distance (feet)						
		TDS ≤ 2500						TDS > 2500												
		Residential			Non-Residential			Residential			Non-Residential									
		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value							
PCB-1232 (AROCOLOR)	11141-16-5	[0.033]	[0.13]	E	[0.13]	[13]	E	[3.3]	[13]	E	[50]	E	[0.033]	[0.13]	E	[0.13]	[0.5]	E	20	
		0.037	0.14	0.7	3.7	14	17	1.4	17	1.4	17	66	0.037	0.14	0.7	3.7	1.4	17	0.7	10
PCB-1242 (AROCOLOR)	53469-21-9	[0.033]	[0.13]	E	[0.13]	[400]	E	[3.3]	[400]	E	[1,200]	E	[0.033]	[0.13]	E	[0.13]	[16]	E	10	
		0.037	0.17	20	3.7	440	20	4.0	440	20	1,200	0.037	0.17	20	4.0	440	20	4.0	10	
PCB-1248 (AROCOLOR)	12672-29-6	[0.033]	[0.13]	E	[0.13]	[62]	E	[3.3]	[1,600]	E	[2,600]	E	[0.033]	[0.13]	E	[0.13]	[62]	E	10	
		0.037	0.17	81	3.7	1,800	81	4.0	1,800	81	2,600	0.037	0.17	81	4.0	1,800	81	4.0	10	
PCB-1254 (AROCOLOR)	11097-69-1	[0.033]	[0.13]	E	[0.13]	[260]	E	[3.3]	[6,700]	E	[10,000]	C	[0.033]	[0.13]	E	[0.13]	[260]	E	5	
		0.037	0.17	340	3.7	7,500	340	4.0	7,500	340	10,000	0.037	0.17	340	4.0	7,500	340	4.0	5	
PCB-1260 (AROCOLOR)	11096-82-5	[0.033]	[0.13]	E	[0.13]	[590]	E	[3.3]	[15,000]	E	[36,000]	E	[0.033]	[0.13]	E	[0.13]	[150]	E	5	
		0.037	0.17	770	3.7	17,000	770	4.0	17,000	770	36,000	0.037	0.17	770	4.0	17,000	770	4.0	5	
PEBULATE	1114-71-2	[180]	[300]	E	[510]	[860]	E	9,200	10,000	C	10,000	C	[180]	[300]	E	[510]	[860]	E	30	
		210	350	980	3.3	260	9.3	750	9.3	260	980	210	350	980	3.3	260	9.3	750	9.3	30
PENTACHLOROBENZENE	608-93-5	[2.9]	[230]	E	[8.2]	[660]	E	74	5,900	E	5,900	E	[2.9]	[230]	E	[8.2]	[660]	E	10	
		3.3	260	750	3.3	260	750	74	5,900	E	5,900	E	3.3	260	750	3.3	260	750	74	10
PENTACHLOROETHANE	76-01-7	[0.73]	[3.6]	E	[2.9]	[14]	E	[73]	[360]	E	[1,400]	E	[0.73]	[3.6]	E	[2.9]	[14]	E	20	
		0.81	3.9	19	3.8	81	390	19	3.8	81	390	19	3.8	81	390	3.8	81	390	19	20
PENTACHLORO NITROBENZENE	82-68-8	[0.25]	[5]	E	1	[20]	E	[25]	[500]	E	870	E	[0.25]	[5]	E	44	870	E	15	
		0.28	6	26	6	26	26	44	500	E	870	E	0.28	6	26	6	26	26	44	15
PENTACHLOROPHENOL	87-86-5	0.1	5	E	0.1	5	E	10	500	E	500	E	0.1	5	E	100	5,000	E	10	
		[30]	[12]	E	[120]	[46]	E	[3,000]	[1,200]	E	[4,600]	E	[30]	[12]	E	[120]	[46]	E	10	
PHENACETIN	62-44-2	33	13	58	150	58	150	150	1,300	E	5,800	E	[30,000]	[12,000]	E	76,000	29,000	E	NA	
		110	10,000	E	110	10,000	E	110	10,000	E	110	10,000	E	110	10,000	E	110	10,000	E	10
PHENANTHRENE	85-01-8	200	33	200	33	200	33	200	3,300	E	10,000	E	200	33	200	33	200	3,300	E	10
		200	33	200	33	200	33	200	3,300	E	10,000	E	200	33	200	33	200	3,300	E	10
PHENOL	108-95-2	[0.037]	[0.056]	E	[0.1]	[0.15]	E	[3.7]	[5.6]	E	[15]	E	[0.037]	[0.056]	E	[0.1]	[0.15]	E	30	
		4,200	6,400	12	18	18	18	420	640	640	15	1,800	E	4,200	6,400	12	18	18	18	30
PHENYLENEDIAMINE, M-	108-45-2	[22]	[3.1]	E	[61]	[8.6]	E	[2,200]	[310]	E	[860]	E	[22]	[3.1]	E	[61]	[8.6]	E	NA	
		25	3.5	9.9	70	9.9	70	2,200	310	310	860	E	25	3.5	9.9	70	9.9	70	9.9	NA
PHENYLPHENOL, 2-	90-43-7	[35]	[500]	E	[140]	[2,000]	E	[3,500]	[50,000]	E	[190,000]	E	[35]	[500]	E	[140]	[2,000]	E	15	
		38	550	2,600	180	2,600	180	3,500	55,000	E	190,000	E	38	550	2,600	180	2,600	180	2,600	15
PHOSPHATE	298-02-2	[0.73]	[1.6]	E	2	[4.3]	E	[200]	[430]	E	[430]	E	[0.73]	[1.6]	E	2	[4.3]	E	30	
		0.83	1.8	4.9	83	180	49	200	430	430	430	E	0.83	1.8	4.9	83	180	49	4.9	30
PHTHALIC ANHYDRIDE	85-44-9	[7,300]	[2,300]	E	[20,000]	[6,200]	E	190,000	190,000	C	190,000	C	[7,300]	[2,300]	E	[20,000]	[6,200]	E	NA	
		8,300	2,600	7,100	23,000	7,100	23,000	190,000	190,000	C	190,000	C	8,300	2,600	7,100	23,000	7,100	23,000	7,100	23,000
PICLORAM	1918-02-1	50	7.4	E	50	7.4	E	5,000	740	E	740	E	50	7.4	E	50	7.4	E	NA	
		40	39	E	40	39	E	4,000	3,900	E	3,900	E	40	39	E	40	39	E	40	39
PROMETON	1610-18-0	[270]	[170]	E	[170]	[470]	E	1,500	920	E	920	E	[270]	[170]	E	[170]	[470]	E	NA	
		310	190	540	880	540	880	1,500	920	E	920	E	310	190	540	880	540	880	540	880

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		TDS ≤ 2500						TDS > 2500									
		Residential			Non-Residential			Residential			Non-Residential						
		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value				
PROPANIL	709-98-8	[18] 21	[9.2] 11	E E	[26] 30	[1,800] 2,100	E E	[1,800] 2,100	[920] 1,100	E C	[18] 21	[9.2] 11	E E	[51] 58	[26] 30	E E	NA
PROPANOL, 2- (ISOPROPYL ALCOHOL)	67-63-0	1,500	260	E	1,100	10,000	E	10,000	10,000	C	1,500	260	E	6,200	1,100	E	NA
PROPANINE	139-40-2	1	0.5	E	0.5	100	E	100	50	E	1	0.5	E	1	0.5	E	NA
PROPHAM	122-42-9	10	2.4	E	2.4	1,000	E	1,000	240	E	10	2.4	E	10	2.4	E	NA
PROPYLBENZENE, N-	103-65-1	[150] 210	[290] 400	E E	[780] 1,700	5,200 880	E E	5,200 9,900	9,900 9,900	E E	[150] 210	[290] 400	E E	[410] 880	[780] 1,700	E E	30
PROPYLENE OXIDE	75-56-9	[0.28] 0.3	[0.049] 0.052	E E	[0.19] 0.24	[1.1] 1.4	E E	[1.1] 1.40	[19] 24	E C	[0.28] 0.30	[0.049] 0.052	E E	[1.1] 1.4	[0.19] 0.24	E E	NA
PYRENE	129-00-0	13	2,200	E	13	2,200	E	13	2,200	E	13	2,200	E	13	2,200	E	10
PYRIDINE	110-86-1	[3.7] 4.2	[0.41] 0.47	E E	[1.1] 1.3	[370] 420	E E	[1,000] 1,200	[110] 130	E E	[37] 42	[4.1] 4.7	E E	[100] 120	[11] 13	E E	NA
QUINOLINE	91-22-5	[0.022] 0.024	[0.074] 0.081	E E	[0.29] 0.37	[2.2] 2.4	E E	[8.7] 11	[29] 37	E E	[22] 24	[7.4] 8.1	E E	[87] 110	[290] 370	E E	20
QUIZALOFOP (ASSUIRE)	76578-14-8	30	47	E	47	30	E	30	47	E	30	47	E	30	47	E	30
RDX	121-82-4	0.2	0.057	E	0.2	20	E	20	5.7	E	0.2	0.057	E	0.2	0.057	E	NA
RESORCINOL	108-46-3	[7,300] 8,300	[850] 970	E E	[2,300] 2,700	190,000 23,000	E E	190,000 97,000	190,000 190,000	C C	[7,300] 8,300	[850] 970	E E	[20,000] 23,000	[2,300] 2,700	E E	NA
RONNEL	299-84-3	[180] 210	[280] 330	E E	[800] 910	4,000 580	E E	4,000 6,200	6,200 6,200	E E	[180] 210	[280] 330	E E	[510] 580	[800] 910	E E	30
SMAZINE	122-34-9	0.4	0.15	E	0.4	40	E	40	15	E	0.4	0.15	E	0.4	0.15	E	NA
STRYCHNINE	57-24-9	[1.1] 1.3	[0.89] 1.1	E E	[2.5] 2.8	[110] 130	E E	[310] 350	[250] 280	E E	[1,100] 1,300	[890] 1,100	E E	[3,100] 3,500	[2,500] 2,800	E E	NA
STYRENE	100-42-5	10	24	E	24	10	E	1,000	2,400	E	1,000	2,400	E	1,000	2,400	E	30
TEBUTHIURON	34014-18-1	50	83	E	83	50	E	5,000	8,300	E	50	83	E	50	83	E	30
TERBACIL	5902-51-2	9	2.2	E	2.2	900	E	900	220	E	9	2.2	E	9	2.2	E	NA
TERBUFOS	13071-79-9	0.04	0.055	E	0.04	4	E	4	5.5	E	0.04	0.055	E	0.04	0.055	E	30
TETRACHLOROBENZENE, 1,2,4,5-	95-94-3	[1.1] 1.3	[5.1] 6	E E	[14] 16	58 6	E E	58 6	270 270	E E	58 6	270 270	E E	58 6	270 270	E E	20
TETRACHLORODIBENZO-P-DIOXIN, 2,3,7,8- (TCDD)	1746-01-6	0.000003	0.032	E	0.032	0.000003	E	0.0003	3.2	E	0.0003	3.2	E	0.0019	20	E	5
TETRACHLOROETHANE, 1,1,1,2-	630-20-6	7	18	E	18	700	E	700	1,800	E	700	1,800	E	700	1,800	E	30
TETRACHLOROETHANE, 1,1,2,2-	79-34-5	0.08	0.026	E	0.43	0.43	E	43	13	E	8	2.6	E	43	13	E	NA
TETRACHLOROETHYLENE (PCE)	127-18-4	0.5	0.43	E	0.5	50	E	50	43	E	5	4.3	E	5	4.3	E	NA

¹ For other options see § 250.308
 All concentrations in mg/kg
 E – Number calculated by the soil to groundwater equation in § 250.308
 C – Cap

NA – The soil buffer distance option is not available for this substance
THMs – The values listed for trihalomethanes (THMs) are the total for all THMs combined.
HAAs – The values listed for haloacetic acids (HAAs) are the total for all HAAs combined.

APPENDIX A
TABLE 3—MEDIUM-SPECIFIC CONCENTRATIONS (MSCs) FOR ORGANIC REGULATED SUBSTANCES IN SOIL
B. Soil to Groundwater Numeric Values¹

REGULATED SUBSTANCE	CASRN	Used Aquifers												Non-Use Aquifers				Soil Buffer Distance (feet)
		TDS ≤ 2500						TDS > 2500						Residential		Non-Residential		
		Residential		Non-Residential		Residential		Non-Residential		Residential		Non-Residential		Residential		Non-Residential		
		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	
TETRACHLOROPHENOL, 2,3,4,6-	58-90-2	[110]	[1,700]	[310]	[4,800]	[11,000]	[170,000]	[18,000]	[190,000]	[18,000]	[190,000]	[18,000]	[190,000]	[18,000]	[190,000]	C	15	
TETRAETHYL LEAD	78-00-2	[0,00037]	[0,0046]	[0,0011]	[0,012]	[0,037]	[0,46]	E	E	E	E	E	E	E	E	E	15	
TETRAETHYLDITHIO PYROPHOSPHATE	3689-24-5	[1,8]	[2,7]	[5,1]	[7,6]	[180]	[270]	[510]	[760]	[510]	[760]	[510]	[760]	[510]	[760]	E	30	
TETRAHYDROFURAN	109-99-9	[2,5]	[0,55]	E	2,8	[250]	[55]	E	E	E	E	E	E	E	E	E	NA	
THIOFANOX	39196-18-4	[1,1]	[0,12]	E	[0,34]	[110]	[12]	E	E	E	E	E	E	E	E	E	NA	
THIRAM	137-26-8	[18]	[47]	E	[130]	[4,700]	[5,500]	E	E	E	E	E	E	E	E	E	20	
TOLUENE	108-88-3	100	44	E	100	44	E	E	E	E	E	E	E	E	E	E	NA	
TOLUIDINE, M-	108-44-1	[0,37]	[0,17]	E	[1,4]	[0,65]	E	E	E	E	E	E	E	E	E	E	NA	
TOLUIDINE, O-	95-53-4	[0,37]	[0,42]	E	[1,4]	[1,6]	E	E	E	E	E	E	E	E	E	E	NA	
TOLUIDINE, P-	106-49-0	[0,35]	[0,32]	E	[1,4]	[1,3]	E	E	E	E	E	E	E	E	E	E	NA	
TOXAPHENE	8001-35-2	0,3	1,2	E	0,3	1,2	E	E	E	E	E	E	E	E	E	E	20	
TRIALATE	2303-17-5	54	280	E	[130]	[660]	E	E	E	E	E	E	E	E	E	E	15	
TRIBROMOMETHANE (BROMOFORM) (THM)	75-25-2	8	3,5	E	8	3,5	E	E	E	E	E	E	E	E	E	E	NA	
TRICHLORO-1,2,2-TRIFLUOROETHANE, 1,1,2-(HAA)	76-13-1	6,300	10,000	C	10,000	10,000	C	E	E	E	E	E	E	E	E	E	20	
TRICHLOROACETIC ACID (HAA)	76-03-9	2	0,32	E	2	0,32	E	E	E	E	E	E	E	E	E	E	NA	
TRICHLOROBENZENE, 1,2,4-	120-82-1	7	27	E	7	27	E	E	E	E	E	E	E	E	E	E	20	
TRICHLOROBENZENE, 1,3,5-	108-70-3	4	31	E	4	31	E	E	E	E	E	E	E	E	E	E	15	
TRICHLOROETHANE, 1,1,1-	71-55-6	20	7,2	E	20	7,2	E	E	E	E	E	E	E	E	E	E	NA	
TRICHLOROETHANE, 1,1,2-	79-00-5	0,5	0,15	E	0,5	0,15	E	E	E	E	E	E	E	E	E	E	NA	
TRICHLOROETHYLENE (TCE)	79-01-6	0,5	0,17	E	0,5	0,17	E	E	E	E	E	E	E	E	E	E	NA	
TRICHLOROPHENOL, 2,4,5-	95-95-4	[370]	[2,300]	E	[1,000]	[16,100]	E	E	E	E	E	E	E	E	E	E	15	
TRICHLOROPHENOL, 2,4,6-	88-06-2	4,2	[11]	E	[10]	[29]	E	E	E	E	E	E	E	E	E	E	20	

¹ For other options see § 250.308
 All concentrations in mg/kg
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 C – Cap

NA – The soil buffer distance option is not available for this substance
THMs – The values listed for trihalomethanes (THMs) are the total for all THMs combined.
HAAs – The values listed for haloacetic acids (HAAs) are the total for all HAAs combined.

APPENDIX A
 TABLE 3—MEDIUM-SPECIFIC CONCENTRATIONS (MSCs) FOR ORGANIC REGULATED SUBSTANCES IN SOIL
 B. Soil to Groundwater Numeric Values¹

REGULATED SUBSTANCE	CASRN	Used Aquifers						Non-Use Aquifers						Soil Buffer Distance (feet)				
		TDS ≤ 2,500			TDS > 2,500			Residential			Non-Residential							
		Residential		Non-Residential	Residential		Non-Residential	Residential		Non-Residential	Residential		Non-Residential					
		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value					
TRICHLOROPHENOXY ACETIC ACID, 2,4,5-(2,4,5-I)	93-76-5	7	1.5 E	7	1.5 E	700	150 E	700	150 E	700	150 E	700	150 E	7,000	1,500 E	7,000	1,500 E	NA
TRICHLOROPHENOXY PROPIONIC ACID, 2,4,5-(2,4,5-I) (SILVEX)	93-72-1	5	22 E	5	22 E	500	2,200 E	500	2,200 E	500	2,200 E	500	2,200 E	5	22 E	5	22 E	20
TRICHLOROPROPANE, 1,1,2-	598-77-6	[18] 21	[3.1] 3.6	[51] 58	[8.7] 9.9	[1,800] 2,100	[310] 360	[5,100] 5,800	[870] 990	[18] 21	[3.1] 3.6	[51] 58	[8.7] 9.9	[18] 21	[3.1] 3.6	[51] 58	[8.7] 9.9	NA
TRICHLOROPROPANE, 1,2,3-	96-18-4	4	3.2 E	4	3.2 E	400	320 E	400	320 E	400	320 E	400	320 E	400	320 E	400	320 E	NA
TRICHLOROPROPENE, 1,2,3-	96-19-5	[0.21] 0.063	[0.12] 0.037	[0.88] 0.26	[0.52] 0.15	[21] 6.3	[12] 3.7	[88] 26	[52] 15	[0.21] 0.063	[0.12] 0.037	[0.88] 0.26	[0.52] 0.15	[0.21] 0.063	[0.12] 0.037	[0.88] 0.26	[0.52] 0.15	NA
TRIMETHYLAMINE	121-44-8	1.5	0.36 E	6.2	1.5 E	150	36 E	620	150 E	1.5	0.36 E	6.2	1.5 E	1.5	0.36 E	6.2	1.5 E	NA
TRIFLURALIN	1582-09-8	1	1.9 E	1	1.9 E	100	190 E	100	190 E	1	1.9 E	1	1.9 E	1	1.9 E	1	1.9 E	30
TRIMETHYLBENZENE, 1,3,4-(TRIMETHYLBENZENE, 1,2,4-)	95-63-6	1.5	8.4 E	6.2	35 E	150	840 E	620	3,200 E	150	840 E	620	3,500 E	150	840 E	620	3,500 E	15
TRIMETHYLBENZENE, 1,3,5-	108-67-8	[1.3] 42	[2.3] 7.4	[5.3] 120	[9.3] 210	[1,30] 4,200	[230] 7,400	[530] 4,900	[930] 8,600	[1.3] 42	[2.3] 7.4	[5.3] 120	[9.3] 210	[1.3] 42	[2.3] 7.4	[5.3] 120	[9.3] 210	30
TRINITROGLYCEROL (NITROGLYCERIN)	55-63-0	0.5	0.056 E	0.5	0.056 E	50	5.6 E	50	5.6 E	0.5	0.056 E	0.5	0.056 E	0.5	0.056 E	0.5	0.056 E	NA
TRINITROTOLUENE, 2,4,6-	118-96-7	0.2	0.023 E	0.2	0.023 E	20	2.3 E	20	2.3 E	0.2	0.023 E	0.2	0.023 E	0.2	0.023 E	0.2	0.023 E	NA
VINYL ACETATE	108-05-4	42	5 E	180	21 E	4,200	500 E	10,000	2,100 E	42	5 E	180	21 E	42	5 E	180	21 E	NA
VINYLBROMIDE (BROMOETHENE)	593-60-2	0.15	0.073 E	0.78	0.38 E	15	7.3 E	78	38 E	1.5	0.73 E	7.8	3.8 E	1.5	0.73 E	7.8	3.8 E	NA
VINYLCHLORIDE	75-01-4	0.2	0.027 E	0.2	0.027 E	20	2.7 E	20	2.7 E	0.2	0.027 E	0.2	0.027 E	0.2	0.027 E	0.2	0.027 E	NA
WARFARIN	81-81-2	[1.1] 1.3	[2.6] 3.1	[3.1] 3.5	[7.4] 8.4	[110] 130	[260] 310	[310] 350	[740] 840	[1.1] 1.3	[2.6] 3.1	[3.1] 3.5	[7.4] 8.4	[1.1] 1.3	[2.6] 3.1	[3.1] 3.5	[7.4] 8.4	30
XYLENES (TOTAL)	1330-20-7	1,000	990 E	1,000	990 E	10,000	10,000 C	10,000	10,000 C	10,000	10,000 C	10,000	10,000 C	10,000	10,000 C	10,000	10,000 C	NA
ZINEB	12122-67-7	[180] 210	[29] 33	[510] 580	[81] 92	1,000	160 E	1,000	160 E	[180] 210	[29] 33	[510] 580	[81] 92	[180] 210	[29] 33	[510] 580	[81] 92	NA

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 All concentrations in mg/kg
 E – Number calculated by the soil to groundwater equation in § 250.308
 C – Cap

NA – The soil buffer distance option is not available for this substance
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HAA5 – The values listed for haloacetic acids (HAA5) are the total for all HAA5 combined.

APPENDIX A
TABLE 4—MEDIUM-SPECIFIC CONCENTRATIONS (MSCs) FOR INORGANIC REGULATED
SUBSTANCES IN SOIL
A. Direct Contact Numeric Values

REGULATED SUBSTANCE	CASRN	Residential MSC 0-15 feet		Non-Residential MSCs			
				Surface Soil 0-2 feet		Subsurface Soil 2-15 feet	
ALUMINUM	7429-90-5	190,000	C	190,000	C	190,000	C
ANTIMONY	7440-36-0	88	G	[1,100] 1,300	G	190,000	C
ARSENIC	7440-38-2	12	G	[53] 61	G	190,000	C
BARIUM AND COMPOUNDS	7440-39-3	44,000	G	190,000	C	190,000	C
BERYLLIUM	7440-41-7	440	G	[5,600] 6,400	G	190,000	C
BORON AND COMPOUNDS	7440-42-8	44,000	G	190,000	C	190,000	C
CADMIUM	7440-43-9	110	G	[1,400] 1,600	G	190,000	C
CHROMIUM III	16065-83-1	190,000	C	190,000	C	190,000	C
CHROMIUM VI	18540-29-9	660	G	[8,400] 9,600	G	20,000	N
COBALT	7440-48-4	66	G	[840] 960	G	190,000	[C] N
COPPER	7440-50-8	8,100	G	[100,000] 120,000	G	190,000	C
CYANIDE, FREE	57-12-5	[4,400] 130	G	[56,000] 1,900	G	190,000	C
FLUORIDE	16984-48-8	8,800	G	[110,000] 130,000	G	190,000	[G] C
IRON	7439-89-6	150,000	G	190,000	C	190,000	C
LEAD	7439-92-1	500	U	1,000	S	190,000	C
LITHIUM	[7439-93-0] 7439-93-2	440	G	[5,600] 6,400	G	190,000	C
MANGANESE	7439-96-5	10,000	G	[130,000] 150,000	G	190,000	C
MERCURY	7439-97-6	35	G	[450] 510	G	190,000	C
MOLYBDENUM	7439-98-7	1,100	G	[14,000] 16,000	G	190,000	C
NICKEL	7440-02-0	4,400	G	[56,000] 64,000	G	190,000	C
PERCHLORATE	7790-98-9	150	G	[2,000] 2,200	G	190,000	C
SELENIUM	7782-49-2	1,100	G	[14,000] 16,000	G	190,000	C
SILVER	7440-22-4	1,100	G	[14,000] 16,000	G	190,000	C
STRONTIUM	7440-24-6	130,000	G	190,000	C	190,000	C
THALLIUM	7440-28-0	[15] 2	G	[200] 32	G	190,000	C
TIN	7440-31-5	130,000	G	190,000	C	190,000	C
VANADIUM	7440-62-2	[1,500] 15	G	[20,000] 220	G	190,000	C
ZINC	7440-66-6	66,000	G	190,000	C	190,000	C

All concentrations in mg/kg (except asbestos, which is in fibers/kg)

- R – Residential
- NR – Non-Residential
- G – Ingestion
- [H] N – Inhalation
- C- Cap
- U – UBK Model
- S – SEGH Model
- NA – Not Applicable

APPENDIX A
TABLE 4—MEDIUM-SPECIFIC CONCENTRATIONS (MSCs) FOR INORGANIC REGULATED SUBSTANCES IN SOIL
B. Soil to Groundwater Numeric Values¹

REGULATED SUBSTANCE	CASRN	Used Aquifers						TDS > 2500						Soil Buffer Distance (feet)					
		TDS <= 2500			TDS > 2500			TDS <= 2500			TDS > 2500								
		R	100 X GW MSC	Generic Value	NR	100 X GW MSC	Generic Value	R	100 X GW MSC	Generic Value	NR	100 X GW MSC	Generic Value		R	100 X GW MSC	Generic Value	NR	100 X GW MSC
ALUMINUM	7429-90-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	7440-36-0	0.6	0.6	27	60	2,700	60	2,700	600	27,000	600	27,000	600	27,000	600	27,000	600	27,000	600
ARSENIC	7440-38-2	1	1	29	100	2,900	100	2,900	1,000	29,000	1,000	29,000	1,000	29,000	1,000	29,000	1,000	29,000	1,000
BARIUM AND COMPOUNDS	7440-39-3	200	200	8,200	20,000	190,000	20,000	190,000	20,000	190,000	20,000	190,000	20,000	190,000	20,000	190,000	20,000	190,000	20,000
BERYLLIUM	7440-41-7	0.4	0.4	320	40	32,000	40	32,000	40	32,000	40	32,000	40	32,000	40	32,000	40	32,000	40
BORON AND COMPOUNDS	7440-42-8	600	600	1,900	60,000	190,000	60,000	190,000	60,000	190,000	60,000	190,000	60,000	190,000	60,000	190,000	60,000	190,000	60,000
CADMIUM	7440-43-9	0.5	0.5	38	50	3,800	50	3,800	50	3,800	50	3,800	50	3,800	50	3,800	50	3,800	50
CHROMIUM (III)	16065-83-1	10	10	190,000	1,000	19,000	1,000	19,000	1,000	19,000	1,000	19,000	1,000	19,000	1,000	19,000	1,000	19,000	1,000
CHROMIUM (VI)	18540-29-9	10	10	190	1,000	19,000	1,000	19,000	1,000	19,000	1,000	19,000	1,000	19,000	1,000	19,000	1,000	19,000	1,000
COBALT	7440-48-4	1	[50]	[140]	[3]	[5,000]	[110]	[5,000]	[310]	[14,000]	[1,100]	[50,000]	[1,100]	[50,000]	[3,100]	[140,000]	[1,100]	[50,000]	[3,100]
COPPER	7440-50-8	20	20	43,000	100	4,300	100	43,000	100	4,300	100	43,000	100	4,300	100	43,000	100	4,300	100
CYANIDE, FREE	57-12-5	20	20	200	20	2,000	20	2,000	20	2,000	20	2,000	20	2,000	20	2,000	20	2,000	20
FLUORIDE	16984-48-8	400	400	44	40,000	4,400	40,000	4,400	40,000	4,400	40,000	4,400	40,000	4,400	40,000	4,400	40,000	4,400	40,000
IRON	7439-89-6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	7439-92-1	0.5	0.5	450	50	45,000	50	45,000	50	45,000	50	45,000	50	45,000	50	45,000	50	45,000	50
LITHIUM	7439-93-2	[7]	[20]	[6,000]	[20]	[190,000]	[730]	[6,000]	[2,000]	[190,000]	[7,300]	[190,000]	[7,300]	[190,000]	[20,000]	[190,000]	[7,300]	[190,000]	[20,000]
MANGANESE	7439-96-5	30	30	2,000	30	2,000	30	2,000	30	2,000	30	2,000	30	2,000	30	2,000	30	2,000	30
MERCURY	7439-97-6	0.2	0.2	10	10	1,000	10	1,000	20	1,000	20	1,000	20	1,000	20	1,000	20	1,000	20
MOLYBDENUM	7439-98-7	4	4	650	400	65,000	400	65,000	400	65,000	400	65,000	400	65,000	400	65,000	400	65,000	400
NICKEL	7440-02-0	10	10	650	1,000	65,000	1,000	65,000	1,000	65,000	1,000	65,000	1,000	65,000	1,000	65,000	1,000	65,000	1,000
PERCHLORATE	7790-98-9	1.5	1.5	0.17	150	17	150	17	150	17	150	17	150	17	150	17	150	17	150
SELENIUM	7782-49-2	5	5	26	500	2,600	500	2,600	500	2,600	500	2,600	500	2,600	500	2,600	500	2,600	500
SILVER	7440-22-4	10	10	84	1,000	8,400	1,000	8,400	1,000	8,400	1,000	8,400	1,000	8,400	1,000	8,400	1,000	8,400	1,000
STRONTIUM	7440-24-6	400	400	44	40,000	4,400	40,000	4,400	40,000	4,400	40,000	4,400	40,000	4,400	40,000	4,400	40,000	4,400	40,000

¹For other options see [Section] § 250.308
 All concentrations in mg/kg
 R – Residential
 NR – Non-Residential
 NA – Not Applicable

APPENDIX A
 TABLE 4—MEDIUM-SPECIFIC CONCENTRATIONS (MSCs) FOR INORGANIC REGULATED SUBSTANCES IN SOIL
 B. Soil to Groundwater Numeric Values¹

REGULATED SUBSTANCE	CASRN	Used Aquifers						Non-use Aquifers						Soil Buffer Distance (feet)		
		TDS ≤ 2500			TDS > 2500			R			NR					
		100 X GW MSC	Generic Value	NR	100 X GW MSC	Generic Value	NR	100 X GW MSC	Generic Value	NR	100 X GW MSC	Generic Value	NR			
THALLIUM	7440-28-0	0.2	14	[0.20] 0.2	14	20	1,400	20	1,400	20	1,400	200	14,000	200	14,000	15
TIN	7440-31-5	[2,200] 2,500	190,000	[6,100] 7,000	190,000	190,000	190,000	190,000	190,000	190,000	190,000	190,000	190,000	190,000	190,000	10
VANADIUM	7440-62-2	[26] 0.29	[26,000] 290	[72] 0.82	[72,000] 820	[2,600] 29	[190,000] 29,000	[7,200] 82	[190,000] 82,000	[26,000] 290	[190,000] 290	[190,000] 820	[190,000] 190,000	[190,000] 190,000	[190,000] 190,000	5
ZINC	7440-66-6	200	12,000	200	12,000	20,000	190,000	20,000	190,000	20,000	190,000	190,000	190,000	190,000	190,000	15

¹For other options see [Section] § 250.308
 All concentrations in mg/kg
 R – Residential
 NR – Non-Residential
 NA – Not Applicable

APPENDIX A
TABLE 5—PHYSICAL AND TOXICOLOGICAL PROPERTIES
A. Organic Regulated Substances

Regulated Substance	CAS	RD ₅₀ (mg/kg-d)	CSF ₀ (mg/kg-d) ⁻¹	BC ₁ (mg/m ³)	IUR (µg/m ³) ⁻¹	Koc (L/KG)	10C ²	Aqueous Sol (mg/L)	Aqueous Sol Reference ¹	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K/yr ⁻¹)
ACENAPHTHENE	83-32-9	0.06	I			4.900		3.8	1.5,6				279	1.24
ACENAPHTHYLENE	208-96-8	0.06	S			4.500		16.1	5,6,7				280	2.11
ACEPHATE	30560-19-1	0.004	I	0.0087	I	3	X	818,000	6			X	340	
ACETALDEHYDE	75-07-0	0.9	I			4.1	X	1,000,000	1	13,100	15,100	X	20	
ACETONITRILE	67-64-1	0.9	I	31	D	0.31	X	1,000,000	1	13,100	15,000	X	56	18.07
ACETOPHENONE	75-05-8	0.06	I	0.06	I	0.5	X	1,000,000	1	13,100	15,000	X	82	4.50
ACETOPHENONE	98-86-2	0.1	I			170		5500	1			X	203	
ACETYLAMINO-FLUORENE, 2-(2AAAF)	53-96-3					1,600	C	10.13	7				303	0.69
ACROLEIN	107-02-8	0.0005	I	0.00002	I	0.56	X	208,000	1,2,4	13,100	15,100	X	53	4.50
ACRYLAMIDE	79-06-1	0.0002	I	0.006	I	25	X	2,151,000	4	13,000	15,000		193	
ACRYLIC ACID	79-10-7	0.5	I	0.001	I	29	X	1,000,000	2	13,000	14,900	X	141	1.39
ACRYLONITRILE	107-13-1	0.04	D	0.002	I	11	X	75,500	1	13,100	15,100	X	77	5.50
ALACHLOR	15972-60-8	0.01	I	0.056	C	110		140	2				378	
ALDICARB	116-06-3	0.001	I			22		6,000	2				287	0.40
ALDICARB SULFONE	1646-88-4	0.001	I			10		8,000	5				317	
ALDICARB SULFOXIDE	1646-87-3	0.001	M			0.22		330,000	5				307	
ALDRIN	309-00-2	0.0003	I	17	I	48,000		0.02	4,5,6				330	0.22
ALLYL ALCOHOL	107-18-6	0.005	I	0.00031	[P]	3.2	X	1,000,000	2	13,100	15,000	X	97	18.07
AMETRYN	834-12-8	0.009	I		X	389		185	5				345	
AMINOBIIPHENYL, 4-	92-67-1			21	C	110		1,200	5				302	18.07
AMITROLE	61-82-5			0.94	C	120		280,000	4				258	0.69
AMMONIA	7664-41-7	0.97	H	0.1	I	3	X	310,000	2,5,7	13,100	15,000	X	-33	
AMMONIUM SULFAMATE	7773-06-0	0.2	I			3		21,600,000	10				603	
ANILINE	62-53-3	0.007	P	0.0057	I	190	X	33,800	1	13,000	14,900	X	184	
ANTHRACENE	120-12-7	0.3	I			21,000		0.066	1,5,6,7,8,9				340	0.28
ATRAZINE	1912-24-9	0.035	I	0.23	C	130		70	2,4,5				313	
AZINPHOS-METHYL (GUTHION)	86-50-0	0.003	D	0.01	D	407.4		31.5	1				421	
BAYGON (PROPOXUR)	114-26-1	0.004	I			31		2,000	2,4,5			decomp.	520	4.50
BENOMYL	17804-35-2	0.05	I			1,900		2	5				5	
BENTAZON	25057-89-0	0.03	I			13		500	2				415	
BENZENE	71-43-2	0.004	I	0.055	I	58	X	1,780.5	1,2,3,4	13,100	15,000	X	81	0.35
BENZIDINE	92-87-5	0.003	I	230	I	530,000		520	1,2,4				400	15.81
BENZO(A)ANTHRACENE	56-55-3			[0.73] [N]		350,000		0.011	1,5,6				438	0.19
BENZO(A)PYRENE	50-32-8			0.7	X									
BENZO(B)FLUORANTHENE	205-99-2			7.3	I	910,000		0.0038	1,5,6				495	0.24
BENZO(G)HUIPERYLENE	191-24-2	0.06	S	0.73	N	550,000		0.0012	5,6,7				357	0.21
BENZO(K)FLUORANTHENE	207-08-9					2,800,000		0.00026	1,5,6				500	0.19
BENZOIC ACID	65-85-0	4	I	0.073	N	4,400,000		0.00055	5,6,7				480	0.06
BENZOTRICHLORIDE	98-07-7			13	I	920		2,700	2,3,4,5			X	249	
								53	1,5,13				221	121413.60

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APPENDIX A
TABLE 5—PHYSICAL AND TOXICOLOGICAL PROPERTIES
A. Organic Regulated Substances

Regulated Substance	CAS	RD50 (mg/kg-d)	CSFo (mg/kg-d) ¹	BCI (mg/m ³)	IUR (µg/m ³) ¹	Koc (L/KG)	10C ²	Aqueous Sol (mg/L)	Aqueous Sol Reference ¹	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K/yr ¹)
BENZYL ALCOHOL	100-51-6	[0.5] 0.1				100		40,000	1,2,3			X	205	
BENZYL CHLORIDE	100-44-7	0.002	P	0.001	0.000049	190	X	493		13,000	15,000	X	179	20.90
BETA PROIOLACTONE	57-57-8		C		0.004	4	X	370,000	2	13,100	15,000	X	162	0.01
BHC, ALPHA	319-84-6	0.008	D		0.0018	1,800		1.7	4,5,6,7				288	0.94
BHC, BETA-	319-85-7		I		0.00053	2,300		0.1	6				304	1.02
BHC, GAMMA (LINDANE)	58-89-9	0.0003	I		0.00031	1,400		7.3	4,5,6				323	1.05
BIPHENYL, 1,1-	92-52-4	[0.05] 0.5	X	0.0004		1,700		7.2	1				255	18.07
BIS(2-CHLORO ETHOXY)METHANE	111-91-1	0.003	P			61		100,500	4,6,7,9,10,11			X	218	
BIS(2- CHLOROETHYL)ETHER	111-44-4		I		0.00033	76	X	10,200	1,4,5	13,000	14,900	X	179	0.69
BIS(2-CHLORO- ISOPROPYL)ETHER	108-60-1	0.04	I	H	0.00001	62	X	1,700	5	13,000	14,900	X	189	0.69
BIS(CHLOROMETHYL)ETHER	542-88-1		I		0.062	16	X	22,000	6	13,100	15,100	X	105	572.70-57
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	0.02	I		0.0000024	87,000		0.285	4,5,6			X	384	0.65
BISPHENOL A	80-05-7	0.05	I			1,500		120	4				220	0.69
BROMACIL	314-40-9	0.1	M			58		815	2				421	
BROMOCHLOROMETHANE	74-97-5	0.01	M	0.04		27	X	16,700	4	13,100	15,000	X	68	
BROMODICHLOROMETHANE	75-27-4	0.02	I		0.000037	93	X	4,500	6	13,100	15,000	X	87	
BROMOMETHANE	74-83-9	0.0014	I		0.005	170	X	17,500	2	13,100	15,000	X	4	6.66
BROMOXYNIL	1689-84-5	0.02	I			300		130	2				329	
BROMOXYNIL OCTANOATE	1689-99-2	0.02	I			18,000		0.08	12				414	
BUTADIENE, 1,3-	106-99-0		I			120	X	735	1	13,200	15,000	X	-4.3	4.50
BUTYL ALCOHOL, N-	71-36-3	0.1	I		0.00003	3.2	X	74,000	1	13,000	14,900	X	118	4.68
BUTYLATE	2008-41-5	0.05	I			840	X	45	2	13,200	15,200	X	138	
BUTYLBENZENE, N-	104-51-8	[0.04] 0.05	[N] P			2,500	X	15	1,6,7	13,100	15,100	X	183	
BUTYLBENZENE, SEC-	135-98-8	[0.04] 0.1	[N] X			890	X	17	1,6,7	13,100	15,000	X	174	
BUTYLBENZENE, TERT-	98-06-6	[0.04] 0.1	[N] X			680	X	30	1,6,7	13,100	15,000	X	169	
BUTYLBENZYL PHTHALATE	85-68-7	0.2	I			34,000		2.69	4,5,6			X	370	1.39
CAPTAN	135-06-2	0.13	I		0.0000066	200		0.5	4				259	589.39
CARBARYL	63-25-2	0.1	I			190		120	2,4,5				315	4.22
CARBAZOLE	86-74-8		H			2,500		1.2	1,5,6				355	
CARBOPURAN	1563-66-2	0.005	I			43		700	2				311	
CARBON DISULFIDE	75-15-0	0.1	I	0.7		300	X	2,100	1,2,3	13,100	15,100	X	46	
CARBON TETRACHLORIDE	56-23-5	[0.0007] 0.004	I	[0.19] 0.1	[0.000015] 0.000006	160	X	795	1,2,3	13,100	15,000	X	77	0.07
CARBOXIN	5234-68-4	0.1	I			260		170	5,6,8				407	

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APPENDIX A
TABLE 5—PHYSICAL AND TOXICOLOGICAL PROPERTIES
A. Organic Regulated Substances

Regulated Substance	CAS	RD50 (mg/kg-d)	CSFo (mg/kg-d) ¹	BCI (mg/m ³)	IUR (µg/m ³) ¹	Koc (L/KG)	10C ²	Aqueous Sol (mg/L)	Aqueous Sol Reference ¹	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K/yr ¹)
CHLORAMBEN	133-90-4	0.015	I			20		700	2				210	
CHLORDANE	57-74-9	0.0005	I	0.0007	I	98,000		0.056	4.5,7				351	0.09
CHLORO-1,1-DIFLUOROETHANE, 1-	75-68-3			50	I			1,400	4	13,100	15,000	X	-9	
CHLORO-1-PROPENE, 3-(ALLYL CHLORIDE)	107-05-1		0.021	0.001	I	0.000006	C	3,300	1,3,5,7,10	13,100	15,000	X	45	18.07
CHLOROACETALDEHYDE	107-20-0		0.3			3.2	X	1,000,000	9	13,000	14,900	X	85	
CHLOROACETOPHENONE, 2-	532-27-4			0.00003	I	76		1,100	3				247	4.50
CHLOROANILINE, P-	106-47-8	0.004	I	0.2	P	460		3,900	1				232	
CHLOROBENZENE	106-90-7	0.02	I	0.05	P	200	X	490	3	13,100	15,000	X	132	0.84
CHLOROBENZILATE	510-15-6	0.02	I	0.11	C	2,600		13	4				415	3.60
CHLOROBUTANE, 1-	109-69-3	[0.4]	P			580	X	680	1,2,3,4	13,200	15,000	X	79	
CHLORODIBROMOMETHANE	124-48-1	0.02	I	0.084	I	83	X	4,200	4,6,7,9	13,100	15,100	X	116	1.39
CHLORODIFLUOROMETHANE	75-45-6			50	I	59	X	2,899	4	13,200	15,000	X	-41	
CHLOROETHANE	75-00-3	0.4	N	10	I	42	X	5,700	1	13,100	15,000	X	12	4.50
CHLOROFORM	67-66-3	0.01	I	0.098	D	56	X	8,000	1,2,3	13,100	15,000	X	61	0.01
CHLORONAPHTHALENE, 2-	91-58-7	0.08	I			8,500		11.7	1				256	
CHLORONITROBENZENE, P-	100-00-5	0.001	P	0.0063	P	480		220	1				242	
CHLOROPHENOL, 2-	95-57-8	0.005	I			400	X	24,000	1,3,4	12,900	14,900	X	175	
CHLOROPRENE	126-99-8	0.02	H	[0.0071]	[H]	50	X	1,736	9	13,100	15,000	X	59	0.69
CHLOROPROPANE, 2-	75-29-6			0.02	I									
CHLOROTHALONIL	1897-45-6	0.015	I	0.0031	C	260	X	3,100	1,3,5	13,200	15,000	X	47	
CHLORTOLUENE, O-	95-49-8	0.02	I	0.1	H	980		0.6	2				350	
CHLORTOLUENE, P-	106-43-4	[0.07]	[P]			760	X	422	[14,15]	13,100	15,000	X	159	
CHLORPYRIFOS	2921-88-2	0.02	X			375	X	106	12	13,000	14,900	X	162	
CHLORSULFURON	64902-72-3	[0.003]	[H]			4,600		1.12	2,4,6,7				377	
CHLORTHAL-DIMETHYL (DACTHAL) (DCPA)	1861-32-1	0.05	I			11		192	2,5,6,8,9				531	
CHRYSENE	218-01-9	0.01	I			6,500		0.5	2,5,7				360	1.37
CRSOL(S)	1319-77-3	0.005	S	0.06	C	490,000		0.0019	1				448	0.13
CRSOL, 4,6-DINITRO-O-	534-52-1	0.0001	P			25	X	20,000	1,2,3	13,000	14,900	X	139	5.16
CRSOL, O-	95-48-7	0.05	I			257		150	4				312	6.02
CRSOL, M	108-39-4	0.05	I			22	X	2,500	3,5,6	13,000	14,900		191	18.07
CRSOL, P	106-44-5	0.005	H			35		2,500	2			X	202	5.16
CRSOL, P-CHLORO-M-	59-50-7	[0.005]	[S]			49		22,000	6				202	9.03
CRSOL, P-CHLORO-M-	4170-30-3	0.1	X			780		3,846	2				235	
CROTONALDEHYDE				1.9	S	5.6	X	180,000	3	13,000	14,900	X	104	18.07

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APPENDIX A
TABLE 5—PHYSICAL AND TOXICOLOGICAL PROPERTIES
A. Organic Regulated Substances

Regulated Substance	CAS	RD50 (mg/kg-d)	CSFo (mg/kg-d) ¹	BC1 (mg/m ³)	IUR (µg/m ³) ¹	Koc (L/KG)	10C ²	Aqueous Sol (mg/L)	Aqueous Sol Reference ¹	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K/yr ¹)
CROTONALDEHYDE, TRANS-	123-73-9	0.001	1.9	H			X	156,000	1	13,100	15,100	X	104	18.07
CUMENE (ISOPROPYL BENZENE)	98-82-8	0.1			0.4	I		50	1.5,6	13,100	15,100	X	152	15.81
CYANAZINE	21725-46-2	0.002	0.84	H				171	2.5				369	
CYCLOHEXANE	110-82-7				6	I		479	1.2,4,5,6	13,100	15,100	X	81	
CYCLOHEXANONE	108-94-1	5			0.7	P	X	36,500	1.2,4,5,6	13,000	14,900	X	157	
CYFLUTHRIN	68359-37-5	0.025						0.001	2				448	
CYROMAZINE	66215-27-8	0.0075						1,200	11,000				222	
DDD, 4,4'-	72-54-8	0.002	0.24	I				0.000069	5.6,7				350	0.02
DDE, 4,4'-	72-55-9		0.34	I				0.16	5				348	0.02
DDT, 4,4'-	50-29-3	0.0005	0.34	I				0.000697	5.6,7				260	0.02
DDT, 4,4'-	103-23-1	0.6	0.0012	I				0.00055	5				214	4.50
ETHYLHEXYLADIPATE								200						
DIALATE	2303-16-4		0.061	H				40	2.4,6,8				328	1.39
DIAMINOTOLUENE, 2,4-	95-80-7		3.8	C				7,470	4				292	0.69
DIAZINON	333-41-5	0.0007						50	2.4,6,8				306	
DIBENZO(A,H)ANTHRACENE	53-70-3		7.3	N				0.0006	1.5,6				524	0.13
DIBENZOFURAN	132-64-9	0.001						4.48	1.6,7,9				287	7.23
DIBROMO-3- CHLOROPROPANE, 1,2-	96-12-8	0.0002	0.8	P				140	4	13,000	15,000	X	196	0.69
DIBROMOBENZENE, 1,4-	106-37-6	0.01						1,600	20				220	
DIBROMOETHANE, 1,2- (ETHYLENE DIBROMIDE)	106-93-4	0.009	2	I				54	1.2,3,5	13,100	15,100	X	131	2.11
DIBROMOMETHANE	74-95-3	0.01						110	1	13,100	15,100	X	96	4.50
DIBUTYL PHTHALATE, N-	84-74-2	0.1						1,600	1.2,3				340	11.00
DICAMBA	1918-00-9	0.03						0.27	4.5,6,8,10				329	
DICHLOROACETIC ACID	76-43-6	0.004	0.05	I				8.1	1	12,900	14,900	X	194	
DICHLORO-2-BUTENE, 1,4-	764-41-0	0.004						180	9	13,100	15,000	X	156	
DICHLORO-2-BUTENE, TRANS-1,4-	110-57-6							215	9	12,900	14,800	X	155	
DICHLOROBENZENE, 1,2-	95-50-1	0.09						350	1.4,5,6,7	13,100	15,100	X	180	0.69
DICHLOROBENZENE, 1,3-	541-73-1	0.003						360	1	13,100	15,100	X	173	0.69
DICHLOROBENZENE, P-	106-46-7	0.07	0.0054	C				510	1	12,900	14,900	X	174	0.69
DICHLOROBENZIDINE, 3,3'-	91-94-1		0.45	I				22,000	4.5,6				368	0.69
DICHLORODIFLUOROMETH ANE (FREON 12)	75-71-8	0.2						360	1	13,200	15,000	X	-50	0.69
DICHLOROETHANE, 1,1-	75-34-3	0.2	0.0057	C				52	2	13,100	15,000	X	57	0.16
DICHLOROETHANE, 1,2-	107-06-2	0.006	0.091	I				38	1.2,3,4	13,100	15,000	X	83	0.07
DICHLOROETHYLENE, 1,1-	75-35-4	0.05						65	1.4,5	13,100	15,000	X	32	0.19
DICHLOROETHYLENE, CIS- 1,2-	156-59-2	0.001						49	1	13,100	15,000	X	60	0.01
DICHLOROETHYLENE, TRANS-1,2-	156-60-5	0.002						47	1	13,100	15,000	X	48	0.01

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APPENDIX A
TABLE 5—PHYSICAL AND TOXICOLOGICAL PROPERTIES
A. Organic Regulated Substances

Regulated Substance	CAS	RD50 (mg/kg-d)	CSFo (mg/kg-d) ¹	RC1 (mg/m ³)	IUR (µg/m ³) ¹	Koc (L/KG)	10C ²	Aqueous Sol Sol (mg/L)	Aqueous Sol Reference ¹	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K/yr ¹)
DICHLOROMETHANE (METHYLENE CHLORIDE)	75-09-2	[0.06] 0.006	[0.0075] 0.002	[1] 0.6	[0.00000047] 0.000000001	16	X	20,000	1,2,3	13,100	15,000	X	40	4.50
DICHLOROPHENOL, 2,4-	120-83-2	0.003				160		4,500	1				210	5.88
DICHLOROPHENOL, 2,4,6-	94-75-7	0.01				59		677	4,5,6,7,10				215	1.39
DICHLOROPROPANE, 1,2-	78-87-5	0.09	0.036	0.004	0.00001	47	X	2,700	1,3,4	13,100	15,000	X	96	0.10
DICHLOROPROPENE, 1,3-	542-75-6	0.03	0.1	0.02	0.000004	27	X	2,700	6	13,100	15,000	X	108	22.38
DICHLOROPROPIONIC ACID, 2,2-(DALAPON)	75-99-0	0.03				62	X	500,000	5	13,000	14,900	X	190	2.11
DICHLOROVOS	62-73-7	0.0005	0.29	0.0005	0.000083	50		10,000	2,4,5			X	234	
DICYCLOPENTADIENE	77-73-6	0.008		0.007		810	X	40	5	13,000	14,900		167	
DIELDRIN	60-57-1	0.00005	16		0.0046	11,000		0.17	4,5,6				385	0.12
DIETHANOLAMINE	111-42-2			0.003			4	1,000,000	2,3,9			X	269	
DIETHYL-PHTHALATE	84-66-2	0.8				81		1,080	4,5,6			X	298	2.25
DIFLUBENZURON	35367-38-5	0.02				1,000		0.2	2				201	
DISOPROPYL METHYLPHOSPHONATE	1445-75-6	0.08				10	X	160,000	9	13,000	14,900	X	190	
DIMETHOATE	60-51-5	0.0002				110		25,000	4				361	2.26
DIMETHOXYBENZIDINE, 3,3'-	119-90-4		[0.014] 1.6	[H] X		1,300		60	9				331	0.69
DIMETHURIN	70-38-2	0.3	4.6	C	0.0013	27,000		0.036	13				353	4.50
DIMETHYLAMINOAZOBENZENE, p-	60-11-7					1,000		13.6	7				335	
DIMETHYLAMINE, N,N-	121-69-7	0.002				180	X	1,200	5,6,7,9	13,000	14,900	X	192	0.69
DIMETHYLBENZIDINE, 3,3'-	119-93-7		11	[H]		22,000		1,300	10				300	18.07
DIMETHYL METHYLPHOSPHONATE	756-79-6	0.06	0.0017	P		5	X	1,000,000	14	13,000	14,900	X	181	
DIMETHYLPHENOL, 2,4-	105-67-9	0.02				130		7,869	1,4,6,7			X	211	18.07
DINITROBENZENE, 1,3-	99-65-0	0.0001				150		523	3,5,6,7				291	0.69
DINITROBENZENE, 2,4-	51-28-5	0.002				0.79		5,600	2,4,5,6,7				332	0.48
DINITROTOLUENE, 2,4-	121-14-2	0.002	0.31	C	0.000089	51		270	4,5,6				300	0.69
DINITROTOLUENE, 2,6-(2,6- DNT)	606-20-2	0.001				74		200	6				300	0.69
DINOSORB	88-85-7	0.001				120		50	5				223	1.03
DIOXANE, 1,4-	123-91-1	[0.1] 0.03	[0.011] 0.1	[3,6] 0.03	[0.0000071] 0.000006	7.8	X	1,000,000	5	13,000	14,900	X	101	0.69
DIPHENAMID	957-51-7	0.03				200		260	5				210	
DIPHENYLAMINE	122-39-4	0.025				190		300	3				302	4.50
DIPHENYLHYDRAZINE, 1,2-	122-66-7		0.8		0.00022	660		0.252	6				309	0.69
DIQUAT	85-00-7	0.0022				2.6		700,000	5				355	
DISULFOTON	298-04-4	0.00004				1,000		25	4,5,6			X	332	6.02
DITHIANE, 1,4-	505-29-3	0.01				22.7	[N] X	3,000	15	13,000	14,900		199	
DIURON	330-54-1	0.002				300		42	2,4,5				354	
ENDOSULFAN	115-29-7	0.006				2,000		0.48	4				401	2.78

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APPENDIX A
TABLE 5—PHYSICAL AND TOXICOLOGICAL PROPERTIES
A. Organic Regulated Substances

Regulated Substance	CAS	RD ₅₀ (mg/kg-d)	CSF ₀ (mg/kg-d) ⁻¹	BCI (mg/m ³)	IUR (µg/m ³) ⁻¹	Koc (L/KG)	10C ²	Aqueous Sol (mg/L)	Aqueous Sol Reference ¹	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K/yr ⁻¹)
ENDOSULFAN I (ALPHA)	959-98-8	0.006	S			2,000		0.5	6				401	
ENDOSULFAN II (BETA)	33213-65-9	0.006	S			2,300		0.45	6				390	
ENDOSULFAN SULFATE	1031-07-8	0.006	S			2,300		0.117	7,9				409	
ENDOTHALL	145-73-3	0.02	I			120		100,000	2				350	
ENDRIN	72-20-8	0.0003	I			11,000		4,6,7,9	243				243	
EPICHLOROHYDRIN	106-89-8	0.006	P	0.001	0.0000012	35	X	65,800	1,3,4	13,000	14,900	X	116	4.50
ETHEPHON	16672-87-0	0.005	I			2		1,240,000	12				201	
ETHION	563-12-2	0.0005	I			8,700		0.85	4,6,9,10			X	415	
ETHOXYETHANOL, 2-(EGEE)	110-80-5	0.041 0.09 P	[H] I P	0.2	I	12	X	1,000,000	2	13,200	15,000	X	136	4.50
ETHYL ACETATE	141-78-6	0.9	I			59	X	80,800	1,2,3,4,5,6	13,100	15,000	X	77	18.07
ETHYL ACRYLATE	140-88-5		H			110	X	15,000	1,2,6	13,100	15,000	X	100	18.07
ETHYL BENZENE	100-41-4	0.1	I	I		220	X	161	1,3,4	13,100	15,000	X	136	1.11
ETHYL DIETHYLAMINE	759-94-4	0.025	I			240	X	365	2	12,900	14,900	X	127	
DIPROPYLTHIOCARBAMATE, S-(DPTC)														
ETHYL ETHER	60-29-7	0.2	I			68	X	60,400	1	13,100	15,100	X	35	
ETHYL METHACRYLATE	97-63-2	0.09	H	0.3	P	22	X	4,635.5	9,10	13,100	15,000	X	117	
ETHYLENE	107-07-3	0.02	P			1	X	1,000,000	9	13,000	14,900	X	128	
CHLORHYDRIN														
ETHYLENE GLYCOL	107-21-1	2	I	0.4	C	4.4	X	1,000,000	2	13,100	15,100	X	198	10.54
ETHYLENE THIOUREA (ETU)	96-45-7	0.00008	I	0.23	C	0.23		20,000	2				347	4.50
ETHYL P-NITROPHENYL PHENYLPHOSPHORO THIOATE	2104-64-5	0.0001	I			1,200		3.1	4				215	
FENAMIPHOS	22224-92-6	0.00025	I			300		329	2				390	
FENVALERATE (PYDRIN)	51630-58-1	0.025	I			4,400		0.085	5			X	300	
FLUOMETURON	2164-17-2	0.013	I			68		97.5	2,5,6,8				318	
FLUORANTHENE	206-44-0	0.04	I			49,000		0.26	1,5,6				375	0.29
FLUORENE	86-73-7	0.04	I			7,900		1.9	1				298	2.11
FLUOROTRICHLOROMETHANE (FREON 11)	75-69-4	0.3	I	0.7	H	130	X	1,090	1,4,5,6	13,100	15,000	X	24	0.35
FONOFOS	944-22-9	0.002	I	0.0098	D	1,100		13	5,6,8	13,100	15,100	X	324	
FORMALDEHYDE	50-00-0	0.2	I	0.000013	I	3.6	X	55,000	1	13,100	15,100	X	-21	18.07
FORMIC ACID	64-18-6	[2] 0.9	[H] P	[0.003] 0.0003	[P] X	0.54	X	1,000,000	2	13,000	14,900	X	101	18.07
FOSETYL-AL	39146-24-8	3	I			310		120,000	2				464	
FURAN	110-00-9	0.001	I			130	X	10,000	1	13,100	15,000	X	31	2.25
FURFURAL	98-01-1	0.003	I	0.05	H	6.3	X	91,000	1,2,3	13,000	14,900	X	162	
GLYPHOSATE	1071-83-6	0.1	I			3,500		12,000	1,5,6				417	
HEPTACHLOR	76-44-8	0.0005	I			6,800		0.18	4,6,7				310	46.84
HEPTACHLOR EPOXIDE	1024-57-3	0.000013	I			21,000		0.311	4,6,7,9				341	0.23
HEXACHLOROBENZENE	118-74-1	0.0008	I	1.6	I	3,800		0.006	1,4,5				319	0.06
HEXACHLOROBUTADIENE	87-68-3	0.001	P	0.00022	I	4,700		2.89	4,5,6,7			X	215	0.69

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A. Organic Regulated Substances

Regulated Substance	CAS	RD ₅₀ (mg/kg-d)	CSF ₀ (mg/kg-d) ⁻¹	BC ₁ (mg/m ³)	IUR (µg/m ³) ⁻¹	Koc (L/KG)	10C ²	Aqueous Sol Sol (mg/L)	Aqueous Sol Reference ¹	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K/yr ⁻¹)
HEXACHLOROCYCLOPENTADIENE	77-47-4	0.006	I	0.0002	I	7.200		1.8	5.6,7			X	239	4.50
HEXACHLOROETHANE	67-72-1	0.001 0.0007	I [0.014] 0.04	0.03	I [0.000004] 0.00001	2.200 C	X	50	1	13,000	15,000		187	0.69
HEXANE	110-54-3	0.06	H	0.7	I	3.600	X	9.5	1.5,6	13,100	15,000	X	69	
HEXAZINONE	51235-04-2	0.033	I			41		330,000	1.2				408	
HEXYTHIAZOX (SAVEY)	78587-05-0	0.025	I			6.500		0.5	2				539	
HMX	2691-41-0	0.05	I			4		5	16				436	
HYDRAZINE/HYDRAZINE SULFATE	302-01-2			[0.0002] 0.00003	[C] P	0.0053	X	1,000,000	2	13,000	15,000	X	114	18.07
HYDROQUINONE	123-31-9	0.04	P			10		70,000	2,3,5				285	18.07
INDENO[1,2,3-CD]PYRENE	193-39-5					31,000,000		0.062	5				536	0.17
IPRODIONE	36734-19-7	0.04	I			1,100		13	2				545	
ISOBUTYL ALCOHOL	78-83-1	0.3	I			60	X	81,000	1.2,3,4,5	13,000	14,900	X	108	17.57
ISOPHORONE	78-59-1	0.2	I	2	C	31		12,000	2,4,5			X	215	4.5
ISOPROPYL METHYLPHOSPHONATE	1832-54-8	0.1	I			[1.64] 1.84		50,000	13			X	230	
KEPONE	143-50-0	0.0005 0.0003	[D] I			55,000		7.6	4				350	0.17
MALATHION	121-75-5	0.02	I			1,300		143	4			X	351	2.46
MALEIC HYDRAZIDE	128-33-1	0.5	I			2.8		6,000	4				260	
MANEB	12427-38-2	0.005	I			23		23	9,13				351	
MERPHOS OXIDE	78-48-8	0.00003	I			53,000		2.3	8,10,12			X	392	
METHACRYLONITRILE	126-98-7	0.0001	I	[0.0007] 0.03	[H] P	21	X	25,700	1	13,100	15,100	X	90	
METHAMIDOPHOS	10265-92-6	0.00005	I			5		2,000,000	5				223	
METHANOL	67-56-1	[0.5] 2	I I	[4] 20	[C] I	2.8	X	1,000,000	2	13,100	15,100	X	65	36.14
METHOXYL	16752-77-5	0.025	I			20		58,000	2				228	
METHOXYCHLOR	72-43-5	0.005	I			63,000		0.045	4,5,6				346	0.69
METHOXYETHANOL, 2-	109-86-4	[0.003] 0.005	P	0.02	I			1,000,000	2	13,100	15,000	X	124	4.50
METHYL ACETATE	79-20-9		I											
METHYL ACRYLATE	96-33-3	0.03	H	0.02	P	30	X	243,500	4,5,6	13,100	15,100	X	57	18.07
METHYL CHLORIDE	74-87-3	[0.004] 0.04	[M] I	0.09	I	55	X	52,000	1.2,5	13,100	15,100	X	70	4.50
METHYL ETHYL KETONE	78-93-3	0.6	I	5	I	6	X	6,180	1,2,3,4	13,100	15,000	X	80	2.57
METHYL HYDRAZINE	60-34-4	0.001	P	0.00002	X	17	X	275,000	1.2,3,4,5	13,100	15,100	X	88	5.27
METHYL ISOBUTYL KETONE	108-10-1	0.08	H	3	I			1,000,000	1,2,4,5	13,100	15,100	X	117	18.07
METHYL ISOCYANATE	624-83-9			0.001	C			100,000	7	13,000	15,000	X	40	
METHYL N-BUTYL KETONE (2-HEXANONE)	591-78-6	[0.04] 0.005	[N] I	[0.005] 0.03	[N] I	54	X	17,500	1	13,100	15,100	X	128	
METHYL METHACRYLATE	80-62-6	1.4	I	0.7	I	10	X	15,600	1	13,100	15,100	X	100	4.50

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METHYL METHANESULFONATE	66-27-3		0.099		0.000028	C		200,000	2			X	203	
METHYL PARATHION	298-00-0	0.00025						25	4,5,6				348	3.61
METHYL STYRENE (MIXED ISOMERS)	25013-15-4	0.006		0.04	H			89	9	13,100	15,000	X	163	
ETHER TERT-BUTYL METHYLCHLOROPHENOXY ACETIC ACID (MCPA)	1634-04-4		0.0018					45,000	1,2,4,6		15,100	X	55	0.69
METHYLENE BIS(2-,4,4'- CHLOROANILINE), 2-	91-57-6	0.004						1,000	5,6,8,9				287	1.39
METHYLSTYRENE, ALPHA	98-83-9	0.07						13,9	10				379	
METOLACHLOR	51218-45-2	0.15						25	1				241	
METIBUZIN	21087-64-9	0.025						560	9	13,100	15,100	X	165	
MONOCHLOROACETIC ACID	79-11-8	0.001						530	1,5	13,000	15,000	X	100	
NAPHTHALENE	91-20-3	0.02						1,200	17	13,000	14,900		189	
NAPHTHYLAMINE, 1-	134-32-7	0.004		0.003	I			858,000					218	0.98
NAPHTHYLAMINE, 2-	91-59-8	0.1						30	3				301	0.69
NAPROPAMIDE	15298-99-7	0.1						1,690	2				306	0.69
NITROANILINE, M-	99-09-2	0.003						6.4	6				399	
NITROANILINE, O-	88-74-4	0.003						70	2				306	
NITROANILINE, P-	100-01-6	0.004						100	3				284	
NITROBENZENE	98-95-3	0.002						1,200	6				332	
NITROGUANIDINE	556-88-7	0.1						800	2			X	211	0.64
NITROPHENOL, 2-	88-75-5	0.008						2,000	2				231	
NITROPHENOL, 4-	100-02-7	0.008						4,400	9				215	9.01
NITROPROPANE, 2-	79-46-9	0.008						2,100	1,2,3,4,5,6				279	25.81
NITROSODIETHYLAMINE, N-	55-18-5		150	0.02	I			16,700	1,3,4,5	13,000	14,900	X	120	0.69
NITROSODIMETHYLAMINE, N-	62-75-9	0.00008						93,000	10	13,000	14,900	X	176	0.69
NITROSO-DI-N- BUTYLAMINE, N-	924-16-3		5.4					1,000,000	2	13,000	14,900	X	154	0.69
NITROSODIEN- PROPYLAMINE, N-	621-64-7		7					1,200	[0.13] 9,10,11			X	235	0.69
NITROSODIPHENYLAMINE, N-	86-30-6	[0.02]						9,900	6			X	206	0.69
NITROSO-N-ETHYLUREA, N-	759-73-9		0.0049					35	1				269	3.72
OCTYL PHTHALATE, DI-N-	117-84-0	[0.04]						13,000	9			X	223	1734.48
OXAMYL (VYDATE)	23135-22-0	0.025						3	5				234	0.69
PARAQUAT	1910-42-5	0.0045						280,000	2				334	
PARATHION	56-38-2	0.006						660,000	6,8				352	
								20	2,4,5,6,7			X	375	

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APPENDIX A
TABLE 5—PHYSICAL AND TOXICOLOGICAL PROPERTIES
A. Organic Regulated Substances

Regulated Substance	CAS	RD50 (mg/kg-d)	CSFo (mg/kg-d) ¹	BC1 (mg/m ³)	IUR (µg/m ³) ¹	Koc (L/KG)	10C ²	Aqueous Sol Sol (mg/L)	Aqueous Sol Reference ¹	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K/yr ¹)
PCB-1016 (AROCLOR)	12674-11-2	0.00007	I		0.00002	I		0.25	5			X	325	
PCB-1221 (AROCLOR)	11104-28-2		I		0.00057	I		0.59	5			X	275	
PCB-1232 (AROCLOR)	11141-16-5		I		0.00057	I		1.45	7			X	290	
PCB-1242 (AROCLOR)	53469-21-9		I		0.00057	I		0.1	5			X	325	
PCB-1248 (AROCLOR)	12672-29-6		I		0.00057	I		0.054	7,9,11			X	340	
PCB-1254 (AROCLOR)	11097-69-1	0.00002	I		0.00057	I		0.057	5			X	365	
PCB-1260 (AROCLOR)	11096-82-5		I		0.00057	I		1,800,000	5			X	385	
PBULFATE	1114-71-2	0.05	H					92	5			X	303	
PENTACHLOROBENZENE	608-93-5	0.0008	I					0.74	15,6,7			X	277	0.37
PENTACHLORODIBENZENE	76-01-7		P					480	13	13,100		X	160	
PENTACHLORONITROBENZENE	82-68-8	0.003	I					0.44	4,6,8				328	0.36
PENTACHLOROPHENOL	87-86-5	[0.03] 0.005	I		0.0000046	C		14	1,2,4,5				310	0.17
PHENACETIN	62-44-2		C		0.0000063	C		763	2,3,9				341	4.50
PHENANTHRENE	85-01-8	0.3	S					1.1	1,4,5				341	0.63
PHENOL	108-95-2	0.3	I					84,300	1,2,3,4	13,000			182	36.14
PHENYL MERCAPTAN	108-98-5	[0.0001] 0.001	[H] P	0.2	C			653	5,9	13,000		X	170	
PHENYLENEDIAMINE, M-	108-45-2	0.006	I					351,000	3				286	4.50
PHENYLPHENOL, 2-	90-43-7		H					700	5				280	18.07
PHORATE	298-02-2	0.0002	H					50	2			X	319	
PHTHALIC ANHYDRIDE	85-44-9	2	I	0.02	C			6,170	2				285	13,490.40
PICLORAM	1918-02-1	0.07	I					430	2				373	
POLYCHLORINATED BIPHENYLS (AROCLORES) (PCBS)	1336-36-3		I		0.00057	I		0.0505	10,13				360	
PROMETON	1610-18-0	0.015	I					750	2,5				347	
PRONAMIDE	23950-58-5	0.075	I					15	2				321	
PROPANIL	709-98-8	0.005	I					225	2				355	
PROPANOL, 2- (ISOPROPYL ALCOHOL)	67-63-0			7	C			1,000,000	2	13,000		X	82	
PROPAZINE	139-40-2	0.02	I					8.6	1,5			X	318	
PROPHAM	122-42-9	0.02	I					250	5				257	
PROPYLBENZENE, N-	103-65-1	[0.04] 0.1	[N] X	I	X			52	6	13,100		X	159	
PROPYLENE OXIDE	75-56-9		I	0.03	I	0.0000037	I	405,000	1	13,100		X	34	
PYRENE	129-00-0	0.03	I					68,000	1				393	0.07
PYRIDINE	110-86-1	0.001	I					1,000,000	2	13,100		X	115	18.07
QUINOLINE	91-22-5		I					60,000	1,3,5			X	238	12.65
QUINALOFOF (ASSURE)	76578-14-8	0.009	I					580	2				220	
RDX	121-82-4	0.003	I		[0.0000031] [I]			59.9	1,9				353	
RESORCINOL	108-46-3		TE					717,000	2				280	
RONNEL	299-84-3	0.05	H					40	2				349	
SIMAZINE	122-34-9	0.005	I					5	5				225	

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APPENDIX A
TABLE 5—PHYSICAL AND TOXICOLOGICAL PROPERTIES
A. Organic Regulated Substances

Regulated Substance	CAS	RD ₅₀ (mg/kg-d)	CSF ₀ (mg/kg-d) ⁻¹	BCI (mg/m ³)	IUR (µg/m ³) ⁻¹	Koc (L/KG)	FOC ²	Aqueous Sol Sol (mg/L)	Aqueous Sol Reference ¹	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K/yr ⁻¹)
STYRENE	57-24-9	0.0003	I					143	5	13,100	15,100	X	270	4.50
STYRENE	100-42-5	0.2	I	I		280		300					145	1.20
TERTBUTYLURON	34014-18-1	0.07	I			620		2,500	2				394	
TETRAACIL	5902-51-2	0.013	I			53		710					396	
TETRAFLUOROETHYLENE	13071-79-9	0.000025	H			510		5	6			X	332	
TETRAFLUOROETHYLENE	95-94-3	0.0003	I			1,800		0.583	1,5,6,7				245	0.69
TETRAFLUOROETHYLENE	1,2,4,5-													
TETRAFLUOROETHYLENE	1746-01-6	0.000000	D	C	38	4,300,000		0.0000193	6				412	0.21
TETRAFLUOROETHYLENE	0011													
TETRAFLUOROETHYLENE	0.00000000													
TETRAFLUOROETHYLENE	007													
TETRAFLUOROETHYLENE	630-20-6	0.03	I											
TETRAFLUOROETHYLENE	1,1,1,2-													
TETRAFLUOROETHYLENE	79-34-5	0.004	P			980	X	1,100	1	13,000	14,600	X	131	3.79
TETRAFLUOROETHYLENE	1,1,2,2-	0.02	I			79	X	2,860	2	13,100	15,100	X	147	0.56
TETRAFLUOROETHYLENE	127-18-4	0.01	I	0.5	[N]	300	X	162	1,2,3,4,5	13,100	15,000	X	121	0.03
TETRAFLUOROETHYLENE	(PCE)	0.006	I	0.04	I	6,200		183	6				288	0.69
TETRAFLUOROETHYLENE	58-90-2	0.03	I			4,900		0.8	5			X	202	4.50
TETRAFLUOROETHYLENE	2,3,4,6-					550		25	2			X	349	
TETRAETHYL LEAD	78-00-2	0.000001	I											
TETRAETHYL DITHIOPYROP	3689-24-5	0.0005	I											
TETRAETHYL DITHIOPYROP	HOSEPHATE													
TETRAHYDROFURAN	109-99-9	0.2	[N]	0.3	[N]	43	X	300,000	1,6,7	13,100	15,100	X	66	
TETRAHYDROFURAN	0.9			2	I									
THIOFANOX	39196-18-4	0.0003	H			0.022		5,200	9				280	
THIOFANOX	137-26-8	0.005	I			1,000		30	4				339	
TOLUENE	108-88-3	0.08	I	5	I	130	X	532.4	1,2,3,4	13,100	15,000	X	111	9.01
TOLUIDINE, M-	108-44-1					140		15,030	6			X	203	
TOLUIDINE, O-	95-53-4					410		15,000	1,3,5			X	200	18.07
TOLUIDINE, P-	106-49-0					320		7410	1,2,3				200	
TOXAPHENE	8001-35-2					1,500		3	2,4,5				432	
TRIALATE	2303-17-5	0.013	I			2,000		4	5			X	343	
TRIBROMOMETHANE	75-25-2	0.02	I			130	X	3,050	1,2,3,4	13,100	15,100	X	149	0.69
TRIBROMOMETHANE	(BROMOFORM)					1,200	X	170	1	13,100	15,000	X	48	0.35
TRICHLORO-1,2,2-	76-13-1	30	I	30	H									
TRICHLOROETHANE, 1,1,2-														
TRICHLOROACETIC ACID	76-03-9	0.02	I	0.004	P	20	X	1,200,000	2,3,5,9			X	196	0.69
TRICHLOROACETIC ACID	120-82-1	0.01	I	0.002	P	1,500		44.4	1,4,6,7				213	
TRICHLOROACETIC ACID	108-70-3	0.006	M	0.004	S	3,100		5.8	5				208	
TRICHLOROACETIC ACID	0.002			0.002	S									
TRICHLOROACETIC ACID	0.002			0.002	S									
TRICHLOROETHANE, 1,1,1-	71-55-6	2	I	5	I	100	X	1,495	1,4,5,6	13,100	15,000	X	74	0.05
TRICHLOROETHANE, 1,1,2-	79-00-5	0.004	I	0.002	X	76	X	4,420	1	13,100	15,100	X	114	0.03

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APPENDIX A
TABLE 5—PHYSICAL AND TOXICOLOGICAL PROPERTIES
A. Organic Regulated Substances

Regulated Substance	CAS	RD ₅₀ (mg/kg-d)	CSF ₀ (mg/kg-d) ⁻¹	BC ₁ (mg/m ³)	IUR (µg/m ³) ⁻¹	K _{oc} (L/KG)	POC ²	Aqueous Sol Conc (mg/L)	Aqueous Sol Reference ¹	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K/yr ⁻¹)
TRICHLOROETHYLENE (TCE)	79-01-6	0.0005 0.0005	[0.01] I 0.05 I	[0.5] I 0.002 I	[0.0000017] I 0.000004 I	93	X	1,100	1	13,100	15,000	X	87	0.02
TRICHLOROPHENOL, 2,4,5-	95-95-4	0.1 I	I			2,400		1,000	1,2,4				246	0.14
TRICHLOROPHENOL, 2,4,6-	88-06-2	0.001 P	I		0.0000031 I	1,100		850	1,2,4,5				246	0.14
TRICHLOROPHENOXACETIC ACID, 2,4,5- (2,4,5-T)	93-76-5	0.01 I				43		278	2,4,5				279	1.39
TRICHLOROPHENOXYPROPI ONIC ACID, 2,4,5- (2,4,5- TP)(SILVEX)	93-72-1	0.008 I				1,700		140	2				353	
TRICHLOROPROPANE, 1,1,2-	598-77-6	0.005 I				24	X	2,700	14	13,100	15,000	X	117	
TRICHLOROPROPANE, 1,2,3-	96-18-4	[0.006] I 0.004	[7] I 1.60 I	[0.005] I 0.0003 I	[N] I	280	X	1,896	1,4,6	13,100	15,100	X	157	0.35
TRICHLOROPROPENE, 1,2,3-	96-19-5	[0.01] I 0.003 X		[0.001] I 0.0003 I	P	190	X	2,700	14	13,100	15,000	X	142	
TRIMETHYLAMINE	121-44-8	0.0075 I		0.007 I		51	X	55,000	1,4	13,100	15,100	X	90	
TRIFLURALIN	1582-09-8	0.0075 I	0.0077 I			720		4	2,5,6,7	13,100	15,000	X	382	
TRIMETHYLBENZENE, 1,3,4- (TRIMETHYLBENZENE, 1,2,4-)	95-63-6	[0.05] I 0.01 X		0.007 P		2,200	X	56	1	13,100	15,000	X	169	4.50
TRIMETHYLBENZENE, 1,3,5-	108-67-8	[0.05] I 0.01 X		[0.006] I		660	X	48.9	1	13,100	15,100	X	165	
TRINITROGLYCEROL (NITROGLYCERIN)	55-63-0	0.0001 P	0.017 P				X	1,800	2,3,5	13,000	15,000	X	190	18.07
TRINITROTOLUENE, 2,4,6-	118-96-7	0.0005 I	0.03 I			1		100	2				240	
VINYL ACETATE	108-05-4	1 H		0.2 I		2.8	X	20,000	1	13,200	15,000	X	73	
VINYL BROMIDE (BROMETHENE)	593-60-2			0.003 I	0.000032 H	150	X	4,180	12	13,100	15,000	X	16	0.09
VINYL CHLORIDE	75-01-4	0.003 I	[0.72] I 1.5 I	0.1 I	[0.0000044] I 0.000009 I	10	X	2,700	1	13,200	15,000	X	-13	0.09
WARFARIN	81-81-2	0.0003 I				910		17	4				356	4.50
XYLENES (TOTAL)	1330-20-7	0.2 I		0.1 I		350	X	175	13	13,100	15,000	X	140	0.69
ZINEB	12122-67-7	0.05 I				19		10	4				474	

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APPENDIX A
 TABLE 5—PHYSICAL AND TOXICOLOGICAL PROPERTIES
 B. Inorganic Regulated Substances

Regulated Substance	CAS	RfD (mg/kg-d)		CSF _o (mg/kg-d) ⁻¹	RfCi (mg/m ³) ⁻¹		IUR (µg/m ³) ⁻¹		Kd	
ALUMINUM	7429-90-5	1	P		0.005	P			9.9	
ANTIMONY	7440-36-0	0.0004	I						45	
ARSENIC	7440-38-2	0.0003	I	1.5	I	0.000015	C	0.0043	I	29
BARIUM AND COMPOUNDS	7440-39-3	0.2	I		0.0005	H			41	
BERYLLIUM	7440-41-7	0.002	I		0.00002	I	0.0024	I	790	
BORON AND COMPOUNDS	7440-42-8	0.2	I		0.02	H			3	
CADMIUM	7440-43-9	0.0005	I		0.00001	D	0.0018	I	75	
CHROMIUM III	16065-83-1	1.5	I						1,800,000	
CHROMIUM VI	18540-29-9	0.003	I		0.000008	I	0.084	I	19	
COBALT	7440-48-4	0.0003	P		0.000006	P	0.009	P	45	
COPPER	7440-50-8	0.037	H						430	
CYANIDE, FREE	57-12-5	[0.02] 0.0006	I						9.9	
FLUORIDE	16984-48-8	0.04	C		0.013	C				
IRON	7439-89-6	0.7	P						25	
LEAD	7439-92-1			0.0085	C		0.000012	C	900	
LITHIUM	7439-93-2	0.002	P						300	
MANGANESE	7439-96-5	0.047	I		0.00005	I			65	
MERCURY	7439-97-6	0.00016	C		0.0003	I			52	
MOLYBDENUM	7439-98-7	0.005	I						20	
NICKEL	7440-02-0	0.02	I		0.00009	D	0.00024	[Is] S	65	
NITRATE NITROGEN	14797-55-8	1.6	I							
NITRITE NITROGEN	14797-65-0	0.1	I							
PERCHLORATE	7790-98-9	0.0007	I						0	
SELENIUM	7782-49-2	0.005	I		0.02	C			5	
SILVER	7440-22-4	0.005	I						8.3	
STRONTIUM	7440-24-6	0.06	I							
THALLIUM	7440-28-0	[0.00007] 0.00001	[I] X						71	
TIN	7440-31-5	0.6	H						250	
VANADIUM	7440-62-2	[0.007] 0.00007	[H] P		0.0001	D			1,000	
ZINC	7440-66-6	0.3	I						62	

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I = Integrated Risk Information System (IRIS)

P = EPA Provisional Peer-Reviewed Toxicity Value

[s = surrogate] S = Surrogate

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APPENDIX A
TABLE 6—THRESHOLD OF REGULATION COMPOUNDS

REGULATED SUBSTANCE	CASRN	ALL AQUIFER GROUNDWATER MSC (µg/L)	Residential Soil MSC (mg/kg) 0-15 feet	Non-Residential Soil MSCs		Soil to Groundwater ¹ (mg/kg)
				Surface Soil (mg/kg) 0-2 feet	Subsurface Soil (mg/kg) 2-15 feet	
ACETIC ACID	64-19-7	5	100	100	100	0.5
ACETIC ANHYDRIDE	108-24-7	5	100	100	100	0.5
AMYL ACETATE, N-	628-63-7	5	100	100	100	0.5
AMYL ACETATE, SEC-	626-38-0	5	100	100	100	0.5
ANTU (ALPHA-NAPHTHYLTHIOUREA)	86-88-4	5	100	100	100	0.5
[AZINPHOS-METHYL (GUTHION)]	[86-50-0]	[5]	[100]	[100]	[100]	[0.5]
BHC, DELTA	319-86-8	5	100	100	100	0.5
[BIS(2-CHLOROETHOXY)METHANE]	[111-91-1]	[5]	[100]	[100]	[100]	[0.5]
BROMOPHENYL PHENYL ETHER, 4-	101-55-3	5	100	100	100	0.5
BUTYL ACETATE, N-	123-86-4	5	100	100	100	0.5
BUTYL ACETATE, SEC-	105-46-4	5	100	100	100	0.5
BUTYL ACETATE, TERT-	540-88-5	5	100	100	100	0.5
BUTYLAMINE, N-	109-73-9	5	100	100	100	0.5
CALCIUM CHROMATE	13765-19-0	5	100	100	100	0.5
CALCIUM CYANAMIDE	156-62-7	5	100	100	100	0.5
CARBONYL FLUORIDE	353-50-4	5	100	100	100	0.5
CATECHOL	120-80-9	5	100	100	100	0.5
[CHLOROACETALDEHYDE]	[107-20-0]	[5]	[100]	[100]	[100]	[0.5]
CHLOROETHYL VINYL ETHER, 2-	110-75-8	5	100	100	100	0.5
CHLOROPHENYL PHENYL ETHER, 4-	7005-72-3	5	100	100	100	0.5
DECABORANE	17702-41-9	5	100	100	100	0.5
[DIETHANOLAMINE]	[111-42-2]	[5]	[100]	[100]	[100]	[0.5]
DIETHYLAMINE	109-89-7	5	100	100	100	0.5
DIGLYCIDYL ETHER (DGE)	7/5/2238	5	100	100	100	0.5
DIMETHYL PHTHALATE	131-11-3	5	100	100	100	0.5
DIMETHYL SULFATE	77-78-1	5	100	100	100	0.5
DIMETHYLPHENETHYLAMINE, ALPHA, ALPHA-	122-09-8	5	100	100	100	0.5
DIOXATHION	78-34-2	5	100	100	100	0.5
ETHYL METHANESULFONATE	62-50-0	5	100	100	100	0.5
ETHYLAMINE	75-04-7	5	100	100	100	0.5
ETHYLENE CHLORHYDRIN	107-07-3	5	100	100	100	0.5
FAMPHUR	52-85-7	5	100	100	100	0.5

APPENDIX A
TABLE 6—THRESHOLD OF REGULATION COMPOUNDS

REGULATED SUBSTANCE	CASRN	ALL AQUIFER GROUNDWATER MSC (µg/L)	Residential Soil MSC (mg/kg) 0-15 feet	Non-Residential Soil MSCs		Soil to Groundwater ^l (mg/kg)
				Surface Soil (mg/kg) 0-2 feet	Subsurface Soil (mg/kg) 2-15 feet	
FENSULFOTHION	115-90-2	5	100	100	100	0.5
HEXACHLOROPROPENE	1888-71-7	5	100	100	100	0.5
IODOMETHANE	74-88-4	5	100	100	100	0.5
ISOAMYL ACETATE	123-92-2	5	100	100	100	0.5
ISOBUTYL ACETATE	110-19-0	5	100	100	100	0.5
ISODRIN	465-73-6	5	100	100	100	0.5
ISOPHORONE DIISOCYANATE	4098-71-9	5	100	100	100	0.5
ISOSAFROLE	120-58-1	5	100	100	100	0.5
LITHIUM HYDRIDE	7580-67-8	5	100	100	100	0.5
MANGANESE CYCLOPENTADIENYL TRICARBONYL	12079-65-1	5	100	100	100	0.5
[METHYL HYDRAZINE]	[60-34-4]	[5]	[100]	[100]	[100]	[0.5]
METHYL ISOAMYL KETONE	110-12-3	5	100	100	100	0.5
[METHYL ISOCYANATE]	[624-83-9]	[5]	[100]	[100]	[100]	[0.5]
METHYL MERCAPTAN	74-93-1	5	100	100	100	0.5
METHYLAMINE	74-89-5	5	100	100	100	0.5
MEVINPHOS	7786-34-7	5	100	100	100	0.5
MONOCROTOPHOS	6923-22-4	5	100	100	100	0.5
NAPHTHOQUINONE, 1,4-	130-15-4	5	100	100	100	0.5
NITRIC ACID	7697-37-2	5	100	100	100	0.5
NITROQUINOLINE-1-OXIDE, 4-	56-57-5	5	100	100	100	0.5
OSMIUM TETROXIDE	20816-12-0	5	100	100	100	0.5
PENTABORANE	19624-22-7	5	100	100	100	0.5
[PENTACHLOROETHANE]	[76-01-7]	[5]	[100]	[100]	[100]	[0.5]
PERCHLOROMETHYL MERCAPTAN	594-42-3	5	100	100	100	0.5
PICOLINE, 2-	109-06-8	5	100	100	100	0.5
PROPANOL, 1-	71-23-8	5	100	100	100	0.5
[PROPANOL, 2- (ISOPROPYLALCOHOL)]	[67-63-0]	[5]	[100]	[100]	[100]	[0.5]
PROPIONIC ACID	79-09-4	5	100	100	100	0.5
PROPIONITRILE (ETHYL CYANIDE)	107-12-0	5	100	100	100	0.5
PROPYLENE IMINE	75-55-8	5	100	100	100	0.5
PYRETHRUM	8003-34-7	5	100	100	100	0.5
QUINONE (p-BENZOQUINONE)	106-51-4	5	100	100	100	0.5

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TABLE 6—THRESHOLD OF REGULATION COMPOUNDS

REGULATED SUBSTANCE	CASRN	ALL AQUIFER GROUNDWATER MSC (µg/L)	Residential Soil MSC (mg/kg) 0-15 feet	Non-Residential Soil MSCs		Soil to Groundwater ¹ (mg/kg)
				Surface Soil (mg/kg) 0-2 feet	Subsurface Soil (mg/kg) 2-15 feet	
SELENIUM HEXAFLUORIDE	7783-79-1	5	100	100	100	0.5
SODIUM BISULFITE	7631-90-5	5	100	100	100	0.5
SULFIDE	18496-25-8	5	100	100	100	0.5
SULFUR MONOCHLORIDE	10025-67-9	5	100	100	100	0.5
SULFURIC ACID	7664-93-9	5	100	100	100	0.5
TELLURIUM	13494-80-9	5	100	100	100	0.5
TELLURIUM HEXAFLUORIDE	7783-80-4	5	100	100	100	0.5
TEPP (TETRAETHYL PYROPHOSPHATE)	107-49-3	5	100	100	100	0.5
TETRANITROMETHANE	509-14-8	5	100	100	100	0.5
THIONAZIN	297-97-2	5	100	100	100	0.5
TRIETHYLPHOSPHOROTHIOATE, O,O,O-	126-68-1	5	100	100	100	0.5

¹ The value in the table is 100 time the groundwater MSC.

The option to use the SPLP is also available to calculate the soil to groundwater numeric value. (See §250.310.)